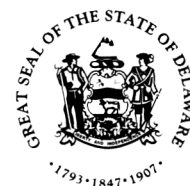
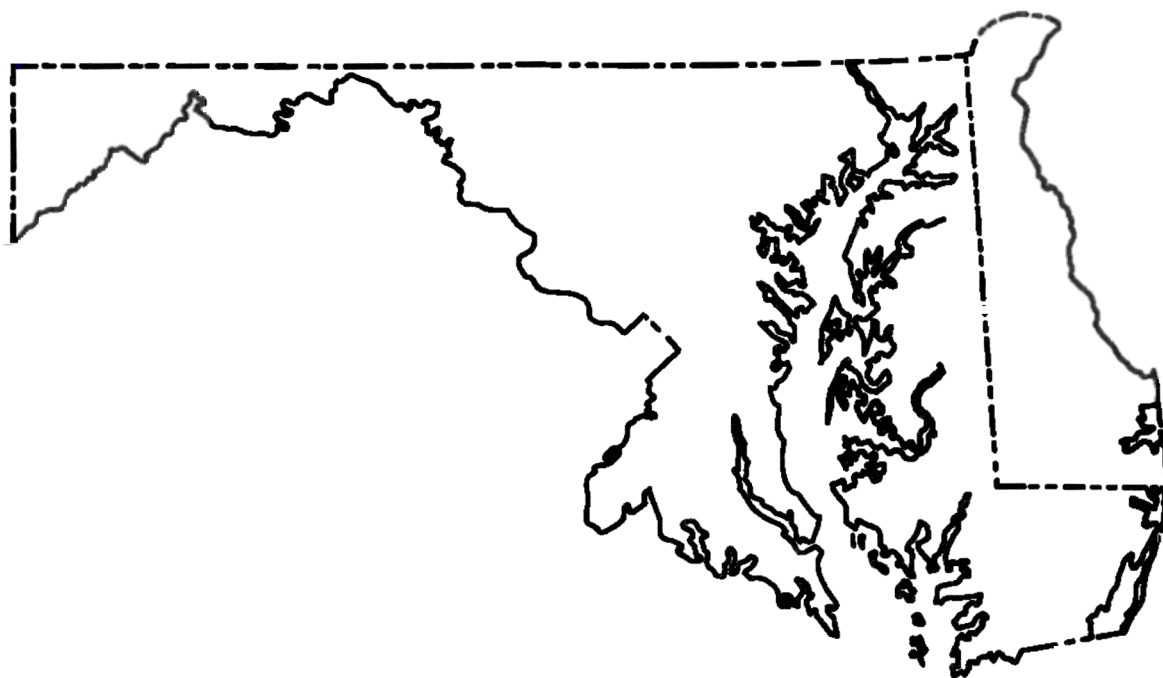


Water Resources Data Maryland and Delaware Water Year 2000

Volume 2. Ground-Water Data

By Michael J. Smigaj, Richard W. Saffer, Elizabeth H. Marchand

Water-Data Report MD-DE-00-2



UNITED STATES DEPARTMENT OF THE INTERIOR

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GROUND-WATER SPRING DISCHARGE

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MARYLAND:CECIL COUNTY

Spring 393459076045001 Local number CE Cc 40..... 54

FREDRICK COUNTY

Spring 392552077262201 Local number FR Dd 178..... 55

Spring 391846077370501 Local number FR Fb 12..... 56

HARFORD COUNTY

Spring 394153076325701 Local number HA Aa 9..... 57

WASHINGTON COUNTY

Spring 392836077442701 Local number WA Di 103..... 58

GROUND-WATER LEVELS

DELAWARE:KENT COUNTY

Well 390607075331501 Local number Jd42-03..... 59

Well 390224075391601 Local number Kc31-01..... 60

Well 385041075395601 Local number Mc51-01..... 61-62

Well 385310075331301 Local number Md22-01..... 63

Well 390733075264801 Local number DM102F..... 64-65

Well 390734075271402 Local number DM106D..... 66-67

Well 390744075270402 Local number DM110D..... 68-69

Well 390833075273601 Local number DM202D..... 70-71

Well 390827075290401 Local number DM204D..... 72-73

Well 390707075293401 Local number DM358D..... 74

Well 390747075292601 Local number DM378F..... 75-76

Well 390629075272701 Local number DM412D..... 77-78

Well 390742075300102 Local number GS4D..... 79-80

Well 390647075283301 Local number MW33D..... 81-82

Well 390703075272601 Local number MW48D..... 83-84

NEW CASTLE COUNTY

Well 393917075401601 Local number Db15-05..... 85

Well 393856075415602 Local number Db24-17..... 86

Well 393734075371103 Local number Db33-17..... 87

Well 393734075371102 Local number Db33-18..... 88

Well 393734075371101 Local number Db33-19..... 89

Well 393755075364801 Local number Dc34-05..... 90

Well 393755075364802 Local number Dc34-06..... 91

Well 393316075421601 Local number Eb23-22..... 92

Well 393316075421602 Local number Eb23-23..... 93

Well 393316075421603 Local number Eb23-24..... 94

Well 393316075421604 Local number Eb23-25..... 95

Well 391949075410701 Local number Hb14-01..... 96

SUSSEX COUNTY

Well 384639075353101 Local number Nc45-01..... 97

Well 384955075192801 Local number Ng11-01..... 98

Well 384558075083501 Local number Ni52-11..... 99

Well 384558075083502 Local number Ni52-12..... 100

Well 384438075234801 Local number Of12-13..... 101-102

Well 384401075224901 Local number Of13-03..... 103-104

Well 384406075224601 Local number Of13-08..... 105-106

Well 384343075230401 Local number Of22-04..... 107-108

Well 384341075230001 Local number Of22-11..... 109-110

Well 384333075222901 Local number Of23-03..... 111-112

Well 384341075223801 Local number Of23-05..... 113-114

Well 384345075225101 Local number Of23-11..... 115-116

Well 384038075110001 Local number Oh54-01..... 117

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Well 384258075063101 Local number Oi24-06..... 119

Well 383730075213501 Local number Pf24-02..... 120

Well 383730075213502 Local number Pf24-03..... 121

Well 383138075260201 Local number Qe44-01..... 122

Well 383050075105201 Local number Qh54-04..... 123

Well 383050075105202 Local number Qh54-05..... 124

Well 383050075105203 Local number Qh54-06..... 125

Well 383050075105204 Local number Qh54-07..... 126

Well 383210075035802 Local number Qj32-17..... 127

Well 382808075030501 Local number Rj22-05..... 128

Well 382808075030502 Local number Rj22-06..... 129

Well 382808075030503 Local number Rj22-07..... 130

Well 382808075030504 Local number Rj22-08..... 131

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Well 394024078273401	Local number AL Ah	1	132
Well 393009079025201	Local number AL Ca	19	133
Well 393148079010601	Local number AL Ca	20	134

ANNE ARUNDEL COUNTY

Well 391101076404001	Local number AA Ac	11	135
Well 391015076373501	Local number AA Ad	29	136
Well 391032076385902	Local number AA Ad	90	137-138
Well 391032076385904	Local number AA Ad	102	139
Well 391032076385906	Local number AA Ad	108	140
Well 391006076380101	Local number AA Ad	109	141-142
Well 391032076385907	Local number AA Ad	110	143
Well 390950076391101	Local number AA Bd	91	144
Well 390821076365401	Local number AA Bd	152	145-146
Well 390938076383701	Local number AA Bd	155	147-148
Well 390922076371001	Local number AA Bd	156	149-150
Well 390737076374401	Local number AA Bd	157	151-152
Well 390744076390001	Local number AA Bd	158	153
Well 390737076374402	Local number AA Bd	159	154
Well 390908076394402	Local number AA Bd	160	155-156
Well 390945076285601	Local number AA Bf	3	157
Well 390303076463201	Local number AA Cb	1	158-159
Well 390423076432001	Local number AA Cc	40	160
Well 390126076403001	Local number AA Cc	135	161-162
Well 390126076402901	Local number AA Cc	137	163-164
Well 390450076343402	Local number AA Ce	117	165-166
Well 390150076283003	Local number AA Cf	98	167
Well 390150076283002	Local number AA Cf	99	168
Well 390123076241602	Local number AA Cg	23	169-170
Well 390127076240301	Local number AA Cg	25	171
Well 385808076373502	Local number AA Dd	42	172
Well 385915076340401	Local number AA De	1	173
Well 385921076270701	Local number AA Df	19	174
Well 385916076270702	Local number AA Df	20	175-176
Well 385905076293601	Local number AA Df	79	177-178
Well 385623076274401	Local number AA Df	103	179
Well 385406076383901	Local number AA Ed	45	180
Well 384646076352401	Local number AA Fd	43	181

BALTIMORE CITY

Well 391617076322001	Local number 2S5E-	1	182
Well 391600076353301	Local number 3S2E-	5	183
Well 391556076315301	Local number 3S5E-	46	184
Well 391349076354501	Local number 5S2E-	24	185

BALTIMORE COUNTY

Well 393129076384201	Local number BA Cd	26	186
Well 393102076341801	Local number BA Ce	21	187
Well 392931076410301	Local number BA Dc	444	188-189
Well 392045076512501	Local number BA Ea	18	190-191
Well 392305076432001	Local number BA Ec	43	192
Well 391607076312901	Local number BA Fe	19	193
Well 391356076293501	Local number BA Gf	11	194

CALVERT COUNTY

Well 384333076394701	Local number CA Bb	27	195
Well 384333076394702	Local number CA Bb	28	196
Well 384114076320301	Local Number CA Bc	25	197
Well 383940076314801	Local number CA Cc	18	198
Well 383605076344601	Local number CA Cc	57	199
Well 383239076354201	Local number CA Db	47	200
Well 383216076351401	Local number CA Db	65	201
Well 383050076305501	Local number CA Dc	35	202
Well 382549076260101	Local number CA Ed	52	203-204
Well 382343076302901	Local number CA Fc	13	205
Well 382408076260401	Local number CA Fd	51	206
Well 382407076260301	Local number CA Fd	54	207
Well 382318076242401	Local number CA Fe	22	208
Well 381952076270901	Local number CA Gd	6	209

CAROLINE COUNTY

Well 390333075504501	Local number CO Bc	1	210
Well 390227075470201	Local number CO Bd	53	211
Well 385310075503601	Local number CO Dc	129	212
Well 385217075490601	Local number CO Dd	47	213

CARROLL COUNTY

Well 394008077005601	Local number CL Ad	47	214
Well 393638076510001	Local number CL Bf	1	215
Well 393754076512401	Local number CL Bf	184	216
Well 392259077052401	Local number CL Ec	75	217

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Well 393637075535002	Local number CE Be	74.....	219
Well 393615075475901	Local number CE Bf	81.....	220
Well 393537075492001	Local number CE Bf	82.....	221
Well 393432075593601	Local number CE Cd	51.....	222
Well 393432075593602	Local number CE Cd	52.....	223
Well 393216075564201	Local number CE Cd	53.....	224
Well 393433075544901	Local number CE Ce	54.....	225
Well 393241075500201	Local number CE Ce	55.....	226
Well 393026075523101	Local number CE Ce	56.....	227
Well 393209075541301	Local number CE Ce	82.....	228
Well 392536075593201	Local number CE Dd	81.....	229
Well 392403075521801	Local number CE Ee	29.....	230

CHARLES COUNTY

Well 383524077111802	Local number CH Bb	17.....	231-232
Well 383633077083001	Local number CH Bc	24.....	233
Well 383644077055501	Local number CH Bc	77.....	234-235
Well 383645077062402	Local number CH Bc	80.....	236-237
Well 383709077061002	Local number CH Bc	81.....	238-239
Well 383553077032401	Local number CH Bd	52.....	240
Well 383819076555501	Local number CH Be	43.....	241
Well 383706076575601	Local number CH Be	57.....	242
Well 383706076575604	Local number CH Be	60.....	243
Well 383853076532601	Local number CH Bf	101.....	244-245
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Well 383728076531701	Local number CH Bf	134.....	247
Well 383508076540701	Local number CH Bf	146.....	248
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Well 383637076545803	Local number CH Bf	157.....	251
Well 383732076531902	Local number CH Bf	158.....	252
Well 383746076482901	Local number CH Bg	12.....	253
Well 383422077114601	Local number CH Cb	7.....	254
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Well 383250076584001	Local number CH Ce	57.....	260
Well 382654077152501	Local number CH Da	18.....	261
Well 382654077152701	Local number CH Da	20.....	262
Well 382607077002601	Local number CH Dd	33.....	263
Well 382925077010101	Local number CH Dd	38.....	264
Well 382927076552301	Local number CH De	45.....	265
Well 382103076560201	Local number CH Ee	16.....	266
Well 382154076574801	Local number CH Ee	70.....	267-268
Well 382240076582801	Local number CH Ee	78.....	269-270

DORCHESTER COUNTY

Well 383708075503801	Local number DO Bg	59.....	271
Well 383151076080801	Local number DO Cd	1.....	272
Well 383340076041601	Local number DO Ce	5.....	273
Well 383408076042402	Local number DO Ce	15.....	274
Well 383346076030301	Local number DO Ce	21.....	275
Well 383256076035301	Local number DO Ce	85.....	276
Well 383401076032001	Local number DO Ce	88.....	277
Well 382800076180701	Local number DO Db	17.....	278
Well 382807076175801	Local number DO Db	18.....	279
Well 382847076190901	Local number DO Db	19.....	280
Well 382916075491702	Local number DO Dh	27.....	281-282

FREDERICK COUNTY

Well 394200077190701	Local number FR Af	27.....	283
Well 393733077274801	Local number FR Bd	96.....	284
Well 393156077135701	Local number FR Cg	1.....	285
Well 392517077190401	Local number FR Df	35.....	286
Well 392257077095601	Local number FR Eh	11.....	287

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GARRETT COUNTY

Well 394017078581701	Local number GA Ag	1	288
Well 393749079190301	Local number GA Bc	1	289
Well 392439079231801	Local number GA Eb	78	290
Well 391512079270901	Local number GA Fa	28	291
Well 391512079270902	Local number GA Fa	29	292
Well 391539079254601	Local number GA Fa	31	293
Well 391539079254602	Local number GA Fa	32	294
Well 391539079254603	Local number GA Fa	33	295
Well 391539079254604	Local number GA Fa	34	296
Well 391501079260001	Local number GA Fa	38	297
Well 391530079244401	Local number GA Fb	22	298
Well 391530079244403	Local number GA Fb	24	299
Well 391530079244404	Local number GA Fb	25	300
Well 391513079243602	Local number GA Fb	27	301
Well 391513079243605	Local number GA Fb	30	302
Well 391602079240301	Local number GA Fb	31	303
Well 391602079240302	Local number GA Fb	32	304
Well 391602079240304	Local number GA Fb	34	305
Well 391420079264901	Local number GA Ga	16	306

HARFORD COUNTY

Well 393902076160001	Local number HA Bd	31	307
Well 393158076302601	Local number HA Ca	23	308
Well 392529076180901	Local number HA Dd	89	309
Well 392721076150301	Local number HA Dd	91	310
Well 392721076150302	Local number HA Dd	92	311
Well 392921076100401	Local number HA De	66	312
Well 392606076145801	Local number HA De	181	313
Well 392606076145802	Local number HA De	182	314
Well 392606076145803	Local number HA De	183	315
Well 392914076110301	Local number HA De	195	316
Well 392819076130902	Local number HA De	198	317-318
Well 392435076203301	Local number HA Ec	11	319
Well 392408076210101	Local number HA Ec	46	320
Well 392343076161901	Local number HA Ed	24	321
Well 392455076192101	Local number HA Ed	47	322
Well 392455076192102	Local number HA Ed	48	323
Well 392455076192103	Local number HA Ed	49	324

HOWARD COUNTY

Well 391910076565701	Local number HO Bd	1	325
Well 391445076555101	Local number HO Cd	79	326
Well 391001076540001	Local number HO Ce	38	327

KENT COUNTY

Well 392007076075501	Local number KE Ac	20	328
Well 391650076050402	Local number KE Bc	185	329
Well 391650076050403	Local number KE Bc	186	330
Well 391823075594701	Local number KE Be	43	331
Well 391815075472101	Local number KE Bg	33	332
Well 391815075472102	Local number KE Bg	34	333
Well 391400076101401	Local number KE Cb	36	334
Well 391124076101001	Local number KE Cb	97	335
Well 391124076101002	Local number KE Cb	98	336
Well 391124076101003	Local number KE Cb	99	337
Well 391124076101004	Local number KE Cb	100	338
Well 391251076142201	Local number KE Cb	101	339
Well 391124076101005	Local number KE Cb	103	340
Well 391432076015501	Local number KE Cd	44	341
Well 390837076140401	Local number KE Db	40	342
Well 390626076083301	Local number KE Dc	89	343
Well 390626076083302	Local number KE Dc	91	344

MONTGOMERY COUNTY

Well 391142077280601	Local number MO Cb	26	345
Well 391314077224201	Local number MO Cc	14	346
Well 390802077283801	Local number MO Db	68	347-348
Well 390917077244401	Local number MO Dc	59	349
Well 390451077245901	Local number MO Ec	10	350
Well 390434076573002	Local number MO Eh	20	351

GROUND-WATER LEVELS-Continued

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MARYLAND-ContinuedPRINCE GEORGES COUNTY

Well 390151076561501	Local number PG Bc	16	352
Well 385130076465501	Local number PG De	21	353
Well 385152076431301	Local number PG Df	2	354
Well 384423077004501	Local number PG Fb	36	355
Well 384230076555501	Local number PG Fc	17	356
Well 384131076533301	Local number PG Fd	41	357
Well 383957076520601	Local number PG Gd	5	358-359
Well 383228076410601	Local number PG Hf	35	360
Well 383348076411301	Local number PG Hf	40	361-362
Well 383348076411302	Local number PG Hf	41	363-364
Well 383348076411303	Local number PG Hf	42	365
Well 383250076405304	Local number PG Hf	44	366-367

QUEEN ANNES COUNTY

Well 391203076024301	Local number QA Be	15	368
Well 391203076024302	Local number QA Be	16	369
Well 391203076024303	Local number QA Be	17	370
Well 390841075515201	Local number QA Cg	1	371
Well 390201076182701	Local number QA Db	30	372
Well 390201076182703	Local number QA Db	32	373
Well 390023076174301	Local number QA Db	34	374
Well 390119076191001	Local number QA Db	35	375
Well 390023076174302	Local number QA Db	37	376
Well 390251076034401	Local number QA De	27	377
Well 385718076211501	Local number QA Ea	77	378
Well 385718076211502	Local number QA Ea	78	379
Well 385757076200101	Local number QA Ea	79	380
Well 385757076200102	Local number QA Ea	80	381
Well 385718076211503	Local number QA Ea	81	382
Well 385751076171603	Local number QA Eb	110	383
Well 385751076171601	Local number QA Eb	111	384
Well 385751076171602	Local number QA Eb	112	385
Well 385748076172001	Local number QA Eb	113	386
Well 385843076155302	Local number QA Eb	155	387
Well 385852076195201	Local number QA Eb	156	388
Well 385852076195202	Local number QA Eb	157	389
Well 385756076105301	Local number QA Ec	1	390
Well 385534075573601	Local number QA Ef	29	391
Well 385429076120201	Local number QA Fc	7	392

ST. MARYS COUNTY

Well 382838076470101	Local number SM Bb	15	393
Well 382838076470102	Local number SM Bb	22	394
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Well 381616076364702	Local number SM Dd	49	396
Well 381807076380001	Local number SM Dd	50	397
Well 381616076364703	Local number SM Dd	62	398
Well 381615076364701	Local number SM Dd	63	399
Well 381719076264801	Local number SM Df	14	400-401
Well 381604076271701	Local number SM Df	61	402-403
Well 381841076284401	Local number SM Df	66	404
Well 381527076283101	Local number SM Df	71	405
Well 381548076272102	Local number SM Df	84	406-407
Well 381813076232501	Local number SM Dg	14	408-409
Well 381810076244601	Local number SM Dg	21	410-411
Well 381213076222801	Local number SM Eg	27	412
Well 380834076303401	Local number SM Fe	30	413
Well 380834076303402	Local number SM Fe	31	414
Well 380724076251901	Local number SM Ff	36	415
Well 380821076255501	Local number SM Ff	64	416-417
Well 380711076222201	Local number SM Fg	45	418

SOMERSET COUNTY

Well 381156075412501	Local number SO Be	42	419
Well 380927075423701	Local number SO Ce	42	420-421
Well 380616075380701	Local number SO Cf	2	422

TALBOT COUNTY

Well 385242075593101	Local number TA Bf	73	423
Well 385242075593102	Local number TA Bf	74	424
Well 384923076100601	Local number TA Cc	35	425
Well 384514076103701	Local number TA Cc	36	426
Well 384709076050301	Local number TA Cd	57	427
Well 384643076043801	Local number TA Ce	7	428

WASHINGTON COUNTY

Well 394154078103501	Local number WA Ac	1	429
Well 393638078001301	Local number WA Be	2	430
Well 393851077343001	Local number WA Bk	25	431
Well 393414077461801	Local number WA Ch	106	432
Well 393402077434201	Local number WA Ci	82	433
Well 392904077371501	Local number WA Dj	2	434

GROUND-WATER LEVELS-Continued

Page

MARYLAND--Continued:

WICOMICO COUNTY

Well 382150075352101	Local number	WI Ce	13.....	435
Well 382404075355401	Local number	WI Ce	204.....	436
Well 382037075310801	Local number	WI Cf	3.....	437
Well 382429075344501	Local number	WI Cf	147.....	438
Well 382329075263701	Local number	WI Cg	20.....	439

WORCESTER COUNTY

Well 382621075174201	Local number	WO Ae	23.....	440
Well 382621075174202	Local number	WO Ae	24.....	441
Well 382621075174203	Local number	WO Ae	25.....	442
Well 382632075031801	Local number	WO Ah	6.....	443
Well 382635075030601	Local number	WO Ah	35.....	444
Well 382635075030602	Local number	WO Ah	36.....	445
Well 382635075030603	Local number	WO Ah	37.....	446-447
Well 382022075072401	Local number	WO Bg	1.....	448
Well 382359075094501	Local number	WO Bg	15.....	449
Well 382358075094501	Local number	WO Bg	45.....	450
Well 382358075094502	Local number	WO Bg	46.....	451
Well 382325075063301	Local number	WO Bg	47.....	452-453
Well 382325075063302	Local number	WO Bg	48.....	454-455
Well 382038075065901	Local number	WO Bg	49.....	456-457
Well 382215075041801	Local number	WO Bh	31.....	458-459
Well 382443075033501	Local number	WO Bh	34.....	460-461
Well 382215075041901	Local number	WO Bh	84.....	462
Well 382215075041902	Local number	WO Bh	85.....	463
Well 382215075041903	Local number	WO Bh	89.....	464-465
Well 382127075043802	Local number	WO Bh	98.....	466-467
Well 381939075052101	Local number	WO Cg	72.....	468
Well 381037075234301	Local number	WO Dd	7.....	469
Well 381457075174101	Local number	WO De	36.....	470
Well 381427075081102	Local number	WO Dg	21.....	471
Well 380408075335701	Local number	WO Fb	2.....	472

QUALITY OF GROUND WATER

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WATER-QUALITY DATA, WATER YEAR 2000

DELAWARE:KENT COUNTY

Well 391060075282801	Local well number	Ie42-03	474-479
Well 385522075251802	Local well number	Le55-09	474-479
Well 385448075341801	Local well number	Md11-04	474-479

NEWCASTLE COUNTY

Well 393928075440202	Local well number	Db11-27	480-485
Well 393916075440802	Local well number	Db11-28	480-485
Well 393852075430901	Local well number	Db11-48	480-485
Well 393739075394202	Local well number	Dc31-15	480-485
Well 394060075334601	Local well number	Dd52-15	480-485

SUSSEX COUNTY

Well 383705075192801	Local well number	Forest Hills 1	486-510
Well 383101075141101	Local well number	Frankford 2	486-510
Well 384139075230101	Local well number	Georgetown 1	486-510
Well 384818075354101	Local well number	Nc25-37	486-510
Well 384819075190101	Local well number	Ng21-03	486-510
Well 384856075151101	Local well number	Ng25-04	486-510
Well 384526075091601	Local well number	Ni51-32	486-510
Well 384428075355701	Local well number	Oc15-11	486-510
Well 384345075225101	Local well number	Of23-11	486-510
Well 384345075225102	Local well number	Of23-12	486-510
Well 384345075225103	Local well number	Of23-13	486-510
Well 384322075051101	Local well number	Oi25-18	486-510
Well 384926075170401	Local well number	PH-DG-1	486-510
Well 384931075170401	Local well number	PH-DG-2	486-510
Well 384932075170201	Local well number	PH-DG-3	486-510
Well 384926075170501	Local well number	PH-DG-5	486-510
Well 384925075170601	Local well number	PH-DZ	486-510
Well 384923075170901	Local well number	PH-UG	486-510
Well 383801075375701	Local well number	Pc33-44	486-510
Well 383815075271001	Local well number	Pe23-185	486-510
Well 383929075123105	Local well number	Ph13-07	486-510
Well 383929075123103	Local well number	Ph13-13	486-510
Well 383929075123102	Local well number	Ph13-14	486-510
Well 383929075123101	Local well number	Ph13-15	486-510
Well 383907075124103	Local well number	Ph13-16	486-510
Well 383929075130104	Local well number	Ph13-28	486-510
Well 383932075112601	Local well number	Ph14-13	486-510
Well 383736075092801	Local well number	Pi31-02	486-510
Well 383311075344401	Local well number	Qd21-12	486-510
Well 383000075326001	Local well number	Qd52-09	486-510
Well 382805075330301	Local well number	Rd22-01	486-510
Well 382830075073601	Local well number	Ri23-04	486-510
Well 382745075234301	Streambed piezometer number	wibypla	486-510
Well 382745075234302	Streambed piezometer number	wibyplb	486-510
Well 382745075234304	Streambed piezometer number	wibypld	486-510

MARYLAND:ALLEGHENY COUNTY

Well 394143078421301	Local well number	AL Ae 36	511-512
Well 394311078245501	Local well number	AL Ai 26	511-512
Well 393342078570901	Local well number	AL Cb 8	511-512
Well 393438078420601	Local well number	AL Ce 4	511-512

ANNE ARUNDEL COUNTY

Well 385531076391301	Local well number	AA Dd 61	513-515
Well 385009076353601	Local well number	AA Ed 58	513-515
Well 385157076370001	Local well number	AA Ed 59	513-515
Well 385353076350201	Local well number	AA Ed 60	513-515
Well 385232076394601	Local well number	AA Ed 62	513-515
Well 385101076312301	Local well number	AA Ee 93	513-515
Well 385039076330901	Local well number	AA Ee 95	513-515
Well 385054076293901	Local well number	AA Ef 40	513-515
Well 384703076421001	Local well number	AA Fc 32	513-515
Well 384652076372101	Local well number	AA Fd 58	513-515
Well 384910076383301	Local well number	AA Fd 60	513-515
Well 384717076325701	Local well number	AA Fe 57	513-515
Well 384958076315701	Local well number	AA Fe 59	513-515
Well 384917076305802	Local well number	AA Fe 60	513-515
Well 384736076342801	Local well number	AA Fe 63	513-515
Well 384730076314101	Local well number	AA Fe 71	513-515
Well 384859076300801	Local well number	AA Fe 82	513-515
Well 384644076331201	Local well number	AA Fe 92	513-515
Well 384644076331202	Local well number	AA Fe 93	513-515
Well 384338076315401	Local well number	AA Ge 15	513-515

QUALITY OF GROUND WATER--Continued

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MARYLAND--Continued:

BALTIMORE COUNTY

Well 394249076391401	Local well number	BA Ad 150	516-520
Well 393539076395701	Local well number	BA Bc 276	516-520
Well 393757076364501	Local well number	BA Be 39	516-520
Well 393243076481901	Local well number	BA Cb 97	516-520
Well 393010076500501	Local well number	BA Cb 145	516-520
Well 393115076422001	Local well number	BA Cc 167	516-520
Well 393315076394001	Local well number	BA Cd 242	516-520
Well 393315076394002	Local well number	BA Cd 243	516-520
Well 393443076365201	Local well number	BA Cd 244	516-520
Well 393015076343001	Local well number	BA Ce 317	516-520
Well 393030076323001	Local well number	BA Ce 318	516-520
Well 392605076514501	Local well number	BA Da 54	516-520
Well 392504076435601	Local well number	BA Dc 454	516-520
Well 392508076433901	Local well number	BA Dc 455	516-520
Well 392509076433601	Local well number	BA Dc 456	516-520
Well 392628076425301	Local well number	BA Dc 457	516-520
Well 392948076411501	Local well number	BA Dc 458	516-520
Well 392924076404701	Local well number	BA Dc 459	516-520
Well 392942076412501	Local well number	BA Dc 460	516-520
Well 392815076423001	Local well number	BA Dc 461	516-520
Well 392810076320501	Local well number	BA De 643	516-520
Well 392748076321101	Local well number	BA De 644	516-520
Well 392556076303001	Local well number	BA De 645	516-520
Well 392607076240601	Local well number	BA Dg 118	516-520
Well 392657076230301	Local well number	BA Dg 119	516-520
Well 392632076245301	Local well number	BA Dg 120	516-520
Well 392341076521801	Local well number	BA Ea 92	516-520
Well 392347076513701	Local well number	BA Ea 96	516-520
Well 392052076464801	Local well number	BA Eb 292	516-520
Well 391507076455601	Local well number	BA Fb 82	516-520

CHARLES COUNTY

Well 383052077022701	Local well number	CH Cd 48	521
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GARRETT COUNTY

Well 393907079165801	Local well number	GA Bc 51	522-523
Well 393049079175401	Local well number	GA Cc 56	522-523
Well 392711079271201	Local well number	GA Da 29	522-523
Well 392420079221701	Local well number	GA Eb 72	522-523

HARFORD COUNTY

Well 394037076241501	Local well number	HA Ac 57	524-528
Well 394208076221001	Local well number	HA Ac 58	524-528
Well 394114076164401	Local well number	HA Ad 16	524-528
Well 393735076273001	Local well number	HA Bb 105	524-528
Well 393610076291401	Local well number	HA Bb 106	524-528
Well 393609076284901	Local well number	HA Bb 107	524-528
Well 393812076244501	Local well number	HA Bc 34	524-528
Well 393855076171601	Local well number	HA Bd 82	524-528
Well 393600076082101	Local well number	HA Bf 19	524-528
Well 393637076094901	Local well number	HA Bf 20	524-528
Well 393458076303601	Local well number	HA Ca 29	524-528
Well 393130076243001	Local well number	HA Cb 286	524-528
Well 393235076270501	Local well number	HA Cb 287	524-528
Well 393150076271001	Local well number	HA Cb 288	524-528
Well 393237076281601	Local well number	HA Cb 289	524-528
Well 393015076221001	Local well number	HA Cc 196	524-528
Well 393115076251001	Local well number	HA Cc 197	524-528
Well 393442076203901	Local well number	HA Cc 198	524-528
Well 393011076240701	Local well number	HA Cc 199	524-528
Well 393145076262901	Local well number	HA Cc 200	524-528
Well 393005076161001	Local well number	HA Cd 199	524-528
Well 393321076172001	Local well number	HA Cd 200	524-528
Well 393149076174801	Local well number	HA Cd 201	524-528
Well 393339076144401	Local well number	HA Ce 119	524-528
Well 393338076134801	Local well number	HA Ce 120	524-528
Well 393008076065301	Local well number	HA Cf 171	524-528
Well 393109076063801	Local well number	HA Cf 176	524-528
Well 393432076085801	Local well number	HA Cf 178	524-528
Well 392744076232901	Local well number	HA Dc 121	524-528
Well 392911076232501	Local well number	HA Dc 122	524-528
Well 392815076244501	Local well number	HA Dc 123	524-528
Well 392514076205601	Local well number	HA Dd 108	524-528
Well 392914076144401	Local well number	HA De 297	524-528
Well 393001076160501	Local well number	HA De 298	524-528
Well 393000076123001	Local well number	HA De 299	524-528

QUALITY OF GROUND WATER--Continued

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MARYLAND--ContinuedMONTGOMERY COUNTY

Well 391017077072701	Local well number	MO Cf	29	529
Well 391142077081701	Local well number	MO Cf	30	529
Well 391025077054701	Local well number	MO Cf	31	529
Well 390925077085001	Local well number	MO Df	30	529
Well 390917077085301	Local well number	MO Df	31	529
Well 390848077071501	Local well number	MO Df	32	529
Well 390830077063901	Local well number	MO Df	33	529
Well 390943077073201	Local well number	MO Df	35	529

QUEEN ANNES COUNTY

Well 390055076184501	Local well number	QA Db	14	530-532
Well 390022076191801	Local well number	QA Db	15	530-532
Well 390059076191801	Local well number	QA Db	17	530-532
Well 390033076184501	Local well number	QA Db	23	530-532
Well 390117076191301	Local well number	QA Db	27	530-532
Well 390201076182701	Local well number	QA Db	30	530-532
Well 390201076182703	Local well number	QA Db	32	530-532
Well 390023076174301	Local well number	QA Db	34	530-532
Well 390119076191001	Local well number	QA Db	35	530-532
Well 390023076174302	Local well number	QA Db	37	530-532
Well 385825076202901	Local well number	QA Ea	39	530-532
Well 385820076202501	Local well number	QA Ea	42	530-532
Well 385554076213801	Local well number	QA Ea	45	530-532
Well 385825076201201	Local well number	QA Ea	48	530-532
Well 385505076215001	Local well number	QA Ea	59	530-532
Well 385701076212501	Local well number	QA Ea	60	530-532
Well 385812076202801	Local well number	QA Ea	61	530-532
Well 385718076211501	Local well number	QA Ea	77	530-532
Well 385718076211502	Local well number	QA Ea	78	530-532
Well 385757076200101	Local well number	QA Ea	79	530-532
Well 385757076200102	Local well number	QA Ea	80	530-532
Well 385718076211503	Local well number	QA Ea	81	530-532
Well 385705076212002	Local well number	QA Ea	82	530-532
Well 385705076212001	Local well number	QA Ea	83	530-532
Well 385843076155302	Local well number	QA Eb	155	530-532
Well 385852076195201	Local well number	QA Eb	156	530-532
Well 385852076195202	Local well number	QA Eb	157	530-532
Well 385024076222501	Local well number	QA Fa	54	530-532
Well 385133076201201	Local well number	QA Fa	58	530-532
Well 385254076201901	Local well number	QA Fa	60	530-532
Well 385434076215601	Local well number	QA Fa	63	530-532
Well 385454076214901	Local well number	QA Fa	64	530-532
Well 385236076215201	Local well number	QA Fa	66	530-532
Well 385023076222201	Local well number	QA Fa	67	530-532
Well 385254076201301	Local well number	QA Fa	72	530-532
Well 385227076215401	Local well number	QA Fa	74	530-532
Well 385155076200401	Local well number	QA Fa	75	530-532

ST. MARYS COUNTY

Well 381721076264801	Local well number	SM Df	100	533
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WASHINGTON COUNTY

Well 394223078182101	Local well number	WA Ab	3	534-536
Well 394149078052801	Local well number	WA Ad	101	534-536
Well 394301077423601	Local well number	WA Ai	56	534-536
Well 393512077451701	Local well number	WA Bh	73	534-536
Well 393625077375501	Local well number	WA Bj	141	534-536

WICOMICO COUNTY

Well 382554075344701	Local well number	WI Bf	81	537-543
Well 382543075212201	Local well number	WI Bh	4	537-543
Well 382543075212202	Local well number	WI Bh	5	537-543
Well 382609075210501	Local well number	WI Bh	8	537-543
Well 382609075210502	Local well number	WI Bh	9	537-543
Well 382549075204101	Local well number	WI Bh	12	537-543
Well 382237075371401	Local well number	WI Ce	294	537-543
Well 382224075311901	Local well number	WI Cf	210	537-543
Well 382451075211902	Local well number	WI Ch	55	537-543
Well 382452075202901	Local well number	WI Ch	56	537-543
Well 382452075202902	Local well number	WI Ch	57	537-543
Well 382704075224101	Streambed piezometer number	wibxp2a		537-543
Well 382704075224103	Streambed piezometer number	wibxp2c		537-543
Well 382704075224104	Streambed piezometer number	wibxp2d		537-543
Well 382611075210604	Streambed piezometer number	wibzpld		537-543

QUALITY OF GROUND WATER--Continued

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MARYLAND--Continued:WORCESTER COUNTY

Well 382443075033501	Local well number	WO Bh	34	544-549
Well 382215075041901	Local well number	WO Bh	84	544-549
Well 382635075030602	Local well number	WO Ah	36	544-549
Well 382638075033001	Local well number	WO Ah	38	544-549
Well 382007075063801	Local well number	WO Bg	60	544-549
Well 382214075041901	Local well number	WO Bh	28	544-549
Well 382216075041201	Local well number	WO Bh	29	544-549
Well 382215075041902	Local well number	WO Bh	85	544-549
Well 382215075041903	Local well number	WO Bh	89	544-549
Well 382127075043802	Local well number	WO Bh	98	544-549
Well 382127075043804	Local well number	WO Bh	101	544-549
Well 381713075123501	Local well number	WO Cf	56	544-549
Well 381713075123502	Local well number	WO Cf	57	544-549
Well 381713075123503	Local well number	WO Cf	58	544-549
Well 381640075120801	Local well number	WO Cf	59	544-549
Well 381938075052001	Local well number	WO Cg	33	544-549
Well 381940075051901	Local well number	WO Cg	34	544-549
Well 381526075095001	Local well number	WO Cg	84	544-549
Well 381526075095002	Local well number	WO Cg	85	544-549
Well 381526075095003	Local well number	WO Cg	86	544-549
Well 381953075051401	Local well number	WO Cg	87	544-549
Well 381428075081401	Local well number	WO Dg	23	544-549
Well 381428075081403	Local well number	WO Dg	25	544-549
Well 380959075171101	Local well number	WO Ee	18	544-549
Well 380959075171102	Local well number	WO Ee	19	544-549
Well 380959075171103	Local well number	WO Ee	20	544-549
Well 380930075180601	Local well number	WO Ee	21	544-549
Well 380930075180602	Local well number	WO Ee	22	544-549
Well 380942075185501	Local well number	WO Ee	23	544-549
Well 380942075185502	Local well number	WO Ee	24	544-549
Well 380942075185503	Local well number	WO Ee	25	544-549
Well 380837075112201	Local well number	WO Ef	26	544-549
Well 380837075112202	Local well number	WO Ef	27	544-549
Well 380129075253701	Local well number	WO Fc	50	544-549
Well 380138075260102	Local well number	WO Fc	53	544-549
Well 380215075271701	Local well number	WO Fc	55	544-549
Well 380215075271702	Local well number	WO Fc	56	544-549
Well 380255075274601	Local well number	WO Fc	57	544-549
Well 380255075274602	Local well number	WO Fc	58	544-549

VOLUME 2. GROUND-WATER DATA

INTRODUCTION

The Water Resources Division of the U.S. Geological Survey, in cooperation with State agencies, obtains a large amount of data pertaining to the water resources of Maryland and Delaware each water year. These data, accumulated during many water years, constitute a valuable data base for developing an improved understanding of the water resources of the State. To make these data readily available to interested parties outside the U.S. Geological Survey, the data are published annually in this report series entitled **"Water Resources Data - Maryland and Delaware."**

This series of Water Resources Data reports for Maryland and Delaware began with the 1961 water year report that contained only data relating to the quantities of surface water. For the 1964 water year, a similar report was introduced that contained only data relating to surface, and ground-water quality. Beginning with the 1975 water year, the report format was changed to present, in one volume, data on quantities of surface water, quality of surface and ground water, and ground-water levels. In the 1989 water year, the report format was changed to two volumes. Both volumes contained data on quantities of surface water, quality of surface and ground water, and ground-water levels. Volume 1 contained data on the Atlantic Slope Basins (Delaware River through Patuxent River Basins) and Volume 2 contained data on the Monongahela and Potomac River Basins. Beginning with the 1991 water year, Volume 1 contains all information on quantities of surface water and surface-water-quality data and Volume 2 contains ground-water levels and ground-water-quality data.

This report is Volume 2 in our 2000 water year Water Resources Data report series and includes records of water levels, and water quality of ground-water wells and springs. It contains discharge data records for 5 springs, water levels at 347 observation wells, and water-quality analyses for 225 wells, 13 piezometers, and 4 springs. Locations for ground-water-level wells are shown on figures 5 and 6. The location of the ground-water-quality sites are shown on figure 7. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Maryland and Delaware.

Prior to introduction of this series and for several water years concurrent with it, water resources data for Maryland and Delaware were published in U.S. Geological Survey Water-Supply Papers. Data on water levels for the 1935 through 1974 water years were published under the title **"Ground-Water Levels in the United States."** The above mentioned Water-Supply Papers may be consulted in the libraries of the principal cities of the United States and may be purchased from the Branch of Information Services, Box 25286, Federal Center, Denver, CO 80225.

Publications similar to this report are published annually by the U.S. Geological Survey for all States. These official Survey reports have an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as **"U.S. Geological Survey Water-Data Report MD-DE-00-2."** For archiving and general distribution, the reports for 1971-74 water years also are identified as water data-reports. These water-data reports are for sale in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information including current prices for ordering specific reports may be obtained from the District Chief at the address given on the back of the title page or by telephone (410)238-4200.

COOPERATION

The U.S. Geological Survey and agencies of the State of Maryland have had cooperative agreements for the collection of water-resource records from 1896 to 1909 and since 1924. Similar cooperative agreements have existed between the Survey and agencies of the State of Delaware, since 1943. Organizations that assisted in the funding or services in this report through cooperative agreements with the Survey or through the Maryland Geological Survey and Delaware Geological Survey are:

Maryland Geological Survey, Emery T. Cleaves, Director.

Delaware Geological Survey, Robert R. Jordan, State Geologist.

Delaware Department of Transportation, Nathan Howard, Secretary of Transportation.

Delaware Department of Natural Resources and Environmental Control, Nicholas A. DiPasquale,
Secretary of Natural Resources and Environmental Control.

Maryland Department of the Environment, Drinking Water Program, John Grace.

Maryland Department of Natural Resources, Research Assessment Service, Power Plant
Research Program, Peter Dunbar, Director

Anne Arundel County Department of Public Works, Technical Engineering Division,
Laura Layton.

Anne Arundel County Health Department, Division of Community and Environmental Health,
Sanitary Engineering Section, J. Thomas Gruver.

Maryland-National Capitol Park and Planning Commission,
Nazin Baig, Environmental Planning Coordinator

Charles County Department of Planning and Growth Management, Roy Hancock, Director

Queen Annes Department of Public Works, D. Steven Walls, Director

Town of Ocean City, Water Department, Ronald Ellis, Superintendent.

U.S. Army Garrison, Aberdeen Proving Ground, Environmental Conservation and
Restoration Division, Kenneth P. Stachiw, Division Chief.

U.S. Navy, Naval Air Station Patuxent River, Director of Public Works.

Dover Air Force Base, 436th Civil Engineer Squadron, Environmental Flight,
Jo Anne Deramo, Restoration Program Manager.

Organizations and projects that provided data are acknowledged in the site **Remarks** description.

SUMMARY OF HYDROLOGIC CONDITIONS

Ground-Water Levels

Ground-water levels in water-table and artesian observation wells, and spring discharges in Maryland and Delaware fluctuated in response to barometric pressure, earth and sea level tides, precipitation, evapotranspiration, and ground-water withdrawal. Since the late spring of 1997, the Mid-Atlantic States have been subjected to a long-term drought of a magnitude not seen in this area since the mid 1960's. In late summer 1999, Hurricane Dennis (August 25-27, 1999) and Hurricane Floyd (September 16, 1999) followed a northern path along the East Coast that passed directly over the eastern region of the bi-State area. These two storms brought immediate precipitation relief to the region, but by January 2000, water-table levels were again below normal. Snowfall and rainstorms throughout the winter and into the spring brought ground-water levels to normal or above normal. Water-table levels in Maryland and Delaware were normal by the end of the 2000 water year (September 30, 2000).

In Southern Maryland and the northern area of the Delmarva Peninsula, where Coastal Plain artesian aquifers are the main source for municipal water supplies, water levels continued to decline. Water-level conditions are summarized below by physiographic province:

Appalachian Plateau.-- Water-table levels were below normal at the start of the 2000 water year. Levels rose sharply through December but declined slightly in January. Snowstorms in February caused water levels to rise steadily to the high end of the normal range. Throughout the remainder of the water year, water-table levels gradually decreased to normal by the end of the water year. No record water levels were recorded in the five Maryland State Water-Level Monitoring Network wells in this physiographic province.

Valley and Ridge.-- Ground-water-table levels were below normal or normal at the start of the water year. Water-table levels remained in the normal range throughout the 2000 water year. No record high or low water levels were recorded in the six Maryland State Water-Level Monitoring Network wells. There were no record high or low discharges for spring WA Di 103.

Blue Ridge.-- Water-table levels were below normal to normal levels throughout the water year. No record high or low water levels were recorded in either observation well WA Dj 2, or well FR Bd 96. Spring FR Fb 12 did not record a high or low discharge record in the 2000 water year.

Piedmont.-- Water-table levels ranged from below normal to above normal at the beginning of the water year. Most of the Piedmont water-table wells were in the normal range at the start of the water year because of extensive precipitation from two hurricanes in late summer 1999. Observation wells in low-lying areas, like CL Ad 47, were above normal, while observation wells near ridges were below normal at the start of the water year. No high or low record water levels or record spring discharges were recorded during the 2000 water year.

Artesian well MO Cb 26 in the Newark-Gettysburg Basin with a casing height of 8.6 feet above land surface was observed flowing on April 13, 2000. This well was last reported flowing on May 11, 1998.

Coastal Plain.-- Precipitation from two hurricanes in late Summer 1999, brought water-table levels to normal or above normal throughout the Coastal Plain by the start of the 2000 water year. Water-table levels remained normal throughout the water year except in Southern Maryland, where levels rose to above normal by summer and remained above normal at the start of the 2001 water year. Water levels in observation well Pf24-02 rose sharply from a record low measurement on September 2, 1999 to normal levels by October 6, 1999, but dropped below normal levels in December, and continued below normal throughout the remainder of the water year. This Columbia aquifer well is located in an area of Sussex County, Delaware, where this aquifer is used as the main source of water supply.

Artesian aquifers on the western shore of the Chesapeake Bay lie close to their surface-recharge zones at the southeastern edge of the Piedmont Physiographic Province. It is in this outcrop belt that these aquifers receive most of their ground-water recharge. This area is heavily populated because of its close proximity to the Baltimore-Washington and Annapolis metropolitan areas. These areas rely exclusively on ground-water supplies, except for the northwestern part of Prince Georges County, where the Washington Suburban Sanitary Commission supplies surface water from the Potomac and Patuxent Rivers. Artesian aquifers (identified in parentheses) declined in the following towns or areas of Maryland and Delaware due to the general regional increase in ground-water withdrawals, and in part to population growth: Cecilton (Upper Patapsco); Chesapeake Beach (Aquia); Elkton (Lower Patapsco); St. Charles (Patuxent, Lower Patapsco, Magothy); southern Anne Arundel County (Aquia); and Waldorf (Patuxent, Lower and Upper Patapsco, Magothy).

In the Baltimore industrial area, the Patuxent aquifer water levels have increased to record high levels due to reduced ground-water withdrawals that began in 1997.

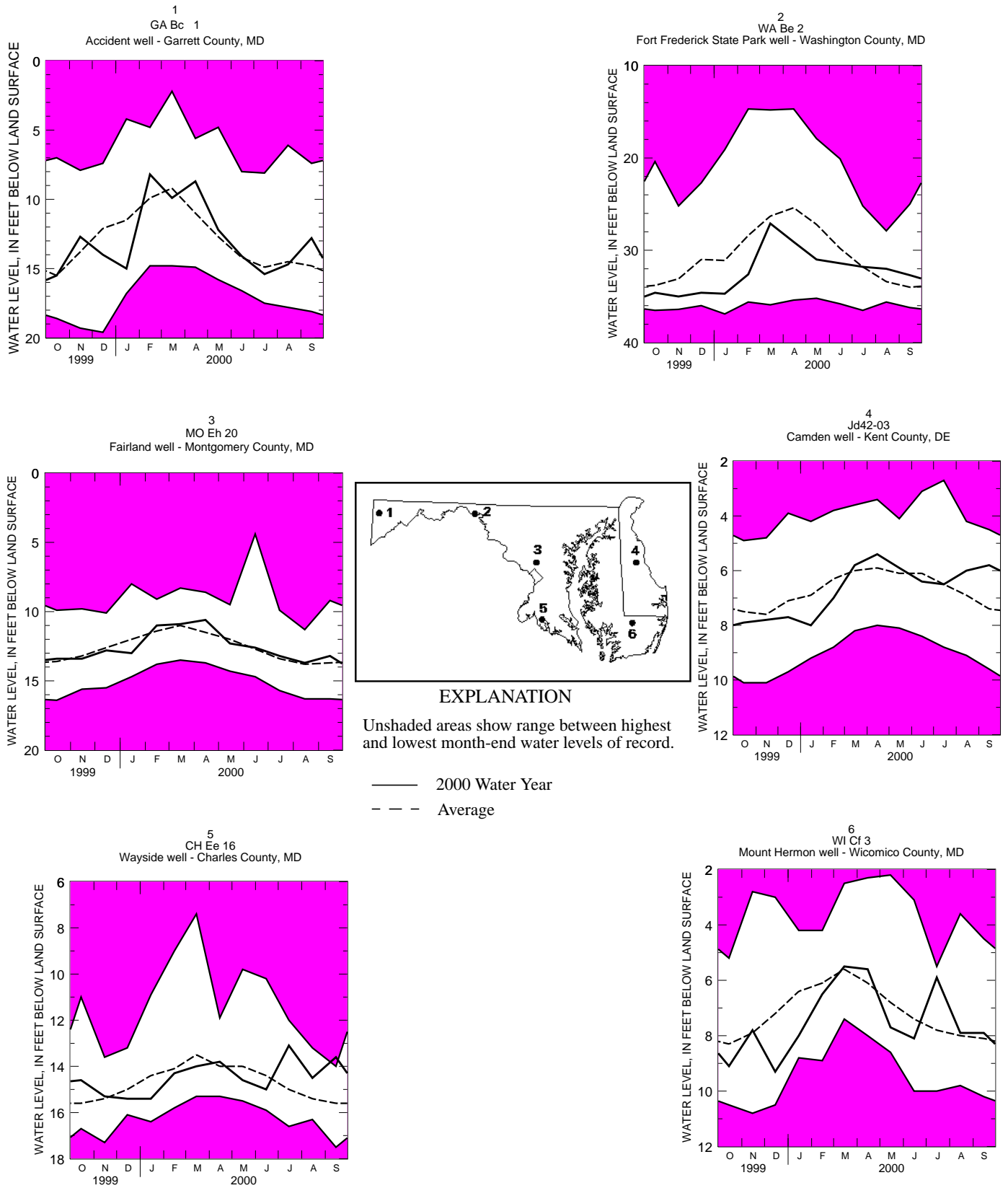


Figure 1.--Monthly ground-water levels at key observation wells.

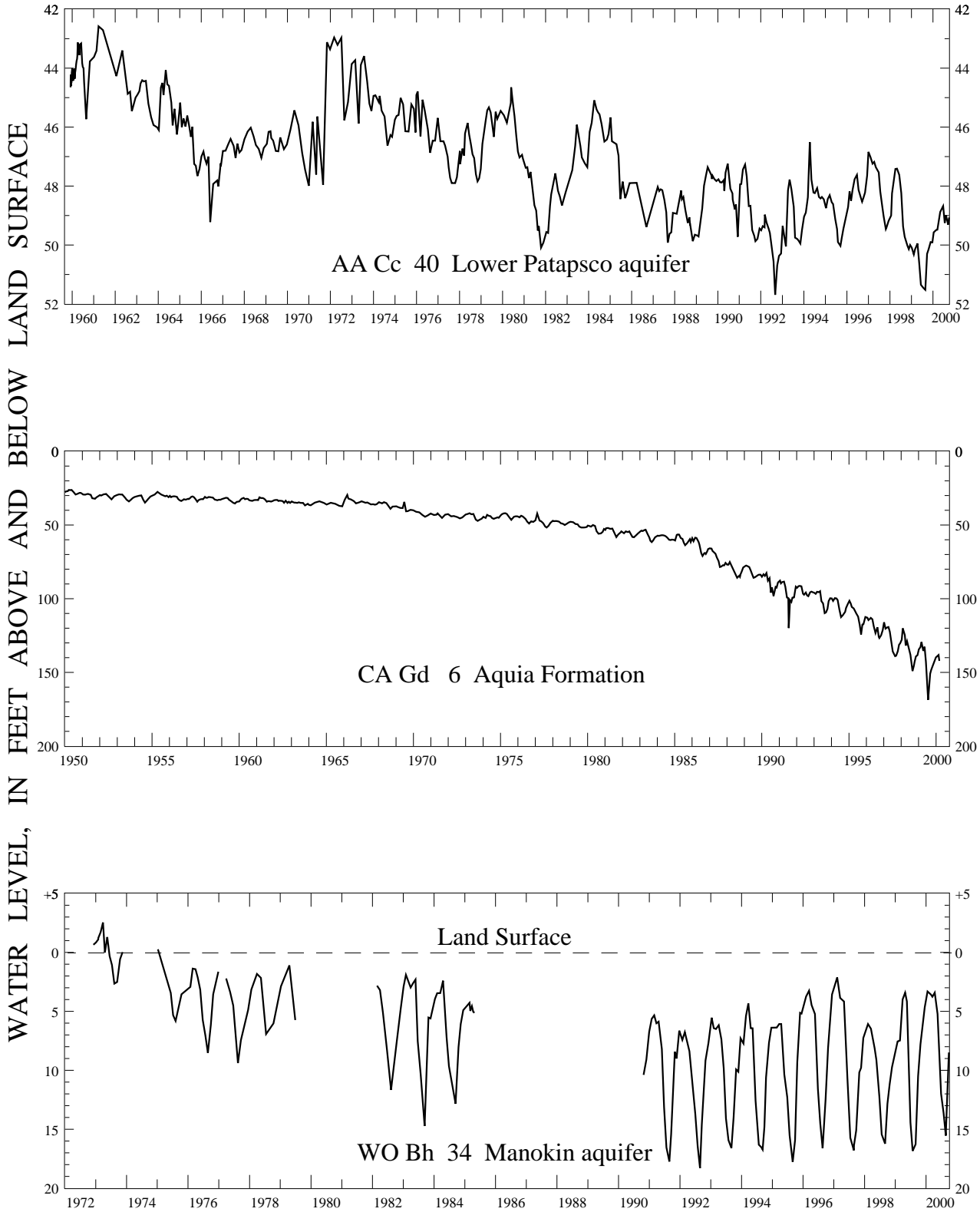


FIGURE 2.-Ground-water levels in selected observation wells in confined Coastal Plain aquifers in Maryland.

SPECIAL NETWORKS AND PROGRAMS

The ground-water **Collection of Basic Records (CBR)** National network provides a framework for collecting and disseminating ground-water-level data characterizing climatic variability. The network fills a unique national need and can be used for local, regional, and National investigations of ground-water response to droughts and other climatic effects. The Maryland and Delaware CBR network water-table observation wells period of record hydrographs are shown on figure 3.

National Water-Quality Assessment (NAWQA) Program of the U.S. Geological Survey is a long-term program with goals to describe the status and trends of water-quality conditions for a large, representative part of the Nation's ground- and surface-water resources; provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 53 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents will be measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for decision making by water-resources managers and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Communication and coordination between USGS personnel and other local, State, and Federal interests are critical components of the NAWQA Program. Each study unit has a local liaison committee consisting of representatives from key Federal, State and local water resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet semiannually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities to collaborate efforts among agencies.

Additional information about the NAWQA Program is available through the world wide web at:

http://wwwrvares.er.usgs.gov/nawqa/nawqa_home.html

NAWQA Programs in the MD-DE-DC, District

The Potomac River Basin and Delmarva Peninsula study units of the U.S. Geological Survey National Water-Quality Assessment (NAWQA) program have been combined into a single project. As the NAWQA program restarts in these areas, the relative emphasis of study components is shifting from documenting the occurrence and distribution of selected constituents, which was the primary focus in the first round of projects, to enhanced efforts toward understanding the processes controlling water quality, trends in water quality, and the relation of these trends of ecological conditions. The goals will be achieved through integrated assessments of hydrology, geology, and biology. The new project began in October 2000 and will complete its current cycle in 2007. During the study period, and continuing after it, specific surface-water and ground-water sites will be monitored continuously for analysis of water-quality trends.

The Delmarva Peninsula Study Unit (Delmarva NAWQA)

The Delmarva Peninsula NAWQA study, one of 7 pilot studies, was active during the period 1986-1991 and restarted in 1999. The Delmarva study has given resource managers information about the extent of ground-water contamination caused by agricultural and residential land use. For example, the study has shown that high concentrations (greater than 10 milligrams per liter) of nitrate, which is a known hazard to human health, are commonly found in water samples from most parts of the surficial aquifer, including the lower parts of the aquifer that are used for water supply. Pesticides generally are not found in deep parts of the surficial aquifer, but they could migrate to these zones during the next few decades.

Potomac River Basin Study Unit (Potomac NAWQA)

The Potomac River Basin NAWQA study began in 1991 with a wide variety of sampling approaches to evaluate water quality in streams and ground water. Streams are being evaluated through repetitive water sampling or through synoptic sampling of many streams. Biological assessments of aquatic insects, fish, and algae, and tissues from clams and fish as well as streambed sediment are being analyzed. Ground water is being evaluated by large-scale samplings of private wells in agricultural, urban, and suburban areas. A small-scale ground-water research basin is being studied as a representative setting in the Potomac River Basin. The first phase of the water-quality assessment for the Potomac River Basin study unit focused on nitrogen, phosphorous, and pesticides, which are the three most common contaminants in water. Analyses of these contaminants have begun to show which streams and ground-water reservoirs contain concentrations of these chemicals at levels harmful to humans and aquatic life; how concentrations of the chemicals vary seasonally; and the likely sources of these chemicals in streams and ground water.

EXPLANATION OF THE RECORDS

The ground-water-levels and quality-of-ground-water records published in this report are for the 2000 water year that began October 1, 1999, and ended September 30, 2000. A calendar of the water year is provided on the inside of the front cover. The records contain ground-water-level data and water-quality data for ground-water. The locations of the ground-water sites where the data were collected are shown in figures 5, 6, and 7. The following sections of text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

Each well in this report is assigned a unique identification number. This number is unique in that it applies specifically to a given well or spring and to no other. The number usually is assigned when a well is first established and is retained for that well or spring indefinitely. The system used by the U.S. Geological Survey to assign identification numbers for ground-water well sites is based on geographic location. The "latitude-longitude" system is used for wells.

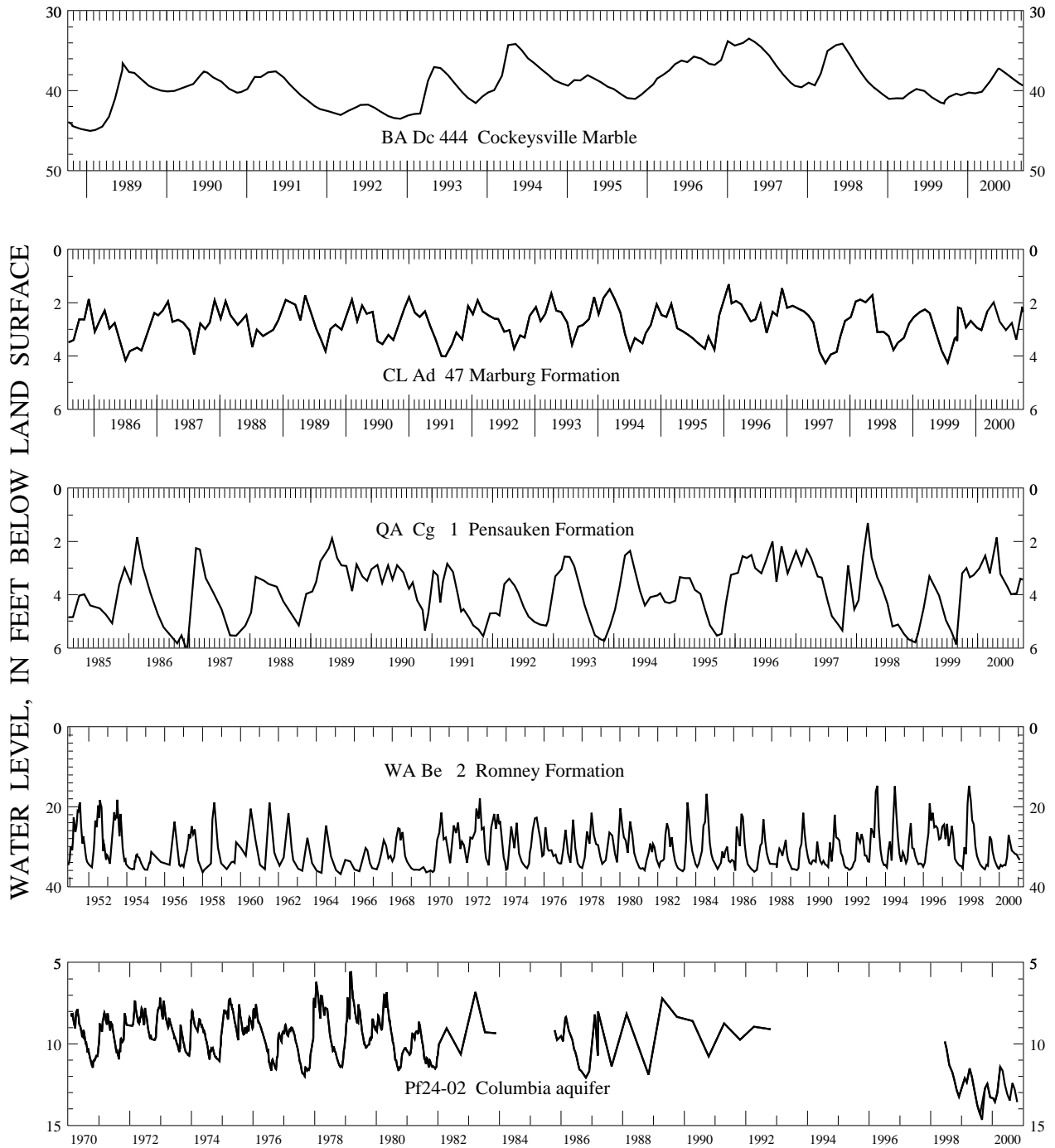


Figure 3. --Ground-water levels for Collection of Basic Records (CBR) network wells in Maryland and Delaware.

Latitude-Longitude System

The identification numbers for wells are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells (or springs) or other sites within a 1-second grid. This site-identification number, once assigned, is a pure number and has no locational significance. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the **LOCATION** paragraph of the station description as the correct latitude and longitude coordinates. (See Figure 4 below.)

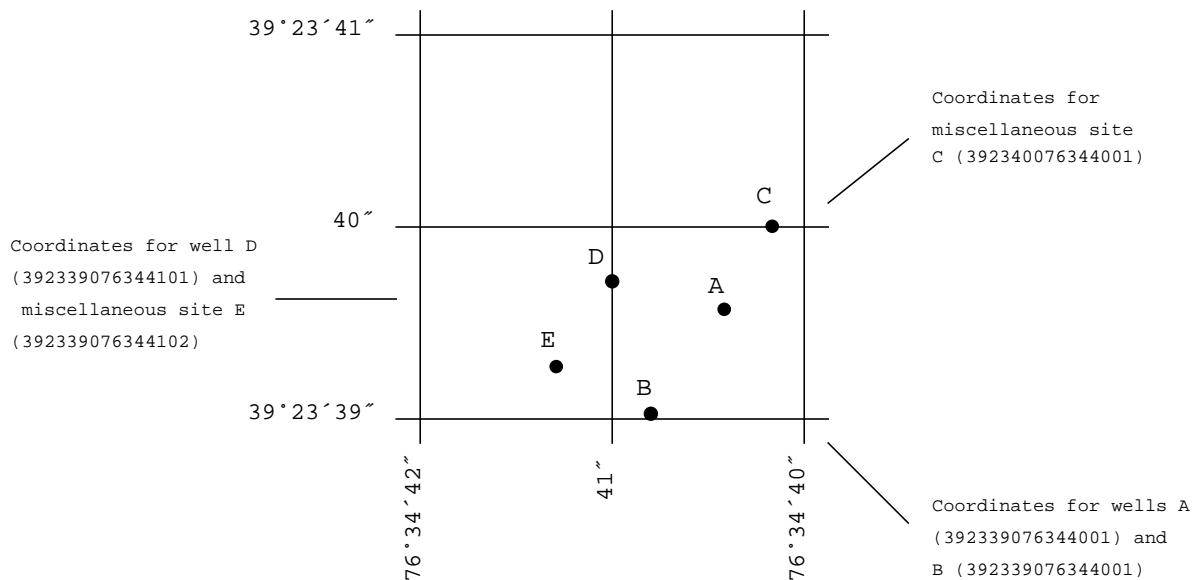


Figure 4.--System for numbering wells and miscellaneous sites (latitude and longitude).

Well-Numbering System

Maryland

Wells in Maryland are also identified on the basis of a second numbering system established by the Maryland Geological Survey. The first two letters of the well number are the county prefix (for example, AL for Allegany). The second part of the well number consists of two letters that designate a 5-minute quadrangle within the county; the first letter (a capital letter) denotes a 5-minute segment of latitude from north to south, and the second letter (lower case) denotes a 5-minute segment of longitude from west to east. The wells are numbered sequentially within each 5-minute quadrangle. For example, well AL Ah 1 is the first well inventoried within the Ah 5-minute quadrangle in Allegany County. Baltimore City well numbers are based on 1-mile grids, with reference to the Washington Monument as the center. Thus, well 7S4E-1 is in the grid cell 7 miles south and 4 miles east of the Washington Monument, and is the first well inventoried in that grid cell.

Delaware

Delaware wells are identified by a numbering system instituted by the Delaware Geological Survey. The State is divided into 5-minute quadrangles of latitude and longitude. The quadrangles are lettered north to south with capital letters. Each 5-minute quadrangle is further subdivided into 25 1-minute blocks which are numbered from north to south from 1 to 5 and are numbered in the sequence in which they are inventoried. The identity of a well is established by prefixing the sequence number with an upper and lower case letter followed by two numbers to designate the 5-minute and 1-minute blocks, respectively, in which the well is located. For example, well number Cb41-03 is the third well to be scheduled in the 1-minute block 41 that has coordinate "Cb41".

Records of Ground-Water Levels

Water-level data and spring discharges from the Maryland and Delaware Ground-Water-Level Monitoring Networks, and observation wells from 10 ground-water projects are reported. These data are intended to provide historical water-level information for ground-water management, and identify ground-water conditions in project areas. The observation-well networks were established to observe ground-water level fluctuations through time and to identify areas of man-induced stress on the ground-water-flow system. The locations of the State network spring and observation wells in Maryland and Delaware are shown on Figure 5. The locations of project wells are shown on Figure 6.

Data Collection and Computation

Measurements of water levels are made in many types of water wells under various conditions. These methods of measurement are standardized to incorporate continuous precision. The equipment and measuring techniques used at each observation well ensure that the measurements at each well are of consistent accuracy and reliability.

The water-level data tables and hydrographs are presented in alphabetical order by counties. The primary identification number is the State well number that appears in the upper left hand corner. The secondary identification number is the 15-digit site identification number (see Latitude-Longitude System section on page 7).

Water levels are measured manually by steel tape or by an electric tape (meter) approximately every 4 to 6 weeks; some wells are equipped with continuous graph or digital water-level recorders to observe daily fluctuations. The water levels are reported to the nearest hundredth of a foot above or below land-surface datum (**lsd**) or sea level. Land-surface datum is a datum plane that is approximately at land surface at each well. The elevation of the land-surface datum and the height of the measuring point (**MP**) above or below land-surface datum is given in each well description. Water levels for wells equipped with graphic or digital recorders report the daily maximum and minimum values.

Data Presentation

A description of each observation well precedes the water-level tables and hydrographs. The following information is given in the description:

WELL NUMBER.--(See **Well-Numbering System** section on page 7.)

SITE ID.--A 15-digit number: the first 6 digits are the latitude, the next 7 digits are the longitude, and the last 2 digits refer to the sequence number for identifying one or more wells at a particular latitude and longitude. The site ID is the best location at the time of inventory. The actual latitude and longitude may be slightly different as a result of more up-to-date knowledge of location. The site ID is basically used as an identification number and not an exact location. (See **Latitude-Longitude System** section on page 7.)

PERMIT NUMBER.--The permit number is the State permit number required for drilling wells in Maryland and Delaware. Upon completion of the well, the driller must submit a completion report which documents specific data on the construction of the well. This document also reports the pumpage results in terms of pumping period, yield as gallons per minute, and drawdown.

LOCATION.--The location is the latitude and longitude in the appropriate designation of degrees, minutes, and seconds. The hydrologic unit is a code for the river basin where the well is located (U.S. Geological Survey, Hydrologic Unit Map-1974 States of Maryland and Delaware). A brief local description of the location is also given along with the well-owner's name.

AQUIFER.--The aquifer is the geologic formation from which the well receives its water supply. Each aquifer is identified by its geologic age and the U.S. Geological Survey Ground Water Site Inventory (GWSI) data base aquifer code.

WELL CHARACTERISTICS.--This describes the type of well, the physical characteristics of the well, and the known construction information.

INSTRUMENTATION.--This provides information on the frequency of measurement of water levels and the continuous water-level equipment used.

DATUM.--This lists the altitude of land surface above sea level at the well to the nearest 10 feet as determined from a 7-1/2-minute quadrangle topographic map, or to the nearest hundredth of a foot as determined from surveying. The measuring point (**MP**) is the distance above or below the land surface at the point at which the water-level measurements are made.

REMARKS.--This section gives important miscellaneous data relevant to the well site.

PERIOD OF RECORD.--The period of record lists the beginning and ending month and year of water-level record or "current year" if the records are to be continued into the following year.

EXTREMES FOR PERIOD OF RECORD.--The extremes for period of record identify the date or dates of highest and lowest water-level measurements.

Spring Discharge Tables

A table of discharge in gallons per minute follows the station description for each spring. The data appears in a table format showing date and discharge. The discharge measurements are measured volumetrically or by use of a flow meter.

Water-Level Tables

A table of water levels follows the station description for each well. Water levels are reported in either of the following table formats:

Hand-held measurements.--If the data are collected by hand held measurements, the data appears in a table format of date and water level with the datum in reference to land surface. These values are reported to the nearest hundredth of a foot.

Recorder.--Water levels are presented in a two-page 6-month format by water year with columns for daily maximums and minimums. These data are reported in reference to either land surface or sea level datum. The daily maximum column for land-surface data represents the lowest daily water level recorded. The daily minimum column for land surface data represents the highest water level recorded. For sea level data, the daily maximum column represents highest daily water level recorded. The daily minimum column represents the lowest daily water level recorded. Missing data are represented by dashes in the table.

Hydrographs

The hydrographs are a graphic display of water-level fluctuations over a period of time. In this report, a 5-year hydrograph is shown starting October 1, 1995 through September 30, 2000. Hydrographs which display hand-measured values are referenced to land surface datum. Each measurement is indicated by a circle and connected with a dashed line to indicate the trend from one measurement to the next. The trend line should be interpreted as a general direction of water-level movement. Actual water levels may deviate from this line. The trend line is not drawn if the measurements are greater than 60 days apart. Recorder data are graphed as a continuous line using the lowest water level recorded for each day. Missing data are indicated by a blank space. Missing data result from recorder malfunctions, battery or clock failures, and mechanical problems related to the response of water-level movement in a well. Spring hydrographs are a graphic display of total volumetric flow at the time of measurement in gallons per minute.

Records of Ground-Water Quality

Records of ground-water quality in this report differ from other types of records in that, for most sampling sites, they consist of only one set of measurements for the water year. The quality of ground water ordinarily changes slowly; therefore, for most purposes, one annual sampling, or only a few samples taken at infrequent intervals during the year, are sufficient. Frequent measurement of the same constituents is not necessary unless one is concerned with a particular problem, such as monitoring for trends in nitrate or chloride concentrations. In the special cases where the quality of ground water may change more rapidly, more frequent measurements are made to identify the nature of the changes. The locations of water-quality wells in Maryland and Delaware are shown in Figure 7.

Data Collection and Computation

The records of ground-water quality in this report were obtained mostly as part of ground-water studies in specific areas. Consequently, a number of chemical analyses are presented for some counties, but none are presented for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality Statewide. This can be attained only by considering records for this year in context with similar records obtained for these and other counties in earlier years.

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey Techniques of Water-Resources Investigations (TWRI's) publications referred to in the "On-site Measurements and Sample Collection" and the "Laboratory Measurements" sections in this data report. In addition, the TWRI Book 1, Chapter D2, describes guidelines for the collection and field analysis of ground-water samples for selected unstable constituents. The values reported in this report represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. These methods are consistent with the American Society for Testing and Materials (ASTM) standards and generally follow the standards of the International Organization for Standards (ISO).

Data Presentation

The records of ground-water quality are published in a section titled **QUALITY OF GROUND WATER** immediately following the ground-water-level records. Data for quality of ground water are listed alphabetically by County, and are identified by well or spring number (**Well Number**). The prime identification number for wells or springs sampled is the 15-digit (**Site ID**) number derived from the latitude-longitude locations. The site ID includes a two-digit sequence number for use at locations having multiple sites. No descriptive statements are given for ground-water-quality records; however, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of the ground water.

Remark Codes

The following remark codes may appear with the water-quality data in this report:

<u>PRINTED OUTPUT</u>	<u>REMARK</u>
E	Estimated value.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
K	Results based on colony count outside the acceptance range (non-ideal colony count).
L	Biological organism count less than 0.5 percent (organism may be observed rather than counted).
D	Biological organism count equal to or greater than 15 percent (dominant).
&	Biological organism estimated as dominant.
V	Analyte was detected in both the environmental sample and the associated blank.

WATER-QUALITY CONTROL DATA

Data generated from quality-control (QC) samples are a requisite for evaluating the quality of the sampling and processing techniques as well as data from the actual samples themselves. Without QC data, environmental sample data cannot be adequately interpreted because the errors associated with the sample data are unknown. The various types of QC samples collected by this District are described in the following section. Procedures have been established for the storage of water-quality-control data within the U.S. Geological Survey. These procedures allow for storage of all derived QC data and are identified so that they can be related to corresponding environmental samples.

Blank Samples

Blank samples are collected and analyzed to ensure that environmental samples have not been contaminated by the overall data-collection process. The blank solution used to develop specific types of blank samples is a solution that is free of the analyses of interest. Any measured value signal in a blank sample for an analyte (a specific component measured in a chemical analysis) that was absent in the blank solution is believed to be due to contamination. There are many types of blank samples possible, each designed to segregate a different part of the overall data-collection process. The types of blank samples collected in this District are:

Field blank - a blank solution that is subjected to all aspects of sample collection, field-processing preservation, transportation, and laboratory handling as an environmental sample.

Trip blank - a blank solution that is processed through the same type of bottle used for an environmental sample and kept with the set of sample bottles before and after sample collection.

Equipment blank - a blank solution that is processed through all equipment used for collecting and processing an environmental sample (similar to a field blank but normally done in the more controlled conditions of the office).

Sampler blank - a blank solution that is poured or pumped through the same field sampler used for collecting an environmental sample.

Filter blank - a blank solution that is filtered in the same manner and through the same filter apparatus used for an environmental sample.

Splitter blank - a blank solution that is mixed and separated using a field splitter in the same manner and through the same apparatus used for an environmental sample.

Preservation blank - a blank solution that is treated with the sampler preservatives used for an environmental sample.

Reference Samples

Reference samples are a solution or material prepared by a laboratory whose composition is certified for one or more properties so that it can be used to assess a measurement method. Samples of reference material are submitted for analysis to ensure that an analytical method is accurate for the known properties of the reference material. Generally, the selected reference material properties are similar to the environmental sample properties.

Replicate Samples

Replicate samples are a set of environmental samples collected in a manner such that the samples are considered to be essentially identical in composition. Replicate is the general case for which a duplicate is the special case consisting of two samples. Replicate samples are collected and analyzed to establish the amount of variability in the data contributed by some part of the collection and analytical process. There are many types of replicate samples possible, each of which may yield slightly different results in a dynamic hydrologic setting, such as a flowing stream. The types of replicate samples collected in this district are collected one after the other, typically over a short time.

Split sample - a type of replicate sample in which a sample is split into subsamples contemporaneous in time and space.

Spike Samples

Spike samples are samples to which known quantities of a solution with one or more well-established analyte concentrations have been added. These samples are analyzed to determine the extent of matrix interference or degradation on the analyte concentration during sample processing and analysis.

ACCESS TO USGS DATA

The U.S. Geological Survey (USGS) is the principal Federal water-data agency and, as such, collects and disseminates about 70 percent of the water data currently being used by numerous State, local, private, and other Federal agencies to develop and manage our water resources. As part of the Geological Survey's program of releasing water data to the public, a large-scale computerized system has been developed for the storage and retrieval of water data collected through its activities. The National Water Information System (NWIS) an updated version of the former National Water Data Storage and Retrieval System (WATSTORE) provides an effective and efficient means for the processing and maintenance of water data collected through the activities of the U.S. Geological Survey and for release of the data to the public. The District computer network system in Baltimore is the main data storage facility for Maryland, Delaware, and Washington, D.C. water data. The following data bases can be accessed for ground-water data:

Ground-Water Site Inventory data base (GWSI) - Contains inventory data for 29,848 ground-water wells, 808 springs, and 2,146 surface water sites. The ground-water data includes site location, geohydrologic characteristics, well construction and manually measured water-level data or spring improvements and discharges, along with other pertinent ground-water information.

Automated Data Processing System (ADAPS) - Contains daily values for 982 observation well water-levels and streamflow stages, along with water temperature, specific conductance, and dissolved oxygen for surface water stations equipped with water-quality monitors.

Quality Water Data base (QWDATA) - Contains approximately 65,560 analyses of water samples which include environmental and quality control samples that describe the chemical, physical, biological, and radio-chemical characteristics of both ground-water sites, and surface- water stations.

State Water Use Data System (SWUDS) - Contains water user consumption information for over 2,430 ground-water and 720 surface water use appropriations with monthly and daily water use totals.

Some water-quality and ground-water data also are available through the world wide web (WWW). These data may be accessed at:

<http://md.water.usgs.gov/>

Specific ground-water real-time and near real-time water-level observation well data and hydrographs can be accessed on the Maryland, Delaware and Washington, D.C., Water Resources Division district world wide web (WWW) page at:

<http://md.water.usgs.gov/groundwater/counties/>

In addition, data can be provided in various machine-readable formats on magnetic tape or 3-1/2 inch floppy disk. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each of the Water Resources Division District Offices (See address on back of the title page).

DEFINITION OF TERMS

Terms related to water-quality and other hydrologic data, as used in this report, are defined below. See also table for converting English units to International System (SI) Units on the inside of the back cover.

Acid neutralizing capacity (ANC) is the equivalent sum of all bases or base-producing materials, solutes plus particulates, in an aqueous system that can be titrated with acid to an equivalence point.

Adenosine triphosphate (ATP) is an organic, phosphate-rich, compound important in the transfer of energy in organisms. Its central role in living cells makes it an excellent indicator of the presence of living material in water. A measure of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter of the original water sample.

Algae are mostly aquatic single-celled, colonial, or multi-celled plants, containing chlorophyll and lacking roots, stems, and leaves.

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

Alkalinity is the capacity of solutes in an aqueous system to neutralize acid.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, while others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. This group includes coliforms that inhabit the intestine of warm-blooded animals and those that inhabit soils. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C plus or minus 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 milliliters (mL) of sample.

Fecal coliform bacteria are bacteria that are present in the intestine or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory, they are defined as all organisms that produce blue colonies within 24 hours when incubated at 44.5°C plus or minus 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found also in the intestine of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C plus or minus 1.0°C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Enterococcus bacteria are commonly found in the feces of humans and other warm-blooded animals. Although some strains are ubiquitous and not related to fecal pollution, the presence of enterococci in water is an indication of fecal pollution and the possible presence of enteric pathogens. Enterococcus bacteria are those bacteria which produce pink to red colonies with black or reddish-brown precipitate after incubation at 41°C on mE agar and subsequent transfer to EIA medium. Enterococci include *Streptococcus faecalis*, *Streptococcus faecium*, *Streptococcus avium*, and their variants.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by micro-organisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area or volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m³), and periphyton and benthic organisms in grams per square mile (g/mi²).

Dry mass refers to the mass of residue present after drying in an oven at 105°C for zooplankton and periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and ash mass and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters (L).

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with BOD or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common green pigments in plants.

Color unit is produced by one milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Dissolved refers to that material in a representative water sample which passes through a 0.45 micrometer (μm) membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Dissolved-solids concentration of water is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.492 to reflect the change.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations and is expressed as the equivalent concentration of calcium carbonate (CaCO_3).

Hydrologic Bench-Mark Network is a network of 50 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by the activities of man.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the USGS Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an eight-digit number.

Land-surface datum (lsd) is a datum plane that is approximately at land surface at each ground-water observation well.

Measuring point (MP) is an arbitrary permanent reference point from which the distance to the water surface in a well is measured to obtain the water level.

Membrane filter is a thin, microporous material of specific pore size used to filter bacteria, algae, and other very small particles from water.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

Methylene blue active substances (MBAS) are apparent detergents. The determination depends on the formation of a blue color when methylene blue dye reacts with synthetic anionic detergent compounds.

Micrograms per gram ($\mu\text{g/g}$) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the element per unit mass (gram) of material analyzed.

Micrograms per liter ($\mu\text{g/L}$, $\mu\text{g/L}$) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Microsiemens per centimeter (mS/cm , US/CM) is a unit expressing the amount of electrical conductivity of a solution as measured between opposite faces of a centimeter cube of solution at a specified temperature. Siemens is the International System of units nomenclature. It is synonymous with mhos and is the reciprocal of resistance in ohms.

Milligrams per liter (MG/L , mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L and is based on the mass of dry sediment per liter of water-sediment mixture.

Most probable number (MPN) is an index of the number of coliform bacteria that, more probably than any other number, would give the results shown by the laboratory examination: it is not an actual enumeration. It is determined from the distribution of gas-positive cultures among multiple inoculated tubes.

National Geodetic Vertical Datum of 1929 (NGVD of 1929) is a geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

The **National Water-Quality Assessment** (NAWQA) Program of the U.S. Geological Survey is a long-term program with goals to describe the status and trends of water-quality conditions for a large, representative part of the Nation's ground- and surface-water resources; provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Organism is any living entity.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meter (m²), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliter (mL) or liter (L). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Parameter Code is a 5-digit number used in the U.S. Geological Survey computerized data system, National Water Information System (NWIS), to uniquely identify a specific constituent. The codes used in NWIS are the same as those used in the U.S. Environmental Protection Agency data system, STORET. The U.S. Environmental Protection Agency assigns and approves all requests for new codes.

Partial-record station is a particular site where limited water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle size is the diameter, in millimeters (mm), of a particle determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine the fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with the recommendation made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay.....	0.00024 - 0.004	Sedimentation
Silt.....	0.004 - 0.062	Sedimentation
Sand.....	0.062 - 2.0	Sedimentation or sieve
Gravel.....	2.0 - 64.0	Sieve

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic matter is removed, and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis.

Percent composition is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, mass, or volume.

Periphyton is the assemblage of micro-organisms attached to and living upon submerged solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms.

Pesticides are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algae mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

Polychlorinated biphenyls (PCB's) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly, green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated by the plants (carbon method).

Milligrams of carbon per area or volume per unit time [mg C/(m².time)] for periphyton and macrophytes and [mg C/(m³.time)] for phytoplankton are units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by radioactive carbon (carbon 14). The carbon 14 method is of greater sensitivity than the oxygen light- and dark- bottle method and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Milligrams of oxygen per area or volume per unit time [mg O₂/(m².time)] for periphyton and macrophytes and [mg O₂/(m³.time)] for phytoplankton are the units for expressing primary productivity. They define production and respiration rates as estimated from changes in the measured dissolved oxygen concentration. The oxygen light- and dark- bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Sea level: In this report "sea level" refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)-a geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

Sodium-adsorption-ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance that is dissolved in water.

Specific conductance is a measure of the ability of water to conduct an electrical current. It is expressed in microsiemens per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is from 55 to 75 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. It is associated with the material retained on a 0.45-micrometer filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45-µm membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) **dissolved** and (2) **total recoverable** concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45-µm membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) **dissolved** and (2) **total** concentrations of the constituent.

Synoptic Studies are short term investigations of specific water-quality conditions during selected seasonal or hydrologic periods to provide improved spatial resolution for critical water-quality conditions. For the period and conditions sampled, they assess the spatial distribution of selected water-quality conditions in relation to causative factors, such as land use and contaminant sources.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, *Hexagenia limbata*, is the following:

Kingdom:	Animal
Phylum:	Arthropoda
Class:	Insecta
Order:	Ephemeroptera
Family:	Ephemeridae
Genus:	<i>Hexagenia</i>
Species:	<i>Hexagenia limbata</i>

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table headings and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Total is the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as **"total."** (Note that the word "total" means two things, indicating that the sample consists of a water-suspended sediment mixture and that the analytical method determined all of the constituent in the sample.)

Total, recoverable is the amount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Volatile Organic Compounds (VOCs) are organic compounds that can be isolated from the water phase of a sample by purging the water with inert gas, such as helium, and subsequently analyzed by gas chromatography. Many VOCs are man-made chemicals that are used and produced in the manufacture of paints, adhesives, petroleum products, pharmaceuticals, and refrigerants. They are often components of fuels, solvents, hydraulic fluids, paint thinners, and dry cleaning agents commonly used in urban settings. VOC contamination of drinking-water supplies is a human health concern because many are toxic and are known or suspected human carcinogens (U.S. Environmental Protection Agency, 1996).

Water year in U.S. Geological Survey reports is the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends and includes 9 of the 12 months. Thus, the year ending September 30, 2000, is called the "2000 water year."

WDR is used as an abbreviation for **"Water-Data Report"** in the **REVISED RECORDS** paragraph to refer to State annual hydrologic-data reports (WRD was used as an abbreviation for **"Water-Resources Data"** in reports published prior to 1976).

WSP is used as an abbreviation for **"Water-Supply Paper"** in reference to previously published reports.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) pertains to surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S. Geological Survey, Information Services, Box 25286, Federal Center, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be sent by check or money order payable to the "U.S. Geological Survey." Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and mention the "U.S. Geological Survey Techniques of Water-Resources Investigations."

Book 1. Collection of Water Data by Direct Measurement**Section D. Water Quality**

- 1-D1. **Water temperature--influential factors, field measurements, and data presentation**, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.
- 1-D2. **Guidelines for collection and field analysis of ground-water samples for selected unstable constituents**, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.

Book 2. Collection of Environmental Data**Section D. Surface Geophysical Methods**

- 2-D1. **Application of surface geophysics to ground-water investigations**, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.
- 2-D2. **Application of seismic-refraction techniques to hydrologic studies**, by F. P. Haeni: USGS--TWRI Book 2, Chapter D2. 1988. 86 pages.

Section E. Subsurface Geophysical Methods

- 2-E1. **Application of borehole geophysics to water-resources investigations**, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.
- 2-E2. **Borehole geophysics applied to ground-water investigations**, by W. S. Keys: USGS--TWRI Book 2, Chapter E2. 1990. 150 pages.

Section F. Drilling and Sample Methods

- 2-F1. **Application of drilling, coring, and sampling techniques to test holes and wells**, by Eugene Shuter and W. E. Teasdale: USGS--TWRI Book 2, Chapter F1. 1989. 97 pages.

Book 3. Application of Hydraulics**Section A. Surface-Water Techniques**

- 3-A1. **General field and office procedures for indirect discharge measurements**, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
- 3-A2. **Measurement of peak discharge by the slope-area method**, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
- 3-A3. **Measurement of peak discharge at culverts by indirect methods**, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
- 3-A4. **Measurement of peak discharge at width contractions by indirect methods**, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
- 3-A5. **Measurement of peak discharge at dams by indirect methods**, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.
- 3-A6. **General procedure for gaging streams**, by R. W. Carter and Jacob Dividian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.
- 3-A7. **Stage measurements at gaging stations**, T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
- 3-A8. **Discharge measurements at gaging stations**, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.
- 3-A9. **Measurement of time of travel and dispersion in streams by dye tracing**, by F. A. Kilpatrick, and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1989. 27 pages.
- 3-A10. **Discharge ratings at gaging stations**, E. J. Kennedy: USGS--TWRI Book 3, Chapter A10. 1984. 59 pages.
- 3-A11. **Measurement of discharge by moving-boat method**, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS--Continued

Book 3. Application of Hydraulics--Continued**Section A. Surface-Water Techniques--Continued**

- 3-A12. **Fluorometric procedures for dye tracing**, by J. F. Wilson, Jr., E. D. Cobb, and F. A. Kilpatrick: USGS--TWRI Book 3, Chapter A12. 1986. 34 pages.
- 3-A13. **Computation of continuous records of streamflow**, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A13. 1983. 53 pages.
- 3-A14. **Use of flumes in measuring discharge**, by F. A. Kilpatrick and V. R. Schneider: USGS--TWRI Book 3, Chapter A14. 1983. 46 pages.
- 3-A15. **Computation of water-surface profiles in open channels**, by Jacob Davidian: USGS--TWRI Book 3, Chapter A15. 1984. 48 pages.
- 3-A16. **Measurement of discharge using tracers**, by F. A. Kilpatrick and E. D. Cobb: USGS--TWRI Book 3, Chapter A16. 1985. 52 pages.
- 3-A17. **Acoustic velocity meter systems**, by Antonius Laenen: USGS--TWRI Book 3, Chapter A17. 1985. 38 pages.
- 3-A18. **Determination of stream reaeration coefficients by use of tracers**, by F. A. Kilpatrick, R. E. Rathbun, Nobuhiro Yotsukura, G. W. Parker, and L. L. Delong: USGS--TWRI Book 3, Chapter 18. 1989. 52 pages.
- 3-A19. **Levels of streamflow gaging stations**, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A19. 1990. 31 pages.
- 3-A20. **Simulation of soluble waste transport and buildup in surface waters using tracers**, by F. A. Kilpatrick: USGS--TWRI Book 3, Chapter A20. 1993. 38 pages.
- 3-A21. **Stream-gaging cableways**, by C. Russell Wagner: USGS--TWRI Book 3, Chapter A21. 1995. 56 pages.

Section B. Ground-Water Techniques

- 3-B1. **Aquifer-test design, observation, and data analysis**, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.
- 3-B2. **Introduction to ground-water hydraulics, a programmed text for self-instruction**, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
- 3-B3. **Type curves for selected problems of flow to wells in confined aquifers**, by J. E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.
- 3-B4. **Regression modeling of ground-water flow**, by R. L. Cooley and Richard L. Naff: USGS--TWRI Book 3, Chapter B4. 1990. 232 pages.
- 3-B4. **Supplement 1. Regression modeling of ground-water flow - Modifications to the computer code for nonlinear regression solution of steady-state ground-water flow problems**, by R. L. Cooley: USGS--TWRI Book 3, Chapter B4. 1993. 8 pages.
- 3-B5. **Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems--An introduction**, by O. L. Franke, T. E. Reilly, and G. D. Bennett: USGS--TWRI Book 3, Chapter B5. 1987. 15 pages.
- 3-B6. **The principle of superposition and its application in ground-water hydraulics**, by T. E. Reilly, O. L. Franke, and G. D. Bennett: USGS--TWRI Book 3, Chapter B6. 1987. 28 pages.
- 3-B7. **Analytical solutions for one-, two-, and three dimensional solute transport in ground-water systems with uniform flow**, by E. J. Wexler: USGS--TWRI Book 3, Chapter B7. 1992. 190 pages.

Section C. Sedimentation and Erosion Techniques

- 3-C1. **Fluvial sediment concepts**, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.
- 3-C2. **Field methods of measurement of fluvial sediment**, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.
- 3-C3. **Computation of fluvial-sediment discharge**, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.

Book 4. Hydrologic Analysis and Interpretation**Section A. Statistical Analysis**

- 4-A1. **Some statistical tools in hydrology**, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.
- 4-A2. **Frequency curves**, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS--Continued

Book 4. Hydrologic Analysis and Interpretation--Continued**Section B. Surface Water**

- 4-B1. **Low-flow investigations**, by H.C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.
- 4-B2. **Storage analyses for water supply**, by H.C. Riggs and C.H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.
- 4-B3. **Regional analyses of streamflow characteristics**, by H.C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.

Section D. Interrelated Phases of the Hydrologic Cycle

- 4-D1. **Computation of rate and volume of stream depletion by wells**, by C.T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.

Book 5. Laboratory Analysis**Section A. Water Analysis**

- 5-A1. **Methods for determination of inorganic substances in water and fluvial sediments**, by M.J. Fishman and L.C. Friedman: USGS--TWRI Book 5, Chapter A1. 1989. 545 pages.
- 5-A2. **Determination of minor elements in water by emission spectroscopy**, by P.R. Barnett and E.C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.
- 5-A3. **Methods for determination of organic substances in water and fluvial sediments**, by R.L. Wershaw, M.J. Fishman, R.R. Grabbe, and L.E. Lowe: USGS--TWRI Book 5, Chapter A3. 1987. 80 pages.
- 5-A4. **Methods for collection and analysis of aquatic biological and microbiological samples**, by L.J. Britton and P.E. Greeson, editors: USGS--TWRI Book 5, Chapter A4. 1989. 363 pages.
- 5-A5. **Methods for determination of radioactive substances in water and fluvial sediments**, by L. L. Thatcher, V.J. Janzer, and K.W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.
- 5-A6. **Quality assurance practices for the chemical and biological analyses of water and fluvial sediments**, by L.C. Friedman and D.E. Erdmann: USGS--TWRI Book 5, Chapter A6. 1982. 181 pages.

Section C. Sediment Analysis

- 5-C1. **Laboratory theory and methods for sediment analysis**, by H.P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.

Book 6. Modeling Techniques**Section A. Ground Water**

- 6-A1. **A modular three-dimensional finite-difference ground-water flow model**, by M.G. McDonald and A.W. Harbaugh: USGS--TWRI Book 6, Chapter A1. 1988. 586 pages.
- 6-A2. **Documentation of a computer program to simulate aquifer-system compaction using the modular finite-difference ground-water flow model**, by S.A. Leake and D.E. Prudic: USGS--TWRI Book 6, Chapter A2. 1991. 68 pages.
- 6-A3. **A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 1: Model Description and User's Manual**, by L.J. Torak: USGS--TWRI Book 6, Chapter A3. 1993. 136 pages.
- 6-A4. **A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 2: Derivation of finite-element equations and comparisons with analytical solutions**, by R.L. Cooley: USGS--TWRI Book 6, Chapter A4. 1992. 108 pages.
- 6-A5. **A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 3: Design philosophy and programming details**, by L.J. Torak: USGS--TWRI Book 6, Chapter A5. 1993. 243 pages.
- 6-A6. **A coupled surface-water and ground-water flow model (MODBRANCH) for simulation of stream-aquifer interaction**, by E.D. Swain and E.J. Wexler: USGS--TWRI Book 6, Chapter A6. 1995. 125 pages.

Book 7. Automated Data Processing and Computations**Section C. Computer Programs**

- 7-C1. **Finite difference model for aquifer simulation in two dimensions with results of numerical experiments**, by P.C. Trescott, G.F. Pinder, and S.P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.
- 7-C2. **Computer model of two-dimensional solute transport and dispersion in ground water**, by L.F. Konikow and J.D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.
- 7-C3. **A model for simulation of flow in singular and interconnected channels**, by R.W. Schaffranek, R.A. Baltzer, and D.E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS--Continued

Book 8. Instrumentation**Section A. Instruments for Measurement of Water Level**

- 8-A1. **Methods of measuring water levels in deep wells**, by M.S. Garber and F.C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.
- 8-A2. **Installation and service manual for U. S. Geological Survey manometers**, by J.D. Craig: USGS--TWRI Book 8, Chapter A2. 1983. 57 pages.

Section B. Instruments for Measurement of Discharge

- 8-B2. **Calibration and maintenance of vertical-axis type current meters**, by G.F. Smoot and C.E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

Book 9. Handbooks for Water-Resources Investigations**Section A. National Field Manual for the Collection of Water-Quality Data**

- 9-A1. **National Field Manual for the Collection of Water-Quality Data: Preparations for Water Sampling**, by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS--TWRI Book 9, Chapter A1. 1998. 47 pages.
- 9-A2. **National Field Manual for the Collection of Water-Quality Data: Selection of Equipment for Water Sampling**, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS--TWRI Book 9, Chapter A2. 1998. 94 pages.
- 9-A3. **National Field Manual for the Collection of Water-Quality Data: Cleaning of Equipment for Water Sampling**, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS--TWRI Book 9, Chapter A3. 1998. 75 pages.
- 9-A4. **National Field Manual for the Collection of Water-Quality Data: Collection of Water Samples**, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS--TWRI Book 9, Chapter A4. 1999. 166 pages.
- 9-A5. **National Field Manual for the Collection of Water-Quality Data: Processing of Water Samples**, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS--TWRI Book 9, Chapter A5. 1999. 149 pages.
- 9-A6. **National Field Manual for the Collection of Water-Quality Data: Field Measurements**, edited by F.D. Wilde and D.B. Radtke: USGS--TWRI Book 9, Chapter A6. 1998. 48 pages.
- 9-A7. **National Field Manual for the Collection of Water-Quality Data: Biological Indicators**, edited by D.N. Myers and F.D. Wilde: USGS--TWRI Book 9, Chapter A7. 1997. 49 pages.
- 9-A8. **National Field Manual for the Collection of Water-Quality Data: Bottom-material samples**, edited by D.B. Radtke: USGS--TWRI Book 9, Chapter A8. 1998. 48 pages.
- 9-A9. **National Field Manual for the Collection of Water-Quality Data: Safety in Field Activities**, edited by S.L. Lane and R.G. Fay: USGS--TWRI Book 9, Chapter A9. 1998. 60 pages.

SELECTED U.S. GEOLOGICAL SURVEY REPORTS ON GROUND-WATER RESOURCES IN DELAWARE

Listed below is a selection of reports on ground-water resources in Delaware, which are available through the U.S. Geological Survey, Branch of Information Services, Federal Center, Building 41, Box 25286, Denver, Colorado 80225 or through E-mail at http://mapping.usgs.gov/esic/prices/other_publications.html.

Professional Papers

Water Resources of the Delaware River Basin, by G.G. Parker, A.G. Hely, W.B. Keighton, F.H. Olmsted, and others: U.S. Geological Survey Professional Paper 381. 1965. 200 pages.

Base flow as an indicator of aquifer characteristics in the Coastal Plain of Delaware, by R.H. Johnston: U.S. Geological Survey Professional Paper 750-D. 1971. pages D212-D215.

Structural and stratigraphic frameworks and spatial distribution of the permeability of the Atlantic Coastal Plain, New York to North Carolina, by P.M. Brown, J.A. Miller, and F.M. Swain: U.S. Geological Survey Professional Paper 796. 1972.

Water resources of the Delmarva Peninsula, by E.M. Cushing, I.H. Kantrowitz, and K.R. Taylor: U.S. Geological Survey Professional Paper 822. 1972. 58 pages.

Geohydrologic appraisal of the Northern Atlantic Coastal Plain in parts of North Carolina, Virginia, Maryland, Delaware, New Jersey, and New York, by Henry Trapp, Jr., and Harold Meisler: U.S. Geological Survey Professional Paper 1404-A. 1991. 163 pages.

Hydrogeologic framework of the Coastal Plain sediments in Maryland, Delaware, and the District of Columbia, as developed for the Northern Atlantic Regional Aquifer Systems Analysis (RASA), by D.A. Vroblesky, and W.B. Fleck: U.S. Geological Survey Professional Paper 1404-E. 1989. 45 pages.

Simulation of the ground-water flow system of the Coastal Plain sediments, Maryland, Delaware, and the District of Columbia, by W.B. Fleck, and D.A. Vroblesky: U.S. Geological Survey Professional Paper 1404-J. 1996.

Geohydrology and simulation of ground-water flow in the northern Atlantic Coastal Plain aquifer system, by P.P. Leahy: U.S. Geological Survey Professional Paper 1404-K. 1994. 81 pages.

Water-Supply Papers

Delaware in Underground waters of the Eastern United States: Geological Survey Research, by N.H. Darton, and M.L. Fuller: U.S. Geological Survey Water-Supply Paper 114-A. 1905. pages 111-113.

Beach-area water supplies between Ocean City, Maryland, and Rehoboth Beach, Delaware, by T.H. Slaughter: U.S. Geological Survey Water-Supply Paper 1619-T. 1962.

Ground-water resources of southern New Castle County, Delaware, by D.R. Rima, O.J. Coskery, and P.W. Anderson: U.S. Geological Survey Water-Supply Paper 1756. 1964. 54 pages.

Effects of eustatic sea-level changes on saltwater-freshwater in the northern Atlantic Coastal Plain, by Harold Meisler, P.P. Leahy, and L.L. Knobel: U.S. Geological Survey Water-Supply Paper 2255. 1984. 28 pages.

Delaware ground-water resources, in National Water Summary 1984, by A.L. Hodges, Jr.: U.S. Geological Survey Water-Supply Paper 2275. 1985. pages 167-172.

Delaware water supply and use, by A.L. Hodges, Jr., R.D. Varrin, and P.J. Cherry, in National Water Summary 1987--Water supply and use: U.S. Geological Survey Water-Supply Paper 2350. 1989, pages 207-214.

Ground-water-quality assessment of the Delmarva Peninsula, Delaware, Maryland, and Virginia: Analysis of available water-quality data through 1987, by P.A. Hamilton, and R.J. Shedlock: U.S. Geological Survey Water-Supply Paper 2355-B. 1989, 186 pages.

Hydrologic Investigation Atlases

Water-table, surface-drainage, and engineering soils map of the St. Georges area, Delaware, by J.K. Adams, and D.H. Boggess: U.S. Geological Survey Hydrologic Investigation Atlas 60. 1963. 1 map. scale 1:24,000.

Water-table, surface-drainage and engineering soils map of the Newark area, Delaware, by D.H. Boggess, and J.K. Adams: U.S. Geological Survey Hydrologic Investigation Atlas 64. 1963. 1 map. scale 1:24,000.

Water-table, surface-drainage and engineering soils map of the Wilmington area, Delaware, by J.K. Adams, and D.H. Boggess: U.S. Geological Survey Hydrologic Investigation Atlas 79. 1964. 1 map. scale 1:24,000.

SELECTED U.S. GEOLOGICAL SURVEY REPORTS ON GROUND-WATER RESOURCES IN DELAWARE--Continued

Hydrologic Investigation Atlases--Continued

- Water-table, surface-drainage and engineering soils map of the Taylors Bridge area, Delaware,**
by J.K. Adams, D.H. Boggess, and others: U.S. Geological Survey Hydrologic Investigation Atlas 80. 1964.
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- Water-table, surface-drainage and engineering soils map of the Smyrna area, Delaware,** by J.K. Adams,
D.H. Boggess, and others: U.S. Geological Survey Hydrologic Investigation Atlas 81. 1964. 1 map.
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- Water-table, surface-drainage and engineering soils map of the Middletown area, Delaware,** by J.K. Adams,
D.H. Boggess, and others: U.S. Geological Survey Hydrologic Investigation Atlas 82. 1964. 1 map.
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- Water-table, surface-drainage and engineering soils map of the Clayton area, Delaware,** by J.K. Adams,
D.H. Boggess, and others: U.S. Geological Survey Hydrologic Investigation Atlas 83. 1964. 1 map.
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- Water-table, surface-drainage and engineering soils map of the Sharptown area, Delaware,** by J.K. Adams,
D.H. Boggess, and others: U.S. Geological Survey Hydrologic Investigation Atlas 84. 1964. 1 map.
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- Water-table, surface-drainage and engineering soils map of the Greenwood quadrangle, Delaware,**
J.K. Adams, D.H. Boggess, and others: U.S. Geological Survey Hydrologic Investigation Atlas 99. 1964.
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- Water-table, surface-drainage and engineering soils map of the Hickman area, Delaware,** by J.K. Adams,
D.H. Boggess, and others: U.S. Geological Survey Hydrologic Investigation Atlas 100. 1964. 1 map.
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- Water-table, surface-drainage and engineering soils map of the Ellendale quadrangle, Delaware,**
by J.K. Adams, D.H. Boggess, and others: U.S. Geological Survey Hydrologic Investigation Atlas 101. 1964.
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- Water-table, surface-drainage and engineering soils map of the Milton quadrangle, Delaware,**
by J.K. Adams, D.H. Boggess, and others: U.S. Geological Survey Hydrologic Investigation Atlas 102. 1964.
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- Water-table, surface-drainage and engineering soils map of the Lewes area, Delaware,**
by J.K. Adams, D.H. Boggess, and others: U.S. Geological Survey Hydrologic Investigation Atlas 103. 1964.
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- Water-table, surface-drainage and engineering soils map of the Seaford West area, Delaware,**
by D.H. Boggess, J.K. Adams, and others: U.S. Geological Survey Hydrologic Investigation Atlas 105. 1964.
1 map. scale 1:24,000.
- Water-table, surface-drainage and engineering soils map of the Seaford East area, Delaware,**
by D.H. Boggess, J.K. Adams, and others: U.S. Geological Survey Hydrologic Investigation Atlas 106. 1964.
1 map. scale 1:24,000.
- Water-table, surface-drainage and engineering soils map of the Georgetown quadrangle, Delaware,**
by D.H. Boggess, J.K. Adams, and others: U.S. Geological Survey Hydrologic Investigation Atlas 107. 1964.
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- Water-table, surface-drainage and engineering soils map of the Harbeson quadrangle, Delaware,**
by D.H. Boggess, J.K. Adams, and others: U.S. Geological Survey Hydrologic Investigation Atlas 108. 1964.
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- Water-table, surface-drainage and engineering soils map of the Rehoboth Beach area, Delaware,**
by D.H. Boggess, J.K. Adams, and others: U.S. Geological Survey Hydrologic Investigation Atlas 109. 1964.
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- Water-table, surface-drainage and engineering soils map of the Frankford area, Delaware,**
by J.K. Adams, D.H. Boggess, and others: U.S. Geological Survey Hydrologic Investigation Atlas 119. 1964.
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by J.K. Adams, D.H. Boggess, and others: U.S. Geological Survey Hydrologic Investigation Atlas 120. 1964.
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- Water-table, surface-drainage and engineering soils map of the Millsboro area, Delaware,**
by J.K. Adams, D.H. Boggess, and others: U.S. Geological Survey Hydrologic Investigation Atlas 121. 1964.
1 map. scale 1:24,000.
- Water-table, surface-drainage and engineering soils map of the Bethany Beach area, Delaware,**
by J.K. Adams, D.H. Boggess, and others: U.S. Geological Survey Hydrologic Investigation Atlas 122. 1964.
1 map. scale 1:24,000.

SELECTED U.S. GEOLOGICAL SURVEY REPORTS ON GROUND-WATER RESOURCES IN DELAWARE--Continued

Hydrologic Investigation Atlases--Continued

Water-table, surface-drainage and engineering soils map of the Laurel area, Delaware,
by J.K. Adams, D.H. Boggess, and others: U.S. Geological Survey Hydrologic Investigation Atlas 123. 1964.
1 map. scale 1:24,000.

Water-table, surface-drainage and engineering soils map of the Marydel area, Delaware,
by D.H. Boggess, C.F. Davis, and others: U.S. Geological Survey Hydrologic Investigation Atlas 132.
1964-65. 1 map. scale 1:24,000.

Water-table, surface-drainage and engineering soils map of the Milford quadrangle, Delaware,
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1964-65. 1 map. scale 1:24,000.

Water-table, surface-drainage and engineering soils map of the Little Creek quadrangle, Delaware,
by D.H. Boggess, C.F. Davis, and others: U.S. Geological Survey Hydrologic Investigation Atlas 134.
1964-65. 1 map. scale 1:24,000.

Water-table, surface-drainage and engineering soils map of the Burrsville area, Delaware,
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Water-table, surface-drainage and engineering soils map of the Harrington quadrangle, Delaware,
by D.H. Boggess, C.F. Davis, and others: U.S. Geological Survey Hydrologic Investigation Atlas 136.
1964-65. 1 map. scale 1:24,000.

Water-table, surface-drainage and engineering soils map of the Mispillion River, Delaware,
by D.H. Boggess, C.F. Davis, and others: U.S. Geological Survey Hydrologic Investigation Atlas 137.
1964-65. 1 map. scale 1:24,000.

Water-table, surface-drainage and engineering soils map of the Kenton area, Delaware,
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Water-table, surface-drainage and engineering soils map of the Dover quadrangle, Delaware,
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Water-table, surface-drainage and engineering soils map of the Frederica area, Delaware,
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Water-table, surface-drainage and engineering soils map of the Wyoming quadrangle, Delaware,
by D.H. Boggess, C.F. Davis, and others: U.S. Geological Survey Hydrologic Investigation Atlas 141.
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Ground-Water Temperature of the Wyoming quadrangle in central Delaware, with application to ground-water-source heat pumps, by A.L. Hodges, Jr.: U.S. Geological Survey Water-Resources Investigations Report 82-53. 1983. 29 pages.

A three-dimensional ground-water flow model modified to reduce computer memory requirements and better simulate confining bed and aquifer pinchouts, by P.P. Leahy: U.S. Geological Survey Water-Resources Investigations Report 82-4023. 1982. 59 pages.

Ground-water temperature of the Wyoming quadrangle in central Delaware, with application to ground-water-source heat pumps, by A.L. Hodges, Jr.: U.S. Geological Survey Water-Resources Investigations Report 82-53. 1983. 29 pages.

Simulated ground-water flow in the Potomac aquifers, New Castle County, Delaware, by M.M. Martin: U.S. Geological Survey Water-Resources Investigations Report 84-4007. 1985. 85 pages, 1 plate.

Hydrogeology, degradation of groundwater quality, and simulation of infiltration from the Delaware River into the Potomac aquifers, northern Delaware, by S.W. Phillips: U.S. Geological Survey Water-Resources Investigations Report 87-4185. 1988. 86 pages.

Water levels, chloride concentrations, and pumpage in the Coastal aquifers of Delaware and Maryland, by D.J. Phelan: U.S. Geological Survey Water-Resources Investigations Report 87-4229. 1988. 106 pages.

Water Use in the St. Jones River Basin, Kent County, Delaware, 1983-86, by D.J. Phelan: U.S. Geological Survey Water-Resources Investigation Report 90-4094. 1990. 30 pages.

Nitrate and Selected Pesticides in Ground Water of the Mid-Atlantic Region, by S.W. Ator and M.J. Ferrari: U.S. Geological Survey Water-Resources Investigation Report 97-4139. 1997. 8 pages.

Assessment of natural attenuation from three source areas in the East Management, Dover Air Force Base, Kent County, Delaware, by L. Joseph Bachman, Martha L. Cashel, and Barbara A. Bekins: U.S. Geological Survey Water-Resources Investigation Report 98-4153. 1998. 46 pages.

SELECTED U.S. GEOLOGICAL SURVEY REPORTS ON GROUND-WATER RESOURCES IN DELAWARE--Continued

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Hydrogeology and simulation of Ground-Water Flow at Dover Air Force Base, Delaware, by Kurt C. Hinaman and Frederick J. Tenbus: U.S. Geological Survey Water-Resources Investigation Report 99-4224. 2000. 72 pages.

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Availability of ground water on the Delmarva Peninsula, by A.J. Hodges, Jr.: U.S. Geological Survey Open-File Report 77-759. 1978. 6 pages.

Preliminary delineation of salty ground-water in the northern Atlantic Coastal Plain, by Harold Meisler: U.S. Geological Survey Open-File Report 81-71. 1981. 12 pages.

Hydrologic data for the Potomac Formation in New Castle County, Delaware, by Mary M. Martin: U.S. Geological Survey Open-File Report 81-916. 1982. 148 pages.

Ground-water-quality data for the Atlantic Coastal Plain, Delaware, Maryland, Virginia, and North Carolina, by LeRoy L. Knobel: U.S. Geological Survey Open-File Report 85-154. 1986. 84 pages.

Ground-water quality assessment of the Delmarva Peninsula, Delaware, Maryland, and Virginia, project description, by L. Joseph Bachman, Robert J. Shedlock, and Patrick J. Phillips: U.S. Geological Survey Open-File Report 87-112. 1988. 18 pages.

Ground-Water studies in Delaware, Gary N. Paulachok: U.S. Geological Survey Open-File Report 88-148. 1989. (fact sheet).

Groundwater assessment of the Delmarva Peninsula, Delaware, Maryland, and Virginia: Analysis of available water-quality data through 1987, by P.A. Hamilton, R.J. Shedlock, and P.J. Phillips: U.S. Geological Survey Open-File Report 89-34. 1990. 71 pages.

Distribution of dissolved atrazine and two metabolites in the confined aquifer, southeastern Delaware, by J.M. Denver, and M.W. Sandstrom: U.S. Geological Survey Open-File Report 91-88. 1992. 48 pages.

Water quality assessment of the Delmarva Peninsula, Delaware, Maryland and Virginia -- Effects of agriculture activities on and distribution of, nitrate and other inorganic constituents in surficial aquifers, by P.A. Hamilton, J.M. Denver, P.J. Phillips, and R.J. Shedlock: U.S. Geological Survey Open-File Report 93-40. 1993. 87 pages.

Potentiometric maps and ground-water-level data for the industrial area northwest of Delaware City, Delaware, 1993-94, by C.A. Donnelly, and K.C. Hinaman: U.S. Geological Survey Open-File Report 95-318. 1996. 1 plate.

Selected Hydrogeologic and Chloride-Concentration Data for the Northern and Central Coastal area of New Castle County, Delaware, by M.A. Hayes, S.W. Phillips, and J.C. Wheeler: U.S. Geological Survey Open-File Report 95-766. 1998. 37 pages.

Water-Level data for the industrial area northwest of Delaware City, Delaware, 1993-94, by C.A. Donnelly, and K.C. Hinaman: U.S. Geological Survey Open-File Report 96-125. 1996. 23 pages.

Hydrogeologic and water-quality data for the East Management Unit of Dover Air Force Base, Kent County, Delaware, 1995-96, by Joseph E. Beman, Daniel J. Phelan, Joel E. Dysart, Martha L. Cashel, and Vanessa C. Smith: U.S. Geological Survey Open-File Report 99-253. 1999. 95 pages.

Unnumbered Report

A summary of geologic and hydrologic data from an exploratory well drilled near Greenwood, Delaware; U.S. Geological Survey. 1971. 18 pages.

Circulars

Northern Atlantic Coastal Plain regional aquifer-system study, by Harold Meisler, in Regional Aquifer-System Analysis Program of the U.S. Geological Survey summary of projects, 1978-1984, R.J. Sun, editor: U.S. Geological Survey Circular 1002. 1986. pages 162-194.

Are Fertilizers and Pesticides in the Ground Water? A case study of the Delmarva Peninsula, Delaware, Maryland, and Virginia, by P.A. Hamilton and R.J. Shedlock: U.S. Geological Survey Circular 1080. 1992. 16 pages.

SELECTED DELAWARE GEOLOGICAL SURVEY REPORTS ON GROUND-WATER RESOURCES IN DELAWARE

Listed below is a selection of reports on ground-water resources in Delaware which are available through the Delaware Geological Survey, by writing: Publications, Delaware Geological Survey, University of Delaware, Newark, DE 19716-7501 or through E-mail at <http://www.udel.edu/dgs/pubform.html>.

Report of Investigations

High-capacity test well developed at the Dover Air Force Base, by W.C. Rasmussen, J.J. Groot, and A.J. Depman: Delaware Geological Survey Report of Investigations No. 2. 1958. 36 pages.

Wells for the observation of chloride and water levels in aquifers that cross the Chesapeake and Delaware Canal, by W.C. Rasmussen, J.J. Groot, and N.H. Beamer: Delaware Geological Survey Report of Investigation No. 3. 1958. 22 pages.

Ground-water levels in Delaware, January 1962-June 1966, by K.D. Woodruff: Delaware Geological Survey Report of Investigations No. 9. 1967. 28 pages.

The Occurrence of saline ground-water in Delaware aquifers, by K.D. Woodruff: Delaware Geological Survey Report of Investigations No. 13. 1969. 45 pages.

General ground-water quality in fresh-aquifers of Delaware, by K.D. Woodruff: Delaware Geological Survey Report of Investigations No. 15. 1970. 32 pages.

Ground-water geology of the Delaware Atlantic seashore, by J.C. Miller: Delaware Geological Survey Report of Investigations No. 17. 1971. 33 pages.

Geology and ground water, University of Delaware, Newark, Delaware, by K.D. Woodruff, J.C. Miller, R.R. Jordan, N. Spoljaric and T.E. Pickett: Delaware Geological Survey Report of Investigations No. 18. 1972. 40 pages.

Configuration on the base and thickness of the unconfined aquifer in southeastern Sussex County, Delaware, by J.M. Denver: Delaware Geological Survey Report of Investigations No. 20. 1983. 12 pages.

Hydrogeology of selected sites in the greater Newark area, Delaware, by J.H. Talley: Delaware Geological Survey Report of Investigations No. 22. 1974. 61 pages.

Relation of ground water to surface water in four small basins of the Delaware Coastal Plain, by R.H. Johnston: Delaware Geological Survey Report of Investigations No. 24. 1976. 56 pages.

Hydraulic characteristics of the Piney Point aquifer and overlying confining bed near Dover, Delaware, by P.P. Leahy: Delaware Geological Survey Report of Investigations No. 26. 1976. 24 pages.

Ground-water investigations in the Delaware Piedmont for the City of Newark, 1976, by W.F. Hahn: Delaware Geological Survey Report of Investigations No. 27. 1977. 26 pages.

Well and aquifer tests, Laird Tract well field, Newark, Delaware, by J.H. Talley, and W.F. Hahn: Delaware Geological Survey Report of Investigations No. 28. 1978. 26 pages.

Digital model of the Piney Point aquifer in Kent County, Delaware, by P.P. Leahy: Delaware Geological Survey Report of Investigations No. 29. 1979. 81 pages.

Ground-water levels in Delaware, July, 1966-December, 1977, by J.H. Talley: Delaware Geological Survey Report of Investigations No. 30. 1979. 50 pages.

Hydrology of the Manokin, Ocean City, and Pocomoke aquifers of southeastern Delaware, by A.L. Hodges: Delaware Geological Survey Report of Investigations No. 38. 1983. 60 pages.

Sodium concentrations in water from the Piney Point Formation, Dover area, Delaware, by N. Spoljaric: Delaware Geological Survey Report of Investigations No. 40. 1986. 14 pages.

Hydrogeology and geochemistry of the unconfined aquifer, west-central and southwestern Delaware, by J.M. Denver: Delaware Geological Survey Report of Investigations No. 41. 1986. 100 pages.

Estimate of direct discharge of fresh ground water to Rehoboth and Indian River Bays, by A.S. Andres: Delaware Geological Survey Report of Investigations No. 43. 1987. 37 pages.

Ground-water levels in Delaware, January 1978-December 1987, by J.H. Talley: Delaware Geological Survey Report of Investigations No. 44. 1988. 58 pages.

Effects of agricultural practices and septic-system effluent on the quality of water in the unconfined aquifer in parts of eastern Sussex County, Delaware, by J.M. Denver: Delaware Geological Survey Report of Investigation No. 45. 1989. 66 pages.

Results of the coastal Sussex County, Delaware, ground-water quality survey, by A.S. Andres: Delaware Geological Survey Report of Investigations No. 49. 1991. 28 pages.

Herbicides in shallow ground-water at two agriculture sites in Delaware, by J.M. Denver: Delaware Geological Survey Report of Investigations No. 51. 1993. 28 pages.

Quality and Geochemistry of Ground Water in Southern New Castle County, Delaware, by L.J. Bachman and M.J. Ferrari: Delaware Geological Survey Report of Investigations No. 52. 1995. 31 pages.

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Bulletins

- Ground-water problems in highway construction and maintenance**, by W.C. Rasmussen, and L.B. Haigler: Delaware Geological Survey Bulletin No. 1. 1953. 24 pages.
- Geology and ground-water resources of the Newark area, Delaware**, by J.J. Groot, and W.C. Rasmussen: Delaware Geological Survey Bulletin No. 2. 1954. 133 pages.
- Preliminary report on the geology and ground-water resources of Delaware**, by I.W. Marine, and W.C. Rasmussen: Delaware Geological Survey Bulletin No. 4. 1955. 336 pages.
- Ground-water resources of southern New Castle County, Delaware**, by D.R. Rima, O.J. Coskery, and P.W. Anderson: Delaware Geological Survey Bulletin No. 11. 1964. 54 pages.
- Geology, hydrology and geophysics of Columbia sediments in the Middletown-Odessa area, Delaware**, by N. Spoljaric, and K.D. Woodruff: Delaware Geological Survey Bulletin No. 13. 1973. 78 pages.
- Hydrology of the Columbia (Pleistocene) deposits of Delaware**, by R.H. Johnston: Delaware Geological Survey Bulletin No. 14. 1973. 7 pages.
- Digital model of the unconfined aquifer in central and southeastern Delaware**, by R.H. Johnston: Delaware Geological Survey Bulletin 15. 1977. 47 pages.
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Hydrogeologic Atlas Littlestown Quadrangle, Carroll County, Maryland, by J.M. Weigle, and J.T. Hilleary: Maryland Geological Survey Quadrangle Atlas No. 14. 1981. 5 maps.

Hydrogeologic Atlas Manchester Quadrangle, Carroll County, Maryland, by E.G. Otton: Maryland Geological Survey Quadrangle Atlas No. 15. 1981. 5 maps.

Hydrogeologic Atlas Taneytown-Emmitsburg Quadrangles, Carroll County, Maryland, by J.M. Weigle: Maryland Geological Survey Quadrangle Atlas No. 16. 1981. 5 maps.

Hydrogeologic Atlas Union Bridge-Woodsboro Quadrangles, Carroll County, Maryland, by J.M. Weigle: Maryland Geological Survey Quadrangle Atlas No. 17. 1981. 5 maps.

Hydrogeologic Atlas Hereford Quadrangle, Baltimore County, Maryland, by M.T. Duigon, and J.T. Hilleary: Maryland Geological Survey Quadrangle Atlas No. 18. 1981. 5 maps.

Hydrogeologic Atlas Finksburg Quadrangle, Carroll County, Maryland, by J.F. Williams: Maryland Geological Survey Quadrangle Atlas No. 19. 1981. 5 maps.

Hydrogeologic Atlas New Freedom Quadrangle, Baltimore County, Maryland, by M.T. Duigon: Maryland Geological Survey Quadrangle Atlas No. 20. 1983. 5 maps.

Hydrogeologic Atlas Ellicott City Quadrangle, Baltimore and Howard Counties, Maryland, by M.T. Duigon: Maryland Geological Survey Quadrangle Atlas No. 21. 1983. 5 maps.

Hydrogeologic Atlas Phoenix Quadrangle, Baltimore and Harford Counties, Maryland, by E.G. Otton: Maryland Geological Survey Quadrangle Atlas No. 22. 1983. 5 maps.

Hydrogeologic Atlas Norrisville Quadrangle, Baltimore and Harford Counties, Maryland, by E.G. Otton: Maryland Geological Survey Quadrangle Atlas No. 23. 1983. 5 maps.

SELECTED U.S.GEOLOGICAL SURVEY REPORTS ON GROUND-WATER RESOURCES IN THE DISTRICT OF COLUMBIA

Listed below is a selection of reports on ground-water resources in Washington, D.C. which are available through the U.S. Geological Survey, Book and Open-File Reports, Federal Center, Building 41, Box 25425, Denver, Colorado 80225 or through E-mail at http://mapping.usgs.gov/esic/prices/other_publications.html.

Professional Paper

Hydrogeologic framework of the Coastal Plain of Maryland, Delaware, and the District of Columbia, as developed for the Northern Atlantic Regional Aquifer System Analysis (RASA), U.S. Geological Survey, by D.A. Vroblesky, and W.B. Fleck: U.S. Geological Survey Professional Paper 1404-E, 1991, 45 pages.

Water-Supply Papers

District of Columbia in Underground water of the Eastern United States, Geological Survey Research, by N.H. Darton, and M.L. Fuller: U.S. Geological Survey Water-Supply Paper 114-A. 1905. pages 124-126.

Geology and ground-water resources of Washington, D.C., and vicinity, by P. M. Johnston, with a section on Chemical quality of the water, by D.E. Weaver and Leonard Siu: U.S. Geological Survey Water-Supply Paper 1776. 1964. 133 pages.

Maryland and the District of Columbia in National Water Summary 1984, Hydrologic events--Selected water-quality trends, and ground-water resources, by L.J. McGreevy, and J.C. Wheeler: U.S. Geological Survey Water-Supply Paper 2275, 1989. pages 243-248.

Maryland and the District of Columbia water supply and use, by J.C. Wheeler, in National Water Summary 1987--Water supply and use: U.S. Geological Survey Water-Supply Paper 2350, 1989. pages 291-298.

Open-File Report

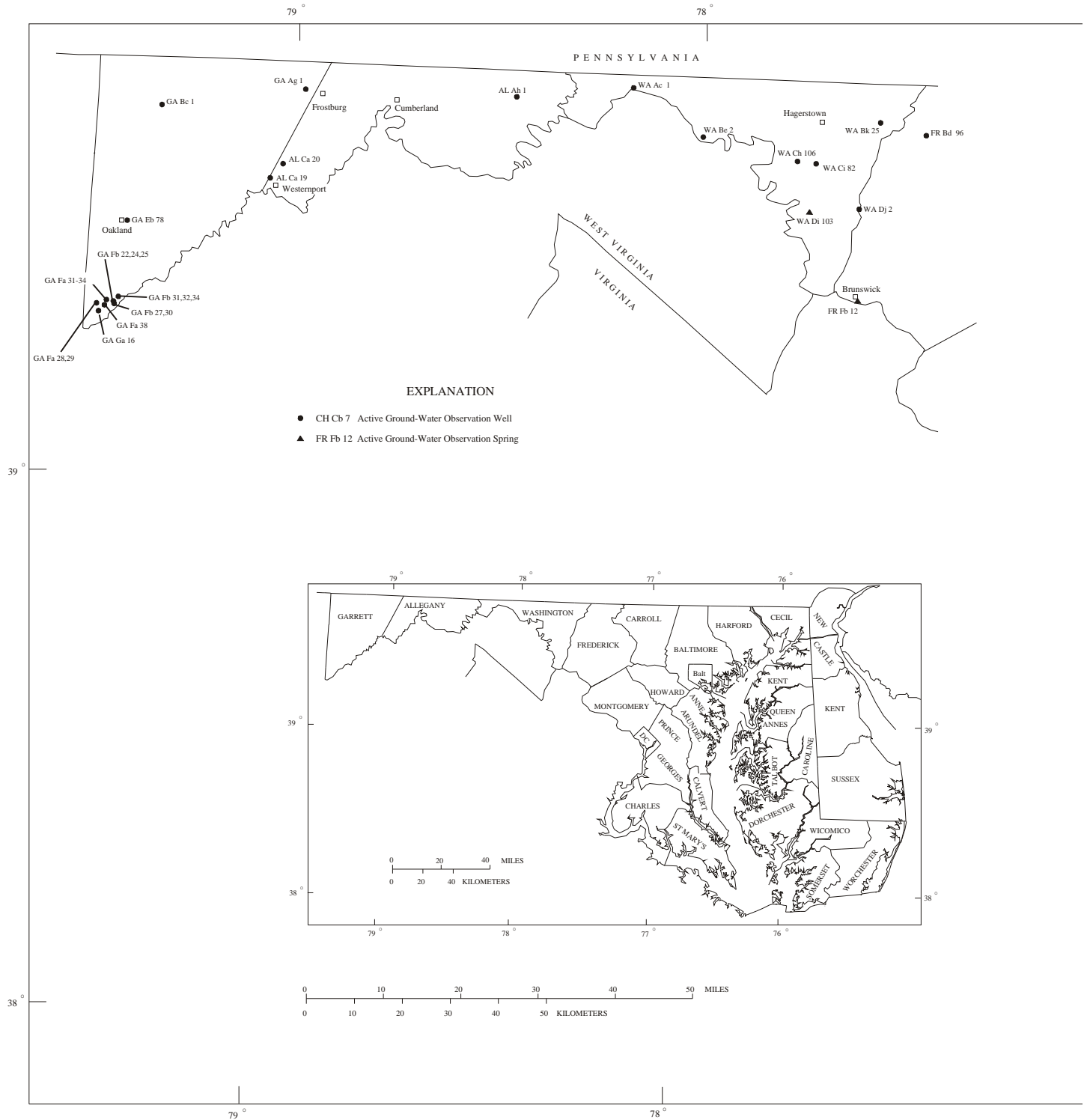
Maryland and the District of Columbia ground-water quality, by J.C. Wheeler and L.B. Maclin: U. S. Geological Survey Open-File Report 87-0730. 1988. 10 pages.

Circular

Water from the Coastal Plain aquifers in the Washington, D.C., metropolitan area, by S.S. Papadopoulos, R.R. Bennett, F.K. Mack, and P.C. Trescott: U.S. Geological Survey Circular 697. 1974. 11 pages.

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WATER RESOURCES DATA - MARYLAND AND DELAWARE, 2000



Base map modified from U.S. Geological Survey 1:100,000 DLG

Figure 5. Location of Maryland and Delaware ground-water network observation wells and springs.

WATER RESOURCES DATA - MARYLAND AND DELAWARE, 2000

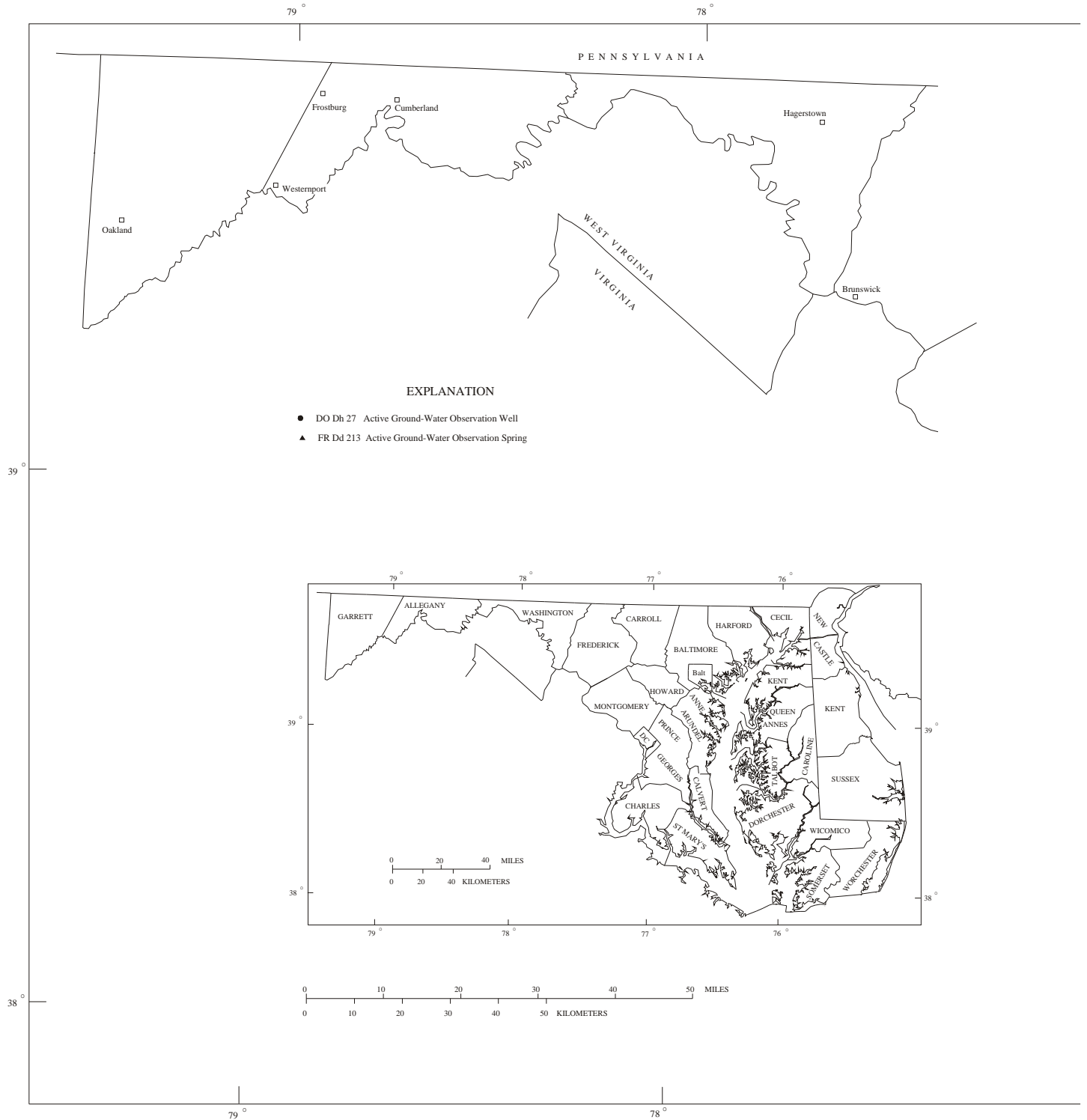
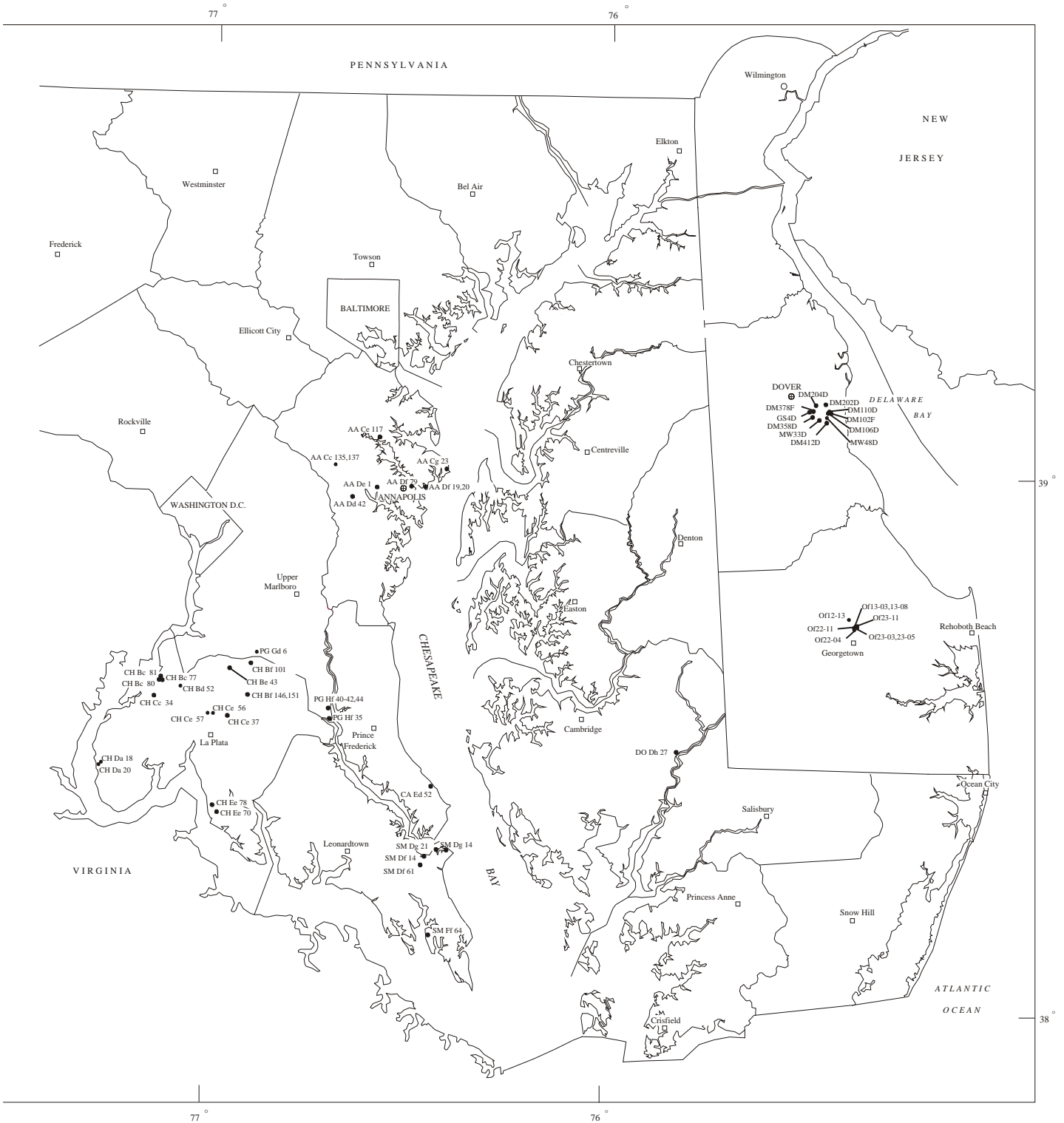
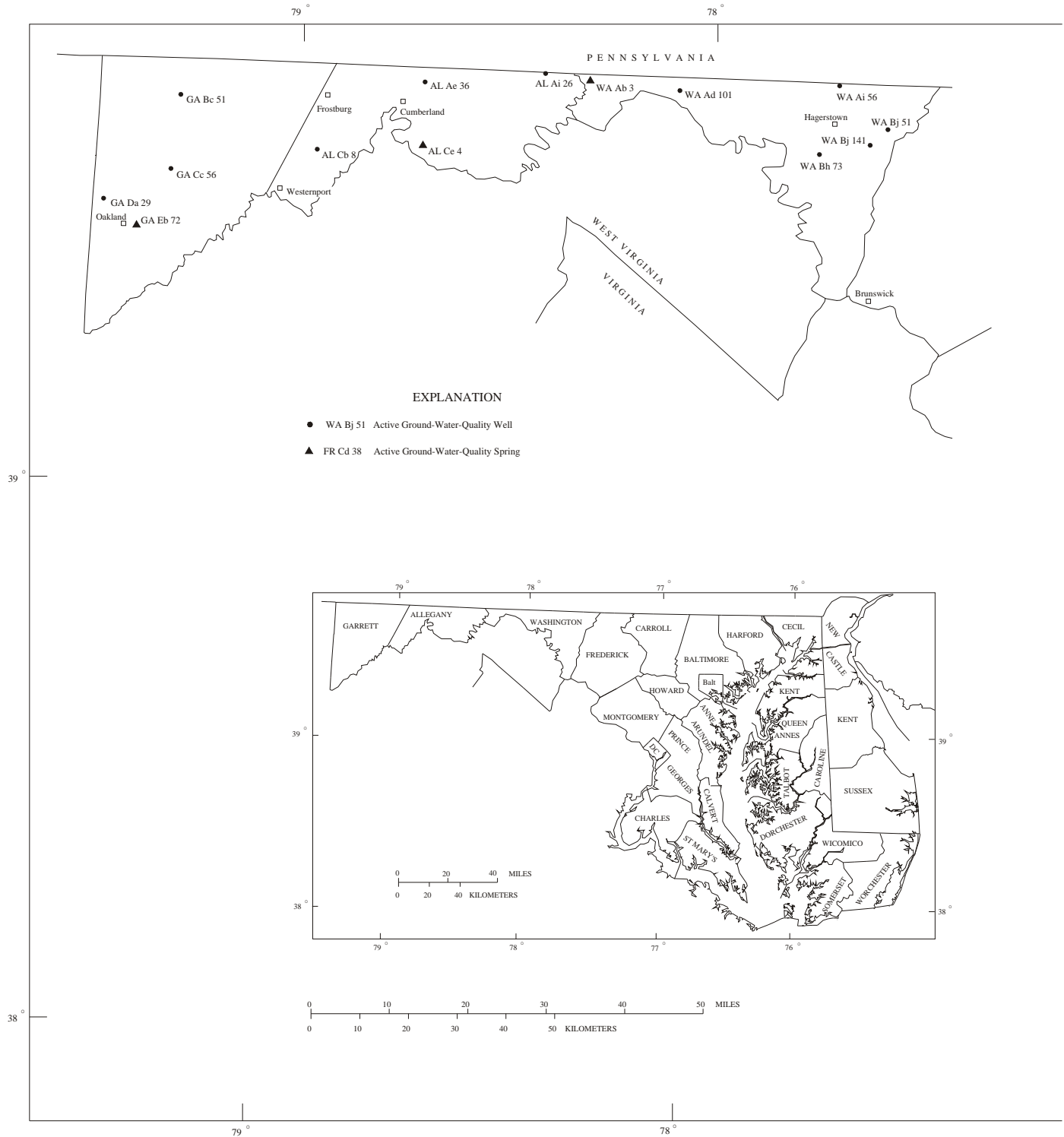


Figure 6. Location of Maryland and Delaware ground-water project observation wells and springs.



WATER RESOURCES DATA - MARYLAND AND DELAWARE, 2000



Base map modified from U.S. Geological Survey 1:100,000 DLG

Figure 7. Location of Maryland and Delaware ground-water-quality wells.

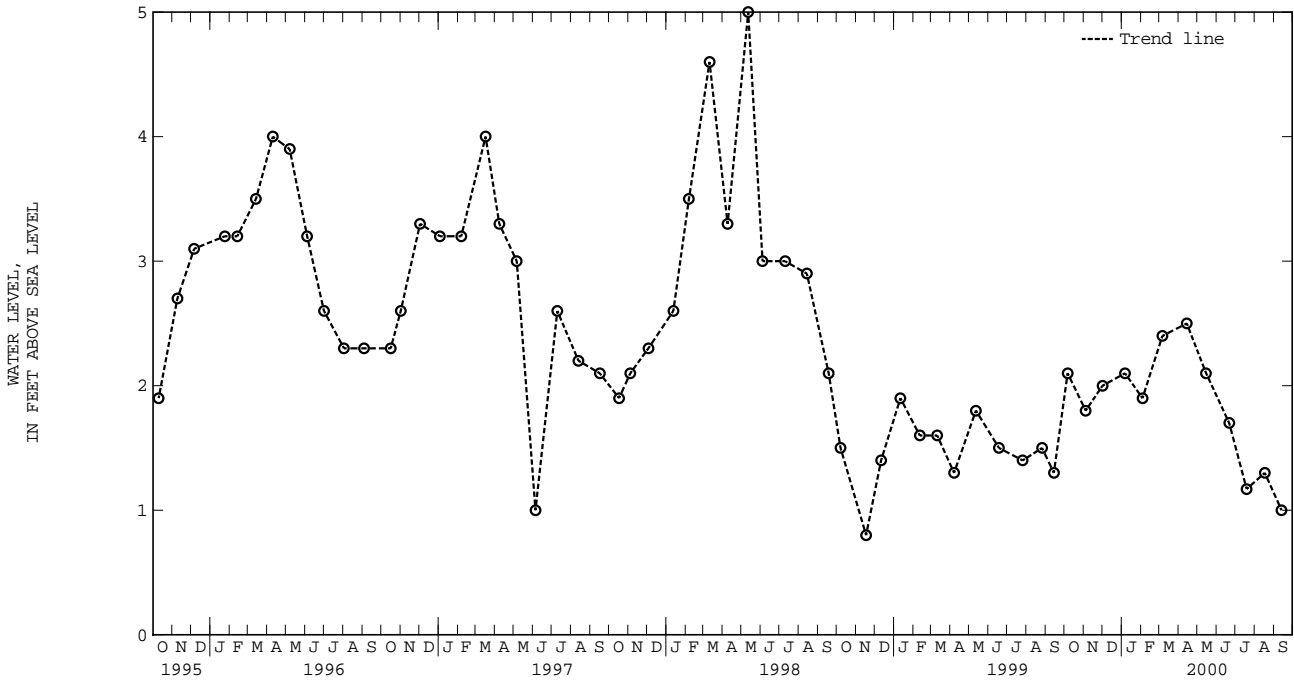
GROUND-WATER HYDROLOGIC DATA SITE RECORDS

GROUND-WATER SPRING DISCHARGE--IN MARYLAND--CECIL COUNTY

SPRING NUMBER.--CE Cc 40. SITE ID.--393459076045001.
 LOCATION.--Lat 39°34'59", long 76°04'50", Hydrologic Unit 02050306, 0.1 mi north of intersection of Cokesbury, and St. Marks Church Roads, 0.8 mi northeast of Perryman.
 Owner: John McMullen.
 AQUIFER.--James Run Formation, Frenchtown Member of Paleozoic age. Aquifer code: 300JMSR.
 SPRING IMPROVEMENTS.--2 in. outflow pipe.
 INSTRUMENTATION.--Monthly volumetric measurements by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 180 ft above sea level, from topographic map.
 REMARKS.--Maryland Water-Level and Water Quality Network observation spring. Temperature readings are available.
 PERIOD OF RECORD.--April 1981, August 1989 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 5.9 gal/min, June 7, 1990;
 minimum discharge measured, 0.8 gal/min, Nov. 17, 1998.

DISCHARGE, IN GALLONS PER MINUTE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DISCHARGE	DATE	DISCHARGE	DATE	DISCHARGE	DATE	DISCHARGE
OCT 6, 1999	2.1	JAN 6, 2000	2.1	APR 14, 2000	2.5	JUL 19, 2000	1.2
NOV 4,	1.8	FEB 3,	1.9	MAY 15,	2.1	AUG 17,	1.3
DEC 1,	2.0	MAR 6,	2.4	JUN 21,	1.7	SEP 13,	1.0
WATER YEAR 2000 MAXIMUM		2.5	APR 14, 2000 MINIMUM		1.0	SEP 13, 2000	

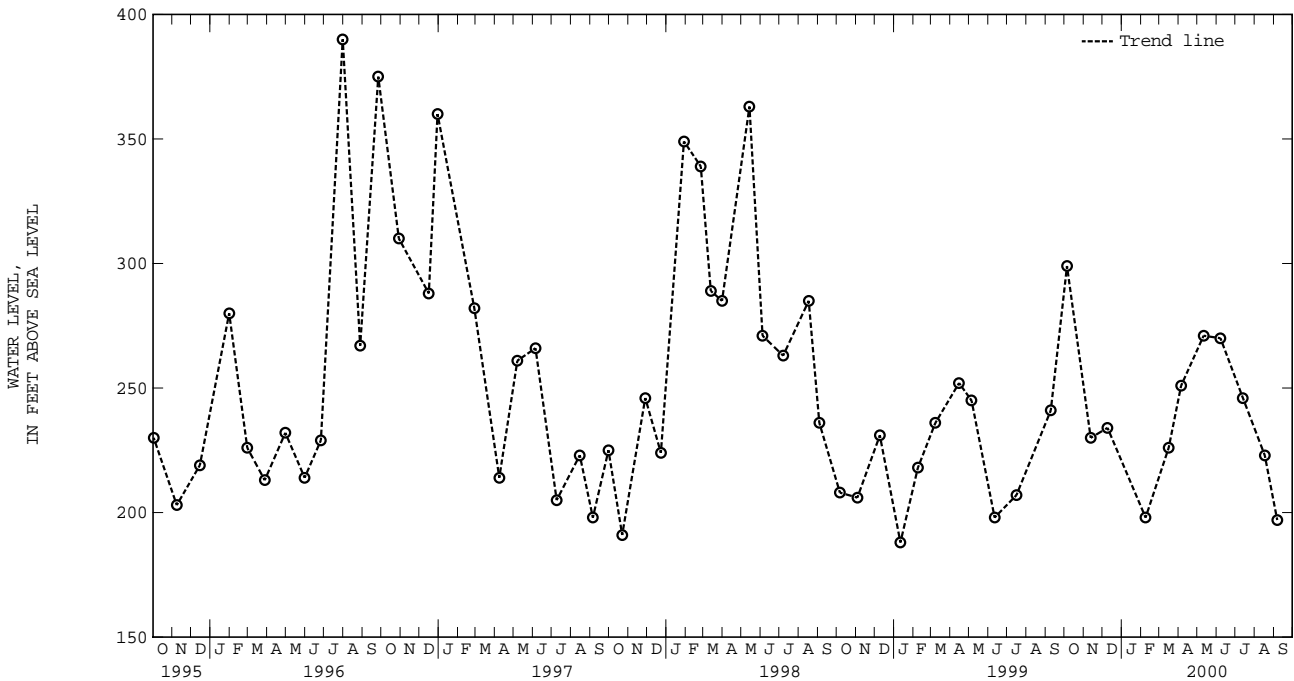


FREDERICK COUNTY

SPRING NUMBER.--FR Dd 178. SITE ID.--392552077262201.
 LOCATION.--Lat 39°25'52", long 77°26'22", Hydrologic Unit 02070009, at Frederick County Agricultural Extension Service (formerly Montview State Hospital).
 Owner: Frederick County.
 AQUIFER.--Frederick Limestone of Lower Cambrian age. Aquifer code: 377FDCK.
 SPRING IMPROVEMENTS.--Springhouse with discharge pipe.
 INSTRUMENTATION.--Monthly current meter discharge measurements by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 315 ft above sea level, from topographic map.
 REMARKS.--Maryland Water-Level and Water Quality Network observation spring. Temperature readings are available.
 PERIOD OF RECORD.--April 1981, February 1989, September 1989, April 1991 and March 1992 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 904 gal/min, May 6, 1993;
 minimum discharge measured, 180 gal/min, April 17, 1991.

DISCHARGE, IN GALLONS PER MINUTE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DISCHARGE	DATE	DISCHARGE	DATE	DISCHARGE	DATE	DISCHARGE
OCT 5, 1999	299	FEB 8, 2000	198	MAY 11, 2000	271	AUG 17, 2000	223
NOV 12,	230	MAR 16,	226	JUN 7,	270	SEP 6,	197
DEC 9,	234	APR 5,	251	JUL 13,	246		
WATER YEAR 2000	MAXIMUM	299	OCT 5, 1999	MINIMUM	197	SEP 6, 2000	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

FREDERICK COUNTY--Continued

SPRING NUMBER.--FR Fb 12. SITE ID.--391846077370501.

LOCATION.--Lat 39°18'46", long 77°37'05", Hydrologic Unit 02070008, at Brunswick, off Park Ave., 300 ft north of intersection with Potomac St.

Owner: Town of Brunswick.

AQUIFER.--Precambrian Erathem of Precambrian age. Aquifer code: 400PCMB.

SPRING IMPROVEMENTS.--2 in. outflow pipe.

INSTRUMENTATION.--Monthly volumetric measurements by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 300 ft above sea level, from topographic map.

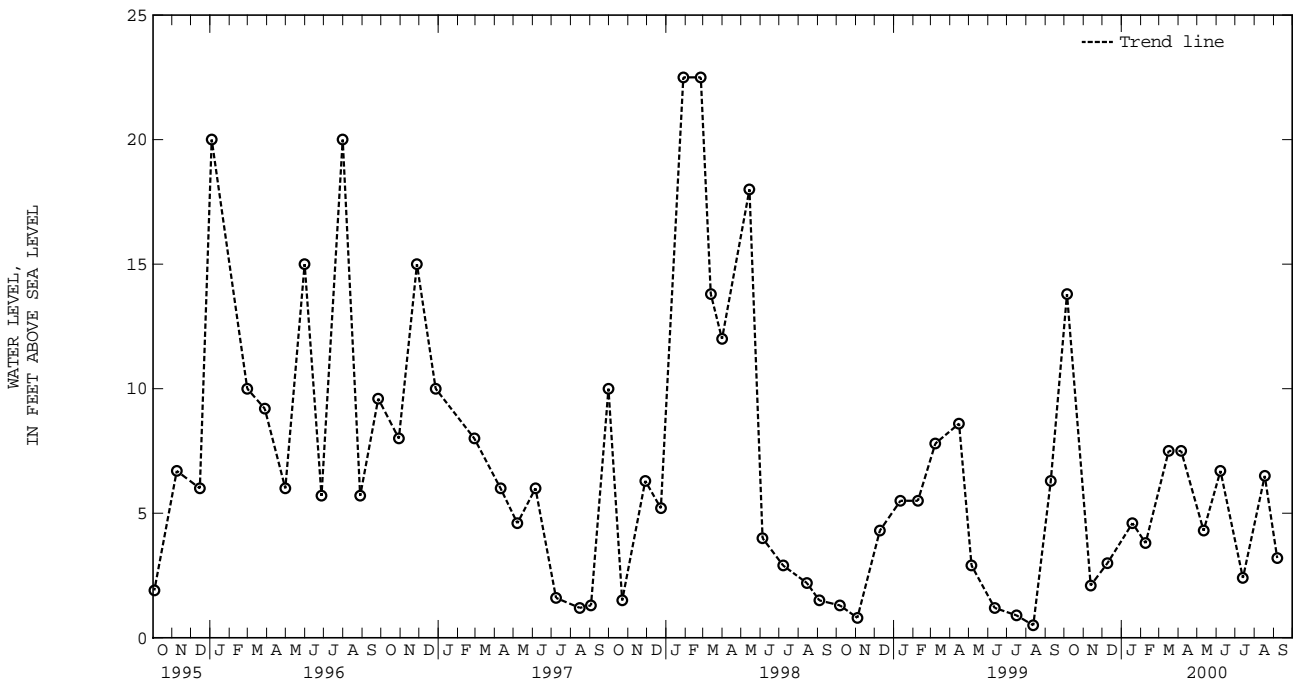
REMARKS.--Maryland Water-Level and Water Quality Network observation spring. Temperature readings are available.

PERIOD OF RECORD.--January 1960 to April 1964, March 1965, August 1967, December 1968, July 1972, April 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 36.0 gal/min, April 30, 1964; minimum discharge measured, 0.5 gal/min, Aug. 12, 1999.

DISCHARGE, IN GALLONS PER MINUTE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DISCHARGE	DATE	DISCHARGE	DATE	DISCHARGE	DATE	DISCHARGE
OCT 5, 1999	13.8	JAN 18, 2000	4.6	APR 5, 2000	7.5	JUL 13, 2000	2.4
NOV 12,	2.1	FEB 8,	3.8	MAY 11,	4.3	AUG 17,	6.5
DEC 9,	3.0	MAR 16,	7.5	JUN 7,	6.7	SEP 6,	3.2
WATER YEAR 2000		MAXIMUM 13.8		OCT 5, 1999		MINIMUM 2.1	
						NOV 12, 1999	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

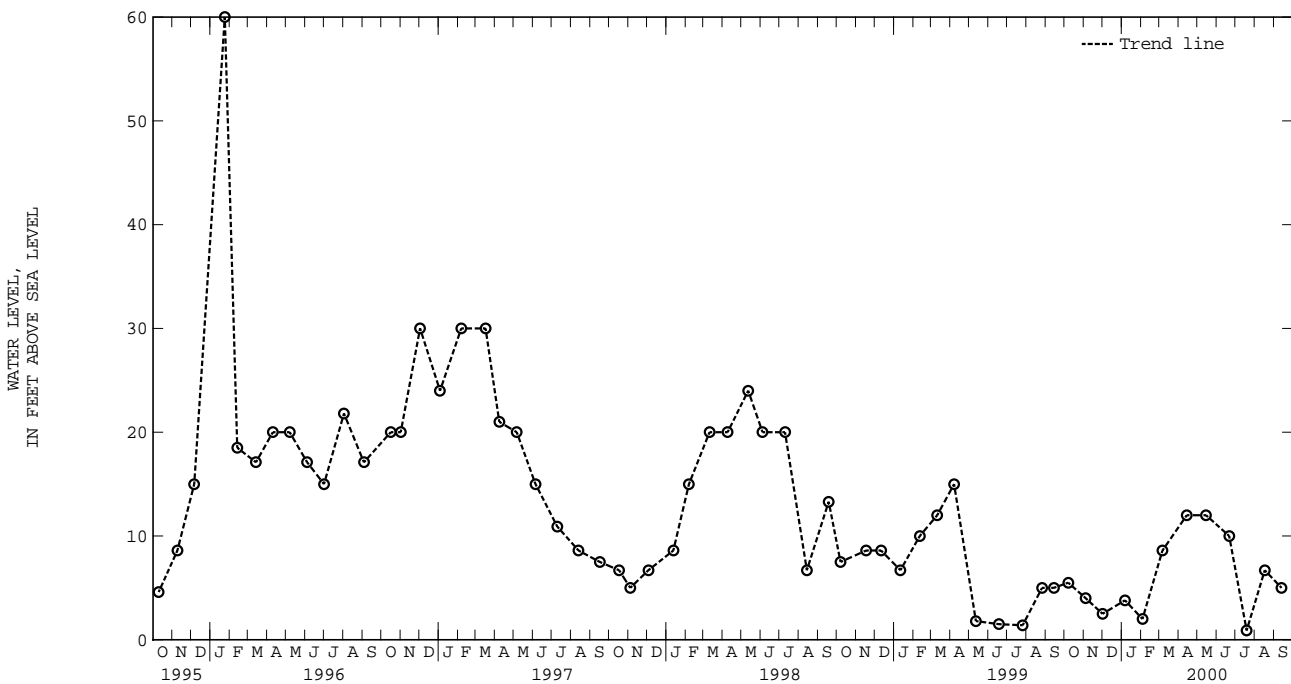
HARFORD COUNTY

SPRING NUMBER.--HA Aa 9. SITE ID.--394153076325701.
 LOCATION.--Lat 39°41'53", long 76°32'57", Hydrologic Unit 02050306, 30 ft south of Church Lane, 0.5 mi west of Norrisville.
 Owner: Milton Smith.
 AQUIFER.--Prettyboy Schist of Paleozoic age. Aquifer code: 300PTRB.
 SPRING IMPROVEMENTS.--4 in. plastic outflow pipe.
 INSTRUMENTATION.--Monthly volumetric measurements by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 640 ft above sea level, from topographic map.
 REMARKS.--Maryland Water-Level and Water Quality Network observation spring. Temperature readings are available.
 PERIOD OF RECORD.--October 1980, August 1989 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 60.0 gal/min, Jan. 24, 1996;
 minimum discharge measured, 1.4 gal/min, July 26, 1999.

DISCHARGE, IN GALLONS PER MINUTE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DISCHARGE	DATE	DISCHARGE	DATE	DISCHARGE	DATE	DISCHARGE
OCT 7, 1999	5.5	JAN 6, 2000	3.8	APR 14, 2000	12.0	JUL 19, 2000	.9
NOV 4,	4.0	FEB 3,	2.0	MAY 15,	12.0	AUG 17,	6.7
DEC 1,	2.5	MAR 6,	8.6	JUN 21,	10.0	SEP 13,	5.0

WATER YEAR 2000 MAXIMUM 12.0 APR 14, AND MAY 15, 2000 MINIMUM .9 JUL 19, 2000



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

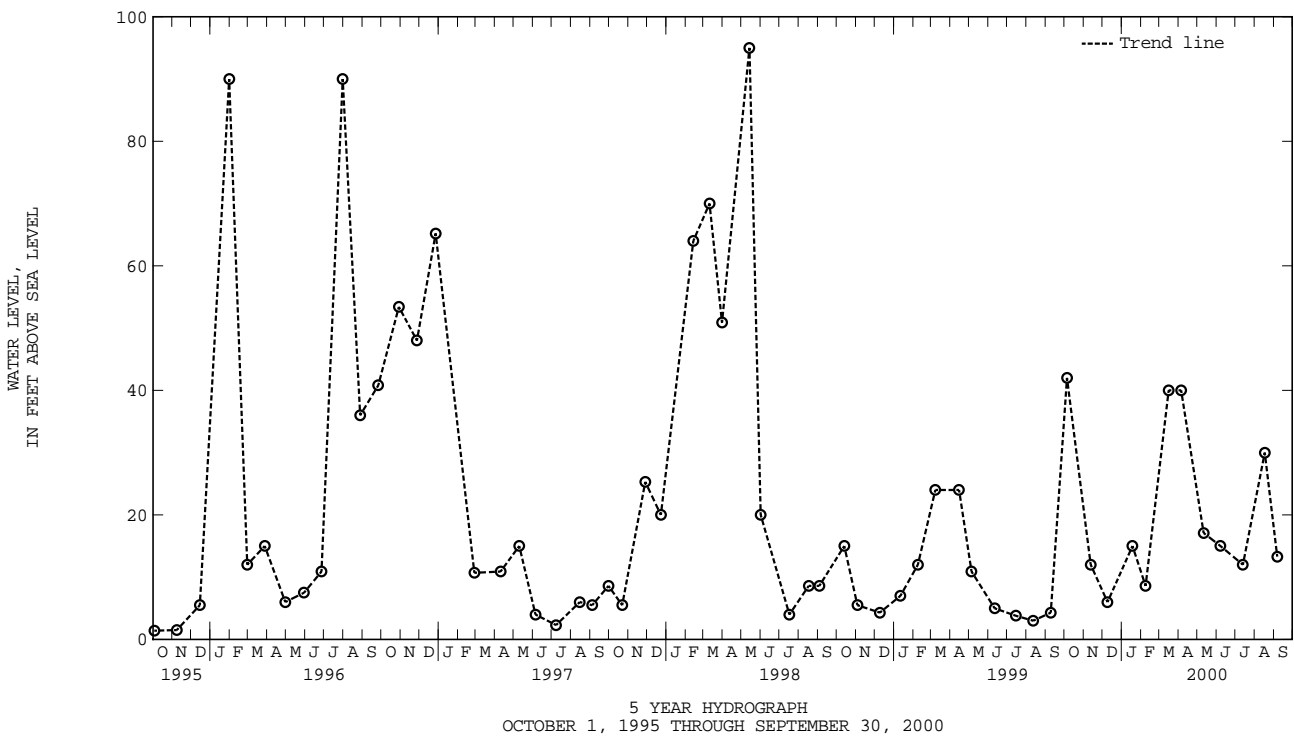
GROUND-WATER SPRING DISCHARGE IN MARYLAND--Continued

WASHINGTON COUNTY

SPRING NUMBER.--WA Di 103. SITE ID.--392836077442701.
 LOCATION.--Lat 39°28'36", long 77°44'27", Hydrologic Unit 02070004, 0.2 mi southeast of Smoketown Road and Mummas Lane, 1.0 mi north of Sharpsburg.
 Owner: National Park Service, Antietam National Battlefield.
 AQUIFER.--Conococheague Limestone of Upper Cambrian age. Aquifer code: 371CCCG.
 SPRING IMPROVEMENTS.--Springhouse with cement trough.
 INSTRUMENTATION.--Monthly volumetric discharge measurements by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 475 ft above sea level, from topographic map.
 REMARKS.--Maryland Water-Level and Water Quality Network observation spring. Temperature readings are available.
 PERIOD OF RECORD.--May 1969, April 1987, and January 1991 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 95.0 gal/min, May 14, 1998;
 minimum discharge measured, 0.3 gal/min, Oct. 4, 1991 and Nov. 7, 1991.

DISCHARGE, IN GALLONS PER MINUTE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DISCHARGE	DATE	DISCHARGE	DATE	DISCHARGE	DATE	DISCHARGE
OCT 5, 1999	42.0	JAN 18, 2000	15.0	APR 5, 2000	40.0	JUL 13, 2000	12.0
NOV 12,	12.0	FEB 8,	8.6	MAY 11,	17.1	AUG 17,	30.0
DEC 9,	6.0	MAR 16,	40.0	JUN 7,	15.0	SEP 6,	13.3
WATER YEAR 2000	MAXIMUM	42.0	OCT 5, 1999	MINIMUM	6.0	DEC 9, 1999	



KENT COUNTY

WELL NUMBER.--Jd42-03. SITE ID.--390607075331501. PERMIT NUMBER.--10230.

LOCATION.--Lat 39°06'07", long 75°33'15", Hydrologic Unit 02040207, 1 mi south of Camden.

Owner: Delaware Department of Transportation.

AQUIFER.--Columbia aquifer of Pleistocene age. Aquifer code: 112CLMB.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 11 ft; casing diameter 1.25 in., to 8.5 ft; well point from 8.5 to 11 ft.

INSTRUMENTATION.--Monthly measurements with electric or chalked steel tape by U.S. Geological Survey or Delaware Geological Survey personnel.

DATUM.--Elevation of land surface is 44 ft above sea level, from topographic map.

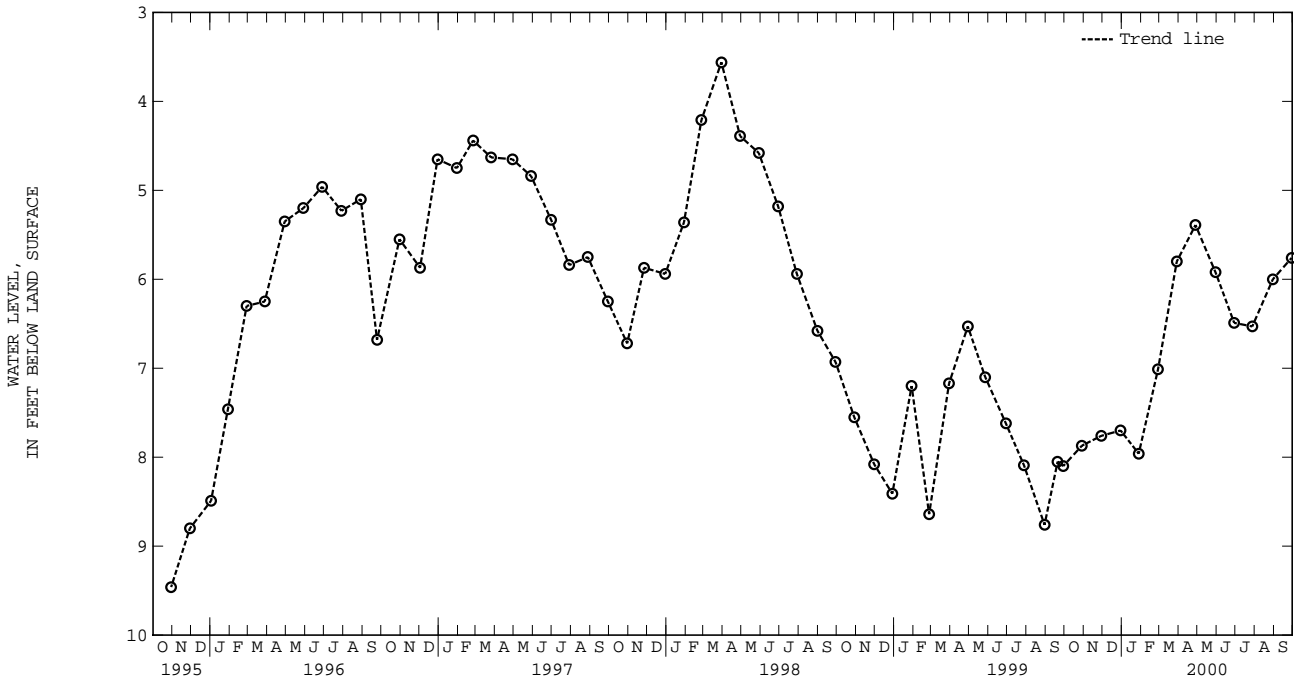
Measuring point: Top of casing at land surface.

PERIOD OF RECORD.--October 1950 to December 1961, August 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.69 ft below land surface, July 18, 1975; lowest measured, 10.10 ft below land surface, Nov. 28, 1986.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29, 1999	7.87	JAN 28, 2000	7.96	APR 28, 2000	5.39	JUL 28, 2000	6.53
NOV 29	7.76	FEB 28	7.01	MAY 30	5.92	AUG 30	6.00
DEC 30	7.70	MAR 29	5.80	JUN 29	6.49	SEP 29	5.76
WATER YEAR 2000 HIGHEST		5.39 APR 28, 2000		LOWEST		7.96 JAN 28, 2000	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

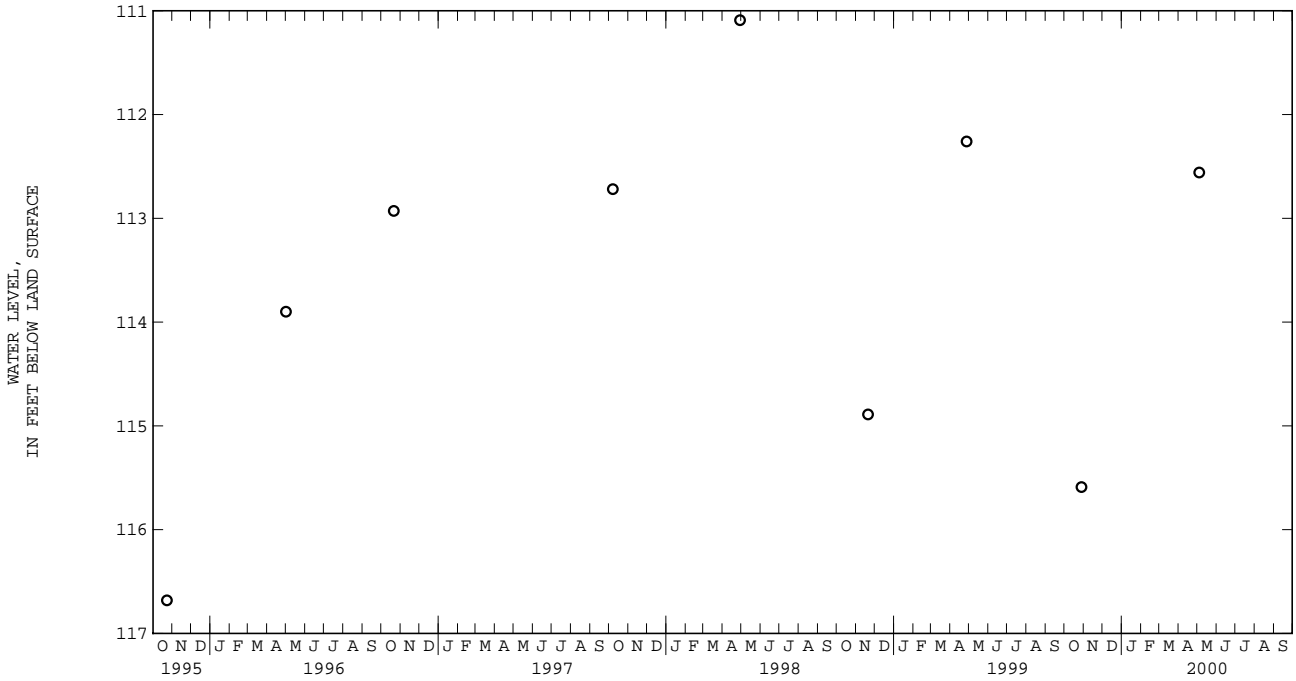
GROUND-WATER LEVELS IN DELAWARE

KENT COUNTY--Continued

WELL NUMBER.--Kc31-01. SITE ID.--390224075391601. PERMIT NUMBER.--33610.
 LOCATION.--Lat 39°02'24", long 75°39'16", Hydrologic Unit 02060005, 1.1 mi southwest of Petersburg, off Ironmine Rd.,
 at Norman G. Wilder State Wildlife Area.
 Owner: U.S. Geological Survey.
 AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 380 ft; casing diameter 2 in., to 370 ft;
 screen diameter 2 in. from 370 to 380 ft.
 INSTRUMENTATION.--Twice yearly measurements with chalked steel tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 55 ft above sea level, from topographic map.
 Measuring point: Top of casing, .20 ft above land surface.
 REMARKS.--No Spring 1997, water-level measurement.
 PERIOD OF RECORD.--February 1975 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 92.99 ft below land surface, Feb. 20, 1975;
 lowest measured, 116.77 ft below land surface, Oct. 29, 1991.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28, 1999	115.59	MAY 04, 2000	112.56
WATER YEAR 2000 HIGHEST 112.56 MAY 04, 2000		LOWEST 115.59 OCT 28, 1999	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN DELAWARE

61

KENT COUNTY--Continued

WELL NUMBER.--Mc51-01. SITE ID.--385041075395601.

LOCATION.--Lat 38°50'41", long 75°39'56", Hydrologic Unit 02060008, 1.3 mi northeast of Adamsville.

Owner: Delaware Department of Transportation.

AQUIFER.--Columbia aquifer of Pleistocene age. Aquifer code: 112CLMB.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 19 ft; casing diameter 2 in., to 15 ft; well point from 15 to 19 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by Delaware and U.S. Geological Survey personnel.

Equipped with digital water-level recorder--60 minute recorder interval from October 22, 1999 to current year.

DATUM.--Elevation of land surface is 55 ft above sea level, from topographic map.

Measuring point: Top of recorder platform, 4.09 ft above land surface.

REMARKS.--Delaware Water-Level Network observation well. U.S. Geological Survey water-level telemeter at well.

Missing data due to recorder malfunction. Periods of equal maximum and minimum daily values may be questionable due to the float hanging-up in small diameter wells or other well construction factors.

PERIOD OF RECORD.--September 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.28 ft below land surface, May 31, 1984; lowest measured, 16.29 ft below land surface, Jan. 19, 1988.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	10.92	10.89	11.88	11.88	12.16	12.13	12.54	12.53	11.73	11.68
2	---	---	10.90	10.74	11.91	11.88	12.14	12.11	12.58	12.54	11.68	11.65
3	---	---	11.02	10.82	11.93	11.91	12.15	12.12	12.58	12.54	11.66	11.64
4	---	---	11.10	11.02	11.97	11.93	12.14	12.06	12.58	12.54	11.64	11.63
5	---	---	11.12	11.10	11.97	11.96	12.26	12.13	12.62	12.58	11.64	11.63
6	---	---	11.10	11.09	11.99	11.95	12.27	12.23	12.62	12.62	11.66	11.64
7	---	---	11.13	11.09	12.07	11.99	12.23	12.19	12.63	12.59	11.68	11.65
8	---	---	11.17	11.13	12.10	12.07	12.27	12.22	12.68	12.63	11.68	11.62
9	---	---	11.18	11.16	12.11	12.09	12.24	12.21	12.66	12.60	11.62	11.57
10	---	---	11.19	11.16	12.12	12.00	12.21	12.03	12.60	12.55	11.69	11.60
11	---	---	11.31	11.18	12.13	12.12	12.25	12.19	12.58	12.52	11.69	11.60
12	---	---	11.31	11.27	12.16	12.13	12.31	12.25	12.59	12.56	11.74	11.58
13	---	---	11.29	11.27	12.17	12.16	12.35	12.16	12.56	12.43	11.78	11.74
14	---	---	11.31	11.18	12.17	12.09	12.37	12.35	12.43	12.35	11.77	11.77
15	---	---	11.32	11.30	12.18	12.13	12.38	12.33	12.43	12.38	11.77	11.76
16	---	---	11.40	11.32	12.14	12.12	12.33	12.25	12.42	12.32	11.76	11.64
17	---	---	11.47	11.40	12.19	12.14	12.35	12.30	12.36	12.33	11.83	11.64
18	---	---	11.54	11.47	12.18	12.17	12.35	12.33	12.36	12.22	11.87	11.83
19	---	---	11.55	11.53	12.18	12.14	12.33	12.33	12.22	12.18	11.85	11.82
20	---	---	11.56	11.53	12.14	12.05	12.34	12.24	12.20	12.18	11.82	11.81
21	---	---	11.60	11.56	12.12	12.07	12.40	12.34	12.18	12.14	11.81	11.08
22	10.95	10.79	11.63	11.60	12.11	12.10	12.44	12.40	12.14	12.09	11.08	10.75
23	10.87	10.80	11.66	11.63	12.11	12.05	12.44	12.42	12.09	11.97	10.75	10.49
24	10.94	10.87	11.68	11.66	12.06	12.06	12.46	12.38	11.97	11.90	10.49	10.42
25	10.98	10.93	11.70	11.68	12.09	12.06	12.42	12.27	11.90	11.87	10.42	10.02
26	10.93	10.86	11.71	11.68	12.06	11.93	12.47	12.42	11.87	11.83	10.02	10.01
27	10.91	10.86	11.76	11.71	12.02	11.97	12.51	12.47	11.83	11.74	10.01	9.68
28	10.94	10.91	11.82	11.76	12.02	11.98	12.55	12.51	11.75	11.74	9.68	9.65
29	10.92	10.91	11.84	11.82	12.05	11.98	12.56	12.55	11.74	11.73	9.65	9.64
30	10.95	10.92	11.88	11.84	12.06	12.03	12.56	12.43	---	---	9.64	9.63
31	10.94	10.89	---	---	12.13	12.06	12.53	12.44	---	---	9.65	9.62
MONTH	10.98	10.79	11.88	10.74	12.19	11.88	12.56	12.03	12.68	11.73	11.87	9.62

GROUND-WATER LEVELS IN DELAWARE

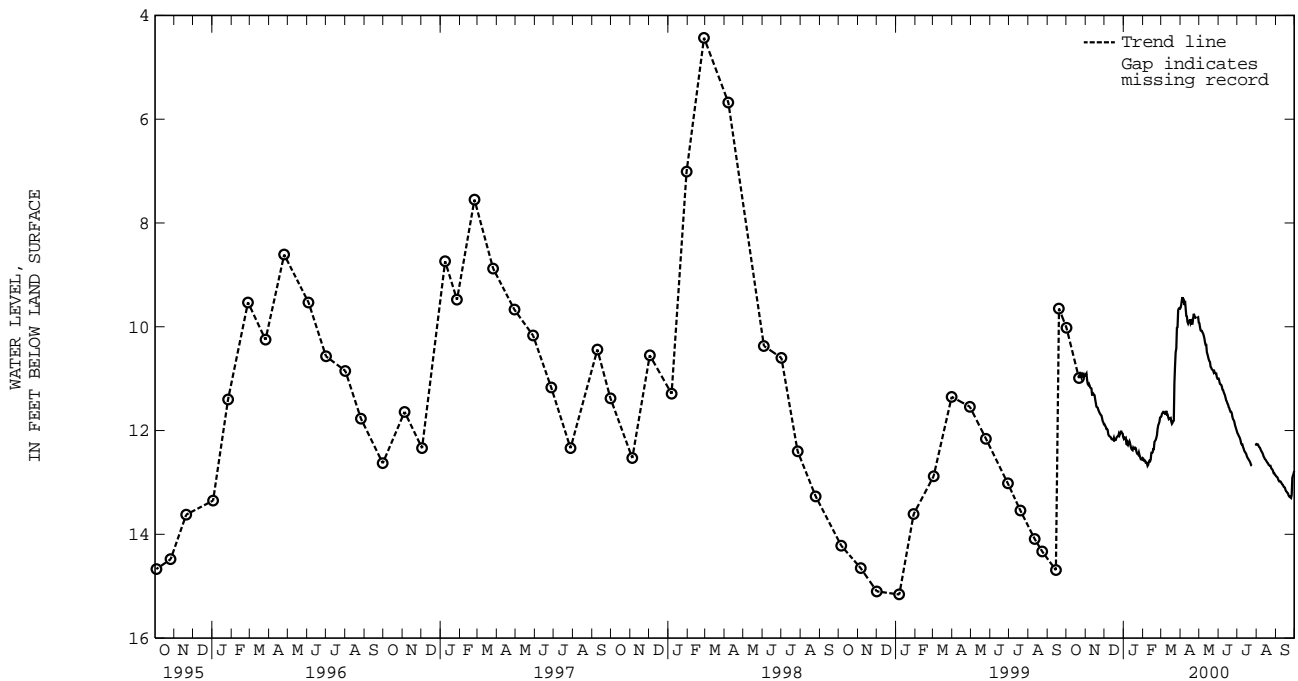
KENT COUNTY--Continued

Mc51-01--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.63	9.57	9.93	9.80	11.00	10.99	12.05	12.01	12.26	12.25	12.88	12.86
2	9.57	9.48	10.01	9.80	11.05	10.99	12.07	12.05	12.27	12.26	12.89	12.88
3	9.48	9.39	10.07	10.01	11.10	11.03	12.10	12.07	12.27	12.27	12.90	12.89
4	9.43	9.38	10.08	10.05	11.11	11.10	12.12	12.10	12.30	12.27	12.93	12.89
5	9.50	9.43	10.08	10.05	11.12	11.11	12.15	12.12	12.32	12.30	12.96	12.93
6	9.49	9.42	10.11	10.08	11.15	11.07	12.19	12.15	12.33	12.32	12.98	12.95
7	9.58	9.46	10.13	10.11	11.21	11.15	12.25	12.19	12.36	12.33	12.98	12.97
8	9.50	9.46	10.17	10.13	11.22	11.21	12.27	12.25	12.39	12.36	12.98	12.97
9	9.64	9.46	10.22	10.17	11.26	11.22	12.27	12.27	12.41	12.39	13.00	12.98
10	9.79	9.64	10.30	10.20	11.29	11.26	12.32	12.27	12.43	12.41	13.02	13.00
11	9.80	9.74	10.35	10.30	11.32	11.29	12.35	12.32	12.46	12.43	13.04	13.02
12	9.91	9.74	10.35	10.31	11.37	11.32	12.39	12.35	12.50	12.46	13.05	13.04
13	9.94	9.90	10.49	10.35	11.42	11.37	12.41	12.39	12.52	12.49	13.08	13.05
14	9.91	9.90	10.53	10.45	11.44	11.41	12.43	12.41	12.55	12.52	13.09	13.08
15	9.90	9.82	10.58	10.53	11.48	11.43	12.45	12.42	12.56	12.55	13.10	13.09
16	9.86	9.81	10.63	10.58	11.50	11.46	12.49	12.45	12.58	12.55	13.14	13.10
17	9.93	9.86	10.66	10.63	11.55	11.50	12.52	12.49	12.60	12.58	13.17	13.14
18	9.90	9.86	10.68	10.66	11.57	11.55	12.54	12.52	12.62	12.59	13.18	13.17
19	9.94	9.90	10.77	10.68	11.61	11.57	12.56	12.54	12.63	12.62	13.20	13.17
20	9.94	9.84	10.79	10.76	11.64	11.61	12.58	12.56	12.66	12.63	13.21	13.20
21	9.84	9.70	10.82	10.79	11.64	11.63	12.60	12.58	12.67	12.65	13.25	13.21
22	9.75	9.71	10.83	10.82	11.67	11.64	12.63	12.60	12.68	12.67	13.27	13.25
23	9.78	9.75	10.84	10.81	11.74	11.67	12.67	12.63	12.68	12.67	13.27	13.27
24	9.82	9.78	10.88	10.79	11.78	11.74	12.68	12.67	12.72	12.67	13.29	13.27
25	9.82	9.77	10.86	10.83	11.80	11.78	---	---	12.74	12.72	13.30	13.24
26	9.84	9.80	10.89	10.86	11.83	11.80	---	---	12.75	12.74	13.24	12.91
27	---	---	10.90	10.87	11.89	11.83	---	---	12.78	12.75	12.91	12.87
28	9.80	9.78	10.90	10.86	11.93	11.89	---	---	12.82	12.78	12.87	12.83
29	9.81	9.79	10.97	10.90	11.97	11.93	12.27	12.26	12.82	12.81	12.83	12.78
30	9.92	9.81	11.00	10.97	12.01	11.97	12.27	12.26	12.85	12.82	12.78	12.71
31	---	---	11.00	10.98	---	---	12.27	12.25	12.86	12.85	---	---
MONTH	9.94	9.38	11.00	9.80	12.01	10.99	12.68	12.01	12.86	12.25	13.30	12.71
YEAR	13.30	9.38										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

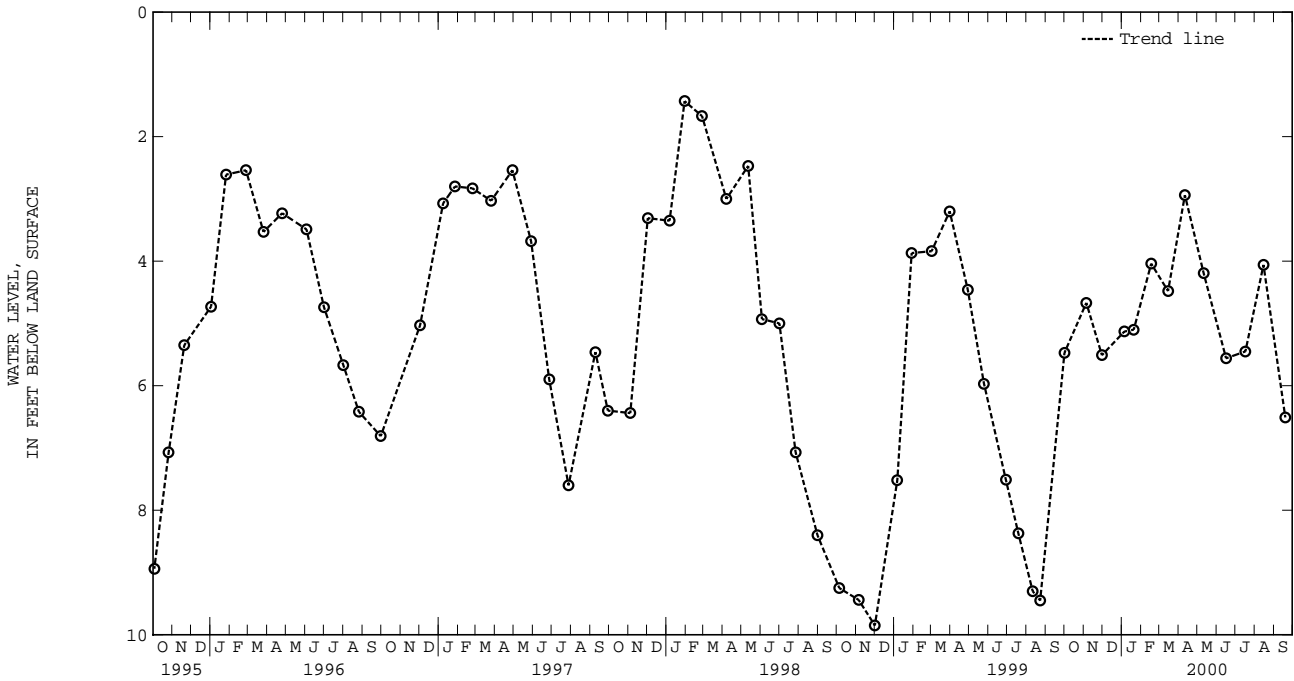
GROUND-WATER LEVELS IN DELAWARE

KENT COUNTY--Continued

WELL NUMBER.--MG22-01. SITE ID.--385310075331301. PERMIT NUMBER.--10221.
 LOCATION.--Lat 38°53'10", long 75°33'13", Hydrologic Unit 02040207, 2.4 mi west of Williamsville.
 Owner: Delaware Department of Transportation.
 AQUIFER.--Columbia aquifer of Pleistocene age. Aquifer code: 112CLMB
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 17 ft; casing diameter 1 in., to 14 ft;
 well point from 14 to 17 ft.
 INSTRUMENTATION.--Monthly measurements with electric or chalked steel tape by Delaware Geological Survey personnel.
 DATUM.--Elevation of land surface is 58 ft above sea level, from topographic map.
 Measuring point: Top of casing at land surface.
 REMARKS.--Delaware Water-Level Network observation well.
 PERIOD OF RECORD.--September 1958 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.07 ft below land surface, July 14, 1975;
 lowest measured, 11.14 ft below land surface, Jan. 6, 1966.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01, 1999	5.47	JAN 20, 2000	5.10	MAY 11, 2000	4.19	SEP 19, 2000	6.51
NOV 05	4.67	FEB 17	4.04	JUN 16	5.56		
30	5.51	MAR 15	4.48	JUL 17	5.45		
JAN 05, 2000	5.13	APR 11	2.94	AUG 15	4.06		
WATER YEAR 2000 HIGHEST		2.94	APR 11, 2000	LOWEST		6.51	SEP 19, 2000



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN DELAWARE

KENT COUNTY--Continued

WELL NUMBER.--DM102F. SITE ID.--390733075264801. PERMIT NUMBER.--96950.

LOCATION.--Lat 39°07'33", long 75°26'48", Hydrologic Unit 02040207, at Dover Air Force Base, Dover.

Owner: U.S. Air Force.

AQUIFER.--Frederica aquifer of Miocene age. Aquifer code: 122FRDC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 112.5 ft; casing diameter 3 in., to 102.5 ft; screen diameter 2 in. from 102.5 to 112.5 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from Oct. 1, 1995, to current year.

DATUM.--Altitude of land surface is 18.54 ft above sea level.

Measuring Point: Top of recorder platform 2.32 ft above land surface.

REMARKS.--Dover Air Force Base Project observation well. Water levels may be affected by agricultural irrigation.

Periods of equal maximum and minimum daily values may be questionable due to the float hanging-up in small diameter wells or other well construction factors.

PERIOD OF RECORD.--October 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.00 ft above sea level, March 22, 26-30, 1998; lowest measured, 5.49 ft below sea level, July 29, 1999.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
(READINGS BELOW SEA LEVEL INDICATED BY "-")

DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH										
1	2.59	2.58	3.25	3.23	3.63	3.63	4.08	4.08	4.32	4.31	5.08	5.00				
2	2.60	2.59	3.44	3.25	3.63	3.63	4.08	4.08	4.31	4.29	5.10	5.08				
3	2.62	2.60	3.44	3.40	3.64	3.63	4.08	4.08	4.29	4.29	5.12	5.10				
4	2.69	2.62	3.40	3.38	3.65	3.64	4.14	4.08	4.29	4.29	5.13	5.12				
5	2.71	2.69	3.38	3.38	3.65	3.65	4.15	4.13	4.29	4.29	5.15	5.13				
6	2.72	2.71	3.40	3.38	3.72	3.65	4.13	4.13	4.29	4.26	5.15	5.14				
7	2.73	2.72	3.40	3.40	3.72	3.72	4.13	4.13	4.26	4.26	5.15	5.14				
8	2.73	2.72	3.40	3.40	3.72	3.72	4.13	4.13	4.26	4.25	5.15	5.15				
9	2.76	2.73	3.42	3.40	3.72	3.72	4.13	4.13	4.26	4.25	5.17	5.15				
10	2.83	2.76	3.46	3.42	3.76	3.72	4.23	4.13	4.28	4.26	5.17	5.16				
11	2.84	2.83	3.46	3.46	3.76	3.76	4.23	4.21	4.30	4.28	5.17	5.16				
12	2.84	2.84	3.46	3.46	3.76	3.76	4.21	4.20	4.29	4.28	5.22	5.17				
13	2.89	2.84	3.47	3.46	3.76	3.76	4.20	4.19	4.32	4.28	5.19	5.17				
14	2.90	2.89	3.53	3.47	3.90	3.76	4.19	4.15	4.39	4.32	5.17	5.17				
15	2.90	2.89	3.55	3.53	3.89	3.88	4.15	4.15	4.39	4.38	5.17	5.16				
16	2.90	2.89	3.55	3.55	3.88	3.88	4.18	4.15	4.39	4.38	5.19	5.16				
17	2.98	2.90	3.55	3.54	3.88	3.88	4.18	4.17	4.39	4.38	5.22	5.16				
18	3.00	2.98	3.54	3.54	3.88	3.88	4.18	4.17	4.53	4.38	5.16	5.15				
19	3.00	2.97	3.54	3.53	3.88	3.88	4.18	4.18	4.58	4.53	5.15	5.15				
20	3.05	2.97	3.53	3.53	3.93	3.88	4.25	4.18	4.58	4.57	5.15	5.15				
21	3.06	3.05	3.53	3.53	3.93	3.93	4.25	4.24	4.59	4.57	5.35	5.15				
22	3.14	3.06	3.53	3.53	3.94	3.93	4.24	4.22	4.65	4.59	5.40	5.35				
23	3.16	3.14	3.53	3.53	3.97	3.94	4.22	4.22	4.72	4.65	5.41	5.38				
24	3.16	3.16	3.54	3.53	3.98	3.97	4.22	4.22	4.78	4.72	5.49	5.41				
25	3.16	3.16	3.55	3.54	3.99	3.98	4.36	4.22	4.85	4.78	5.63	5.49				
26	3.16	3.16	3.60	3.55	4.07	3.99	4.36	4.35	4.88	4.85	5.69	5.63				
27	3.16	3.16	3.64	3.60	4.07	4.07	4.35	4.29	4.96	4.88	5.86	5.69				
28	3.17	3.16	3.64	3.64	4.08	4.07	4.29	4.28	4.99	4.96	5.90	5.86				
29	3.18	3.17	3.64	3.63	4.08	4.08	4.28	4.25	5.00	4.99	5.90	5.89				
30	3.19	3.18	3.63	3.63	4.08	4.08	4.32	4.25	---	---	5.93	5.90				
31	3.23	3.19	---	---	4.08	4.08	4.32	4.32	---	---	5.95	5.93				
MONTH	3.23	2.58	3.64	3.23	4.08	3.63	4.36	4.08	5.00	4.25	5.95	5.00				

GROUND-WATER LEVELS IN DELAWARE

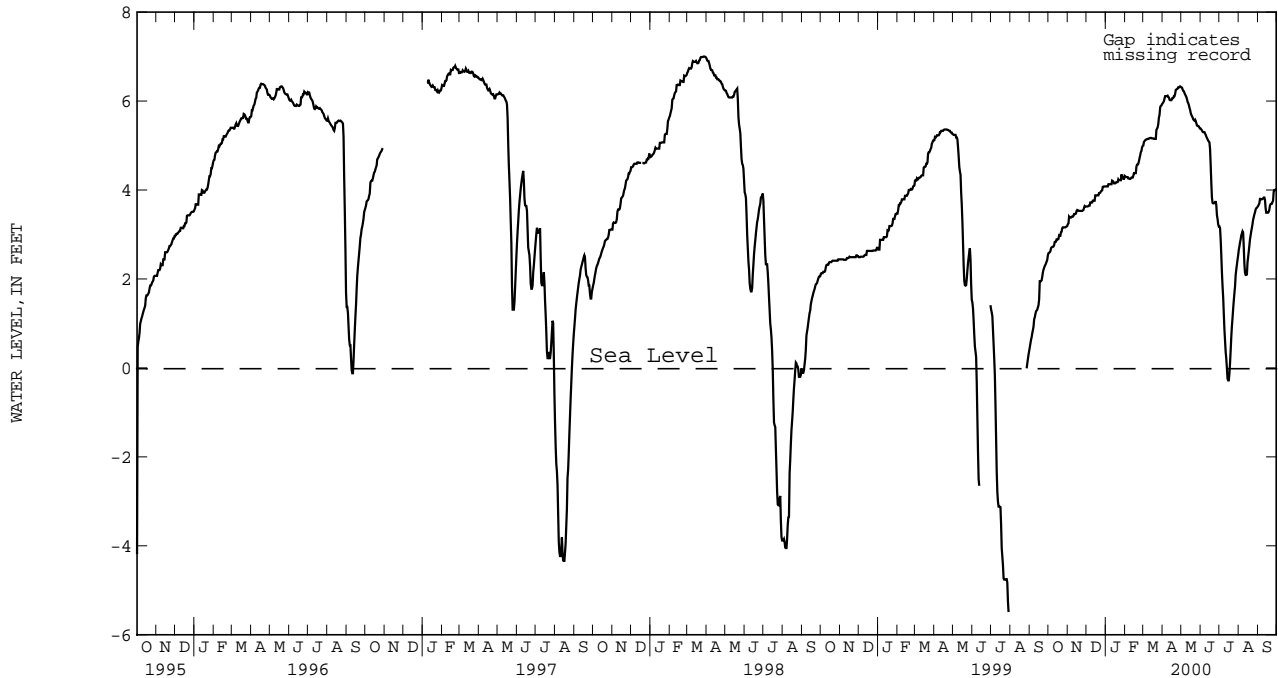
KENT COUNTY--Continued

DM102F--Continued

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
(READINGS BELOW SEA LEVEL INDICATED BY "-")

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.97	5.95	6.32	6.31	5.38	5.38	3.18	3.18	2.73	2.65	3.67	3.64
2	6.00	5.97	6.32	6.30	5.38	5.36	3.18	3.14	2.82	2.73	3.70	3.67
3	6.06	6.00	6.30	6.26	5.36	5.34	3.14	2.88	2.89	2.82	3.80	3.70
4	6.12	6.06	6.26	6.23	5.34	5.31	2.88	2.54	2.98	2.89	3.81	3.80
5	6.12	6.11	6.23	6.22	5.31	5.30	2.54	2.14	3.02	2.98	3.81	3.80
6	6.12	6.11	6.22	6.18	5.33	5.30	2.14	1.84	3.07	3.02	3.80	3.79
7	6.12	6.11	6.18	6.15	5.33	5.30	1.84	1.58	3.11	3.07	3.80	3.79
8	6.12	6.11	6.15	6.12	5.30	5.27	1.58	1.22	3.11	3.04	3.81	3.80
9	6.14	6.12	6.12	6.09	5.27	5.24	1.22	.87	3.04	2.73	3.83	3.81
10	6.12	6.09	6.09	6.04	5.24	5.20	.87	.61	2.73	2.34	3.83	3.83
11	6.09	6.08	6.04	5.98	5.20	5.17	.61	.36	2.34	2.14	3.84	3.83
12	6.08	6.03	5.98	5.95	5.17	5.14	.36	.21	2.14	2.09	3.84	3.78
13	6.03	6.02	5.95	5.91	5.14	5.11	.21	-.01	2.10	2.09	3.78	3.60
14	6.02	6.02	5.91	5.85	5.11	5.09	-.01	-.24	2.37	2.10	3.60	3.49
15	6.06	6.02	5.85	5.80	5.09	5.07	-.24	-.28	2.49	2.37	3.49	3.49
16	6.06	6.06	5.80	5.73	5.07	4.92	-.13	-.28	2.62	2.49	3.49	3.49
17	6.07	6.06	5.73	5.69	4.92	4.55	.11	-.13	2.75	2.62	3.51	3.49
18	6.11	6.07	5.69	5.66	4.55	4.15	.39	.11	2.89	2.75	3.56	3.51
19	6.11	6.11	5.66	5.63	4.15	3.83	.70	.39	2.98	2.89	3.65	3.56
20	6.16	6.11	5.63	5.59	3.83	3.71	.94	.70	3.07	2.98	3.68	3.65
21	6.25	6.16	5.59	5.57	3.71	3.70	1.12	.94	3.15	3.07	3.69	3.68
22	6.26	6.25	5.58	5.56	3.71	3.70	1.33	1.12	3.23	3.15	3.69	3.69
23	6.27	6.26	5.58	5.58	3.71	3.71	1.51	1.33	3.33	3.23	3.73	3.69
24	6.28	6.27	5.58	5.55	3.75	3.71	1.68	1.51	3.39	3.33	3.76	3.73
25	6.31	6.28	5.55	5.50	3.79	3.75	1.83	1.68	3.45	3.39	3.96	3.76
26	6.31	6.31	5.50	5.45	3.79	3.66	2.08	1.83	3.50	3.45	4.00	3.96
27	6.31	6.31	5.45	5.44	3.66	3.43	2.21	2.08	3.56	3.50	4.00	4.00
28	6.33	6.31	5.45	5.44	3.43	3.35	2.32	2.21	3.59	3.56	4.00	4.00
29	6.33	6.33	5.45	5.43	3.35	3.23	2.43	2.32	3.60	3.59	4.03	4.00
30	6.33	6.32	5.43	5.40	3.23	3.18	2.53	2.43	3.62	3.60	4.09	4.03
31	---	---	5.40	5.38	---	---	2.65	2.53	3.64	3.62	---	---
MONTH	6.33	5.95	6.32	5.38	5.38	3.18	3.18	-.28	3.64	2.09	4.09	3.49
YEAR	6.33	-.28										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN DELAWARE

KENT COUNTY--Continued

WELL NUMBER.--DM106D. SITE ID.--390734075271402. PERMIT NUMBER.--96636.

LOCATION.--Lat 39°07'34", long 75°27'14", Hydrologic Unit 02040207, at Dover Air Force Base, Dover.

Owner: U.S. Air Force.

AQUIFER.--Columbia aquifer of Pleistocene age. Aquifer code: 112CLMB.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 82 ft; casing diameter 2 in., to 72 ft; screen diameter 2 in. from 72 to 82 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from Oct. 25, 1996, to current year.

DATUM.--Altitude of land surface is 23.51 ft above sea level.

Measuring Point: Top of recorder platform 3.60 ft above land surface.

REMARKS.--Dover Air Force Base Project observation well.

Periods of equal maximum and minimum daily values may be questionable due to the float hanging-up in small diameter wells or other well construction factors.

PERIOD OF RECORD.--December 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.42 ft above sea level, March 22, 1998; lowest measured, 7.97 ft above sea level, Jan. 1, 2, 1999.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.63	9.62	9.69	9.68	9.65	9.60	10.08	10.04	10.15	10.11	12.66	12.47
2	9.62	9.61	9.92	9.68	9.65	9.64	10.13	10.04	10.12	10.04	12.66	12.56
3	9.61	9.60	9.85	9.65	9.65	9.65	10.13	10.10	10.24	10.05	12.56	12.54
4	9.62	9.60	9.65	9.64	9.66	9.64	10.26	10.11	10.24	10.21	12.54	12.53
5	9.62	9.61	9.74	9.65	9.67	9.64	10.20	9.97	10.21	10.10	12.53	12.35
6	9.61	9.58	9.82	9.74	9.70	9.67	10.05	9.97	10.13	10.03	12.35	12.25
7	9.58	9.52	9.82	9.76	9.70	9.57	10.16	10.05	10.22	10.13	12.36	12.20
8	9.54	9.52	9.79	9.78	9.57	9.56	10.15	10.11	10.19	10.06	12.38	12.36
9	9.55	9.54	9.84	9.79	9.62	9.56	10.20	10.15	10.35	10.19	12.38	12.37
10	9.60	9.55	9.87	9.84	9.77	9.62	10.46	10.20	10.45	10.35	12.37	12.17
11	9.60	9.52	9.87	9.70	9.65	9.63	10.29	10.13	10.52	10.41	12.25	12.17
12	9.52	9.51	9.80	9.70	9.64	9.63	10.13	10.06	10.44	10.39	12.30	12.06
13	9.64	9.51	9.82	9.80	9.65	9.64	10.33	10.06	10.68	10.44	12.06	11.98
14	9.65	9.49	9.95	9.82	9.86	9.65	10.06	10.04	10.88	10.68	12.02	11.98
15	9.49	9.49	9.85	9.84	9.83	9.74	10.13	10.03	10.74	10.65	12.07	12.02
16	9.51	9.49	9.85	9.76	9.86	9.83	10.37	10.13	10.92	10.66	12.27	12.07
17	9.62	9.51	9.76	9.69	9.87	9.85	10.19	10.09	10.81	10.67	12.30	11.94
18	9.62	9.43	9.69	9.66	9.87	9.87	10.28	10.13	11.16	10.70	11.94	11.91
19	9.43	9.43	9.67	9.66	9.93	9.87	10.28	10.27	11.39	11.16	12.02	11.91
20	9.52	9.43	9.73	9.67	10.10	9.93	10.40	10.27	11.61	11.39	12.06	12.02
21	9.57	9.52	9.72	9.69	10.09	10.02	10.28	10.13	11.75	11.61	12.63	12.06
22	9.71	9.57	9.69	9.65	10.02	10.02	10.13	10.02	11.85	11.75	13.85	12.63
23	9.69	9.63	9.65	9.65	10.13	10.02	10.12	10.02	11.98	11.85	14.19	13.85
24	9.63	9.61	9.65	9.65	10.12	10.10	10.21	10.10	12.06	11.98	14.23	14.19
25	9.61	9.57	9.65	9.65	10.13	10.07	10.43	10.19	12.06	12.04	14.40	14.23
26	9.67	9.59	9.71	9.65	10.32	10.13	10.19	10.05	12.18	12.04	14.40	14.40
27	9.67	9.62	9.71	9.67	10.24	10.16	10.05	9.96	12.48	12.18	14.54	14.37
28	9.63	9.62	9.67	9.60	10.22	10.16	9.96	9.94	12.49	12.46	14.74	14.54
29	9.64	9.63	9.61	9.59	10.22	10.11	9.95	9.95	12.47	12.44	14.73	14.56
30	9.64	9.63	9.61	9.60	10.14	10.11	10.25	9.95	---	---	14.56	14.53
31	9.69	9.63	---	---	10.13	10.08	10.25	10.11	---	---	14.53	14.44
MONTH	9.71	9.43	9.95	9.59	10.32	9.56	10.46	9.94	12.49	10.03	14.74	11.91

GROUND-WATER LEVELS IN DELAWARE

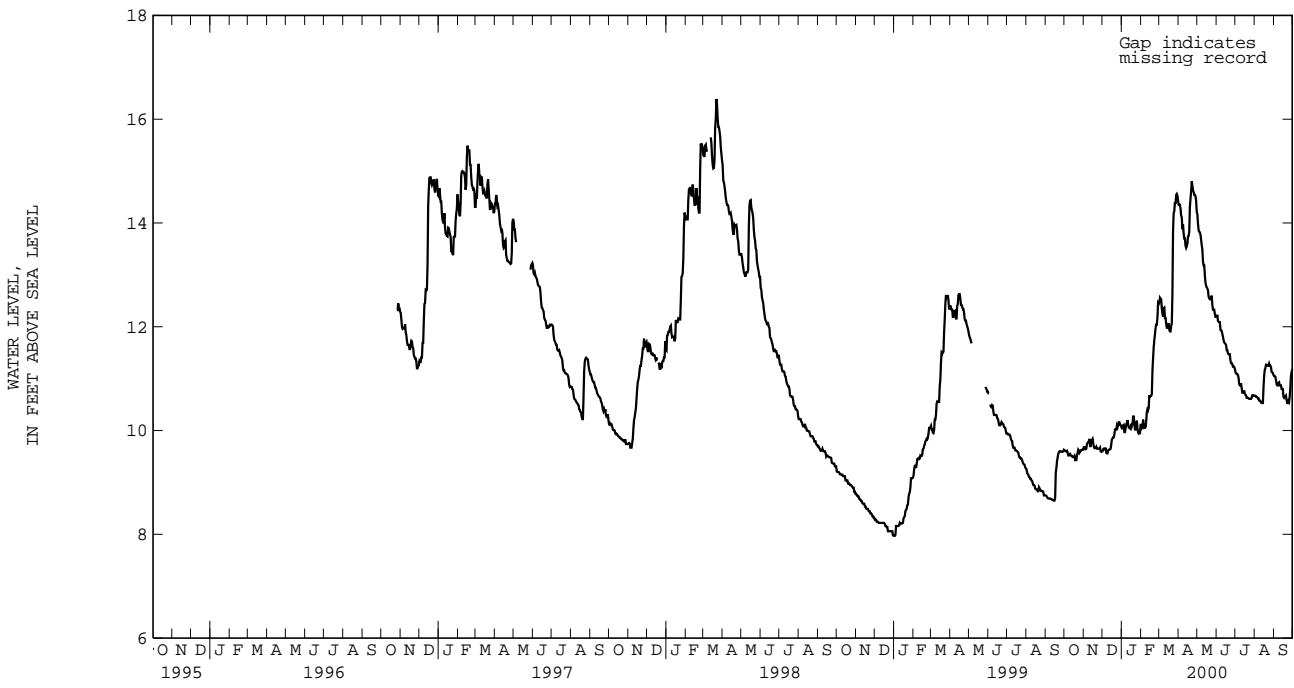
KENT COUNTY--Continued

DM106D--Continued

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.44	14.35	14.27	14.17	12.23	12.20	11.19	11.13	10.69	10.67	11.07	11.05
2	14.35	14.35	14.28	13.98	12.23	12.23	11.13	11.10	10.68	10.67	11.05	11.05
3	14.35	14.35	13.98	13.86	12.23	12.11	11.10	11.09	10.67	10.65	11.05	11.04
4	14.42	14.28	13.86	13.83	12.11	12.10	11.09	11.09	10.65	10.65	11.05	10.97
5	14.28	14.14	13.83	13.82	12.10	12.09	11.09	11.07	10.65	10.64	10.97	10.89
6	14.24	14.11	13.82	13.77	12.11	12.09	11.07	11.02	10.64	10.62	10.89	10.87
7	14.11	13.88	13.77	13.68	12.09	11.94	11.02	10.90	10.62	10.62	10.92	10.87
8	14.10	13.97	13.68	13.57	11.94	11.93	10.90	10.87	10.62	10.58	10.95	10.92
9	14.00	13.80	13.57	13.49	11.93	11.92	10.93	10.87	10.58	10.58	10.95	10.93
10	13.80	13.70	13.49	13.26	11.92	11.86	10.95	10.91	10.58	10.57	10.93	10.87
11	13.77	13.70	13.26	13.18	11.86	11.81	10.91	10.82	10.57	10.54	10.87	10.87
12	13.79	13.56	13.18	13.18	11.81	11.74	10.82	10.73	10.54	10.54	10.88	10.87
13	13.56	13.52	13.18	12.99	11.74	11.70	10.73	10.73	10.54	10.53	10.88	10.80
14	13.60	13.55	12.99	12.85	11.70	11.68	10.77	10.73	10.83	10.53	10.85	10.80
15	13.74	13.60	12.85	12.79	11.69	11.67	10.81	10.77	11.05	10.83	10.89	10.80
16	13.77	13.74	12.79	12.76	11.67	11.65	10.79	10.71	11.17	11.05	10.80	10.65
17	13.84	13.75	12.76	12.74	11.65	11.55	10.71	10.69	11.20	11.17	10.66	10.63
18	14.31	13.84	12.74	12.70	11.55	11.55	10.69	10.68	11.31	11.20	10.66	10.65
19	14.47	14.31	12.71	12.58	11.55	11.49	10.68	10.63	11.31	11.27	10.78	10.65
20	14.61	14.47	12.58	12.55	11.49	11.47	10.66	10.63	11.27	11.27	10.69	10.67
21	14.80	14.61	12.55	12.53	11.51	11.47	10.65	10.63	11.27	11.25	10.68	10.59
22	14.81	14.80	12.55	12.53	11.51	11.47	10.63	10.62	11.25	11.25	10.59	10.53
23	14.80	14.72	12.60	12.55	11.47	11.35	10.62	10.61	11.31	11.25	10.61	10.53
24	14.72	14.63	12.65	12.60	11.35	11.30	10.61	10.61	11.31	11.29	10.63	10.57
25	14.63	14.60	12.60	12.42	11.30	11.30	10.61	10.61	11.29	11.25	10.65	10.55
26	14.60	14.54	12.42	12.33	11.30	11.28	10.63	10.61	11.25	11.25	10.83	10.65
27	14.54	14.54	12.33	12.33	11.28	11.23	10.68	10.63	11.25	11.22	11.05	10.83
28	14.55	14.52	12.34	12.33	11.23	11.23	10.69	10.68	11.22	11.13	11.13	11.05
29	14.52	14.43	12.33	12.25	11.24	11.23	10.69	10.68	11.13	11.12	11.18	11.13
30	14.43	14.21	12.25	12.19	11.24	11.19	10.68	10.68	11.12	11.11	11.29	11.18
31	---	---	12.20	12.19	---	---	10.69	10.67	11.11	11.07	---	---
MONTH	14.81	13.52	14.28	12.19	12.23	11.19	11.19	10.61	11.31	10.53	11.29	10.53
YEAR	14.81	9.43										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN DELAWARE

KENT COUNTY--Continued

WELL NUMBER.--DM110D. SITE ID.--390744075270402. PERMIT NUMBER.--95553.

LOCATION.--Lat 39°07'44", long 75°27'04", Hydrologic Unit 02040207, at Dover Air Force Base, Dover.

Owner: U.S. Air Force.

AQUIFER.--Columbia aquifer of Pleistocene age. Aquifer code: 112CLMB.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 74 ft; casing diameter 2 in., to 64 ft; screen diameter 2 in. from 64 to 74 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from Oct. 25, 1995, to March 15, 2000.

DATUM.--Altitude of land surface is 25.37 ft above sea level.

Measuring Point: Top of recorder platform 4.94 ft above land surface.

REMARKS.--Dover Air Force Base Project observation well. Periods of equal maximum and minimum daily values may be questionable due to the float hanging-up in small diameter wells or other well construction factors.

PERIOD OF RECORD.--October 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.12 ft above sea level, March 9, 1998; lowest measured, 7.84 ft above sea level, Jan. 2, 1999.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.55	9.53	9.58	9.57	9.60	9.54	10.05	10.03	10.09	10.08	12.58	12.40
2	9.53	9.52	9.80	9.57	9.60	9.59	10.06	10.03	10.08	10.04	12.58	12.45
3	9.52	9.51	9.77	9.61	9.60	9.60	10.06	10.06	10.16	10.04	12.45	12.42
4	9.52	9.51	9.61	9.60	9.60	9.59	10.17	10.06	10.16	10.16	12.43	12.39
5	9.52	9.51	9.67	9.61	9.60	9.59	10.16	9.97	10.16	10.16	12.40	12.25
6	9.51	9.49	9.73	9.67	9.63	9.60	10.03	9.97	10.16	10.16	12.25	12.13
7	9.49	9.44	9.73	9.71	9.62	9.55	10.13	10.03	10.16	10.16	12.20	12.10
8	9.45	9.44	9.72	9.71	9.55	9.54	10.12	10.10	10.16	10.16	12.22	12.20
9	9.46	9.45	9.77	9.72	9.57	9.54	10.18	10.12	10.34	10.16	12.23	12.21
10	9.48	9.46	9.79	9.77	9.70	9.57	10.37	10.18	10.43	10.34	12.21	11.96
11	9.48	9.41	9.78	9.64	9.63	9.59	10.24	10.14	10.50	10.43	12.10	11.96
12	9.41	9.40	9.70	9.64	9.59	9.58	10.14	10.09	10.45	10.41	12.16	11.91
13	9.52	9.40	9.72	9.70	9.59	9.58	10.29	10.06	10.66	10.45	11.91	11.83
14	9.52	9.37	9.82	9.72	9.81	9.59	10.06	10.00	10.79	10.66	11.91	11.83
15	9.37	9.36	9.77	9.77	9.82	9.77	10.09	10.00	10.75	10.66	11.93	11.91
16	9.37	9.36	9.77	9.69	9.85	9.82	10.28	10.09	10.88	10.67	---	---
17	9.48	9.37	9.69	9.60	9.86	9.85	10.17	10.08	10.81	10.71	---	---
18	9.48	9.32	9.60	9.59	9.88	9.86	10.21	10.09	11.17	10.73	---	---
19	9.32	9.31	9.59	9.59	9.92	9.88	10.21	10.20	11.46	11.17	---	---
20	9.42	9.31	9.62	9.59	10.05	9.92	10.31	10.20	11.67	11.46	---	---
21	9.47	9.42	9.62	9.60	10.05	10.01	10.21	10.07	11.78	11.67	---	---
22	9.59	9.47	9.60	9.55	10.01	10.01	10.07	10.03	11.87	11.78	---	---
23	9.58	9.55	9.55	9.55	10.08	10.01	10.04	10.03	11.97	11.87	---	---
24	9.55	9.51	9.55	9.55	10.08	10.06	10.11	10.04	12.04	11.97	---	---
25	9.51	9.47	9.55	9.55	10.08	10.06	10.34	10.11	---	---	---	---
26	9.59	9.50	9.59	9.55	10.24	10.08	10.18	10.02	12.16	12.02	---	---
27	9.58	9.53	9.59	9.58	10.19	10.16	10.02	9.92	12.42	12.16	---	---
28	9.53	9.53	9.58	9.54	10.17	10.15	9.92	9.90	12.42	12.39	---	---
29	9.54	9.53	9.55	9.53	10.17	10.09	9.90	9.90	12.40	12.38	---	---
30	9.54	9.54	9.55	9.54	10.10	10.09	10.15	9.90	---	---	---	---
31	9.58	9.54	---	---	10.09	10.05	10.15	10.08	---	---	---	---
MONTH	9.59	9.31	9.82	9.53	10.24	9.54	10.37	9.90	---	---	---	---

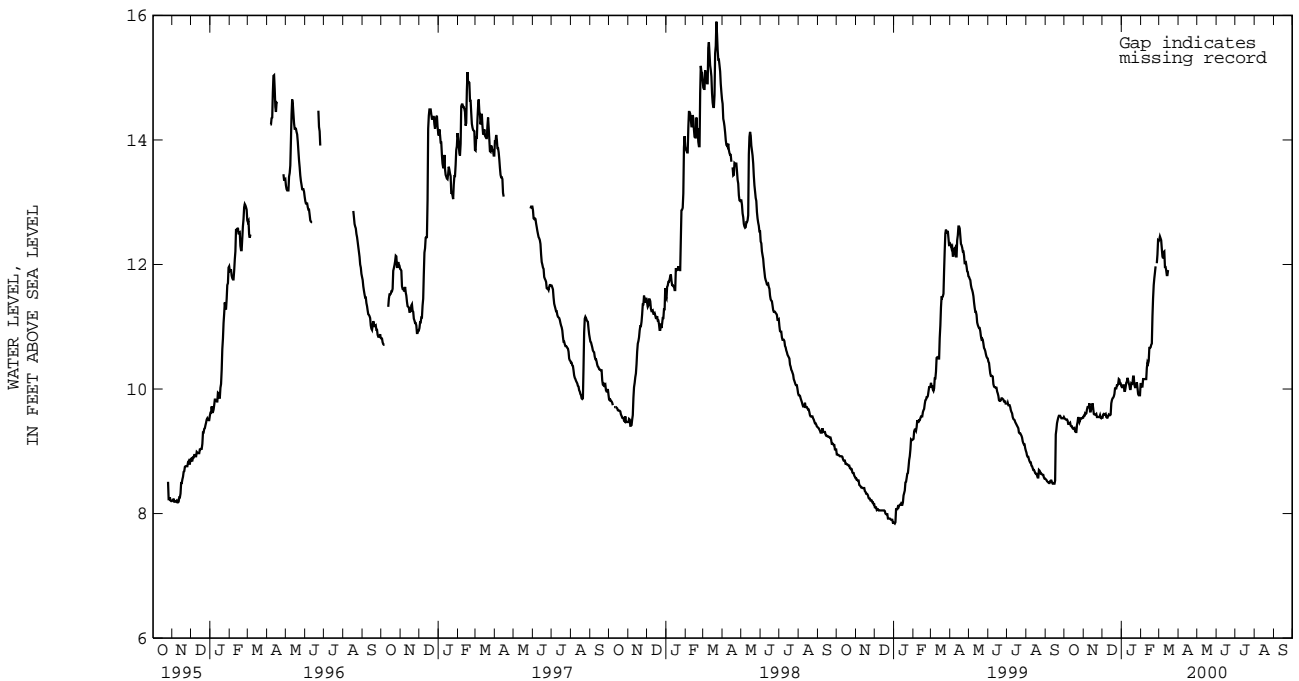
KENT COUNTY--Continued

DM110D--Continued

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
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7	---	---	---	---	---	---	---	---	---	---	---	---
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9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
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31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR	10.37	9.31										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN DELAWARE

KENT COUNTY--Continued

WELL NUMBER.--DM202D. SITE ID.--390833075273601. PERMIT NUMBER.--95544.

LOCATION.--Lat 39°08'33", long 75°27'36", Hydrologic Unit 02040207, at Dover Air Force Base, Dover.

Owner: U.S. Air Force.

AQUIFER.--Columbia aquifer of Pleistocene age. Aquifer code: 112CLMB.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 28 ft; casing diameter 2 in., to 18 ft; screen diameter 2 in. from 18 to 28 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from Oct. 25, 1995, to March 15, 2000.

DATUM.--Altitude of land surface is 13.74 ft above sea level.

Measuring Point: Top of recorder platform 4.19 ft above land surface.

REMARKS.--Dover Air Force Base Project observation well. Periods of equal maximum and minimum daily values may be questionable due to the float hanging-up in small diameter wells or other well construction factors.

PERIOD OF RECORD.--October 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.00 ft above sea level, March 9, 1998; lowest measured, 4.71 ft above sea level, Jan. 1-3, 1999.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.79	5.75	5.72	5.71	5.85	5.85	6.24	6.22	6.19	6.19	7.53	7.53
2	5.75	5.74	5.80	5.71	5.85	5.85	6.22	6.21	6.22	6.19	7.53	7.48
3	5.74	5.72	5.81	5.80	5.85	5.85	6.21	6.20	6.22	6.21	7.48	7.45
4	5.72	5.72	5.81	5.81	5.85	5.85	6.20	6.20	6.22	6.22	7.45	7.41
5	5.72	5.72	5.81	5.81	5.85	5.85	6.24	6.20	6.22	6.22	7.41	7.34
6	5.72	5.68	5.82	5.81	5.85	5.85	6.24	6.24	6.22	6.22	7.34	7.29
7	5.68	5.66	5.82	5.82	5.86	5.85	6.30	6.24	6.26	6.22	7.29	7.26
8	5.66	5.64	5.82	5.82	5.86	5.86	6.29	6.29	6.32	6.26	7.26	7.24
9	5.64	5.63	5.83	5.82	5.86	5.86	6.30	6.29	6.44	6.32	7.24	7.22
10	5.63	5.63	5.83	5.83	5.88	5.86	6.37	6.30	6.60	6.44	7.22	7.14
11	5.63	5.62	5.83	5.82	5.89	5.88	6.36	6.32	6.70	6.60	7.14	7.13
12	5.62	5.61	5.82	5.82	5.89	5.89	6.32	6.32	6.74	6.70	7.16	7.11
13	5.61	5.61	5.82	5.82	5.89	5.89	6.32	6.31	6.78	6.73	7.11	7.08
14	5.61	5.58	5.82	5.82	6.12	5.89	6.31	6.25	6.85	6.78	7.08	7.06
15	5.58	5.57	5.82	5.82	6.26	6.12	6.25	6.25	6.85	6.85	7.06	7.03
16	5.57	5.57	5.82	5.80	6.33	6.26	6.26	6.25	6.89	6.85	---	---
17	5.57	5.57	5.80	5.77	6.34	6.33	6.25	6.22	6.89	6.87	---	---
18	5.58	5.57	5.77	5.75	6.35	6.34	6.22	6.21	7.07	6.87	---	---
19	5.57	5.55	5.75	5.74	6.36	6.35	6.22	6.21	7.47	7.07	---	---
20	5.63	5.55	5.74	5.74	6.40	6.36	6.25	6.22	7.54	7.47	---	---
21	5.68	5.63	5.74	5.72	6.40	6.40	6.24	6.20	7.56	7.54	---	---
22	5.72	5.68	5.72	5.71	6.40	6.40	6.20	6.17	7.56	7.54	---	---
23	5.74	5.72	5.71	5.70	6.40	6.39	6.17	6.15	7.54	7.52	---	---
24	5.74	5.74	5.70	5.70	6.40	6.38	6.15	6.14	7.52	7.49	---	---
25	5.75	5.74	5.70	5.69	6.38	6.36	6.25	6.14	7.49	7.44	---	---
26	5.75	5.75	5.70	5.69	6.38	6.36	6.21	6.15	7.47	7.44	---	---
27	5.75	5.74	5.80	5.70	6.37	6.36	6.15	6.11	7.52	7.47	---	---
28	5.74	5.74	5.83	5.80	6.36	6.34	6.11	6.10	7.53	7.52	---	---
29	5.74	5.73	5.85	5.83	6.34	6.31	6.10	6.08	7.53	7.53	---	---
30	5.73	5.72	5.85	5.85	6.31	6.27	6.09	6.08	---	---	---	---
31	5.72	5.72	---	---	6.27	6.24	6.19	6.09	---	---	---	---
MONTH	5.79	5.55	5.85	5.69	6.40	5.85	6.37	6.08	7.56	6.19	7.53	7.03

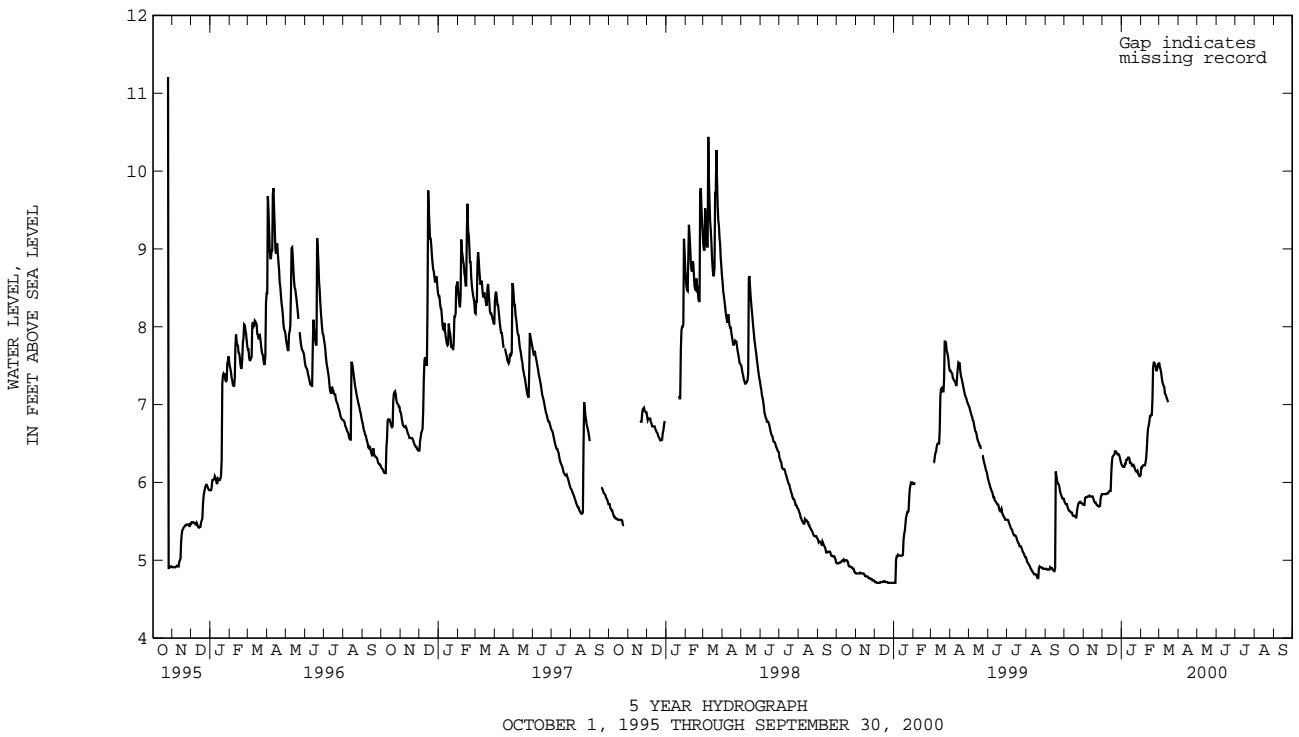
KENT COUNTY--Continued

DM202D--Continued

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
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31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR	7.56	5.55										

Daily Low Water Levels



GROUND-WATER LEVELS IN DELAWARE

KENT COUNTY--Continued

WELL NUMBER.--DM204D. SITE ID.--390827075290401. PERMIT NUMBER.--95546.

LOCATION.--Lat 39°08'27", long 75°29'04", Hydrologic Unit 02040207, at Dover Air Force Base, Dover.

Owner: U.S. Air Force.

AQUIFER.--Columbia aquifer of Pleistocene age. Aquifer code: 112CLMB.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 34 ft; casing diameter 2 in., to 24 ft; screen diameter 2 in. from 24 to 34 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from Oct. 25, 1995, to March 16, 2000.

DATUM.--Altitude of land surface is 22.28 ft above sea level.

Measuring Point: Top of recorder platform 3.52 ft above land surface.

REMARKS.--Dover Air Force Base Project observation well. Periods of equal maximum and minimum daily values may be questionable due to the float hanging-up in small diameter wells or other well construction factors.

PERIOD OF RECORD.--October 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.82 ft above sea level, March 9, 1998; lowest measured, 11.12 ft above sea level, Dec. 30, 31, 1998.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.46	13.44	13.61	13.57	13.69	13.61	14.15	14.14	14.24	14.12	16.35	16.15
2	13.46	13.44	13.94	13.59	13.68	13.64	14.26	14.15	14.20	14.11	16.34	16.11
3	13.46	13.44	13.87	13.62	13.67	13.65	14.25	14.20	14.40	14.13	16.15	16.08
4	13.52	13.46	13.66	13.61	13.67	13.63	14.41	14.21	14.38	14.28	16.13	16.06
5	13.51	13.49	13.80	13.66	13.68	13.63	14.29	14.05	14.28	14.18	16.09	15.88
6	13.52	13.47	13.89	13.80	13.70	13.68	14.31	14.05	14.28	14.12	15.88	15.76
7	13.47	13.40	13.87	13.77	13.68	13.58	14.47	14.31	14.40	14.28	15.93	15.73
8	13.46	13.41	13.81	13.77	13.58	13.57	14.39	14.31	14.36	14.18	15.93	15.91
9	13.49	13.46	13.87	13.80	13.68	13.58	14.47	14.39	14.61	14.36	15.99	15.91
10	13.52	13.48	13.90	13.85	13.89	13.68	14.81	14.47	14.69	14.60	15.91	15.63
11	13.52	13.42	13.88	13.61	13.71	13.67	14.53	14.29	14.80	14.55	15.88	15.63
12	13.42	13.39	13.77	13.61	13.72	13.70	14.31	14.17	14.63	14.51	15.95	15.59
13	13.60	13.42	13.79	13.77	13.75	13.72	14.63	14.15	14.93	14.63	15.59	15.53
14	13.60	13.32	13.97	13.77	14.04	13.75	14.15	14.06	15.16	14.93	15.72	15.59
15	13.33	13.32	13.80	13.77	14.17	13.98	14.29	14.11	14.94	14.73	15.74	15.69
16	13.36	13.33	13.79	13.64	14.21	14.16	14.55	14.26	15.14	14.83	---	---
17	13.49	13.36	13.64	13.55	14.22	14.16	14.26	14.13	14.91	14.73	---	---
18	13.49	13.26	13.56	13.55	14.23	14.21	14.35	14.19	15.36	14.79	---	---
19	13.29	13.26	13.57	13.55	14.27	14.22	14.35	14.27	15.54	15.36	---	---
20	13.44	13.29	13.61	13.57	14.51	14.27	14.48	14.25	15.63	15.51	---	---
21	13.57	13.44	13.58	13.54	14.47	14.32	14.25	14.06	15.63	15.59	---	---
22	13.76	13.57	13.54	13.51	14.36	14.33	14.06	13.97	15.69	15.63	---	---
23	13.67	13.60	13.51	13.50	14.50	14.35	14.08	14.00	15.79	15.69	---	---
24	13.60	13.55	13.50	13.50	14.45	14.34	14.20	14.05	15.86	15.79	---	---
25	13.56	13.50	13.50	13.47	14.41	14.29	14.49	14.14	15.86	15.76	---	---
26	13.68	13.56	13.56	13.48	14.69	14.41	14.14	13.98	16.00	15.76	---	---
27	13.65	13.54	13.56	13.55	14.49	14.39	13.98	13.83	16.29	16.00	---	---
28	13.56	13.53	13.56	13.55	14.48	14.39	13.83	13.81	16.29	16.14	---	---
29	13.57	13.55	13.64	13.56	14.48	14.26	13.83	13.80	16.16	16.10	---	---
30	13.56	13.53	13.62	13.59	14.34	14.26	14.21	13.82	---	---	---	---
31	13.61	13.55	---	---	14.26	14.15	14.21	14.12	---	---	---	---
MONTH	13.76	13.26	13.97	13.47	14.69	13.57	14.81	13.80	16.29	14.11	---	---

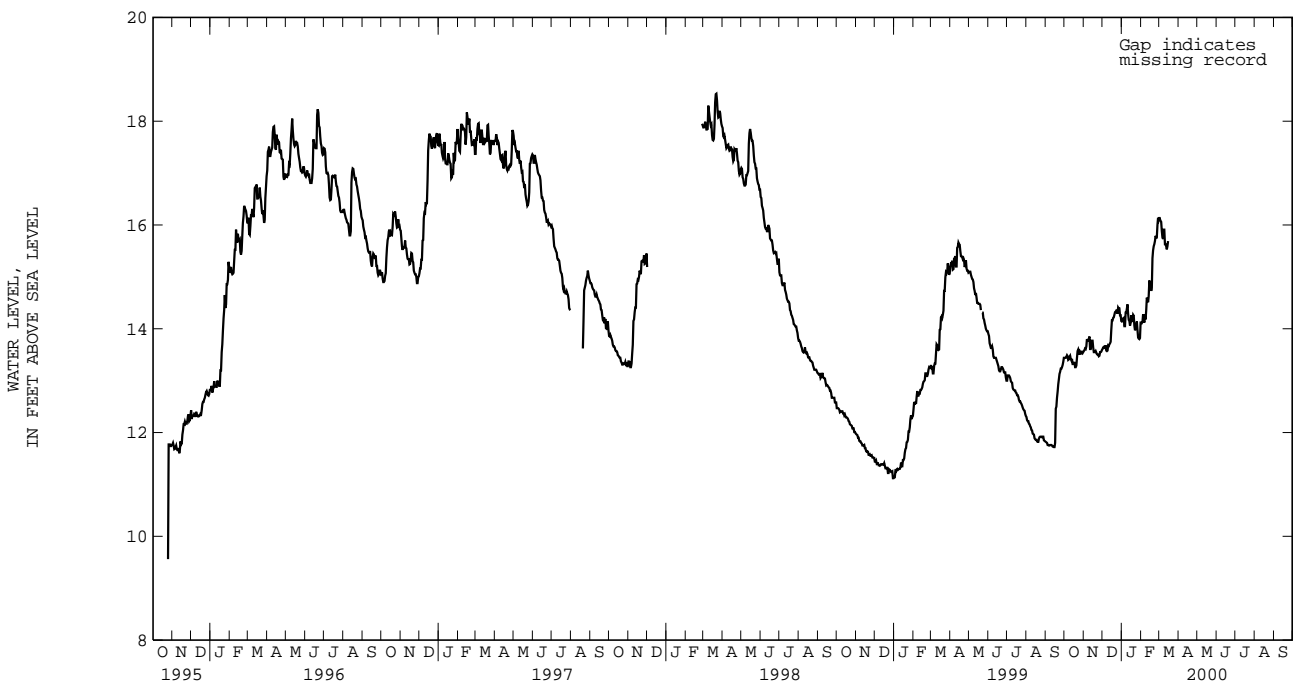
KENT COUNTY--Continued

DM204D--Continued

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR	16.29	13.26										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN DELAWARE

KENT COUNTY--Continued

WELL NUMBER.--DM358D. SITE ID.--390707075293401. PERMIT NUMBER.--96066.

LOCATION.--Lat 39°07'07", long 75°29'34", Hydrologic Unit 02040207, at Dover Air Force Base, Dover.

Owner: U.S. Air Force.

AQUIFER.--Columbia aquifer of Pleistocene age. Aquifer code: 112CLMB.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 22 ft; casing diameter 2 in., to 7 ft; screen diameter 2 in. from 7 to 22 ft.

INSTRUMENTATION.--Periodic measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with pressure transducer water-level recorder--60-minute recorder interval from Oct. 30, 1995, to December 3, 1998.

DATUM.--Altitude of land surface is 12.32 ft above sea level.

Measuring Point: Top of casing 2.85 ft above land surface.

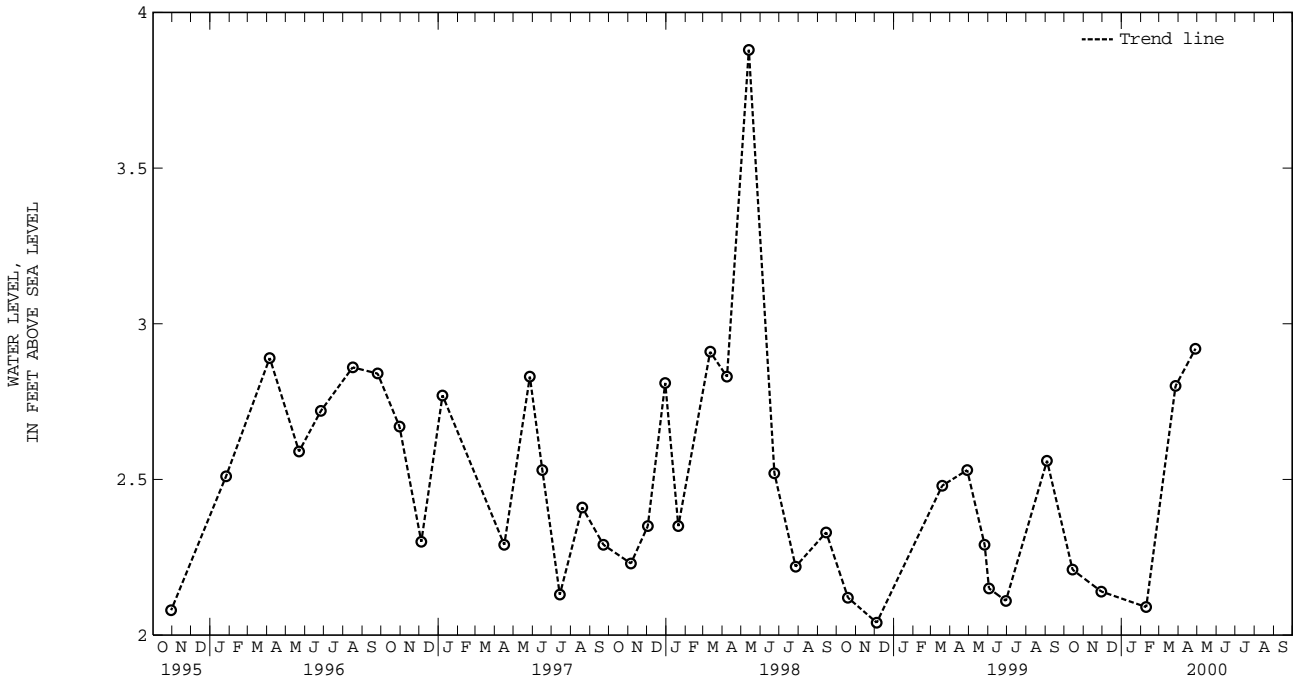
REMARKS.--Dover Air Force Base Project observation well.

PERIOD OF RECORD.--October 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.34 ft above sea level, February 5, 1998; lowest measured, 1.83 ft above sea level, Nov. 28, 29, 1998.

WATER LEVELS, IN FEET ABOVE SEA LEVEL,

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14, 1999	2.21	FEB 09, 2000	2.09	APR 28, 2000	2.92
NOV 29	2.14	MAR 27	2.80		
WATER YEAR 2000 HIGHEST		2.92	APR 28, 2000	LOWEST	
				2.09	FEB 09, 2000



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN DELAWARE

75

KENT COUNTY--Continued

WELL NUMBER.--DM378F. SITE ID.--390747075292601. PERMIT NUMBER.--96947.

LOCATION.--Lat 39°07'47", long 75°29'26", Hydrologic Unit 02040207, at Dover Air Force Base, Dover.

Owner: U.S. Air Force.

AQUIFER.--Frederica aquifer of Miocene age. Aquifer code: 122FRDC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 80 ft; casing diameter 8 in. to 50 ft, and casing diameter 3 in., to 70 ft; screen diameter 3 in. from 70 to 80 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with pressure transducer water-level recorder--60-minute recorder interval from Oct. 30, 1995, to current year.

DATUM.--Altitude of land surface is 32.40 ft above sea level.

Measuring Point: Top of PVC casing 1.49 ft above land surface.

REMARKS.--Dover Air Force Base Project observation well.

PERIOD OF RECORD.--October 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.59 ft above sea level, March 22, 1998; lowest measured, 3.07 ft above sea level, Aug. 16, 1999.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	4.51	4.42	4.64	4.56	4.69	4.58	4.81	4.70	4.75	4.63	5.21	5.04
2	4.51	4.41	4.82	4.55	4.73	4.61	4.82	4.70	4.69	4.56	5.26	5.11
3	4.51	4.41	4.82	4.66	4.74	4.62	4.82	4.69	4.70	4.55	5.23	5.09
4	4.55	4.42	4.69	4.59	4.74	4.63	4.84	4.68	4.75	4.60	5.25	5.09
5	4.55	4.43	4.66	4.54	4.73	4.58	4.85	4.67	4.76	4.61	5.27	5.13
6	4.55	4.45	4.67	4.55	4.73	4.63	4.80	4.67	4.68	4.58	5.24	5.15
7	4.54	4.43	4.67	4.54	4.72	4.61	4.81	4.70	4.71	4.58	5.25	5.13
8	4.51	4.41	4.68	4.57	4.67	4.56	4.79	4.67	4.66	4.54	5.26	5.15
9	4.53	4.42	4.73	4.58	4.69	4.57	4.80	4.69	4.70	4.56	5.32	5.15
10	4.55	4.42	4.71	4.60	4.73	4.59	4.87	4.71	4.71	4.58	5.30	5.17
11	4.53	4.44	4.70	4.59	4.69	4.57	4.87	4.72	4.73	4.63	5.33	5.15
12	4.51	4.42	4.75	4.62	4.64	4.50	4.81	4.67	4.71	4.62	5.37	5.24
13	4.54	4.42	4.75	4.65	4.67	4.53	4.82	4.69	4.75	4.64	5.30	5.17
14	4.55	4.39	4.79	4.66	4.84	4.59	4.80	4.63	4.84	4.69	5.29	5.16
15	4.46	4.35	4.75	4.66	4.85	4.74	4.73	4.61	4.77	4.67	5.28	5.13
16	4.47	4.36	4.73	4.63	4.88	4.75	4.79	4.66	4.81	4.68	5.28	5.12
17	4.56	4.39	4.65	4.54	4.81	4.68	4.72	4.61	4.76	4.65	5.31	5.18
18	4.59	4.44	4.64	4.53	4.78	4.67	4.74	4.60	4.89	4.65	5.28	5.16
19	4.54	4.44	4.65	4.54	4.83	4.68	4.82	4.66	4.95	4.82	5.34	5.18
20	4.63	4.48	4.67	4.56	4.90	4.74	4.89	4.75	4.98	4.83	5.39	5.26
21	4.65	4.51	4.68	4.55	4.90	4.82	4.90	4.76	4.97	4.84	5.67	5.33
22	4.68	4.54	4.66	4.53	4.90	4.76	4.81	4.68	4.97	4.84	5.84	5.64
23	4.78	4.64	4.71	4.54	4.90	4.76	4.79	4.65	4.98	4.87	5.89	5.76
24	4.71	4.61	4.67	4.56	4.88	4.75	4.80	4.68	5.01	4.91	5.85	5.73
25	4.69	4.55	4.70	4.58	4.87	4.77	4.99	4.73	5.05	4.92	5.86	5.71
26	4.69	4.59	4.72	4.58	4.92	4.78	4.96	4.83	5.11	4.98	5.87	5.77
27	4.66	4.54	4.77	4.67	4.90	4.77	4.88	4.72	5.16	5.01	5.93	5.76
28	4.68	4.57	4.72	4.64	4.88	4.75	4.78	4.61	5.16	5.05	6.06	5.89
29	4.68	4.57	4.70	4.58	4.94	4.76	4.71	4.58	5.14	5.03	6.03	5.92
30	4.64	4.54	4.66	4.55	4.86	4.74	4.79	4.58	---	---	6.04	5.91
31	4.66	4.56	---	---	4.82	4.69	4.80	4.64	---	---	6.05	5.91
MONTH	4.78	4.35	4.82	4.53	4.94	4.50	4.99	4.58	5.16	4.54	6.06	5.04

GROUND-WATER LEVELS IN DELAWARE

KENT COUNTY--Continued

DM378F--Continued

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.07	5.95	6.68	6.49	6.26	6.12	5.47	5.34	5.26	5.14	5.52	5.40
2	6.09	5.96	6.67	6.52	6.22	6.09	5.45	5.33	5.25	5.13	5.50	5.40
3	6.13	6.01	6.59	6.45	6.19	6.08	5.44	5.33	5.25	5.12	5.56	5.39
4	6.20	6.04	6.57	6.45	6.18	6.07	5.43	5.34	5.22	5.09	5.59	5.46
5	6.18	6.06	6.55	6.42	6.18	6.05	5.43	5.30	5.24	5.11	5.57	5.45
6	6.22	6.06	6.53	6.41	6.24	6.10	5.42	5.30	5.21	5.12	5.57	5.46
7	6.21	6.10	6.54	6.42	6.20	6.09	5.38	5.25	5.20	5.10	5.56	5.45
8	6.26	6.14	6.54	6.41	6.17	6.05	5.32	5.20	5.17	5.07	5.54	5.42
9	6.28	6.11	6.53	6.42	6.12	6.00	5.30	5.18	5.16	5.04	5.50	5.41
10	6.21	6.07	6.51	6.40	6.07	5.93	5.27	5.14	5.14	5.04	5.49	5.39
11	6.22	6.07	6.54	6.38	6.02	5.90	5.21	5.10	5.17	5.02	5.50	5.39
12	6.23	6.12	6.51	6.39	6.01	5.88	5.21	5.09	5.19	5.07	5.52	5.39
13	6.24	6.10	6.51	6.35	6.00	5.90	5.17	5.07	5.26	5.11	5.51	5.39
14	6.26	6.12	6.50	6.35	6.02	5.90	5.14	5.05	5.49	5.25	5.52	5.40
15	6.31	6.15	6.44	6.32	6.07	5.90	5.20	5.08	5.49	5.38	5.62	5.45
16	6.32	6.20	6.38	6.28	6.01	5.88	5.17	5.06	5.52	5.40	5.55	5.43
17	6.40	6.23	6.35	6.22	5.95	5.79	5.16	5.05	5.49	5.38	5.51	5.38
18	6.57	6.37	6.32	6.18	5.89	5.78	5.13	5.01	5.55	5.42	5.48	5.34
19	6.63	6.50	6.28	6.15	5.89	5.76	5.08	4.97	5.55	5.44	5.48	5.34
20	6.66	6.52	6.28	6.16	5.85	5.53	5.14	4.97	5.56	5.43	5.45	5.33
21	6.69	6.55	6.32	6.21	5.61	5.49	5.12	4.99	5.53	5.45	5.43	5.31
22	6.71	6.59	6.36	6.20	5.63	5.48	5.09	4.95	5.53	5.44	5.38	5.26
23	6.71	6.56	6.35	6.25	5.58	5.47	5.05	4.94	5.54	5.43	5.41	5.28
24	6.73	6.53	6.37	6.24	5.54	5.44	5.05	4.93	5.55	5.44	5.41	5.30
25	6.67	6.52	6.37	6.21	5.52	5.41	5.05	4.94	5.56	5.43	5.49	5.31
26	6.70	6.55	6.27	6.15	5.49	5.36	5.15	4.97	5.54	5.44	5.69	5.47
27	6.73	6.62	6.22	6.10	5.45	5.33	5.15	5.06	5.53	5.44	5.75	5.63
28	6.72	6.58	6.24	6.11	5.44	5.31	5.17	5.04	5.54	5.42	5.75	5.64
29	6.68	6.57	6.27	6.16	5.50	5.37	5.19	5.06	5.58	5.42	5.73	5.60
30	6.66	6.53	6.28	6.18	5.51	5.39	5.19	5.08	5.56	5.46	5.74	5.61
31	---	---	6.27	6.17	---	---	5.24	5.11	5.53	5.43	---	---
MONTH	6.73	5.95	6.68	6.10	6.26	5.31	5.47	4.93	5.58	5.02	5.75	5.26
YEAR	6.73	4.35										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN DELAWARE

77

KENT COUNTY--Continued

WELL NUMBER.--DM412D. SITE ID.--390629075272701. PERMIT NUMBER.--95941.

LOCATION.--Lat 39°06'29", long 75°27'27", Hydrologic Unit 02040207, at Dover Air Force Base, Dover.

Owner: U.S. Air Force.

AQUIFER.--Columbia aquifer of Pleistocene age. Aquifer code: 112CLMB.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 70 ft; casing diameter 2 in., to 60 ft; screen diameter 2 in. from 60 to 70 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from Oct. 25, 1995, to current year.

DATUM.--Altitude of land surface is 21.19 ft above sea level.

Measuring Point: Top of casing 2.86 ft above land surface.

REMARKS.--Dover Air Force Base Project observation well. Periods of equal maximum and minimum daily values may be questionable due to the float hanging-up in small diameter wells or other construction factors.

PERIOD OF RECORD.--October 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.77 ft above sea level, Feb. 21, 1997;
lowest measured, 1.30 ft above sea level, Dec. 6-9, 1998.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	3.56	3.52	2.75	2.74	2.30	2.30	2.97	2.96	3.97	3.91	5.58	5.57
2	3.52	3.49	2.76	2.72	2.30	2.29	3.01	2.97	4.01	3.97	5.57	5.49
3	3.49	3.49	2.74	2.72	2.29	2.26	3.05	3.01	4.08	4.01	5.49	5.48
4	3.49	3.49	2.72	2.70	2.26	2.24	3.10	3.05	4.12	4.08	5.48	5.48
5	3.49	3.47	2.70	2.66	2.24	2.22	3.10	3.10	4.16	4.12	5.48	5.47
6	3.47	3.44	2.66	2.63	2.22	2.20	3.11	3.10	4.20	4.16	5.47	5.47
7	3.44	3.39	2.63	2.61	2.20	2.20	3.11	3.11	4.26	4.20	5.48	5.47
8	3.39	3.37	2.61	2.60	2.20	2.20	3.11	3.10	4.32	4.26	5.48	5.46
9	3.37	3.33	2.60	2.58	2.21	2.20	3.10	3.10	4.39	4.32	5.46	5.40
10	3.33	3.31	2.58	2.56	2.25	2.21	3.17	3.10	4.47	4.39	5.40	5.28
11	3.31	3.27	2.56	2.52	2.29	2.25	3.13	3.10	4.49	4.46	5.28	5.26
12	3.27	3.24	2.52	2.49	2.31	2.29	3.10	3.07	4.51	4.48	5.26	5.15
13	3.24	3.23	2.49	2.44	2.37	2.31	3.11	3.07	4.61	4.51	5.15	5.09
14	3.23	3.17	2.44	2.42	2.46	2.37	3.08	3.07	4.66	4.61	5.09	5.04
15	3.17	3.11	2.42	2.42	2.51	2.45	3.10	3.07	4.69	4.65	5.04	4.98
16	3.11	3.05	2.42	2.39	2.56	2.51	3.15	3.10	4.74	4.69	4.98	4.94
17	3.05	3.03	2.39	2.36	2.63	2.56	3.17	3.15	4.74	4.74	4.95	4.82
18	3.03	3.00	2.36	2.31	2.68	2.63	3.21	3.17	4.91	4.74	4.82	4.77
19	3.00	2.98	2.31	2.26	2.73	2.68	3.28	3.21	4.99	4.91	4.77	4.75
20	2.98	2.97	2.26	2.24	2.76	2.73	3.33	3.28	5.06	4.99	4.76	4.75
21	2.98	2.97	2.24	2.23	2.80	2.76	3.37	3.33	5.15	5.06	4.97	4.75
22	3.00	2.98	2.23	2.23	2.80	2.80	3.40	3.37	5.22	5.15	5.24	4.97
23	2.99	2.97	2.23	2.23	2.81	2.80	3.47	3.40	5.31	5.22	5.65	5.24
24	2.97	2.96	2.23	2.23	2.81	2.81	3.56	3.47	5.40	5.31	5.97	5.65
25	2.96	2.96	2.23	2.22	2.85	2.81	3.64	3.56	5.44	5.40	6.27	5.97
26	2.96	2.96	2.23	2.22	2.89	2.85	3.67	3.64	5.49	5.44	6.46	6.27
27	2.96	2.93	2.23	2.23	2.93	2.89	3.70	3.67	5.58	5.49	6.67	6.46
28	2.93	2.90	2.23	2.23	2.95	2.93	3.75	3.70	5.58	5.58	6.74	6.67
29	2.90	2.85	2.28	2.23	2.96	2.95	3.79	3.75	5.58	5.58	6.79	6.74
30	2.85	2.79	2.30	2.28	2.96	2.96	3.88	3.79	---	---	6.85	6.79
31	2.79	2.75	---	---	2.96	2.96	3.91	3.87	---	---	6.85	6.84
MONTH	3.56	2.75	2.76	2.22	2.96	2.20	3.91	2.96	5.58	3.91	6.85	4.75

GROUND-WATER LEVELS IN DELAWARE

KENT COUNTY--Continued

DM412D--Continued

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.86	6.84	6.77	6.70	5.49	5.46	4.46	4.42	4.69	4.68	4.48	4.43
2	6.92	6.86	6.76	6.65	5.46	5.41	4.42	4.40	4.69	4.68	4.43	4.38
3	7.00	6.92	6.65	6.58	5.41	5.34	4.40	4.40	4.68	4.62	4.41	4.38
4	7.03	6.99	6.58	6.56	5.35	5.31	4.43	4.40	4.62	4.58	4.49	4.41
5	7.00	6.99	6.56	6.52	5.31	5.30	4.46	4.43	4.58	4.53	4.53	4.49
6	7.08	6.99	6.52	6.49	5.30	5.24	4.47	4.46	4.53	4.50	4.54	4.53
7	7.04	6.97	6.49	6.47	5.24	5.14	4.47	4.44	4.50	4.49	4.55	4.54
8	7.07	6.99	6.47	6.45	5.14	5.10	4.44	4.43	4.49	4.48	4.55	4.51
9	7.03	6.98	6.45	6.41	5.10	5.04	4.46	4.43	4.48	4.43	4.51	4.49
10	6.98	6.95	6.41	6.32	5.04	5.01	4.48	4.46	4.43	4.42	4.52	4.49
11	7.01	6.95	6.32	6.25	5.01	4.99	4.52	4.48	4.42	4.38	4.58	4.52
12	7.00	6.87	6.25	6.20	5.00	4.99	4.52	4.52	4.38	4.33	4.61	4.58
13	6.87	6.84	6.20	6.08	5.00	4.99	4.53	4.52	4.33	4.28	4.62	4.61
14	6.84	6.82	6.10	6.05	5.02	5.00	4.53	4.51	4.42	4.28	4.62	4.61
15	6.82	6.78	6.05	5.99	5.02	4.98	4.51	4.50	4.52	4.42	4.63	4.61
16	6.79	6.77	5.99	5.98	4.99	4.98	4.51	4.51	4.55	4.52	4.61	4.57
17	6.78	6.73	5.98	5.95	4.98	4.93	4.53	4.51	4.56	4.55	4.62	4.57
18	6.80	6.78	5.95	5.93	4.94	4.93	4.54	4.52	4.59	4.56	4.65	4.62
19	6.80	6.77	5.93	5.86	4.95	4.93	4.52	4.49	4.59	4.58	4.69	4.65
20	6.79	6.75	5.86	5.84	4.96	4.95	4.49	4.48	4.59	4.58	4.70	4.68
21	6.84	6.79	5.84	5.81	4.96	4.94	4.48	4.46	4.61	4.59	4.71	4.68
22	6.83	6.81	5.81	5.81	4.94	4.90	4.46	4.46	4.62	4.61	4.68	4.66
23	6.81	6.79	5.81	5.81	4.91	4.83	4.47	4.46	4.63	4.62	4.69	4.66
24	6.79	6.76	5.81	5.75	4.83	4.76	4.53	4.47	4.62	4.55	4.70	4.69
25	6.79	6.77	5.75	5.66	4.76	4.72	4.55	4.53	4.55	4.49	4.75	4.69
26	6.78	6.76	5.66	5.56	4.72	4.69	4.59	4.55	4.49	4.42	4.79	4.75
27	6.77	6.76	5.56	5.53	4.69	4.63	4.64	4.59	4.42	4.40	4.85	4.79
28	6.77	6.75	5.53	5.50	4.63	4.60	4.66	4.64	4.43	4.40	4.86	4.85
29	6.75	6.74	5.50	5.49	4.60	4.51	4.66	4.66	4.47	4.43	4.85	4.81
30	6.74	6.70	5.49	5.48	4.51	4.46	4.66	4.66	4.49	4.47	4.81	4.78
31	---	---	5.49	5.48	---	---	4.68	4.66	4.49	4.48	---	---
MONTH	7.08	6.70	6.77	5.48	5.49	4.46	4.68	4.40	4.69	4.28	4.86	4.38
YEAR	7.08	2.20										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN DELAWARE

79

KENT COUNTY--Continued

WELL NUMBER.--GS4D. SITE ID.--390742075300102. PERMIT NUMBER.--104544.

LOCATION.--Lat 39°07'42", long 75°30'01", Hydrologic Unit 02040207, at Dover Air Force Base, Dover.

Owner: U.S. Air Force.

AQUIFER.--Columbia aquifer of Pleistocene age. Aquifer code: 112CLMB.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 25 ft; casing diameter 2 in., to 22 ft; screen diameter 2 in. from 22 to 25 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from Oct. 1, 1995, to March 16, 2000.

DATUM.--Altitude of land surface is 4.20 ft above sea level.

Measuring Point: Top of recorder platform 7.55 ft above land surface.

REMARKS.--Dover Air Force Base Project observation well. Periods of equal maximum and minimum daily values may be questionable due to the float hanging-up in small diameter wells or other well construction factors.

PERIOD OF RECORD.--September 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.96 ft above sea level, March 8, 9, and 21, 1998; lowest measured, 4.35 ft above sea level, Aug. 13, 1999.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.54	5.44	5.53	5.49	5.65	5.64	5.81	5.80	6.14	6.10	6.72	6.72
2	5.52	5.43	6.17	5.49	5.67	5.63	5.80	5.80	6.10	6.10	6.73	6.72
3	5.47	5.43	5.85	5.59	5.64	5.64	5.80	5.80	6.15	6.07	6.72	6.72
4	5.50	5.43	5.59	5.56	5.64	5.63	6.18	5.80	6.15	5.98	6.72	6.72
5	5.57	5.48	5.56	5.56	5.65	5.63	6.18	5.87	5.99	5.90	6.73	6.69
6	5.50	5.43	5.56	5.56	5.76	5.63	5.87	5.86	5.91	5.89	6.69	6.66
7	5.45	5.43	5.56	5.56	5.75	5.65	5.92	5.86	5.95	5.89	6.67	6.65
8	5.45	5.42	5.59	5.56	5.65	5.63	5.87	5.87	5.95	5.94	6.70	6.65
9	5.45	5.42	5.67	5.57	5.63	5.63	5.89	5.87	6.05	5.94	6.75	6.65
10	5.49	5.42	5.60	5.59	5.80	5.63	6.09	5.88	6.06	6.04	6.69	6.61
11	5.48	5.42	5.62	5.58	5.72	5.72	5.94	5.88	6.08	6.06	6.69	6.61
12	5.44	5.40	5.62	5.58	5.72	5.66	5.88	5.87	6.08	6.07	6.88	6.58
13	5.44	5.40	5.60	5.59	5.74	5.66	5.88	5.86	6.13	6.07	6.58	6.56
14	5.42	5.36	5.62	5.59	6.42	5.67	5.86	5.86	6.26	6.13	6.56	6.56
15	5.37	5.36	5.60	5.59	5.90	5.84	5.92	5.86	6.26	6.16	6.56	6.56
16	5.36	5.36	5.59	5.59	5.84	5.82	6.01	5.86	6.23	6.16	---	---
17	5.55	5.36	5.59	5.58	5.82	5.80	5.86	5.86	6.22	6.15	---	---
18	5.55	5.39	5.58	5.58	5.80	5.79	5.86	5.86	6.85	6.15	---	---
19	5.49	5.37	5.58	5.57	5.88	5.79	5.99	5.86	6.84	6.49	---	---
20	5.78	5.40	5.57	5.57	5.96	5.83	6.24	5.99	6.55	6.48	---	---
21	5.62	5.52	5.58	5.57	5.95	5.87	6.07	6.07	6.49	6.48	---	---
22	5.70	5.52	5.60	5.57	5.92	5.85	6.07	6.07	6.50	6.48	---	---
23	5.70	5.56	5.61	5.57	5.97	5.85	6.07	6.06	6.53	6.50	---	---
24	5.59	5.51	5.62	5.57	5.91	5.85	6.14	6.01	6.55	6.52	---	---
25	5.58	5.48	5.66	5.57	5.86	5.85	6.13	6.02	---	---	---	---
26	5.59	5.49	5.74	5.61	5.98	5.86	6.13	6.13	6.90	6.72	---	---
27	5.60	5.48	6.01	5.64	5.88	5.85	6.13	6.13	6.72	6.72	---	---
28	5.65	5.47	5.71	5.66	5.90	5.85	6.13	6.13	6.74	6.72	---	---
29	5.57	5.48	5.66	5.64	5.88	5.84	6.13	5.95	6.72	6.72	---	---
30	5.56	5.48	5.64	5.64	5.84	5.83	6.32	5.94	---	---	---	---
31	5.56	5.49	---	---	5.83	5.81	6.30	6.13	---	---	---	---
MONTH	5.78	5.36	6.17	5.49	6.42	5.63	6.32	5.80	6.90	5.89	6.88	6.56

GROUND-WATER LEVELS IN DELAWARE

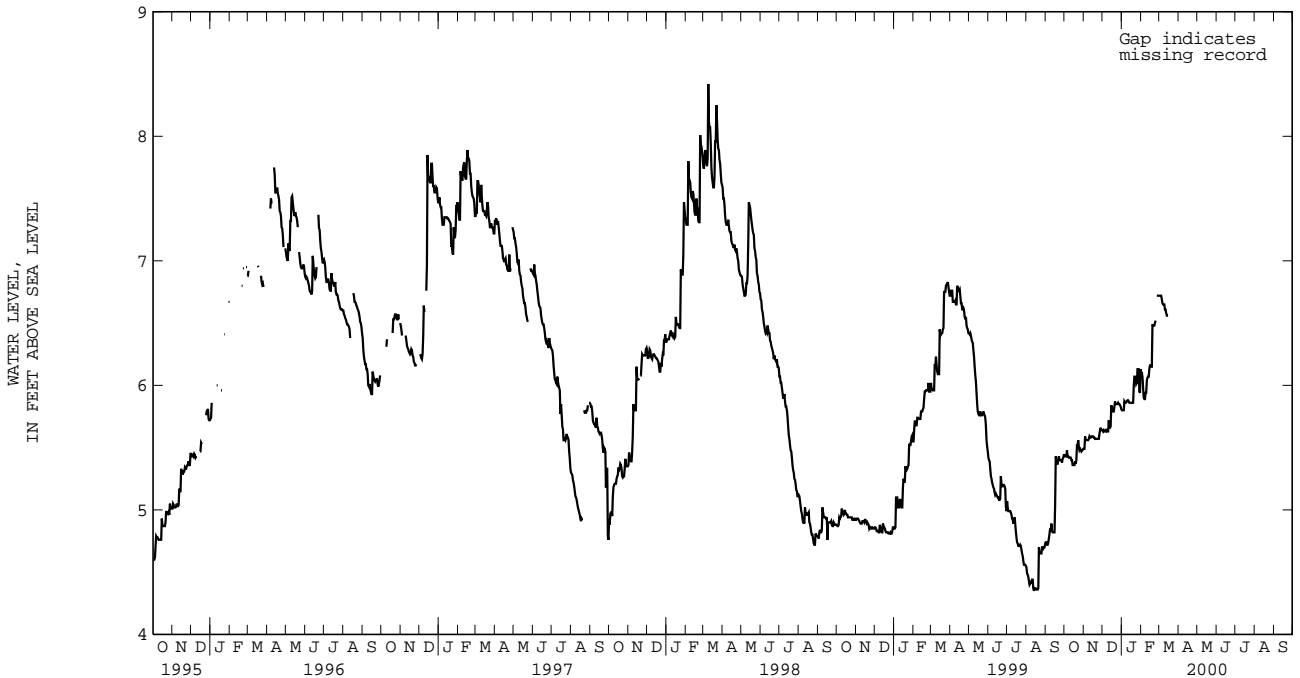
KENT COUNTY--Continued

GS4D--Continued

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR	6.90	5.36										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN DELAWARE

81

KENT COUNTY--Continued

WELL NUMBER.--MW33D. SITE ID.--390647075283301. PERMIT NUMBER.--73713.

LOCATION.--Lat 39°06'47", long 75°28'33", Hydrologic Unit 02040207, at Dover Air Force Base, Dover.

Owner: U.S. Air Force.

AQUIFER.--Columbia aquifer of Pleistocene age. Aquifer code: 112CLMB.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 55 ft; casing diameter 2 in., to 50 ft; screen diameter 2 in. from 50 to 55 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with pressure transducer water-level recorder--60-minute recorder interval from June 19, 1996, to current year.

DATUM.--Altitude of land surface is 8.92 ft above sea level.

Measuring Point: Top of PVC casing 1.77 ft above land surface.

REMARKS.--Dover Air Force Base Project observation well.

PERIOD OF RECORD.--June 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.96 ft above sea level, March 8, 9, and 21, 1998; lowest measured, 1.60 ft above sea level, May 25, 1997.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	4.60	4.56	5.04	4.99	5.22	5.18	4.55	4.51	4.30	4.24	4.52	4.43
2	4.57	4.55	5.34	5.04	5.22	5.17	4.55	4.51	4.24	4.19	4.50	4.44
3	4.55	4.52	5.28	5.15	5.22	5.18	4.51	4.48	4.27	4.20	4.48	4.43
4	4.56	4.51	5.19	5.15	5.24	5.18	4.56	4.49	4.20	4.16	4.47	4.42
5	4.56	4.52	5.24	5.17	5.24	5.19	4.58	4.47	4.18	4.12	4.44	4.36
6	4.58	4.52	5.28	5.23	5.22	5.19	4.57	4.48	4.17	4.09	4.39	4.36
7	4.53	4.48	5.24	5.20	5.21	5.10	4.60	4.51	4.19	4.12	4.46	4.36
8	4.56	4.51	5.24	5.18	5.10	5.04	4.57	4.51	4.17	4.10	4.47	4.42
9	4.57	4.53	5.28	5.21	5.05	5.01	4.57	4.53	4.22	4.17	4.53	4.46
10	4.61	4.55	5.28	5.23	5.07	4.95	4.72	4.53	4.25	4.17	4.48	4.44
11	4.58	4.50	5.23	5.14	4.96	4.90	4.61	4.49	4.27	4.20	4.60	4.48
12	4.57	4.51	5.30	5.19	4.90	4.85	4.57	4.49	4.23	4.19	4.64	4.52
13	4.57	4.53	5.29	5.25	4.85	4.80	4.66	4.47	4.24	4.18	4.58	4.52
14	4.56	4.42	5.33	5.19	5.25	4.80	4.51	4.47	4.36	4.24	4.65	4.58
15	4.51	4.44	5.25	5.20	5.11	5.04	4.54	4.47	4.30	4.24	4.68	4.63
16	4.57	4.51	5.22	5.14	5.07	4.94	4.59	4.44	4.31	4.18	4.81	4.68
17	4.65	4.57	5.15	5.11	4.95	4.89	4.46	4.40	4.18	4.13	4.82	4.72
18	4.66	4.55	5.18	5.14	4.91	4.85	4.49	4.43	4.54	4.16	4.85	4.75
19	4.68	4.56	5.21	5.16	4.87	4.84	4.44	4.39	4.65	4.53	4.89	4.83
20	4.92	4.67	5.21	5.16	4.93	4.85	4.50	4.38	4.59	4.53	4.89	4.84
21	4.93	4.89	5.16	5.12	4.87	4.80	4.38	4.30	4.53	4.47	6.15	4.89
22	5.01	4.93	5.14	5.09	4.83	4.78	4.30	4.25	4.48	4.42	6.68	6.15
23	5.04	4.98	5.14	5.09	4.87	4.77	4.29	4.25	4.44	4.40	6.54	6.25
24	4.99	4.92	5.15	5.10	4.79	4.71	4.30	4.21	4.40	4.36	6.25	6.06
25	4.96	4.89	5.15	5.10	4.74	4.69	4.41	4.25	4.41	4.30	6.07	5.96
26	5.00	4.94	5.24	5.15	4.79	4.67	4.25	4.20	4.44	4.40	5.99	5.84
27	4.96	4.90	5.38	5.18	4.67	4.62	4.21	4.15	4.47	4.42	6.04	5.83
28	5.00	4.91	5.30	5.21	4.68	4.61	4.17	4.14	4.45	4.39	6.16	5.93
29	5.01	4.97	5.23	5.18	4.63	4.57	4.16	4.13	4.45	4.39	5.93	5.83
30	5.03	4.98	5.20	5.16	4.63	4.55	4.30	4.13	---	---	5.86	5.80
31	5.05	5.02	---	---	4.58	4.51	4.32	4.27	---	---	5.81	5.77
MONTH	5.05	4.42	5.38	4.99	5.25	4.51	4.72	4.13	4.65	4.09	6.68	4.36

GROUND-WATER LEVELS IN DELAWARE

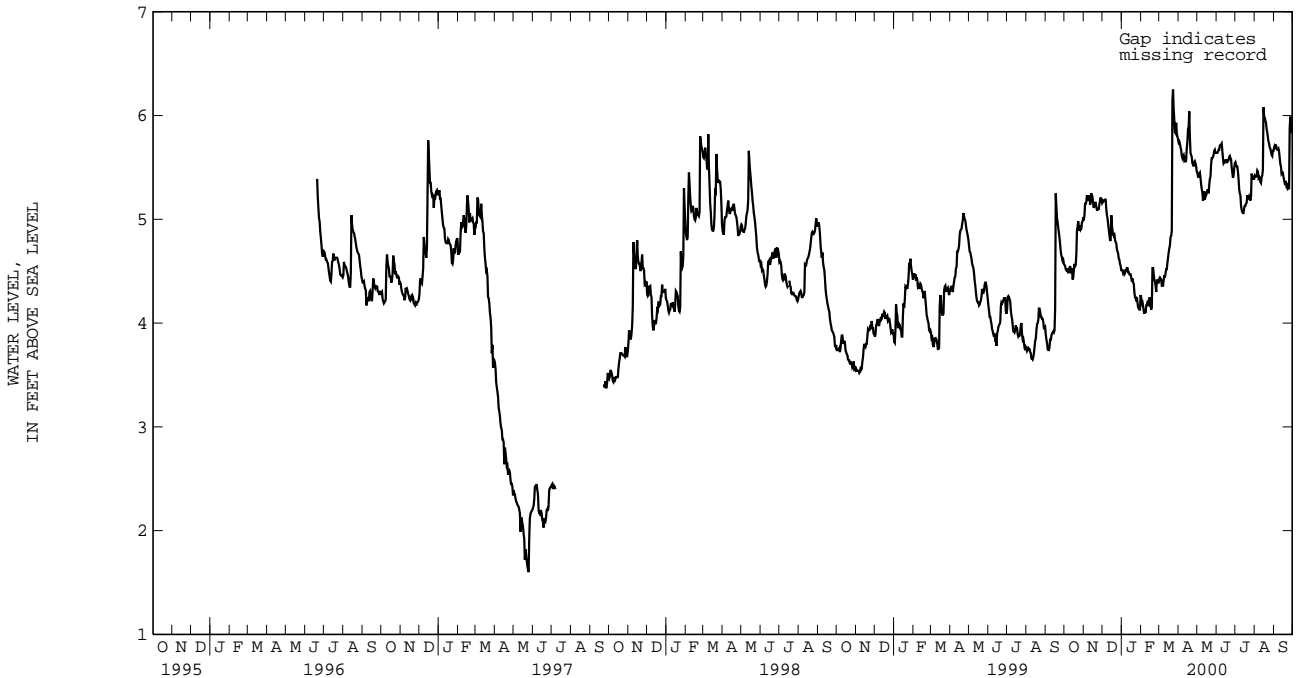
KENT COUNTY--Continued

MW33D--Continued

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.81	5.74	5.54	5.45	5.69	5.64	5.59	5.55	5.50	5.42	5.73	5.69
2	5.79	5.75	5.54	5.41	5.70	5.64	5.59	5.52	5.48	5.41	5.75	5.71
3	5.80	5.73	5.46	5.41	5.72	5.65	5.57	5.51	5.46	5.41	5.88	5.70
4	5.80	5.69	5.50	5.44	5.71	5.67	5.56	5.51	5.50	5.42	5.88	5.72
5	5.71	5.67	5.50	5.45	5.72	5.67	5.54	5.46	5.51	5.47	5.73	5.68
6	5.76	5.61	5.48	5.40	5.78	5.71	5.47	5.39	5.49	5.46	5.70	5.67
7	5.70	5.59	5.43	5.34	5.75	5.71	5.39	5.29	5.48	5.40	5.71	5.67
8	5.72	5.61	5.36	5.29	5.76	5.72	5.29	5.25	5.43	5.41	5.71	5.68
9	5.69	5.62	5.32	5.26	5.76	5.73	5.26	5.23	5.44	5.40	5.70	5.65
10	5.64	5.57	5.27	5.18	5.73	5.66	5.25	5.13	5.41	5.36	5.65	5.59
11	5.66	5.58	5.27	5.21	5.67	5.59	5.14	5.09	5.46	5.35	5.60	5.53
12	5.66	5.55	5.32	5.27	5.59	5.54	5.10	5.07	5.47	5.41	5.56	5.51
13	5.68	5.57	5.29	5.19	5.59	5.55	5.09	5.06	5.48	5.42	5.54	5.44
14	5.76	5.68	5.27	5.22	5.62	5.55	5.12	5.06	6.38	5.48	5.51	5.45
15	5.92	5.75	5.29	5.23	5.63	5.57	5.18	5.11	6.26	6.08	5.52	5.45
16	5.93	5.87	5.33	5.26	5.63	5.57	5.18	5.13	6.13	5.99	5.48	5.41
17	6.10	5.89	5.32	5.28	5.61	5.55	5.17	5.13	6.04	5.98	5.45	5.38
18	6.23	6.04	5.34	5.28	5.61	5.55	5.18	5.15	6.02	5.95	5.38	5.35
19	6.07	5.79	5.33	5.25	5.63	5.57	5.25	5.16	5.98	5.93	5.46	5.36
20	5.81	5.64	5.40	5.33	5.61	5.57	5.29	5.23	5.95	5.87	5.40	5.36
21	5.70	5.62	5.41	5.39	5.65	5.60	5.27	5.20	5.87	5.84	5.41	5.31
22	5.70	5.60	5.54	5.41	5.67	5.61	5.27	5.20	5.84	5.79	5.35	5.30
23	5.63	5.54	5.61	5.53	5.64	5.59	5.26	5.22	5.80	5.75	5.41	5.35
24	5.56	5.53	5.63	5.59	5.61	5.58	5.24	5.20	5.76	5.73	5.40	5.31
25	5.56	5.51	5.65	5.59	5.60	5.50	5.22	5.18	5.73	5.69	5.88	5.29
26	5.60	5.55	5.64	5.60	5.50	5.45	5.47	5.22	5.71	5.68	6.17	5.88
27	5.60	5.56	5.69	5.62	5.47	5.40	5.47	5.44	5.71	5.65	6.14	5.99
28	5.59	5.54	5.70	5.66	5.51	5.42	5.47	5.41	5.69	5.62	6.03	5.87
29	5.55	5.51	5.72	5.67	5.57	5.49	5.47	5.41	5.70	5.61	5.91	5.84
30	5.52	5.46	5.69	5.64	5.58	5.54	5.45	5.39	5.71	5.66	5.89	5.83
31	---	---	5.69	5.64	---	---	5.48	5.39	5.71	5.66	---	---
MONTH	6.23	5.46	5.72	5.18	5.78	5.40	5.59	5.06	6.38	5.35	6.17	5.29
YEAR	6.68	4.09										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN DELAWARE

83

KENT COUNTY--Continued

WELL NUMBER.--MW48D. SITE ID.--390703075272601. PERMIT NUMBER.--73749.

LOCATION.--Lat 39°07'03", long 75°27'26", Hydrologic Unit 02040207, at Dover Air Force Base, Dover.

Owner: U.S. Air Force.

AQUIFER.--Columbia aquifer of Pleistocene age. Aquifer code: 112CLMB.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 78.4 ft; casing diameter 2 in., to 73.4 ft; screen diameter 2 in. from 73.4 to 78.4 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from September 1995 to current year.

DATUM.--Altitude of land surface is 27.54 ft above sea level.

Measuring Point: Top of PVC casing, 1.57 ft above land surface.

REMARKS.--Dover Air Force Base Project. Periods of equal maximum and minimum daily values may be questionable due to the float hanging-up in small diameter wells or other well construction factors.

PERIOD OF RECORD.--September 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.61 ft above sea level, March 23, 1998; lowest measured, 7.26 ft above sea level, Jan. 13, 14, 1999.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.62	8.58	8.82	8.78	8.76	8.71	8.95	8.90	9.02	8.95	10.56	10.38
2	8.63	8.60	8.97	8.82	8.75	8.71	9.01	8.95	8.96	8.92	10.56	10.51
3	8.64	8.61	8.83	8.72	8.74	8.71	9.00	8.95	9.08	8.95	10.64	10.53
4	8.68	8.64	8.77	8.73	8.75	8.69	9.08	8.96	9.02	8.98	10.68	10.59
5	8.66	8.64	8.84	8.77	8.76	8.69	8.96	8.84	8.99	8.93	10.70	10.59
6	8.69	8.64	8.89	8.84	8.76	8.72	8.95	8.85	9.00	8.89	10.65	10.58
7	8.64	8.61	8.87	8.81	8.72	8.64	9.02	8.93	9.05	8.95	10.79	10.62
8	8.69	8.64	8.87	8.83	8.67	8.64	9.00	8.93	9.01	8.89	10.80	10.75
9	8.70	8.69	8.91	8.85	8.70	8.65	9.04	9.00	9.11	9.01	10.89	10.78
10	8.74	8.69	8.93	8.88	8.80	8.65	9.23	8.97	9.13	9.08	10.80	10.70
11	8.71	8.65	8.90	8.77	8.69	8.64	9.07	8.92	9.18	9.01	10.91	10.71
12	8.69	8.65	8.89	8.80	8.68	8.63	9.01	8.90	9.11	9.01	10.95	10.67
13	8.79	8.69	8.90	8.88	8.69	8.66	9.15	8.88	9.25	9.11	10.74	10.65
14	8.79	8.64	8.99	8.86	8.80	8.65	8.93	8.88	9.35	9.17	10.85	10.74
15	8.68	8.64	8.93	8.86	8.73	8.64	9.02	8.91	9.22	9.11	10.89	10.81
16	8.72	8.68	8.91	8.83	8.76	8.68	9.13	8.97	9.36	9.20	11.06	10.88
17	8.79	8.71	8.84	8.80	8.73	8.69	9.02	8.94	9.27	9.16	11.06	10.66
18	8.78	8.61	8.83	8.80	8.75	8.71	9.11	9.01	9.51	9.27	10.78	10.66
19	8.68	8.61	8.85	8.81	8.78	8.73	9.08	9.04	9.54	9.42	10.89	10.78
20	8.72	8.68	8.88	8.84	8.90	8.78	9.16	9.02	9.58	9.45	10.92	10.89
21	8.74	8.69	8.84	8.81	8.84	8.79	9.03	8.97	9.64	9.55	11.16	10.92
22	8.83	8.74	8.81	8.79	8.86	8.81	8.97	8.93	9.75	9.64	11.57	11.16
23	8.78	8.72	8.81	8.78	8.94	8.83	9.02	8.96	9.88	9.75	11.95	11.57
24	8.74	8.70	8.80	8.78	8.91	8.85	9.10	8.97	9.98	9.88	12.13	11.95
25	8.75	8.68	8.79	8.78	8.95	8.85	9.20	8.98	10.01	9.96	12.39	12.13
26	8.81	8.75	8.84	8.79	9.06	8.93	8.99	8.93	10.10	9.97	12.46	12.38
27	8.78	8.73	8.81	8.74	8.97	8.91	8.95	8.90	10.30	10.10	12.76	12.44
28	8.78	8.73	8.75	8.70	9.03	8.94	8.93	8.89	10.30	10.23	12.81	12.76
29	8.79	8.76	8.75	8.70	9.00	8.89	8.92	8.89	10.38	10.26	12.82	12.75
30	8.79	8.76	8.74	8.69	8.99	8.93	9.12	8.92	---	---	12.99	12.81
31	8.83	8.78	---	---	8.95	8.89	9.08	8.95	---	---	13.04	12.97
MONTH	8.83	8.58	8.99	8.69	9.06	8.63	9.23	8.84	10.38	8.89	13.04	10.38

GROUND-WATER LEVELS IN DELAWARE

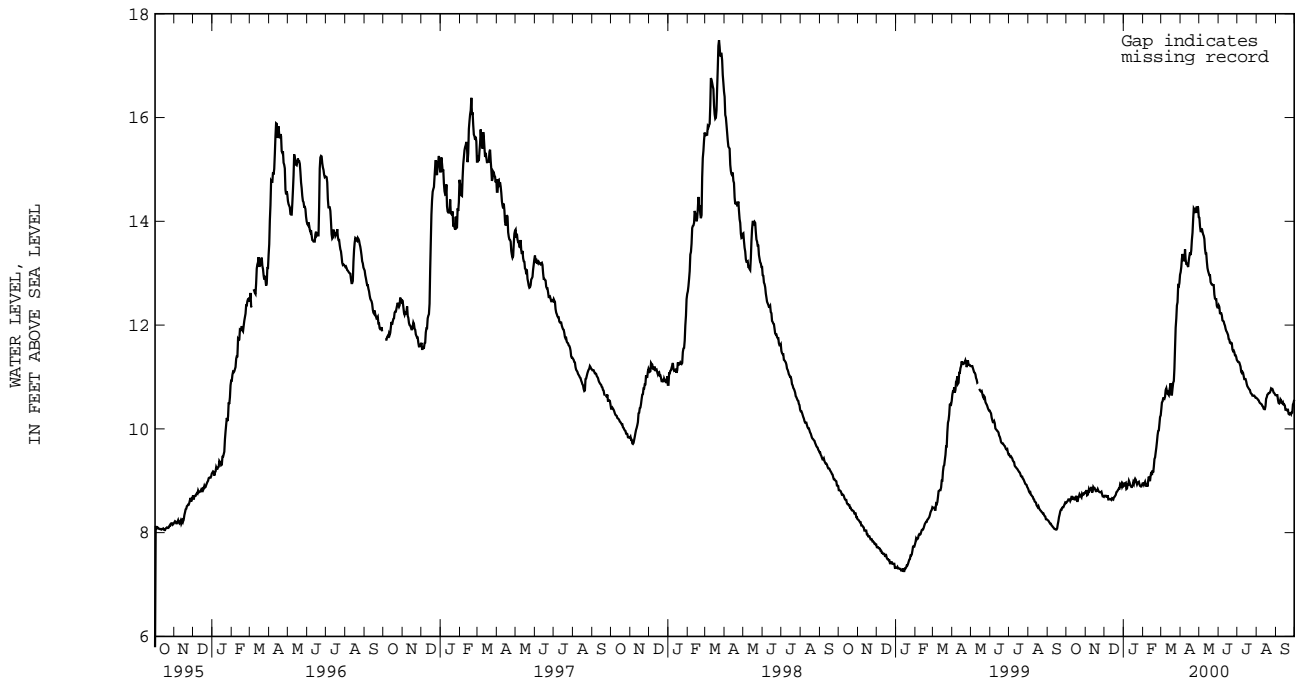
KENT COUNTY--Continued

MW48D--Continued

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.12	13.02	14.28	14.07	12.40	12.38	11.33	11.31	10.62	10.59	10.67	10.65
2	13.28	13.12	14.31	13.90	12.41	12.35	11.31	11.29	10.59	10.58	10.66	10.65
3	13.46	13.28	13.90	13.81	12.36	12.23	11.30	11.29	10.58	10.56	10.66	10.65
4	13.55	13.37	13.87	13.81	12.25	12.23	11.30	11.28	10.56	10.55	10.66	10.56
5	13.37	13.30	13.90	13.86	12.26	12.23	11.28	11.24	10.55	10.52	10.56	10.50
6	13.57	13.33	13.86	13.80	12.31	12.19	11.24	11.20	10.54	10.50	10.51	10.49
7	13.46	13.23	13.80	13.75	12.19	12.09	11.20	11.10	10.53	10.49	10.57	10.51
8	13.61	13.46	13.77	13.72	12.13	12.08	11.11	11.08	10.50	10.48	10.59	10.57
9	13.53	13.26	13.72	13.66	12.12	12.07	11.15	11.10	10.52	10.47	10.57	10.55
10	13.26	13.18	13.66	13.47	12.07	12.02	11.16	11.08	10.48	10.44	10.55	10.50
11	13.38	13.18	13.47	13.38	12.03	11.99	11.08	11.02	10.45	10.43	10.52	10.49
12	13.41	13.15	13.45	13.38	11.99	11.93	11.02	10.96	10.43	10.39	10.54	10.51
13	13.24	13.12	13.40	13.22	11.93	11.89	10.97	10.96	10.40	10.38	10.53	10.47
14	13.33	13.24	13.22	13.10	11.91	11.87	10.99	10.96	10.46	10.38	10.54	10.47
15	13.46	13.33	13.10	13.04	11.94	11.84	11.00	10.92	10.58	10.44	10.57	10.45
16	13.48	13.40	13.05	13.00	11.86	11.81	10.92	10.86	10.65	10.58	10.45	10.37
17	13.44	13.35	13.01	12.96	11.81	11.73	10.86	10.82	10.66	10.61	10.42	10.37
18	13.64	13.44	13.04	12.96	11.77	11.72	10.84	10.80	10.73	10.66	10.40	10.36
19	13.78	13.64	13.01	12.83	11.72	11.66	10.80	10.78	10.70	10.67	10.50	10.37
20	14.03	13.78	12.84	12.80	11.66	11.65	10.81	10.76	10.70	10.69	10.40	10.37
21	14.29	14.03	12.81	12.78	11.74	11.66	10.76	10.75	10.71	10.69	10.43	10.29
22	14.27	14.25	12.82	12.78	11.70	11.65	10.75	10.70	10.73	10.70	10.32	10.28
23	14.26	14.23	12.84	12.77	11.65	11.53	10.70	10.68	10.80	10.73	10.37	10.30
24	14.23	14.20	12.89	12.77	11.53	11.50	10.69	10.67	10.79	10.78	10.38	10.30
25	14.27	14.23	12.78	12.59	11.56	11.51	10.67	10.64	10.78	10.77	10.34	10.28
26	14.24	14.18	12.59	12.51	11.51	11.48	10.66	10.64	10.77	10.77	10.38	10.32
27	14.29	14.18	12.56	12.50	11.48	11.42	10.66	10.64	10.77	10.74	10.47	10.32
28	14.35	14.29	12.57	12.50	11.44	11.42	10.66	10.64	10.74	10.70	10.53	10.47
29	14.32	14.26	12.51	12.37	11.44	11.39	10.66	10.62	10.70	10.69	10.56	10.50
30	14.27	14.08	12.37	12.34	11.39	11.33	10.63	10.60	10.69	10.67	10.65	10.56
31	---	---	12.40	12.34	---	---	10.62	10.60	10.67	10.65	---	---
MONTH	14.35	13.02	14.31	12.34	12.41	11.33	11.33	10.60	10.80	10.38	10.67	10.28
YEAR	14.35	8.58										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

NEW CASTLE COUNTY

WELL NUMBER.--Db15-05. SITE ID.--393917075401601.

LOCATION.--Lat 39°39'17", long 75°40'16", Hydrologic Unit 02040205, Smalley's Dam, at the Wilmington Suburban Water Co. plant.
Owner: Wilmington Suburban Water Co.

AQUIFER.--Lower Potomac aquifer of the Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 306 ft; casing diameter 12 in., to 215.5 ft, and 238.5 to 273.5 ft, screen diameter 12 in., from 215.5 to 238.5 ft and 273.5 to 306 ft.

INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder from March 1979 to November 1981.

DATUM.--Elevation of land surface is 20 ft above sea level, from topographic map.

Measuring Point: Top of 12 in. casing, 2.27 ft above land surface.

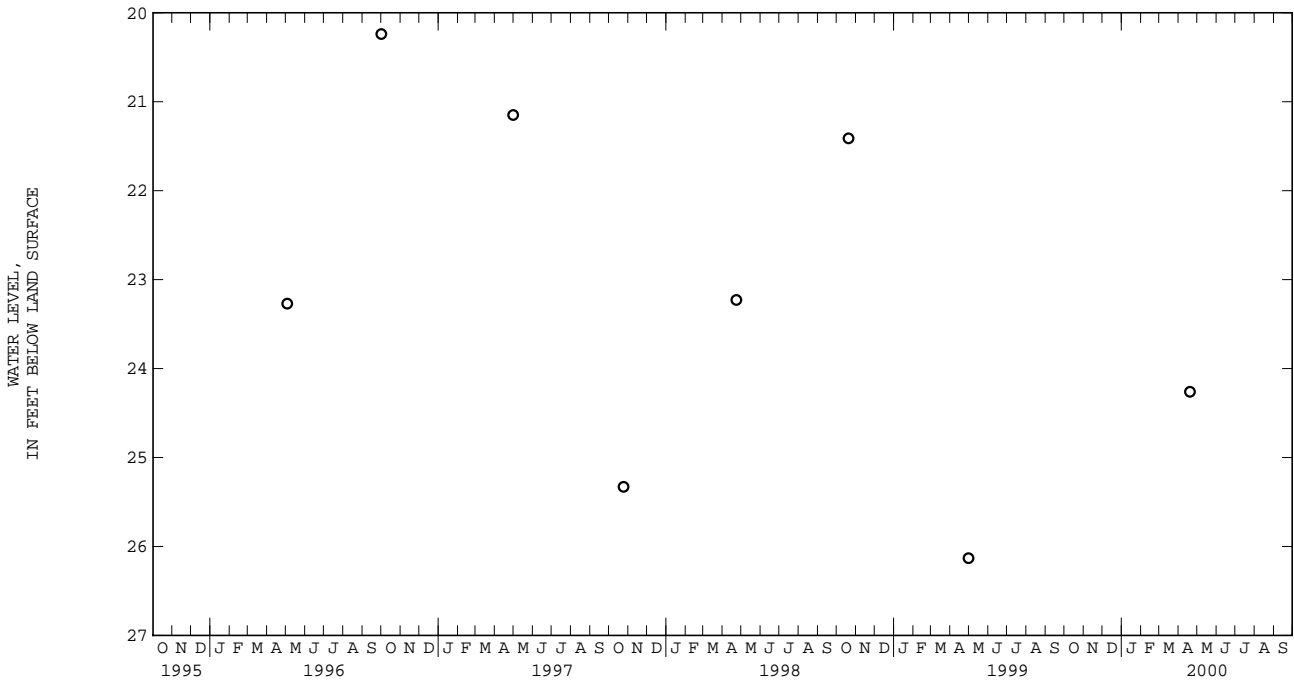
REMARKS.--Delaware Water-Level Network observation well.

PERIOD OF RECORD.--March 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.24 ft below land surface, Oct. 1, 1996;
lowest measured, 39.31 ft below land surface, Sept. 30, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL
APR 19, 2000	24.26



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

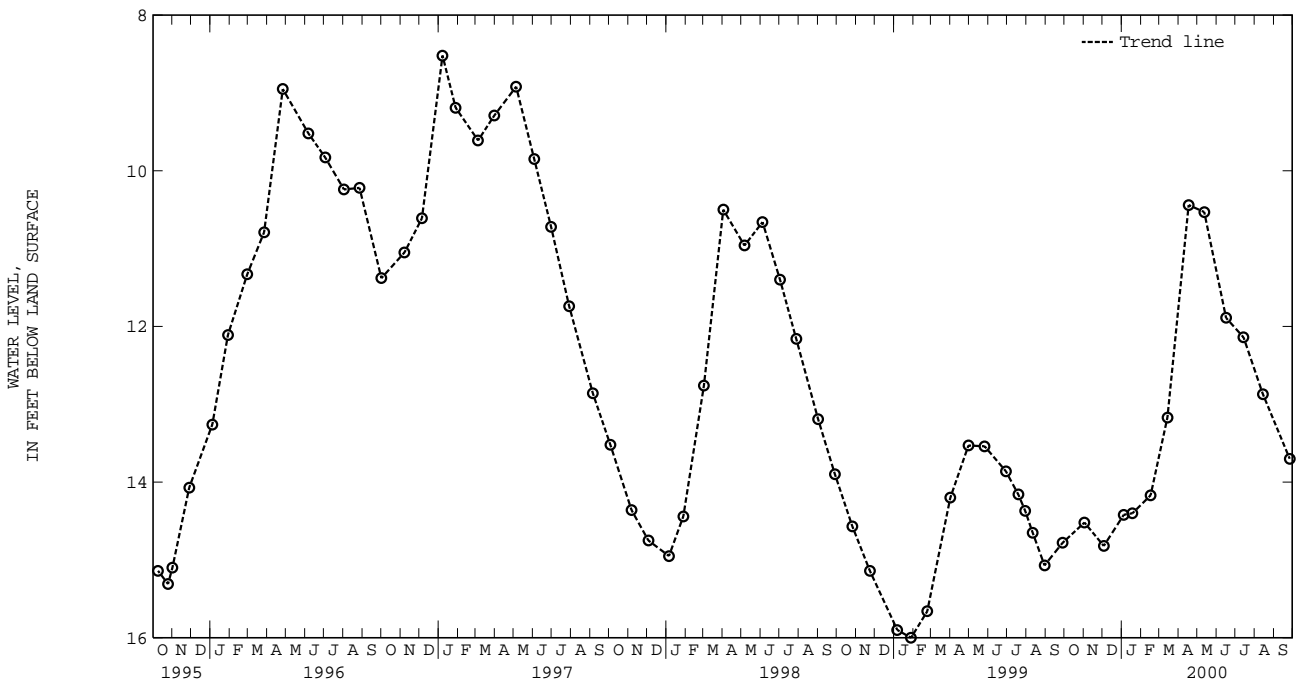
GROUND-WATER LEVELS IN DELAWARE--Continued

NEW CASTLE COUNTY--Continued

WELL NUMBER.--Db24-17. SITE ID.--393856075415402. PERMIT NUMBER.--65430.
 LOCATION.--Lat 39°38'56", long 75°41'54", Hydrologic Unit 02040205, 2 mi south of Ogetown.
 Owner: Delaware Department of Transportation.
 AQUIFER.--Columbia aquifer of Pleistocene age. Aquifer code: 112CLMB.
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 22 ft; casing diameter 2 in., to 17 ft; screen diameter 2 in., from 17 to 22 ft.
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by Delaware Geological Survey personnel.
 DATUM.--Elevation of land surface is 77 ft above sea level, from topographic map.
 Measuring point: Top of casing, 0.55 ft above land surface.
 REMARKS.--Water-level measurements furnished by Delaware Geological Survey.
 PERIOD OF RECORD.--June 1986 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.42 ft below land surface, April 29, 1993;
 lowest measured, 16.00 ft below land surface, Jan. 28, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	
NOV 02, 1999	14.52	JAN 18, 2000	14.40	APR 17, 2000	10.44	JUL 14, 2000	12.14	
DEC 03	14.82	FEB 16	14.17	MAY 12	10.53	AUG 14	12.87	
JAN 04, 2000	14.42	MAR 14	13.17	JUN 16	11.89	SEP 26	13.70	
WATER YEAR 2000 HIGHEST		10.44	APR 17, 2000		LOWEST		14.82	DEC 03, 1999



NEW CASTLE COUNTY--Continued

WELL NUMBER.--Db33-17. SITE ID.--393734075371103. PERMIT NUMBER--44612.

LOCATION.--Lat 39°37'34", long 75°37'11", Hydrologic Unit 02040205, off Salem Church Road, near Beck's Pond.

Owner: U.S. Geological Survey.

AQUIFER.--Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 189 ft; casing diameter 2 in., to 185 ft; screen diameter 2 in., from 185 to 189 ft. Installed in a 8 in. borehole with Db33-18, and Db33-19.

INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel. Measured monthly from October 1980 to November 1981.

DATUM.--Elevation of land surface is 48 ft above sea level, from topographic map.

Measuring Point: Top of coupling, 3.26 ft above land surface.

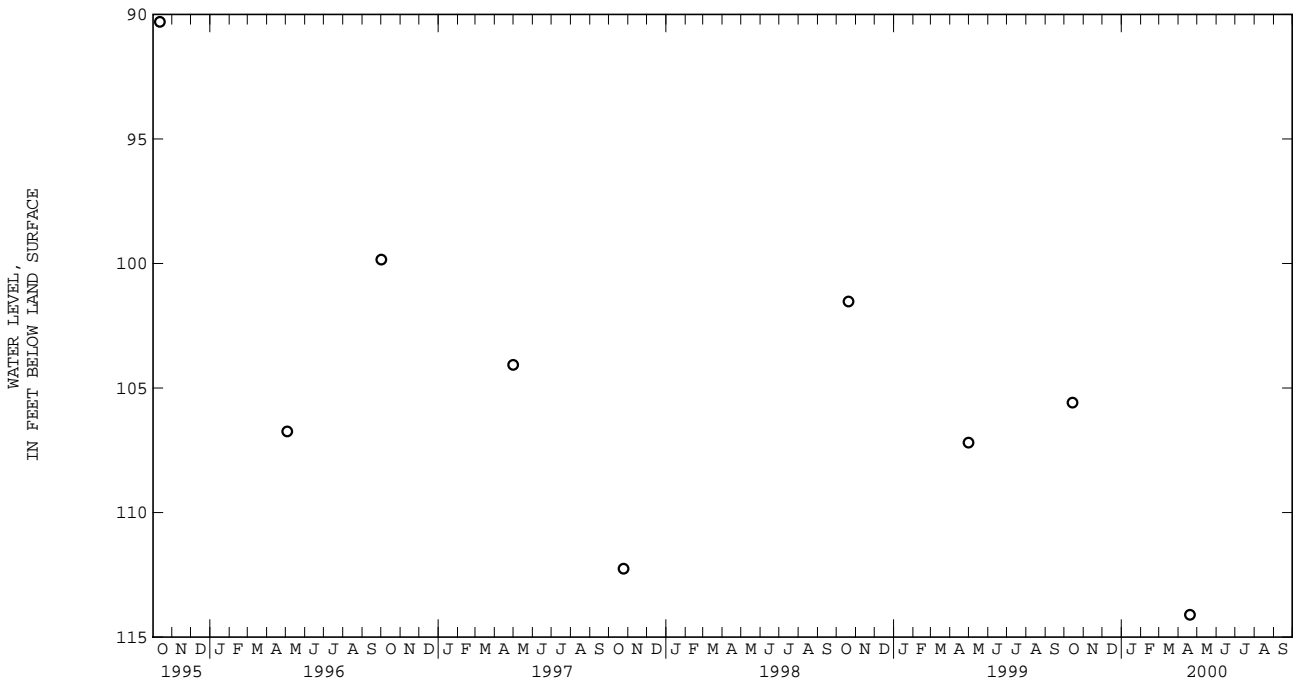
REMARKS.--Delaware Water-Level Network observation well. Water levels are affected by regional ground-water withdrawal.

PERIOD OF RECORD.--October 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 90.30 ft below land surface, Oct. 12, 1995; lowest measured, 115.82 ft below land surface, Oct. 15, 1990.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14, 1999	105.59	APR 19, 2000	114.10
WATER YEAR 2000 HIGHEST 105.59 OCT 14, 1999		LOWEST 114.10 APR 19, 2000	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN DELAWARE--Continued

NEW CASTLE COUNTY--Continued

WELL NUMBER.--Db33-18. SITE ID.--393734075371102. PERMIT NUMBER--44612.

LOCATION.--Lat 39°37'34", long 75°37'11", Hydrologic Unit 02040205, off Salem Church Road, near Beck's Pond.

Owner: U.S. Geological Survey.

AQUIFER.--Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 143 ft; casing diameter 2 in., to 139 ft; screen diameter 2 in., from 139 to 143 ft. Installed in a 8 in. borehole with Db33-17, and Db33-19.

INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel. Measured monthly from October 1980 to November 1981.

DATUM.--Elevation of land surface is 48 ft above sea level, from topographic map.

Measuring Point: Top of coupling, 3.24 ft above land surface.

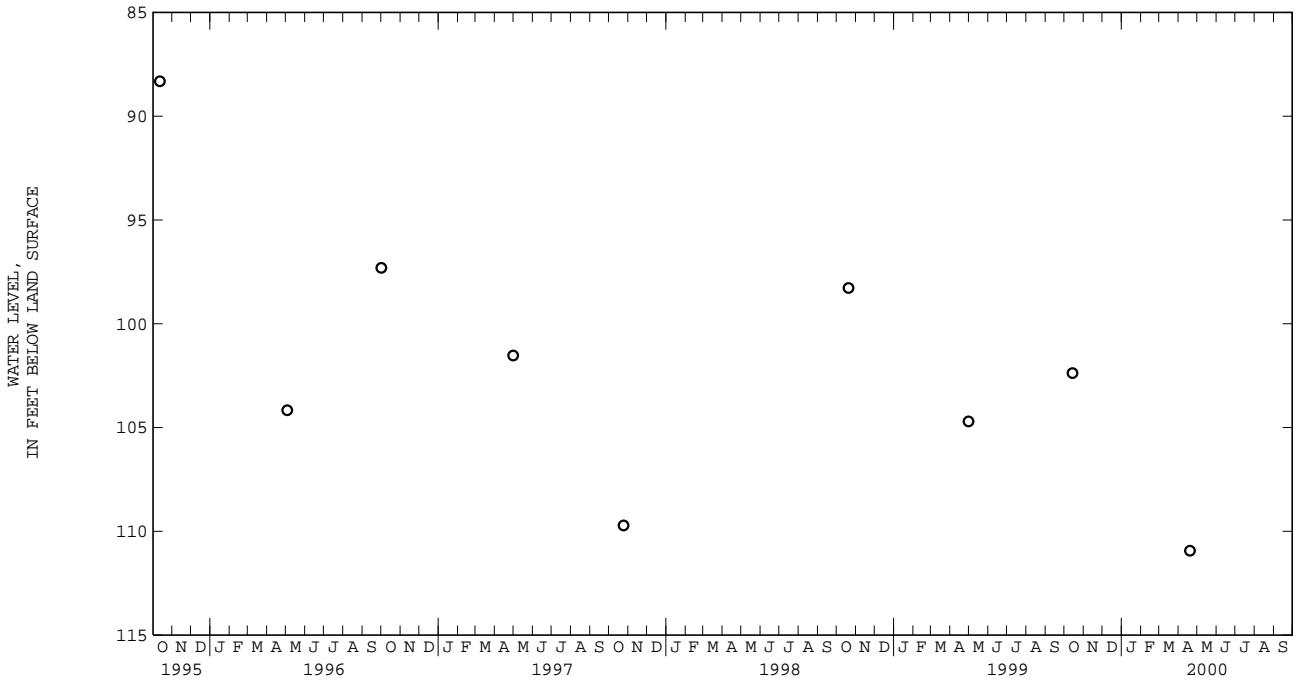
REMARKS.--Delaware Water-Level Network observation well.

PERIOD OF RECORD.--October 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 88.31 ft below land surface, Oct. 12, 1995; lowest measured, 113.44 ft below land surface, Oct. 15, 1990.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14, 1999	102.38	APR 19, 2000	110.93
WATER YEAR 2000 HIGHEST 102.38		OCT 14, 1999 LOWEST 110.93	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

NEW CASTLE COUNTY--Continued

WELL NUMBER.--Db33-19. SITE ID.--393734075371101. PERMIT NUMBER--44612.

LOCATION.--Lat 39°37'34", long 75°37'11", Hydrologic Unit 02040205, off Salem Church Road, near Beck's Pond.

Owner: U.S. Geological Survey.

AQUIFER.--Columbia aquifer of Pleistocene age. Aquifer code: 112CLMB.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 39 ft; casing diameter 2 in; to 35 ft; screen diameter 2 in., from 35 to 39 ft. Installed in a 8 in. borehole with Db33-17, and Db33-18.

INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel. Measured monthly from October 1980 to November 1981.

DATUM.--Elevation of land surface is 48 ft above sea level, from topographic map.

Measuring Point: Top of coupling, 3.29 ft above land surface.

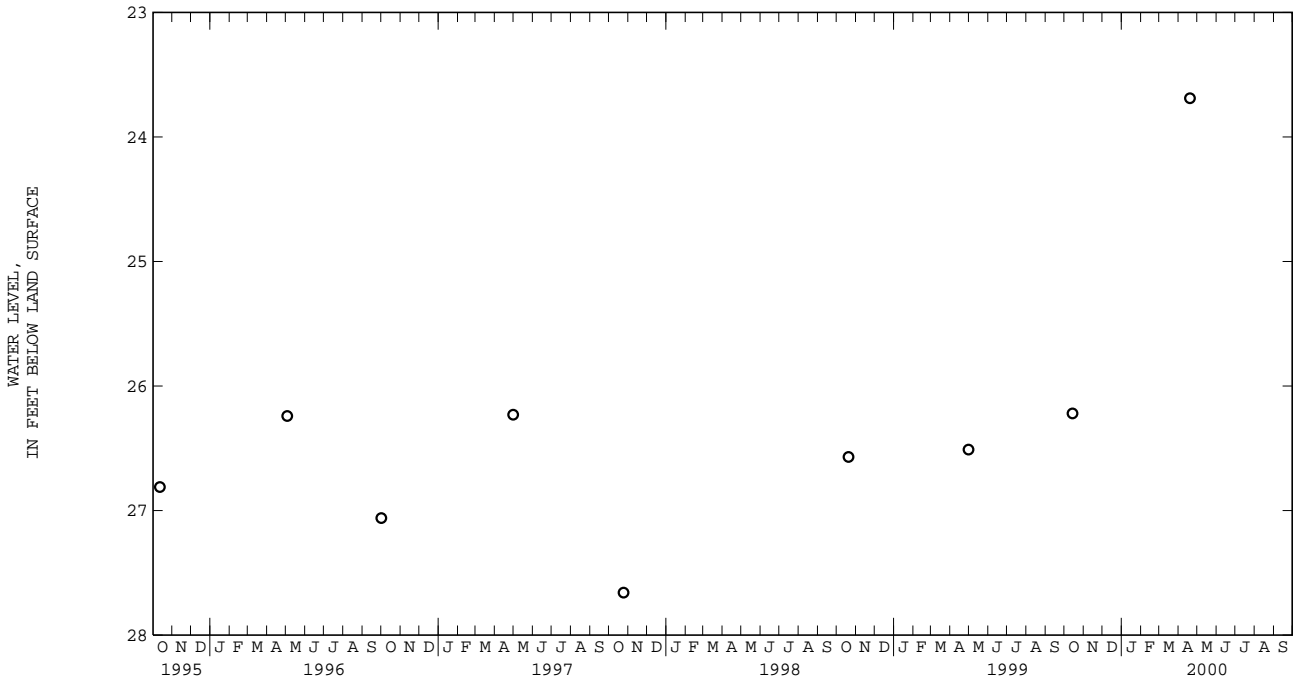
REMARKS.--Delaware Water-Level Network observation well.

PERIOD OF RECORD.--October 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.69 ft below land surface, April 19, 2000; lowest measured 28.23 ft below land surface, April 3, 1981.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14, 1999	26.22	APR 19, 2000	23.69
WATER YEAR 2000 HIGHEST		23.69 APR 19, 2000	LOWEST
		26.22	OCT 14, 1999



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN DELAWARE--Continued

NEW CASTLE COUNTY--Continued

WELL NUMBER.--Dc34-05. SITE ID.--393755075364801.

LOCATION.--Lat 39°37'55", long 75°36'48", Hydrologic Unit 02040205, east side of Rt. 9, at National Guard Rifle Range.

Owner: U.S. Geological Survey.

AQUIFER.--Lower Potomac aquifer of the Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 579 ft; casing diameter 2 in., to 574 ft; screen diameter 2 in., from 574 to 579 ft.

INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel. Measured monthly from November 1975 to November 1981.

DATUM.--Elevation of land surface is 28 ft above sea level, from topographic map.

Measuring Point: Top of coupling, 2.10 ft above land surface.

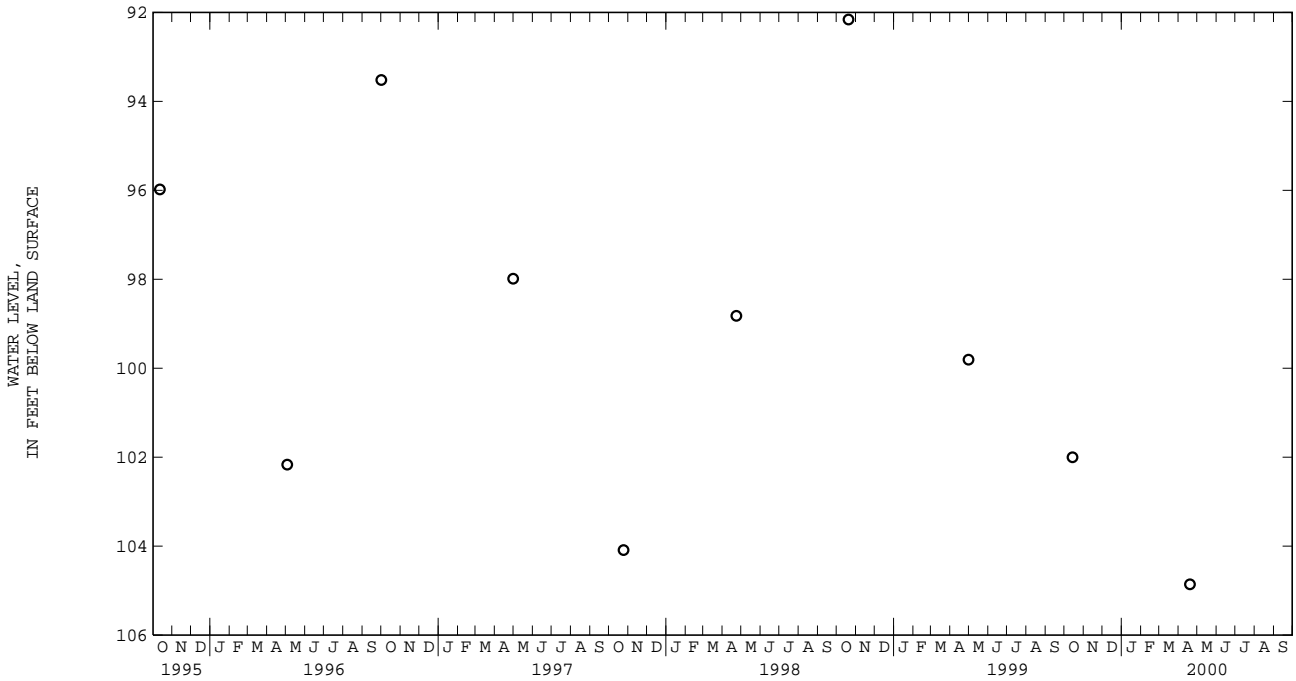
REMARKS.--Delaware Water-Level Network observation well.

PERIOD OF RECORD.--November 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 88.38 ft below land surface, Oct. 10, 1984; lowest measured, 130.62 ft below land surface, May 5, 1978.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14, 1999	102.00	APR 19, 2000	104.86
WATER YEAR 2000 HIGHEST 102.00		LOWEST 104.86 APR 19, 2000	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

NEW CASTLE COUNTY--Continued

WELL NUMBER.--Dc34-06. SITE ID.--393755075364802.

LOCATION.--Lat 39°37'55", long 75°36'48", Hydrologic Unit 02040205, east side of Rt. 9, at National Guard Rifle Range.

Owner: U.S. Geological Survey

AQUIFER.--Upper Potomac aquifer of the Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 188 ft; casing diameter 2 in., to 183 ft; screened from 183 to 188 ft.

INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder from November 1975 to October 1982. Beginning March 1982, water-level measured twice yearly.

DATUM.--Elevation of land surface is 28 ft above sea level, from topographic map.

Measuring Point: Top of 6 in. casing, 2.00 ft above land surface.

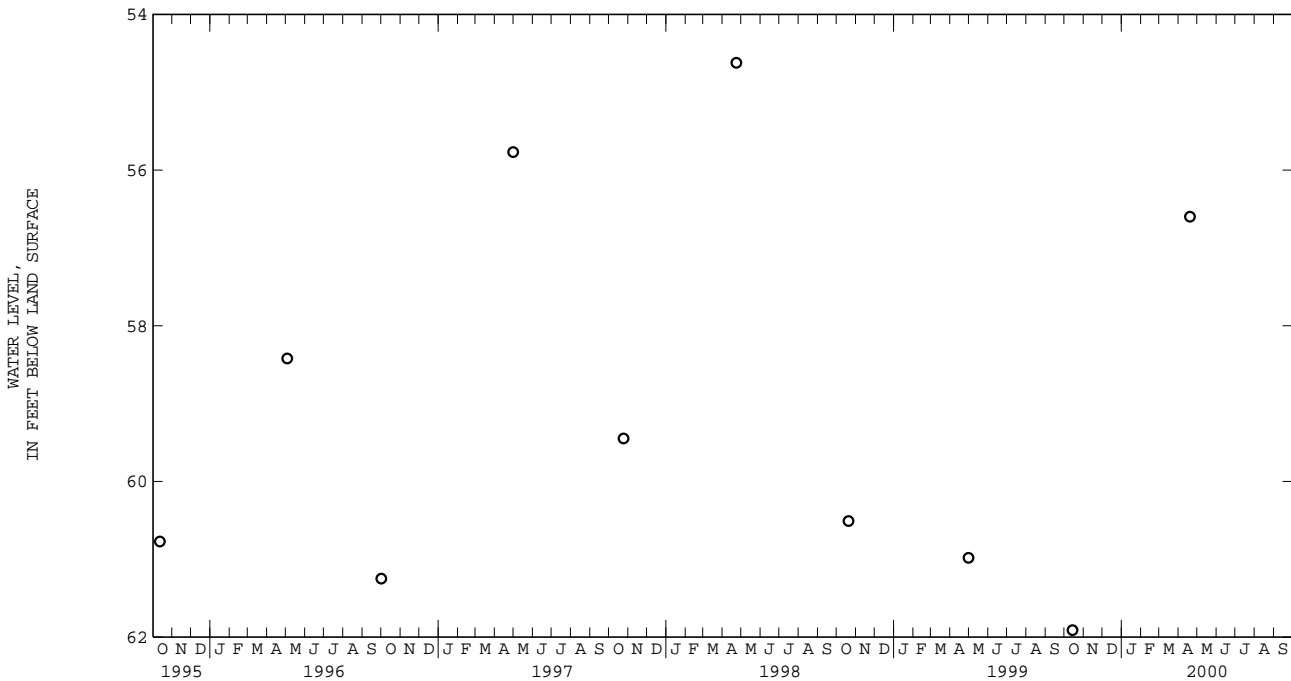
REMARKS.--Delaware Water-Level Network observation well.

PERIOD OF RECORD.--November 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39.94 ft below land surface, Feb. 15, 1976; lowest measured, 62.37 ft below land surface, Oct. 15, 1982.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14, 1999	61.91	APR 19, 2000	56.60
WATER YEAR 2000 HIGHEST 56.60		APR 19, 2000 LOWEST 61.91	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN DELAWARE--Continued

NEW CASTLE COUNTY--Continued

WELL NUMBER.--Eb23-22. SITE ID.--393316075421601.

LOCATION.--Lat 39°33'16", long 75°42'16", Hydrologic Unit 02040205, at Lums Pond State Park.

Owner: U.S. Geological Survey.

AQUIFER.--Magothy Formation of Upper Cretaceous age. Aquifer code : 211MGTY.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 105 ft; casing diameter 2 in., to 101 ft, screened from 101 to 105 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 60 ft above sea level, from topographic map.

Measuring Point: Top of casing, 2.50 ft above land surface.

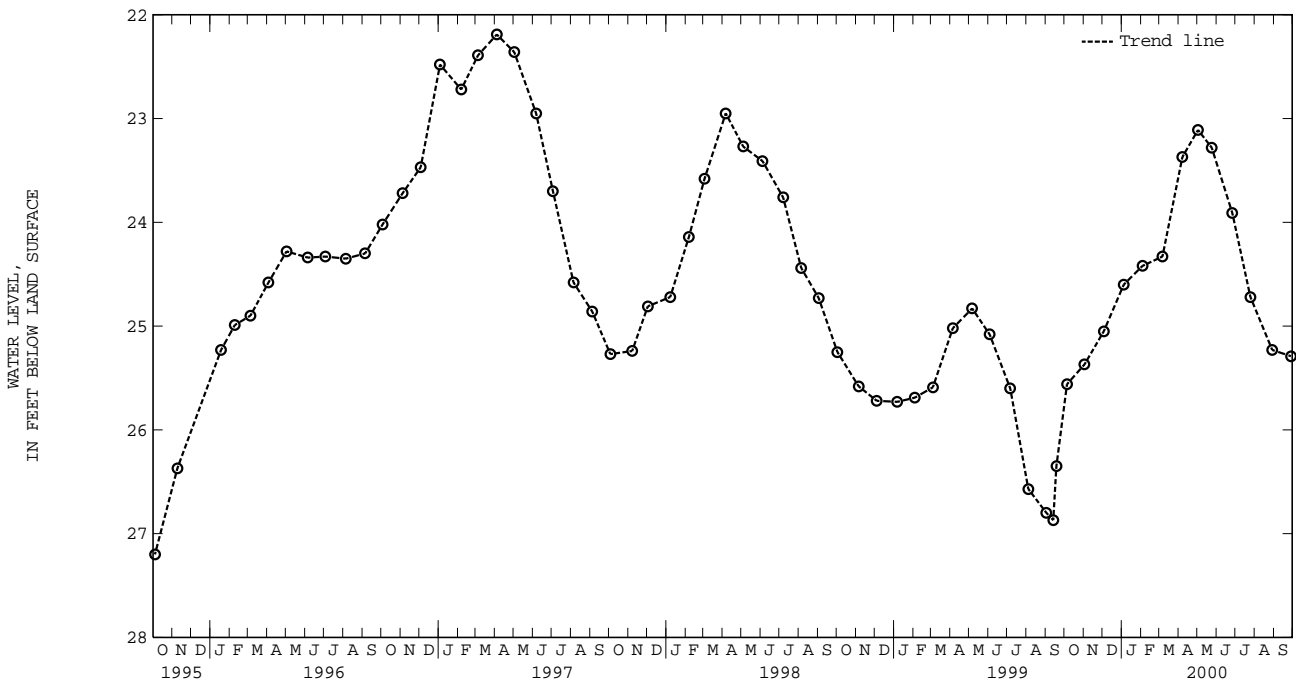
REMARKS.--Delaware Water-Level Network observation well.

PERIOD OF RECORD.--November 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.19 ft below land surface, April 4, 1997; lowest measured, 27.42 ft below land surface, Oct. 2, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	25.56	FEB 03, 2000	24.42	MAY 24, 2000	23.28	SEP 28, 2000	25.29
NOV 02	25.37	MAR 06	24.33	JUN 26	23.91		
DEC 03	25.05	APR 07	23.37	JUL 25	24.72		
JAN 04, 2000	24.60	MAY 02	23.11	AUG 29	25.23		
WATER YEAR 2000 HIGHEST 23.11		MAY 02, 2000		LOWEST 25.56		OCT 05, 1999	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

NEW CASTLE COUNTY--Continued

WELL NUMBER.--Eb23-23. SITE ID.--393316075421602.

LOCATION.--Lat 39°33'16", long 75°42'16", Hydrologic Unit 02040205, at Lums Pond State Park.

Owner: U.S. Geological Survey.

AQUIFER.--Upper Potomac aquifer of the Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 292 ft; casing diameter 2 in., to 288 ft, screened from 288 to 292 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 60 ft above sea level, from topographic map.

Measuring Point: Top of casing, 2.35 ft above land surface.

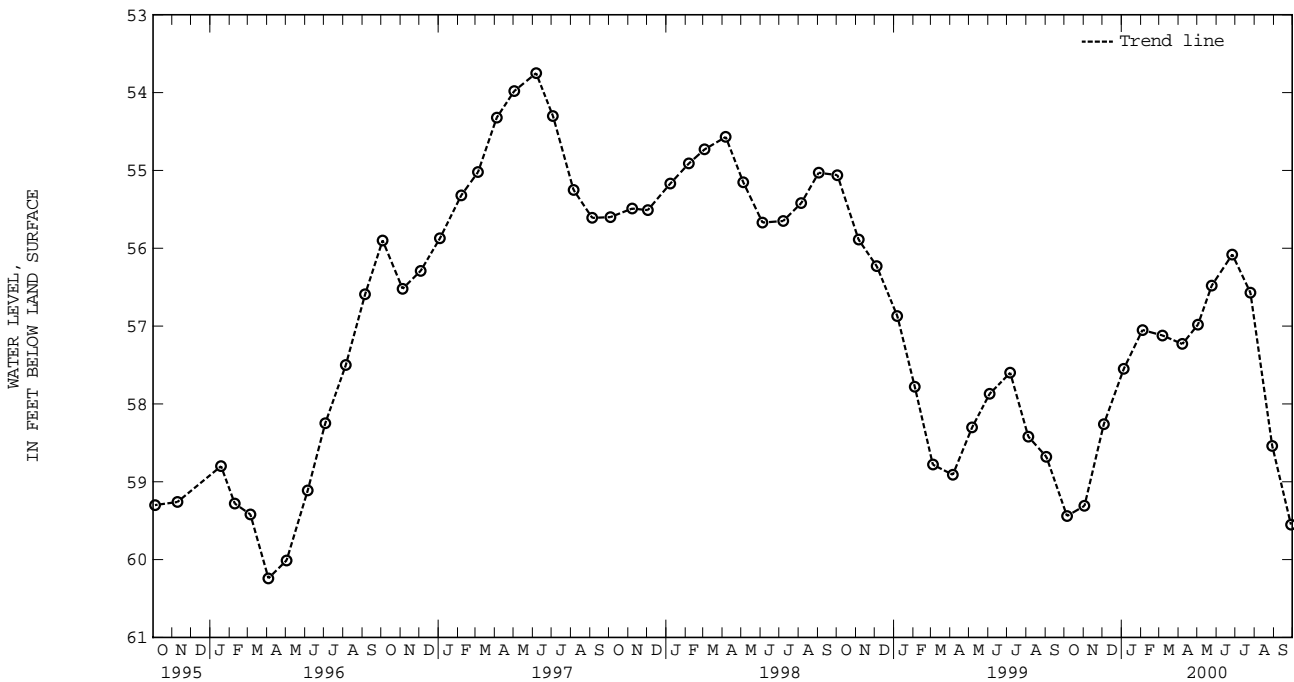
REMARKS.--Delaware Water-Level Network observation well.

PERIOD OF RECORD.--November 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 52.38 ft below land surface, Oct. 12, 1982; lowest measured, 60.60 ft below land surface, June 3, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	59.44	FEB 03, 2000	57.05	MAY 24, 2000	56.48	SEP 28, 2000	59.55
NOV 02	59.31	MAR 06	57.12	JUN 26	56.08		
DEC 03	58.26	APR 07	57.23	JUL 25	56.57		
JAN 04, 2000	57.55	MAY 02	56.98	AUG 29	58.54		
WATER YEAR 2000 HIGHEST		56.08 JUN 26, 2000	LOWEST		59.55 SEP 28, 2000		



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN DELAWARE--Continued

NEW CASTLE COUNTY--Continued

WELL NUMBER.--Eb23-24. SITE ID.--393316075421603.

LOCATION.--Lat 39°33'16", long 75°42'16", Hydrologic Unit 02040205, at Lums Pond State Park.

Owner: U.S. Geological Survey.

AQUIFER.--Middle Potomac aquifer of the Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 436 ft; casing diameter 2 in., to 432 ft, screened from 432 to 436 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 60 ft above sea level, from topographic map.

Measuring Point: Top of casing, 2.38 ft above land surface.

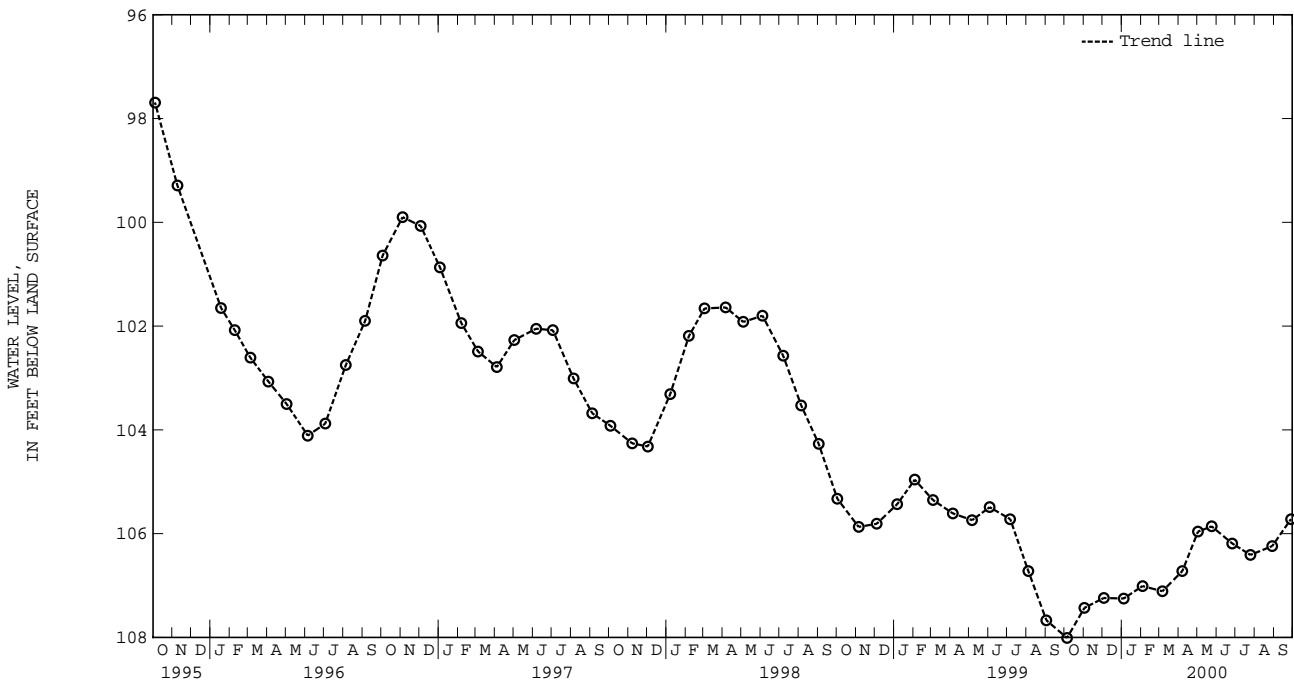
REMARKS.--Delaware Water-Level Network observation well. Water-levels are affected by regional ground-water withdrawal.

PERIOD OF RECORD.--November 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 88.17 ft below land surface, Nov. 13, 1980; lowest measured, 108.01 ft below land surface, Oct. 5, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	108.01	FEB 03, 2000	107.01	MAY 24, 2000	105.86	SEP 28, 2000	105.72
NOV 02	107.43	MAR 06	107.11	JUN 26	106.19		
DEC 03	107.24	APR 07	106.72	JUL 25	106.41		
JAN 04, 2000	107.25	MAY 02	105.96	AUG 29	106.24		
WATER YEAR 2000 HIGHEST 105.72		SEP 28, 2000		LOWEST 108.01		OCT 05, 1999	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

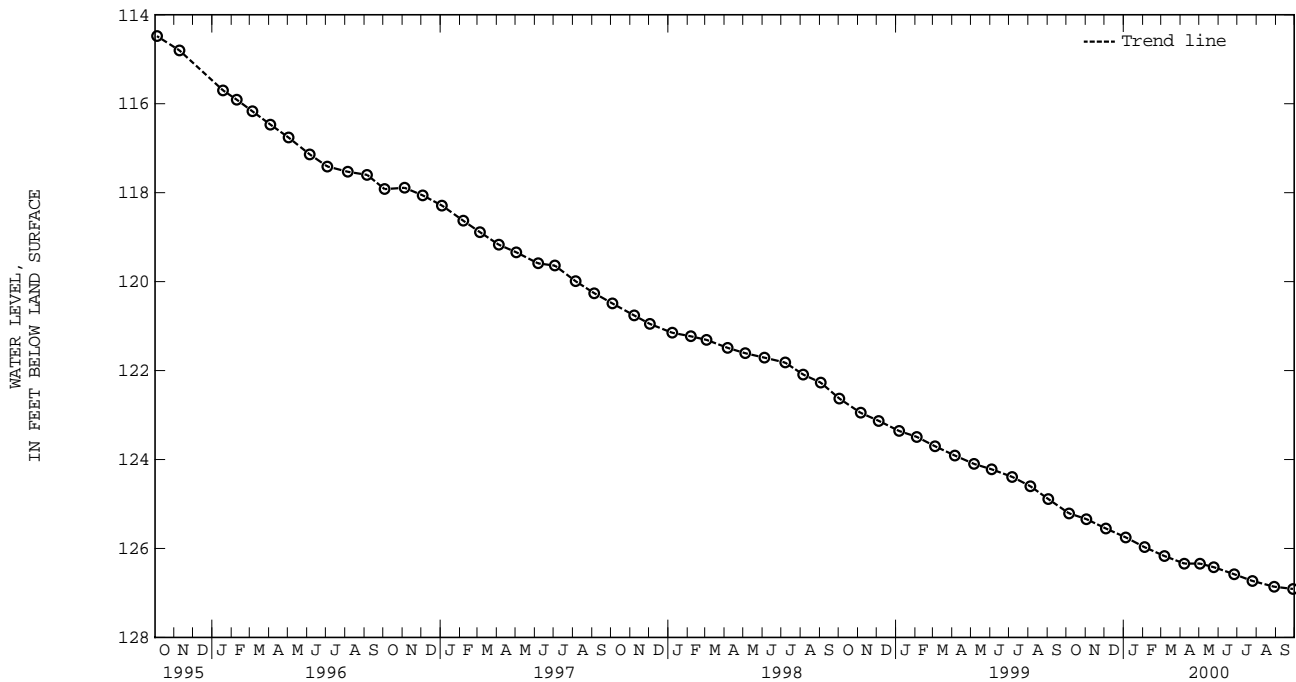
NEW CASTLE COUNTY--Continued

WELL NUMBER.--Eb23-25. SITE ID.--393316075421604.
 LOCATION.--Lat 39°33'16", long 75°42'16", Hydrologic Unit 02040205, at Lums Pond State Park.
 Owner: U.S. Geological Survey.
 AQUIFER.--Lower Potomac aquifer of the Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 604 ft; screen diameter 2 in., to 600 ft, screened from 600 to 604 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 60 ft above sea level, from topographic map.
 Measuring Point: Top of casing, 2.00 ft above land surface.
 REMARKS.--Delaware Water-Level Network observation well. Water-levels affected by regional ground-water withdrawal.
 PERIOD OF RECORD.--November 1980 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 105.07 ft below land surface, April 20, 1982; lowest measured, 126.91 ft below land surface, Sept. 28, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	125.21	FEB 03, 2000	125.97	MAY 24, 2000	126.42	SEP 28, 2000	126.91
NOV 02	125.34	MAR 06	126.17	JUN 26	126.58		
DEC 03	125.55	APR 07	126.34	JUL 25	126.73		
JAN 04, 2000	125.75	MAY 02	126.34	AUG 29	126.86		

WATER YEAR 2000 HIGHEST 125.21 OCT 05, 1999 LOWEST 126.91 SEP 28, 2000



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN DELAWARE--Continued

NEW CASTLE COUNTY--Continued

WELL NUMBER.--Hbl4-01. SITE ID.--391949075410701.

LOCATION.--Lat 39°19'49", long 75°41'07", Hydrologic Unit 02040205, at Prices Corners.

Owner: Delaware Department of Transportation.

AQUIFER.--Columbia aquifer of Pleistocene age. Aquifer code: 112CLMB

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 19 ft; casing diameter 1 in., to 16 ft; well point from 16 to 19 ft.

INSTRUMENTATION.--Monthly measurements with electric or chalked steel tape by Delaware Geological Survey personnel.

DATUM.--Elevation of land surface is 72 ft above sea level, from topographic map.

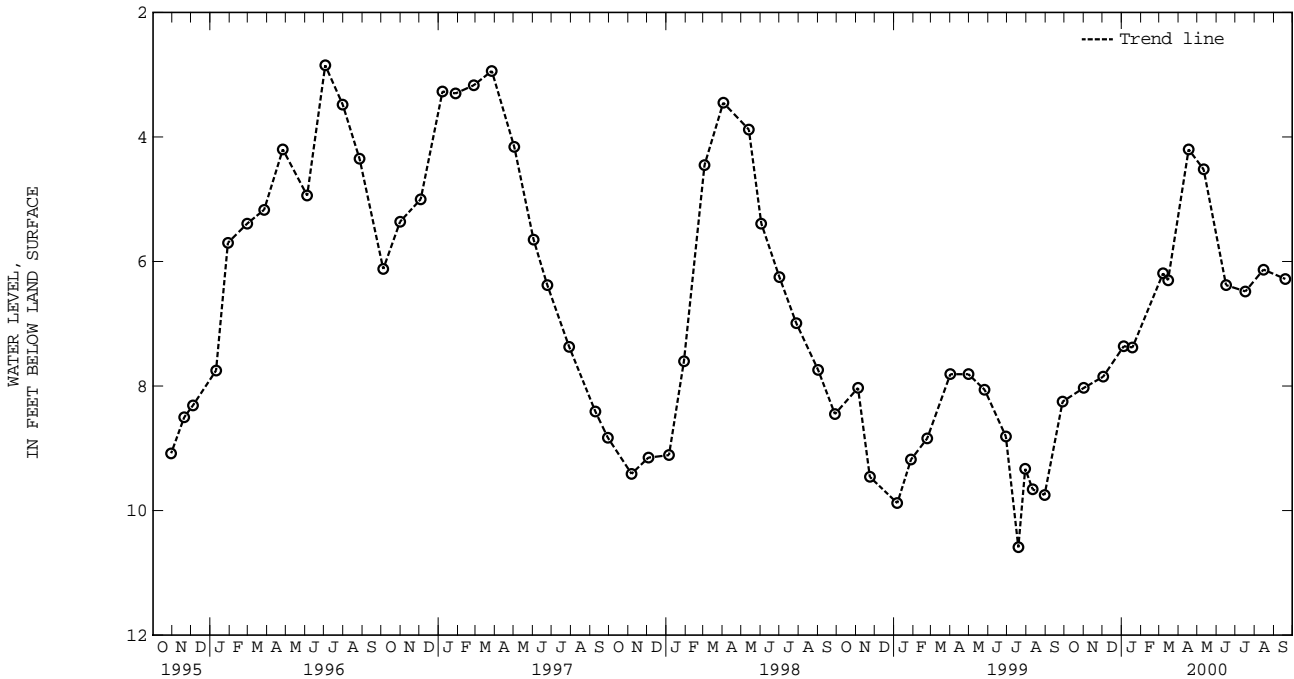
Measuring point: Top of casing at land surface.

PERIOD OF RECORD.--October 1957 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.49 ft below land surface, April 7, 1958; lowest measured, 11.95 ft below land surface, Aug. 31, 1966.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 01, 1999	8.03	JAN 18, 2000	7.38	APR 17, 2000	4.20	JUL 17, 2000	6.48
DEC 02	7.85	MAR 07	6.19	MAY 11	4.52	AUG 15	6.13
JAN 04, 2000	7.36	15	6.30	JUN 16	6.38	SEP 19	6.28
WATER YEAR 2000 HIGHEST		4.20	APR 17, 2000	LOWEST		8.03	NOV 01, 1999



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

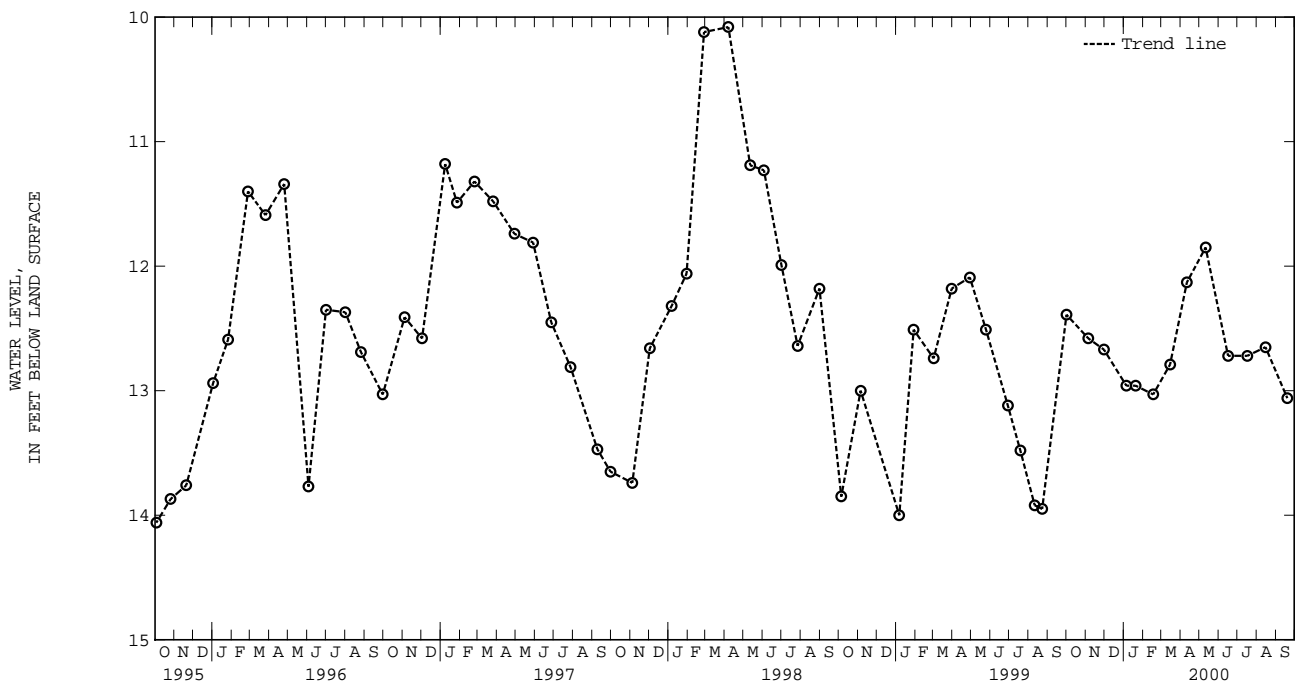
SUSSEX COUNTY

WELL NUMBER.--Nc45-01. SITE ID.--384639075353101. PERMIT NUMBER.--10226.
 LOCATION.--Lat 38°46'39", long 75°35'31", Hydrologic Unit 02060008, 2.0 mi south of Greenwood.
 Owner: P. H. Cannon.
 AQUIFER.--Columbia aquifer of Pleistocene age. Aquifer code: 112CLMB.
 WELL CHARACTERISTICS.--Driven, observation, water-table well, depth 15 ft; casing diameter 1 in., to 14 ft; screened from 14 to 15 ft.
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by Delaware Geological Survey personnel.
 DATUM.--Elevation of land surface is 43 ft above sea level, from topographic map.
 Measuring point: Top of casing, 1.0 ft above land surface.
 REMARKS.--Delaware Water-Level Network observation well.
 PERIOD OF RECORD.--January 1956 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.82 ft below land surface, April 9, 1958;
 lowest measured, 14.66 ft below land surface, Dec. 11, 1978.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01, 1999	12.39	JAN 20, 2000	12.96	MAY 11, 2000	11.85	SEP 19, 2000	13.06
NOV 05	12.58	FEB 17	13.03	JUN 16	12.72		
30	12.67	MAR 15	12.79	JUL 17	12.72		
JAN 05, 2000	12.96	APR 11	12.13	AUG 15	12.65		

WATER YEAR 2000 HIGHEST 11.85 MAY 11, 2000 LOWEST 13.06 SEP 19, 2000

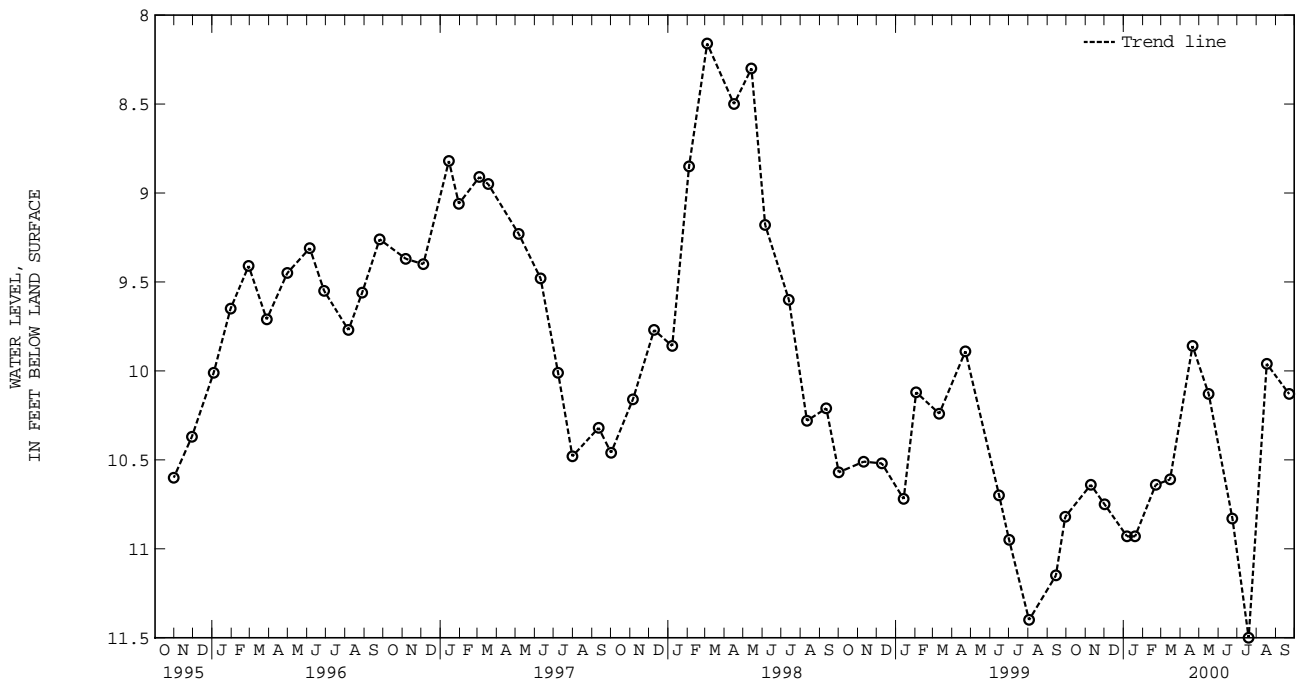


SUSSEX COUNTY--Continued

WELL NUMBER.--Ni52-11. SITE ID.--384558075083501. PERMIT NUMBER.--057363.
 LOCATION.--Lat 38°45'58", long 75°08'35", Hydrologic Unit 02040207, in Lewes Library Park, nr railroad tracks.
 Owner: Town of Lewes.
 AQUIFER.--Pocomoke aquifer of Upper Miocene age. Aquifer code: 122PCMK.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 155 ft; casing diameter 4 in., to 145 ft; screened from 145 to 155 ft.
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by Delaware Geological Survey personnel. Intermittent measurements from May 1985 to July 1987. Twice yearly measurements February 1988 to January 1992.
 DATUM.--Elevation of land surface is 16 ft above sea level.
 Measuring Point: Top of recorder platform, 0.5 ft above land surface.
 REMARKS.--Delaware Water-Level Network observation well.
 PERIOD OF RECORD.-- May 1985 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.16 ft below land surface, March 04, 1998;
 lowest measured, 11.50 ft below land surface, July. 19, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 09, 1999	10.64	JAN 19, 2000	10.93	APR 20, 2000	9.86	JUL 19, 2000	11.50
DEC 01	10.75	FEB 21	10.64	MAY 16	10.13	AUG 17	9.96
JAN 06, 2000	10.93	MAR 15	10.61	JUN 23	10.83	SEP 22	10.13
WATER YEAR 2000 HIGHEST		9.86	APR 20, 2000		LOWEST		11.50
							JUL 19, 2000



SUSSEX COUNTY--Continued

WELL NUMBER.--Ni52-12. SITE ID.--384558075083502. PERMIT NUMBER.--057365.

LOCATION.--Lat 38°45'58", long 75°08'35", Hydrologic Unit 02040207, in Lewes Library Park, nr railroad tracks.

Owner: Town of Lewes.

AQUIFER.--Columbia aquifer of Pleistocene age. Aquifer code: 112CLMB.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 80 ft; casing diameter 2 in., to 70 ft; screened from 70 to 80 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by Delaware Geological Survey personnel. Intermittent measurements from July 1986 to July 1987. Twice yearly measurements from February 1988 to January 1992. Measurements from 1986 to 1992 taken by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 16 ft above sea level.

Measuring Point: Top of 6 in. casing.

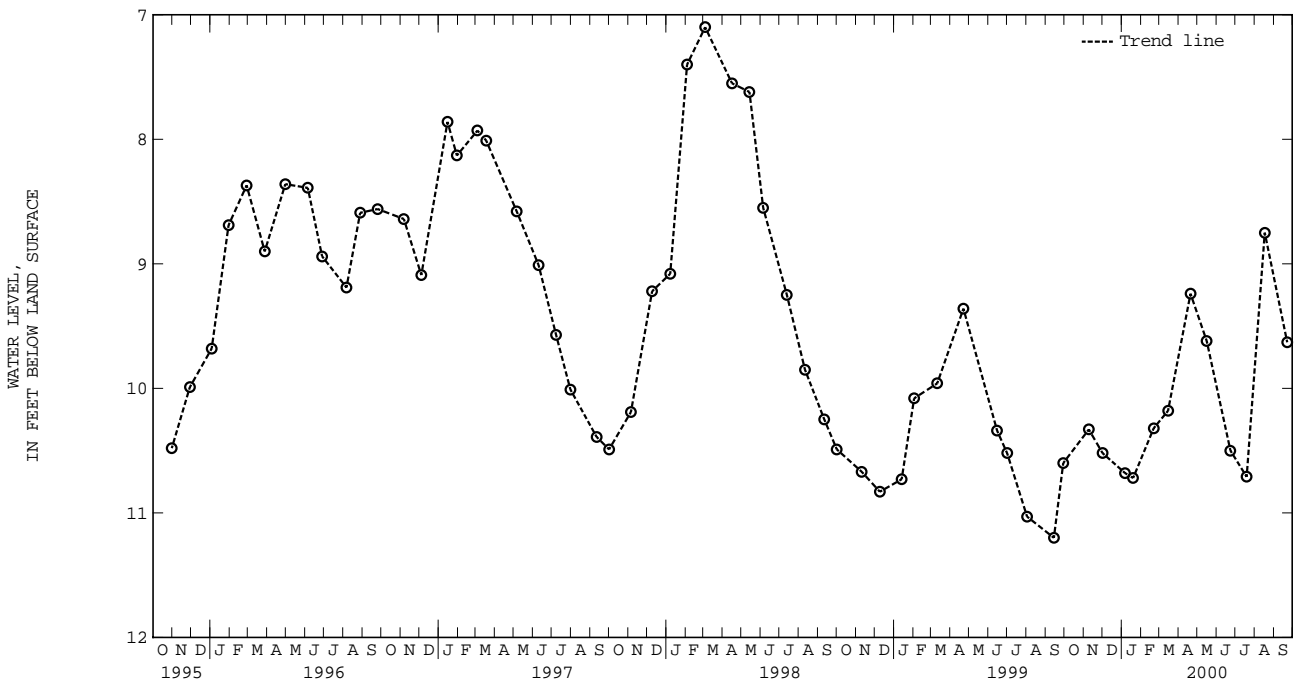
REMARKS.--Delaware Water-Level Network observation well.

PERIOD OF RECORD.--July 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.57 ft below land surface, March 31, 1994; lowest measured, 11.70 ft below land surface, Nov. 20, 1986.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	
NOV 09, 1999	10.33	JAN 19, 2000	10.72	APR 20, 2000	9.24	JUL 19, 2000	10.71	
DEC 01	10.52	FEB 21	10.32	MAY 16	9.62	AUG 17	8.75	
JAN 06, 2000	10.68	MAR 15	10.18	JUN 23	10.50	SEP 22	9.63	
WATER YEAR 2000 HIGHEST		8.75	AUG 17, 2000		LOWEST		10.72	JAN 19, 2000



SUSSEX COUNTY--Continued

WELL NUMBER.--Of12-13. SITE ID.--384438075234801. PERMIT NUMBER.--07473.

LOCATION.--Lat 38°44'38", long 75°23'48", Hydrologic Unit 02060008, near Redden State Forest.

Owner: Delaware Department of Transportation.

AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 17 ft; casing diameter 2 in., to 14 ft; screen diameter 2 in. from 14 to 17 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from Dec. 7, 1993, to current year.

DATUM.--Altitude of land surface is 46.36 ft above sea level.

Measuring Point: Top of recorder platform, 2.58 ft above land surface.

REMARKS.--Delaware Department of Transportation Wetlands Project observation well. Periods of equal maximum and minimum daily values may be questionable due to the float hanging up in small diameter wells or other well construction factors.

PERIOD OF RECORD.--September 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.06 ft below land surface, March 3, 1994;
lowest measured, 6.95 ft below land surface, Dec. 11, 1998.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	3.27	3.18	2.55	2.51	2.94	2.91	2.15	2.13	1.35	1.30	1.08	1.07
2	3.40	3.27	2.55	2.11	2.97	2.94	2.16	2.15	1.44	1.35	1.19	1.08
3	3.47	3.40	2.29	2.11	3.01	2.97	2.20	2.16	1.44	1.43	1.21	1.19
4	3.48	3.47	2.38	2.29	3.08	3.01	2.20	1.78	1.47	1.43	1.24	1.21
5	3.50	3.48	2.42	2.38	3.08	3.08	1.78	1.61	1.46	1.45	1.34	1.24
6	3.58	3.50	2.48	2.42	3.08	2.65	1.73	1.70	1.50	1.45	1.40	1.34
7	3.65	3.58	2.57	2.48	2.65	2.54	1.81	1.73	1.49	1.38	1.42	1.40
8	3.68	3.65	2.61	2.57	2.60	2.55	1.85	1.81	1.39	1.38	1.43	1.40
9	3.71	3.68	2.61	2.61	2.62	2.60	1.85	1.85	1.38	1.24	1.46	1.43
10	3.71	3.71	2.66	2.61	2.62	2.35	1.85	1.49	1.24	1.16	1.56	1.46
11	3.75	3.71	2.77	2.66	2.35	2.34	1.64	1.50	1.16	1.11	1.56	1.52
12	3.79	3.75	2.77	2.77	2.41	2.35	1.71	1.64	1.13	1.11	1.52	1.37
13	3.79	3.78	2.77	2.77	2.45	2.41	1.84	1.65	1.17	1.13	1.53	1.45
14	3.90	3.78	2.81	2.72	2.45	1.45	1.92	1.84	1.14	.93	1.58	1.53
15	3.93	3.90	2.82	2.81	1.45	1.45	1.95	1.92	1.09	1.00	1.60	1.58
16	3.94	3.93	2.91	2.82	1.56	1.45	1.96	1.86	1.16	1.09	1.63	1.47
17	3.94	3.25	2.97	2.91	1.63	1.56	2.04	1.96	1.23	1.16	1.47	.94
18	3.25	2.73	2.99	2.97	1.70	1.63	2.04	2.03	1.23	.91	1.06	1.01
19	2.75	2.73	3.01	2.99	1.76	1.70	2.05	2.04	.91	.87	1.10	1.06
20	2.75	1.82	3.03	3.01	1.76	1.65	2.09	1.98	.93	.89	1.16	1.10
21	1.84	1.80	3.07	3.03	1.72	1.65	2.17	2.09	.99	.93	1.16	.70
22	1.93	1.84	3.09	3.07	1.74	1.72	2.22	2.17	1.03	.99	.70	.70
23	1.90	1.81	3.10	3.09	1.77	1.74	2.22	2.22	1.06	1.03	.70	.63
24	2.05	1.90	3.11	3.10	1.85	1.77	2.24	2.18	1.09	1.06	.64	.63
25	2.14	2.05	3.12	3.11	1.89	1.85	2.18	2.03	1.16	1.09	.64	.63
26	2.21	2.14	3.12	3.07	1.89	1.79	2.26	2.18	1.16	1.16	.64	.63
27	2.32	1.97	3.07	2.76	1.92	1.85	2.33	2.26	1.16	1.15	.64	.59
28	2.36	2.32	2.80	2.76	1.94	1.92	2.35	2.33	1.15	.96	.59	.42
29	2.43	2.36	2.85	2.80	2.01	1.93	2.37	2.35	1.07	.99	.55	.47
30	2.49	2.43	2.91	2.85	2.05	2.01	2.37	1.37	---	---	.62	.55
31	2.51	2.49	---	---	2.13	2.05	1.37	1.28	---	---	.66	.62
MONTH	3.94	1.80	3.12	2.11	3.08	1.45	2.37	1.28	1.50	.87	1.63	.42

GROUND-WATER LEVELS IN DELAWARE--Continued

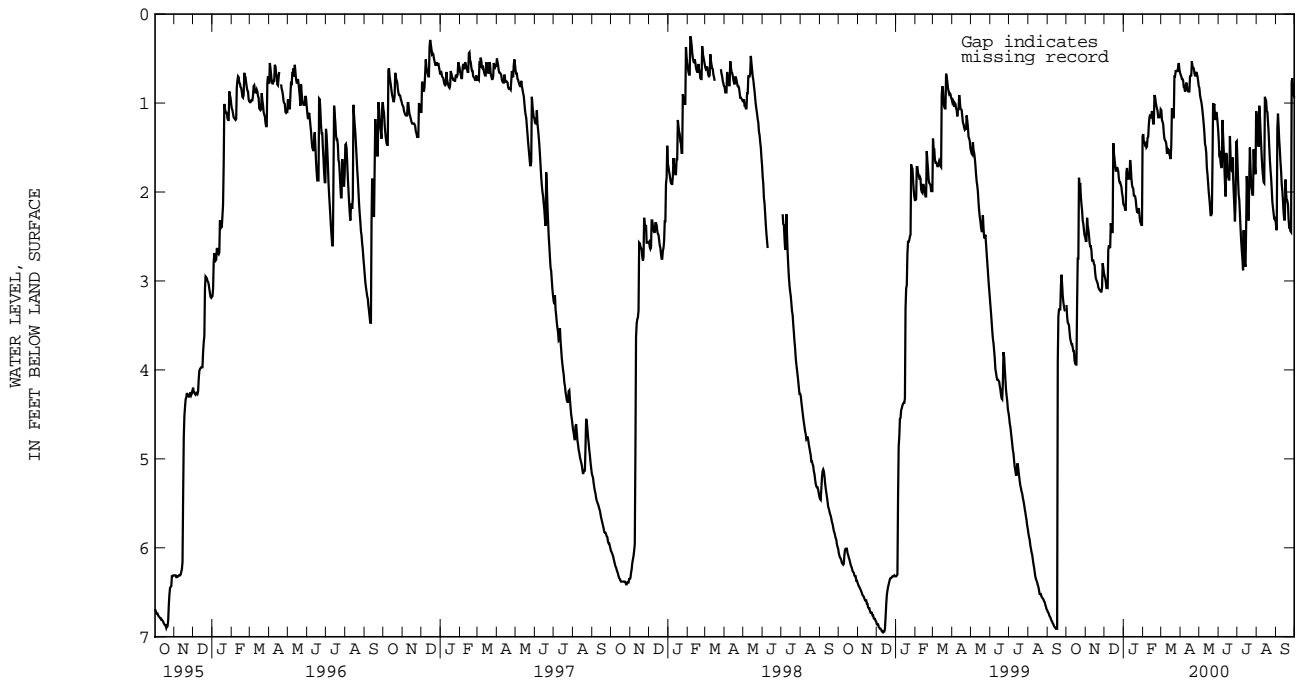
SUSSEX COUNTY--Continued

Of12-13--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	.68	.66	.83	.81	1.41	1.29	1.64	1.43	1.14	.96	2.39	2.28
2	.70	.68	.91	.83	1.58	1.41	1.86	1.64	1.32	1.14	2.43	1.28
3	.73	.70	.95	.90	1.57	1.38	2.03	1.86	1.44	1.32	1.29	1.07
4	.73	.71	.98	.95	1.67	1.57	2.09	2.02	1.49	.86	1.12	1.00
5	.75	.73	1.03	.98	1.72	1.67	2.25	2.09	1.03	.86	1.26	1.11
6	.82	.75	1.09	1.03	1.72	.99	2.41	2.25	1.13	1.03	1.42	1.26
7	.83	.82	1.16	1.09	1.19	1.02	2.55	2.41	1.31	1.13	1.53	1.42
8	.87	.82	1.24	1.16	1.36	1.19	2.66	2.55	1.46	1.30	1.66	1.53
9	.82	.64	1.33	1.24	1.52	1.36	2.75	2.66	1.61	1.46	1.77	1.66
10	.77	.68	1.46	1.33	1.70	1.52	2.88	2.39	1.74	1.61	1.91	1.77
11	.80	.77	1.49	1.40	1.89	1.70	2.43	2.36	1.82	1.74	1.99	1.91
12	.86	.80	1.56	1.47	2.05	1.54	2.67	2.43	1.89	1.82	2.10	1.99
13	.87	.86	1.73	1.56	1.56	1.49	2.81	2.67	1.90	.93	2.23	2.10
14	.87	.87	1.80	1.70	1.61	1.56	2.84	2.37	.93	.77	2.31	2.23
15	.87	.70	1.90	1.80	1.81	1.61	2.37	1.69	.96	.82	2.31	1.49
16	.70	.69	2.00	1.90	1.80	1.42	1.82	1.69	.97	.82	1.86	1.63
17	.69	.69	2.07	2.00	1.86	1.63	2.03	1.82	1.09	.97	2.01	1.86
18	.69	.48	2.16	2.07	1.86	1.30	2.26	2.03	1.10	1.05	2.10	2.01
19	.53	.49	2.26	2.16	1.37	1.31	2.32	1.83	1.21	1.07	2.10	1.92
20	.59	.53	2.26	2.24	1.60	1.37	1.83	1.17	1.33	1.21	2.14	1.96
21	.60	.56	2.24	1.69	1.75	1.60	1.50	1.27	1.49	1.33	2.30	2.13
22	.61	.54	1.69	.91	1.76	1.21	1.72	1.50	1.64	1.49	2.40	2.30
23	.66	.61	1.00	.92	1.61	1.32	1.92	1.72	1.75	1.64	2.40	2.37
24	.69	.66	1.04	.93	1.81	1.61	1.97	1.92	1.84	1.75	2.44	2.36
25	.69	.59	1.01	.90	2.00	1.81	2.03	1.97	1.97	1.84	2.45	.76
26	.65	.59	1.17	1.01	2.15	2.00	2.03	1.45	2.11	1.97	.76	.52
27	.67	.65	1.19	1.09	2.33	2.11	1.52	1.44	2.18	2.11	.72	.61
28	.70	.67	1.10	1.05	2.11	1.44	1.70	1.52	2.24	2.18	.82	.72
29	.75	.70	1.13	1.01	1.44	1.20	1.72	1.61	2.30	2.24	.89	.82
30	.81	.75	1.20	1.13	1.43	1.20	1.80	1.03	2.31	2.26	.94	.89
31	---	---	1.29	1.20	---	---	1.09	.96	2.28	2.22	---	---
MONTH	.87	.48	2.26	.81	2.33	.99	2.88	.96	2.31	.77	2.45	.52
YEAR	3.94	.42										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

SUSSEX COUNTY--Continued

WELL NUMBER.--Of13-03. SITE ID.--384401075224901. PERMIT NUMBER.--95801.

LOCATION.--Lat 38°44'01", long 75°22'49", Hydrologic Unit 02060008, near Redden State Forest.

Owner: Delaware Department of Transportation.

AQUIFER.--Pleistocene-Pliocene Series. Aquifer code:112PCPC.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 20 ft; casing diameter 2 in., to 17 ft; screen diameter 2 in. from 17 to 20 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from Dec. 7, 1993 to current year.

DATUM.--Altitude of land surface is 48.37 ft above sea level.

Measuring Point: Top of recorder platform, 3.28 ft above land surface.

REMARKS.--Delaware Department of Transportation Wetlands Project observation well. Missing data due to recorder malfunction.

Periods of equal maximum and minimum daily values may be questionable due to the float hanging up in small diameter wells or other well construction factors.

PERIOD OF RECORD.--September 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.06 ft above land surface, March 3, 1994;

lowest measured, 8.90 ft below land surface, Sept. 15, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.61	5.56	4.80	4.76	---	---	---	---	---	---	3.32	3.29
2	5.64	5.61	4.80	4.68	---	---	---	---	4.19	4.19	3.36	3.29
3	5.65	5.64	4.78	4.69	---	---	---	---	---	---	3.39	3.36
4	5.65	5.65	4.82	4.78	---	---	---	---	4.18	4.16	3.42	3.39
5	5.71	5.65	4.83	4.82	---	---	---	---	4.18	4.18	3.51	3.42
6	5.77	5.71	4.83	4.83	---	---	---	---	4.19	4.18	3.58	3.51
7	5.82	5.77	4.87	4.83	---	---	---	---	4.18	4.13	3.60	3.58
8	5.84	5.82	4.90	4.87	---	---	---	---	4.13	4.10	3.60	3.60
9	5.86	5.84	4.91	4.90	---	---	---	---	4.10	4.03	3.62	3.60
10	5.86	5.85	4.92	4.91	---	---	---	---	4.03	3.97	3.73	3.62
11	5.92	5.85	5.03	4.92	---	---	---	---	3.97	3.95	3.73	3.69
12	5.94	5.92	5.03	5.03	---	---	---	---	3.95	3.88	3.75	3.67
13	5.94	5.91	5.03	5.03	---	---	---	---	3.88	3.79	3.80	3.75
14	6.04	5.91	5.03	4.98	---	---	---	---	3.79	3.69	3.80	3.79
15	6.06	6.04	5.01	5.01	---	---	---	---	3.71	3.70	3.83	3.80
16	6.06	6.06	5.13	5.01	---	---	---	---	3.71	3.64	3.84	3.82
17	6.06	5.93	5.21	5.13	---	---	---	---	3.76	3.69	3.82	3.69
18	5.93	5.59	5.23	5.21	---	---	---	---	3.76	3.51	3.70	3.69
19	5.59	5.35	5.24	5.23	---	---	---	---	3.51	3.41	---	---
20	5.35	5.09	5.24	5.24	---	---	---	---	3.41	3.38	---	---
21	5.09	4.75	5.28	5.24	---	---	---	---	3.38	3.38	---	---
22	4.75	4.60	5.30	5.28	---	---	---	---	3.39	3.38	---	---
23	4.61	4.60	5.31	5.30	---	---	---	---	3.39	3.38	---	---
24	4.61	4.61	5.33	5.31	---	---	---	---	3.38	3.38	---	---
25	4.63	4.61	5.33	5.33	---	---	---	---	3.42	3.38	---	---
26	4.63	4.60	5.33	5.33	---	---	---	---	3.43	3.42	1.61	1.49
27	4.68	4.62	5.33	5.33	---	---	---	---	3.43	3.41	1.63	1.40
28	4.68	4.68	5.33	5.33	---	---	---	---	3.41	3.32	1.43	1.32
29	4.74	4.68	---	---	---	---	---	---	3.32	3.32	1.49	1.32
30	4.76	4.74	---	---	---	---	---	---	---	---	1.61	1.49
31	4.76	4.76	---	---	---	---	---	---	---	---	1.73	1.61
MONTH	6.06	4.60	5.33	4.68	---	---	---	---	4.19	3.32	3.84	1.32

GROUND-WATER LEVELS IN DELAWARE--Continued

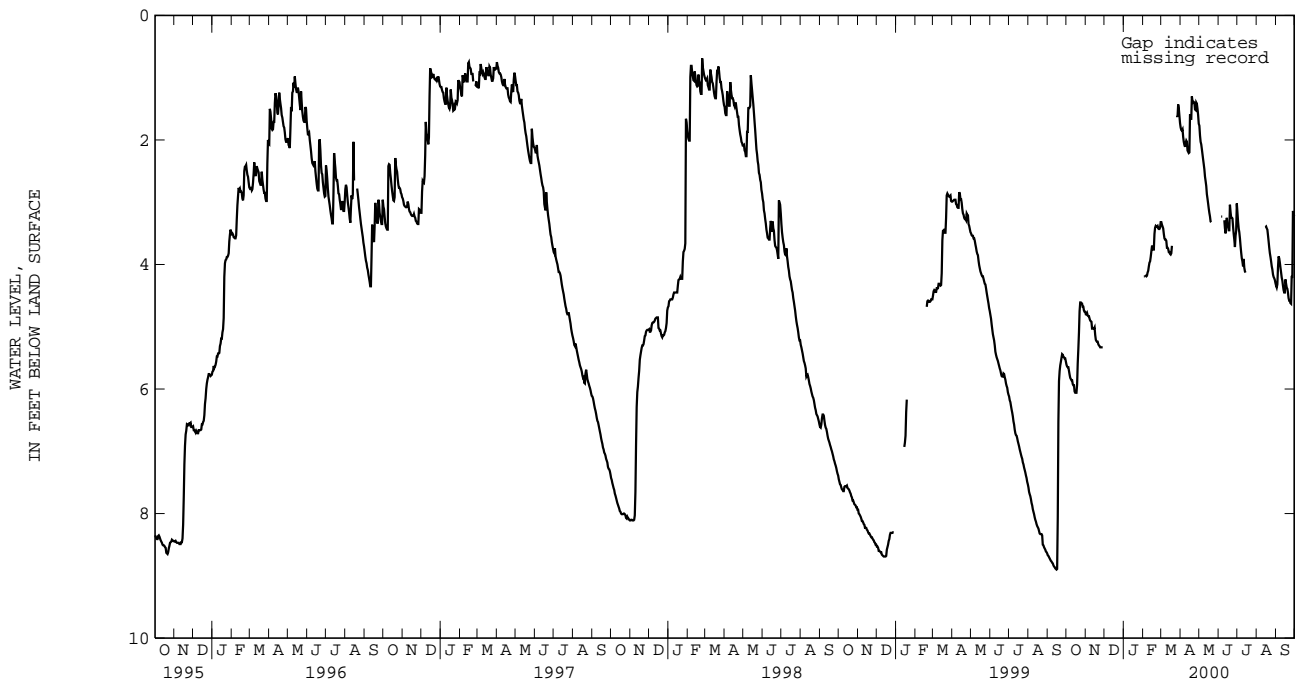
SUSSEX COUNTY--Continued

Of13-03--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	1.80	1.73	1.77	1.74	---	---	3.16	3.02	---	---	4.34	4.30
2	1.84	1.80	1.93	1.77	---	---	3.31	3.16	---	---	4.37	4.32
3	1.85	1.83	2.03	1.93	---	---	3.42	3.31	---	---	4.32	4.05
4	1.83	1.77	2.07	2.03	---	---	3.48	3.42	---	---	4.05	3.87
5	1.95	1.83	2.15	2.07	3.23	3.18	3.58	3.48	---	---	3.87	3.87
6	2.03	1.92	2.23	2.15	---	---	3.70	3.58	---	---	3.90	3.87
7	2.08	2.03	2.31	2.23	---	---	3.81	3.70	---	---	3.97	3.90
8	2.11	2.05	2.39	2.31	---	---	3.90	3.81	---	---	4.05	3.97
9	2.05	1.72	2.47	2.39	---	---	3.95	3.90	---	---	4.13	4.05
10	2.01	1.82	2.59	2.47	3.29	3.19	4.03	3.91	---	---	4.21	4.13
11	2.03	2.01	2.66	2.59	3.42	3.29	3.91	3.89	---	---	4.26	4.21
12	2.17	2.02	2.74	2.65	3.50	3.38	4.05	3.90	---	---	4.34	4.26
13	2.19	2.17	2.87	2.74	3.38	3.25	4.11	4.05	---	---	4.41	4.34
14	2.21	2.19	2.94	2.85	3.25	3.24	4.13	4.11	---	---	4.45	4.41
15	2.20	1.54	3.02	2.94	3.37	3.24	---	---	3.40	3.36	4.45	4.19
16	1.59	1.50	3.10	3.02	3.37	3.24	---	---	3.39	3.39	4.24	4.19
17	1.66	1.59	3.17	3.10	3.45	3.32	---	---	3.42	3.39	4.31	4.24
18	1.66	1.25	3.23	3.17	3.45	3.04	---	---	3.44	3.42	4.37	4.31
19	1.30	1.24	3.31	3.23	3.04	3.03	---	---	3.53	3.44	4.39	4.36
20	1.38	1.30	3.32	3.31	3.16	3.03	---	---	3.63	3.53	4.45	4.39
21	1.40	1.38	---	---	3.25	3.16	---	---	3.73	3.63	4.54	4.45
22	1.39	1.39	---	---	3.25	3.23	---	---	3.82	3.73	4.58	4.54
23	1.40	1.39	---	---	3.26	3.23	---	---	3.88	3.82	4.58	4.58
24	1.51	1.40	---	---	3.39	3.26	---	---	3.95	3.88	4.62	4.58
25	1.52	1.40	---	---	3.51	3.39	---	---	4.03	3.95	4.63	4.20
26	1.40	1.40	---	---	3.60	3.51	---	---	4.08	4.03	4.20	4.20
27	1.42	1.40	---	---	3.72	3.54	---	---	4.16	4.08	4.20	3.09
28	1.50	1.42	---	---	3.54	3.46	---	---	4.20	4.16	3.14	3.08
29	1.60	1.50	---	---	3.46	2.92	---	---	4.22	4.20	3.19	3.14
30	1.74	1.60	---	---	3.02	2.90	---	---	4.25	4.22	3.22	3.19
31	---	---	---	---	---	---	---	---	4.30	4.25	---	---
MONTH	2.21	1.24	3.32	1.74	3.72	2.90	4.13	3.02	4.30	3.36	4.63	3.08
YEAR	6.06	1.24										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

SUSSEX COUNTY---Continued

WELL NUMBER.--Of13-08. SITE ID.--384406075224601. PERMIT NUMBER.--97463.

LOCATION.--Lat 38°44'06", long 75°22'46", Hydrologic Unit 02040207, near Redden State Forest.

Owner: Delaware Department of Transportation.

AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 16 ft; casing diameter 2 in; to 13 ft; screen diameter 2 in. from 13 to 16 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with water-level recorder--60-minute recorder interval from Dec. 7, 1993 to current year.

DATUM.--Altitude of land surface is 48.91 ft above sea level.

Measuring Point: Top of recorder platform, 2.63 ft above land surface.

REMARKS.--Delaware Department of Transportation Wetlands Project observation well. Missing data due to recorder malfunction.

Periods of equal maximum and minimum daily values may be questionable due to the float hanging up in small diameter wells or other well construction factors.

PERIOD OF RECORD.--September 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.40 ft below land surface, March 3, 1994;

lowest measured, 9.47 ft below land surface, Sept. 14-16, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.95	8.93	5.45	5.42	6.03	6.03	5.31	5.29	5.07	5.00	4.05	4.01
2	8.95	8.89	5.45	5.38	6.04	6.03	5.31	5.31	5.00	4.97	4.05	4.00
3	8.89	8.81	5.43	5.38	6.06	6.04	5.33	5.31	4.97	4.91	4.07	4.05
4	8.81	8.70	5.47	5.43	6.09	6.06	5.33	5.32	4.91	4.91	4.10	4.07
5	8.70	8.64	5.48	5.47	6.09	6.09	5.35	5.33	4.91	4.91	4.19	4.10
6	8.64	8.57	5.48	5.48	6.09	6.09	5.34	5.25	4.91	4.90	4.25	4.19
7	8.58	8.51	5.52	5.48	6.10	6.09	5.25	5.20	4.90	4.87	4.27	4.25
8	8.53	8.42	5.55	5.52	6.10	6.04	5.21	5.20	4.87	4.84	4.29	4.27
9	8.42	8.35	5.56	5.55	6.04	5.97	5.20	5.18	4.84	4.79	4.29	4.28
10	8.35	8.24	5.57	5.56	5.97	5.89	5.18	5.07	4.79	4.74	4.39	4.29
11	8.24	8.21	5.67	5.57	5.93	5.91	5.13	5.10	4.74	4.70	4.39	4.38
12	8.21	8.12	5.67	5.67	5.91	5.87	5.13	5.12	4.70	4.62	4.43	4.38
13	8.12	8.01	5.67	5.67	5.87	5.83	5.15	5.05	4.62	4.54	4.52	4.43
14	8.02	7.99	5.67	5.65	5.83	5.65	5.17	5.15	4.54	4.45	4.53	4.52
15	8.00	7.90	5.67	5.67	5.65	5.38	5.18	5.17	4.45	4.41	4.56	4.53
16	7.90	7.81	5.74	5.67	5.38	5.31	5.18	5.10	4.41	4.35	4.57	4.56
17	7.81	7.63	5.82	5.74	5.31	5.26	5.18	5.15	4.43	4.39	---	---
18	7.63	7.21	5.85	5.82	5.26	5.25	5.18	5.17	4.43	4.27	---	---
19	7.21	6.87	5.86	5.85	5.25	5.23	5.18	5.17	4.27	4.16	---	---
20	6.87	6.56	5.87	5.86	5.23	5.17	5.18	5.13	4.16	4.11	---	---
21	6.56	6.11	5.89	5.87	5.18	5.18	5.25	5.18	4.11	4.11	---	---
22	6.11	5.83	5.92	5.89	5.18	5.18	5.31	5.25	4.11	4.11	---	---
23	5.83	5.72	5.95	5.92	5.18	5.16	5.31	5.31	4.11	4.09	---	---
24	5.72	5.61	5.96	5.95	5.17	5.16	5.33	5.31	4.09	4.08	---	---
25	5.61	5.50	5.97	5.96	5.18	5.17	5.31	5.22	4.11	4.08	---	---
26	5.50	5.37	5.97	5.97	5.18	5.12	5.37	5.31	4.12	4.11	---	---
27	5.37	5.32	5.99	5.97	5.16	5.14	5.45	5.37	4.12	4.10	---	---
28	5.37	5.35	5.99	5.99	5.16	5.16	5.47	5.45	4.10	4.06	---	---
29	5.38	5.37	6.01	5.99	5.19	5.16	5.48	5.47	4.06	4.05	---	---
30	5.42	5.38	6.03	6.01	5.23	5.19	5.48	5.33	---	---	---	---
31	5.42	5.42	---	---	5.29	5.23	5.33	5.07	---	---	---	---
MONTH	8.95	5.32	6.03	5.38	6.10	5.12	5.48	5.05	5.07	4.05	4.57	4.00

GROUND-WATER LEVELS IN DELAWARE--Continued

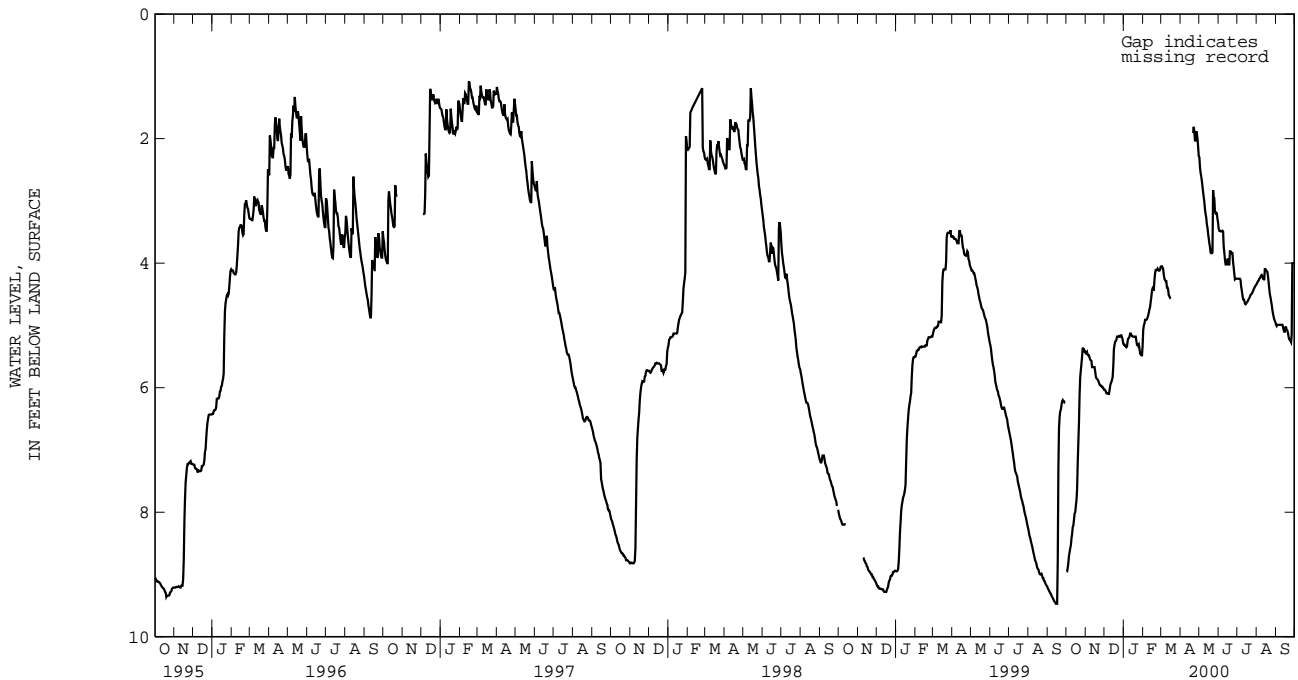
SUSSEX COUNTY---Continued

Of13-08--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	2.30	2.28	3.45	3.35	4.25	4.25	4.33	4.31	4.99	4.95
2	---	---	2.47	2.30	3.48	3.45	4.25	4.25	4.31	4.29	5.01	4.99
3	---	---	2.55	2.47	3.48	3.48	4.25	4.25	4.29	4.27	4.99	4.99
4	---	---	2.61	2.55	3.49	3.48	4.25	4.25	4.28	4.25	4.99	4.99
5	---	---	2.68	2.61	3.49	3.49	4.25	4.25	4.25	4.24	4.99	4.99
6	---	---	2.77	2.68	3.49	3.48	4.27	4.25	4.24	4.22	4.99	4.99
7	---	---	2.86	2.77	3.48	3.48	4.38	4.27	4.22	4.20	4.99	4.99
8	---	---	2.94	2.86	3.49	3.48	4.44	4.38	4.20	4.19	4.99	4.99
9	---	---	3.02	2.94	3.73	3.49	4.51	4.44	4.19	4.17	4.99	4.99
10	---	---	3.14	3.02	3.83	3.73	4.58	4.51	4.21	4.18	4.99	4.99
11	---	---	3.21	3.13	3.94	3.83	4.58	4.48	4.25	4.21	4.99	4.99
12	---	---	3.27	3.20	4.02	3.94	4.60	4.49	4.26	4.24	5.02	4.99
13	---	---	3.38	3.27	4.02	4.02	4.65	4.60	4.26	4.08	5.07	5.02
14	---	---	3.43	3.37	4.02	3.82	4.66	4.64	4.08	4.06	5.10	5.07
15	---	---	3.53	3.43	3.94	3.82	4.65	4.63	4.11	4.05	5.10	5.03
16	---	---	3.60	3.53	3.94	3.83	4.63	4.62	4.11	4.06	5.03	5.03
17	---	---	3.68	3.60	4.02	3.89	4.62	4.60	4.13	4.07	5.03	5.03
18	---	---	3.74	3.67	4.02	3.81	4.60	4.58	4.14	4.13	5.07	5.03
19	---	---	3.83	3.74	3.81	3.81	4.58	4.56	4.21	4.14	5.08	5.05
20	---	---	3.84	3.82	3.81	3.81	4.56	4.54	4.31	4.21	5.12	5.08
21	1.91	1.81	3.84	3.83	3.82	3.81	4.54	4.51	4.41	4.31	5.18	5.12
22	1.81	1.81	3.83	2.83	3.84	3.80	4.51	4.50	4.50	4.41	5.22	5.18
23	1.91	1.81	2.83	2.80	3.84	3.80	4.50	4.48	4.55	4.50	5.22	5.22
24	2.03	1.91	2.99	2.81	3.98	3.84	4.49	4.47	4.61	4.55	5.25	5.22
25	2.03	1.81	2.98	2.89	4.07	3.98	4.47	4.45	4.67	4.61	5.27	5.15
26	1.88	1.81	3.18	2.98	4.17	4.07	4.45	4.42	4.75	4.67	5.15	4.00
27	1.92	1.88	3.20	3.18	4.26	4.17	4.42	4.40	4.81	4.75	4.00	4.00
28	2.00	1.92	3.19	3.19	4.25	4.25	4.40	4.38	4.86	4.81	4.00	4.00
29	2.13	2.00	3.20	3.19	4.25	4.25	4.38	4.36	4.90	4.86	4.00	4.00
30	2.28	2.13	3.29	3.20	4.25	4.25	4.36	4.35	4.93	4.90	4.00	4.00
31	---	---	3.35	3.29	---	---	4.35	4.33	4.95	4.93	---	---
MONTH	2.28	1.81	3.84	2.28	4.26	3.35	4.66	4.25	4.95	4.05	5.27	4.00
YEAR	8.95	1.81										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

SUSSEX COUNTY---Continued

WELL NUMBER.--Of22-04. SITE ID.--384343075230401. PERMIT NUMBER.--95800.

LOCATION.--Lat 38°43'43", long 75°23'04", Hydrologic Unit 02040207, near Redden State Forest.

Owner: Delaware Department of Transportation.

AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 15 ft; casing diameter 2 in., to 12 ft; screen diameter 2 in. from 12 to 15 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from Dec. 7, 1993 to current year.

DATUM.--Altitude of land surface is 47.62 ft above sea level.

Measuring Point: Top of recorder platform, 2.68 ft above land surface.

REMARKS.--Delaware Department of Transportation wetlands Project observation well. Missing data due to recorder malfunction.

Periods of equal maximum and minimum daily values may be questionable due to the float hanging up in small diameter wells or other well construction factors.

PERIOD OF RECORD.--September 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.75 ft above land surface, March 3, 1994;

lowest measured, 7.31 ft below land surface, Dec. 11-13, 1998.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
(READINGS ABOVE LAND SURFACE INDICATED BY "+")

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	4.33	4.33	3.41	3.39	3.75	3.73	3.12	3.09	2.47	2.46	1.59	1.56
2	4.34	4.33	3.41	3.29	3.77	3.75	3.13	3.12	2.51	2.47	1.68	1.56
3	4.37	4.34	3.29	3.27	3.80	3.77	3.13	3.13	2.51	2.49	1.73	1.68
4	4.37	4.37	3.30	3.28	3.84	3.80	3.13	3.04	2.53	2.49	1.79	1.73
5	4.40	4.37	3.32	3.30	3.84	3.84	3.04	2.84	2.49	2.48	1.87	1.79
6	4.44	4.40	3.34	3.32	3.84	3.80	2.84	2.83	2.52	2.48	1.95	1.87
7	4.50	4.44	3.39	3.34	3.80	3.65	2.84	2.81	2.49	2.41	2.00	1.95
8	4.51	4.50	3.43	3.39	3.65	3.62	2.86	2.84	2.42	2.39	2.01	1.98
9	4.53	4.51	3.44	3.43	3.62	3.60	2.86	2.86	2.39	2.28	2.03	2.01
10	4.53	4.53	3.46	3.44	3.60	3.53	2.86	2.69	2.28	2.16	2.10	2.03
11	4.58	4.53	3.54	3.46	3.53	3.46	2.69	2.65	2.16	2.08	2.11	2.09
12	4.60	4.58	3.54	3.54	3.46	3.45	2.75	2.69	2.08	2.05	2.09	1.95
13	4.60	4.60	3.55	3.54	3.45	3.45	2.80	2.67	---	---	2.17	2.08
14	4.67	4.60	3.56	3.52	3.45	2.92	2.86	2.80	---	---	2.20	2.17
15	4.69	4.67	3.57	3.56	2.92	2.81	2.89	2.86	---	---	2.22	2.20
16	4.69	4.69	3.63	3.57	2.82	2.81	2.89	2.81	---	---	2.23	2.06
17	4.69	4.57	3.69	3.63	2.83	2.82	2.92	2.87	---	---	2.06	1.47
18	4.57	3.96	3.72	3.69	2.87	2.83	2.92	2.92	---	---	1.64	1.55
19	3.96	3.85	3.73	3.72	2.88	2.87	2.92	2.92	---	---	1.67	1.64
20	3.85	3.45	3.74	3.73	2.88	2.84	2.94	2.90	---	---	1.72	1.67
21	3.45	3.23	3.77	3.74	2.85	2.84	3.03	2.94	---	---	1.72	.12
22	3.23	3.17	3.79	3.77	2.86	2.85	3.07	3.03	---	---	.12	+01
23	3.18	3.17	3.81	3.79	2.86	2.83	3.07	3.07	1.74	1.73	+01	+01
24	3.20	3.18	3.82	3.81	2.89	2.84	3.10	3.07	1.74	1.73	+01	+02
25	3.23	3.20	3.84	3.82	2.90	2.89	3.09	2.97	1.80	1.74	.00	+02
26	3.23	3.23	3.84	3.82	2.90	2.82	3.14	3.09	1.80	1.79	+01	+02
27	3.29	3.23	3.82	3.72	2.92	2.88	3.19	3.14	1.80	1.76	.00	+02
28	3.32	3.29	3.72	3.71	2.94	2.92	3.21	3.19	1.76	1.49	+02	+02
29	3.35	3.32	3.71	3.70	3.00	2.94	3.22	3.21	1.57	1.51	+02	+03
30	3.38	3.35	3.73	3.70	3.03	3.00	3.22	2.56	---	---	+02	+03
31	3.39	3.38	---	---	3.09	3.03	2.56	2.46	---	---	+01	+02
MONTH	4.69	3.17	3.84	3.27	3.84	2.81	3.22	2.46	2.53	1.51	2.23	+03

GROUND-WATER LEVELS IN DELAWARE--Continued

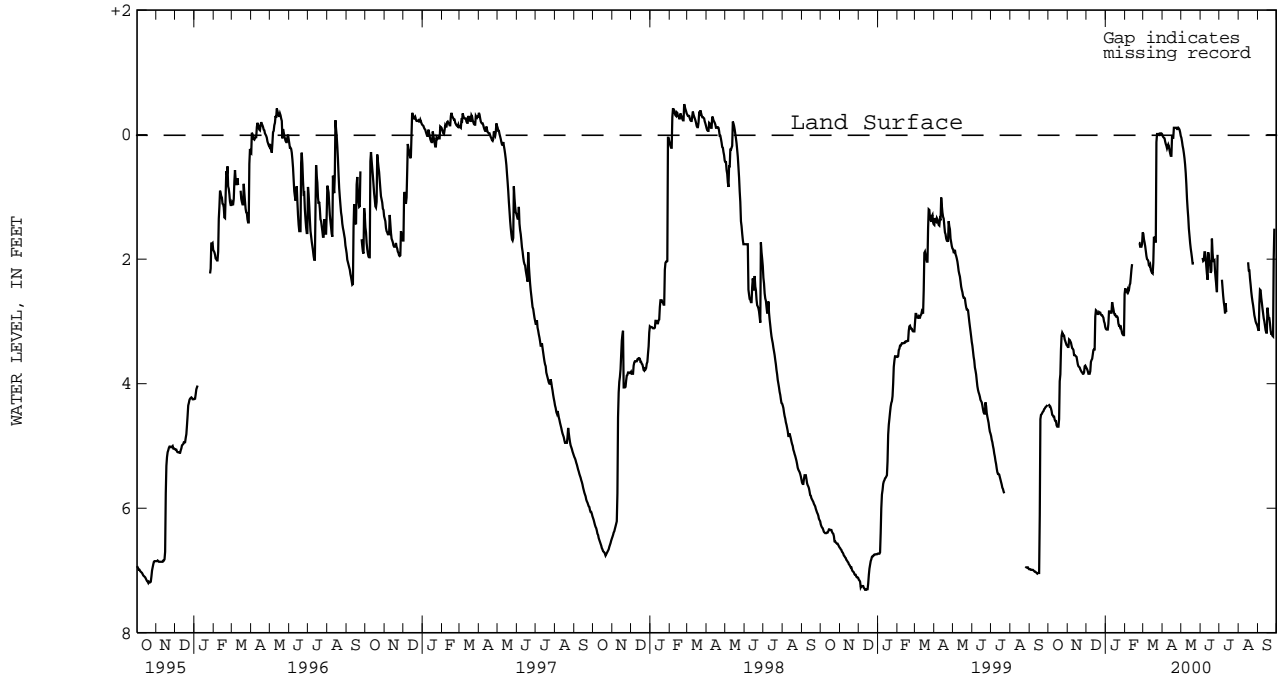
SUSSEX COUNTY---Continued

Of22-04--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
(READINGS ABOVE LANDSURFACE INDICATED BY "+")

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	.02	+.01	.05	.02	---	---	---	---	---	---	3.12	3.08
2	.04	.02	.11	.05	---	---	---	---	---	---	3.15	2.72
3	.05	.04	.18	.11	---	---	---	---	---	---	2.72	2.49
4	.06	.04	.23	.18	1.98	1.90	---	---	---	---	2.49	2.35
5	.11	.06	.30	.23	2.03	1.98	2.33	2.22	---	---	2.50	2.39
6	.15	.11	.38	.30	2.02	1.89	2.46	2.33	---	---	2.62	2.50
7	.18	.15	.48	.38	1.89	1.89	2.59	2.46	---	---	2.70	2.62
8	.22	.18	.62	.48	1.89	1.72	2.69	2.59	---	---	2.79	2.70
9	.19	.07	.80	.62	1.97	1.78	2.76	2.69	---	---	2.87	2.79
10	.16	.08	1.03	.80	2.12	1.97	2.87	2.64	---	---	2.95	2.87
11	.19	.16	1.19	.97	2.24	2.12	2.71	2.64	---	---	3.00	2.95
12	.25	.19	1.33	1.19	2.33	1.82	2.85	2.71	---	---	3.07	3.00
13	.30	.25	1.51	1.33	1.89	1.81	---	---	---	---	3.14	3.07
14	.34	.30	1.62	1.50	1.95	1.89	---	---	---	---	3.18	3.14
15	.34	.04	1.74	1.62	2.10	1.92	---	---	---	---	3.18	2.59
16	.04	.03	1.83	1.74	2.08	1.91	---	---	2.05	1.99	2.78	2.63
17	.05	.03	1.90	1.83	2.22	2.03	---	---	2.18	2.04	2.88	2.78
18	.05	+.11	1.98	1.90	2.19	1.55	---	---	2.18	2.16	2.95	2.88
19	+.11	+.15	2.07	1.98	1.67	1.60	---	---	2.31	2.17	2.95	2.92
20	+.11	+.14	2.07	2.06	1.90	1.67	---	---	2.41	2.31	3.03	2.95
21	+.11	+.12	2.07	1.89	2.03	1.90	---	---	2.52	2.41	3.14	3.03
22	+.11	+.12	---	---	2.03	1.55	---	---	2.61	2.52	3.20	3.14
23	+.11	+.11	---	---	2.02	1.72	---	---	2.68	2.61	3.20	3.20
24	+.09	+.11	---	---	2.20	2.02	---	---	2.74	2.68	3.23	3.20
25	+.09	+.11	---	---	2.32	2.20	---	---	2.82	2.74	3.24	2.00
26	+.11	+.11	---	---	2.42	2.32	---	---	2.90	2.82	2.00	1.31
27	+.10	+.11	---	---	2.53	1.93	---	---	2.95	2.90	1.51	1.34
28	+.08	+.10	---	---	1.93	1.41	---	---	3.00	2.95	---	---
29	+.04	+.08	---	---	---	---	---	---	3.03	3.00	---	---
30	.02	+.04	---	---	---	---	---	---	3.05	3.03	---	---
31	---	---	---	---	---	---	---	---	3.08	3.05	---	---
MONTH	.34	+.15	2.07	.02	2.53	1.41	2.87	2.72	3.08	1.99	3.23	1.31
YEAR	+.15	4.69										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

SUSSEX COUNTY---Continued

WELL NUMBER.--Of22-11. SITE ID.--384341075230001. PERMIT NUMBER.--95795.

LOCATION.--Lat 38°43'44", Long 75°23'01", Hydrologic Unit 02040207, near Redden State Forest.

Owner: Delaware Department of Transportation.

AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 16 ft; casing diameter 2 in., to 13 ft; screen diameter 2 in. from 13 to 16 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from Dec. 7, 1993 to current year.

DATUM.--Altitude of land surface is 47.92 ft above sea level.

Measuring Point: Top of recorder platform, 2.70 ft above land surface.

REMARKS.--Delaware Department of Transportation Wetlands Project observation well. Missing data due to recorder malfunction.

Periods of equal maximum and minimum daily values may be questionable due to the float hanging up in small diameter wells or other well construction factors.

PERIOD OF RECORD.--September 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.53 ft above land surface, March 3, 1994;

lowest measured, 7.52 ft below land surface, Sept. 15, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	4.54	4.52	3.69	3.67	4.14	4.14	3.42	3.40	2.88	2.84	1.99	1.97
2	4.55	4.54	3.69	3.62	4.17	4.14	3.42	3.41	2.85	2.84	2.13	1.98
3	4.60	4.55	3.62	3.62	4.20	4.16	3.44	3.42	2.85	2.80	2.18	2.13
4	4.60	4.60	3.66	3.62	4.22	4.20	3.44	3.41	---	---	2.23	2.18
5	4.63	4.60	3.66	3.66	4.23	4.22	3.43	3.32	---	---	2.34	2.23
6	4.68	4.63	3.66	3.66	4.23	4.21	3.32	3.22	---	---	2.41	2.34
7	4.73	4.68	3.70	3.66	4.21	4.13	3.22	3.19	---	---	2.43	2.41
8	4.75	4.73	3.74	3.70	4.13	4.08	3.20	3.19	---	---	2.43	2.42
9	4.76	4.75	3.76	3.74	4.08	4.00	3.19	3.18	---	---	2.46	2.43
10	4.76	4.76	3.77	3.76	4.00	3.94	3.18	3.09	---	---	2.57	2.46
11	4.82	4.76	3.86	3.77	3.94	3.89	3.10	3.05	---	---	2.57	2.53
12	4.84	4.82	3.87	3.86	3.89	3.86	3.11	3.08	---	---	2.55	2.47
13	4.84	4.83	3.87	3.87	3.86	3.83	3.13	3.05	---	---	---	---
14	4.91	4.83	3.88	3.86	3.83	3.48	3.18	3.12	---	---	2.60	2.58
15	4.94	4.91	3.88	3.88	3.48	3.31	3.20	3.18	---	---	2.63	2.59
16	4.95	4.94	3.96	3.88	3.31	3.28	3.20	3.14	---	---	---	---
17	4.95	4.72	4.03	3.96	3.28	3.27	3.22	3.18	---	---	---	---
18	4.72	4.31	4.06	4.03	3.27	3.27	3.22	3.21	---	---	---	---
19	4.31	4.22	4.08	4.06	3.27	3.27	3.23	3.21	---	---	---	---
20	4.22	3.91	4.08	4.08	3.27	3.24	3.24	3.21	---	---	---	---
21	3.91	3.68	4.12	4.08	3.24	3.24	3.33	3.24	---	---	---	---
22	3.68	3.57	4.15	4.12	3.24	3.24	3.37	3.33	---	---	---	---
23	3.57	3.57	4.16	4.15	3.24	3.22	3.37	3.37	---	---	---	---
24	3.57	3.56	4.18	4.16	3.23	3.22	3.41	3.37	---	---	---	---
25	3.57	3.57	4.19	4.18	3.24	3.23	3.38	3.28	2.27	2.19	---	---
26	3.57	3.54	4.19	4.18	3.24	3.20	3.44	3.37	2.27	2.27	---	---
27	3.58	3.54	4.18	4.14	3.21	3.20	3.48	3.44	2.27	2.21	---	---
28	3.60	3.58	4.14	4.14	3.21	3.21	3.52	3.48	---	---	---	---
29	3.62	3.60	4.14	4.12	3.32	3.21	3.54	3.52	1.99	1.93	---	---
30	3.67	3.62	4.14	4.13	3.35	3.32	3.54	3.18	---	---	---	---
31	3.67	3.67	---	---	3.40	3.35	3.18	2.88	---	---	---	---
MONTH	4.95	3.54	4.19	3.62	4.23	3.20	3.54	2.88	2.88	1.93	2.63	1.97

GROUND-WATER LEVELS IN DELAWARE--Continued

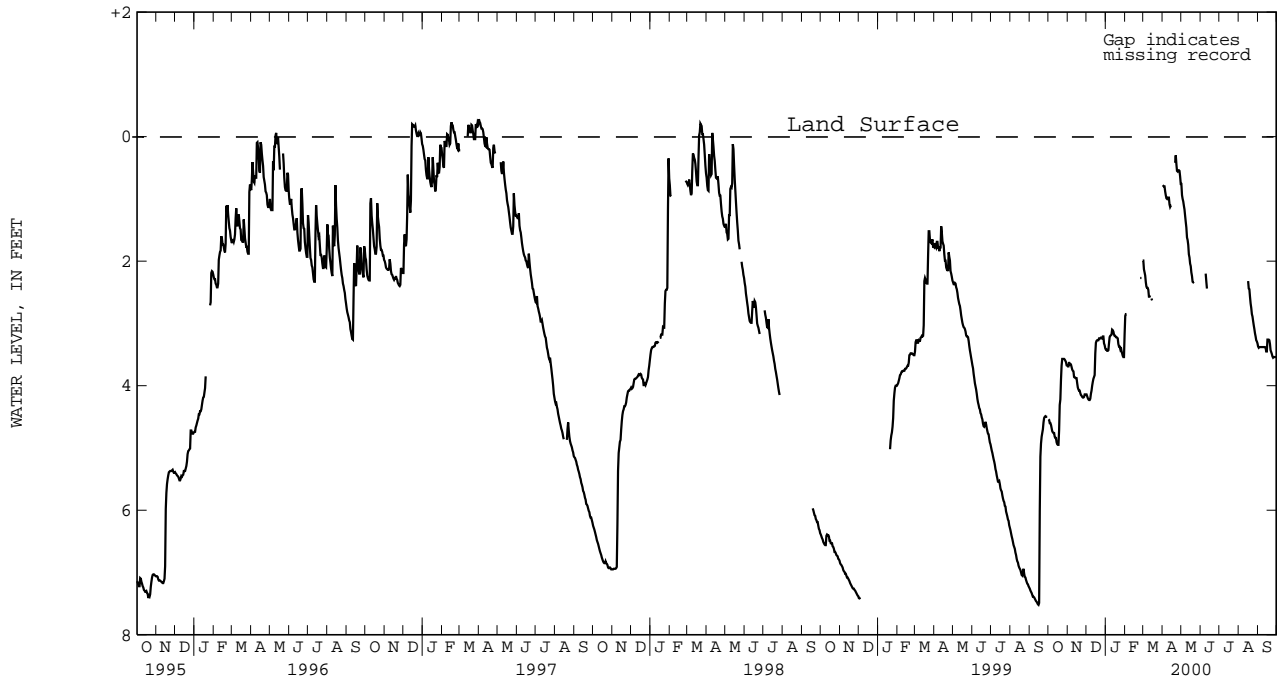
SUSSEX COUNTY---Continued

Of22-11--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	.78	.72	.76	.75	---	---	---	---	---	---	3.37	3.32
2	.79	.78	.94	.75	---	---	---	---	---	---	3.39	3.37
3	.80	.79	1.00	.94	---	---	---	---	---	---	3.38	3.38
4	.80	.79	1.04	1.00	---	---	---	---	---	---	3.38	3.38
5	.88	.80	1.11	1.04	---	---	---	---	---	---	3.38	3.38
6	.94	.81	1.17	1.11	---	---	---	---	---	---	3.38	3.38
7	.99	.94	1.27	1.17	---	---	---	---	---	---	3.38	3.38
8	1.00	.98	1.37	1.26	---	---	---	---	---	---	3.38	3.38
9	.98	.98	1.46	1.37	2.20	2.05	---	---	---	---	3.38	3.38
10	.98	.98	1.62	1.46	2.33	2.20	---	---	---	---	3.38	3.38
11	.98	.98	1.66	1.56	2.44	2.33	---	---	---	---	3.38	3.38
12	1.09	.98	1.74	1.65	---	---	---	---	---	---	3.38	3.38
13	1.13	1.09	1.89	1.73	---	---	---	---	---	---	3.39	3.38
14	1.11	1.11	1.94	1.88	---	---	---	---	---	---	3.45	3.39
15	1.11	.98	2.04	1.94	---	---	---	---	---	---	3.45	3.26
16	---	---	2.08	2.04	---	---	---	---	2.32	2.30	3.26	3.26
17	---	---	2.18	2.08	---	---	---	---	2.44	2.32	3.26	3.26
18	---	---	2.24	2.17	---	---	---	---	2.45	2.43	3.26	3.26
19	---	---	2.33	2.23	---	---	---	---	2.57	2.45	3.27	3.26
20	---	---	2.34	2.32	---	---	---	---	2.68	2.57	3.33	3.27
21	.42	.13	2.33	2.32	---	---	---	---	2.75	2.68	3.43	3.33
22	.30	.14	---	---	---	---	---	---	2.85	2.75	3.46	3.43
23	.44	.30	---	---	---	---	---	---	2.89	2.85	3.49	3.46
24	.55	.44	---	---	---	---	---	---	2.96	2.89	3.53	3.49
25	.56	.54	---	---	---	---	---	---	3.03	2.96	3.55	3.53
26	.54	.54	---	---	---	---	---	---	3.09	3.03	3.54	3.54
27	.54	.54	---	---	---	---	---	---	3.16	3.09	3.54	3.54
28	.55	.54	---	---	---	---	---	---	3.21	3.16	3.54	3.54
29	.64	.55	---	---	---	---	---	---	3.27	3.21	3.54	3.54
30	.76	.64	---	---	---	---	---	---	3.29	3.27	3.54	3.54
31	---	---	---	---	---	---	---	---	3.32	3.29	---	---
MONTH	1.13	.13	2.34	.75	2.44	2.05	---	---	3.32	2.30	3.55	3.26
YEAR	4.95	.13										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

SUSSEX COUNTY--Continued

WELL NUMBER.--Of23-03. SITE ID.--384333075222901. PERMIT NUMBER.--95793.

LOCATION.--Lat 38°43'33", long 75°22'29", Hydrologic Unit 02040207, near Redden State Forest.

Owner: Delaware Department of Transportation.

AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 20 ft; casing diameter 2 in., to 17 ft; screen diameter 2 in. from 17 to 20 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from Dec. 7, 1993 to current year.

DATUM.--Altitude of land surface is 51.40 ft above sea level.

Measuring Point: Top of recorder platform, 3.20 ft above land surface.

REMARKS.--Delaware Department of Transportation Wetlands Project observation well. Periods of equal maximum and minimum daily values may be questionable due to the float hanging up in small diameter wells or other well construction factors.

PERIOD OF RECORD.--September 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.34 ft below land surface, April 1, 1994;
lowest measured, 12.31 ft below land surface, Sept. 14, 15, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.06	9.02	8.40	8.35	9.20	9.20	8.54	8.52	8.51	8.39	7.34	7.30
2	9.11	9.06	8.40	8.29	9.22	9.20	8.54	8.54	8.39	8.35	7.40	7.30
3	9.14	9.11	8.44	8.30	9.24	9.22	8.56	8.54	8.35	8.24	7.43	7.40
4	9.15	9.14	8.49	8.44	9.26	9.24	8.56	8.51	8.24	8.23	7.46	7.42
5	9.20	9.15	8.52	8.49	9.26	9.26	8.57	8.52	8.23	8.22	7.57	7.46
6	9.27	9.20	8.52	8.51	9.26	9.25	8.57	8.52	8.23	8.18	7.64	7.57
7	9.33	9.27	8.57	8.51	9.26	9.25	8.52	8.45	8.18	8.14	7.67	7.63
8	9.36	9.33	8.61	8.57	9.26	9.25	8.51	8.48	8.16	8.12	7.65	7.62
9	9.38	9.36	8.62	8.61	9.25	9.22	8.49	8.47	8.12	8.02	7.66	7.64
10	9.38	9.38	8.63	8.62	9.22	9.12	8.47	8.32	8.02	7.96	7.77	7.66
11	9.45	9.38	8.74	8.63	9.15	9.14	8.44	8.35	7.96	7.90	7.78	7.74
12	9.49	9.45	8.74	8.74	9.14	9.13	8.47	8.44	7.92	7.87	7.84	7.72
13	9.49	9.48	8.75	8.74	9.13	9.09	8.48	8.32	7.87	7.72	7.92	7.84
14	9.61	9.48	8.76	8.71	9.09	8.90	8.53	8.48	7.72	7.63	7.91	7.91
15	9.65	9.61	8.78	8.76	8.90	8.64	8.56	8.53	7.71	7.66	7.92	7.91
16	9.66	9.65	8.86	8.78	8.64	8.53	8.54	8.43	7.67	7.58	7.93	7.85
17	9.66	9.52	8.94	8.86	8.53	8.41	8.55	8.49	7.71	7.64	7.85	7.76
18	9.52	9.33	8.98	8.94	8.41	8.37	8.54	8.50	7.69	7.50	7.85	7.77
19	9.33	9.06	9.00	8.98	8.37	8.33	8.52	8.50	7.50	7.46	7.77	7.71
20	9.06	8.75	9.00	9.00	8.33	8.25	8.53	8.46	7.47	7.43	7.71	7.70
21	8.75	8.46	9.03	9.00	8.27	8.25	8.61	8.53	7.43	7.41	7.70	7.01
22	8.46	8.22	9.06	9.03	8.27	8.26	8.68	8.61	7.41	7.37	7.01	5.81
23	8.22	8.18	9.08	9.06	8.27	8.24	8.68	8.67	7.37	7.33	5.81	5.69
24	8.18	8.17	9.10	9.08	8.29	8.25	8.68	8.64	7.33	7.31	5.70	5.69
25	8.18	8.16	9.11	9.10	8.33	8.29	8.65	8.52	7.36	7.31	5.71	5.68
26	8.16	8.14	9.11	9.09	8.32	8.24	8.73	8.65	7.38	7.36	5.71	5.68
27	8.23	8.14	9.11	9.09	8.33	8.28	8.79	8.73	7.38	7.33	5.72	5.65
28	8.27	8.23	9.11	9.11	8.35	8.33	8.82	8.79	7.33	7.32	5.70	5.62
29	8.29	8.27	9.19	9.11	8.43	8.33	8.83	8.82	7.34	7.33	5.76	5.69
30	8.34	8.29	9.20	9.19	8.45	8.43	8.83	8.67	---	---	5.77	5.74
31	8.35	8.34	---	---	8.52	8.45	8.67	8.51	---	---	5.84	5.77
MONTH	9.66	8.14	9.20	8.29	9.26	8.24	8.83	8.32	8.51	7.31	7.93	5.62

GROUND-WATER LEVELS IN DELAWARE--Continued

SUSSEX COUNTY--Continued

Of23-03--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.89	5.84	5.89	5.83	7.17	7.12	7.06	7.02	7.91	7.84	8.34	8.31
2	5.90	5.88	6.02	5.84	7.26	7.17	7.03	7.02	7.90	7.85	8.36	8.34
3	5.91	5.90	6.08	6.02	7.34	7.25	7.11	7.03	7.98	7.90	8.34	8.34
4	5.99	5.87	6.12	6.08	7.39	7.34	7.19	7.11	8.02	7.98	8.34	8.34
5	6.05	5.99	6.17	6.12	7.45	7.39	7.32	7.19	8.00	7.96	8.34	8.34
6	6.12	6.00	6.24	6.17	7.45	7.44	7.44	7.32	7.97	7.96	8.34	8.34
7	6.18	6.12	6.30	6.24	7.45	7.44	7.61	7.44	8.03	7.97	8.34	8.34
8	6.18	6.11	6.36	6.30	7.45	7.45	7.70	7.61	8.09	8.03	8.34	8.34
9	6.19	6.14	6.44	6.36	7.46	7.45	7.74	7.70	8.15	8.09	8.34	8.34
10	6.23	6.18	6.55	6.44	7.47	7.46	7.84	7.74	8.20	8.15	8.34	8.34
11	6.23	6.20	6.62	6.55	7.49	7.47	7.86	7.83	8.22	8.19	8.34	8.34
12	6.34	6.21	6.67	6.62	7.49	7.49	7.98	7.86	8.22	8.21	8.37	8.34
13	6.36	6.33	6.80	6.67	7.50	7.49	8.04	7.98	8.22	8.14	8.42	8.37
14	6.36	6.34	6.88	6.80	7.52	7.50	8.07	8.04	8.14	7.77	8.44	8.42
15	6.35	6.19	6.97	6.88	7.53	7.52	8.07	8.05	7.77	7.58	8.44	8.29
16	6.19	6.18	7.04	6.97	7.53	7.53	8.05	8.04	7.58	7.48	8.29	8.28
17	6.18	6.17	7.11	7.04	7.59	7.53	8.06	8.04	7.48	7.48	8.28	8.28
18	---	---	7.16	7.11	7.59	7.51	8.13	8.06	7.48	7.43	8.28	8.28
19	---	---	7.26	7.16	7.51	7.46	8.17	8.13	7.49	7.43	8.29	8.28
20	---	---	7.32	7.26	7.46	7.45	8.16	8.05	7.58	7.49	8.30	8.29
21	5.73	5.72	7.32	7.30	7.45	7.45	8.05	7.94	7.68	7.58	8.43	8.30
22	5.72	5.63	7.31	6.98	7.45	7.43	7.94	7.94	7.74	7.68	8.47	8.43
23	5.67	5.63	6.98	6.82	7.47	7.43	8.00	7.94	7.80	7.74	8.47	8.47
24	5.71	5.67	6.83	6.80	7.54	7.47	8.05	8.00	7.88	7.80	8.51	8.47
25	5.71	5.65	6.84	6.81	7.62	7.54	8.10	8.04	7.95	7.88	8.53	8.31
26	5.67	5.65	6.92	6.84	7.69	7.62	8.11	8.02	8.02	7.95	8.31	7.45
27	5.67	5.65	6.95	6.92	7.77	7.69	8.02	7.93	8.11	8.02	7.45	7.16
28	5.68	5.65	6.95	6.93	7.69	7.45	7.93	7.93	8.18	8.11	7.16	7.05
29	5.74	5.68	7.03	6.94	7.45	7.19	7.93	7.92	8.23	8.18	7.05	7.05
30	5.86	5.74	7.08	7.03	7.19	7.06	7.92	7.92	8.27	8.23	7.05	7.05
31	---	---	7.12	7.08	---	---	7.92	7.91	8.31	8.27	---	---
MONTH	---	---	7.32	5.83	7.77	7.06	8.17	7.02	8.31	7.43	8.53	7.05

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

SUSSEX COUNTY--Continued

WELL NUMBER.--Of23-05. SITE ID.--384341075223801. PERMIT NUMBER.--95794.

LOCATION.--Lat 38°43'41", long 75°22'38", Hydrologic Unit 02060008, near Redden State Forest.

Owner: Delaware Department of Transportation

AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 18 ft; casing diameter 2 in., to 15 ft; screen diameter 2 in. from 15 to 18 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from Oct. 1998 to current year.

DATUM.--Elevation of land surface is 46.49 ft above sea level. Prior to July 2, 1998, (due to excavation of material during construction of artificial wetland), the elevation of land surface was 50.13 ft above sea level.

Measuring Point: Top of recorder platform, 3.30 ft above land surface. Prior to July 2, 1998, (due to excavation of material during construction of artificial wetland), the measuring point was 1.83 ft above land surface.

REMARKS.--Delaware Department of Transportation Project observation well. Missing record due to recorder malfunction. Periods of equal maximum and minimum daily values may be questionable due to the float hanging up in small diameter wells or other well construction factors.

PERIOD OF RECORD.--September 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.02 ft above land surface, March 28, 2000; lowest measured, 9.95 ft below land surface, October 19, 1995.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
(READINGS ABOVE LAND SURFACE INDICATED BY "+")

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	3.69	3.61	2.70	2.61	3.64	3.58	2.98	2.90	2.49	2.31	1.57	1.40
2	3.75	3.69	2.64	2.29	3.71	3.64	2.91	2.80	2.47	2.39	1.71	1.46
3	3.76	3.73	2.82	2.39	3.73	3.67	2.91	2.83	2.39	2.13	1.74	1.64
4	3.73	3.60	2.86	2.80	3.75	3.67	2.84	2.63	2.35	2.21	1.81	1.72
5	3.73	3.60	2.85	2.72	3.75	3.64	2.88	2.77	2.40	2.28	2.00	1.78
6	3.84	3.73	2.78	2.69	3.65	3.58	2.86	2.61	2.45	2.19	2.07	2.00
7	3.98	3.84	2.92	2.78	3.67	3.61	2.73	2.52	2.23	2.09	2.10	1.89
8	3.97	3.91	2.99	2.92	3.62	3.53	2.77	2.65	2.33	2.11	1.98	1.88
9	3.93	3.90	3.01	2.93	3.54	3.43	2.65	2.60	2.11	1.94	1.99	1.87
10	3.93	3.82	3.01	2.91	3.43	3.27	2.62	2.25	2.04	1.96	2.23	1.99
11	4.03	3.84	3.28	2.98	3.44	3.33	2.69	2.38	2.19	1.88	2.21	1.94
12	4.08	4.01	3.28	3.09	3.37	3.30	2.79	2.59	2.19	2.01	2.34	1.90
13	4.01	3.96	3.14	3.07	3.32	3.27	2.89	2.30	2.03	1.76	2.39	2.28
14	4.22	3.96	3.21	2.92	3.30	2.81	2.96	2.89	1.91	1.58	2.33	2.22
15	4.26	4.22	3.24	3.16	2.81	2.46	2.93	2.74	2.08	1.90	2.36	2.25
16	4.25	4.18	3.45	3.20	2.55	2.43	2.86	2.51	1.96	1.65	2.32	2.05
17	4.18	3.55	3.59	3.45	2.57	2.49	2.98	2.86	2.14	1.96	2.21	1.89
18	3.55	3.40	3.60	3.54	2.54	2.47	2.88	2.74	2.01	1.50	2.20	1.94
19	3.41	3.02	3.57	3.50	2.54	2.48	2.95	2.80	1.72	1.51	1.94	1.86
20	3.02	2.76	3.50	3.42	2.48	2.25	3.00	2.66	1.72	1.59	1.92	1.86
21	2.76	2.50	3.56	3.48	2.49	2.35	3.18	3.00	1.70	1.62	1.91	1.23
22	2.50	2.26	3.60	3.56	2.50	2.41	3.27	3.18	1.67	1.59	1.23	.41
23	2.50	2.34	3.59	3.56	2.49	2.33	3.18	3.05	1.63	1.53	.41	.19
24	2.52	2.47	3.58	3.53	2.62	2.46	3.17	2.92	1.56	1.51	.23	.17
25	2.56	2.43	3.59	3.53	2.69	2.55	3.14	2.65	1.69	1.53	.20	.07
26	2.43	2.29	3.53	3.41	2.60	2.31	3.29	3.14	1.71	1.63	.22	.11
27	2.60	2.37	3.54	3.41	2.71	2.60	3.35	3.25	1.63	1.48	.24	.01
28	2.62	2.56	3.54	3.44	2.71	2.56	3.35	3.26	1.59	1.49	.26	+0.02
29	2.61	2.56	3.59	3.50	2.87	2.61	3.31	3.23	1.61	1.52	.36	.26
30	2.68	2.61	3.64	3.59	2.85	2.75	3.24	2.75	---	---	.35	.25
31	2.65	2.56	---	---	2.99	2.82	2.75	2.49	---	---	.43	.35
MONTH	4.26	2.26	3.64	2.29	3.75	2.25	3.35	2.25	2.49	1.48	2.39	+0.02

GROUND-WATER LEVELS IN DELAWARE--Continued

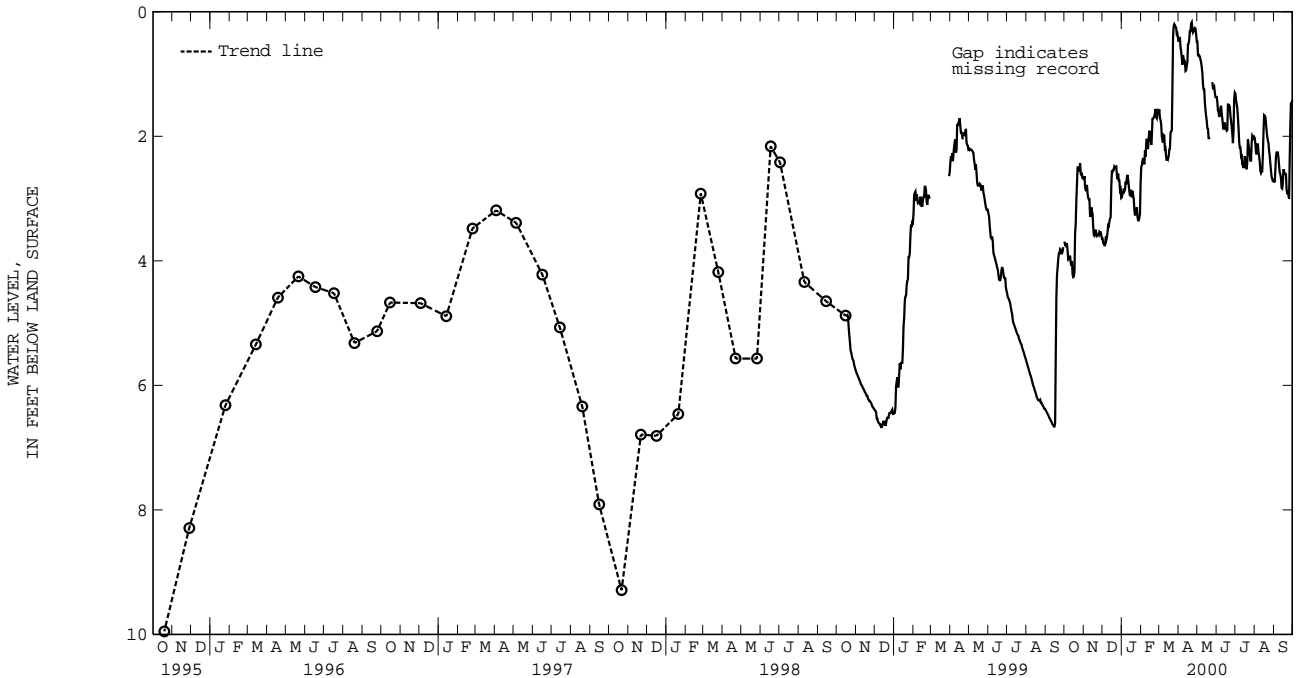
SUSSEX COUNTY--Continued

Of23-05--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
(READINGS ABOVE LAND SURFACE INDICATED BY "+")

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	.48	.38	.48	.32	1.37	1.32	1.32	1.27	2.03	1.97	2.72	2.68
2	.42	.38	.70	.34	1.45	1.34	1.42	1.32	2.13	2.03	2.74	2.54
3	.42	.33	.71	.66	1.59	1.39	1.48	1.42	2.26	2.12	2.54	2.32
4	.57	.27	.70	.63	1.61	1.57	1.55	1.47	2.29	2.13	2.32	2.12
5	.64	.57	.72	.64	1.69	1.61	1.70	1.55	2.13	2.07	2.26	2.21
6	.74	.44	.77	.72	1.65	1.45	1.87	1.70	2.13	2.08	2.26	2.22
7	.85	.61	.81	.75	1.54	1.46	2.09	1.87	2.25	2.12	2.26	2.22
8	.70	.52	.89	.81	1.51	1.48	2.18	2.09	2.33	2.23	2.35	2.26
9	.75	.62	.98	.87	1.63	1.49	2.18	2.13	2.41	2.32	2.47	2.35
10	.80	.72	1.17	.96	1.72	1.63	2.31	2.16	2.56	2.41	2.58	2.47
11	.80	.63	1.25	1.17	1.83	1.72	2.29	2.23	2.59	2.54	2.61	2.58
12	.95	.65	1.25	1.15	1.89	1.82	2.45	2.29	2.56	2.51	2.67	2.60
13	.94	.83	1.46	1.25	1.82	1.69	2.47	2.45	2.56	2.29	2.83	2.67
14	.87	.81	1.58	1.44	1.78	1.69	2.51	2.47	2.29	1.93	2.84	2.75
15	.81	.52	1.68	1.58	1.87	1.72	2.47	2.25	1.93	1.66	2.75	2.41
16	.52	.41	1.75	1.68	1.87	1.72	2.32	2.25	1.66	1.55	2.53	2.40
17	.51	.43	1.87	1.75	1.91	1.76	2.38	2.31	1.67	1.60	2.56	2.46
18	.44	.29	1.88	1.78	1.90	1.49	2.47	2.37	1.69	1.58	2.60	2.52
19	.31	.26	2.03	1.85	1.49	1.45	2.53	2.41	1.80	1.69	2.61	2.39
20	.31	.19	2.03	2.01	1.49	1.45	2.41	2.04	1.91	1.80	2.61	2.57
21	.19	.07	2.02	1.94	1.50	1.45	2.05	1.96	2.01	1.91	2.85	2.53
22	.17	.14	---	---	1.53	1.43	2.13	2.00	2.07	2.01	2.93	2.85
23	.27	.16	---	---	1.67	1.49	2.22	2.13	2.11	2.04	2.87	2.77
24	.33	.27	---	---	1.75	1.67	2.30	2.21	2.24	2.11	2.95	2.77
25	.31	.24	1.13	1.00	1.85	1.75	2.39	2.30	2.32	2.24	3.00	2.38
26	.28	.23	1.23	1.13	1.96	1.85	2.39	2.11	2.44	2.32	2.38	1.83
27	.26	.21	1.23	1.12	2.11	1.90	2.11	1.97	2.55	2.44	1.83	1.44
28	.27	.21	1.21	1.11	1.90	1.40	1.99	1.93	2.65	2.55	1.46	1.39
29	.36	.27	1.30	1.14	1.40	1.27	2.01	1.94	2.68	2.62	1.48	1.42
30	.48	.35	1.37	1.30	1.30	1.27	2.03	1.99	2.72	2.68	1.42	1.36
31	---	---	1.37	1.30	---	---	2.01	1.94	2.72	2.67	---	---
MONTH	.95	.07	2.03	.32	2.11	1.27	2.53	1.27	2.72	1.55	3.00	1.36
YEAR	4.26	+.02										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

SUSSEX COUNTY--Continued

WELL NUMBER.--Of23-11. SITE ID.--384345075225101. PERMIT NUMBER.--159964.
 LOCATION.--Lat 38°43'45", long 75°22'50", Hydrologic Unit 02040207, near Redden State Forest.
 Owner: Delaware Department of Transportation.
 AQUIFER.--Pleistocene-Pliocene Series. Aquifer code: 112PCPC.
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 19 ft; casing diameter 2 in., to 16 ft; screen diameter 2 in. from 16 to 19 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from October 15, 1998 to current year.
 DATUM.--Altitude of land surface is 46.64 ft above sea level.
 Measuring Point: Top of recorder platform, 3.60 ft above land surface.
 REMARKS.--Delaware Department of Transportation wetlands project observation well. Periods of equal maximum and minimum daily values may be questionable due to the float hanging up in small diameter wells or other well construction factors.
 PERIOD OF RECORD.--August 24, 1998 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.26 ft above land surface April 22, 2000; lowest measured, 6.92 ft, Sept. 14, 15, 1999.

 WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
 (READINGS ABOVE LAND SURFACE INDICATED BY "+")

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	3.75	3.74	2.91	2.91	3.63	3.60	2.91	2.82	2.60	2.47	1.61	1.53
2	3.75	3.72	2.91	2.75	3.63	3.61	2.90	2.86	2.54	2.50	1.69	1.54
3	3.83	3.72	3.03	2.81	3.64	3.63	2.91	2.87	2.51	2.36	1.72	1.67
4	3.82	3.77	3.06	3.03	3.68	3.64	2.89	2.77	2.43	2.37	1.76	1.68
5	3.80	3.75	3.05	3.02	3.68	3.65	2.89	2.82	2.47	2.43	1.88	1.74
6	3.82	3.76	3.02	2.98	3.65	3.63	2.88	2.88	2.50	2.43	1.93	1.88
7	3.82	3.80	3.10	2.98	3.64	3.62	2.88	2.67	2.43	2.33	1.96	1.89
8	3.80	3.77	3.14	3.07	3.62	3.58	2.77	2.73	2.44	2.39	1.92	1.89
9	3.77	3.75	3.14	3.11	3.58	3.57	2.74	2.74	2.43	2.23	1.95	1.89
10	3.75	3.72	3.13	3.10	3.57	3.35	2.74	2.48	2.23	2.16	2.08	1.95
11	3.82	3.71	3.32	3.11	3.45	3.39	2.70	2.54	2.22	2.12	2.08	1.96
12	3.85	3.80	3.32	3.31	3.39	3.38	2.74	2.68	2.22	2.13	2.15	1.94
13	3.84	3.69	3.31	3.24	3.38	3.34	2.78	2.49	2.13	2.13	2.19	2.15
14	3.89	3.69	3.29	3.12	3.34	3.08	2.83	2.78	2.13	1.87	2.16	2.16
15	3.88	3.85	3.30	3.27	3.08	2.84	2.82	2.82	2.04	1.96	2.16	2.15
16	3.85	3.83	3.45	3.30	2.84	2.74	2.82	2.60	2.00	1.84	2.18	2.04
17	3.83	3.80	3.51	3.45	2.77	2.73	2.84	2.77	2.09	1.99	2.04	1.89
18	3.80	3.40	3.53	3.51	2.73	2.72	2.81	2.78	2.04	1.74	1.96	1.87
19	3.40	3.13	3.55	3.52	2.72	2.70	2.80	2.78	1.74	1.67	1.87	1.79
20	3.13	3.05	3.52	3.50	2.70	2.59	2.85	2.69	1.70	1.64	1.81	1.79
21	3.05	3.01	3.57	3.51	2.67	2.61	2.96	2.85	1.65	1.65	1.81	.71
22	3.01	2.99	3.58	3.57	2.67	2.65	3.02	2.96	1.65	1.65	.71	.02
23	2.99	2.96	3.58	3.58	2.66	2.59	3.00	2.96	1.65	1.64	.02	+.04
24	2.96	2.92	3.58	3.58	2.60	2.60	3.00	2.88	1.65	1.64	+.03	+.04
25	2.92	2.90	3.58	3.58	2.76	2.60	2.97	2.71	1.72	1.64	.04	+.03
26	2.90	2.87	3.58	3.56	2.72	2.55	3.04	2.97	1.75	1.72	.02	+.03
27	2.89	2.85	3.59	3.57	2.75	2.68	3.14	3.04	1.73	1.63	.05	.01
28	2.89	2.89	3.59	3.58	2.75	2.68	3.16	3.12	1.64	1.59	.03	+.21
29	2.89	2.89	3.59	3.56	2.84	2.69	3.16	3.13	1.64	1.60	+.02	+.13
30	2.91	2.89	3.63	3.57	2.82	2.79	3.13	2.82	---	---	.08	+.02
31	2.91	2.90	---	---	2.82	2.81	2.82	2.60	---	---	.18	.08
MONTH	3.89	2.85	3.63	2.75	3.68	2.55	3.16	2.48	2.60	1.59	2.19	+.21

GROUND-WATER LEVELS IN DELAWARE--Continued

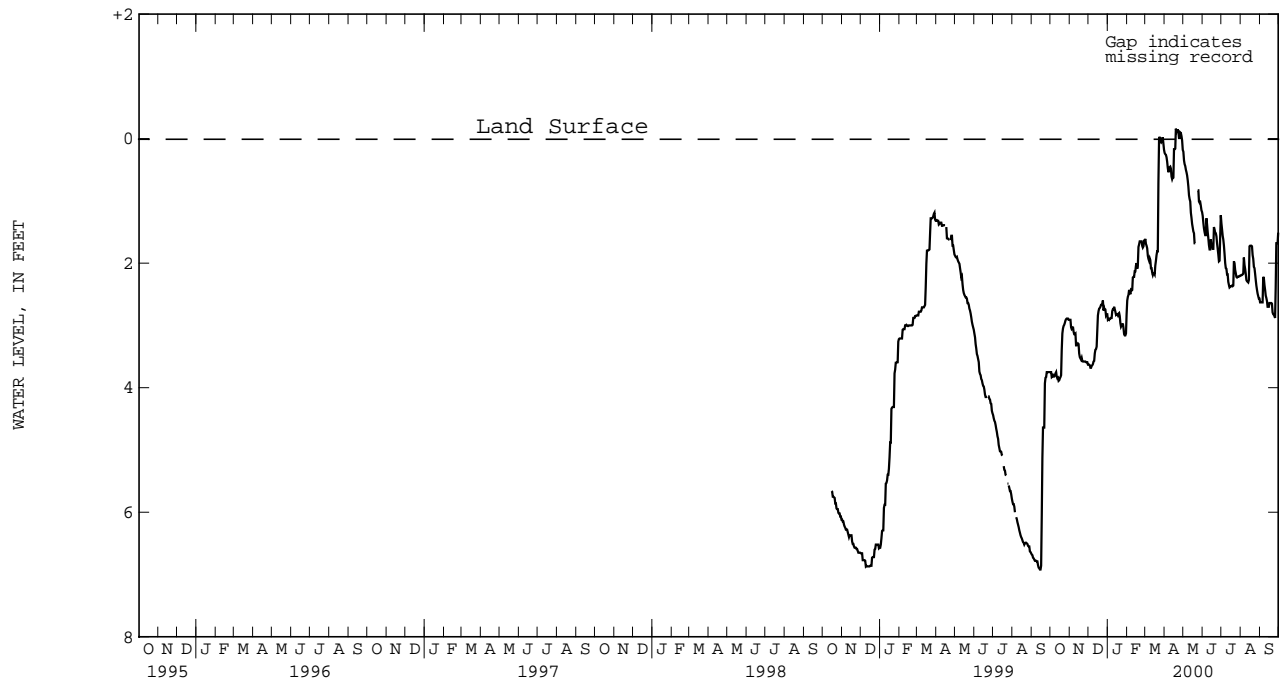
SUSSEX COUNTY--Continued

Of23-11--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
(READINGS ABOVE LAND SURFACE INDICATED BY "+")

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	.23	.18	.21	.14	1.24	1.17	1.36	1.23	2.20	2.19	2.63	2.57
2	.25	.22	.35	.15	1.35	1.24	1.46	1.36	2.19	2.19	2.63	2.63
3	.26	.22	.41	.35	1.44	1.34	1.56	1.46	2.19	2.18	2.63	2.63
4	.30	.17	.44	.41	1.50	1.44	1.62	1.56	2.18	2.17	2.63	2.63
5	.37	.30	.50	.44	1.55	1.50	1.72	1.62	2.17	1.90	2.63	2.22
6	.47	.31	.54	.50	1.55	1.22	1.85	1.72	1.91	1.90	2.22	2.22
7	.54	.45	.59	.54	1.28	1.22	2.00	1.85	2.03	1.90	2.24	2.22
8	.51	.42	.67	.59	1.38	1.28	2.08	2.00	2.09	2.03	2.35	2.24
9	.46	.28	.77	.67	1.50	1.38	2.09	2.08	2.17	2.09	2.43	2.35
10	.45	.36	.91	.77	1.60	1.50	2.18	2.09	2.27	2.17	2.52	2.43
11	.48	.43	.97	.91	1.71	1.60	2.18	2.18	2.29	2.27	2.56	2.52
12	.61	.44	1.01	.96	1.78	1.71	2.30	2.18	2.30	2.28	2.61	2.56
13	.65	.60	1.19	1.01	1.78	1.58	2.35	2.29	2.31	2.27	2.70	2.61
14	.62	.60	1.27	1.19	1.62	1.58	2.39	2.35	2.27	1.73	2.70	2.70
15	.62	.17	1.37	1.27	1.71	1.61	2.38	2.37	1.73	1.72	2.70	2.64
16	.17	.07	1.43	1.37	1.71	1.70	2.37	2.37	1.72	1.72	2.64	2.64
17	.17	.08	1.49	1.43	1.77	1.69	2.37	2.36	1.72	1.72	2.64	2.64
18	.16	+.17	1.52	1.49	1.77	1.42	2.36	2.28	1.72	1.72	2.64	2.64
19	+.16	+.18	1.68	1.52	1.42	1.39	2.37	2.32	1.73	1.72	2.64	2.57
20	+.10	+.16	1.68	1.66	1.46	1.39	2.36	1.97	1.87	1.73	2.65	2.63
21	+.11	+.15	---	---	1.51	1.46	1.97	1.90	1.93	1.87	2.79	2.65
22	+.15	+.26	---	---	1.52	1.40	2.00	1.91	2.06	1.93	2.82	2.79
23	+.11	+.23	---	---	1.57	1.41	2.11	2.00	2.08	2.06	2.83	2.82
24	+.01	+.11	.83	.73	1.68	1.57	2.16	2.11	2.17	2.08	2.85	2.83
25	+.01	+.20	.83	.80	1.77	1.68	2.22	2.16	2.27	2.17	2.88	2.40
26	+.10	+.20	1.01	.82	1.86	1.77	2.23	2.22	2.36	2.27	2.40	1.68
27	+.09	+.10	1.03	1.01	1.97	1.86	2.22	2.22	2.43	2.36	1.68	1.68
28	+.04	+.10	1.02	.99	1.96	1.58	2.22	2.21	2.49	2.43	1.68	1.68
29	.03	+.04	1.08	.93	1.58	1.22	2.21	2.21	2.53	2.49	1.68	1.51
30	.18	.03	1.15	1.08	1.23	1.22	2.21	2.20	2.57	2.53	1.51	1.51
31	---	---	1.18	1.15	---	---	2.20	2.20	2.57	2.57	---	---
MONTH	.65	+.26	1.68	.14	1.97	1.17	2.39	1.23	2.57	1.72	2.88	1.51
YEAR	+.26	3.89										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

SUSSEX COUNTY--Continued

WELL NUMBER.--Oh54-01. SITE ID.--384038075110001.

LOCATION.--Lat 38°40'38", long 75°11'00", Hydrologic Unit 02060010, at intersection of DE Rts 24 and 277, near Angola.

Owner: U.S. Geological Survey.

AQUIFER.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 290 ft; casing diameter 2 in., to 280 ft; screen diameter 2 in., from 280 to 290 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by Delaware Geological Survey personnel. Measured monthly from November 1977 to December 1979; twice yearly from March 1980 to October 1984. Monthly measurements by U.S. Geological Survey and Delaware Geological Survey personnel from February 1985 to July 1987.

DATUM.--Elevation of land surface is 18 ft above sea level, from topographic map.

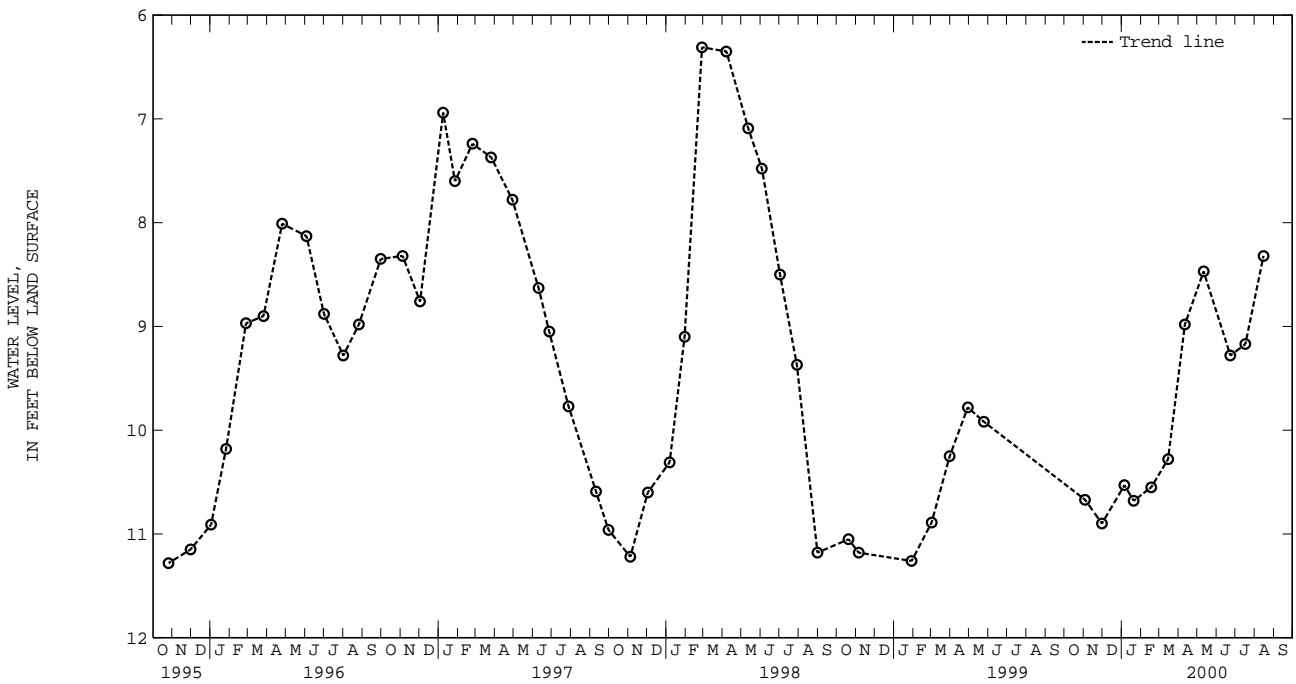
Measuring Point: Top of steel casing, 1.5 ft above land surface.

PERIOD OF RECORD.--November 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.35 ft below land surface, April 4, 1984; lowest measured, 12.44 ft below land surface, Dec. 1, 1993.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 03, 1999	10.67	JAN 20, 2000	10.68	APR 11, 2000	8.98	JUL 17, 2000	9.17
30	10.90	FEB 17	10.55	MAY 11	8.47	AUG 15	8.32
JAN 05, 2000	10.53	MAR 15	10.28	JUN 23	9.28		
WATER YEAR 2000 HIGHEST		8.32	AUG 15, 2000 LOWEST		10.90	NOV 30, 1999	



SUSSEX COUNTY--Continued

WELL NUMBER.--Oh54-02. SITE ID.--384038075110002.

LOCATION.--Lat 38°40'38", long 75°11'00", Hydrologic Unit 02060010, at intersection of DE Rts. 24 and 277, near Angola.

Owner: U.S. Geological Survey.

AQUIFER.--Pocomoke aquifer of Upper Miocene-Pliocene age. Aquifer code: 122PCMK.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 189 ft; casing diameter 2 in., to 179 ft; screen diameter 2 in., from 179 to 189 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by Delaware Geological Survey personnel. Measured monthly from November 1977 to December 1979; twice yearly from March 1980 to October 1984. Measured monthly by U.S. Geological Survey and Delaware Geological Survey personnel from February 1985 to July 1987.

DATUM.--Elevation of land surface is 18 ft above sea level, from topographic map.

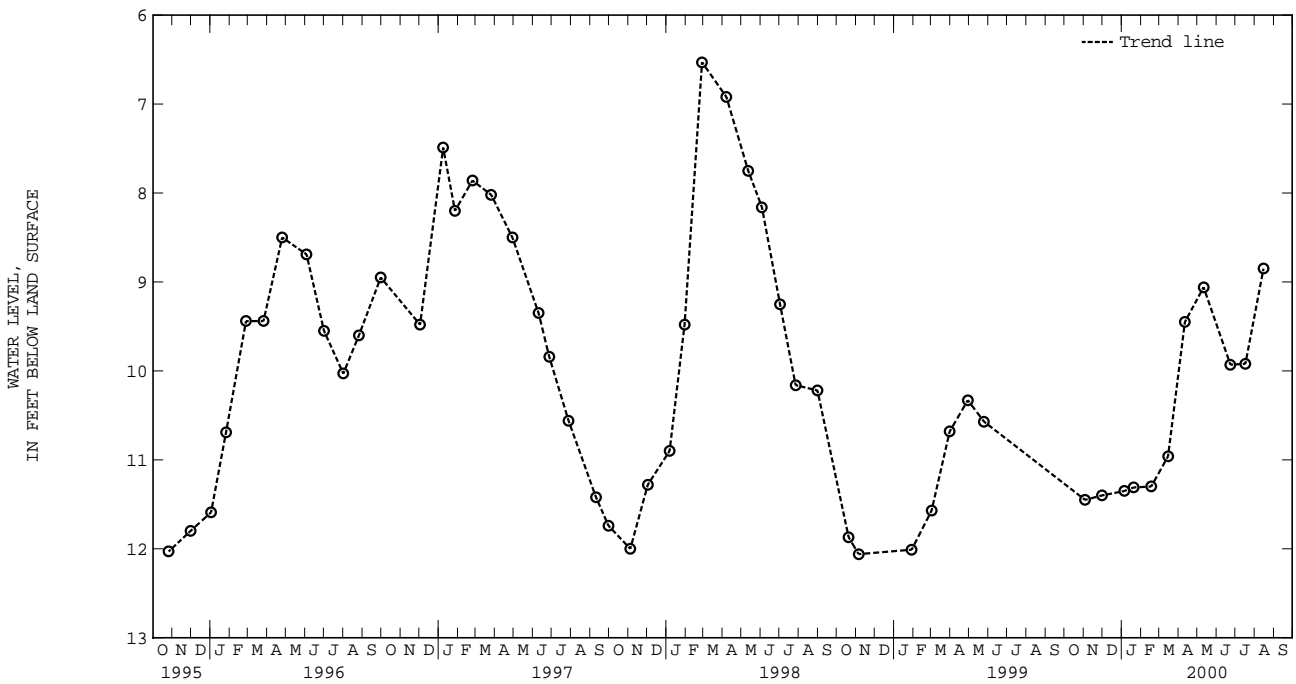
Measuring Point: Top of steel casing, 1.5 ft above land surface.

PERIOD OF RECORD.--November 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.44 ft below land surface, April 2, 1979; lowest measured, 13.85 ft below land surface, Sept. 23, 1981.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 03, 1999	11.45	JAN 20, 2000	11.31	APR 11, 2000	9.45	JUL 17, 2000	9.92
30	11.40	FEB 17	11.30	MAY 11	9.06	AUG 15	8.85
JAN 05, 2000	11.35	MAR 15	10.96	JUN 23	9.93		
WATER YEAR 2000 HIGHEST		8.85	AUG 15, 2000		LOWEST		11.45
							NOV 03, 1999



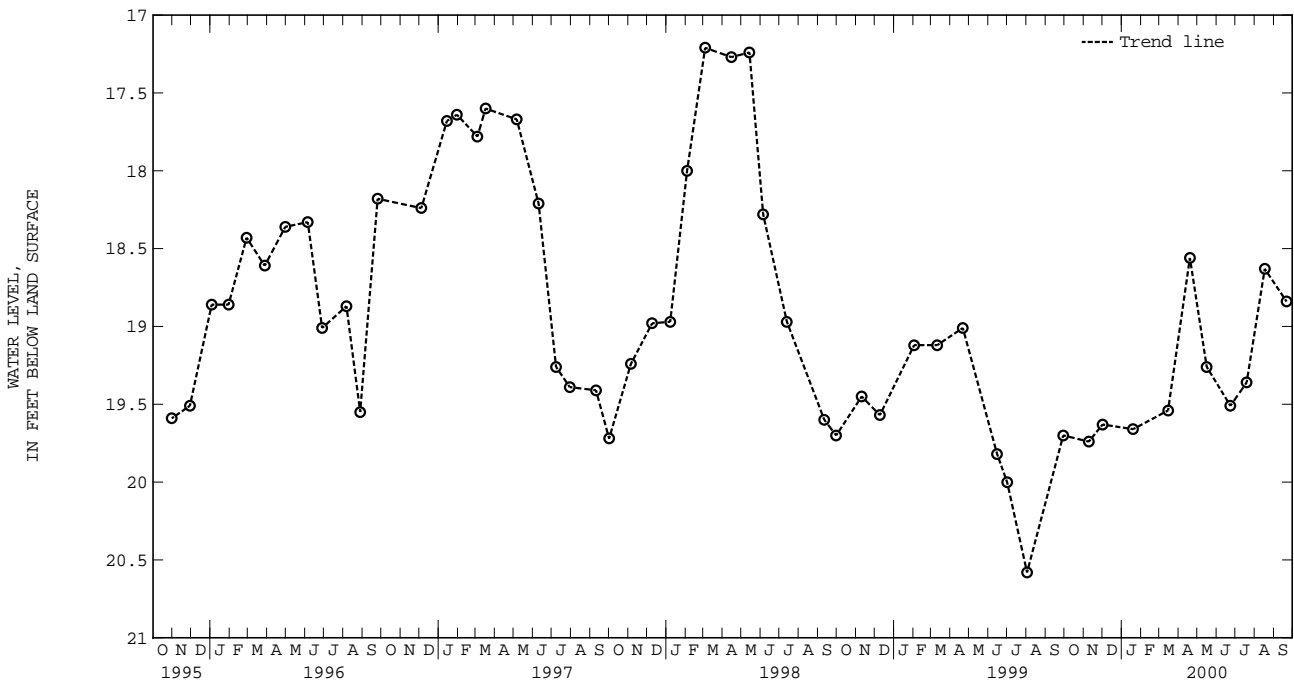
5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

SUSSEX COUNTY--Continued

WELL NUMBER.--O124-06. SITE ID.--384258075063101. PERMIT NUMBER.--03489.
 LOCATION.--Lat 38°42'58", long 75°06'31", Hydrologic Unit 02060010, nr DE Rt. 1, at Rehobeth Water Pumping Station.
 Owner: City of Rehobeth.
 AQUIFER.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 250 ft; casing diameter 4 in., to 230 ft; screened 230 to 250 ft.
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by Delaware Geological Survey personnel. Equipped with graphic water-level recorder from June 1976 to December 1979. Measured monthly January 1980 to December 1981.
 DATUM.--Elevation of land surface is 25 ft above sea level.
 Measuring Point: Top of casing, 0.70 ft above land surface.
 REMARKS.--Delaware Water-Level Network observation well.
 PERIOD OF RECORD.--May 1976 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.90 ft below land surface, March 25, 1979.
 lowest measured, 20.58 ft below land surface, August 2, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 09, 1999	19.74	MAR 15, 2000	19.54	JUN 23, 2000	19.51	SEP 21, 2000	18.84
DEC 01	19.63	APR 19	18.56	JUL 19	19.36		
JAN 19, 2000	19.66	MAY 16	19.26	AUG 17	18.63		
WATER YEAR 2000 HIGHEST 18.56		APR 19, 2000		LOWEST 19.74		NOV 09, 1999	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

SUSSEX COUNTY--Continued

WELL NUMBER.--Pf24-02. SITE ID.--383730075213501.

LOCATION.--Lat 38°37'30", long 75°21'35", Hydrologic Unit 02060010, nr DE Rt. 113, nr Stockley Hospital.

Owner: U.S. Geological Survey.

AQUIFER.--Columbia aquifer of Pleistocene age. Aquifer code: 112°CLMB.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 49 ft; casing diameter 4 in., to 46 ft; screen diameter 4 in. from 46 to 49 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel from June 1998 to current year. Equipped with graphic water-level recorder from January 1970 to January 1982. Intermittent measurements from April 1982 to August 1987. Twice yearly measurements from February 1988 to April 1993.

DATUM.--Elevation of land surface is 50 ft above sea level.

Measuring Point: Top of casing, 3.00 ft above land surface.

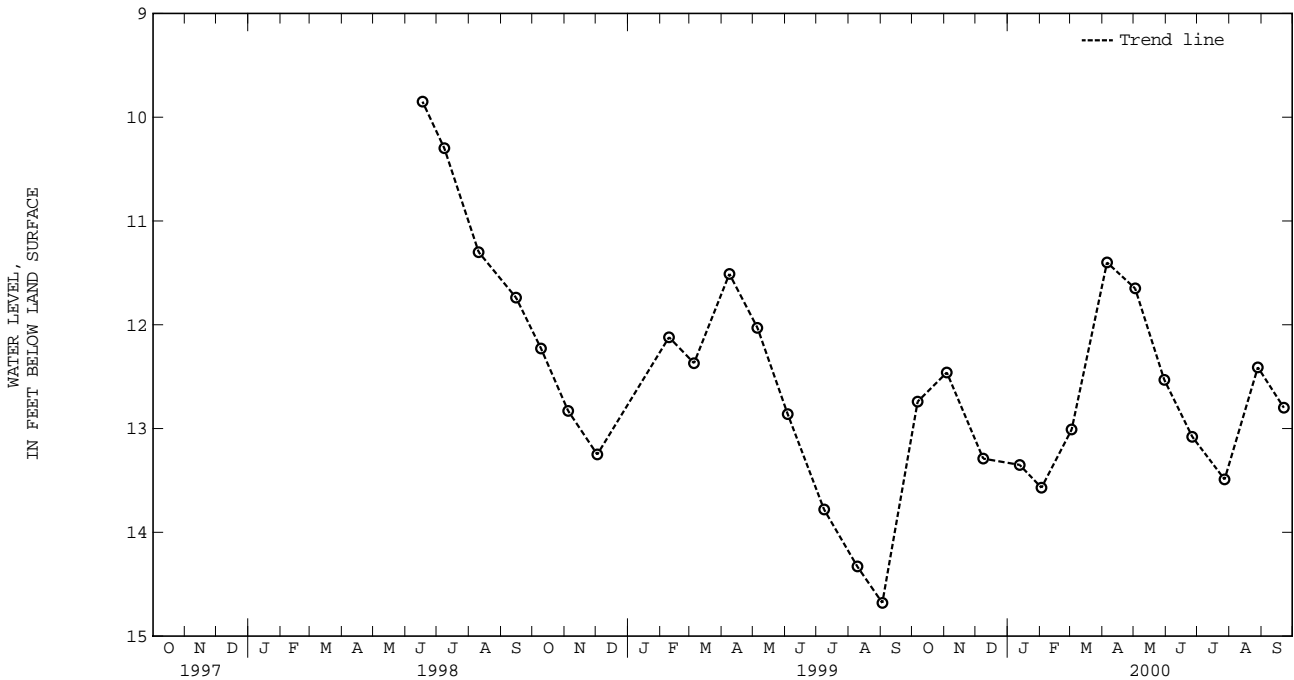
REMARKS.--Delaware Water-Level Network and Collection of Basic Records (CBR) national network observation well (see figure 3).

PERIOD OF RECORD.--January 1970 to April 1993, June 1998 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.53 ft below land surface, March 10, 1979.
lowest measured, 14.68 ft below land surface, September 2, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 1999	12.74	FEB 02, 2000	13.57	MAY 30, 2000	12.53	SEP 22, 2000	12.80
NOV 03	12.46	MAR 02	13.01	JUN 26	13.08		
DEC 08	13.29	APR 05	11.40	JUL 27	13.49		
JAN 12, 2000	13.35	MAY 02	11.65	AUG 28	12.41		
WATER YEAR 2000 HIGHEST		11.40	APR 05, 2000	LOWEST		13.57	FEB 02, 2000



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

SUSSEX COUNTY--Continued

WELL NUMBER.--Pf24-03. SITE ID.--383730075213502.

LOCATION.--Lat 38°37'30", long 75°21'35", Hydrologic Unit 02060010, nr DE Rt. 113, nr Stockley Hospital.

Owner: U.S. Geological Survey.

AQUIFER.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 178 ft; casing diameter 4 in., to 58 ft; casing diameter 2 in., to 168 ft; screen diameter 2 in., from 168 to 178 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel from June 1998 to current year.

Weekly measurements from November 1976 to May 1977. Monthly measurements from June 1977 to December 1986. Intermittent measurements from February 1987 to November 1988. Twice yearly measurements from April 1989 to April 1993

DATUM.--Elevation of land surface is 50 ft above sea level.

Measuring Point: Top of casing, 1.7 ft above land surface.

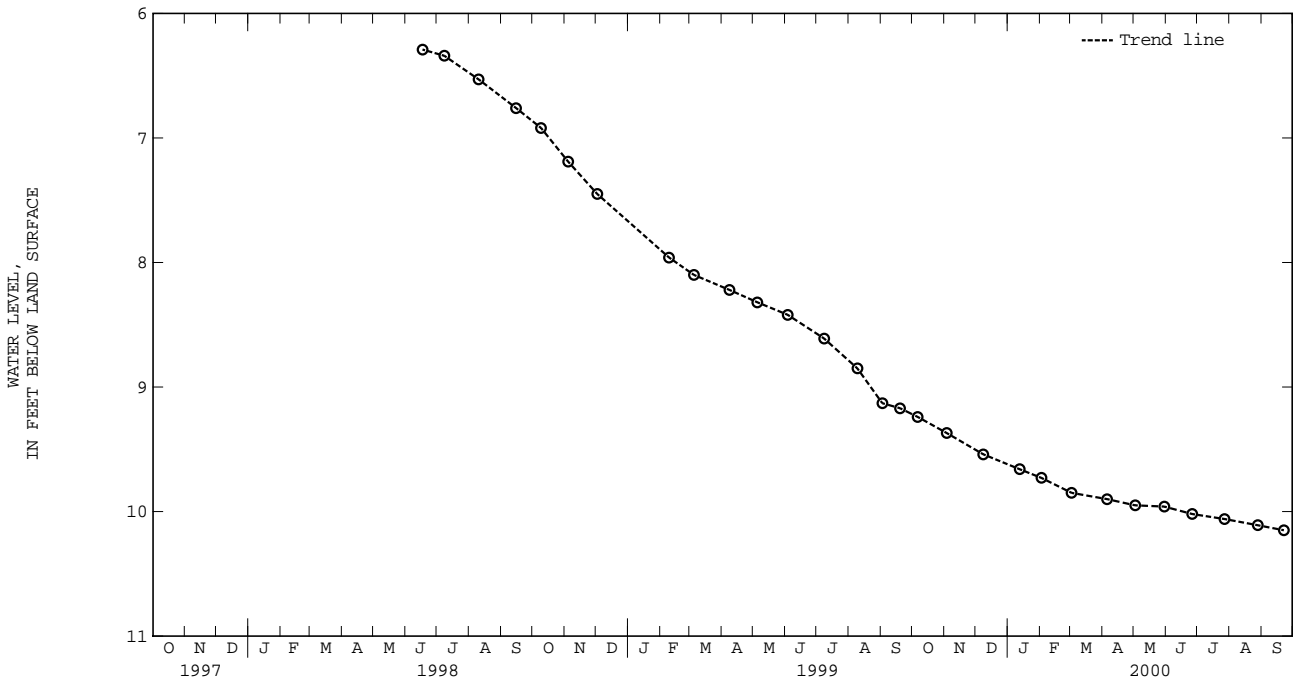
REMARKS.--Delaware Water-Level Network observation well. Water levels are affected by regional ground-water withdrawal.

PERIOD OF RECORD.--November 1976 to April 1993, June 1998 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.67 ft below land surface, April 2, 1979. lowest measured, 12.72 ft below land surface, Aug. 28, 1979.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 1999	9.24	FEB 02, 2000	9.73	MAY 30, 2000	9.96	SEP 22, 2000	10.15
NOV 03	9.37	MAR 02	9.85	JUN 26	10.02		
DEC 08	9.54	APR 05	9.90	JUL 27	10.06		
JAN 12, 2000	9.66	MAY 02	9.95	AUG 28	10.11		
WATER YEAR 2000 HIGHEST		9.24	OCT 06, 1999	LOWEST		10.15	SEP 22, 2000



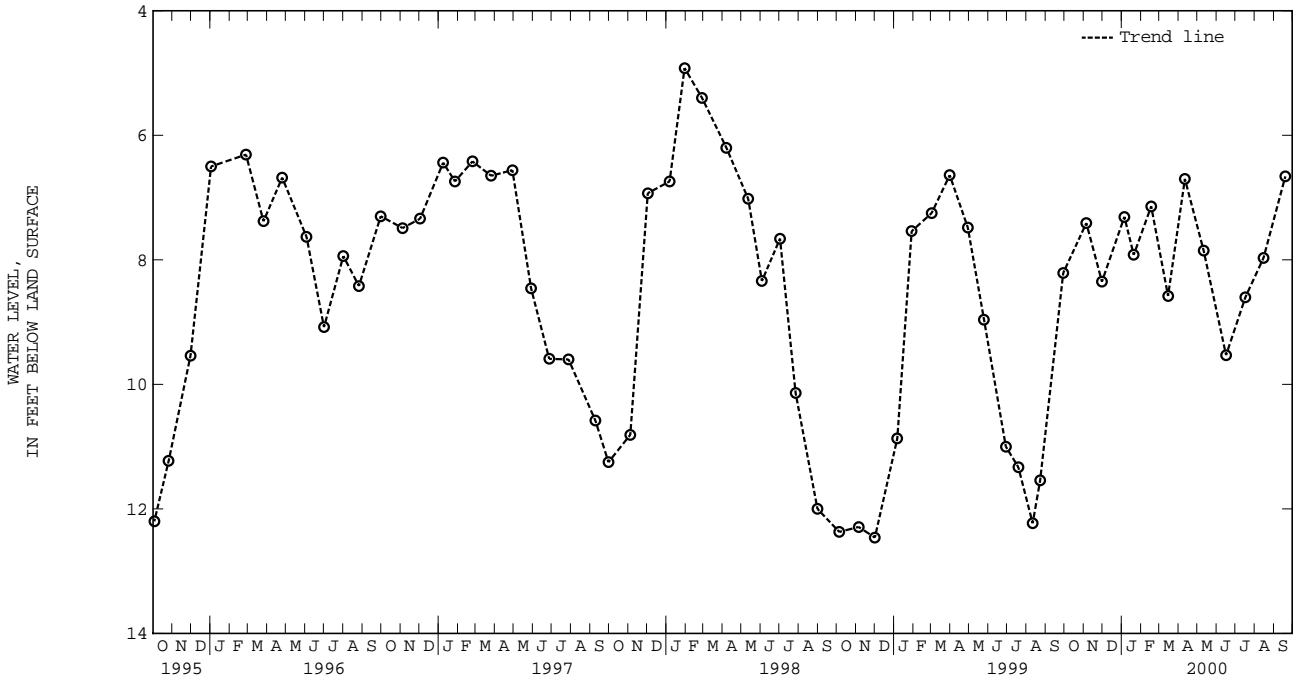
5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

SUSSEX COUNTY--Continued

WELL NUMBER.--Qe44-01. SITE ID.--383138075260201. PERMIT NUMBER.--49320.
 LOCATION.--Lat 38°31'38", long 75°26'02", Hydrologic Unit 02060008, 1.0 mi east of Whaleys Crossroads.
 Owner: Delaware Department of Transportation.
 AQUIFER.--Columbia aquifer of Pleistocene age. Aquifer code: 112CLMB.
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 25 ft; casing diameter 1 in., to 22 ft; well point from 22 to 25 ft.
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by and Delaware Geological Survey personnel.
 DATUM.--Elevation of land surface is 50 ft above sea level, from topographic map.
 Measuring point: Top of casing at land surface.
 PERIOD OF RECORD.--September 1959 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.66 ft below land surface, Jan. 10, 1994;
 lowest measured, 12.46 ft below land surface, Dec. 1, 1998.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 05, 1999	7.41	JAN 20, 2000	7.92	APR 11, 2000	6.70	JUL 17, 2000	8.60
30	8.35	FEB 17	7.14	MAY 11	7.85	AUG 15	7.97
JAN 05, 2000	7.31	MAR 15	8.58	JUN 16	9.53	SEP 19	6.66
WATER YEAR 2000 HIGHEST		6.66	SEP 19, 2000	LOWEST		9.53	JUN 16, 2000



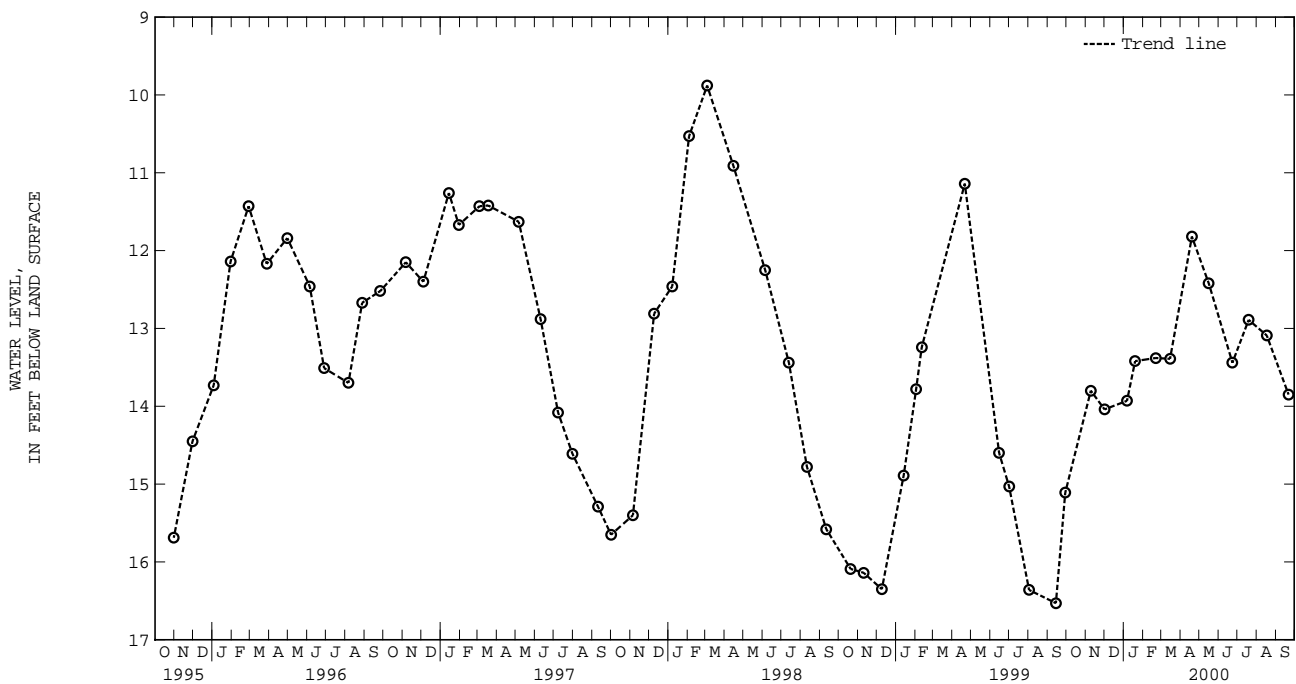
5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

SUSSEX COUNTY--Continued

WELL NUMBER.--Qh54-04. SITE ID.--383050075105201.
 LOCATION.--Lat 39°30'50", long 75°10'52", Hydrologic Unit 02060010, at Pyle Center, Omar.
 Owner: U.S. Geological Survey.
 AQUIFER.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 328 ft; casing diameter 2 in., to 324 ft; screen diameter 2 in., from 324 to 328 ft.
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by Delaware Geological Survey personnel.
 Measured monthly from November 1978 to December 1979. Intermittent measurements March 1980 to February 1985.
 Measured monthly from April 1985 to November 1988.
 DATUM.--Elevation of land surface is 28 ft above sea level.
 Measuring Point: Top of casing, 2.0 ft above land surface.
 PERIOD OF RECORD.--November 1978 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.07 ft below land surface, April 2, 1979;
 lowest measured, 16.53 ft below land surface, Sept. 14, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 09, 1999	13.80	JAN 19, 2000	13.42	APR 19, 2000	11.82	JUL 19, 2000	12.89
DEC 01	14.04	FEB 21	13.38	MAY 16	12.42	AUG 17	13.09
JAN 06, 2000	13.93	MAR 15	13.39	JUN 23	13.44	SEP 21	13.85
WATER YEAR 2000 HIGHEST 11.82		APR 19, 2000		LOWEST 14.04		DEC 01, 1999	



SUSSEX COUNTY--Continued

WELL NUMBER.--Qh54-05. SITE ID.--383050075105202.

LOCATION.--Lat 39°30'50", long 75°10'52", Hydrologic Unit 02060010, at Pyle Center, Omar.

Owner: U.S. Geological Survey.

AQUIFER.--Ocean City aquifer of Upper Miocene age. Aquifer code: 1220CNC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 232 ft; casing diameter 2 in., to 229 ft; screen diameter 2 in., from 229 to 232 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by Delaware Geological Survey personnel. Measured monthly from November 1978 to December 1979 and April 1985 to November 1988. Intermittent measurements from March 1980 to February 1985.

DATUM.--Elevation of land surface is 28 ft above sea level.

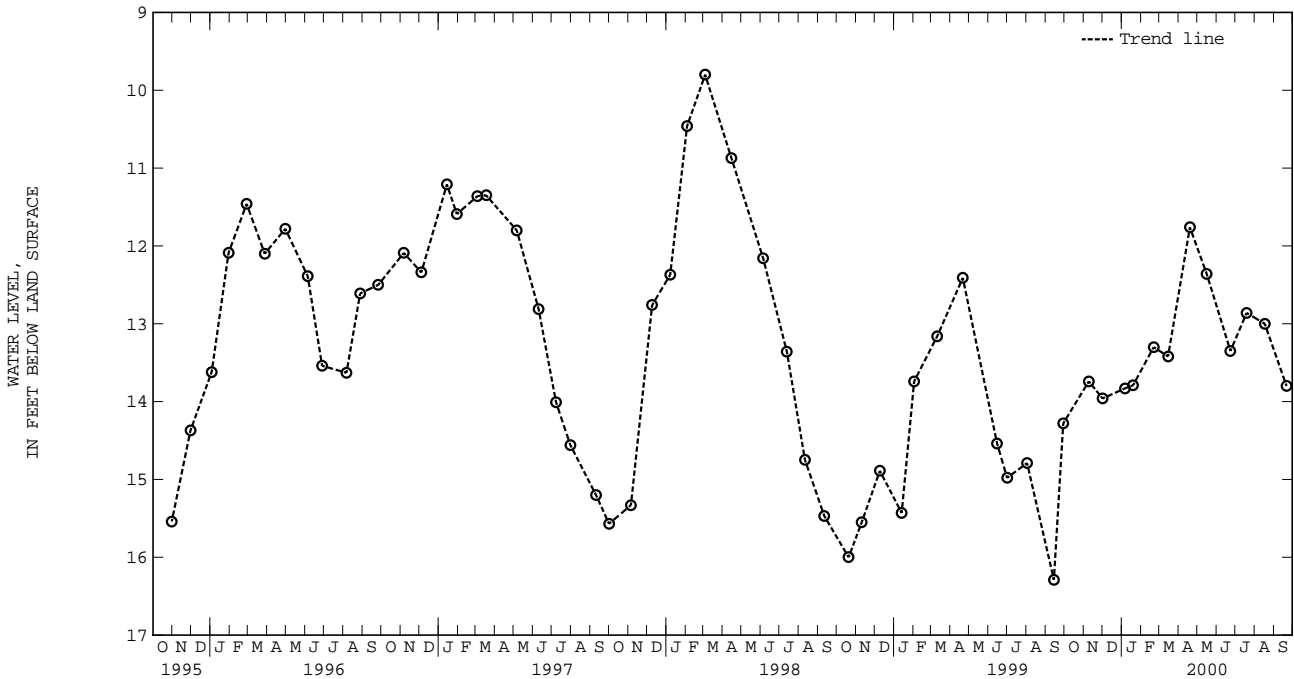
Measuring Point: Top of casing, 2.0 ft above land surface.

PERIOD OF RECORD.--November 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.63 ft below land surface, March 1, 1979; lowest measured, 16.43 ft below land surface, Oct. 21, 1987.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 09, 1999	13.74	JAN 19, 2000	13.79	APR 19, 2000	11.76	JUL 19, 2000	12.86
DEC 01	13.96	FEB 21	13.30	MAY 16	12.36	AUG 17	13.00
JAN 06, 2000	13.83	MAR 15	13.42	JUN 23	13.35	SEP 21	13.80
WATER YEAR 2000 HIGHEST		11.76	APR 19, 2000		LOWEST		13.96
						DEC 01, 1999	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

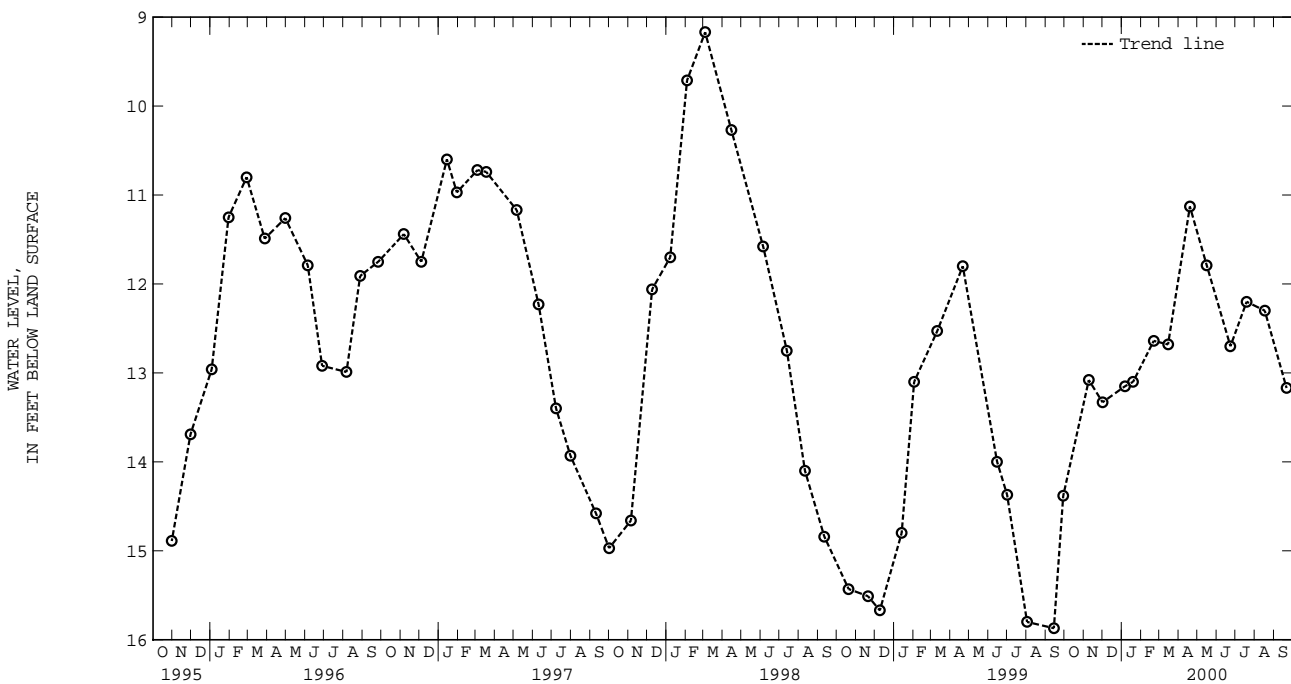
SUSSEX COUNTY--Continued

WELL NUMBER.--Qh54-06. SITE ID.--383050075105203.
 LOCATION.--Lat 39°30'50", long 75°10'52", Hydrologic Unit 02060010, at Pyle Center, Omar.
 Owner: U.S. Geological Survey.
 AQUIFER.--Pocomoke aquifer of Upper Miocene-Pliocene age. Aquifer code: 122PCMK.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 148 ft; casing diameter 2 in., to 144 ft; screen diameter 2 in., from 144 to 148 ft.
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by Delaware Geological Survey personnel.
 Measured monthly from November 1978 to December 1979. Intermittent measurements March 1980 to February 1985.
 Measured monthly from April 1985 to November 1988.
 DATUM.--Elevation of land surface is 28 ft above sea level.
 Measuring Point: Top of casing, 2.0 ft above land surface.
 PERIOD OF RECORD.--November 1978 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.95 ft below land surface, March 1, 1979;
 lowest measured, 17.10 ft below land surface, July 24, 1986.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 09, 1999	13.08	JAN 19, 2000	13.10	APR 19, 2000	11.13	JUL 19, 2000	12.20
DEC 01	13.33	FEB 21	12.64	MAY 16	11.79	AUG 17	12.30
JAN 06, 2000	13.15	MAR 15	12.68	JUN 23	12.70	SEP 21	13.17

WATER YEAR 2000 HIGHEST 11.13 APR 19, 2000 LOWEST 13.33 DEC 01, 1999



SUSSEX COUNTY--Continued

WELL NUMBER.--Qh54-07. SITE ID.--383050075105204.

LOCATION.--Lat 39°30'50", long 75°10'52", Hydrologic Unit 02060010, at Pyle Center, Omar.

Owner: U.S. Geological Survey.

AQUIFER.--Columbia aquifer of Pleistocene age. Aquifer code: 112CLMB.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 108 ft; casing diameter 2 in., to 104 ft; screen diameter 2 in., from 104 to 108 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by Delaware Geological Survey personnel. Measured monthly from November 1978 to December 1979, and April 1985 to November 1988. Intermittent measurements from March 1980 to February 1985.

DATUM.--Elevation of land surface is 28 ft above sea level.

Measuring Point: Top of casing, 2.0 ft above land surface.

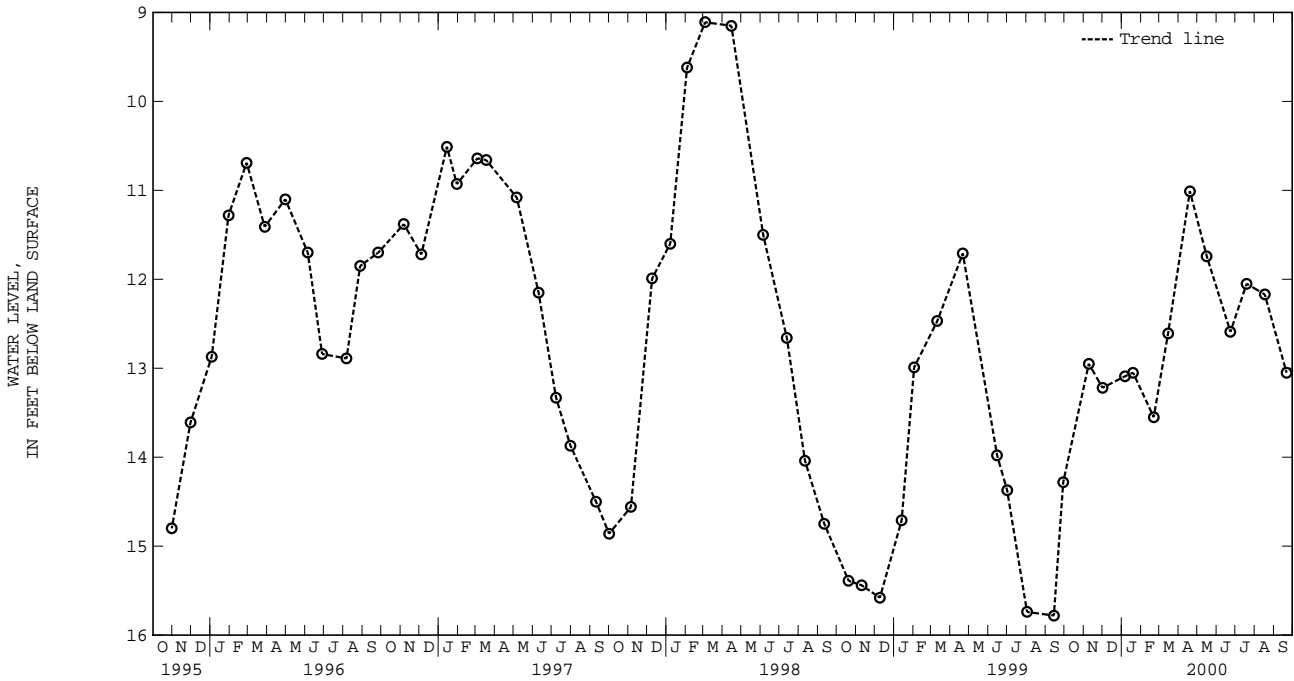
PERIOD OF RECORD.--December 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.83 ft below land surface, March 1, 1979;

lowest measured, 15.78 ft below land surface, Sept. 14, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 09, 1999	12.95	JAN 19, 2000	13.05	APR 19, 2000	11.01	JUL 19, 2000	12.05
DEC 01	13.22	FEB 21	13.55	MAY 16	11.74	AUG 17	12.17
JAN 06, 2000	13.09	MAR 15	12.61	JUN 23	12.59	SEP 21	13.05
WATER YEAR 2000 HIGHEST		11.01	APR 19, 2000	LOWEST		13.55	FEB 21, 2000



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

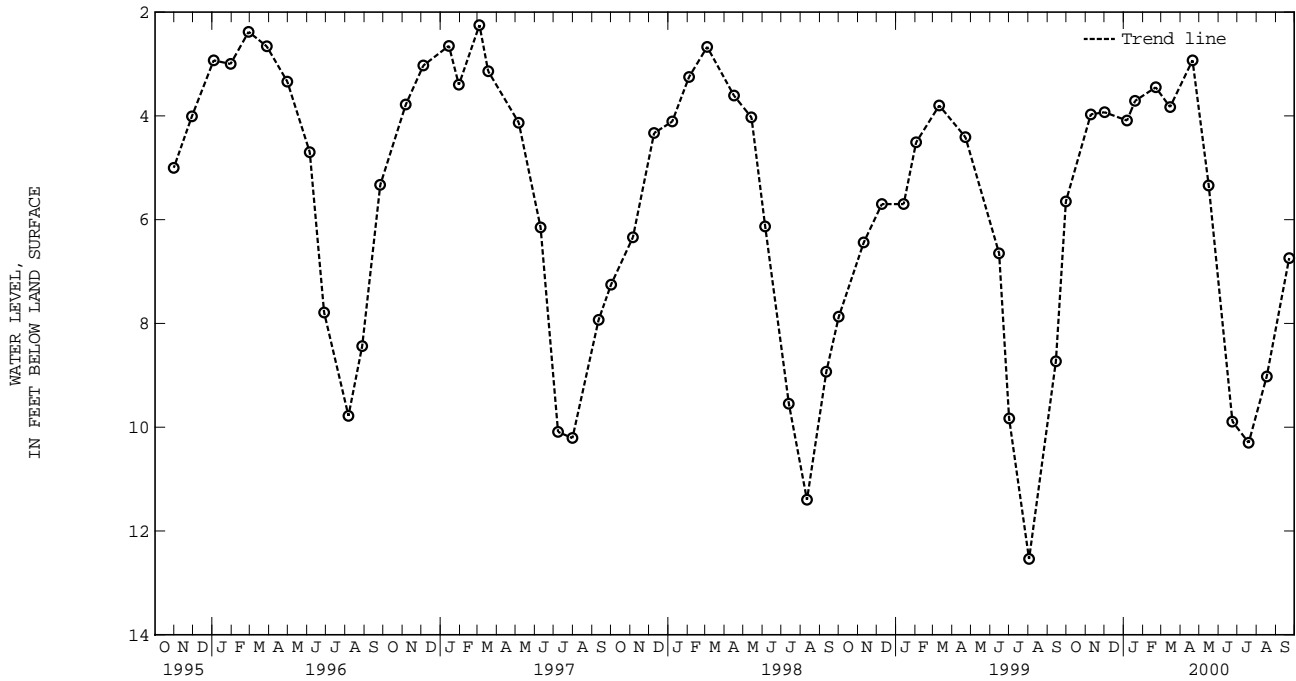
SUSSEX COUNTY--Continued

WELL NUMBER.--Qj32-17. SITE ID.--383210075035802. PERMIT NUMBER.--45428.
 LOCATION.--Lat 38°32'10", long 75°03'58", Hydrologic Unit 02060010, 0.5 mi southwest of intersection of Del. Rts. 1 and 26, Bethany Beach.
 Owner: Town of Bethany Beach.
 AQUIFER.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 400 ft; casing diameter 4 in., to 335 ft; screen diameter 4 in. from 335 to 400 ft.
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by Delaware Geological Survey personnel.
 DATUM.--Elevation of land surface is 7 ft. above sea level.
 Measuring Point: Top of casing, at land surface.
 REMARKS.--Delaware Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.
 PERIOD OF RECORD.--February 1988 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.12 ft below land surface, April 1, 1993;
 lowest measured, 12.54 ft below land surface, Aug. 2, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 09, 1999	3.97	JAN 19, 2000	3.71	APR 20, 2000	2.93	JUL 19, 2000	10.30
DEC 01	3.93	FEB 21	3.45	MAY 16	5.34	AUG 17	9.02
JAN 06, 2000	4.09	MAR 15	3.83	JUN 23	9.89	SEP 22	6.74

WATER YEAR 2000 HIGHEST 2.93 APR 20, 2000 LOWEST 10.30 JUL 19, 2000



SUSSEX COUNTY--Continued

WELL NUMBER.--Rj22-05. SITE ID.--382808075030501.

LOCATION.--Lat 38°28'08", long 75°03'05", Hydrologic Unit 02060010, at Fenwick Island State Park.

Owner: U.S. Geological Survey.

AQUIFER.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 455 ft; casing diameter 1.25 in., to 450 ft; screen diameter 2 in., from 450 to 455 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by Delaware Geological Survey personnel. Measured monthly from April 1977 to March 1980, and April 1985 to July 1987. Intermittent measurements from September 1980 to February 1985.

DATUM.--Elevation of land surface is 5 ft above sea level, from topographic map.

Measuring Point: Top of casing, 1.0 ft above land surface.

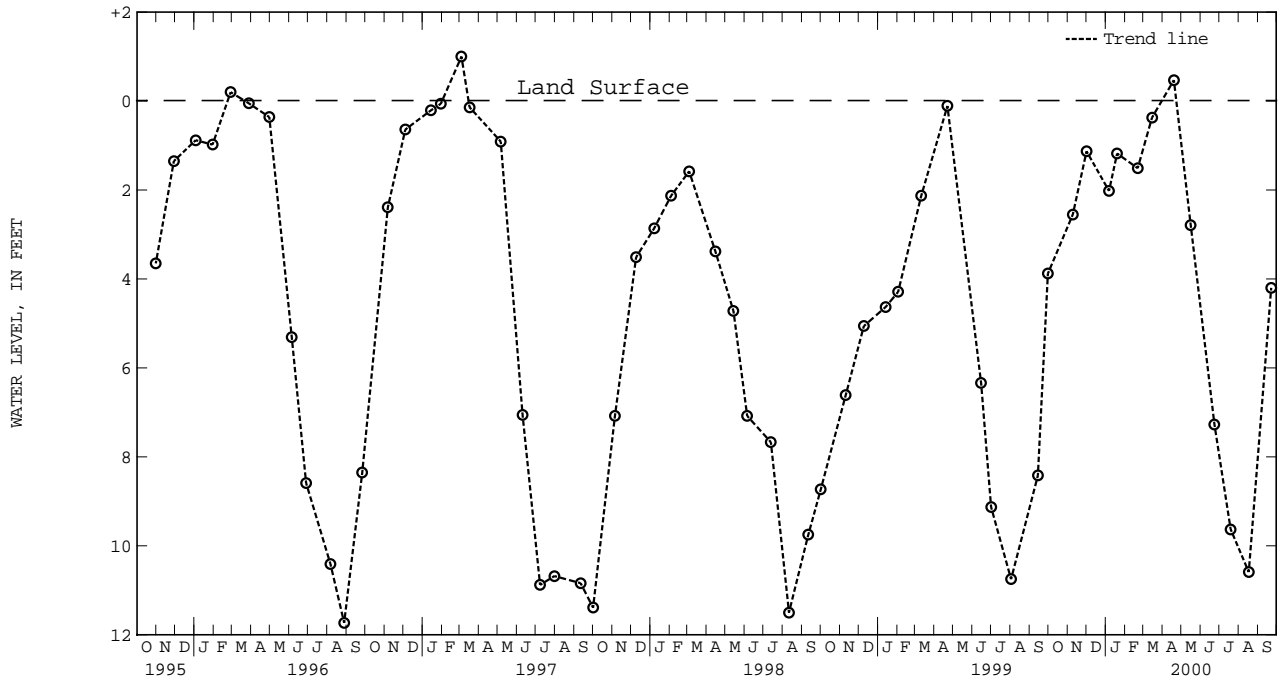
PERIOD OF RECORD.--April 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.00 ft above land surface, March 4, 1997;

lowest measured, 13.81 ft below land surface, July 30, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
(READINGS ABOVE LAND SURFACE INDICATED BY "+")

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 09, 1999	2.55	JAN 19, 2000	1.18	APR 19, 2000	+ .47	JUL 19, 2000	9.63
DEC 01	1.13	FEB 21	1.51	MAY 16	2.79	AUG 17	10.59
JAN 06, 2000	2.02	MAR 15	.37	JUN 23	7.27	SEP 22	4.20
WATER YEAR 2000 HIGHEST		+ .47 APR 19, 2000		LOWEST		10.59 AUG 17, 2000	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

SUSSEX COUNTY--Continued

WELL NUMBER.--Rj22-06. SITE ID.--382808075030502.

LOCATION.--Lat 38°28'08", long 75°03'05", Hydrologic Unit 02060010, at Fenwick Island State Park.

Owner: U.S. Geological Survey.

AQUIFER.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 295 ft; casing diameter 1.25 in., to 290 ft; screen diameter 2 in., from 290 to 295 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by Delaware Geological Survey personnel. Measured monthly from April 1977 to March 1980, and April 1985 to July 1987. Intermittent measurements from September 1980 to February 1985.

DATUM.--Elevation of land surface is 5 ft above sea level, from topographic map.

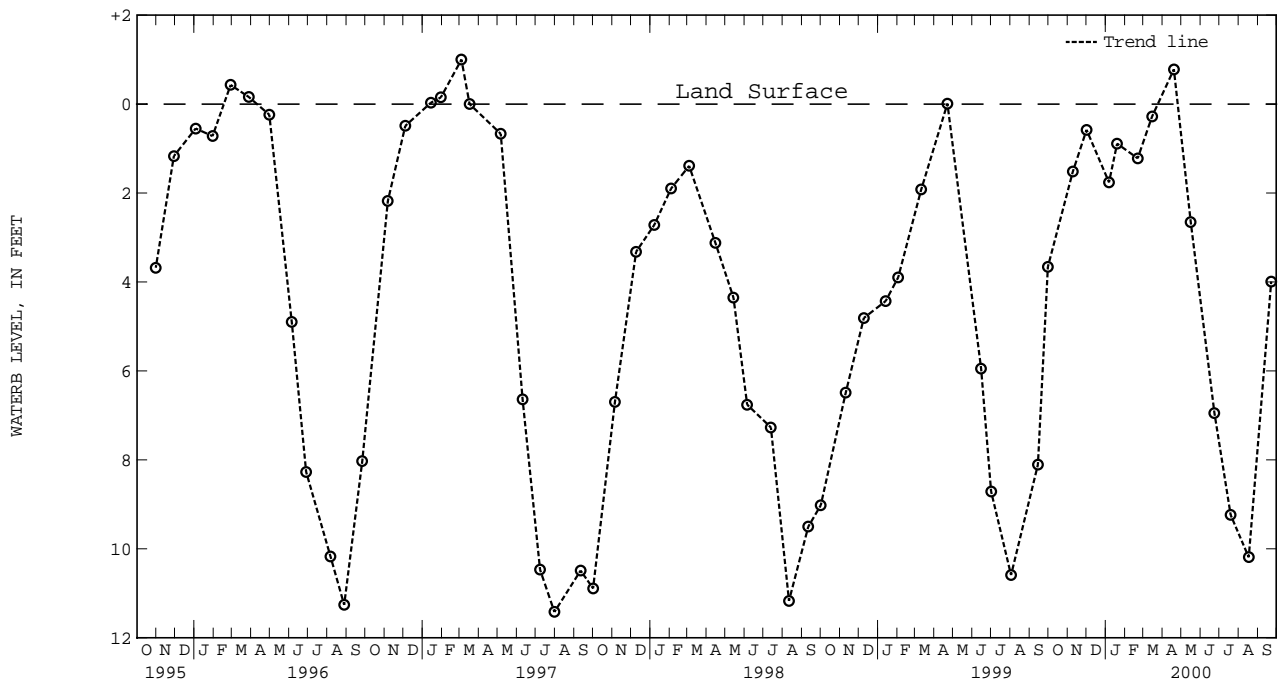
Measuring Point: Top of casing, 1.0 ft above land surface.

PERIOD OF RECORD.--April 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.00 ft above land surface, April 2, 1979, April 4, 1984, and March 4, 1997; lowest measured, 12.86 ft below land surface, July 30, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
(READINGS ABOVE LAND SURFACE INDICATED BY "+")

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 09, 1999	1.52	JAN 19, 2000	.89	APR 19, 2000	+ .78	JUL 19, 2000	9.24
DEC 01	.58	FEB 21	1.22	MAY 16	2.65	AUG 17	10.19
JAN 06, 2000	1.76	MAR 15	.28	JUN 23	6.95	SEP 22	3.99
WATER YEAR 2000 HIGHEST		+ .78 APR 19, 2000		LOWEST		10.19 AUG 17, 2000	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND

ALLEGANY COUNTY

WELL NUMBER.--AL Ah 1. SITE ID.--394024078273401.

LOCATION.--Lat 39°40'24", long 78°27'34", Hydrologic Unit 02070003, near Fifteen Mile Creek, 2.8 mi southeast of Pratt.

Owner: Green Ridge State Forest.

AQUIFER.--Jennings Formation of Upper Devonian Age. Aquifer code: 341JNGS.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, reported depth 300 ft, measured depth 114.5 ft; casing diameter 8 in. to unknown depth; open hole.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Altitude of land surface is 720 ft above sea level, from topographic map.

Measuring point: Top of sanitary seal in casing, 0.25 ft above land surface.

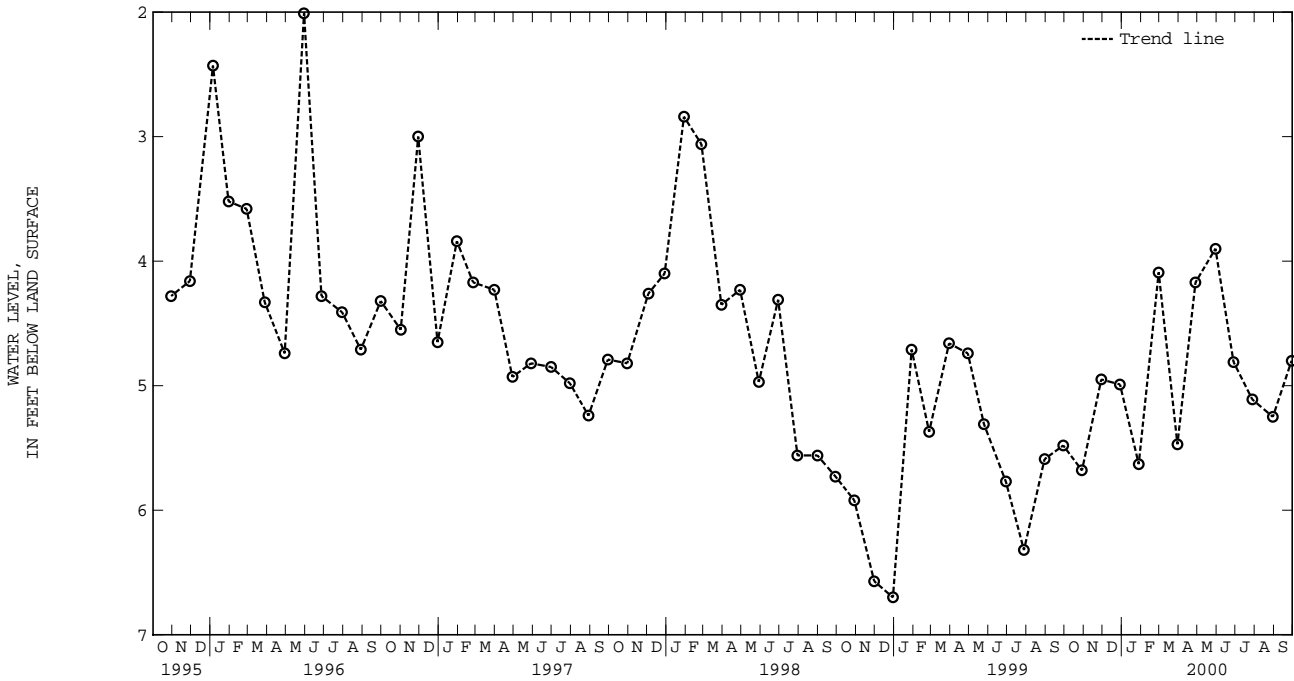
REMARKS.--Maryland Water-Level Network observation well. Water level was more than 40 ft below land surface on Nov. 19, 1969, and Feb. 12, 1970, when well was being pumped. Water levels may be affected by nearby pumping.

PERIOD OF RECORD.--December 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.80 ft below land surface, May 18, 1978; lowest measured 19.75 ft below land surface, July 17, 1968.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29, 1999	5.68	JAN 28, 2000	5.63	APR 28, 2000	4.17	JUL 28, 2000	5.11
NOV 29	4.95	FEB 29	4.09	MAY 30	3.90	AUG 30	5.25
DEC 29	4.99	MAR 30	5.47	JUN 28	4.81	SEP 29	4.80
WATER YEAR 2000 HIGHEST		3.90	MAY 30, 2000 LOWEST		5.68	OCT 29, 1999	



ALLEGANY COUNTY--Continued

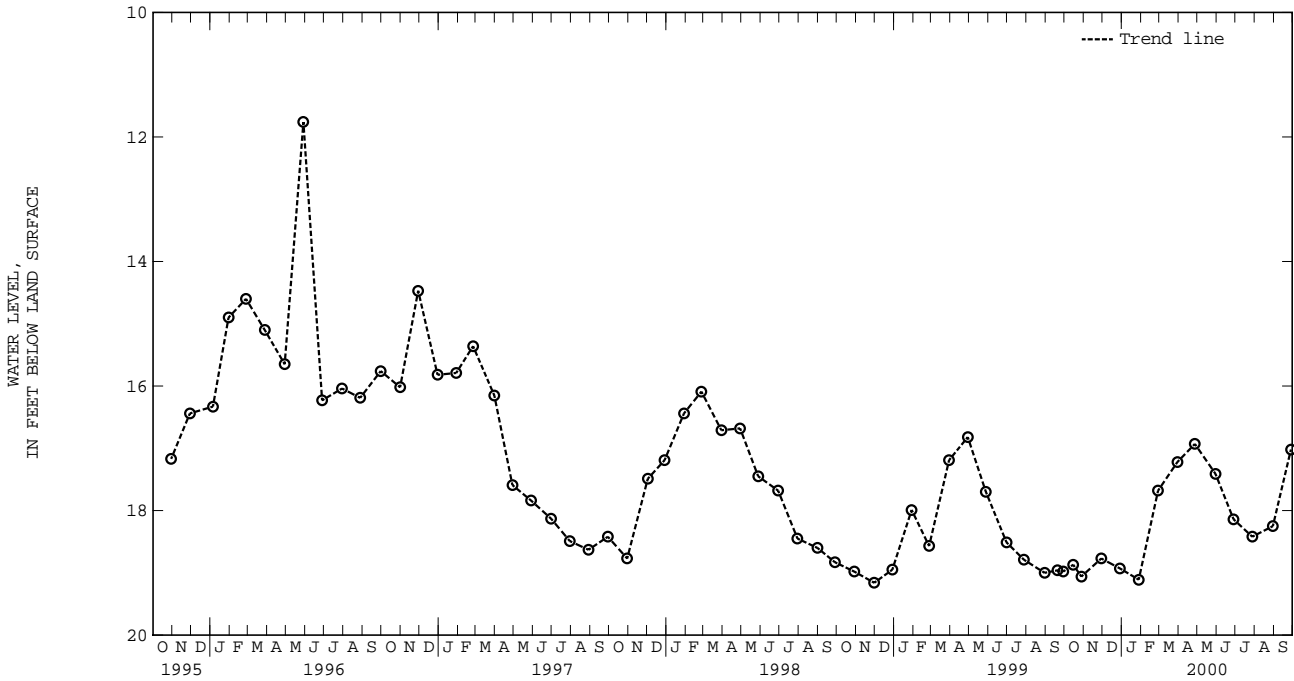
WELL NUMBER.--AL Ca 19. SITE ID.--393009079025201. PERMIT NUMBER.--AL-05-0057.
 LOCATION.--Lat 39°30'09", long 79°02'52", Hydrologic Unit 02070002, north end of Franklin.
 Owner: Carl W. Arthur.

AQUIFER.--Conemaugh Formation of Upper Pennsylvanian age. Aquifer code: 321CNMG.
 WELL CHARACTERISTICS.--Drilled, unused, water-table well, measured depth 86 ft; casing diameter 6 in., to 46 ft; open hole.
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
 DATUM.--Altitude of land surface is 1,035 ft above sea level, from topographic map.

Measuring point: Top of casing, 2.00 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well.
 PERIOD OF RECORD.--July 1974 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.88 ft below land surface, March 19, 1984;
 lowest measured, 19.30 ft below land surface, Nov. 1, 1977.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15, 1999	18.87	JAN 28, 2000	19.11	MAY 30, 2000	17.41	SEP 28, 2000	17.02
28	19.06	FEB 28	17.68	JUN 28	18.14		
NOV 29	18.77	MAR 30	17.22	JUL 28	18.42		
DEC 29	18.93	APR 27	16.93	AUG 30	18.25		
WATER YEAR 2000 HIGHEST		16.93 APR 27, 2000	LOWEST		19.11 JAN 28, 2000		



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND

ALLEGANY COUNTY--Continued

WELL NUMBER.--AL Ca 20. SITE ID.--393148079010601. PERMIT NUMBER.--AL-81-0477.
 LOCATION.--Lat 39°31'48", long 79°01'06", Hydrologic Unit 02070002, at Barton Municipal Park.
 Owner: Town of Barton.

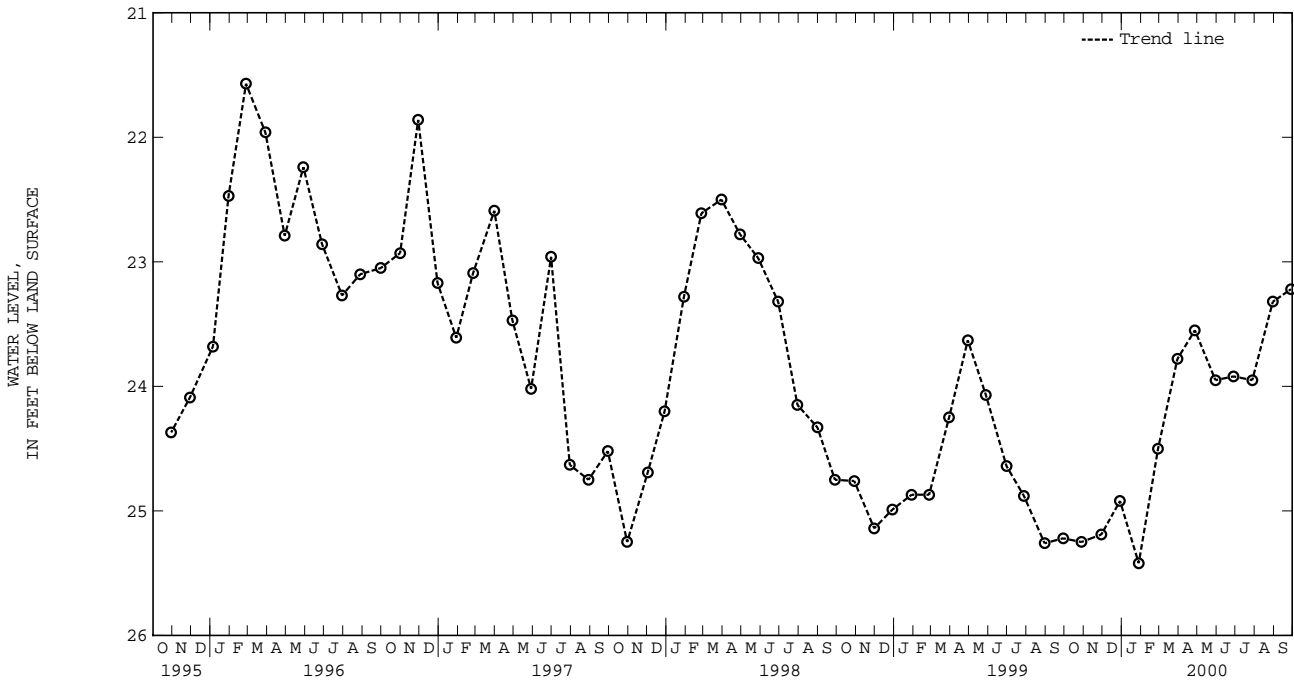
AQUIFER.--Conemaugh Formation of Upper Pennsylvanian age. Aquifer code: 321CNMG.
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 71 ft; casing diameter 8 in., to 20 ft; open hole.
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Altitude of land surface is 1,250 ft above sea level.
 Measuring Point: Top of casing, 1.70 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--March 1992 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.57 ft below land surface, Feb. 27, 1996;
 lowest measured, 26.00 ft below land surface, March 17, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28, 1999	25.25	JAN 28, 2000	25.42	APR 27, 2000	23.55	JUL 28, 2000	23.95
NOV 29	25.19	FEB 28	24.50	MAY 30	23.95	AUG 30	23.32
DEC 29	24.92	MAR 30	23.78	JUN 28	23.92	SEP 28	23.22
WATER YEAR 2000 HIGHEST		23.22	SEP 28, 2000 LOWEST		25.42	JAN 28, 2000	

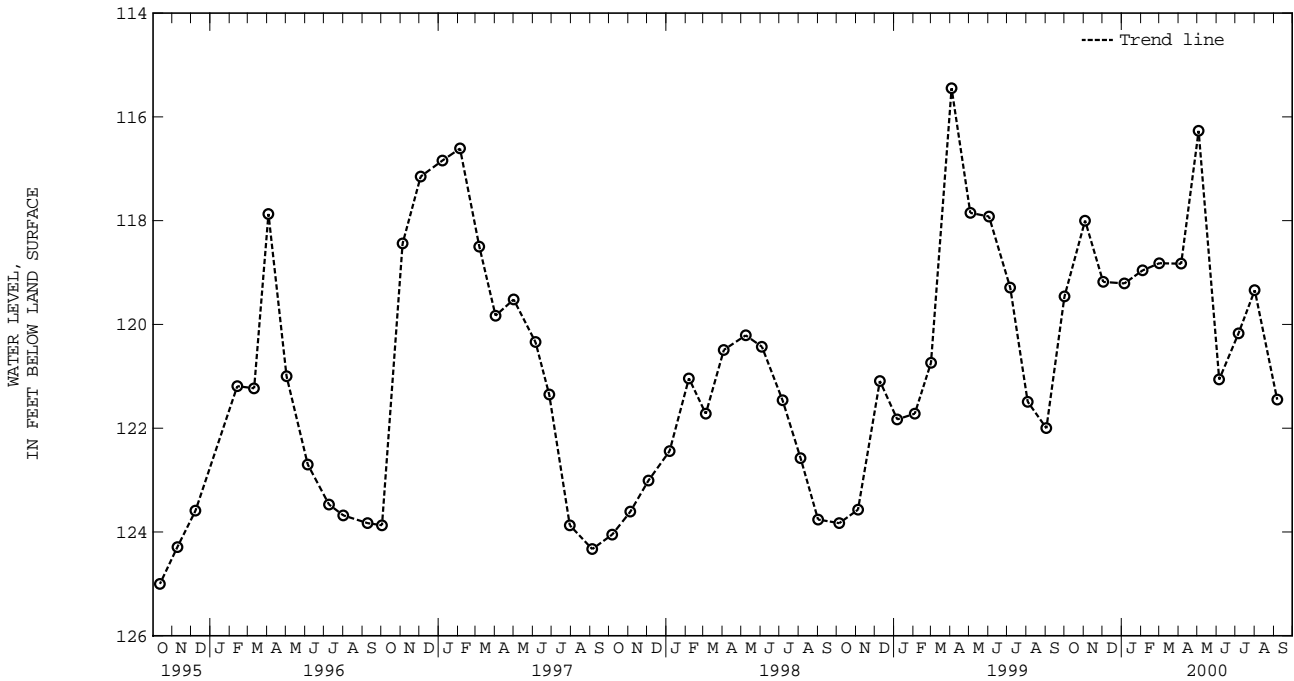


ANNE ARUNDEL COUNTY

WELL NUMBER.--AA Ac 11. SITE ID.--391101076404001. PERMIT NUMBER.--AA-00-2445.
 LOCATION.--Lat 39°11'01", long 76°40'40", Hydrologic Unit 02060003, west end of runway 15,
 Baltimore-Washington International Airport.
 Owner: Maryland Department of Transportation.
 AQUIFER.--Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.
 WELL CHARACTERISTICS.--Drilled, unused, artesian well, depth 320 ft; casing diameter 6 in., to 312 ft;
 screened from 312 to 320 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Altitude of land surface is 136.9 ft above sea level.
 Measuring point: Top of casing, 1.00 above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Well used during construction of airport. Water level
 reported by driller as 90 ft below land surface, April 23, 1948. Water levels are affected by local ground-water
 withdrawal.
 PERIOD OF RECORD.--June 1959 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 86.60 ft below land surface, March 9, 1965;
 lowest measured, 125.12 ft below land surface, Oct. 9, 1986.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01, 1999	119.46	JAN 05, 2000	119.21	APR 05, 2000	118.83	JUL 06, 2000	120.17
NOV 03	118.00	FEB 03	118.96	MAY 03	116.27	AUG 01	119.34
DEC 02	119.18	MAR 01	118.82	JUN 05	121.06	SEP 06	121.45
WATER YEAR 2000 HIGHEST		116.27	MAY 03, 2000		LOWEST		121.45
							SEP 06, 2000



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Ad 29. SITE ID.--391015076373501.

LOCATION.--Lat 39°10'15", long 76°37'35", Hydrologic Unit 02060003, near Linden Lane, Glen Burnie, near the Anne Arundel County Department of Public Works office.

Owner: Anne Arundel County Department of Public Works.

AQUIFER.--Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 500 ft; casing diameter 3 in., to 395 ft, and from 400 to 420 ft; casing diameter 2 in. from 420 to 460 ft; screened with 3 in. slotted pipe from 395 to 400 ft; screened with 2 in. slotted pipe from 460 to 500 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder from July 19, 1948 to Jan. 18, 1968.

DATUM.--Altitude of land surface is 37.0 ft above sea level.

Measuring point: Top of casing, 1.85 ft above land surface.

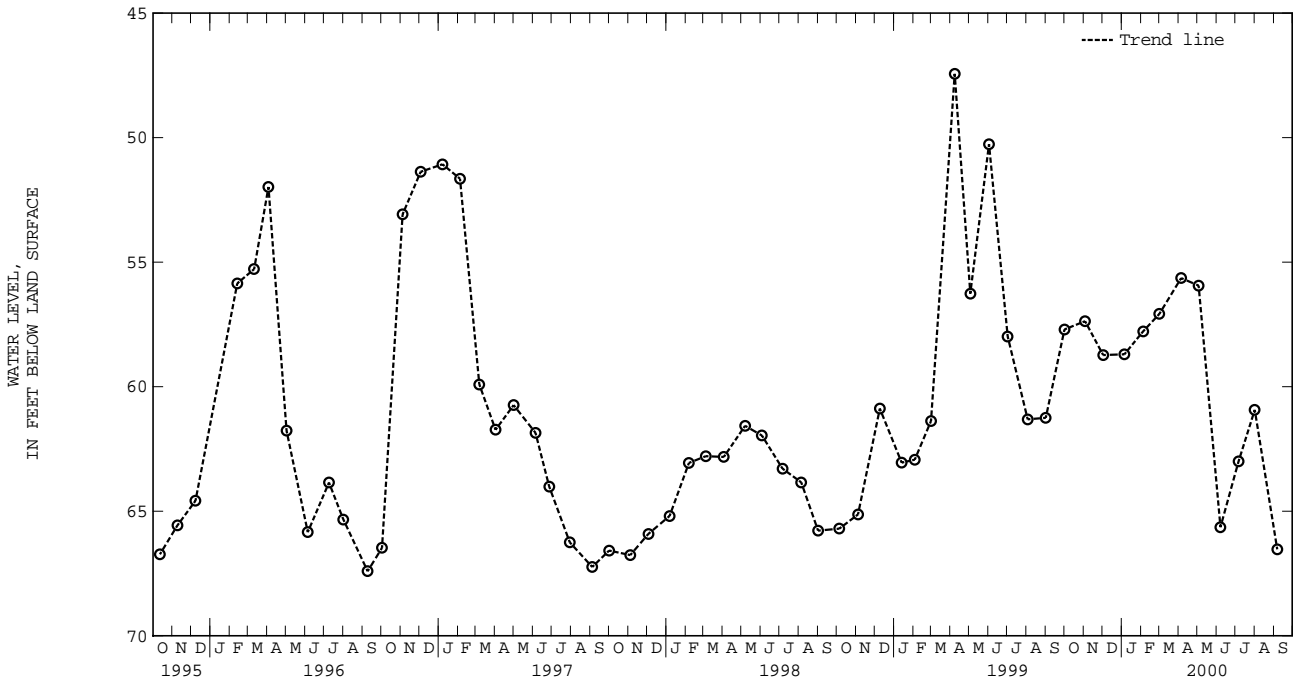
REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--June 1948 to February 1968, April 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.04 ft above land surface, Sept. 2, 1952; lowest measured, 67.41 ft below land surface, Sept. 9, 1996.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01, 1999	57.70	JAN 05, 2000	58.70	APR 05, 2000	55.64	JUL 06, 2000	63.00
NOV 03	57.37	FEB 04	57.78	MAY 03	55.94	AUG 01	60.93
DEC 02	58.73	MAR 01	57.08	JUN 07	65.64	SEP 06	66.53
WATER YEAR 2000 HIGHEST		55.64	APR 05, 2000 LOWEST		66.53	SEP 06, 2000	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Ad 90. SITE ID.--391032076385902. PERMIT NUMBER.--AA-04-0298.

LOCATION.--Lat 39°10'32", long 76°38'59", Hydrologic Unit 02060003, off Aviation Blvd., 0.5 mi north of Dorsey Road intersection.
Owner: Anne Arundel County Department of Public Works.

AQUIFER.--Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 453 ft; casing diameter 6 in., to 443 ft;
screen diameter 6 in. from 443 to 453 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder from Aug. 19, 1977 to Sept. 4, 1979. Periodic measurements from September 1979 to March 1980. Equipped with digital water-level recorder--30--minute recorder interval from March 1980 to Dec. 31, 1984, and August 1989 to current year.

DATUM.--Altitude of land surface is 77.85 ft above sea level.

Measuring Point: Top of recorder platform, 2.20 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.

Missing data due to recorder malfunction.

PERIOD OF RECORD.--April 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.87 ft above sea level, Nov. 20, 1978;

lowest measured, 49.95 ft below sea level, Sept. 27, 2000.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-30.55	-30.73	-30.48	-32.19	-34.41	-34.55	-34.40	-34.44	-32.95	-33.04	-31.84	-32.02
2	-30.38	-30.55	-31.35	-32.31	-34.29	-34.60	-34.29	-34.41	-33.01	-33.06	-31.82	-31.86
3	-30.20	-30.38	-32.31	-33.15	-32.87	-34.55	-34.25	-34.31	-32.86	-33.05	-31.76	-31.86
4	-29.97	-30.20	-33.15	-33.69	-33.56	-34.26	-34.02	-34.25	-32.86	-32.93	-31.70	-31.79
5	-29.87	-29.97	-33.69	-33.97	-34.26	-34.47	-34.11	-34.35	-32.93	-32.98	-31.66	-31.73
6	-28.37	-29.87	-33.97	-34.19	-34.46	-34.60	-34.25	-34.35	-32.98	-33.06	-31.73	-31.76
7	-28.57	-29.14	-34.19	-34.43	-34.60	-34.82	-34.14	-34.25	-32.89	-32.98	-31.61	-31.76
8	-29.14	-29.27	-33.67	-34.49	-34.82	-34.90	-34.10	-34.21	-32.98	-33.07	-31.51	-31.61
9	-29.26	-29.28	-32.75	-33.67	-34.86	-34.90	-33.96	-34.11	-32.83	-33.02	-31.38	-31.51
10	-29.16	-29.28	-32.96	-33.58	-34.67	-34.86	-33.70	-33.98	-32.73	-32.84	-31.41	-31.48
11	-29.16	-29.24	-33.58	-34.21	-34.78	-34.83	-33.75	-33.89	-32.68	-32.81	-31.24	-31.47
12	-29.20	-29.25	-34.21	-34.39	-34.82	-34.84	-33.87	-33.95	-32.81	-32.86	-31.20	-31.36
13	-28.93	-29.20	-34.39	-34.53	-34.76	-34.82	-33.10	-33.87	-32.64	-32.83	-31.36	-31.40
14	-28.93	-29.06	-34.47	-34.62	-34.60	-34.76	-33.10	-33.50	-32.48	-32.64	-31.27	-31.36
15	-29.03	-29.07	-34.62	-34.68	-34.66	-34.71	-33.50	-33.64	-32.59	-32.70	-31.20	-31.28
16	-28.89	-29.03	-34.68	-34.85	-34.65	-34.70	-33.48	-33.67	-32.52	-32.68	-30.96	-31.20
17	-28.66	-28.89	-34.85	-35.05	-34.70	-34.73	-32.97	-33.76	-32.66	-32.72	-30.92	-31.18
18	-28.66	-28.80	-35.05	-35.16	-34.71	-34.75	-32.88	-32.98	-32.36	-32.70	-31.16	-31.20
19	-28.76	-28.84	-35.16	-35.20	-34.74	-34.75	-32.98	-33.14	-32.29	-32.43	-31.03	-31.16
20	-28.62	-28.76	-35.17	-35.21	-34.58	-34.75	-33.01	-33.19	-32.41	-32.45	-30.94	-31.04
21	-28.50	-28.63	-35.21	-35.29	-34.61	-34.69	-33.19	-33.35	-32.43	-32.47	-30.78	-30.95
22	-28.28	-28.50	-31.77	-35.32	-34.68	-34.75	-33.35	-33.41	-32.41	-32.46	-30.75	-30.80
23	-28.26	-28.32	-24.79	-31.77	-34.62	-34.75	-33.35	-33.42	-32.23	-32.42	-30.67	-30.76
24	-28.31	-28.38	-23.36	-27.05	-34.65	-34.73	-33.25	-33.37	-32.18	-32.23	-30.38	-30.67
25	-28.32	-28.38	-27.05	-30.51	-34.64	-34.74	-32.96	-33.25	-32.18	-32.24	-30.29	-30.38
26	-28.20	-28.33	-30.51	-32.04	-34.42	-34.64	-33.03	-33.16	-32.24	-32.28	-30.27	-30.31
27	-28.10	-28.22	-32.04	-33.05	-34.46	-34.48	-33.16	-33.29	-32.04	-32.24	-30.06	-30.27
28	-28.12	-28.13	-33.05	-33.73	-34.35	-34.48	-33.29	-33.34	-32.03	-32.09	-30.00	-30.08
29	-28.12	-29.13	-33.73	-34.12	-34.35	-34.43	-33.32	-33.36	-32.02	-32.10	-30.08	-30.21
30	-29.13	-30.82	-34.12	-34.41	-34.35	-34.39	-33.03	-33.32	---	---	-30.16	-30.21
31	-30.82	-31.85	---	---	-34.36	-34.44	-32.99	-33.04	---	---	-30.20	-30.24
MONTH	-28.10	-31.85	-23.36	-35.32	-32.87	-34.90	-32.88	-34.44	-32.02	-33.07	-30.00	-32.02

GROUND-WATER LEVELS IN MARYLAND--Continued

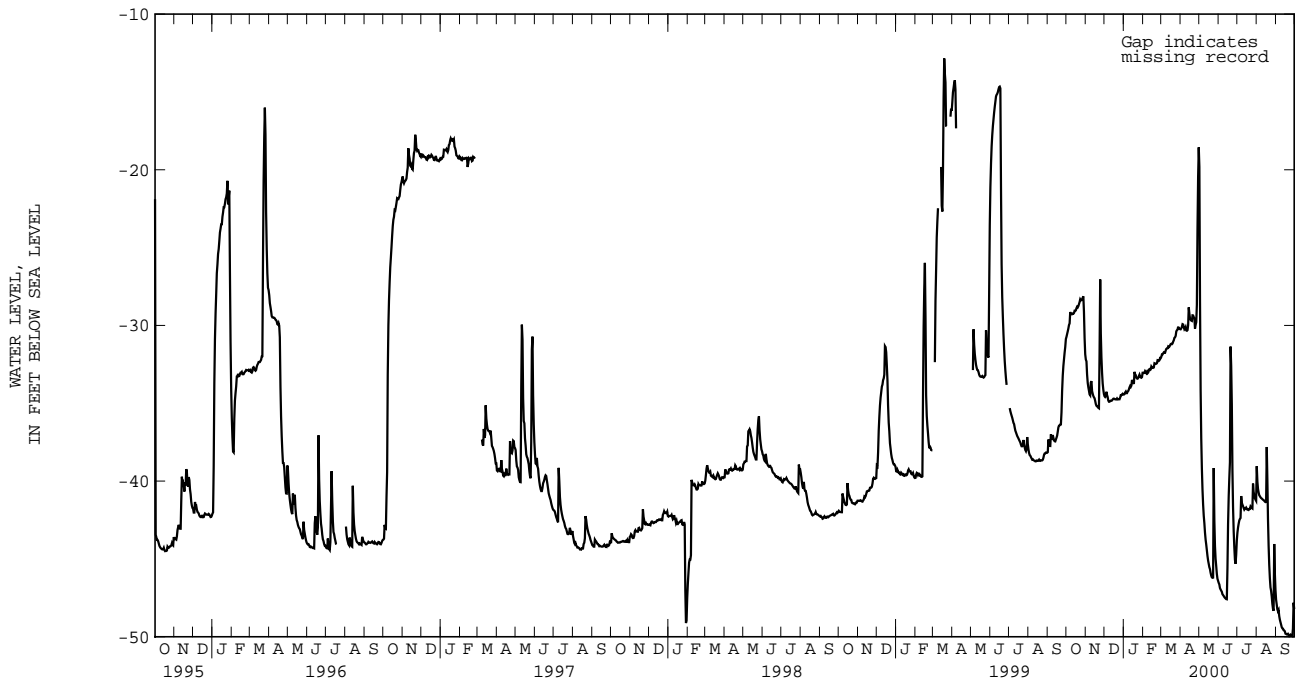
ANNE ARUNDEL COUNTY--Continued

AA Ad 90--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-30.18	-30.25	-16.77	-19.82	-46.41	-46.54	-42.97	-43.31	-36.09	-39.04	-47.00	-47.62
2	-30.08	-30.19	-19.82	-28.47	-46.54	-46.64	-42.73	-42.97	-39.04	-40.04	-47.62	-47.94
3	-29.90	-30.09	-28.47	-34.16	-46.64	-46.87	-42.53	-42.73	-40.04	-40.51	-47.94	-48.24
4	-29.84	-29.92	-34.16	-37.24	-46.87	-46.96	-42.43	-42.53	-40.51	-40.74	-47.04	-48.36
5	-29.67	-29.94	-37.24	-39.20	-46.96	-47.04	-42.37	-42.43	-40.74	-40.91	-47.46	-48.28
6	-29.83	-30.09	-39.20	-40.54	-46.99	-47.11	-39.32	-42.37	-40.91	-40.97	-48.28	-48.68
7	-30.09	-30.25	-40.54	-41.50	-47.11	-47.27	-39.90	-40.96	-40.97	-41.04	-48.68	-48.90
8	-29.66	-30.20	-41.50	-42.23	-47.27	-47.32	-40.96	-41.39	-41.04	-41.09	-48.90	-49.06
9	-29.74	-30.11	-42.23	-42.70	-47.31	-47.38	-41.39	-41.51	-41.09	-41.12	-49.06	-49.22
10	-30.11	-30.32	-42.70	-43.32	-47.38	-47.45	-41.51	-41.61	-41.10	-41.16	-49.22	-49.38
11	-30.30	-30.34	-43.32	-43.76	-47.45	-47.50	-41.61	-41.73	-41.16	-41.20	-49.38	-49.46
12	-29.79	-30.30	-43.76	-44.09	-47.49	-47.54	-41.73	-41.83	-41.20	-41.22	-49.44	-49.48
13	-27.70	-29.98	-44.09	-44.45	-47.51	-47.58	-41.73	-41.77	-41.22	-41.27	-49.46	-49.58
14	-27.94	-28.84	-44.45	-44.81	-45.59	-47.59	-41.68	-41.76	-41.27	-41.32	-49.53	-49.60
15	-28.84	-29.26	-44.81	-45.11	-42.77	-45.59	-41.63	-41.70	-41.32	-41.35	-49.51	-49.65
16	-29.26	-29.56	-45.11	-45.32	-40.97	-42.77	-41.70	-41.77	-33.56	-41.34	-49.65	-49.80
17	-29.56	-29.64	-45.32	-45.53	-39.80	-40.97	-41.77	-41.83	-34.08	-37.81	-49.80	-49.82
18	-29.62	-29.69	-45.53	-45.66	-38.79	-39.80	-41.80	-41.82	-37.81	-39.93	-49.82	-49.85
19	-27.84	-29.71	-45.66	-45.89	-31.36	-38.79	-41.77	-41.85	-39.93	-42.44	-49.72	-49.84
20	-28.51	-29.35	-45.89	-46.07	-25.62	-31.36	-41.76	-41.79	-42.44	-44.17	-49.76	-49.81
21	-29.33	-29.36	-46.07	-46.18	-29.29	-32.59	-41.52	-41.79	-44.17	-45.38	-49.74	-49.88
22	-29.36	-29.47	-46.18	-46.21	-32.59	-35.09	-41.52	-41.63	-45.38	-46.25	-49.88	-49.95
23	-29.47	-29.55	-36.70	-46.20	-35.09	-39.33	-41.63	-41.69	-46.25	-46.83	-49.82	-49.91
24	-29.55	-30.20	-33.91	-39.16	-39.33	-41.71	-41.69	-41.73	-46.17	-47.05	-49.79	-49.86
25	-29.79	-29.96	-39.16	-42.56	-41.71	-43.23	-38.22	-41.76	-46.77	-47.42	-49.78	-49.89
26	-28.49	-29.79	-42.56	-44.18	-43.23	-44.24	-39.11	-40.16	-47.42	-47.89	-49.75	-49.92
27	-23.79	-28.69	-44.18	-44.99	-44.24	-45.06	-40.16	-40.69	-47.89	-48.21	-49.48	-49.95
28	-20.46	-23.79	-44.99	-45.47	-44.75	-45.31	-40.69	-40.93	-39.53	-48.33	-47.81	-49.48
29	-18.56	-20.46	-45.47	-45.96	-43.82	-44.75	-40.91	-41.10	-40.25	-44.04	-47.04	-47.81
30	-17.37	-18.56	-45.96	-46.27	-43.31	-43.82	-41.10	-41.20	-44.04	-45.95	-47.33	-48.22
31	---	---	-46.27	-46.41	---	---	-35.67	-41.27	-45.95	-47.00	---	---
MONTH	-17.37	-30.34	-16.77	-46.41	-25.62	-47.59	-35.67	-43.31	-33.56	-48.33	-47.00	-49.95
YEAR	-16.77	-49.95										

Daily Low Water Levels



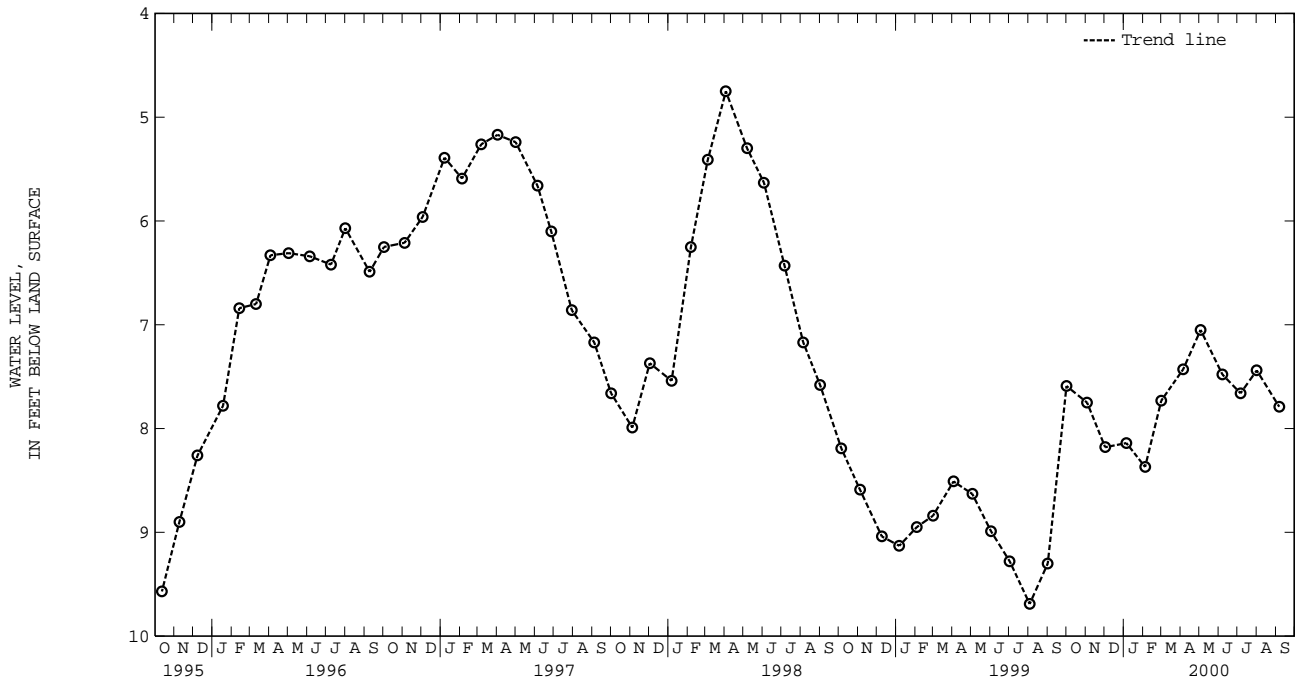
5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Ad 102. SITE ID.--391032076385904. PERMIT NUMBER.--AA-81-2641.
 LOCATION.--Lat 39°10'32", long 76°38'59", Hydrologic Unit 02060003, off Aviation Blvd., 0.5 mi north of Dorsey Road intersection.
 Owner: U.S. Geological Survey.
 AQUIFER.--Lower Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 108; casing diameter 6 in., to 80 ft; screen diameter 6 in. from 80 to 90 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from Dec. 1983 to Oct. 2, 1990.
 DATUM.--Altitude of land surface is 76.72 ft above sea level.
 Measuring Point: Top of recorder platform, 5.27 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.
 PERIOD OF RECORD.--December 1983 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.75 ft below land surface, April 3, 1998;
 lowest measured, 14.74 ft below land surface, Oct. 31, 1986, and Nov. 1, 1986.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01, 1999	7.59	JAN 05, 2000	8.14	APR 05, 2000	7.43	JUL 06, 2000	7.66
NOV 03	7.75	FEB 04	8.37	MAY 03	7.05	AUG 01	7.44
DEC 02	8.18	MAR 01	7.73	JUN 07	7.48	SEP 06	7.79
WATER YEAR 2000 HIGHEST		7.05	MAY 03, 2000 LOWEST		8.37	FEB 04, 2000	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

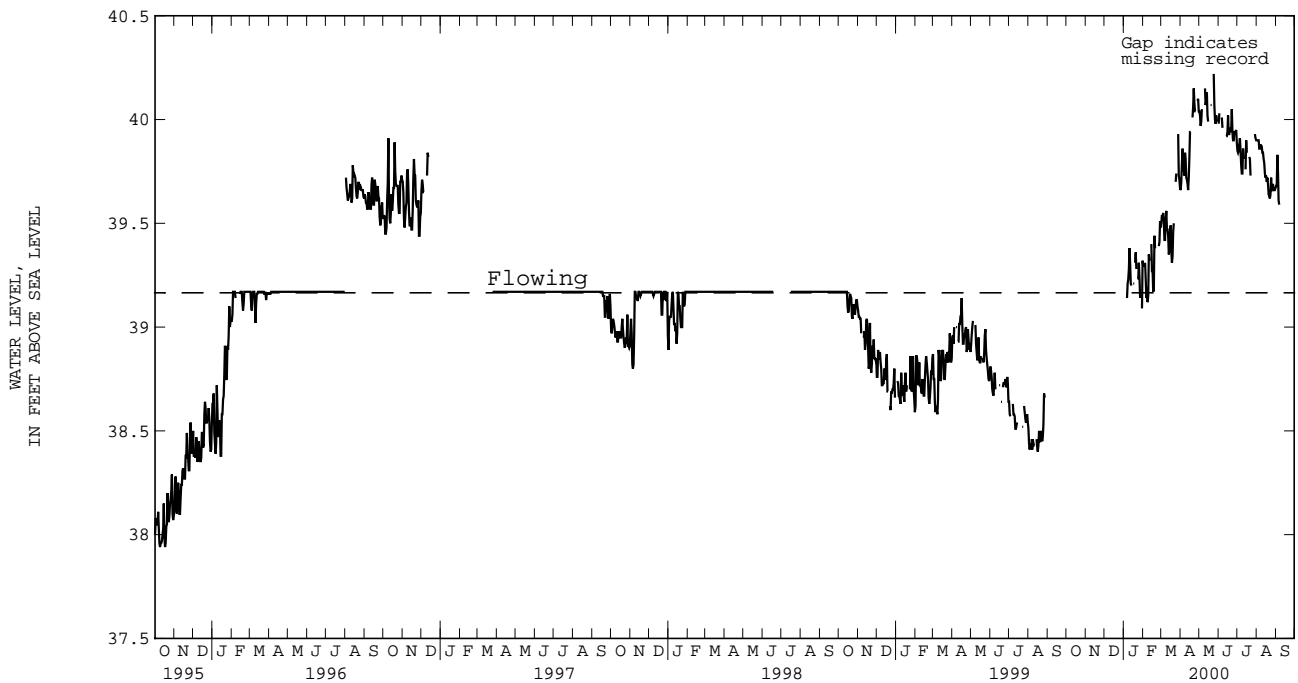
ANNE ARUNDEL COUNTY--Continued

AA Ad 109--Continued

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	39.70	39.66	40.18	40.04	40.03	39.98	39.89	39.85	39.91	39.90	39.68	39.68
2	39.79	39.70	40.19	40.02	40.09	40.03	39.85	39.84	39.91	39.90	39.84	39.68
3	39.93	39.79	40.02	39.97	---	---	39.88	39.85	39.90	39.90	39.84	39.83
4	39.99	39.86	40.05	39.99	---	---	39.92	39.88	39.90	39.90	39.84	39.75
5	39.86	39.75	40.13	40.05	---	---	39.92	39.91	39.90	39.86	39.75	39.61
6	39.94	39.77	---	---	40.09	40.01	39.91	39.85	39.88	39.86	39.61	39.59
7	39.85	39.73	---	---	40.05	39.96	39.85	39.78	39.89	39.88	---	---
8	39.95	39.84	---	---	---	---	39.78	39.74	39.89	39.87	---	---
9	39.95	39.81	---	---	---	---	39.86	39.74	39.88	39.87	---	---
10	39.81	39.72	40.23	40.15	---	---	39.88	39.86	39.88	39.84	---	---
11	39.82	39.71	40.15	40.07	---	---	39.88	39.81	39.84	39.84	---	---
12	39.83	39.69	40.17	40.09	---	---	---	---	39.84	39.81	---	---
13	39.72	39.66	40.21	40.13	39.96	39.92	---	---	39.81	39.79	---	---
14	39.82	39.72	40.13	40.02	39.94	39.92	39.90	39.76	39.79	39.74	---	---
15	39.94	39.82	40.02	39.99	40.03	39.94	39.96	39.90	39.74	39.72	---	---
16	39.95	39.94	---	---	40.03	40.02	39.95	39.84	39.78	39.73	---	---
17	40.00	39.94	---	---	40.02	39.93	---	---	39.73	39.70	---	---
18	---	---	---	---	40.07	39.93	---	---	39.77	39.72	---	---
19	---	---	40.11	40.07	40.04	39.96	---	---	39.76	39.69	---	---
20	40.06	40.01	---	---	39.96	39.94	39.84	39.82	39.69	39.64	---	---
21	40.24	40.06	---	---	40.07	39.95	39.83	39.81	39.64	39.63	---	---
22	40.23	40.15	---	---	40.07	40.05	39.81	39.73	39.64	39.62	---	---
23	40.15	40.08	---	---	40.05	39.94	---	---	39.72	39.64	---	---
24	40.08	40.04	40.24	40.22	39.94	39.90	---	---	39.72	39.72	---	---
25	40.10	40.04	40.22	40.07	39.94	39.90	---	---	39.72	39.66	---	---
26	---	---	40.07	40.00	39.98	39.94	---	---	39.69	39.66	---	---
27	---	---	40.02	39.98	39.98	39.94	---	---	39.74	39.69	---	---
28	40.11	40.09	40.10	40.02	39.95	39.94	---	---	39.74	39.66	---	---
29	40.11	40.10	40.10	39.99	39.99	39.95	39.94	39.93	39.67	39.66	---	---
30	40.10	40.04	---	---	39.99	39.89	39.93	39.91	39.67	39.66	---	---
31	---	---	---	---	---	---	39.91	39.90	39.68	39.67	---	---
MONTH	---	---	---	---	---	---	---	---	39.91	39.62	---	---

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Bd 91. SITE ID.--390950076391101. PERMIT NUMBER.--AA-04-2029.

LOCATION.--Lat 39°09'50", long 76°39'11", Hydrologic Unit 02060003, .3 mi southeast of the intersection of Dorsey Road and Baltimore Annapolis Blvd., in the median of MD Route 176, Glen Burnie.

Owner: Anne Arundel County Department of Public Works.

AQUIFER.--Lower Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.

WELL CHARACTERISTICS.--Drilled, artesian, observation well, depth 160 ft; casing diameter 6 in., to 119 ft; casing diameter 4 in. from 119 to 155 ft; screen diameter 2 in. from 155 to 160 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital recorder from April 1981 to March 1986.

DATUM.--Altitude of land surface is 82.63 ft above sea level.

Measuring Point: Top of shelter platform, 3.25 ft above land surface.

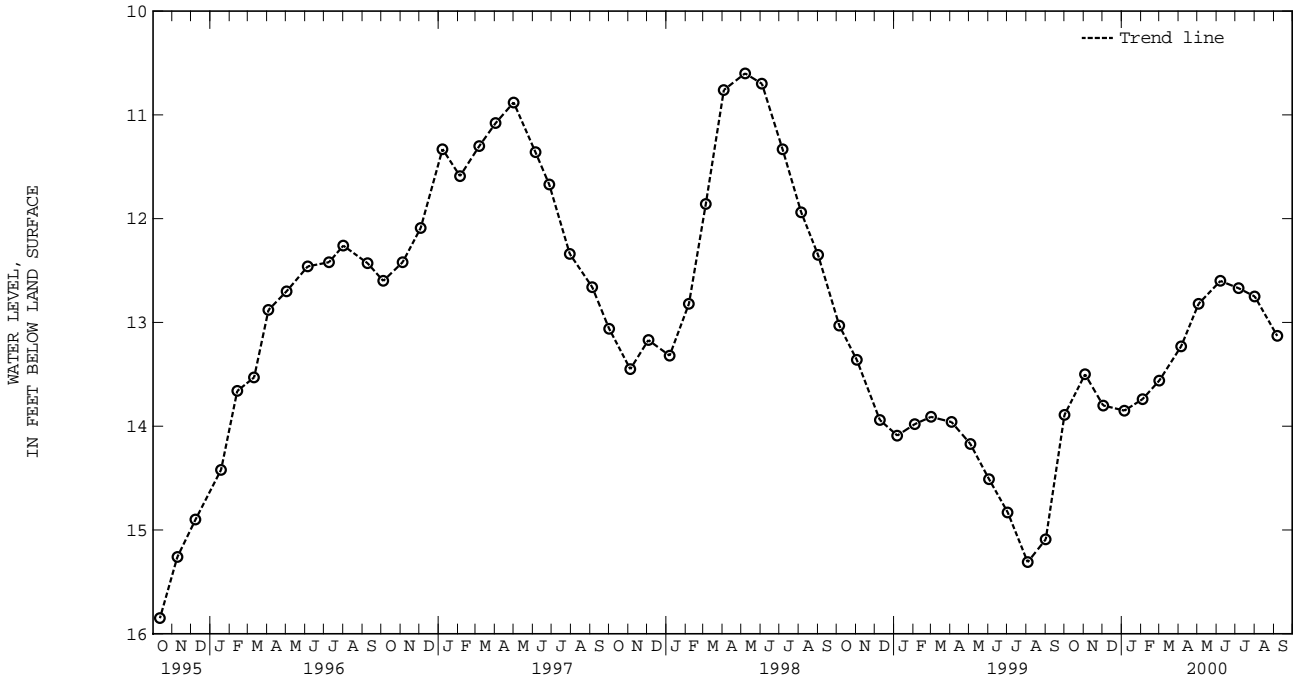
REMARKS.--Maryland Water-Level Network observation well. Water levels were affected by local ground-water withdrawal up to May 1995; when the nearby pumping station discontinued ground-water withdrawal from the Patapsco aquifer.

PERIOD OF RECORD.--March 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.60 ft below land surface, May 7, 1998; lowest measured, 75.20 ft below land surface, Sept. 1, 1982.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01, 1999	13.89	JAN 05, 2000	13.85	APR 05, 2000	13.23	JUL 06, 2000	12.67
NOV 03	13.50	FEB 03	13.74	MAY 03	12.82	AUG 01	12.75
DEC 02	13.80	MAR 01	13.56	JUN 07	12.60	SEP 06	13.13
WATER YEAR 2000 HIGHEST		12.60	JUN 07, 2000 LOWEST		13.89	OCT 01, 1999	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Bd 152. SITE ID.--390821076365401. PERMIT NUMBER.--AA-81-3463.
 LOCATION.--Lat 39°08'21", Long 76°36'54", Hydrologic Unit 02060003, 100 ft north of MD Rt 100, 0.2 mi southeast of the intersection of Oakwood Road and Funke Road, at Woodside Elementary School.
 Owner: U.S. Geological Survey.
 AQUIFER.--Lower Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 103 ft; casing diameter 6 in., to 90 ft; screen diameter 4 in. from 90 to 100 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from March 14, 1985 to current year.
 DATUM.--Altitude of land surface is 53.29 ft above sea level.
 Measuring Point: Top of recorder platform, 3.00 ft above land surface.
 REMARKS.--Anne Arundel Co. observation well network. Water levels before Feb. 23, 1986 are not currently available. Water levels are affected by local ground-water withdrawal.
 PERIOD OF RECORD.--March 1985 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.98 ft above sea level, April 14, 1994; lowest measured, 19.88 ft above sea level, Aug. 21, 1987.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	23.46	22.89	23.21	23.16	22.99	22.92	22.97	22.91	23.38	23.31	23.67	23.43
2	23.14	22.75	23.50	23.20	23.01	22.95	23.09	22.96	23.31	23.19	23.66	23.52
3	22.75	22.62	23.44	23.00	23.05	22.99	23.18	23.09	23.39	23.21	23.55	23.50
4	22.75	22.65	23.02	22.87	23.07	22.96	23.38	23.18	23.40	23.30	23.54	23.51
5	22.72	22.61	22.93	22.84	23.09	22.98	23.36	22.96	23.30	23.18	23.55	23.45
6	22.67	22.59	23.00	22.93	23.20	23.09	23.13	22.90	23.19	23.07	23.45	23.29
7	22.59	22.47	22.98	22.91	23.09	22.87	23.25	23.13	23.24	23.15	23.44	23.27
8	22.58	22.48	22.95	22.89	22.88	22.84	23.21	23.13	23.16	23.03	23.51	23.44
9	22.63	22.58	23.02	22.91	22.96	22.85	23.39	23.21	23.34	23.10	23.62	23.51
10	22.84	22.63	23.09	23.01	23.22	22.96	23.62	23.38	23.64	23.32	23.58	23.38
11	22.82	22.62	23.07	22.77	23.12	22.97	23.53	23.29	23.66	23.40	23.59	23.38
12	22.62	22.56	22.91	22.77	23.03	22.98	23.29	23.17	23.40	23.22	23.65	23.39
13	22.87	22.62	23.01	22.91	23.09	23.01	23.51	23.19	23.38	23.21	23.39	23.25
14	22.87	22.62	23.19	23.01	23.31	23.09	23.19	22.94	23.58	23.38	23.35	23.28
15	22.63	22.56	23.18	23.04	23.21	23.09	23.10	22.93	23.49	23.19	23.41	23.35
16	22.71	22.62	23.20	23.00	23.17	23.06	23.37	23.10	23.40	23.23	23.64	23.41
17	22.92	22.71	23.00	22.81	23.07	22.98	23.35	23.19	23.88	23.30	23.70	23.29
18	22.93	22.63	22.81	22.74	23.03	22.92	23.36	23.22	23.70	23.54	23.29	23.18
19	22.63	22.55	22.84	22.77	22.97	22.92	23.41	23.36	23.74	23.47	23.33	23.19
20	23.57	22.60	22.93	22.84	23.17	22.96	23.57	23.38	23.47	23.32	23.41	23.33
21	24.30	23.57	22.91	22.82	23.17	23.01	23.44	23.22	23.32	23.20	23.60	23.39
22	24.72	24.30	22.87	22.81	23.06	22.96	23.22	23.12	23.24	23.21	23.63	23.49
23	24.79	24.72	22.87	22.82	23.10	22.96	23.23	23.14	23.31	23.22	23.55	23.49
24	24.75	24.67	23.06	22.86	23.06	23.01	23.33	23.23	23.44	23.31	23.60	23.54
25	24.69	24.61	23.00	22.94	23.06	22.97	23.66	23.33	23.47	23.41	23.75	23.60
26	24.84	24.69	23.30	22.96	23.31	23.06	23.56	23.28	23.41	23.36	23.77	23.71
27	24.79	24.74	23.50	23.30	23.25	23.16	23.28	23.07	23.56	23.36	23.99	23.73
28	24.77	24.65	23.74	23.49	23.28	23.17	23.07	23.00	23.59	23.46	24.04	23.85
29	24.65	23.59	23.60	23.10	23.28	23.10	23.06	22.99	23.46	23.39	23.85	23.56
30	23.59	23.26	23.10	22.91	23.18	23.11	23.39	23.06	---	---	23.58	23.54
31	23.26	23.18	---	---	23.12	22.97	23.45	23.34	---	---	23.54	23.44
MONTH	24.84	22.47	23.74	22.74	23.31	22.84	23.66	22.90	23.88	23.03	24.04	23.18

GROUND-WATER LEVELS IN MARYLAND--Continued

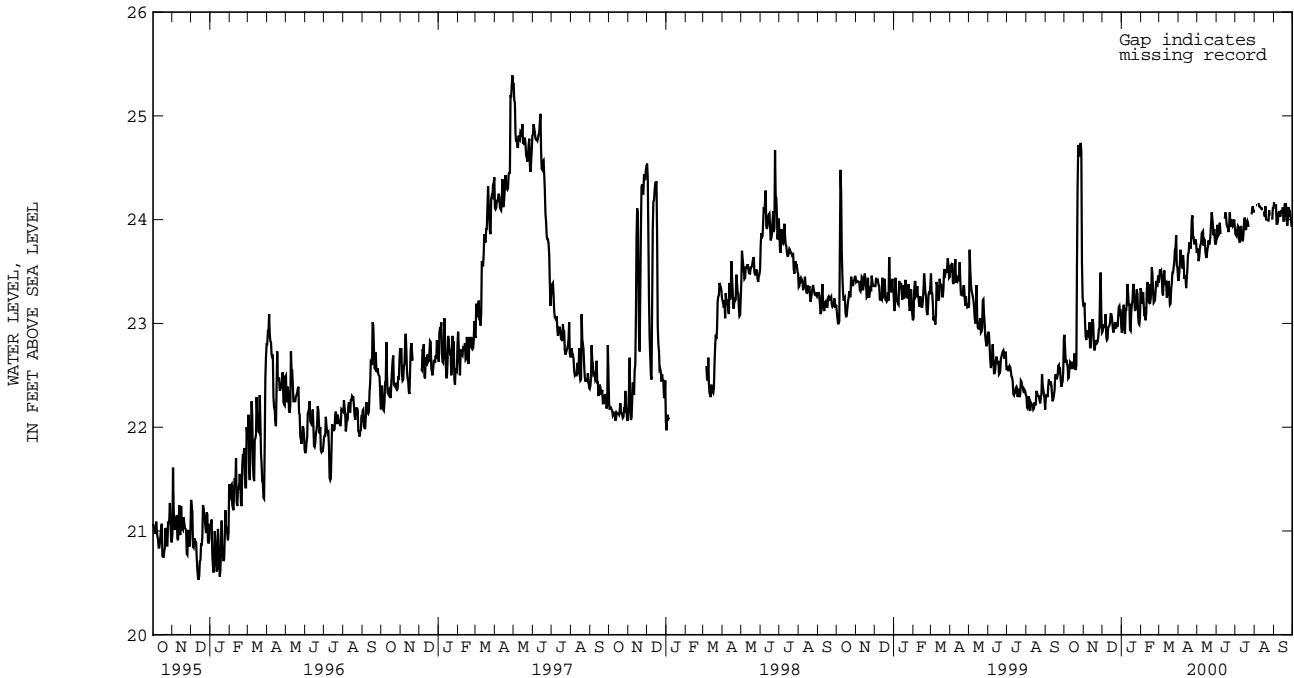
ANNE ARUNDEL COUNTY--Continued

AA Bd 152--Continued

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	23.49	23.41	23.88	23.70	23.95	23.84	23.94	23.86	---	---	24.30	24.17
2	23.58	23.49	23.92	23.72	24.00	23.95	23.90	23.85	---	---	---	---
3	23.75	23.58	23.72	23.60	23.99	23.84	23.90	23.84	24.20	24.14	---	---
4	23.84	23.71	23.73	23.64	23.89	23.85	23.99	23.90	---	---	24.24	24.15
5	23.71	23.59	23.81	23.72	23.97	23.87	23.99	23.94	---	---	24.15	23.96
6	23.77	23.61	23.84	23.76	24.03	23.97	23.98	23.93	---	---	24.05	23.96
7	23.66	23.53	23.88	23.77	23.98	23.86	23.93	23.82	24.19	24.16	24.07	23.98
8	23.80	23.66	23.93	23.87	---	---	23.88	23.78	24.19	24.13	24.12	24.06
9	23.81	23.59	23.95	23.88	---	---	23.97	23.87	24.20	24.13	24.14	24.08
10	23.59	23.43	23.97	23.89	---	---	24.00	23.94	24.20	24.12	24.11	24.05
11	23.60	23.45	23.89	23.75	---	---	23.95	23.86	24.15	24.11	24.09	24.03
12	23.62	23.44	23.89	23.81	---	---	23.88	23.80	24.14	24.11	24.17	24.09
13	23.44	23.34	23.89	23.80	---	---	23.87	23.80	24.11	24.09	24.18	24.07
14	23.53	23.43	23.81	23.69	24.26	24.01	23.99	23.87	---	---	24.23	24.07
15	23.69	23.53	23.70	23.64	24.16	24.07	24.23	23.99	---	---	24.26	24.12
16	23.72	23.67	23.73	23.64	24.15	24.03	24.23	24.02	24.14	24.08	24.12	23.99
17	23.78	23.68	23.76	23.71	24.03	23.95	24.02	23.92	24.19	24.03	24.31	23.99
18	24.04	23.78	23.85	23.74	24.04	23.93	24.09	23.90	24.19	24.13	24.34	24.15
19	23.93	23.76	23.86	23.80	24.04	23.92	24.08	23.97	24.13	24.01	24.27	24.15
20	23.81	23.72	23.81	23.76	23.95	23.88	24.07	23.99	24.01	23.99	24.21	24.15
21	24.00	23.81	23.85	23.79	24.10	23.95	24.02	23.97	---	---	24.22	24.03
22	24.24	24.00	23.99	23.85	24.15	24.07	24.00	23.93	---	---	24.03	23.94
23	24.22	24.04	24.07	23.97	24.09	23.96	---	---	24.09	23.98	24.14	24.00
24	24.04	23.83	24.15	24.07	23.97	23.93	---	---	24.12	24.09	24.18	24.12
25	23.90	23.83	24.15	24.01	24.01	23.96	---	---	24.09	24.04	24.27	24.07
26	23.88	23.77	24.14	23.94	24.03	24.00	---	---	---	---	24.31	24.09
27	23.81	23.77	23.94	23.85	24.02	23.94	24.18	24.05	---	---	24.09	24.03
28	23.85	23.81	24.00	23.91	24.02	23.95	24.27	24.11	---	---	24.08	24.01
29	23.85	23.78	24.02	23.80	24.06	24.00	24.27	24.13	24.29	24.00	24.01	23.94
30	23.80	23.68	23.84	23.76	24.03	23.93	24.16	24.07	24.27	24.11	24.03	23.94
31	---	---	23.86	23.78	---	---	24.25	24.09	24.37	24.11	---	---
MONTH	24.24	23.34	24.15	23.60	24.26	23.84	24.27	23.78	24.37	23.98	24.34	23.94
YEAR	24.84	22.47										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Bd 155. SITE ID.--390938076383701. PERMIT NUMBER.--AA-81-3460.
 LOCATION.--Lat 39°09'38", long 76°38'37", Hydrologic Unit 02060003, 200 ft off MD Rt. 3, 0.4 mi south of MD Rt. 176 intersection, off Stewart Avenue near bike trail.
 Owner: U.S. Geological Survey.
 AQUIFER.--Lower Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 159 ft; casing diameter 6 in., to 145 ft. screen diameter 4 in. from 145 to 155 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from Oct. 23, 1984 to current year.
 DATUM.--Altitude of land surface is 57.50 ft above sea level.
 Measuring Point: Top of recorder platform, 2.50 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal. Missing data due to recorder malfunction.
 PERIOD OF RECORD.--October 1984 to current year
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 49.73 ft above sea level, April 9, 1998; lowest measured, 34.54 ft above sea level, Oct. 10, 1986.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	47.97	47.93	48.09	48.02	47.91	47.82	47.82	47.78	47.92	47.87	48.20	48.06
2	47.95	47.91	48.39	48.09	47.92	47.87	47.92	47.82	47.87	47.77	48.17	48.05
3	47.96	47.90	48.23	47.93	47.94	47.90	47.91	47.86	47.98	47.79	48.12	48.04
4	48.05	47.96	47.93	47.87	47.94	47.86	48.09	47.91	47.94	47.84	48.14	48.07
5	48.02	47.97	47.99	47.89	47.97	47.86	48.01	47.74	47.84	47.75	48.12	48.00
6	48.04	47.96	48.07	47.99	48.01	47.93	47.87	47.74	47.79	47.66	48.00	47.94
7	47.96	47.86	48.02	47.94	47.93	47.78	47.96	47.86	47.86	47.75	48.11	47.94
8	48.00	47.90	47.99	47.95	47.80	47.77	47.93	47.86	47.76	47.64	48.14	48.08
9	48.03	48.00	48.06	47.98	47.89	47.79	48.02	47.93	47.94	47.76	48.20	48.12
10	48.16	48.01	48.10	48.04	48.07	47.89	48.23	48.00	47.99	47.90	48.12	47.98
11	48.12	47.97	48.06	47.83	47.90	47.84	48.06	47.86	48.04	47.82	48.21	47.98
12	48.02	47.94	48.00	47.83	47.87	47.83	47.89	47.79	47.82	47.76	48.23	47.93
13	48.22	48.02	48.02	48.00	47.91	47.87	48.09	47.77	48.01	47.82	47.96	47.88
14	48.22	47.94	48.18	48.02	48.10	47.90	---	---	48.14	47.94	48.05	47.96
15	47.98	47.93	---	---	48.04	47.96	---	---	47.94	47.78	48.09	48.02
16	48.07	47.98	---	---	48.05	47.95	48.08	47.87	48.02	47.81	48.27	48.08
17	48.21	48.07	47.93	47.83	47.95	47.90	47.87	47.77	47.81	47.70	48.30	47.87
18	48.21	47.91	47.85	47.81	47.94	47.89	48.00	47.83	48.12	47.77	47.95	47.86
19	47.97	47.88	47.90	47.83	47.90	47.87	48.00	47.97	48.16	47.94	48.07	47.95
20	48.09	47.97	47.97	47.90	48.09	47.89	48.12	47.94	47.96	47.91	48.09	48.05
21	48.14	48.06	47.92	47.87	48.04	47.91	47.94	47.80	47.92	47.86	48.24	48.08
22	48.29	48.14	47.87	47.84	47.93	47.87	47.80	47.75	47.94	47.89	48.27	48.21
23	48.23	48.08	47.89	47.84	48.00	47.87	---	---	48.00	47.91	48.30	48.23
24	48.08	47.97	47.91	47.87	47.94	47.85	---	---	48.07	47.99	48.32	48.27
25	48.02	47.94	47.90	47.87	47.95	47.84	48.19	47.96	48.06	47.95	48.42	48.31
26	48.11	48.01	48.06	47.90	48.15	47.95	48.01	47.82	47.98	47.91	48.41	48.35
27	48.07	47.95	48.05	47.96	48.02	47.95	47.82	47.71	48.15	47.98	48.55	48.35
28	48.00	47.95	47.96	47.85	48.07	47.95	47.71	47.70	48.15	48.02	48.57	48.39
29	48.02	48.00	47.89	47.84	48.04	47.89	47.75	47.70	48.06	47.98	48.39	48.26
30	48.00	47.97	47.84	47.82	47.96	47.89	48.03	47.75	---	---	48.33	48.26
31	48.08	47.99	---	---	47.89	47.79	48.04	47.90	---	---	48.29	48.25
MONTH	48.29	47.86	48.39	47.81	48.15	47.77	48.23	47.70	48.16	47.64	48.57	47.86

GROUND-WATER LEVELS IN MARYLAND--Continued

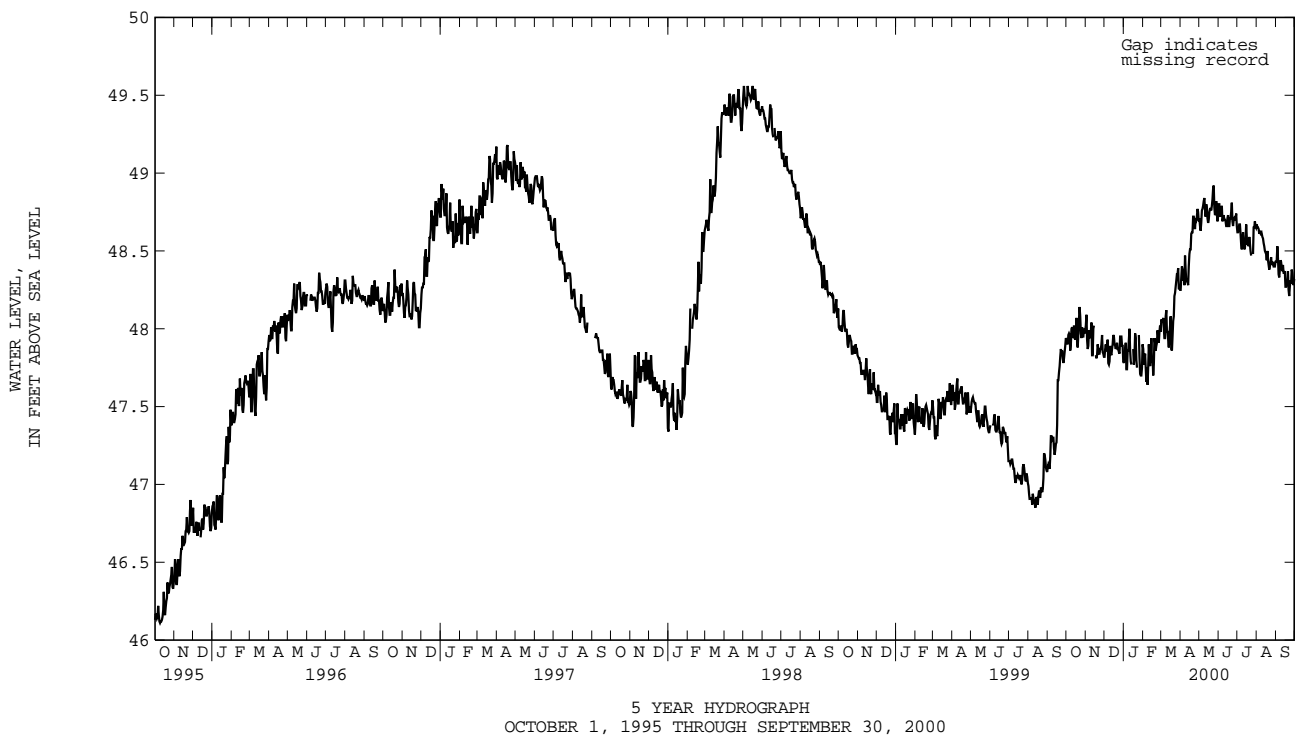
ANNE ARUNDEL COUNTY--Continued

AA Bd 155--Continued

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	48.33	48.25	48.89	48.71	48.84	48.80	48.66	48.62	48.71	48.67	48.47	48.43
2	48.41	48.33	48.88	48.66	48.89	48.80	48.66	48.62	48.69	48.65	48.55	48.44
3	48.53	48.40	48.71	48.63	48.83	48.72	48.68	48.63	48.69	48.65	48.58	48.53
4	48.58	48.38	48.78	48.68	48.79	48.73	48.73	48.67	48.67	48.64	48.57	48.45
5	48.38	48.31	48.83	48.76	48.82	48.75	48.70	48.67	48.65	48.61	48.45	48.35
6	48.53	48.36	48.83	48.77	48.89	48.79	48.67	48.61	48.67	48.62	48.38	48.33
7	48.47	48.28	48.86	48.79	48.79	48.69	48.63	48.54	48.68	48.63	48.46	48.38
8	48.56	48.47	48.87	48.82	48.77	48.71	48.57	48.51	48.64	48.60	48.49	48.44
9	48.51	48.38	48.87	48.84	48.77	48.73	48.67	48.57	48.67	48.61	48.47	48.43
10	48.38	48.30	48.91	48.77	48.75	48.70	48.69	48.62	48.65	48.59	48.44	48.39
11	48.47	48.32	48.80	48.72	48.74	48.70	48.62	48.55	48.61	48.58	48.43	48.37
12	48.50	48.30	48.88	48.80	48.72	48.69	48.56	48.51	48.59	48.55	48.48	48.41
13	48.40	48.28	48.89	48.77	48.72	48.66	48.57	48.52	48.57	48.53	48.46	48.36
14	48.48	48.40	48.77	48.71	48.73	48.66	48.68	48.57	48.55	48.50	48.48	48.36
15	48.57	48.48	48.76	48.68	48.80	48.71	48.74	48.67	48.54	48.49	48.51	48.37
16	48.59	48.51	48.80	48.70	48.79	48.73	48.67	48.59	48.58	48.48	48.37	48.27
17	48.61	48.51	48.79	48.75	48.74	48.66	48.59	48.54	48.51	48.44	48.33	48.27
18	48.67	48.61	48.87	48.77	48.81	48.66	48.59	48.56	48.55	48.50	48.32	48.29
19	48.66	48.62	48.85	48.77	48.79	48.71	48.62	48.53	48.50	48.44	48.48	48.31
20	48.73	48.62	48.79	48.76	48.75	48.71	48.63	48.59	48.44	48.41	48.41	48.37
21	48.84	48.72	48.84	48.79	48.87	48.75	48.60	48.55	48.41	48.38	48.44	48.25
22	48.79	48.72	48.92	48.83	48.86	48.81	48.57	48.50	48.44	48.40	48.27	48.21
23	48.72	48.69	48.98	48.90	48.81	48.69	48.50	48.47	48.51	48.43	48.38	48.27
24	48.71	48.64	49.00	48.92	48.70	48.66	---	---	48.50	48.46	48.41	48.31
25	48.75	48.71	48.93	48.78	48.74	48.70	---	---	48.46	48.41	48.47	48.29
26	48.74	48.70	48.78	48.73	48.76	48.71	48.69	48.48	48.46	48.42	48.53	48.38
27	48.77	48.72	48.82	48.74	48.75	48.70	48.69	48.65	48.50	48.43	48.42	48.36
28	48.79	48.77	48.87	48.82	48.76	48.70	48.72	48.65	48.47	48.40	48.41	48.32
29	48.79	48.75	48.87	48.74	48.80	48.74	48.74	48.69	48.45	48.40	48.32	48.28
30	48.77	48.69	48.74	48.69	48.74	48.66	48.71	48.66	48.46	48.40	48.39	48.32
31	---	---	48.81	48.72	---	---	48.72	48.65	48.46	48.43	---	---
MONTH	48.84	48.25	49.00	48.63	48.89	48.66	48.74	48.47	48.71	48.38	48.58	48.21
YEAR	49.00	47.64										

Daily Low Water Levels



ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Bd 156. SITE ID.--390922076371001. PERMIT NUMBER.--AA-81-3462.
 LOCATION.--Lat 39°09'22", long 76°37'10", Hydrologic Unit 02060003, off Wardour Road, 0.3 mi north of Aquahart Road intersection, next to the Baltimore and Annapolis bike trail.
 Owner: U.S. Geological Survey.
 AQUIFER.--Lower Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 173 ft; casing diameter 6 in., to 160 ft; casing diameter 4 in. from 170 to 173 ft; screen diameter 4 in. from 160 to 170 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--30-minute recorder interval from October 1984 to current year.
 DATUM.--Altitude of land surface is 68.99 ft above sea level.
 Measuring Point: Top of recorder platform, 2.26 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal. Missing data due to recorder malfunction.
 PERIOD OF RECORD.--October 1984 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.04 ft above sea level, May 8, 1994; lowest measured, 13.47 ft above sea level, Feb. 10, 1988.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	25.57	23.81	24.02	23.94	23.70	23.63	23.55	23.50	24.00	23.92	24.33	24.02
2	23.81	23.29	24.38	23.99	23.75	23.68	23.71	23.55	23.92	23.77	24.32	24.12
3	23.29	23.19	24.23	23.73	23.82	23.75	23.80	23.71	24.15	23.78	24.16	24.08
4	23.31	23.22	23.73	23.58	23.82	23.71	24.00	23.80	24.08	23.92	24.19	24.11
5	23.28	23.18	23.67	23.56	23.84	23.71	23.87	23.43	23.92	23.80	24.18	24.04
6	23.23	23.16	23.80	23.67	23.93	23.82	24.02	23.39	23.81	23.64	24.04	23.86
7	23.16	23.02	23.76	23.66	23.82	23.54	24.04	23.80	23.88	23.75	24.10	23.87
8	23.17	23.04	23.69	23.64	23.55	23.51	23.83	23.74	23.75	23.56	24.19	24.10
9	23.24	23.17	23.81	23.68	23.69	23.53	24.05	23.83	23.99	23.68	24.31	24.18
10	23.39	23.24	23.89	23.81	23.96	23.69	24.33	24.03	24.96	23.98	24.24	23.98
11	23.37	23.16	23.85	23.49	23.77	23.65	24.12	23.84	24.46	23.91	24.28	23.98
12	23.19	23.10	23.70	23.49	23.67	23.64	23.84	23.68	23.91	23.74	24.33	23.93
13	23.54	23.19	23.78	23.70	23.75	23.67	24.18	23.72	24.03	23.77	23.93	23.80
14	23.54	23.17	24.03	23.78	23.89	23.73	23.72	23.49	24.25	24.03	24.00	23.86
15	23.34	23.12	24.32	23.82	23.78	23.67	23.73	23.49	24.06	23.74	24.07	23.99
16	23.34	23.25	24.09	23.74	23.80	23.67	24.68	23.73	24.79	23.76	24.36	24.07
17	23.59	23.34	23.74	23.51	23.67	23.58	24.68	23.84	26.03	24.40	24.41	23.80
18	23.59	23.17	23.52	23.47	23.63	23.55	24.03	23.84	24.40	24.19	23.80	23.73
19	23.22	23.09	23.59	23.50	23.56	23.54	24.06	24.03	24.36	24.00	23.99	23.79
20	25.97	23.22	23.71	23.59	23.85	23.55	24.28	24.04	24.00	23.86	24.07	23.99
21	26.86	25.97	23.67	23.61	23.83	23.64	24.06	23.79	23.86	23.78	24.17	24.07
22	27.31	26.86	23.61	23.55	23.65	23.56	23.79	23.69	23.82	23.79	24.18	24.09
23	27.33	27.26	23.60	23.55	23.73	23.56	23.86	23.72	23.92	23.81	24.20	24.09
24	27.26	27.19	24.01	23.60	23.67	23.61	23.99	23.85	24.05	23.92	24.27	24.20
25	27.29	27.17	23.78	23.70	23.68	23.55	24.38	23.99	24.08	23.98	24.48	24.27
26	27.46	27.24	24.64	23.70	24.03	23.68	24.18	23.84	23.98	23.91	24.48	24.41
27	27.38	27.24	25.01	24.64	23.92	23.79	23.84	23.61	24.23	23.94	24.66	24.40
28	27.36	26.32	25.86	24.58	23.94	23.79	23.67	23.59	24.23	24.01	24.68	24.45
29	26.32	24.35	24.58	23.78	23.93	23.71	23.65	23.58	24.02	23.95	24.45	24.14
30	24.35	24.01	23.78	23.63	23.79	23.71	24.09	23.65	---	---	24.18	24.12
31	24.04	23.99	---	---	23.71	23.54	24.12	23.98	---	---	24.14	24.08
MONTH	27.46	23.02	25.86	23.47	24.03	23.51	24.68	23.39	26.03	23.56	24.68	23.73

GROUND-WATER LEVELS IN MARYLAND--Continued

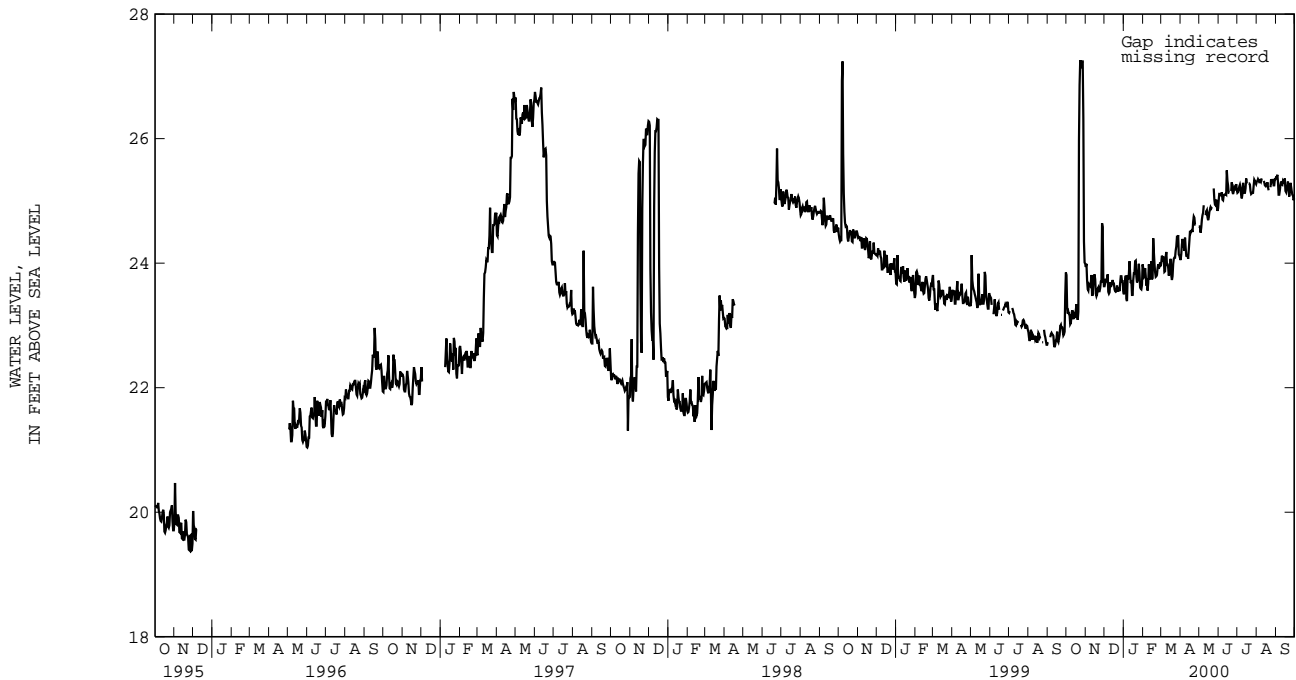
ANNE ARUNDEL COUNTY--Continued

AA Bd 156--Continued

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	24.15	24.05	24.84	24.59	25.31	25.01	25.18	25.13	25.36	25.31	25.52	25.38
2	24.30	24.15	24.87	24.57	25.20	25.13	25.18	25.14	25.72	25.32	25.43	25.38
3	24.52	24.30	24.58	24.49	---	---	25.23	25.18	25.47	25.35	25.45	25.42
4	24.61	24.39	24.70	24.57	---	---	25.30	25.23	25.36	25.33	25.45	25.30
5	24.39	24.26	24.82	24.70	25.17	25.07	25.29	25.26	25.34	25.30	25.30	25.10
6	24.53	24.29	24.83	24.77	25.24	25.14	25.27	25.21	25.37	25.30	25.20	25.10
7	24.41	24.20	25.00	24.81	25.14	25.02	25.23	25.09	25.38	25.35	25.26	25.17
8	24.59	24.41	25.01	24.93	25.09	25.01	25.11	25.04	25.41	25.32	25.34	25.26
9	24.50	24.25	---	---	25.15	25.09	25.31	25.11	25.42	25.36	25.34	25.31
10	24.25	24.12	---	---	25.15	25.10	25.34	25.29	---	---	25.32	25.27
11	24.37	24.12	24.86	24.77	25.15	25.10	25.29	25.19	---	---	25.32	25.26
12	24.40	24.12	24.97	24.83	25.14	25.11	25.19	25.13	25.36	25.32	25.41	25.32
13	24.21	24.07	25.02	24.85	25.75	25.10	25.20	25.13	25.33	25.30	25.41	25.30
14	24.36	24.21	24.85	24.74	25.92	25.49	25.36	25.20	25.32	25.25	25.47	25.30
15	24.56	24.36	24.77	24.69	25.49	25.32	25.90	25.36	25.30	25.24	25.51	25.36
16	24.59	24.52	24.83	24.73	25.32	25.25	25.74	25.28	25.36	25.28	25.36	25.16
17	24.53	24.49	24.87	24.82	25.25	25.13	---	---	25.30	25.24	25.25	25.14
18	25.05	24.52	25.01	24.86	25.24	25.13	---	---	25.38	25.30	25.24	25.22
19	24.66	24.53	25.01	24.90	---	---	25.57	25.28	25.33	25.22	25.45	25.24
20	24.66	24.50	24.90	24.88	---	---	25.32	25.28	25.22	25.17	25.38	25.31
21	24.88	24.66	24.98	24.90	25.36	25.16	25.28	25.26	---	---	25.42	25.17
22	24.40	24.75	---	---	25.34	25.30	25.27	25.16	---	---	25.17	25.07
23	25.02	24.73	---	---	25.30	25.15	25.16	25.11	25.35	25.22	25.34	25.14
24	24.73	24.62	25.24	25.20	25.15	25.11	25.14	25.12	25.37	25.35	25.40	25.29
25	24.66	24.62	25.20	25.02	25.25	25.15	25.14	25.13	25.35	25.30	25.34	25.23
26	---	---	25.02	24.94	25.26	25.22	25.24	25.13	25.36	25.31	25.36	25.16
27	---	---	25.02	24.93	25.26	25.20	25.87	25.24	25.40	25.35	25.17	25.10
28	---	---	25.10	25.02	25.27	25.19	25.66	25.34	25.35	25.25	25.19	25.09
29	---	---	25.08	24.91	25.34	25.27	25.49	25.32	26.34	25.25	25.09	25.01
30	24.69	24.59	24.91	24.84	25.29	25.18	25.32	25.29	25.64	25.35	25.17	25.04
31	---	---	25.01	24.88	---	---	25.33	25.27	25.82	25.35	---	---
MONTH	25.05	24.05	25.24	24.49	25.92	25.01	25.90	25.04	26.34	25.17	25.52	25.01
YEAR	27.46	23.02										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Bd 157. SITE ID.--390737076374401. PERMIT NUMBER.--AA-81-3464.
 LOCATION.--Lat 39°07'37", Long 76°37'44", Hydrologic Unit 02060003, off Nolfield Dr., 0.14 mi east of Phirne Rd.,
 at Rippling Woods Elementary School.
 Owner: U.S. Geological Survey.
 AQUIFER.--Lower Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 180 ft; casing diameter 6 in., to 167 ft;
 screen diameter 4 in. from 167 to 177 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital
 water-level recorder--60-minute recorder interval from March 1985 to current year.
 DATUM.--Altitude of land surface is 75.75 ft above sea level.
 Measuring Point: Top of recorder platform, 2.50 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.
 Missing data due to recorder malfunction.
 PERIOD OF RECORD.--March 1985 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 38.10 ft above sea level, April 29, 1997;
 lowest measured, 32.95 ft above sea level, Oct. 2, 1992.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	35.65	35.60	35.91	35.88	35.83	35.78	35.88	35.86	36.07	36.01	---	---
2	35.61	35.58	36.15	35.91	35.86	35.81	35.96	35.88	36.01	35.94	---	---
3	35.58	35.55	36.06	35.83	35.87	35.85	35.98	35.93	36.08	35.95	36.23	36.17
4	35.65	35.57	35.83	35.75	35.90	35.83	36.16	35.98	36.08	36.01	36.25	36.19
5	35.64	35.59	35.80	35.75	35.92	35.84	36.10	35.84	36.01	35.95	36.23	36.15
6	35.62	35.57	35.87	35.80	35.99	35.91	35.92	35.84	35.95	35.86	36.15	36.07
7	35.57	35.50	35.84	35.81	35.91	35.78	36.01	35.92	35.98	35.91	36.18	36.07
8	35.55	35.50	35.82	35.80	35.79	35.77	35.98	35.93	35.91	35.83	36.23	36.18
9	35.61	35.55	---	---	35.86	35.78	36.08	35.98	36.05	35.89	36.29	36.22
10	35.75	35.60	---	---	36.04	35.86	36.29	36.07	36.13	36.04	36.25	36.13
11	35.73	35.61	35.89	35.71	35.93	35.89	36.18	36.02	36.17	36.02	36.30	36.13
12	35.63	35.59	35.81	35.71	35.92	35.89	36.02	35.94	36.02	35.96	36.33	36.12
13	35.81	35.63	35.85	35.81	35.96	35.91	36.16	35.92	36.09	35.97	36.12	36.07
14	35.81	35.62	35.99	35.85	36.12	35.96	---	---	36.21	36.09	36.15	36.09
15	35.62	35.59	---	---	36.02	35.96	---	---	36.10	35.97	36.18	36.13
16	35.69	35.61	---	---	36.02	35.94	36.11	35.94	36.11	35.96	36.36	36.17
17	35.84	35.69	35.84	35.73	35.94	35.90	35.98	35.92	35.97	35.91	36.39	36.05
18	35.84	35.63	---	---	35.93	35.88	36.08	35.94	36.25	35.97	36.05	36.02
19	35.64	35.59	---	---	35.90	35.88	36.08	36.06	36.30	36.11	36.13	36.05
20	35.78	35.64	35.80	35.73	36.06	35.89	36.22	36.07	36.11	36.05	36.16	36.12
21	35.95	35.78	35.77	35.74	36.02	35.92	36.08	35.96	36.05	36.01	36.31	36.15
22	36.15	35.95	35.74	35.72	35.94	35.88	35.96	35.92	36.01	35.99	---	---
23	36.16	36.09	35.74	35.72	35.98	35.88	36.00	35.93	36.06	36.00	---	---
24	36.09	36.02	35.78	35.74	35.94	35.88	36.07	35.98	36.13	36.06	36.32	36.28
25	36.05	36.00	35.78	35.77	35.94	35.87	36.30	36.07	36.14	36.09	36.43	36.32
26	36.12	36.04	35.96	35.78	36.13	35.94	36.18	36.02	36.09	36.05	---	---
27	36.09	36.02	35.96	35.92	36.06	36.02	36.02	35.88	36.23	36.09	---	---
28	---	---	35.92	35.87	36.10	36.02	35.88	35.85	36.25	36.14	36.63	36.48
29	---	---	35.87	35.82	36.10	35.98	35.87	35.84	36.14	36.11	36.48	36.33
30	35.96	35.89	35.82	35.77	36.02	35.97	36.10	35.87	---	---	36.34	36.29
31	35.92	35.89	---	---	35.98	35.88	36.12	36.04	---	---	36.29	36.25
MONTH	36.16	35.50	36.15	35.71	36.13	35.77	36.30	35.84	36.30	35.83	36.63	36.02

GROUND-WATER LEVELS IN MARYLAND--Continued

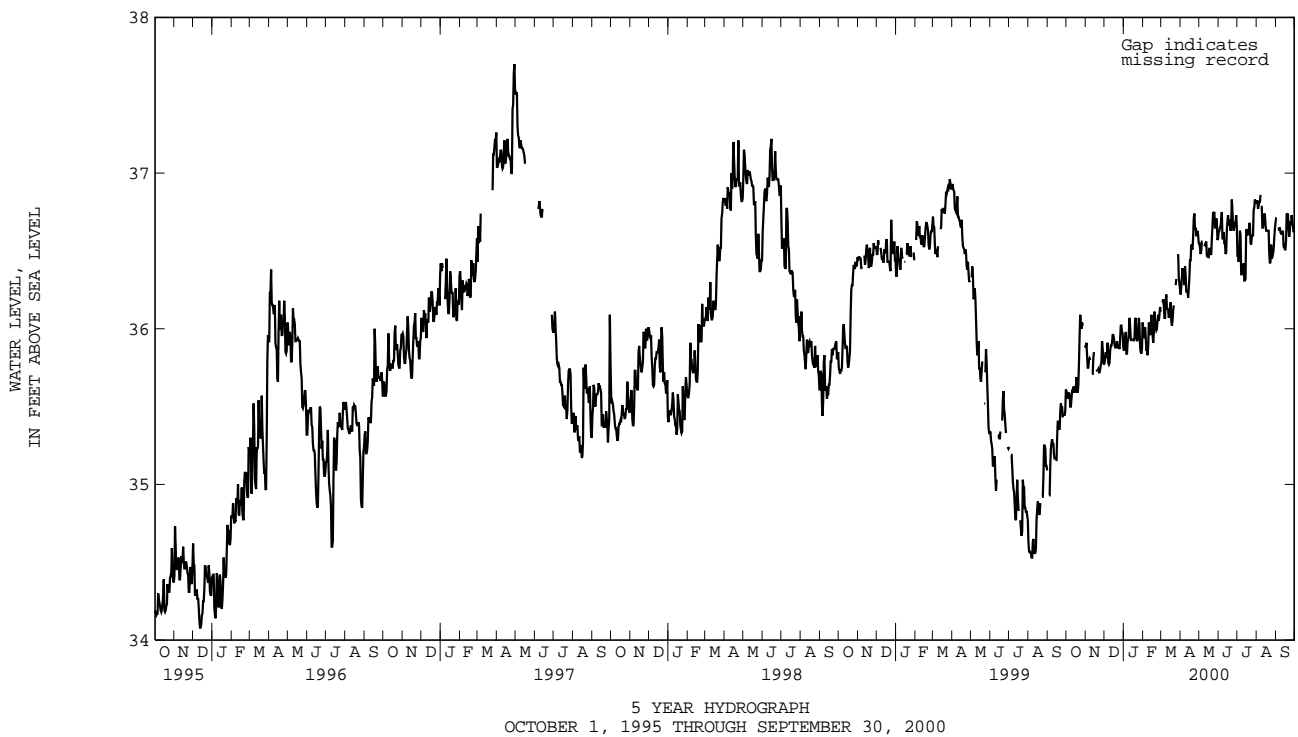
ANNE ARUNDEL COUNTY--Continued

AA Bd 157--Continued

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	36.28	36.22	36.68	36.55	36.71	36.62	36.66	36.47	36.85	36.82	36.75	36.71
2	36.33	36.27	36.69	36.52	36.75	36.63	36.54	36.47	36.86	36.82	36.75	36.71
3	36.47	36.33	36.52	36.48	36.72	36.65	36.55	36.43	36.85	36.77	---	---
4	36.51	36.39	36.57	36.50	36.71	36.66	36.64	36.47	36.85	36.79	---	---
5	36.39	36.33	36.59	36.56	36.75	36.70	36.65	36.63	36.84	36.82	36.75	36.65
6	36.47	36.36	36.62	36.56	36.82	36.75	36.65	36.60	36.87	36.81	36.65	36.63
7	36.40	36.28	---	---	36.76	36.58	36.60	36.35	36.89	36.86	36.71	36.65
8	36.50	36.40	---	---	36.63	36.58	36.41	36.35	---	---	36.73	36.62
9	36.50	36.35	36.66	36.53	36.66	36.62	36.51	36.37	36.85	36.79	36.71	36.61
10	36.35	36.24	36.65	36.54	36.65	36.55	36.51	36.39	36.79	36.65	36.62	36.61
11	36.34	36.24	36.60	36.55	36.61	36.55	36.50	36.42	36.74	36.65	36.68	36.61
12	36.35	36.24	36.62	36.56	36.63	36.63	36.47	36.31	36.77	36.69	36.71	36.63
13	36.26	36.20	36.61	36.47	36.63	36.49	36.35	36.31	36.77	36.74	36.67	36.53
14	36.33	36.26	36.52	36.47	36.71	36.63	36.63	36.32	36.78	36.73	36.59	36.53
15	36.45	36.33	36.54	36.46	36.78	36.69	36.71	36.63	36.73	36.67	36.64	36.51
16	36.48	36.44	36.57	36.46	36.78	36.73	36.67	36.64	36.73	36.63	36.57	36.51
17	36.54	36.44	36.58	36.52	36.74	36.67	36.64	36.60	36.79	36.63	36.91	36.57
18	36.70	36.54	36.56	36.50	36.80	36.67	36.64	36.61	36.75	36.63	36.96	36.74
19	36.59	36.52	36.54	36.48	36.77	36.70	36.69	36.61	36.73	36.63	36.83	36.73
20	36.59	36.51	36.58	36.48	36.71	36.63	36.71	36.68	36.67	36.63	36.77	36.74
21	36.72	36.59	36.66	36.58	36.83	36.68	36.69	36.67	36.66	36.49	36.79	36.64
22	36.95	36.71	36.76	36.66	36.86	36.83	36.67	36.55	36.53	36.42	36.64	36.59
23	36.94	36.74	36.84	36.75	36.84	36.76	36.59	36.54	36.67	36.43	36.72	36.63
24	36.74	36.64	36.86	36.74	36.76	36.65	36.62	36.59	36.69	36.54	36.75	36.69
25	36.70	36.65	36.84	36.75	36.69	36.63	36.62	36.60	36.57	36.45	36.85	36.67
26	36.67	36.60	36.95	36.65	36.71	36.65	36.80	36.60	36.53	36.46	36.87	36.73
27	36.63	36.60	36.71	36.65	36.71	36.68	36.79	36.76	36.53	36.48	36.73	36.69
28	36.65	36.63	36.80	36.71	36.74	36.68	36.88	36.78	36.59	36.51	36.73	36.66
29	36.65	36.60	36.80	36.69	36.76	36.73	36.88	36.83	36.66	36.58	36.66	36.62
30	36.61	36.55	36.69	36.57	36.73	36.66	36.85	36.81	36.69	36.64	36.67	36.63
31	---	---	36.67	36.58	---	---	36.91	36.81	36.72	36.68	---	---
MONTH	36.95	36.20	36.95	36.46	36.86	36.48	36.91	36.31	36.89	36.42	36.96	36.51
YEAR	36.96	35.50										

Daily Low Water Levels



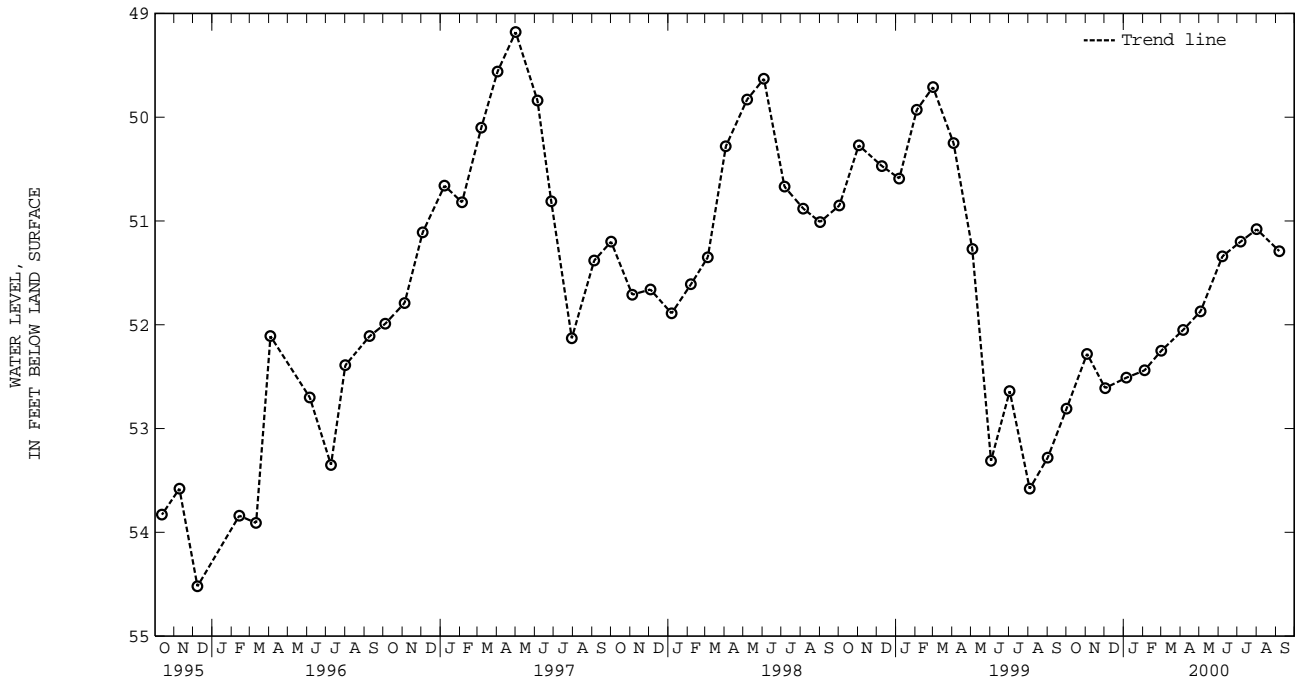
ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Bd 158. SITE ID.--390744076390001. PERMIT NUMBER.--AA-81-3459.
 LOCATION.--Lat 39°07'44", long 76°39'00", Hydrologic Unit 02060003, 0.05 mi off Stevenson Rd., 0.45 mi west of New Cut Road, at Center for Applied Technology-North.
 Owner: U.S. Geological Survey.
 AQUIFER.--Lower Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 187 ft; casing diameter 6 in., to 174 ft; screen diameter 4 in. from 174 to 184 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from January 1985 to 1989.
 DATUM.--Altitude of land surface is 108.25 ft above sea level.
 Measuring Point: Top of recorder platform, 2.60 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.
 PERIOD OF RECORD.--January 1985 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 49.18 ft below land surface, May 1, 1997;
 lowest measured, 55.90 ft below land surface, Sept. 14, 1987 and Jan. 15, 1988.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01, 1999	52.81	JAN 05, 2000	52.51	APR 05, 2000	52.05	JUL 06, 2000	51.20
NOV 03	52.28	FEB 03	52.44	MAY 03	51.87	AUG 01	51.08
DEC 02	52.61	MAR 01	52.25	JUN 07	51.34	SEP 06	51.29

WATER YEAR 2000 HIGHEST 51.08 AUG 01, 2000 LOWEST 52.81 OCT 01, 1999

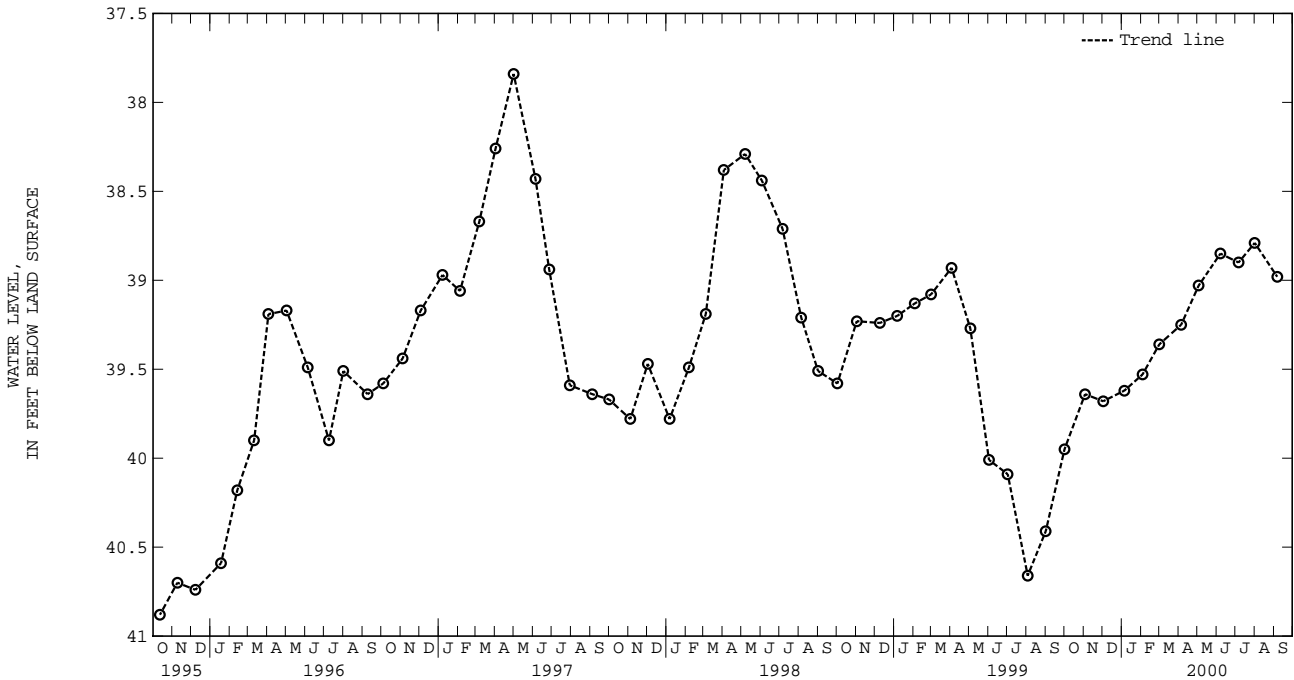


ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Bd 159. SITE ID.--390737076374402. PERMIT NUMBER.--AA-81-3949.
 LOCATION.--Lat 39°07'37", long 76°37'44", Hydrologic Unit 02060003, off Nolfield Dr., 0.14 mi east of Phrine Rd., at Rippling Woods Elementary School.
 Owner: U.S. Geological Survey.
 AQUIFER.--Upper Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 100 ft; casing diameter 6 in., to 89 ft; screen diameter 4 in. from 89 to 99 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from March 1985, to July 24, 1989.
 DATUM.--Altitude of land surface is 75.48 ft above sea level.
 Measuring Point: Top of casing, 2.50 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.
 PERIOD OF RECORD.--March 1985 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.77 ft below land surface, Sept. 14, 1987; lowest measured, 42.38 ft below land surface, Sept. 7, 1995.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01, 1999	39.95	JAN 05, 2000	39.62	APR 05, 2000	39.25	JUL 06, 2000	38.90
NOV 03	39.64	FEB 03	39.53	MAY 03	39.03	AUG 01	38.79
DEC 02	39.68	MAR 01	39.36	JUN 07	38.85	SEP 06	38.98
WATER YEAR 2000 HIGHEST 38.79		AUG 01, 2000		LOWEST 39.95		OCT 01, 1999	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Bd 160. SITE ID.--390908076394402. PERMIT NUMBER.--AA-81-3461.
 LOCATION.--Lat 39°09'08", Long 76°39'44", Hydrologic Unit 02060003, 0.08 mi north of Queenstown Road, 0.41 mi. east of
 WB & A Road, at Queenstown Park.
 Owner: U.S. Geological Survey.
 AQUIFER.--Lower Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 118 ft; casing diameter 6 in., to 105 ft.
 screen diameter 4 in. from 105 to 115 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital
 water-level recorder--60-minute recorder interval from April 1985 to current year.
 DATUM.--Altitude of land surface is 88 ft above sea level.
 Measuring Point: Top of recorder platform, 2.50 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.
 Missing data due to recorder malfunction.
 PERIOD OF RECORD.--April 1985 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 76.63 ft above sea level, May 8, 1998;
 lowest measured, 68.57 ft above sea level, Oct. 7, 1986.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	73.76	73.74	73.94	73.92	73.79	73.74	73.80	73.79	---	---	74.24	74.12
2	---	---	74.20	73.94	73.83	73.79	73.86	73.79	73.90	73.82	74.25	74.18
3	---	---	74.14	73.91	73.85	73.83	73.88	73.86	73.96	73.82	74.21	74.18
4	73.83	73.74	73.91	73.82	73.85	73.81	74.06	73.88	73.95	73.89	74.23	74.20
5	73.83	73.79	73.86	73.79	73.87	73.81	74.02	73.77	73.89	73.82	74.23	74.16
6	73.82	73.79	73.93	73.86	73.94	73.87	73.84	73.77	73.82	73.74	74.16	74.11
7	73.79	73.71	73.92	73.86	73.89	73.75	73.93	73.84	73.84	73.77	74.21	74.11
8	73.78	73.71	73.88	73.86	73.75	73.73	73.90	73.87	73.79	73.72	74.25	74.21
9	---	---	73.93	73.87	73.80	73.73	73.98	73.90	73.91	73.74	74.31	74.25
10	---	---	73.98	73.93	73.95	73.80	74.15	73.97	73.97	73.91	74.29	74.16
11	---	---	---	---	73.86	73.80	74.07	73.93	74.01	73.89	74.31	74.16
12	73.83	73.80	---	---	73.81	73.78	73.93	73.85	73.89	73.82	74.35	74.16
13	73.99	73.83	---	---	73.85	73.78	74.05	73.85	73.95	73.82	74.16	74.10
14	73.99	73.82	---	---	73.98	73.84	---	---	74.08	73.95	74.19	74.13
15	73.82	73.79	73.94	73.93	73.93	73.89	---	---	74.01	73.84	74.23	74.19
16	73.89	73.81	73.94	73.88	73.94	73.88	74.02	73.83	73.98	73.85	74.37	74.23
17	74.03	73.89	73.88	73.75	73.88	73.85	73.91	73.83	73.88	73.79	74.42	74.11
18	74.03	73.83	73.75	73.72	73.87	73.81	73.97	73.83	74.07	73.79	74.11	74.06
19	73.83	73.78	73.77	73.73	73.83	73.81	74.01	73.97	74.16	74.00	74.19	74.08
20	---	---	73.82	73.77	73.97	73.82	74.12	73.97	74.00	73.96	74.23	74.19
21	---	---	---	---	73.95	73.86	74.01	73.88	---	---	74.38	74.23
22	74.10	73.97	---	---	73.89	73.83	---	---	---	---	74.41	74.37
23	74.10	74.00	73.76	73.74	73.92	73.83	---	---	74.01	73.96	74.41	74.37
24	74.00	73.87	73.80	73.76	73.91	73.85	73.95	73.88	74.09	74.01	74.45	74.41
25	73.88	73.85	73.79	73.78	73.91	73.85	74.18	73.95	74.10	74.05	74.55	74.45
26	73.94	73.87	73.95	73.78	74.07	73.91	74.09	73.88	74.05	74.02	74.55	74.52
27	73.93	73.82	73.95	73.88	74.04	73.99	73.88	73.77	74.17	74.03	74.71	74.52
28	73.84	73.82	73.88	73.76	74.04	73.98	---	---	74.19	74.13	74.74	74.63
29	---	---	73.78	73.76	74.04	73.91	---	---	74.13	74.11	74.63	74.48
30	---	---	73.76	73.74	73.95	73.90	73.97	73.75	---	---	74.50	74.48
31	---	---	---	---	73.90	73.80	---	---	---	---	74.49	74.45
MONTH	74.10	73.71	74.20	73.72	74.07	73.73	74.18	73.75	74.19	73.72	74.74	74.06

GROUND-WATER LEVELS IN MARYLAND--Continued

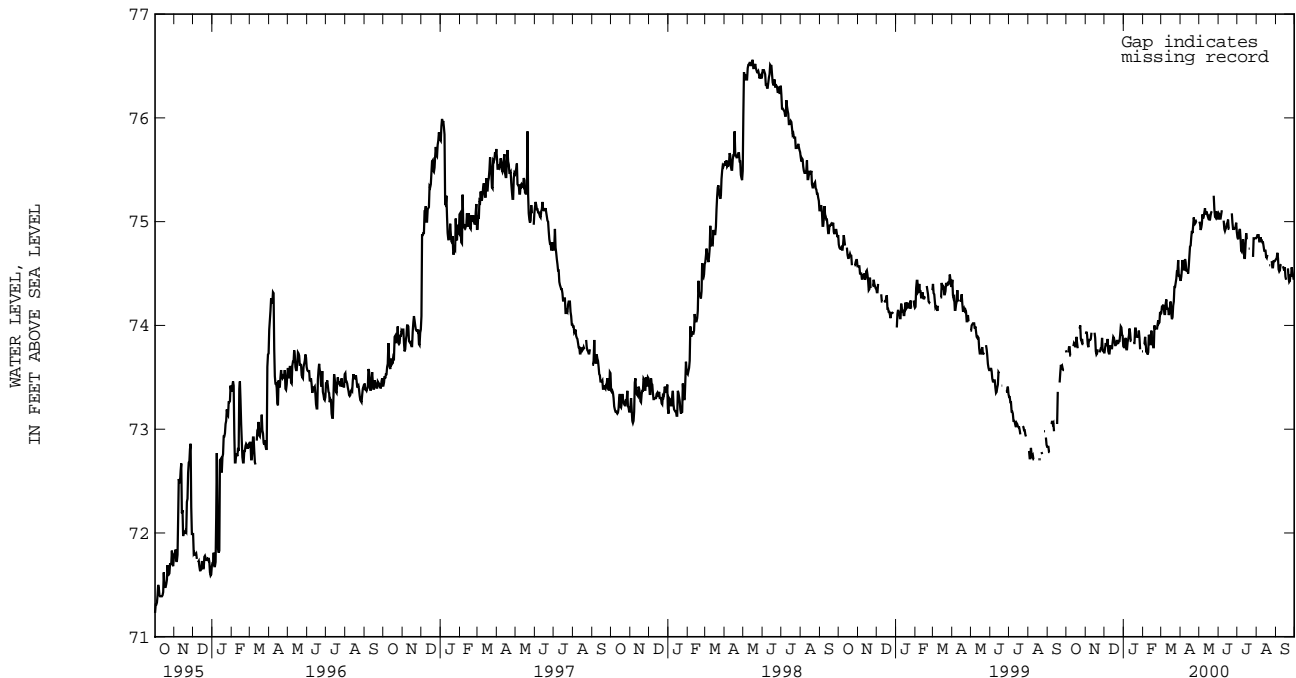
ANNE ARUNDEL COUNTY--Continued

AA Bd 160--Continued

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	74.47	74.43	75.11	75.00	75.12	75.08	74.92	74.85	74.88	74.85	74.66	74.64
2	74.54	74.47	75.14	74.98	75.14	75.07	74.87	74.83	74.89	74.87	74.70	74.65
3	74.67	74.54	74.98	74.92	75.12	75.03	74.91	74.86	74.89	74.87	74.73	74.70
4	74.72	74.63	75.00	74.94	75.07	75.03	74.93	74.91	74.88	74.87	74.74	74.65
5	74.63	74.56	75.09	74.98	75.11	75.07	74.95	74.93	74.87	74.81	74.65	74.54
6	74.70	74.58	75.09	75.07	75.17	75.11	74.93	74.84	74.87	74.81	74.54	74.52
7	74.64	74.53	75.08	75.03	---	---	74.84	74.72	74.88	74.85	74.58	74.53
8	74.72	74.64	75.09	75.05	---	---	74.74	74.71	74.85	74.82	74.62	74.58
9	74.72	74.61	75.14	75.09	75.05	75.01	74.83	74.74	74.86	74.82	74.62	74.59
10	74.61	74.53	75.18	75.13	75.01	74.93	74.87	74.83	74.86	74.80	---	---
11	74.63	74.53	75.13	75.07	74.96	74.91	74.84	74.77	74.81	74.80	---	---
12	74.65	74.53	75.17	75.09	74.99	74.93	74.77	74.65	74.81	74.76	74.62	74.57
13	74.57	74.50	75.16	75.09	74.98	74.94	74.77	74.65	74.78	74.72	74.62	74.55
14	74.67	74.57	75.10	75.06	74.99	74.98	74.89	74.77	74.75	74.72	74.56	74.53
15	74.76	74.67	75.08	75.04	75.07	74.99	74.93	74.89	74.74	74.72	74.60	74.56
16	74.80	74.76	75.10	75.05	75.07	75.02	74.90	74.83	74.78	74.66	74.56	74.47
17	74.85	74.77	75.10	75.02	75.02	74.93	---	---	74.68	74.65	74.47	74.44
18	74.93	74.85	75.10	75.02	75.07	74.93	---	---	74.75	74.68	---	---
19	74.93	74.91	75.11	75.06	---	---	74.80	74.74	---	---	---	---
20	74.96	74.89	75.10	75.09	---	---	---	---	---	---	74.58	74.55
21	75.08	74.96	75.13	75.10	---	---	---	---	74.61	74.58	74.59	74.46
22	75.09	75.04	---	---	75.12	75.08	---	---	---	---	74.46	74.42
23	75.04	75.00	---	---	75.08	74.99	---	---	---	---	74.52	74.43
24	75.00	74.98	75.28	75.25	74.99	74.93	---	---	---	---	74.56	74.49
25	75.05	74.99	75.25	75.12	74.97	74.93	---	---	74.67	74.62	74.63	74.47
26	75.05	75.01	75.12	75.05	75.00	74.93	74.85	74.66	74.65	74.56	74.67	74.56
27	75.04	75.01	75.10	75.04	75.00	74.94	74.85	74.84	74.66	74.56	74.56	74.52
28	---	---	75.17	75.10	75.00	74.95	74.90	74.84	74.66	74.62	74.55	74.49
29	---	---	75.19	75.07	75.04	74.99	74.90	74.84	74.64	74.62	74.49	74.45
30	---	---	75.07	75.03	74.99	74.90	74.87	74.84	74.64	74.62	74.49	74.45
31	---	---	75.09	75.03	---	---	74.86	74.84	74.66	74.63	---	---
MONTH	75.09	74.43	75.28	74.92	75.17	74.90	74.95	74.65	74.89	74.56	74.74	74.42
YEAR	75.28	73.71										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Bf 3. SITE ID.--390945076285601.

LOCATION.--Lat 39°09'45", long 76°28'56", Hydrologic Unit 02060003, 8 mi east of Glen Burnie at Fort Smallwood Park.

Owner: Baltimore City Department of Recreation and Parks.

AQUIFER.--Upper Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.

WELL CHARACTERISTICS.--Dug, brick-lined, unused, water-table well, diameter 48 in., depth 22.8 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Altitude of land surface is 20.38 ft above sea level.

Measuring point: Hole in concrete cover at land surface.

REMARKS.--Maryland Water-Level Network observation well. Water level measured 14.10 ft below land surface, Jan. 27, 1944.

PERIOD OF RECORD.--April 1956 to current year.

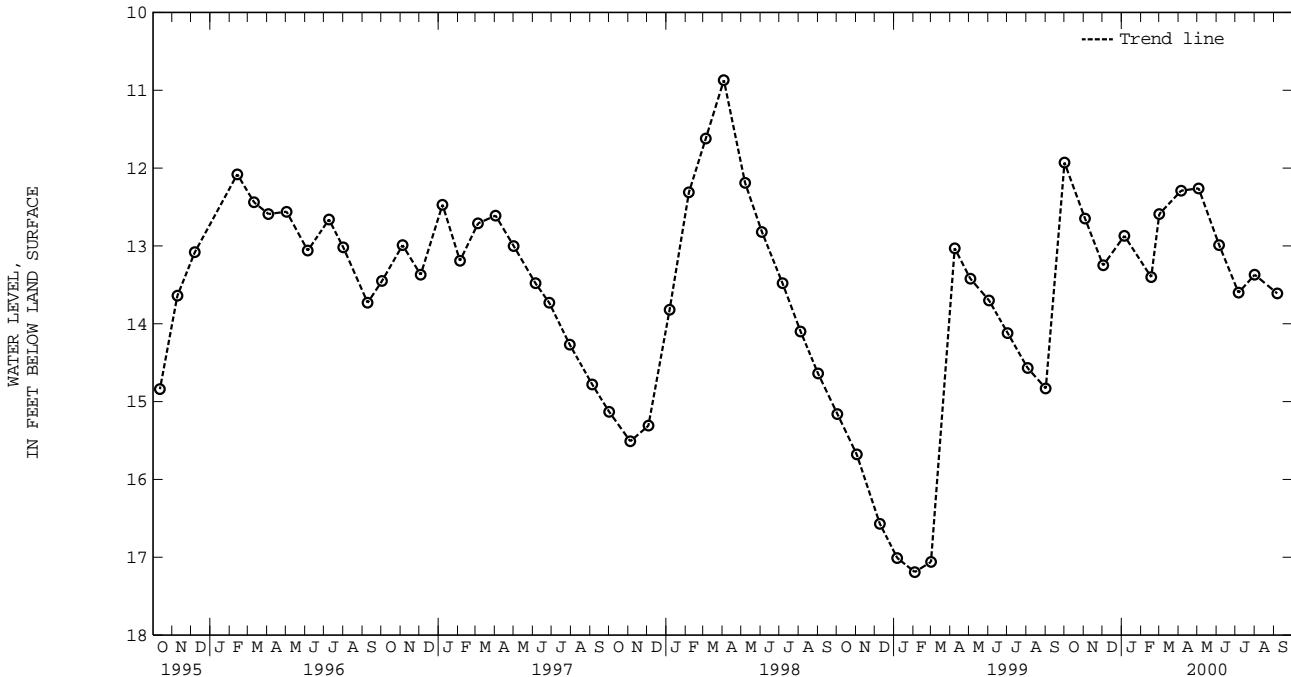
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.40 ft below land surface, March 31, 1958;

lowest measured, 19.09 ft below land surface, Dec. 7, 1965.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01, 1999	11.93	JAN 05, 2000	12.87	APR 05, 2000	12.29	JUL 06, 2000	13.60
NOV 03	12.65	FEB 17	13.40	MAY 03	12.26	AUG 01	13.37
DEC 02	13.25	MAR 01	12.59	JUN 05	12.99	SEP 06	13.61

WATER YEAR 2000 HIGHEST 11.93 OCT 01, 1999 LOWEST 13.61 SEP 06, 2000



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Cb 1. SITE ID.--390303076463201. PERMIT NUMBER.--AA-03-5695.

LOCATION.--Lat 39°03'03", long 76°46'32", Hydrologic Unit 02060006, on Duvall Bridge Rd., Patuxent Wildlife Research Center.
Owner: U.S. Army.

AQUIFER.--Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 505 ft; casing diameter 6 in. to 485 ft;
screen diameter 6 in. from 485 to 505 ft.INSTRUMENTATION.--Monthly measurements with electric tape by USGS personnel. Equipped with digital water-level
recorder--60-minute recorder interval from July 2, 1984 to current year.

DATUM.--Elevation of land surface is 129.10 ft above sea level.

Measuring point: Top lip of 3 in. extension pipe, 3.35 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--March 1962 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 85.40 ft above sea level, May 1, 1962;
lowest measured, 33.16 ft above sea level, Aug. 10, 1987.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	44.25	44.17	46.89	46.82	47.04	46.93	48.47	48.41	49.89	49.80	50.02	49.87
2	44.34	44.24	47.26	46.89	47.11	47.04	48.61	48.47	49.80	49.63	50.00	49.89
3	44.44	44.34	47.17	47.00	47.11	47.07	48.70	48.60	49.72	49.62	49.97	49.89
4	44.59	44.44	47.00	46.90	47.16	47.11	48.96	48.70	49.63	49.45	49.98	49.91
5	44.64	44.58	47.00	46.90	47.30	47.13	48.89	48.60	49.45	49.33	49.95	49.84
6	44.72	44.64	47.12	46.98	47.44	47.30	48.64	48.59	49.33	49.21	49.84	49.76
7	44.65	44.54	47.10	47.05	47.36	47.26	48.66	48.54	49.32	49.22	49.89	49.76
8	44.64	44.54	47.15	47.06	47.31	47.26	48.60	48.53	49.22	49.13	49.90	49.86
9	44.78	44.64	47.27	47.12	47.45	47.27	48.75	48.59	49.34	49.18	49.98	49.89
10	45.04	44.78	47.38	47.26	47.72	47.45	49.05	48.74	49.41	49.33	49.93	49.74
11	45.06	44.99	47.34	47.16	47.64	47.59	49.00	48.84	49.46	49.29	49.90	49.74
12	45.10	44.98	47.32	47.16	47.74	47.64	48.86	48.77	49.29	49.22	49.94	49.70
13	45.42	45.10	47.43	47.32	47.88	47.74	49.07	48.82	49.44	49.24	49.70	49.64
14	45.41	45.31	47.64	47.43	48.09	47.88	48.82	48.73	49.62	49.44	49.74	49.66
15	45.40	45.31	47.60	47.54	48.03	47.98	49.04	48.77	49.51	49.39	49.78	49.72
16	45.60	45.40	47.61	47.52	48.03	47.80	49.34	49.04	49.60	49.39	49.93	49.75
17	45.89	45.60	47.52	47.35	47.80	47.66	49.29	49.20	49.39	49.28	49.98	49.59
18	45.89	45.80	47.35	47.26	47.66	47.53	49.55	49.29	49.66	49.29	49.61	49.55
19	45.85	45.75	47.27	47.23	47.57	47.53	49.68	49.55	49.75	49.57	49.70	49.57
20	46.00	45.85	47.28	47.20	47.76	47.54	49.93	49.68	49.59	49.53	49.77	49.68
21	46.13	45.99	47.23	47.13	47.74	47.69	49.78	49.68	49.53	49.50	49.99	49.75
22	46.36	46.13	47.15	47.09	47.76	47.68	49.69	49.66	49.53	49.50	50.03	49.95
23	46.37	46.29	47.14	47.09	47.88	47.68	49.78	49.67	49.60	49.51	49.95	49.92
24	46.32	46.24	47.15	47.10	47.92	47.83	49.90	49.77	49.69	49.60	49.95	49.91
25	46.33	46.24	47.16	47.10	48.04	47.85	50.17	49.90	49.77	49.68	50.06	49.93
26	46.47	46.31	47.35	47.16	48.32	48.04	50.07	49.87	49.72	49.68	50.16	50.05
27	46.47	46.43	47.33	47.25	48.37	48.30	49.87	49.67	49.90	49.72	50.42	50.16
28	46.51	46.42	47.25	47.07	48.52	48.37	49.67	49.59	49.92	49.84	50.44	50.27
29	46.59	46.51	47.07	46.99	48.52	48.42	49.59	49.56	49.88	49.82	50.27	50.10
30	46.66	46.58	46.99	46.92	48.50	48.46	49.86	49.58	---	---	50.10	50.02
31	46.82	46.66	---	---	48.48	48.41	49.89	49.83	---	---	50.02	49.95
MONTH	46.82	44.17	47.64	46.82	48.52	46.93	50.17	48.41	49.92	49.13	50.44	49.55

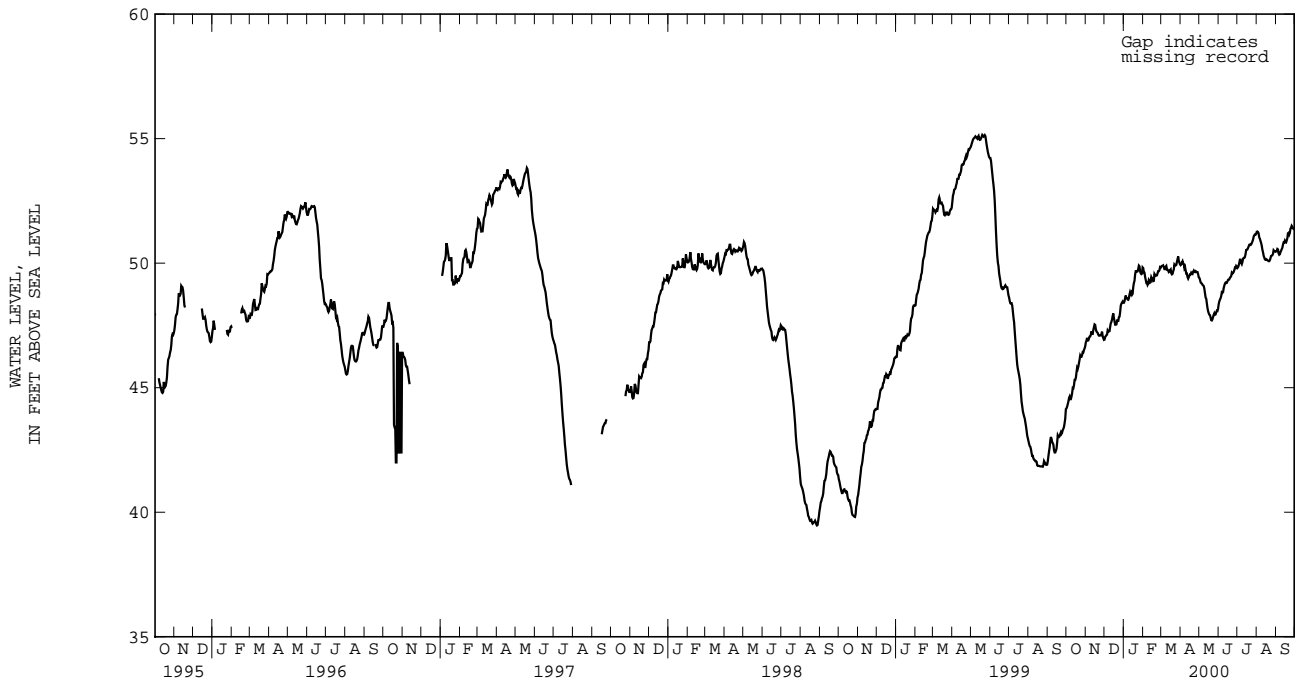
ANNE ARUNDEL COUNTY--Continued

AA Cb 1--Continued

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	49.99	49.92	49.55	49.41	48.47	48.36	49.88	49.81	51.31	51.26	50.50	50.47
2	50.05	49.95	49.55	49.33	48.60	48.47	49.92	49.84	51.32	51.27	50.57	50.48
3	50.18	50.03	49.34	49.23	48.61	48.54	50.02	49.91	51.30	51.25	50.63	50.57
4	50.25	50.08	49.25	49.20	48.68	48.59	50.14	50.02	51.25	51.19	50.64	50.55
5	50.08	49.99	49.23	49.18	48.83	48.68	50.18	50.14	51.19	51.03	50.55	50.39
6	50.11	49.97	49.20	49.13	48.92	48.83	50.18	50.14	51.03	50.98	50.39	50.34
7	49.97	49.80	49.15	49.11	48.90	48.81	50.14	50.01	50.99	50.89	50.44	50.36
8	49.90	49.85	49.14	49.08	49.00	48.84	50.04	49.96	50.90	50.81	50.51	50.44
9	49.89	49.71	49.08	48.97	49.12	49.00	50.18	50.04	50.81	50.70	50.58	50.50
10	49.71	49.58	48.97	48.79	49.20	49.10	50.26	50.18	50.70	50.54	50.64	50.56
11	49.65	49.58	48.79	48.62	49.24	49.18	50.27	50.21	50.54	50.44	50.74	50.62
12	49.68	49.44	48.65	48.57	49.27	49.22	50.27	50.21	50.44	50.30	50.86	50.74
13	49.45	49.38	48.57	48.38	49.26	49.20	50.36	50.25	50.31	50.23	50.88	50.83
14	49.50	49.44	48.38	48.20	49.29	49.21	50.53	50.36	50.24	50.15	50.95	50.83
15	49.58	49.50	48.20	48.07	49.35	49.27	50.60	50.53	50.20	50.14	50.98	50.90
16	49.61	49.55	48.07	47.99	49.39	49.33	50.59	50.54	50.25	50.16	50.92	50.84
17	49.63	49.55	48.00	47.93	49.39	49.33	50.61	50.55	50.17	50.13	50.93	50.83
18	49.67	49.62	47.97	47.91	49.47	49.35	50.70	50.61	50.18	50.13	51.00	50.91
19	49.65	49.59	47.95	47.82	49.47	49.42	50.75	50.67	50.14	50.10	51.24	51.00
20	49.67	49.57	47.82	47.71	49.48	49.44	50.77	50.74	50.10	50.08	51.33	51.20
21	49.77	49.65	47.75	47.70	49.62	49.48	50.77	50.75	50.13	50.08	51.35	51.22
22	49.75	49.70	47.84	47.75	49.66	49.62	50.77	50.73	50.20	50.12	51.22	51.15
23	49.70	49.65	47.93	47.84	49.65	49.59	50.81	50.75	50.30	50.20	51.38	51.22
24	49.68	49.64	48.03	47.93	49.65	49.60	50.88	50.81	50.34	50.29	51.47	51.38
25	49.73	49.68	48.11	47.99	49.74	49.65	50.94	50.87	50.37	50.30	51.60	51.42
26	49.73	49.66	47.99	47.93	49.87	49.72	51.08	50.94	50.40	50.32	51.65	51.50
27	49.68	49.64	48.03	47.94	49.87	49.82	51.14	51.06	50.53	50.37	51.52	51.46
28	49.67	49.64	48.15	48.03	49.90	49.81	51.21	51.12	50.59	50.52	51.52	51.41
29	49.66	49.56	48.16	48.09	49.96	49.89	51.23	51.15	50.55	50.49	51.41	51.37
30	49.57	49.43	48.17	48.08	49.94	49.86	51.23	51.14	50.54	50.48	51.46	51.37
31	---	---	48.36	48.17	---	---	51.29	51.18	50.51	50.46	---	---
MONTH	50.25	49.38	49.55	47.70	49.96	48.36	51.29	49.81	51.32	50.08	51.65	50.34
YEAR	51.65	44.17										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

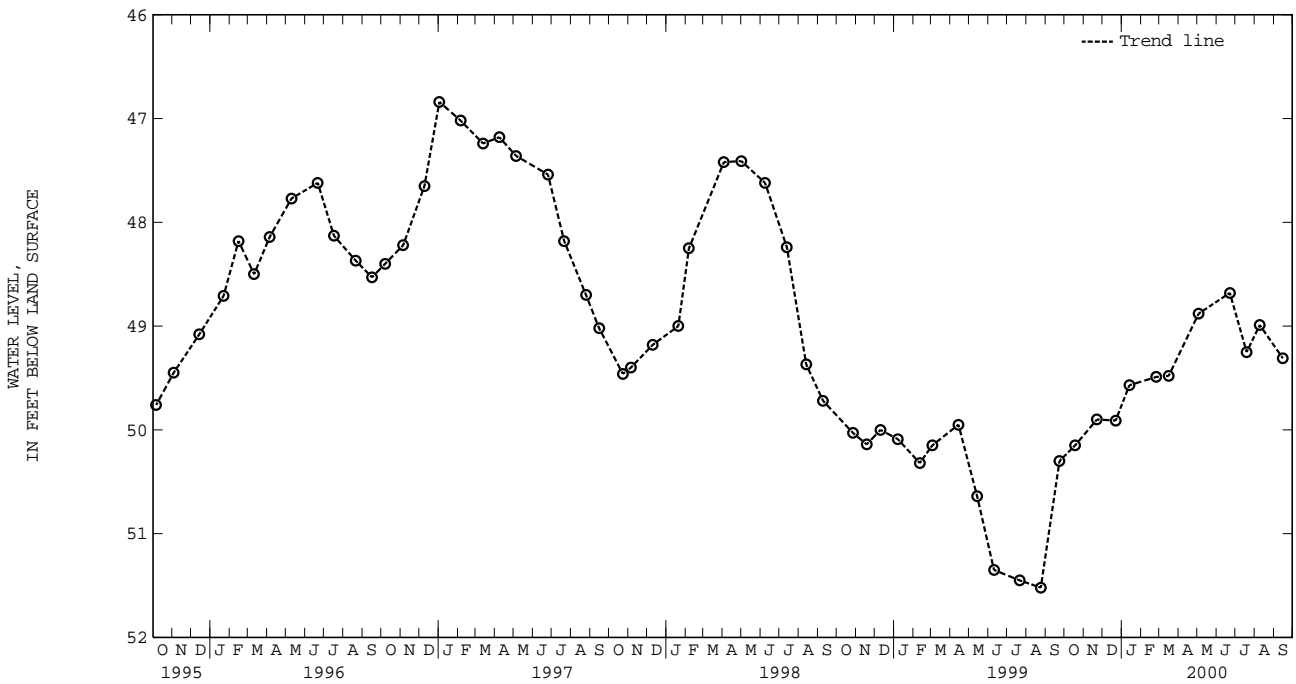
GROUND-WATER LEVELS IN MARYLAND--Continued

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Cc 40. SITE ID.--390423076432001. PERMIT NUMBER.--AA-03-5693.
 LOCATION.--Lat 39°04'23", long 76°43'20", Hydrologic Unit 02060006, on Rifle Range Rd., Fort George G. Meade.
 Owner: U.S. Army.
 AQUIFER.--Lower Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 238 ft; casing diameter 6 in., to 208 ft; screened diameter 6 in., from 208 to 238 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder from Dec. 4, 1959 to July 21, 1960 and Jan. 12, 1978 to December 1985.
 DATUM.--Altitude of land surface is 136.92 ft above sea level.
 Measuring point: Top of casing, 2.60 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.
 PERIOD OF RECORD.--December 1959 to current year
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 42.58 ft below land surface, March 25, 1961; lowest measured, 51.69 ft below land surface, Sept. 1, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 1999	50.15	JAN 13, 2000	49.57	MAY 03, 2000	48.88	AUG 09, 2000	48.99
NOV 22	49.90	FEB 25	49.49	JUN 22	48.68	SEP 15	49.31
DEC 22	49.91	MAR 16	49.48	JUL 19	49.25		
WATER YEAR 2000 HIGHEST 48.68		JUN 22, 2000		LOWEST 50.15		OCT 18, 1999	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Cc 135. SITE ID.--390126076403001. PERMIT NUMBER.--AA-93-0998.

LOCATION.--Lat 39°01'26", long 76°40'30", Hydrologic Unit 02060006, nr Reidel Rd and Johns Hopkins Rd, at Crofton Meadows.
Owner: Anne Arundel County.

AQUIFER.--Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 1,100 ft; casing diameter 4 in. to 299 ft, and casing diameter 2 in. from 299 to 985 ft, and 1,035 to 1,070 ft; screen diameter 2 in. from 985 to 1,035 ft, and 1,070 to 1,100 ft.

INSTRUMENTATION.--Monthly measurements with steel tape by Maryland Geological Survey personnel. Equipped with digital water-level recorder--15-minute recorder interval from May 4, 1998 to current year.

DATUM.--Elevation of land surface is 114.81 ft above sea level.

Measuring point: Top of recorder platform, 3.48 ft above land surface.

REMARKS.--Anne Arundel County Water-Level Monitoring Network. Water levels are affected by local ground-water withdrawal.
Missing data due to recorder malfunction.

PERIOD OF RECORD.--December 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.78 ft above sea level, May 4, 1999;
lowest measured, 25.90 ft below sea level, Aug. 5, 1999

WATER LEVELS, IN FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-8.50	-14.17	-7.01	-12.69	---	---	.28	-2.99	2.86	-.36	3.81	.54
2	-7.61	-16.06	-7.21	-13.09	---	---	1.55	-2.83	3.20	-.29	3.94	.72
3	-8.84	-16.30	-6.07	-10.89	---	---	-.45	-2.74	3.71	-.06	4.12	-1.01
4	-10.51	-16.69	-5.51	-11.03	---	---	1.31	-2.57	4.23	-.28	3.11	-3.99
5	-8.31	-13.92	-5.18	-10.98	---	---	2.65	-2.08	4.63	.42	1.65	-4.86
6	-8.64	-14.39	-5.31	-11.83	---	---	2.33	-1.19	2.66	-.31	-1.73	-5.20
7	-9.05	-14.26	-5.51	-13.01	-2.15	-5.55	2.58	-.93	1.60	-.89	1.23	-3.87
8	-8.89	-14.51	-6.44	-13.34	-.88	-5.59	3.32	-.73	3.51	-1.01	2.45	-1.86
9	-8.33	-15.52	-6.35	-11.21	-.68	-4.97	2.40	-1.23	2.99	-.61	3.76	-2.99
10	-7.95	-15.52	-5.07	-10.74	.19	-4.59	1.13	-1.53	3.18	-.25	1.36	-2.99
11	-8.72	-15.67	---	---	1.05	-4.03	2.87	-1.18	---	---	2.20	-5.28
12	-8.68	-14.27	---	---	-.37	-3.96	2.38	-.61	---	---	.44	-6.45
13	-8.02	-14.24	---	---	-1.52	-4.00	3.19	-.88	---	---	-.37	-6.74
14	-7.30	-12.69	---	---	.75	-4.07	3.30	-.96	---	---	1.36	-1.87
15	-7.66	-12.64	---	---	.75	-3.11	3.61	.05	---	---	2.35	-1.14
16	-6.41	-14.65	---	---	1.33	-3.20	3.19	-.52	---	---	3.30	-1.27
17	-7.30	-14.78	---	---	1.01	-3.21	1.74	-.97	---	---	3.78	-.64
18	-8.00	-14.89	---	---	1.53	-3.27	2.17	-1.18	4.59	-.37	4.11	.04
19	-7.01	-13.13	---	---	.25	-3.44	3.42	-.11	4.44	.16	3.05	-4.00
20	-6.89	-12.38	---	---	-1.25	-3.69	4.13	.08	3.76	-.14	3.05	-4.84
21	-6.58	-11.07	---	---	.85	-3.77	3.50	-.32	2.82	-.36	2.25	1.34
22	-5.78	-11.13	---	---	1.15	-3.36	3.74	-.29	1.71	-2.43	1.34	.99
23	-4.83	-12.41	---	---	1.14	-3.15	3.42	-.33	1.63	-1.97	2.60	.97
24	-9.09	-13.76	---	---	1.51	-2.99	1.52	-.89	3.30	-.22	1.66	-4.58
25	-7.99	-13.35	---	---	1.78	-2.92	4.22	-.49	3.31	-.16	1.63	-5.44
26	-6.96	-11.78	---	---	2.54	-4.43	3.96	-.18	4.49	-.20	1.46	-5.26
27	-6.65	-11.39	---	---	-3.49	-6.78	3.18	-.40	2.88	-.38	-.07	-5.35
28	-6.46	-11.81	---	---	-.19	-6.27	3.24	-.38	1.85	-.78	2.32	-2.36
29	-6.12	-11.38	---	---	2.05	-3.46	4.01	.01	3.28	-.25	3.10	-1.36
30	-5.05	-13.38	---	---	-1.63	-3.89	3.47	-.26	---	---	3.12	-.98
31	-6.84	-13.89	---	---	.89	-3.23	2.39	-.25	---	---	3.06	-1.97
MONTH	-4.83	-16.69	-5.07	-13.34	2.54	-6.78	4.22	-2.99	4.63	-2.43	4.12	-6.74

GROUND-WATER LEVELS IN MARYLAND--Continued

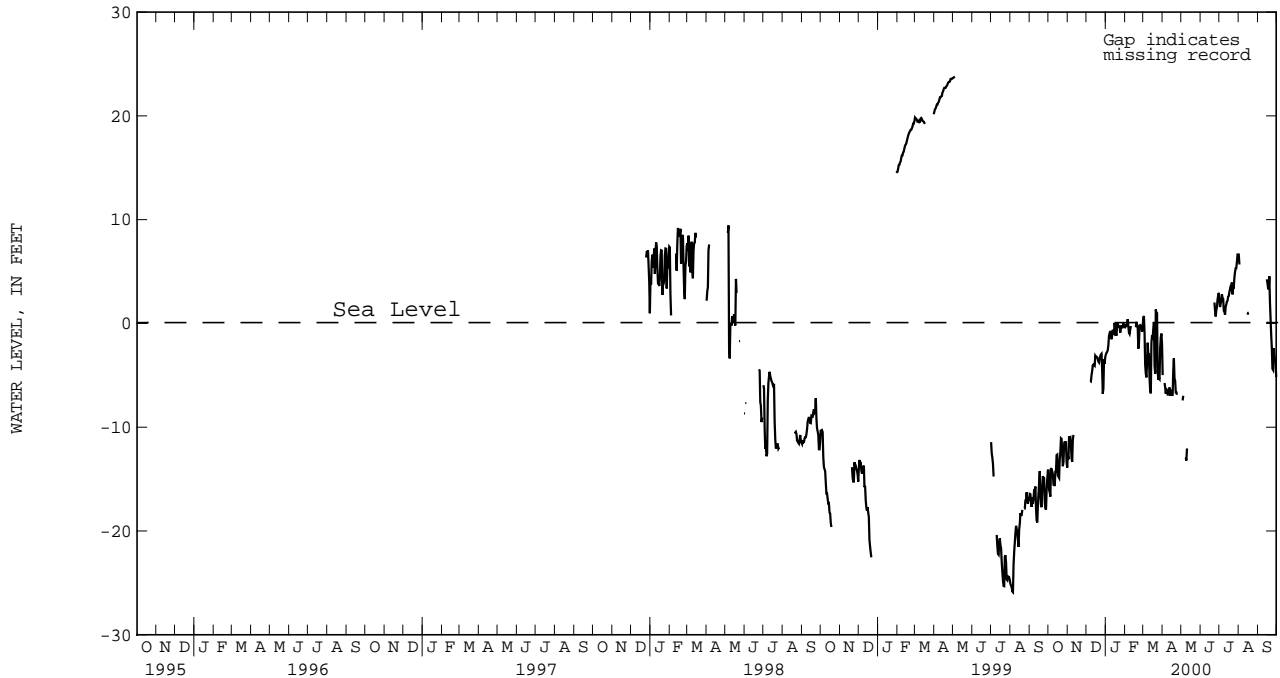
ANNE ARUNDEL COUNTY--Continued

AA Cc 135--Continued

WATER LEVELS, IN FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	2.45	-4.98	---	---	---	---	5.92	2.19	8.44	6.64	---	---
2	---	---	---	---	---	---	5.71	1.58	8.52	5.68	---	---
3	---	---	-2.92	-7.42	---	---	5.56	1.91	---	---	---	---
4	-.52	-5.74	-2.98	-6.97	---	---	5.91	2.18	---	---	---	---
5	1.84	-6.13	---	---	---	---	6.04	2.81	---	---	---	---
6	-.37	-6.76	---	---	---	---	6.05	2.42	---	---	---	---
7	-1.35	-6.35	---	---	---	---	5.79	2.38	---	---	---	---
8	1.68	-6.39	-9.63	-12.93	---	---	6.34	1.22	---	---	---	---
9	.27	-6.85	-7.63	-13.21	---	---	5.93	1.12	---	---	---	---
10	-1.51	-6.85	-7.48	-12.05	---	---	4.33	.83	---	---	---	---
11	-.91	-6.69	---	---	---	---	4.37	1.60	---	---	---	---
12	-1.04	-6.17	---	---	---	---	5.10	1.83	---	---	---	---
13	-2.40	-6.89	---	---	---	---	5.77	2.10	---	---	---	---
14	-3.57	-6.89	---	---	---	---	5.70	2.19	---	---	---	---
15	-1.23	-6.68	---	---	---	---	6.44	2.59	4.38	.84	8.13	4.25
16	-1.20	-6.89	---	---	---	---	6.46	2.65	4.45	1.02	8.64	3.89
17	-2.75	-6.89	---	---	---	---	6.38	3.04	4.49	1.05	8.15	3.42
18	-.63	-4.54	---	---	---	---	6.46	3.32	---	---	7.11	3.29
19	-.08	-3.37	---	---	---	---	6.46	3.14	---	---	8.20	4.55
20	.05	-5.31	---	---	---	---	6.50	3.68	---	---	9.02	2.03
21	-.39	-5.50	---	---	---	---	7.38	3.94	---	---	5.95	.45
22	.62	-6.63	---	---	---	---	7.36	2.80	---	---	4.31	-1.15
23	-.67	-6.63	---	---	5.15	2.02	7.20	3.55	---	---	3.65	-2.38
24	-1.04	-6.87	---	---	5.09	1.25	6.48	3.50	---	---	2.90	-4.37
25	---	---	---	---	4.93	.67	6.51	4.42	---	---	.67	-4.48
26	---	---	---	---	4.35	1.29	6.51	4.95	---	---	2.57	-2.37
27	---	---	---	---	5.00	1.57	6.51	5.32	---	---	2.31	-3.11
28	---	---	---	---	5.10	2.32	8.50	5.33	---	---	2.44	-3.39
29	---	---	---	---	5.76	2.67	8.78	5.89	---	---	1.67	-3.71
30	---	---	---	---	5.97	2.95	8.64	6.64	---	---	1.52	-5.17
31	---	---	---	---	---	---	8.14	6.64	---	---	---	---
MONTH	2.45	-6.89	-2.92	-13.21	5.97	.67	8.78	.83	8.52	.84	9.02	-5.17
YEAR	9.02	-16.69										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Cc 137. SITE ID.--390126076402901. PERMIT NUMBER.--AA-93-0993.
 LOCATION.--Lat 39°01'26", long 76°40'29", Hydrologic Unit 02060006, nr Reidel Rd and Johns Hopkins Rd, at Crofton Meadows.
 Owner: Anne Arundel County.
 AQUIFER.--Lower Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 690 ft; casing diameter 4 in. to 300 ft,
 and casing diameter 2 in. from 300 to 476 ft, and 506 to 536 ft, and 576 to 606 ft;
 screen diameter 2 in. from 476 to 506 ft, and 536 to 576 ft, and 606 to 686 ft.
 INSTRUMENTATION.--Monthly measurements with steel tape by Maryland Geological Survey personnel. Equipped with digital
 water-level recorder--15-minute recorder interval from May 4, 1998 to current year.
 DATUM.--Elevation of land surface is 117.00 ft above sea level.
 Measuring point: Top of recorder platform, 3.66 ft above land surface.
 REMARKS.--Anne Arundel County Water-Level Monitoring Network. Water levels are affected by local ground-water withdrawal.
 Missing data due to recorder malfunction.
 PERIOD OF RECORD.--December 1997 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.13 ft above sea level, April 25, 2000;
 lowest measured, 4.49 ft above sea level, June 2, 1999.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	27.67	26.88	28.75	28.28	26.22	25.86	---	---	27.43	26.86
2	---	---	27.66	27.12	28.86	28.42	26.48	25.83	---	---	27.47	27.11
3	---	---	27.73	27.35	28.70	28.39	26.14	25.81	---	---	27.68	27.14
4	---	---	27.58	27.28	28.90	28.42	26.43	25.87	---	---	28.19	27.59
5	---	---	27.63	27.24	28.91	28.19	26.66	26.05	---	---	28.34	27.69
6	---	---	---	---	28.19	27.59	26.62	26.27	---	---	27.99	27.25
7	---	---	---	---	27.89	27.31	26.77	26.35	---	---	27.66	27.11
8	---	---	27.53	26.93	27.81	27.19	26.91	26.44	---	---	27.73	27.22
9	---	---	27.60	27.26	27.59	27.09	26.73	26.31	---	---	28.06	27.35
10	---	---	27.96	27.43	27.75	27.08	26.52	26.19	---	---	28.11	27.70
11	---	---	28.02	27.53	27.76	27.11	26.85	26.23	26.96	26.40	28.61	27.98
12	---	---	27.84	27.44	27.26	26.89	26.59	26.35	---	---	28.71	28.13
13	---	---	28.15	27.48	26.90	26.58	26.98	26.26	---	---	28.52	27.91
14	---	---	28.16	27.42	27.34	26.54	26.67	26.19	---	---	28.25	27.78
15	---	---	28.00	27.36	27.26	26.82	26.83	26.30	---	---	28.15	27.67
16	---	---	28.14	27.74	27.37	26.78	26.89	26.35	---	---	28.16	27.60
17	---	---	28.25	27.94	27.23	26.72	26.40	26.05	---	---	28.19	27.39
18	---	---	28.13	27.87	27.34	26.68	26.43	26.03	27.02	26.10	27.91	27.39
19	---	---	28.24	27.86	26.95	26.57	26.78	26.31	27.15	26.56	27.56	27.23
20	---	---	28.46	27.75	26.61	26.34	27.15	26.44	26.84	26.39	---	---
21	27.54	27.30	28.38	27.75	26.89	26.31	26.83	26.35	26.56	26.25	---	---
22	---	---	---	---	26.87	26.30	26.87	26.31	26.42	26.09	---	---
23	---	---	---	---	26.95	26.23	26.74	26.31	27.13	26.42	27.46	25.56
24	---	---	---	---	26.91	26.32	26.44	26.05	27.37	26.90	27.52	25.44
25	27.45	27.12	---	---	26.48	26.19	27.07	26.22	27.27	26.78	28.50	27.52
26	---	---	28.72	28.23	26.33	26.09	26.92	26.44	27.67	26.76	28.86	28.09
27	---	---	28.98	28.42	26.09	25.72	26.65	26.20	27.35	26.91	28.83	28.32
28	---	---	28.82	28.09	26.55	25.67	---	---	27.11	26.66	28.67	28.04
29	27.76	27.29	28.54	28.01	26.87	26.05	---	---	27.16	26.74	28.40	27.81
30	27.80	27.04	28.63	28.26	26.54	26.18	---	---	---	---	28.13	27.64
31	27.46	26.88	---	---	26.51	26.03	---	---	---	---	27.90	27.47
MONTH	27.80	26.88	28.98	26.88	28.91	25.67	27.15	25.81	27.67	26.09	28.86	25.44

GROUND-WATER LEVELS IN MARYLAND--Continued

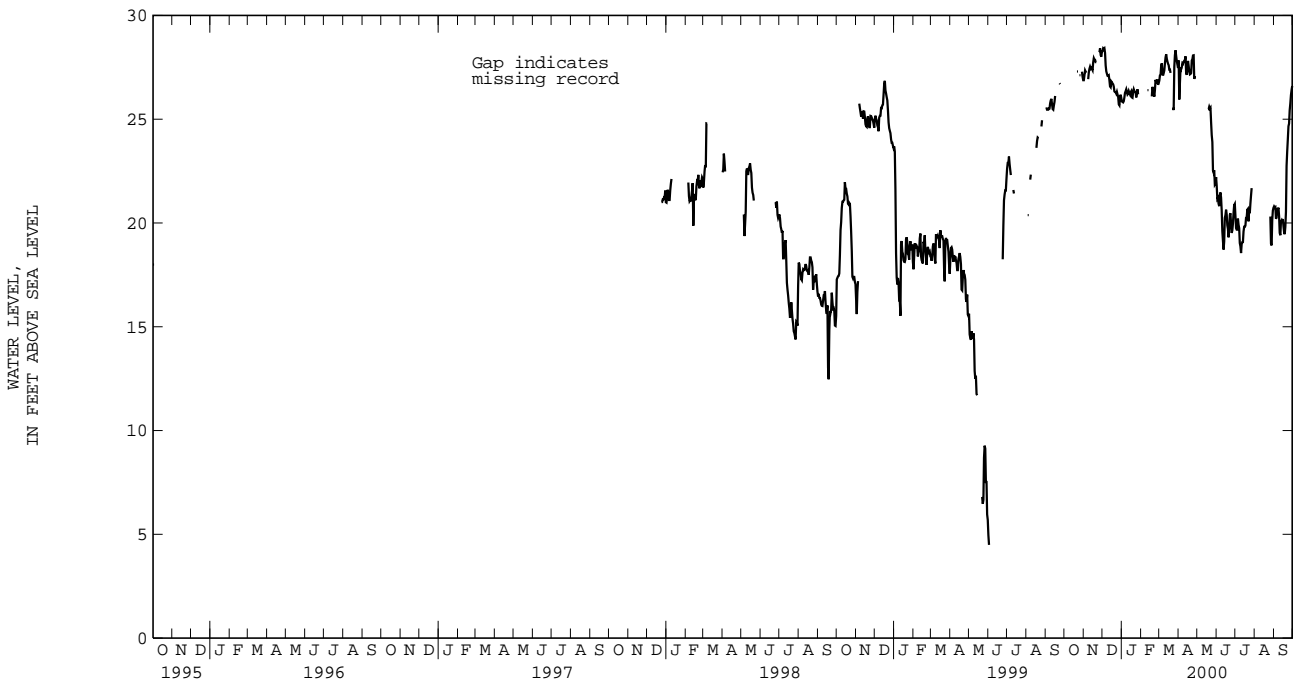
ANNE ARUNDEL COUNTY--Continued

AA Cc 137--Continued

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	28.39	27.83	---	---	23.40	21.79	21.99	20.35	---	---	22.05	20.80
2	27.86	25.95	---	---	22.94	21.16	21.66	19.75	---	---	22.16	20.75
3	28.04	26.73	---	---	22.86	21.21	21.47	19.68	---	---	22.37	20.77
4	28.07	27.49	---	---	22.94	20.93	21.47	19.68	---	---	22.42	20.20
5	28.00	27.41	---	---	22.08	20.81	21.66	20.21	---	---	21.57	20.27
6	28.27	27.50	---	---	22.90	21.33	21.58	19.92	---	---	21.97	20.66
7	28.23	27.70	---	---	23.01	21.47	21.22	19.75	---	---	22.09	20.65
8	28.40	27.67	---	---	22.71	21.22	21.46	19.03	---	---	22.13	20.74
9	28.52	27.76	---	---	22.55	20.61	21.12	18.88	---	---	22.58	20.33
10	28.20	27.82	---	---	21.98	19.61	19.86	18.55	---	---	21.27	19.52
11	28.35	27.84	---	---	21.15	19.14	19.92	18.98	---	---	20.92	19.41
12	28.40	28.03	---	---	19.79	18.72	20.37	19.07	---	---	21.25	20.08
13	28.30	27.22	---	---	20.62	19.11	20.78	19.08	---	---	21.60	20.13
14	27.47	27.14	---	---	21.43	20.25	20.93	19.59	---	---	21.54	20.02
15	28.07	27.47	---	---	21.81	20.38	21.48	19.82	---	---	21.82	20.19
16	28.33	27.81	---	---	22.06	20.64	21.53	19.82	---	---	22.04	19.85
17	28.19	27.57	---	---	22.02	20.41	21.23	19.87	---	---	21.73	19.56
18	27.82	27.30	27.25	25.48	21.98	19.89	21.51	20.24	---	---	20.91	19.46
19	27.78	27.16	26.71	25.48	20.82	19.71	21.63	20.24	---	---	21.42	19.81
20	27.47	27.18	27.01	25.60	20.68	19.31	22.12	20.64	---	---	22.75	20.54
21	27.92	27.22	27.10	25.52	21.20	19.74	22.10	20.68	---	---	23.59	22.75
22	28.50	27.83	27.07	25.56	21.68	20.39	22.16	20.08	---	---	24.03	23.46
23	28.70	27.89	26.29	24.84	21.90	20.47	22.07	20.62	---	---	24.82	24.03
24	28.60	28.07	25.88	24.24	21.76	19.97	21.92	20.47	---	---	25.25	24.66
25	29.13	28.08	25.37	23.90	21.45	19.52	22.36	20.94	---	---	25.49	24.79
26	28.63	26.94	24.75	22.53	20.97	19.64	22.53	21.32	21.93	20.31	26.02	25.43
27	28.58	27.08	24.36	22.43	21.33	19.98	22.97	21.68	20.42	19.00	26.27	25.76
28	---	---	24.45	22.54	21.55	20.49	---	---	20.75	18.92	26.65	26.16
29	---	---	24.52	21.85	21.94	20.86	---	---	21.33	20.13	26.74	26.41
30	---	---	23.51	21.90	22.08	20.92	---	---	21.81	20.60	27.02	26.60
31	---	---	23.48	22.21	---	---	---	---	21.92	20.73	---	---
MONTH	29.13	25.95	27.25	21.85	23.40	18.72	22.97	18.55	21.93	18.92	27.02	19.41
YEAR	29.13	18.55										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Ce 117. SITE ID.--390450076343402. PERMIT NUMBER.--AA-73-0172.

LOCATION.--Lat 39°04'50", long 76°34'34", Hydrologic Unit 02060004, 0.1 mi southwest of intersection of Severndale Road and Southway Road.

Owner: Anne Arundel County Department of Public Works.

AQUIFER.--Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 922 ft; casing diameter 6 in., to 836 ft, 851 to 870 ft, and 890 to 907 ft; screen diameter 6 in. from 836 to 851 ft, 870 to 890 ft, and 907 to 922 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--30-minute recorder interval from Aug. 18, 1977 to April 1980 and August 1983 to current year.

DATUM.--Altitude of land surface is 86.0 ft above sea level.

Measuring Point: Top of recorder platform, 0.50 ft above land surface.

REMARKS.--Anne Arundel County Water-Level Monitoring Network. Water levels are affected by local ground-water withdrawal.

Missing data due to recorder malfunction.

PERIOD OF RECORD.--August 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.58 ft above sea level, March 27, 1978;

lowest measured, 0.02 ft above sea level, Oct. 30, 1998.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	2.24	1.85	---	---	3.64	3.26	4.84	4.54	6.25	5.92	6.67	6.21
2	2.25	1.86	3.70	2.99	3.82	3.37	5.15	4.66	6.18	5.81	6.71	6.45
3	2.23	1.86	3.66	3.13	3.89	3.60	5.11	4.75	6.29	5.79	---	---
4	2.29	1.93	3.34	2.98	3.92	3.65	5.36	4.81	6.31	5.99	---	---
5	2.28	1.90	---	---	4.00	3.58	5.28	4.87	6.31	6.00	---	---
6	2.43	1.91	3.36	3.01	4.12	3.77	4.90	4.64	6.27	5.89	---	---
7	2.35	1.90	---	---	4.07	3.60	4.92	4.77	6.23	5.83	6.71	6.26
8	2.38	1.89	---	---	3.92	3.55	4.92	4.77	6.06	5.73	6.77	6.35
9	2.45	2.00	3.54	3.15	4.03	3.59	5.39	4.88	6.31	5.82	6.87	6.47
10	2.50	2.00	3.66	3.33	4.28	3.73	5.67	5.12	6.39	5.97	6.86	6.34
11	2.53	2.08	3.65	3.14	4.19	3.82	5.72	5.31	6.46	6.09	6.87	6.33
12	2.43	2.05	3.63	3.16	4.14	3.76	5.53	5.03	6.31	5.90	6.93	6.57
13	2.79	2.13	---	---	4.28	3.85	5.62	5.12	6.40	5.92	6.65	6.18
14	2.79	2.10	3.88	3.52	4.58	4.09	5.36	4.86	6.63	6.21	6.68	6.22
15	2.50	2.06	---	---	4.63	4.23	5.36	4.80	6.50	5.99	6.65	6.34
16	2.51	2.15	3.80	3.35	4.65	4.34	5.64	5.17	6.47	6.00	6.80	6.35
17	2.89	2.23	3.66	3.30	4.55	4.21	5.48	5.13	6.27	5.92	6.93	6.47
18	2.87	2.25	3.60	3.31	4.52	4.23	5.63	5.30	6.49	5.78	6.47	6.07
19	2.78	2.21	3.65	3.33	4.44	4.13	5.85	5.41	6.51	6.25	6.60	6.16
20	2.85	2.39	3.72	3.34	4.67	4.28	6.14	5.73	6.41	6.06	6.69	6.31
21	2.89	2.50	3.73	3.34	4.68	4.37	5.98	5.52	6.37	6.01	6.87	6.33
22	3.17	2.69	3.63	3.29	4.63	4.30	5.75	5.36	6.31	5.96	---	---
23	3.21	2.84	3.65	3.29	4.66	4.26	5.85	5.48	6.38	5.93	---	---
24	3.08	2.75	3.68	3.34	4.64	4.31	5.95	5.52	6.44	6.04	---	---
25	---	---	3.73	3.37	4.61	4.25	6.22	5.77	6.46	6.13	7.02	6.52
26	---	---	3.91	3.46	4.85	4.35	6.16	5.75	6.41	5.98	---	---
27	---	---	3.95	3.60	4.83	4.56	6.13	5.66	6.53	6.41	---	---
28	3.00	2.56	3.84	3.46	5.10	4.57	5.86	5.46	6.58	6.27	7.33	6.89
29	---	---	3.71	3.35	5.10	4.66	5.83	5.42	6.49	6.13	7.25	6.71
30	---	---	3.64	3.30	5.13	4.70	6.16	5.83	---	---	---	---
31	---	---	---	---	4.98	4.62	6.29	5.90	---	---	---	---
MONTH	3.21	1.85	3.95	2.98	5.13	3.26	6.29	4.54	6.63	5.73	7.33	6.07

GROUND-WATER LEVELS IN MARYLAND--Continued

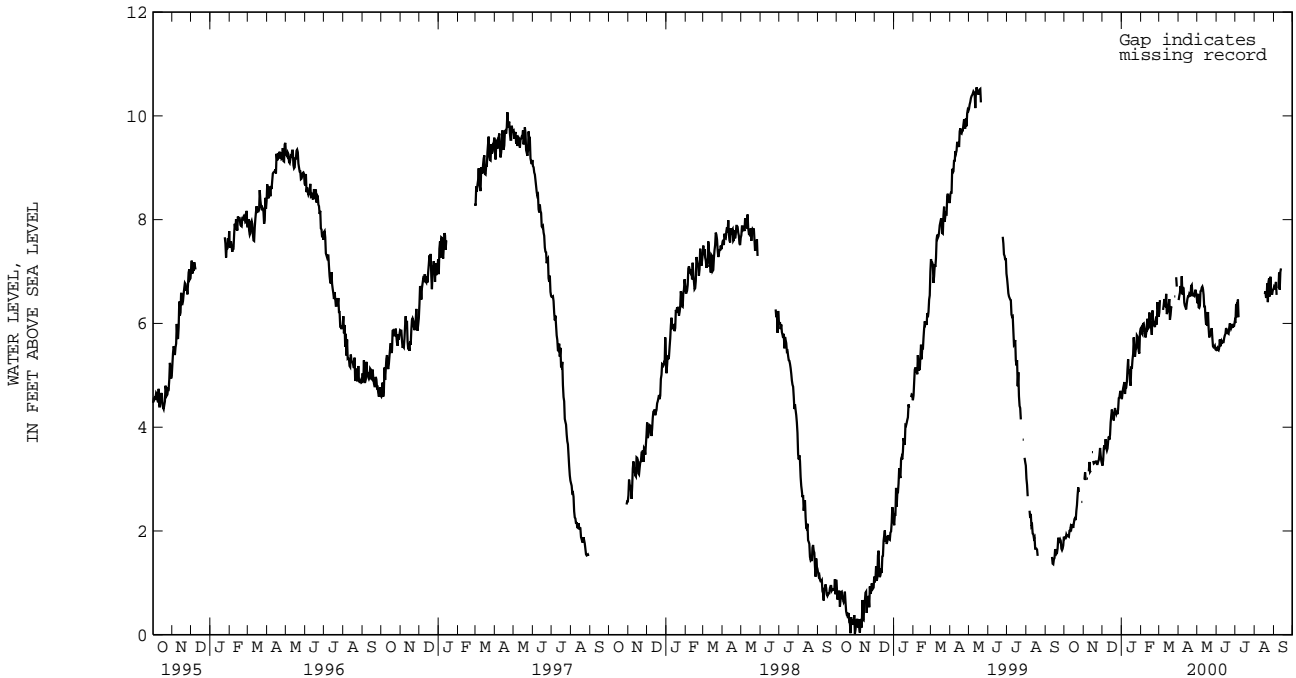
ANNE ARUNDEL COUNTY--Continued

AA Ce 117--Continued

WATER LEVELS, IN FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.89	6.45	6.96	6.39	5.97	5.51	6.43	6.01	---	---	7.12	6.71
2	6.99	6.53	6.96	6.57	6.00	5.53	6.40	6.35	---	---	7.14	6.69
3	7.03	6.59	6.69	6.31	5.97	5.49	6.44	6.37	---	---	7.21	6.73
4	7.25	6.72	6.71	6.30	5.93	5.48	6.48	6.12	---	---	7.24	6.80
5	7.10	6.62	6.74	6.34	6.04	5.53	6.48	6.46	---	---	7.05	6.55
6	7.07	6.91	6.69	6.62	6.19	5.69	6.50	6.12	---	---	---	---
7	7.01	6.56	6.69	6.63	6.04	5.56	---	---	---	---	---	---
8	7.20	6.70	6.73	6.69	6.11	5.61	---	---	---	---	7.06	6.68
9	7.16	6.67	6.74	6.71	6.11	5.66	---	---	---	---	7.04	6.98
10	6.87	6.40	6.79	6.66	6.09	5.63	---	---	---	---	7.03	6.65
11	6.84	6.34	6.66	6.55	6.07	5.64	---	---	---	---	7.07	6.99
12	6.87	6.31	6.75	6.31	6.07	5.64	---	---	---	---	7.18	7.06
13	6.71	6.27	6.71	6.34	6.18	5.72	---	---	---	---	---	---
14	6.79	6.38	6.57	6.12	6.25	5.77	---	---	---	---	---	---
15	6.88	6.47	6.44	5.97	6.31	5.80	---	---	---	---	---	---
16	6.93	6.52	6.32	6.22	6.39	5.91	---	---	---	---	---	---
17	6.92	6.52	6.37	5.95	6.31	5.88	---	---	7.00	6.57	---	---
18	7.02	6.57	6.31	6.22	6.28	5.82	---	---	7.05	6.62	---	---
19	7.00	6.55	6.29	5.92	6.27	5.81	---	---	7.03	6.51	---	---
20	7.04	6.52	6.20	5.73	6.24	5.80	---	---	6.90	6.51	---	---
21	7.23	6.72	6.22	5.78	6.44	5.91	---	---	6.86	6.77	---	---
22	7.20	6.74	6.27	5.78	6.47	6.00	---	---	6.80	6.41	---	---
23	7.11	6.58	6.26	5.84	6.41	5.95	---	---	6.90	6.80	---	---
24	6.98	6.54	6.39	5.91	6.27	5.90	---	---	6.93	6.87	---	---
25	6.97	6.54	6.29	5.72	6.37	5.93	---	---	6.93	6.52	---	---
26	6.96	6.53	6.11	5.56	6.40	5.99	---	---	6.98	6.90	---	---
27	7.07	6.60	5.99	5.54	6.38	5.92	---	---	7.09	6.63	---	---
28	7.05	6.65	6.00	5.55	6.34	5.96	---	---	7.05	6.57	---	---
29	6.99	6.58	5.99	5.57	6.45	5.96	---	---	7.04	6.57	---	---
30	6.89	6.50	5.92	5.50	6.47	6.04	---	---	7.07	6.65	---	---
31	---	---	5.92	5.49	---	---	---	---	7.13	6.66	---	---
MONTH	7.25	6.27	6.96	5.49	6.47	5.48	6.50	6.01	7.13	6.41	7.24	6.55
YEAR	7.33	1.85										

Daily Low Water Levels



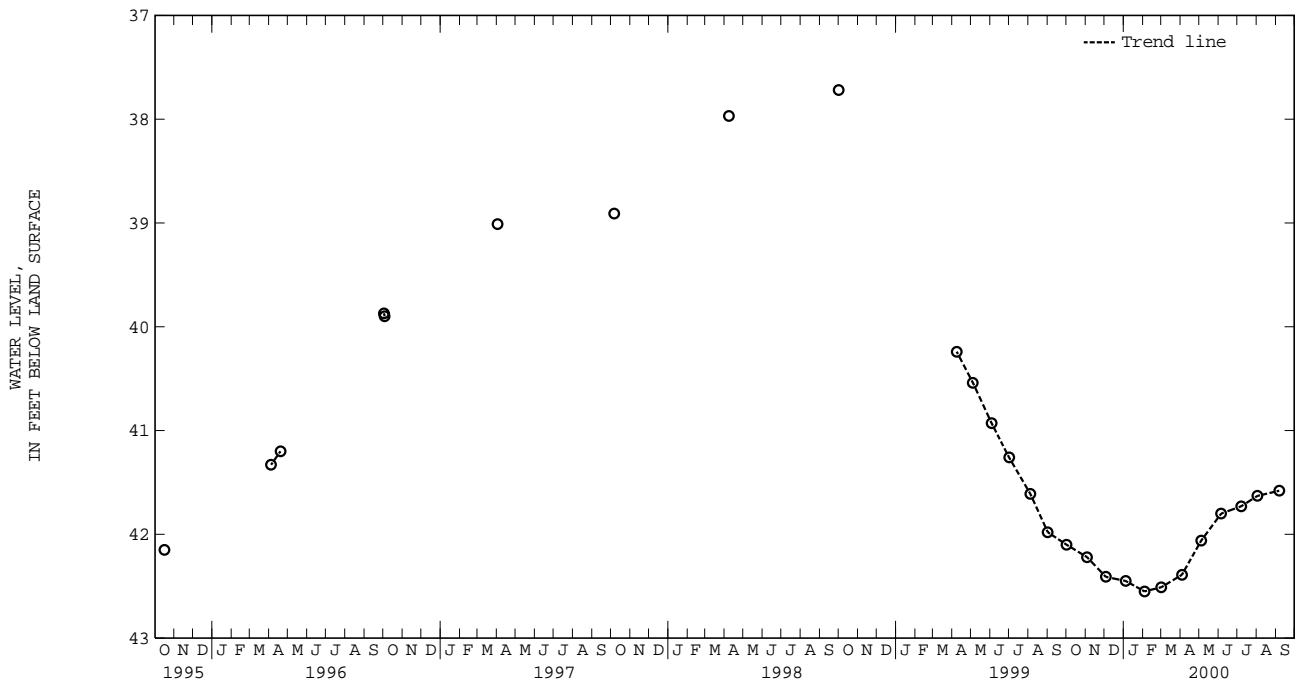
5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Cf 98. SITE ID.--390150076283003. PERMIT NUMBER.--AA-70-0199.
 LOCATION.--Lat 39°01'50", long 76°28'30", Hydrologic Unit 02060004, 3.1 mi northeast of Annapolis, near Anne Arundel Co. Traffic Engineering Building, Broad Neck.
 Owner: Anne Arundel Co. Dept. of Recreation and Parks.
 AQUIFER.--Severn Formation of Upper Cretaceous age. Aquifer code: 211SVRN.
 WELL CHARACTERISTICS.--Drilled, artesian, observation well, depth 100 ft; casing diameter 2 in., to 90 ft; screen diameter 2 in. from 90 to 100 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Measured twice yearly from September 1969 to September 1986, April 1989 to February 1999.
 DATUM.--Altitude of land surface is 93.42 ft above sea level.
 Measuring Point: Top of casing, 3.51 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well,
 PERIOD OF RECORD.--September 1969 to September 1986, April 1989 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.14 ft below land surface, Aug. 3, 1972; lowest measured, 44.39 ft below land surface, Nov. 15, 1988.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01, 1999	42.10	JAN 04, 2000	42.45	APR 03, 2000	42.39	JUL 07, 2000	41.73
NOV 03	42.22	FEB 03	42.55	MAY 04	42.06	AUG 02	41.63
DEC 03	42.41	MAR 01	42.51	JUN 05	41.80	SEP 06	41.58
WATER YEAR 2000 HIGHEST		41.58	SEP 06, 2000 LOWEST		42.55	FEB 03, 2000	



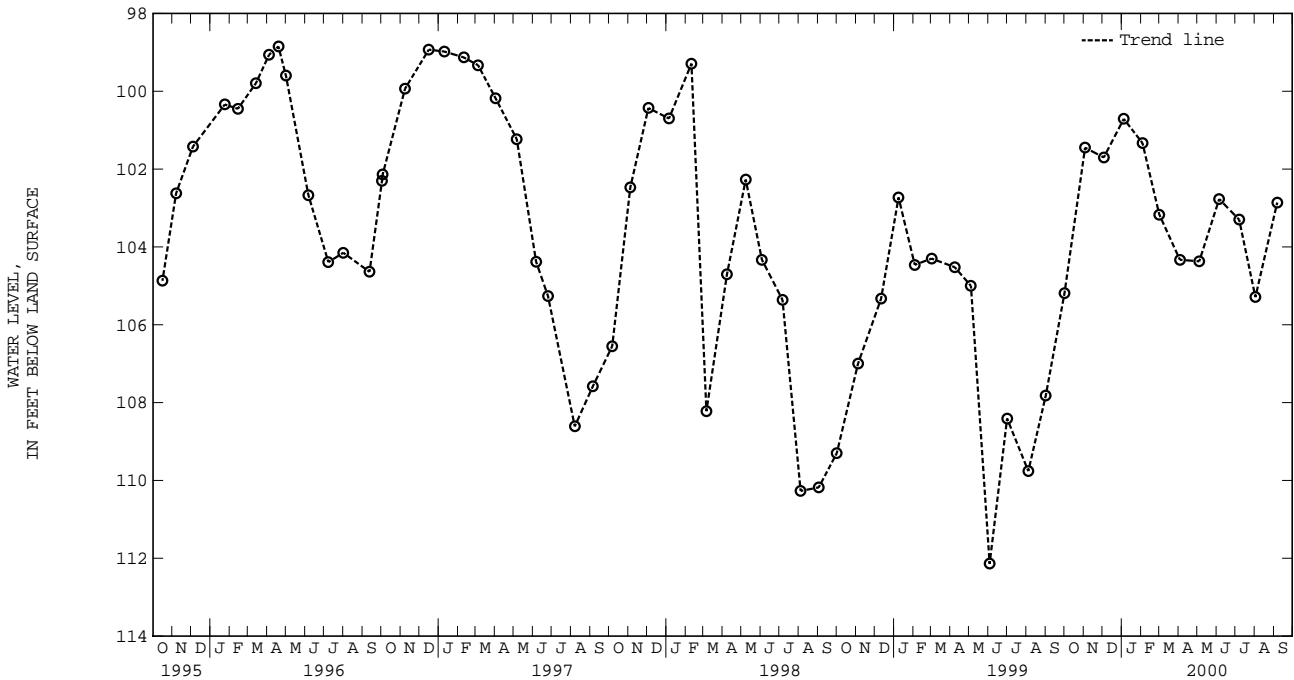
5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Cf 99. SITE ID.--390150076283002. PERMIT NUMBER.--AA-70-0199.
 LOCATION.--Lat 39°01'50", long 76°28'30", Hydrologic Unit 02060004, 3.1 mi northeast of Annapolis, near Anne Arundel Co. Traffic Engineering Building, Broad Neck.
 Owner: Anne Arundel Co. Dept. of Recreation and Parks.
 AQUIFER.--Magothy Formation of Upper Cretaceous age. Aquifer code: 211MGTY.
 WELL CHARACTERISTICS.--Drilled, artesian, observation well, depth 220 ft; casing diameter 2 in., to 210 ft; screen diameter 2 in. from 210 to 220 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder from Sept. 28, 1969 to July 13, 1971.
 DATUM.--Altitude of land surface is 93.70 ft above sea level.
 Measuring Point: Top of casing, 3.60 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.
 PERIOD OF RECORD.--January 1971 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 89.29 ft below land surface, April 13, 1976; lowest measured, 115.65 ft below land surface, July 11, 1988.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01, 1999	105.19	JAN 04, 2000	100.71	APR 03, 2000	104.33	JUL 07, 2000	103.30
NOV 03	101.45	FEB 03	101.33	MAY 04	104.37	AUG 02	105.29
DEC 03	101.70	MAR 01	103.17	JUN 05	102.77	SEP 06	102.86
WATER YEAR 2000 HIGHEST 100.71		JAN 04, 2000		LOWEST 105.29		AUG 02, 2000	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Cg 23. SITE ID.--390123076241602. PERMIT NUMBER.--AA-73-8959.

LOCATION.--Lat 39°01'23", long 76°24'16", Hydrologic Unit 02060004, 1500 ft northeast of Oceanic Dr. and South Beach Rd., at Sandy Point State Park.

Owner: U.S. Geological Survey

AQUIFER.--Lower Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 986 ft; casing diameter 10 in., to 163 ft;

casing diameter 4 in., to 968 ft and 978 to 986 ft; screen diameter 4 in. from 968 to 978 ft.

INSTRUMENTATION.-- Equipped with a graphic water-level recorder from Sept. 9, 1978 to Feb. 21, 1980. Equipped with

digital water-level recorder--60-minute recorder interval from Sept. 11, 1990 to current year.

DATUM.--Altitude of land surface is 12.57 ft above sea level.

Measuring Point: Top of recorder platform, 3.43 ft above land surface.

REMARKS.--Anne Arundel County Water-Level Monitoring Network. Water levels are affected by local ground-water withdrawal.

Missing data due to recorder malfunction.

PERIOD OF RECORD.-- September 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.07 ft above sea level, May 3, 1980;

lowest measured, 23.93 ft below sea level, Aug. 9, 1999.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	-21.10	-21.37	---	---
2	---	---	---	---	---	---	---	---	-21.37	-21.68	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	-22.64	-22.99	-22.82	-22.98	-21.75	-21.77	---	---	---	---
5	---	---	-22.93	-23.12	---	---	-21.75	-22.29	---	---	---	---
6	---	---	-22.99	-23.11	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	-20.25	-20.52
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	-22.08	-22.24	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	-21.77	-22.30	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	-22.86	-23.11	---	---	---	---	-20.74	-21.10	---	---
17	---	---	---	---	---	---	---	---	-20.96	-21.34	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	-22.95	-23.11	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	-22.06	-22.15	---	---	---	---	---	---
24	---	---	---	---	-22.03	-22.17	---	---	---	---	---	---
25	-22.42	-22.67	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	-21.54	-21.86	---	---	---	---	---	---
28	---	---	---	---	---	---	-21.62	-21.79	---	---	---	---
29	---	---	-23.11	-23.32	---	---	-21.61	-21.72	---	---	---	---
30	---	---	-23.30	-23.70	---	---	-21.10	-21.61	---	---	---	---
31	---	---	---	---	---	---	-21.00	-21.10	---	---	---	---
MONTH	-22.08	-22.67	-22.64	-23.70	-21.54	-22.98	-21.00	-22.30	-20.74	-21.68	-20.25	-20.52

GROUND-WATER LEVELS IN MARYLAND--Continued

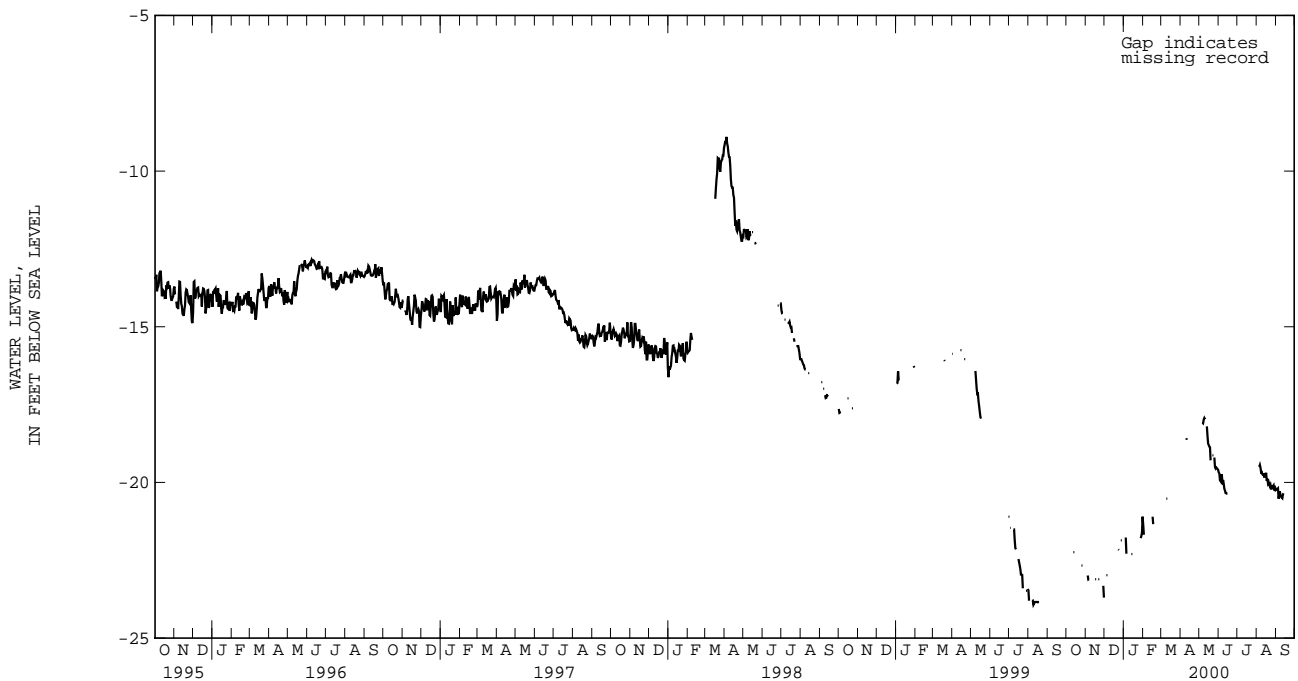
ANNE ARUNDEL COUNTY--Continued

AA Cg 23--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	-19.40	-19.68	---	---	---	---	-19.99	-20.24
2	---	---	---	---	-19.57	-19.71	---	---	---	---	-20.08	-20.23
3	---	---	---	---	-19.52	-19.93	---	---	---	---	-20.05	-20.21
4	---	---	---	---	-19.67	-19.96	---	---	---	---	-20.00	-20.19
5	---	---	---	---	-19.63	-19.84	---	---	-19.23	-19.50	-20.11	-20.52
6	---	---	-17.91	-18.08	-19.62	-19.74	---	---	-19.25	-19.44	-20.21	-20.41
7	---	---	-17.89	-18.10	-19.70	-20.06	---	---	-19.13	-19.53	-20.13	-20.29
8	---	---	-17.78	-17.98	-19.73	-19.92	---	---	-19.40	-19.68	-20.15	-20.41
9	---	---	-17.76	-17.93	-19.91	-20.04	---	---	-19.50	-19.67	-20.26	-20.46
10	-18.44	-18.58	-17.75	-17.97	-20.04	-20.20	---	---	-19.42	-19.74	-20.35	-20.49
11	-18.39	-18.63	---	---	-20.17	-20.26	---	---	-19.51	-19.75	-20.27	-20.51
12	---	---	---	---	-20.16	-20.34	---	---	-19.45	-19.74	-20.12	-20.38
13	---	---	-17.94	-18.20	-20.19	-20.34	---	---	-19.57	-19.84	-20.13	-20.35
14	---	---	-18.14	-18.50	-20.18	-20.36	---	---	-19.57	-19.72	---	---
15	---	---	-18.46	-18.75	-20.19	-20.36	---	---	-19.52	-19.79	---	---
16	---	---	-18.67	-18.80	---	---	---	---	-19.48	-19.69	---	---
17	---	---	-18.60	-18.85	---	---	---	---	-19.59	-19.95	---	---
18	---	---	-18.80	-18.87	---	---	---	---	-19.56	-19.88	---	---
19	---	---	-18.87	-19.29	---	---	---	---	-19.56	-20.03	---	---
20	---	---	---	---	---	---	---	---	-19.83	-19.99	---	---
21	---	---	---	---	---	---	---	---	-19.89	-20.08	---	---
22	---	---	-18.90	-19.13	---	---	---	---	-19.96	-20.13	---	---
23	---	---	---	---	---	---	---	---	-19.90	-20.08	---	---
24	---	---	---	---	---	---	---	---	-19.81	-20.20	---	---
25	---	---	-19.00	-19.20	---	---	---	---	-20.00	-20.20	---	---
26	---	---	-19.20	-19.50	---	---	---	---	-19.91	-20.18	---	---
27	---	---	-19.44	-19.55	---	---	---	---	-19.80	-20.12	---	---
28	---	---	-19.43	-19.52	---	---	---	---	-19.83	-20.09	---	---
29	---	---	-19.42	-19.54	---	---	---	---	-20.03	-20.24	---	---
30	---	---	-19.41	-19.57	---	---	---	---	-20.03	-20.25	---	---
31	---	---	-19.40	-19.59	---	---	---	---	-19.98	-20.19	---	---
MONTH	-18.39	-18.63	-17.75	-19.59	-19.40	-20.36			-19.13	-20.25	-19.99	-20.52
YEAR	-17.75	-23.70										

Daily Low Water Levels



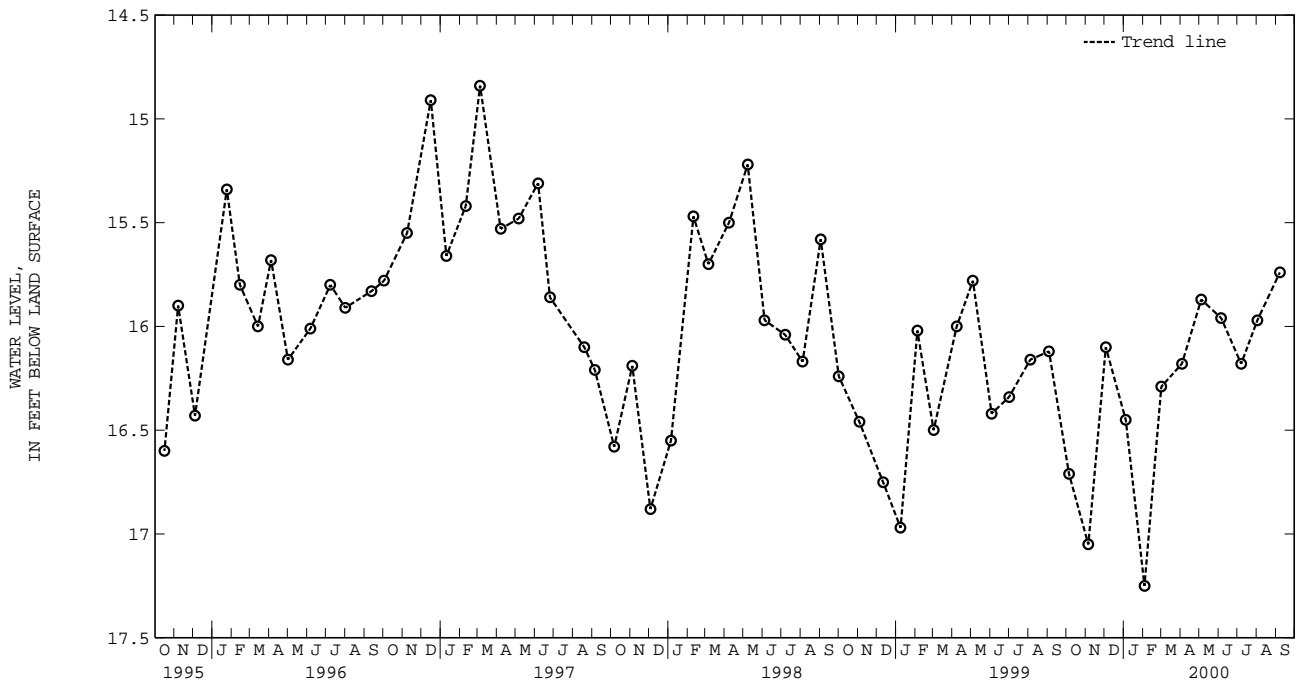
5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Cg 25. SITE ID.--390127076240301. PERMIT NUMBER.--AA-74-1240.
 LOCATION.--Lat 39°01'27", long 76°24'03", Hydrologic Unit 02060004, at Sandy Point State Park, near maintenance area.
 Owner: Maryland Department of Natural Resources.
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 107 ft; casing diameter 3 in., to 100 ft;
 screen diameter 3 in. from 100 to 107 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Altitude of land surface is 17.33 ft above sea level.
 Measuring Point: Top of casing, 2.43 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well.
 PERIOD OF RECORD.--April 1981 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.74 ft below land surface, April 13, 1988;
 lowest measured, 18.25 ft below land surface, Oct. 1, 1986.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	16.71	JAN 04, 2000	16.45	APR 03, 2000	16.18	JUL 07, 2000	16.18
NOV 05	17.05	FEB 03	17.25	MAY 04	15.87	AUG 02	15.97
DEC 03	16.10	MAR 01	16.29	JUN 05	15.96	SEP 07	15.74
WATER YEAR 2000 HIGHEST 15.74		SEP 07, 2000		LOWEST 17.25		FEB 03, 2000	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

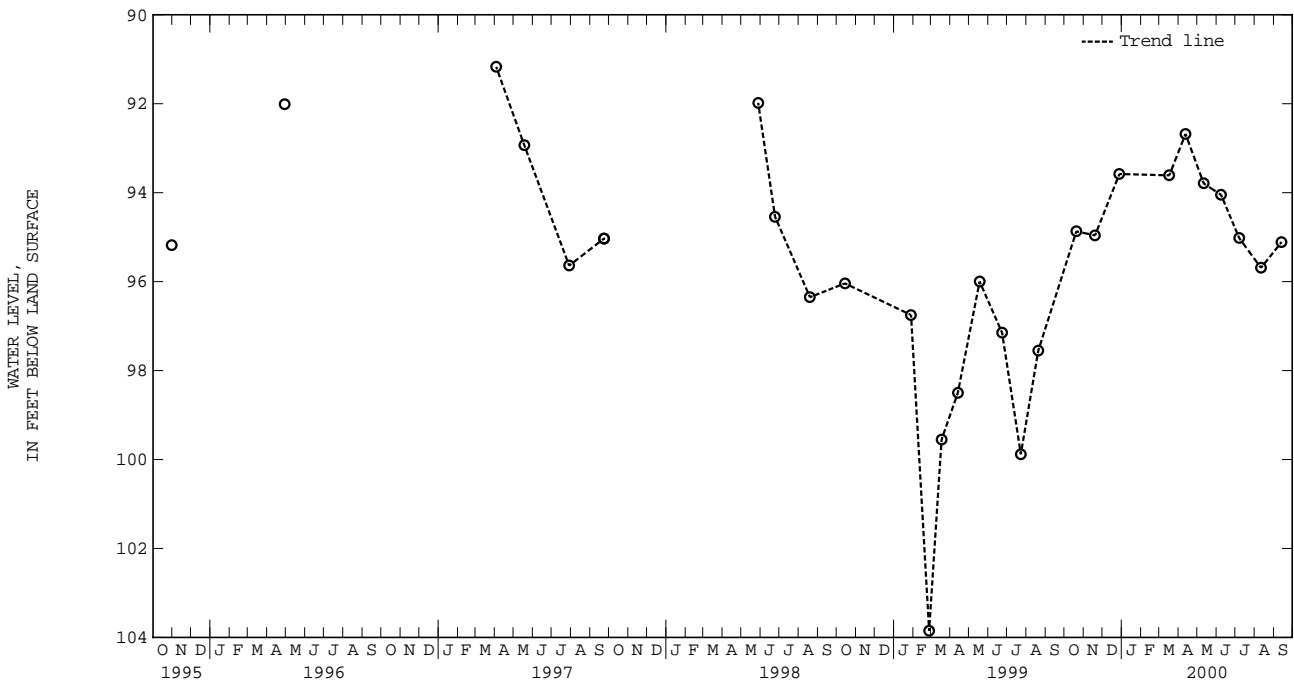
GROUND-WATER LEVELS IN MARYLAND--Continued

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Dd 42. SITE ID.--385808076373502. PERMIT NUMBER.--AA-71-0231.
 LOCATION.--Lat 38°58'08", long 76°37'35", Hydrologic Unit 02060004, 30 ft south of MD Rt 50, 0.5 mi from intersection with Howard Grove Rd. and Rutland Rd.
 Owner: U.S. Geological Survey.
 AQUIFER.--Magothy Formation of Upper Cretaceous age. Aquifer code: 211MGTY.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 275 ft; casing diameter 4 in., to 190 ft; casing diameter 2 in., from 200 to 225 ft, and 235 to 265 ft. screen diameter 2 in. from 190 to 200 ft., 225 to 235 ft, and 265 to 275 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder from December 1971 to August 1975 and with a digital water-level recorder--30-minute recorder interval from August 1975 to May 10, 1992.
 DATUM.--Altitude of land surface is 105.48 ft above sea level.
 Measuring Point: Top of casing, .72 ft above land surface.
 REMARKS.--Anne Arundel County Water-Level Monitoring Network. Water levels are affected by local ground-water withdrawal.
 PERIOD OF RECORD.--October 1970 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 80.25 ft below land surface May 4, 1973.
 lowest measured, 103.85 ft below land surface, Feb. 26, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20, 1999	94.87	MAR 17, 2000	93.61	JUN 08, 2000	94.05	SEP 13, 2000	95.11
NOV 19	94.96	APR 12	92.68	JUL 07	95.02		
DEC 28	93.58	MAY 11	93.79	AUG 11	95.69		
WATER YEAR 2000 HIGHEST		92.68	APR 12, 2000		LOWEST		95.69
							AUG 11, 2000



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA De 1. SITE ID.--385915076340401.

LOCATION.--Lat 38°59'15", long 76°34'03", Hydrologic Unit 02060004, 0.07 mi north of MD Rt 450, 1.1 mi west of Generals Highway.
 Owner: City of Annapolis.

AQUIFER.--Magothy Formation of Upper Cretaceous age. Aquifer code: 211MGTY.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 237 ft; casing diameter 10 in., to 207 ft; screen diameter 6 in. from 207 to 237 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder from May 1969 to Dec. 28, 1977 and with a digital water-level recorder--15-minute recorder interval from December 1977 to September 1996.

DATUM.--Altitude of land surface is 13.72 ft above sea level, from topographic map.

Measuring Point: Top of recorder platform, 2.00 ft above land surface.

REMARKS.--Anne Arundel County Water-Level Monitoring Network. Water levels are affected by local ground-water withdrawal.

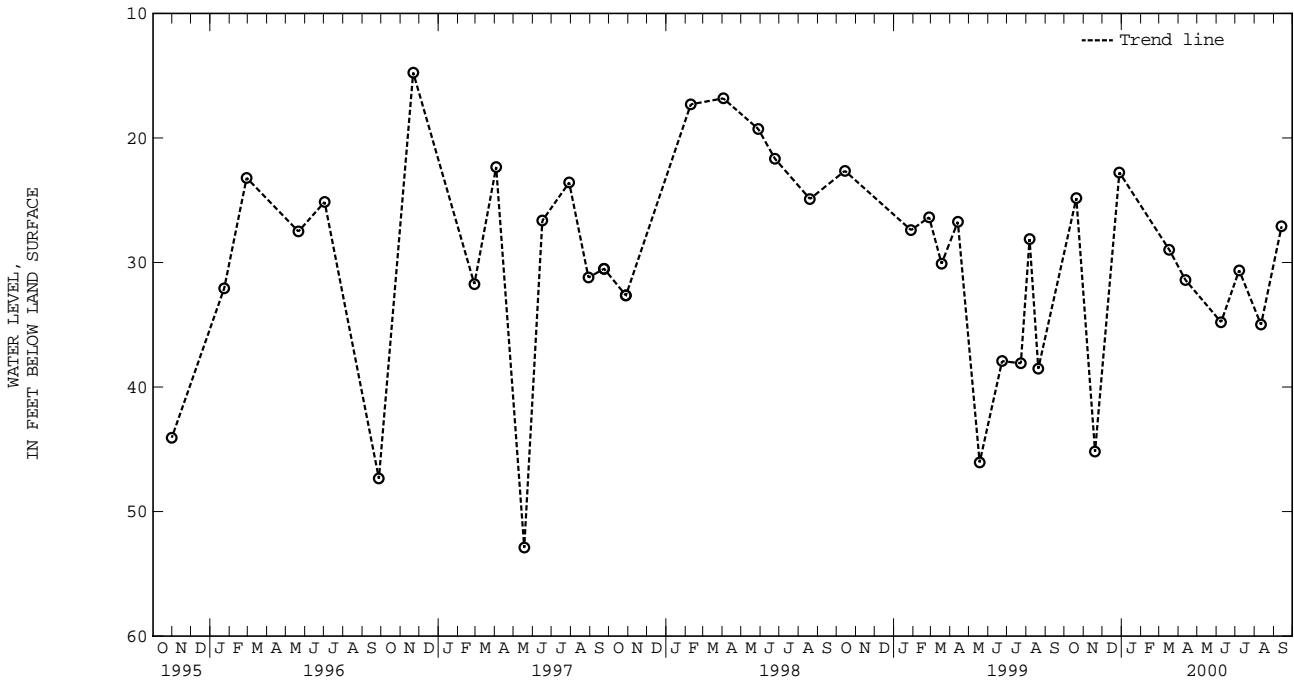
PERIOD OF RECORD.--May 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.25 ft below land surface, Nov. 14, 1988;
 lowest measured, 52.90 ft below land surface, May 18, 1997.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20, 1999	24.83	MAR 17, 2000	28.98	JUL 07, 2000	30.63
NOV 19	45.19	APR 12	31.41	AUG 11	34.99
DEC 28	22.77	JUN 08	34.79	SEP 13	27.09

WATER YEAR 2000 HIGHEST 22.77 DEC 28, 1999 LOWEST 34.99 AUG 11, 2000



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Df 19. SITE ID.--385921076270701.

LOCATION.--Lat 38°59'22", long 76°27'04", Hydrologic Unit 02060004, 200 ft east of intersection with McLean and Hooper Rd.
 Owner: U.S. Navy.

AQUIFER.--Upper Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 590 ft; casing diameter 10 in., to 565 ft; screen diameter 10 in. from 565 to 590 ft.

INSTRUMENTATION.--Periodic measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder from November 1979 to April 1980.

DATUM.--Altitude of land surface is 13 ft above sea level, from topographic map.
 Measuring Point: Top of casing, 2.5 ft above land surface.

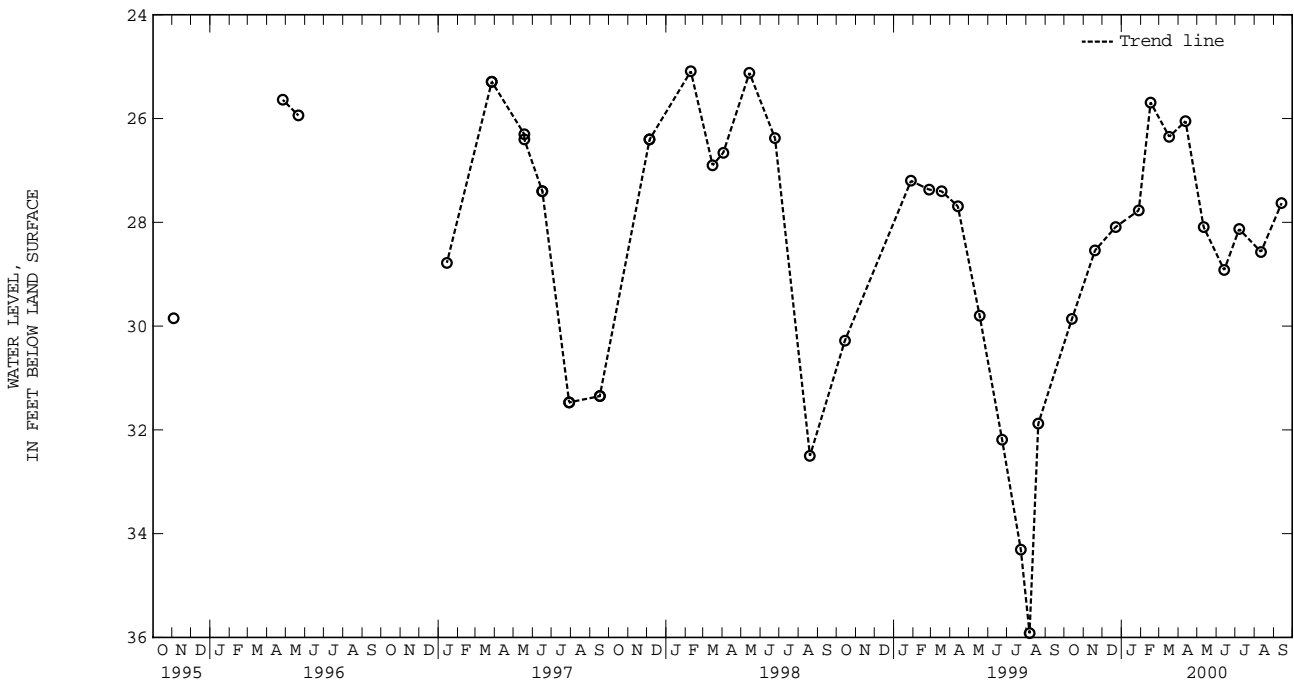
REMARKS.--Southern Maryland Observation Well Network. Water levels are affected by local withdrawal.

PERIOD OF RECORD.--March 1977 to current year

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.34 ft below land surface, March 9, 1977;
 lowest measured, 35.92 ft below land surface, Aug. 6, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1999	29.86	JAN 28, 2000	27.77	APR 12, 2000	26.05	JUL 07, 2000	28.13
NOV 19	28.54	FEB 16	25.69	MAY 11	28.09	AUG 11	28.57
DEC 22	28.09	MAR 17	26.35	JUN 13	28.92	SEP 13	27.63
WATER YEAR 2000 HIGHEST		26.05	APR 12, 2000		LOWEST		29.86
							OCT 13, 1999



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Df 20. SITE ID.--385916076270702.

LOCATION.--Lat 38°59'16", long 76°27'07", Hydrologic Unit 02060004, off Hooper Rd., 400 ft from McLean Rd.

Owner: U.S. Navy.

AQUIFER.--Magothy Formation of Upper Cretaceous age. Aquifer code: 211MGTY.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 255 ft; casing diameter 10 in., to 150 ft; casing diameter 8 in. from 135 to 233 ft; screen diameter 8 in. from 233 to 253 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder from June 1969 to December 1977. Equipped with digital water-level recorder--30-minute recorder interval from December 1977 to current year.

DATUM.--Altitude of land surface is 21.62 ft above sea level.

Measuring Point: Top of recorder platform, 3.0 ft above land surface.

REMARKS.--Anne Arundel Co. observation well network. Water levels are affected by local ground-water withdrawal.

Missing data due to recorder malfunction.

PERIOD OF RECORD.--June 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.91 ft below sea level, June 20, 1980;

lowest measured, 16.42 ft below sea level, Sept. 19, and 21, 1995.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	-11.16	-11.20	---	---	---	---
2	---	---	-11.88	-12.32	---	---	---	---	---	---	---	---
3	---	---	-11.63	-11.88	-11.60	-11.94	---	---	---	---	---	---
4	---	---	-11.70	-11.90	---	---	---	---	---	---	---	---
5	---	---	-11.90	-12.07	---	---	-10.78	-10.84	---	---	-10.27	-10.29
6	---	---	-12.07	-12.16	---	---	---	---	---	---	---	---
7	---	---	-12.16	-12.24	-11.64	-11.77	---	---	---	---	---	---
8	---	---	-12.20	-12.27	---	---	-10.82	-10.86	---	---	---	---
9	---	---	---	---	---	---	-10.74	-10.82	---	---	---	---
10	---	---	---	---	---	---	-10.44	-10.74	---	---	-10.26	-10.28
11	---	---	---	---	-11.83	-11.87	-10.35	-10.44	---	---	---	---
12	---	---	---	---	---	---	-10.35	-10.46	---	---	---	---
13	---	---	---	---	---	---	-10.46	-10.51	---	---	-10.27	-10.37
14	---	---	---	---	-11.65	-11.91	-10.51	-10.89	-9.98	-10.25	---	---
15	---	---	---	---	-11.51	-11.65	-10.89	-10.92	-9.98	-10.08	---	---
16	---	---	---	---	---	---	-10.49	-10.91	---	---	---	---
17	---	---	-11.92	-11.99	---	---	-10.49	-10.70	-10.08	-10.24	---	---
18	---	---	-11.98	-11.99	-11.48	-11.58	-10.70	-10.78	-10.24	-10.26	---	---
19	---	---	---	---	---	---	-10.35	-10.74	---	---	---	---
20	---	---	---	---	---	---	-9.94	-10.35	---	---	---	---
21	---	---	---	---	---	---	-9.95	-10.21	---	---	---	---
22	-12.25	-12.57	---	---	---	---	-10.21	-10.32	---	---	---	---
23	---	---	---	---	-11.54	-11.57	-10.32	-10.35	---	---	---	---
24	---	---	---	---	-11.55	-11.56	---	---	---	---	---	---
25	---	---	---	---	-11.56	-11.61	---	---	---	---	---	---
26	---	---	---	---	-11.30	-11.61	-10.43	-10.48	---	---	---	---
27	---	---	-11.65	-11.69	-11.28	-11.30	-10.40	-10.50	---	---	---	---
28	---	---	-11.66	-11.68	-11.30	-11.30	-10.50	-10.64	---	---	---	---
29	---	---	-11.68	-11.75	-11.24	-11.30	---	---	---	---	---	---
30	---	---	-11.75	-11.94	-11.15	-11.24	---	---	---	---	---	---
31	---	---	---	---	-11.15	-11.16	---	---	---	---	-10.16	-10.24
MONTH	-12.25	-12.57	-11.63	-12.32	-11.15	-11.94	-9.94	-11.20	-9.98	-10.26	-10.16	-10.37

GROUND-WATER LEVELS IN MARYLAND--Continued

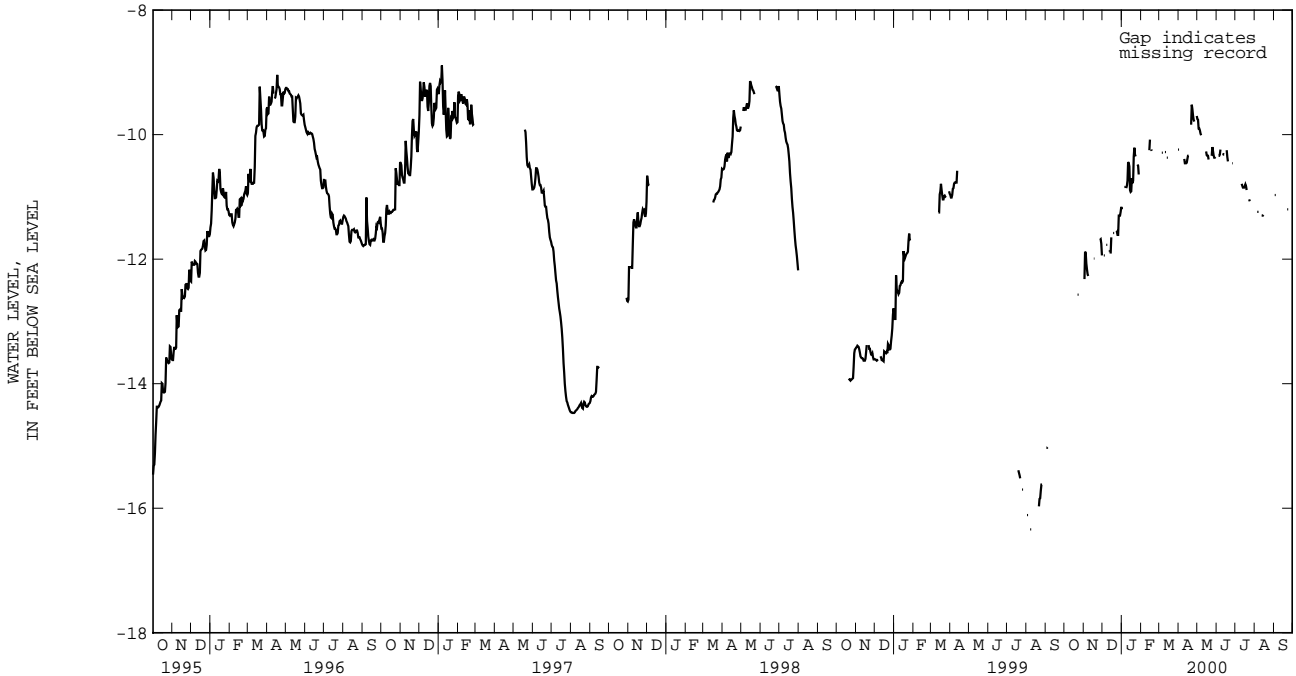
ANNE ARUNDEL COUNTY--Continued

AA Df 20--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	-9.70	-9.75	---	---	---	---	---	---	---	---
2	---	---	-9.74	-9.76	---	---	---	---	---	---	-10.94	-10.97
3	---	---	-9.76	-9.90	---	---	---	---	---	---	---	---
4	---	---	-9.90	-9.90	-10.32	-10.34	---	---	---	---	---	---
5	---	---	-9.90	-9.93	-10.32	-10.34	---	---	-11.19	-11.24	---	---
6	---	---	-9.93	-9.98	-10.23	-10.32	---	---	-11.24	-11.24	---	---
7	---	---	-9.98	-10.01	-10.23	-10.24	---	---	-11.23	-11.24	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	-10.29	-10.39	---	---	---	---	---	---	---	---	---	---
11	-10.39	-10.46	---	---	-10.26	-10.30	-10.73	-10.79	---	---	---	---
12	-10.45	-10.46	---	---	-10.30	-10.32	-10.79	-10.82	-11.30	-11.30	---	---
13	-10.45	-10.46	---	---	-10.32	-10.32	-10.82	-10.85	-11.30	-11.30	---	---
14	-10.39	-10.45	---	---	---	---	-10.85	-10.85	-11.29	-11.30	---	---
15	-10.34	-10.39	-10.17	-10.27	---	---	-10.83	-10.85	-11.17	-11.29	---	---
16	-10.34	-10.34	-10.27	-10.33	---	---	-10.80	-10.83	---	---	---	---
17	-10.27	-10.34	-10.33	-10.34	-10.24	-10.25	-10.80	-10.80	---	---	---	---
18	---	---	-10.33	-10.34	-10.25	-10.36	-10.80	-10.83	---	---	---	---
19	---	---	-10.34	-10.40	-10.36	-10.43	-10.83	-10.89	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	-9.47	-9.84	---	---	---	---	---	---	---	---	---	---
22	-9.47	-9.52	---	---	---	---	---	---	---	---	-11.16	-11.20
23	-9.52	-9.59	---	---	---	---	-10.98	-11.04	---	---	---	---
24	-9.59	-9.69	-10.20	-10.34	---	---	-11.04	-11.07	---	---	---	---
25	-9.69	-9.76	-10.20	-10.20	---	---	---	---	---	---	---	---
26	-9.75	-9.79	-10.20	-10.26	-10.45	-10.46	---	---	---	---	---	---
27	---	---	-10.26	-10.33	-10.45	-10.46	---	---	---	---	---	---
28	---	---	-10.33	-10.37	---	---	---	---	---	---	---	---
29	---	---	-10.36	-10.37	---	---	---	---	---	---	---	---
30	-9.58	-9.70	-10.35	-10.36	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	-9.47	-10.46	-9.70	-10.40	-10.23	-10.46	-10.73	-11.07	-11.17	-11.30	-10.94	-11.20
YEAR	-9.47	-12.57										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Df 79. SITE ID.--385905076293601. PERMIT NUMBER.--AA-03-7867.

LOCATION.--Lat 38°59'05", long 76°29'36", Hydrologic Unit 02060004, off Dorsy Creek Rd., 500 ft north of MD Rt. 450.

Owner: U.S.Navy.

AQUIFER.--Magothy Formation of Upper Cretaceous age and Upper Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 211MGTY and 217PPSCU.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 705 ft; casing diameter 6 in., to 300 ft; 320 to 572 ft and 592 to 675 ft; screen diameter 6 in. from 300 to 320 ft, 572 to 592 ft and 675 to 695 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder from May 20, 1969 to Dec. 19, 1977. Equipped with digital water-level recorder--60-minute recorder interval from Dec. 19, 1977 to current year.

DATUM.--Altitude of land surface is 5.17 ft above sea level.

Measuring Point: Top of recorder platform, 2.8 ft above land surface.

REMARKS.--Anne Arundel County observation well network. Water levels are affected by local ground-water withdrawal.

Missing data due to recorder malfunction.

PERIOD OF RECORD.--May 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.12 ft below sea level, Jan. 4, 1982;
lowest measured, 17.16 ft below sea level, Sept. 15, 1995.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-11.58	-12.03	-10.19	-10.44	-10.79	-11.15	-8.97	-9.46	-8.77	-9.04	-9.20	-9.69
2	-11.58	-11.82	-9.63	-10.24	-10.47	-10.95	-8.84	-9.30	-9.02	-9.26	-9.20	-9.55
3	-11.52	-11.72	-9.61	-10.32	-10.36	-10.62	-8.93	-9.30	-8.80	-9.26	-9.52	-9.78
4	-11.40	-11.70	-10.21	-10.46	-10.48	-10.86	-8.87	-9.30	-8.67	-9.01	-9.34	-9.70
5	-11.44	-11.84	-10.36	-10.57	-10.37	-10.91	-9.20	-9.60	-8.65	-8.93	-9.33	-9.66
6	-11.10	-11.75	-10.31	-10.64	-10.29	-10.79	-9.09	-9.47	-8.82	-9.14	-9.37	-9.76
7	-11.26	-11.52	-10.47	-10.76	-10.62	-11.11	-9.04	-9.38	-8.77	-9.15	-9.42	-9.84
8	-11.19	-11.49	-10.20	-10.76	-10.54	-10.91	-9.00	-9.26	-8.91	-9.29	-9.44	-9.66
9	-11.13	-11.42	-10.03	-10.30	-10.47	-10.74	-8.87	-9.30	-8.65	-9.15	-9.48	-9.69
10	-10.95	-11.42	-10.19	-10.37	-10.23	-10.71	-8.58	-9.05	-8.63	-8.89	-9.61	-10.08
11	-10.84	-11.35	-10.36	-10.65	-10.47	-10.86	-8.64	-9.04	-8.56	-9.03	-9.68	-10.16
12	-10.95	-11.44	-10.18	-10.65	-10.60	-11.03	-9.04	-9.38	-8.77	-9.09	-9.51	-10.22
13	-10.83	-11.25	-10.27	-10.50	-10.24	-10.79	-8.98	-9.61	-8.66	-9.01	-10.00	-10.31
14	-10.91	-11.32	-10.19	-10.44	-10.01	-10.47	-9.50	-9.94	-8.37	-8.83	-9.69	-10.05
15	-11.11	-11.35	-10.31	-10.80	-9.91	-10.33	-9.32	-9.64	-8.69	-9.19	-9.51	-9.93
16	-10.97	-11.39	-10.47	-10.88	-9.91	-10.34	-8.88	-9.34	-8.56	-9.14	-9.33	-9.82
17	-10.69	-11.27	-10.66	-11.00	-10.11	-10.30	-9.32	-9.73	-8.94	-9.41	-9.38	-9.84
18	-10.69	-11.24	-10.51	-10.90	-10.16	-10.50	-9.02	-9.68	-8.86	-9.23	-9.45	-9.98
19	-10.81	-11.06	-10.59	-10.90	-10.04	-10.46	-8.68	-9.06	-8.74	-9.31	-9.05	-9.58
20	-10.73	-10.99	-10.58	-10.95	-9.60	-10.16	-8.39	-8.99	-8.97	-9.39	-8.86	-9.30
21	-10.81	-11.05	-10.59	-10.99	-9.59	-10.02	-8.87	-9.18	-8.95	-9.38	-8.69	-9.21
22	-10.41	-10.93	-10.71	-11.04	-9.67	-10.05	-8.77	-9.28	-9.14	-9.52	-8.82	-9.26
23	-10.47	-10.83	-10.71	-11.11	-9.57	-10.05	-8.79	-9.10	-9.20	-9.57	-8.74	-9.06
24	-10.48	-10.92	-10.68	-11.12	-9.59	-9.89	-8.84	-9.10	-9.23	-9.52	-8.63	-9.09
25	-10.64	-11.07	-10.75	-11.12	-9.46	-9.94	-8.84	-9.09	-9.26	-9.58	-8.66	-9.04
26	-10.49	-10.82	-10.37	-10.95	-9.07	-9.60	-8.65	-9.01	-9.27	-9.79	-8.57	-8.95
27	-10.60	-10.96	-10.39	-10.67	-9.21	-9.56	-8.70	-9.29	-9.10	-9.45	-8.33	-8.93
28	-10.53	-11.00	-10.46	-10.87	-9.12	-9.49	-9.25	-9.45	-9.19	-9.48	-8.28	-8.61
29	-10.44	-10.85	-10.54	-10.91	-9.08	-9.28	-9.20	-9.45	-9.47	-9.80	-8.46	-8.77
30	-10.49	-10.74	-10.61	-11.23	-8.86	-9.42	-8.80	-9.37	---	---	-8.57	-8.88
31	-10.26	-10.63	---	---	-9.18	-9.49	-8.62	-8.93	---	---	-8.68	-8.92
MONTH	-10.26	-12.03	-9.61	-11.23	-8.86	-11.15	-8.39	-9.94	-8.37	-9.80	-8.28	-10.31

GROUND-WATER LEVELS IN MARYLAND--Continued

ANNE ARUNDEL COUNTY--Continued

AA Df 79--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-8.57	-8.89	-8.09	-8.53	-8.68	-9.10	-9.59	-9.92	-10.74	-11.24	-10.27	-10.54
2	-8.47	-8.89	-8.10	-8.64	-8.75	-9.13	-9.57	-9.92	-10.69	-11.16	-10.29	-10.73
3	-8.45	-8.84	-8.30	-8.64	-8.71	-9.18	-9.48	-9.85	-10.71	-11.19	-10.12	-10.66
4	-8.34	-8.73	-8.24	-8.74	-8.76	-9.19	-9.55	-9.81	-10.73	-11.17	-10.14	-10.41
5	-8.70	-9.02	-8.23	-8.74	-8.70	-9.00	-9.62	-9.85	-10.72	-11.03	-10.17	-10.70
6	-8.47	-9.02	-8.39	-8.88	-8.70	-9.08	-9.64	-9.86	-10.25	-10.85	-10.18	-10.47
7	-8.49	-8.88	-8.40	-8.85	---	---	-9.71	-10.37	-10.25	-10.85	-10.16	-10.46
8	-8.12	-8.76	-8.35	-8.76	---	---	-10.25	-10.54	-10.36	-10.86	-10.34	-10.74
9	-8.40	-8.79	-8.45	-8.79	-9.08	-9.34	-10.28	-10.44	-10.36	-10.66	-10.55	-10.83
10	-8.50	-8.84	-8.67	-9.00	-9.20	-9.62	-10.29	-10.72	-10.29	-10.76	-10.65	-10.99
11	-8.50	-8.94	-8.80	-9.27	-9.28	-9.63	-10.50	-10.79	-10.28	-10.50	-10.68	-10.88
12	-8.34	-8.82	-8.68	-9.13	-9.33	-9.66	-10.52	-10.88	-10.32	-10.53	-10.71	-11.00
13	-8.71	-8.93	-8.91	-9.36	-9.40	-9.79	-10.60	-10.83	-10.15	-10.68	-10.53	-11.09
14	-8.47	-8.72	-9.04	-9.48	-9.32	-9.82	-10.60	-10.81	-10.20	-10.61	-10.61	-10.87
15	-8.42	-8.70	-9.23	-9.54	-9.38	-9.89	-10.36	-10.63	-10.13	-10.49	-10.39	-10.93
16	-8.34	-8.57	-9.32	-9.74	-9.38	-9.85	-10.41	-10.69	-10.09	-10.54	-10.77	-11.08
17	-8.12	-8.57	-9.32	-9.64	-9.57	-10.04	-10.43	-10.85	-10.32	-10.57	-10.78	-11.09
18	-8.11	-8.46	-9.48	-9.75	-9.69	-10.10	-10.62	-10.89	-10.09	-10.67	-10.81	-11.09
19	-8.24	-8.55	-9.62	-10.09	-9.63	-10.05	-10.81	-11.09	-10.30	-10.54	-10.86	-11.11
20	-8.10	-8.66	-9.62	-10.15	-9.70	-10.05	-11.01	-11.20	-10.17	-10.52	-10.93	-11.21
21	-7.86	-8.42	-9.58	-9.90	-9.51	-10.00	-10.89	-11.14	-10.19	-10.51	-10.95	-11.33
22	-8.06	-8.44	-9.45	-9.75	-9.48	-9.89	-11.28	-11.28	-10.33	-10.61	-11.17	-11.58
23	-8.05	-8.46	-9.32	-9.90	-9.60	-9.91	-11.19	-11.40	-10.28	-10.54	-11.01	-11.35
24	-8.11	-8.50	-9.20	-9.59	-9.57	-9.99	-11.19	-11.39	-10.27	-10.75	-10.93	-11.28
25	-8.14	-8.54	-9.27	-9.61	-9.48	-9.78	-11.14	-11.52	-10.40	-10.68	-11.06	-11.43
26	-8.03	-8.56	-9.39	-9.73	-9.50	-9.79	-11.11	-11.35	-10.30	-10.76	-11.03	-11.33
27	-7.88	-8.28	-9.31	-9.58	-9.60	-9.92	-11.10	-11.36	-10.12	-10.58	-10.86	-11.33
28	-8.08	-8.39	-9.10	-9.54	-9.74	-9.96	-11.02	-11.27	-10.15	-10.52	-10.96	-11.27
29	-8.34	-8.59	-8.94	-9.21	-9.57	-9.81	-10.95	-11.22	-10.14	-10.64	-11.01	-11.39
30	-8.42	-8.59	-8.84	-9.18	-9.49	-9.89	-10.90	-11.19	-10.12	-10.41	-10.75	-11.27
31	---	---	-8.80	-9.18	---	---	-10.76	-11.16	-10.02	-10.44	---	---
MONTH	-7.86	-9.02	-8.09	-10.15	---	---	-9.48	-11.52	-10.02	-11.24	-10.12	-11.58

Daily Low Water Levels



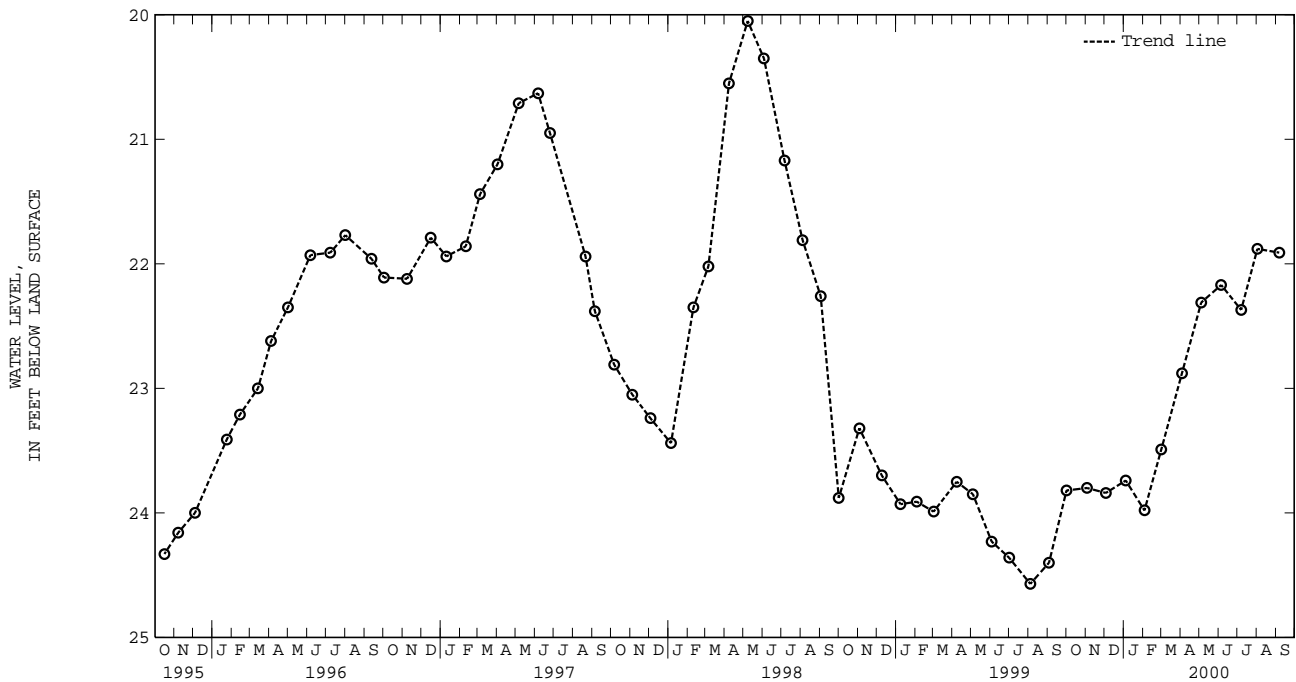
5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Df 103. SITE ID.--385623076274401. PERMIT NUMBER.--AA-73-3315.
 LOCATION.--Lat 38°56'23", long 76°27'44", Hydrologic Unit 02060004, off West Lake Dr, 900 ft north of intersection with Farragut Rd.
 Owner: Mildred Hudson.
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.
 WELL CHARACTERISTICS.--Drilled, unused, artesian well, depth 46 ft; casing diameter 4 in., to 39 ft; screen diameter 2 in. from 39 to 46 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Altitude of land surface is 26.51 ft above sea level.
 Measuring Point: Top of casing, 2.57 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well.
 PERIOD OF RECORD.--May 1987, January 1988 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.05 ft below land surface, May 8, 1998;
 lowest measured, 25.39 ft below land surface, April 9, 1990.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01, 1999	23.82	JAN 04, 2000	23.74	APR 03, 2000	22.88	JUL 07, 2000	22.37
NOV 03	23.80	FEB 03	23.98	MAY 04	22.31	AUG 02	21.88
DEC 03	23.84	MAR 01	23.49	JUN 05	22.17	SEP 06	21.91
WATER YEAR 2000 HIGHEST 21.88		AUG 02, 2000		LOWEST 23.98		FEB 03, 2000	



GROUND-WATER LEVELS IN MARYLAND--Continued

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Ed 45. SITE ID.--385406076383901. PERMIT NUMBER.--AA-74-1005.

LOCATION.--Lat 38°54'06", long 76°38'39", Hydrologic Unit 02060006, at Anne Arundel County Police Academy, near Davidsonville.

Owner: U.S. Geological Survey.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 157 ft; casing diameter 4 in., to 147 ft; screen diameter 2 in. from 147 to 157 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Altitude of land surface is 100 ft above sea level, from topographic map.

Measuring point: Top of coupling, 0.87 ft above land surface.

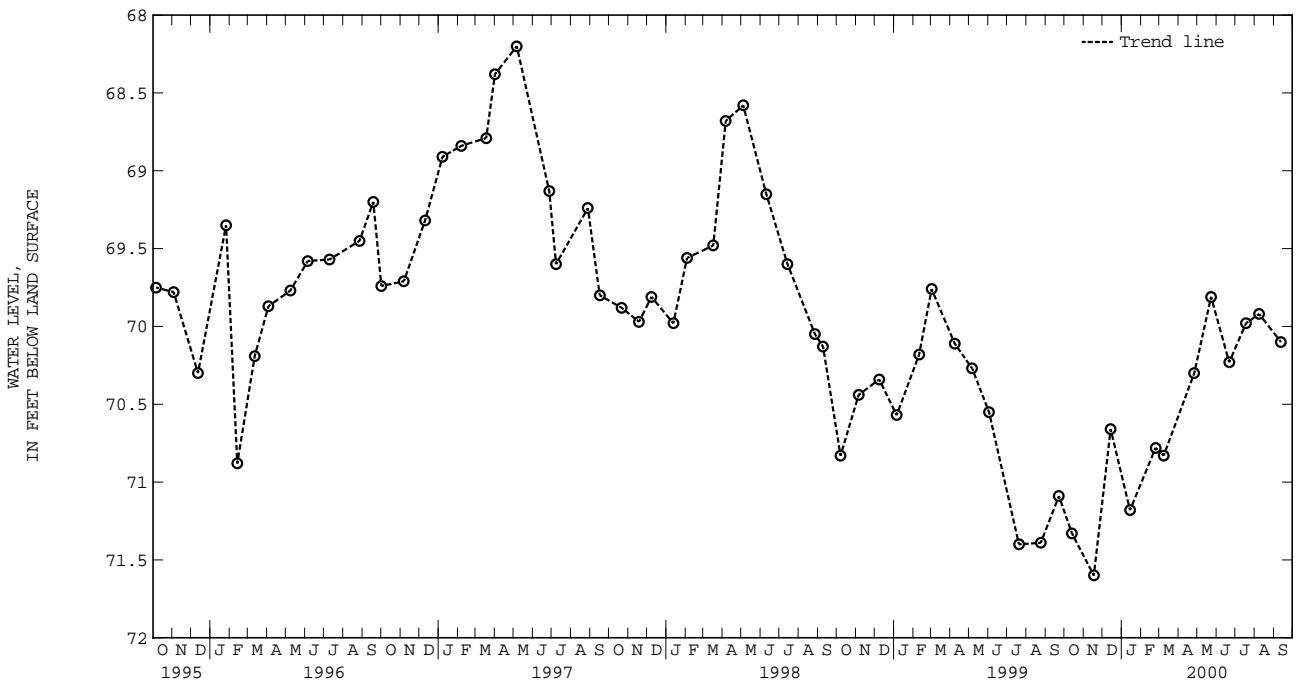
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--August 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 63.51 ft below land surface, May 6, 1980; lowest measured, 71.60 ft below land surface, Nov.17, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1999	71.33	JAN 14, 2000	71.18	APR 26, 2000	70.30	JUL 18, 2000	69.98
NOV 17	71.60	FEB 24	70.78	MAY 23	69.81	AUG 08	69.92
DEC 14	70.66	MAR 08	70.83	JUN 21	70.23	SEP 12	70.10
WATER YEAR 2000 HIGHEST 69.81		MAY 23, 2000		LOWEST 71.60		NOV 17, 1999	



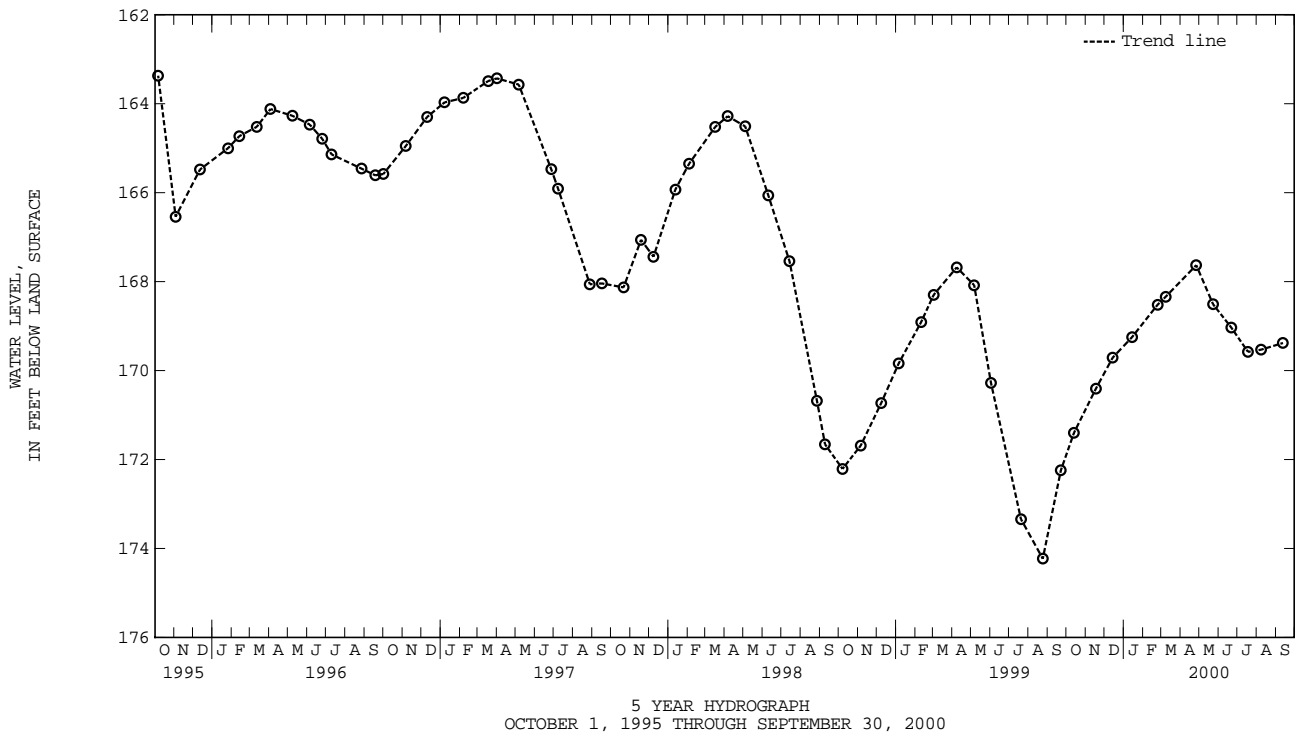
5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

ANNE ARUNDEL COUNTY--Continued

WELL NUMBER.--AA Fd 43. SITE ID.--384646076352401. PERMIT NUMBER.--AA-74-1004.
 LOCATION.--Lat 38°46'46", long. 76°35'24", Hydrologic Unit 02060004 at Tracys Landing Regional Park, 0.2 mi east of Tracys Landing.
 Owner: U.S. Geological Survey.
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 280 ft, casing diameter 4 in., to 231 ft; casing diameter 2 in. from 231 to 270 ft; screen diameter 2 in. from 270 to 280 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Altitude of land surface is 150 ft above National Geodetic Vertical Datum of 1929, from topographic map.
 Measuring point: Top of coupling, 0.94 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by regional ground-water withdrawal.
 PERIOD OF RECORD.--August 1979 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 143.90 ft below land surface, May 6, 1980; lowest measured, 174.23 ft below land surface, August 24, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1999	171.40	JAN 14, 2000	169.25	APR 26, 2000	167.63	JUL 18, 2000	169.58
NOV 17	170.41	FEB 24	168.52	MAY 23	168.51	AUG 08	169.53
DEC 14	169.71	MAR 08	168.34	JUN 21	169.03	SEP 12	169.38
WATER YEAR 2000 HIGHEST 167.63		APR 26, 2000		LOWEST 171.40		OCT 13, 1999	



BALTIMORE CITY

WELL NUMBER.--2S5E- 1. SITE ID.--391617076322001.

LOCATION.--Lat 39°16'17", long 76°32'20", Hydrologic Unit 02060003, near Holabird Ave. and Pumphrey St. at Holabird Industrial Park.

Owner: City of Baltimore.

AQUIFER.--Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 290 ft; casing diameter 14(?) in. to unknown depth.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 30 ft above sea level, from topographic map.

Measuring point: Top of casing extension, 2.35 ft above land surface.

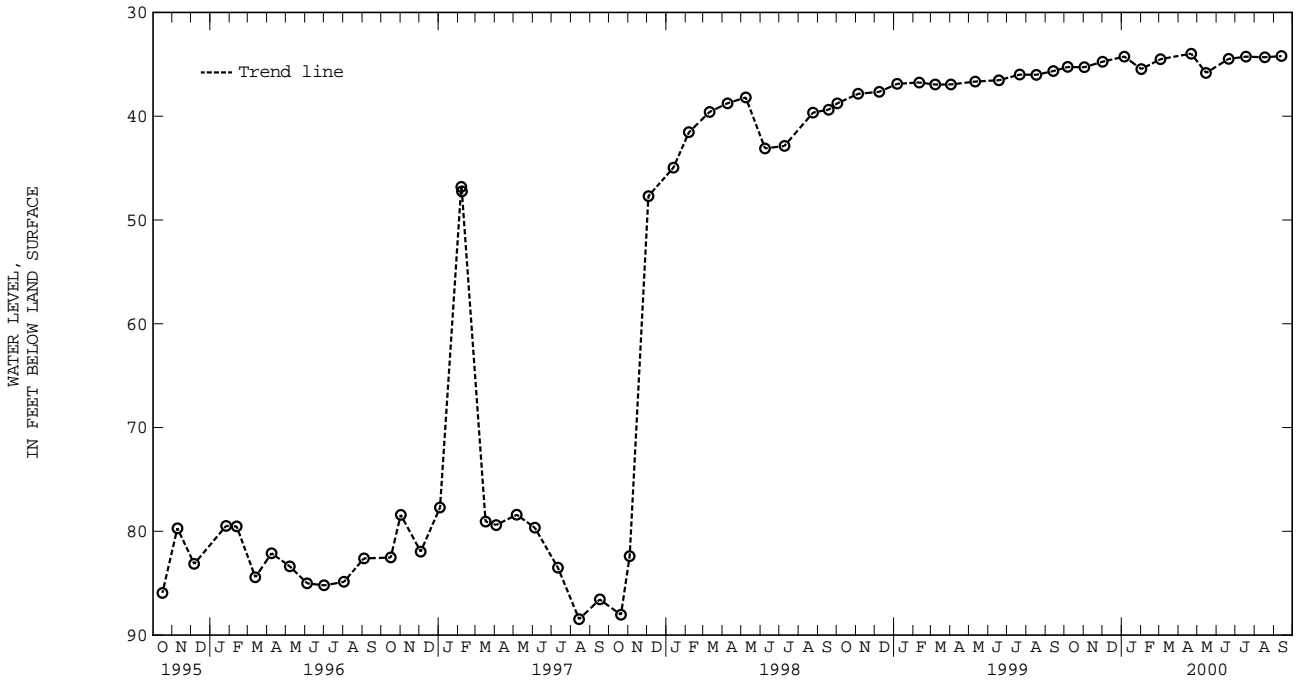
REMARKS.--Maryland Water-Level Network observation well. Water level reported 58 ft below land surface in 1934.

PERIOD OF RECORD.--April 1943 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 33.97 ft below land surface, April 21, 2000; lowest measured, 103.70 ft below land surface, Oct. 15, 1948.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 1999	35.26	JAN 05, 2000	34.25	APR 21, 2000	33.97	JUL 18, 2000	34.26
NOV 02	35.28	FEB 01	35.46	MAY 15	35.82	AUG 17	34.32
DEC 01	34.75	MAR 03	34.50	JUN 20	34.48	SEP 13	34.21
WATER YEAR 2000 HIGHEST		33.97	APR 21, 2000		LOWEST		35.82
							MAY 15, 2000



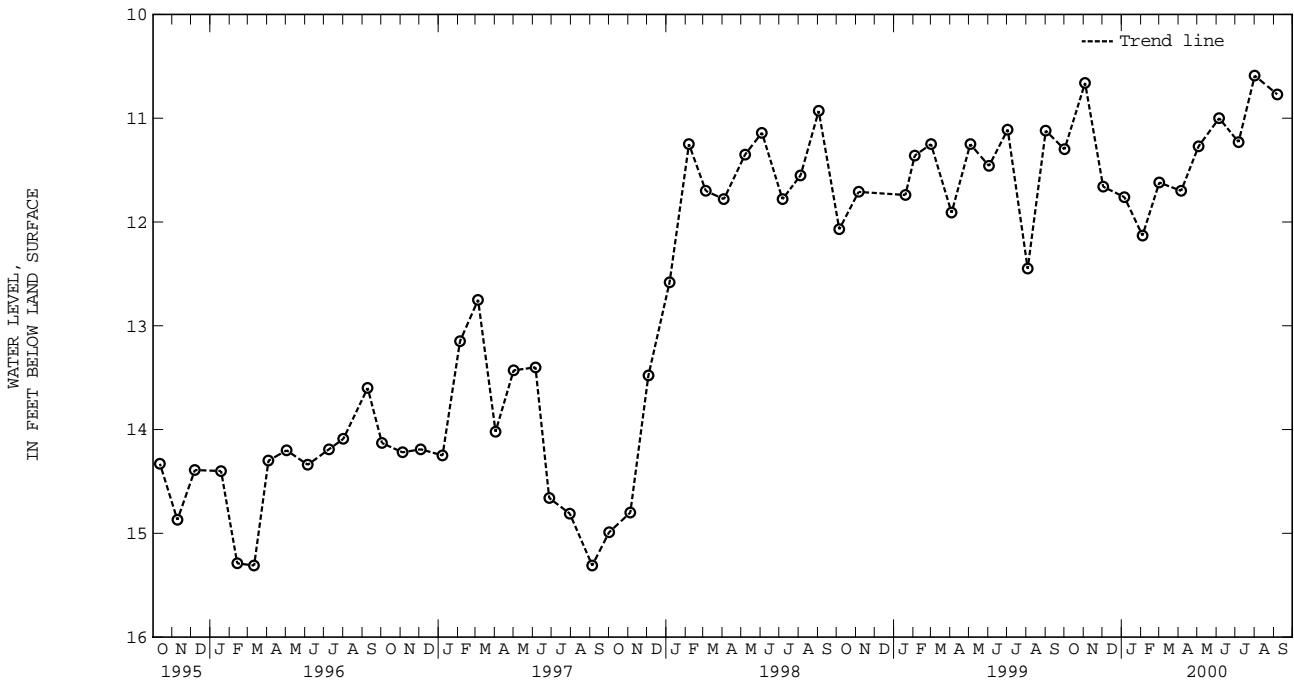
5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

BALTIMORE CITY--Continued

WELL NUMBER.--3S2E- 5. SITE ID.--391600076353301. PERMIT NUMBER.--BC-81-0087.
 LOCATION.--Lat 39°16'00", long 76°35'33", Hydrologic Unit 02060003, at Latrobe Park.
 Owner: U.S. Geological Survey.
 AQUIFER.--Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 136 ft; casing diameter 4 in., to 126 ft; screen diameter 3 in. from 126 to 136 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Altitude of land surface is 15 ft. above sea level, from topographic map.
 Measuring Point: Top of casing, 1.92 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well.
 PERIOD OF RECORD.--January 1983 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.59 ft below land surface, Aug. 1, 2000;
 lowest measured, 17.71 ft below land surface, Dec. 30, 1983.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01, 1999	11.30	JAN 05, 2000	11.76	APR 05, 2000	11.70	JUL 06, 2000	11.23
NOV 03	10.66	FEB 03	12.13	MAY 03	11.27	AUG 01	10.59
DEC 02	11.66	MAR 01	11.62	JUN 05	11.00	SEP 06	10.77
WATER YEAR 2000 HIGHEST		10.59	AUG 01, 2000		LOWEST		12.13
				FEB 03, 2000			



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

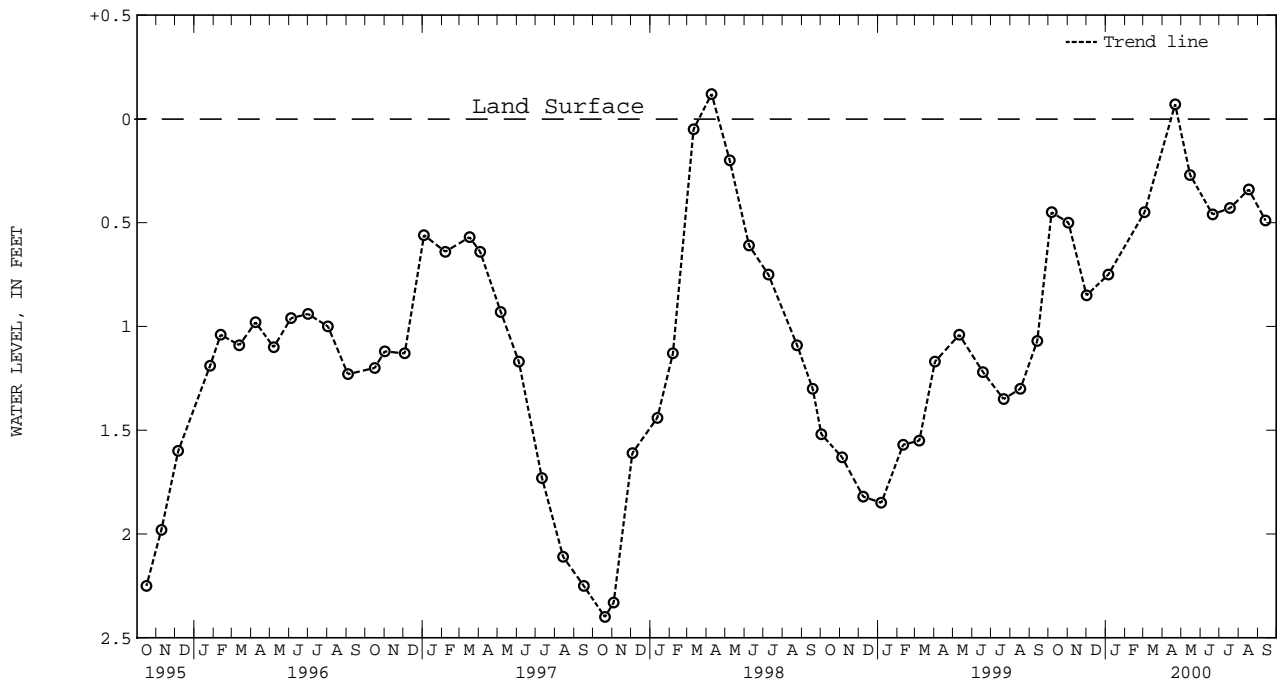
GROUND-WATER LEVELS IN MARYLAND--Continued

BALTIMORE CITY--Continued

WELL NUMBER.--3S5E- 46. SITE ID.--391556076315301. PERMIT NUMBER.--BC-81-0088.
 LOCATION.--Lat 39°15'56", long 76°31'53", Hydrologic Unit 02060003, at Holabird Industrial Park, near Colgate Creek.
 Owner: U.S. Geological Survey.
 AQUIFER.-- Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSC.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 73 ft; casing diameter 4 in., to 63 ft; screen diameter 3 in. from 63 to 73 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Altitude of land surface is 10 ft above sea level, from topographic map.
 Measuring point: Top of casing, 2.07 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well.
 PERIOD OF RECORD.--January 1983 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.22 ft above land surface, May 5, 1983;
 lowest measured, 3.07 ft below land surface, July 8, 1986.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
 (READINGS ABOVE LAND SURFACE INDICATED BY "+")

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 1999	.45	JAN 05, 2000	.75	MAY 15, 2000	.27	AUG 17, 2000	.34
NOV 02	.50	MAR 03	.45	JUN 20	.46	SEP 13	.49
DEC 01	.85	APR 21	+0.07	JUL 18	.43		
WATER YEAR 2000 HIGHEST		+0.07 APR 21, 2000		LOWEST		.85 DEC 01, 1999	



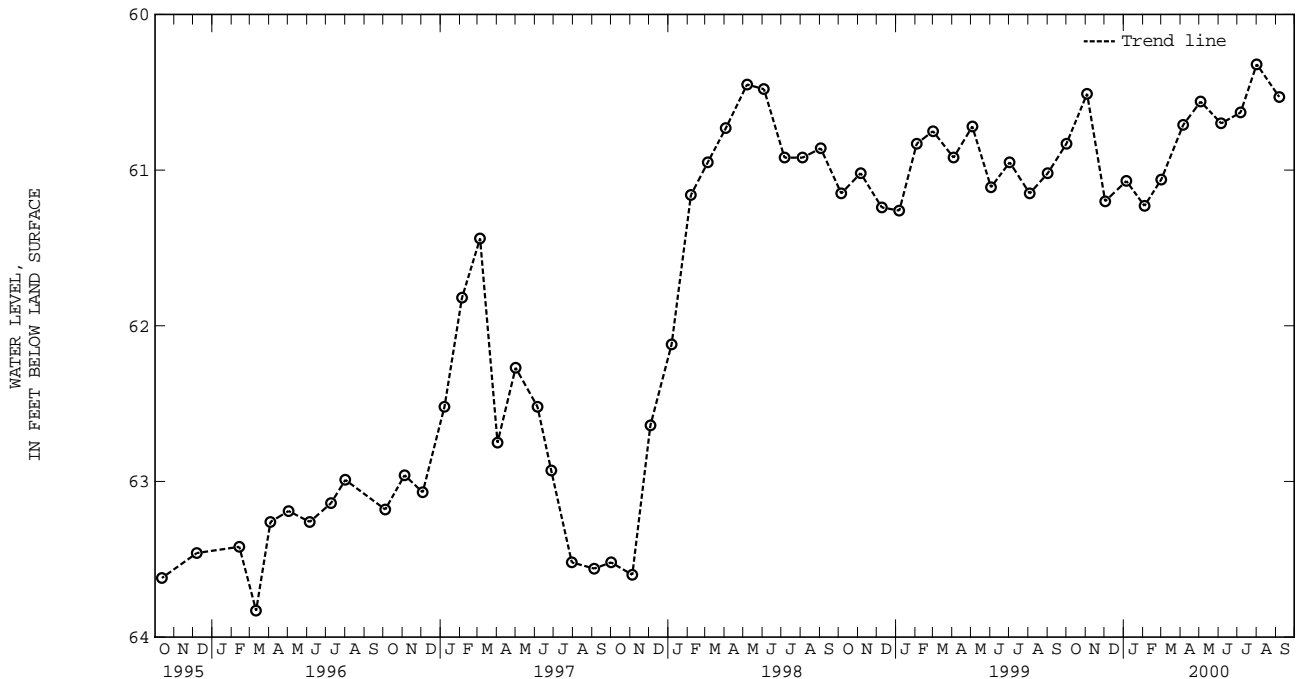
5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

BALTIMORE CITY--Continued

WELL NUMBER.--5S2E- 24. SITE ID.--391349076354501. PERMIT NUMBER.--BC-81-0089.
 LOCATION.--Lat 39°13'49", long 76°35'45", Hydrologic Unit 02060003, at Farrington Park.
 Owner: U.S. Geological Survey.
 AQUIFER.--Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 272 ft; casing diameter 4 in., to 262 ft; screen diameter 3 in. from 262 ft to 272 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Altitude of land surface is 75 ft above sea level, from topographic map.
 Measuring point: Top of casing, 0.35 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well.
 PERIOD OF RECORD.--January 1983 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 60.32 ft below land surface, Aug. 1, 2000;
 lowest measured, 66.36 ft below land surface, May 5, 1983.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01, 1999	60.83	JAN 05, 2000	61.07	APR 05, 2000	60.71	JUL 06, 2000	60.63
NOV 03	60.51	FEB 03	61.23	MAY 03	60.56	AUG 01	60.32
DEC 02	61.20	MAR 01	61.06	JUN 05	60.70	SEP 06	60.53
WATER YEAR 2000 HIGHEST		60.32	AUG 01, 2000		LOWEST		61.23
				FEB 03, 2000			



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

BALTIMORE COUNTY

WELL NUMBER.--BA Cd 26. SITE ID.--393129076384201. PERMIT NUMBER.--BA-02-8527.

LOCATION.--Lat 39°31'29", long 76°38'42" ,Hydrologic Unit, 02060003, 1.4 mi south of Sparks, near York Road.

Owner: Diecraft Division, Leica Inc.

AQUIFER.--Baltimore Gneiss of Precambrian age. Aquifer code: 400BLMR.

WELL CHARACTERISTICS.--Drilled, unused, water-table well, depth 250 ft; casing diameter 6 in., to 19 ft; open hole.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Altitude of land surface is 480 ft above sea level, from topographic map.

Measuring point: Top of casing, 0.30 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

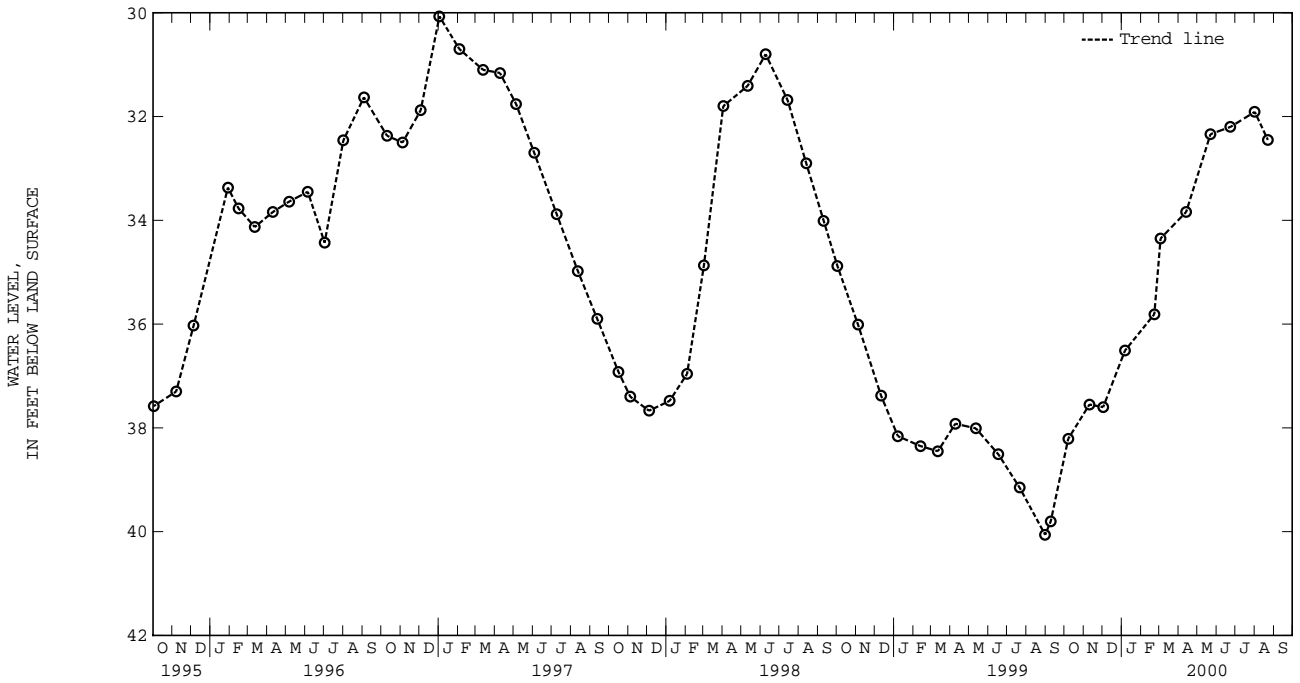
PERIOD OF RECORD.--January 1959 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.42 ft below land surface, Sept. 9, 1975;

lowest measured, 80.20 ft below land surface, Dec. 23, 1969.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 07, 1999	38.21	JAN 06, 2000	36.51	APR 13, 2000	33.84	AUG 01, 2000	31.91
NOV 10	37.55	FEB 22	35.81	MAY 22	32.34	22	32.45
DEC 02	37.60	MAR 03	34.35	JUN 23	32.20		
WATER YEAR 2000 HIGHEST		31.91	AUG 01, 2000 LOWEST		38.21	OCT 07, 1999	



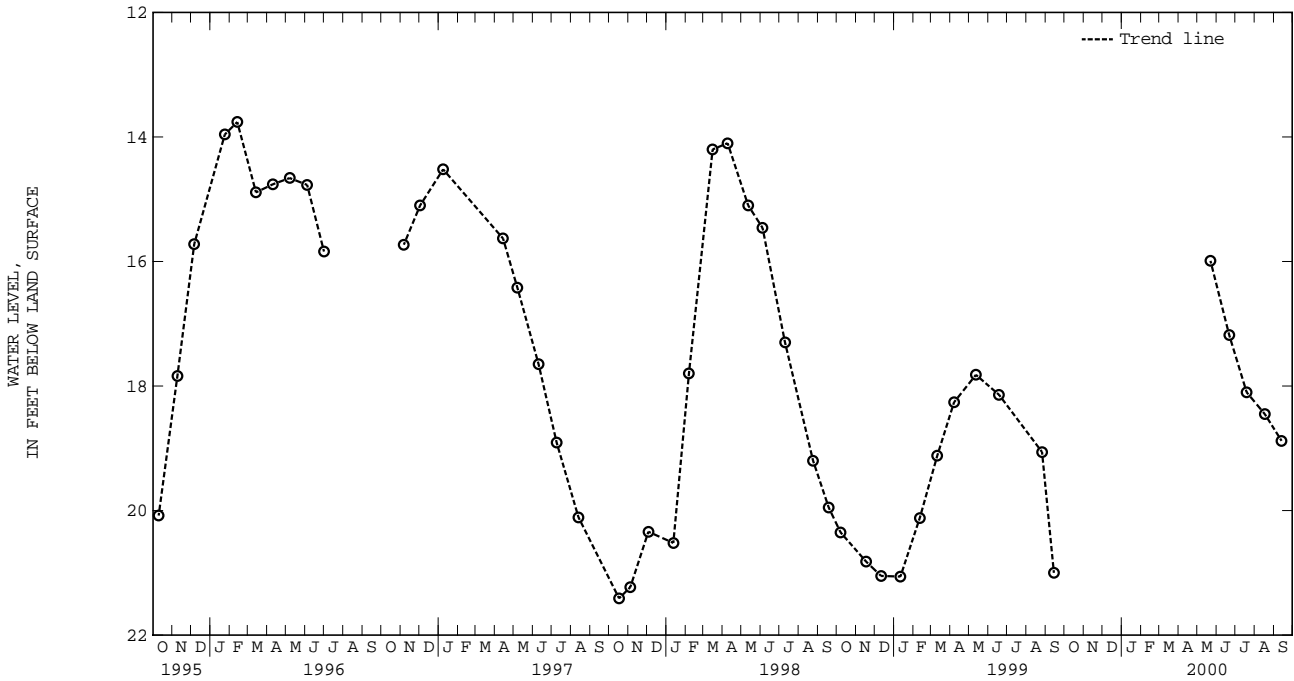
5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

BALTIMORE COUNTY--Continued

WELL NUMBER.--BA Ce 21. SITE ID.--393102076341801. PERMIT NUMBER.--BA-02-1266.
 LOCATION.--Lat 39°31'02", long 76°34'18", Hydrologic Unit 02060003, on Paper Mill Road, 0.6 mi west of Jacksonville.
 Owner: Baltimore County.
 AQUIFER.--Loch Raven Formation of Cambrian Age. Aquifer code: 370LCRV.
 WELL CHARACTERISTICS.--Drilled, unused, water-table well, depth 350 ft; casing diameter 10 in., to 12.4 ft;
 casing diameter 6 in., to 33.1 ft; open hole.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Altitude of land surface is 536 ft above sea level, from topographic map.
 Measuring point: Top of casing, 2.00 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well.
 PERIOD OF RECORD.--November and December 1955, November 1956 through September 1975, July 1977 through July 1996,
 November 1996 to September 1999, and May 2000 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.60 ft below land surface, June 23, 1972;
 lowest measured, 21.54 ft below land surface, Feb. 10, 1966.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 22, 2000	15.99	JUL 19, 2000	18.10	SEP 13, 2000	18.88
JUN 21	17.18	AUG 17	18.45		
WATER YEAR 2000 HIGHEST 15.99 MAY 22, 2000		LOWEST 18.88		SEP 13, 2000	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

BALTIMORE COUNTY--Continued

WELL NUMBER.-- BA Dc 444. SITE ID.--392931076410301. PERMIT NUMBER.--BA-81-4198.

LOCATION.--Lat 39°29'31", long 76°41'03", Hydrologic Unit 02060003, at Oregon Ridge Park.

Owner: Baltimore County Parks and Recreation.

AQUIFER.--Cockeysville Marble of Cambrian age. Aquifer code: 370CCKV.

WELL CHARACTERISTICS.--Drilled, unused, water-table well, depth 300 ft; casing diameter 6 in., to 88 ft; open hole.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital

water-level recorder--15-minute recorder interval from Nov. 4, 1998 to current year.

DATUM.--Altitude of land surface is 390 ft above sea level, from topographic map.

Measuring Point: Top of shelter platform, 1.62 ft above land surface.

REMARKS.--Maryland Water-Level Network and Collection of Basic Records (CBR) national network observation well (see figure 3).

Missing data due to recorder malfunction.

PERIOD OF RECORD.--*September 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 33.46 ft below land surface, April 9, 1997;

lowest measured, 45.07 ft below land surface, Jan. 17, 1989.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000														
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH			
1	40.96	40.96	40.45	40.45	40.55	40.55	40.29	40.29	40.32	40.29	40.27	40.18		
2	40.96	40.96	40.45	40.26	40.59	40.55	40.29	40.22	40.33	40.32	40.19	40.19		
3	40.96	40.96	40.39	40.30	40.59	40.59	40.23	40.22	40.33	40.29	40.19	40.19		
4	40.96	40.83	40.41	40.39	40.62	40.59	40.22	40.22	40.34	40.31	40.19	40.17		
5	40.83	40.83	40.41	40.41	40.62	40.61	40.30	40.22	40.38	40.34	40.19	40.16		
6	40.83	40.79	40.41	40.41	40.61	40.58	40.30	40.22	40.38	40.38	40.19	40.14		
7	40.80	40.79	40.41	40.41	---	---	40.23	40.22	40.38	40.37	40.14	40.13		
8	40.80	40.79	40.41	40.41	---	---	40.22	40.22	40.47	40.38	40.13	40.13		
9	40.79	40.79	40.41	40.41	---	---	40.22	40.22	40.47	40.46	40.13	40.01		
10	40.79	40.70	40.41	40.38	---	---	40.22	40.13	40.46	40.43	40.07	40.01		
11	40.70	40.70	40.45	40.38	---	---	40.20	40.17	40.52	40.43	40.07	40.03		
12	40.70	40.70	40.45	40.45	---	---	40.21	40.20	40.53	40.52	40.04	40.03		
13	40.70	40.57	40.45	40.45	---	---	40.23	40.14	40.53	40.52	40.04	40.03		
14	40.60	40.57	40.45	40.37	---	---	40.23	40.23	40.52	40.42	40.03	40.03		
15	40.60	40.60	40.42	40.41	---	---	40.23	40.21	40.52	40.50	40.03	40.03		
16	40.60	40.56	40.42	40.41	---	---	40.21	40.15	40.52	40.52	40.03	39.90		
17	40.56	40.56	40.46	40.42	---	---	40.21	40.21	40.56	40.52	40.00	39.90		
18	40.56	40.56	40.46	40.46	---	---	40.21	40.20	40.55	40.42	40.00	40.00		
19	40.56	40.56	40.46	40.46	---	---	40.20	40.20	40.42	40.42	40.00	39.91		
20	40.56	40.56	40.46	40.46	---	---	40.20	40.15	40.42	40.42	39.91	39.91		
21	40.56	40.46	40.52	40.46	---	---	40.23	40.19	40.42	40.42	39.91	39.84		
22	40.46	40.45	40.54	40.52	---	---	40.23	40.23	40.42	40.42	39.84	39.84		
23	40.46	40.45	40.54	40.53	---	---	40.23	40.22	40.42	40.33	39.84	39.68		
24	40.46	40.45	40.54	40.53	---	---	40.23	40.21	40.33	40.30	39.68	39.65		
25	40.46	40.45	40.54	40.53	40.37	40.33	40.21	40.15	40.31	40.30	39.65	39.59		
26	40.45	40.45	40.54	40.50	40.33	40.27	40.23	40.19	40.31	40.31	39.59	39.59		
27	40.46	40.45	40.52	40.50	40.30	40.29	40.32	40.23	40.31	40.29	39.59	39.43		
28	40.46	40.45	40.54	40.52	40.30	40.26	40.33	40.32	40.29	40.27	39.44	39.43		
29	40.45	40.45	40.54	40.54	40.30	40.26	40.33	40.32	40.28	40.27	39.44	39.43		
30	40.45	40.45	40.55	40.54	40.30	40.27	40.32	40.24	---	---	39.43	39.43		
31	40.45	40.45	---	---	40.29	40.28	40.30	40.24	---	---	39.43	39.32		
MONTH	40.96	40.45	40.55	40.26	40.62	40.26	40.33	40.13	40.56	40.27	40.27	39.32		

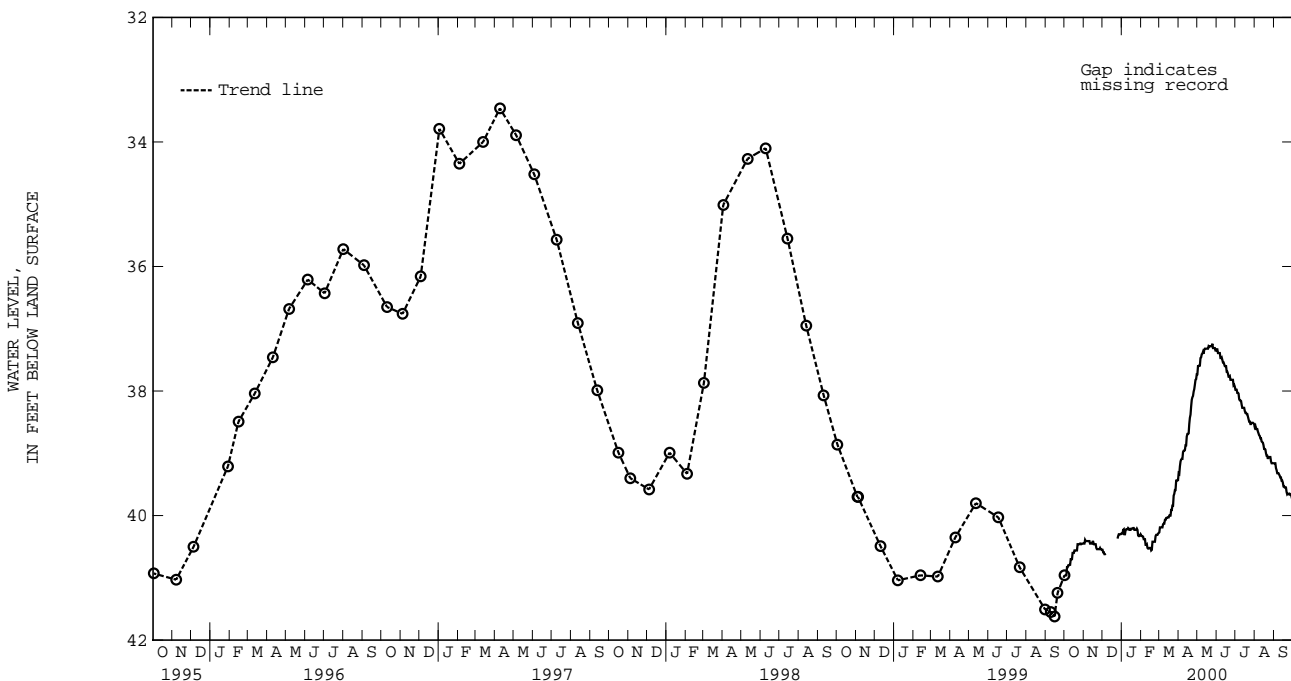
BALTIMORE COUNTY--Continued

BA Dc 444--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	39.32	39.32	37.73	37.59	37.33	37.30	37.98	37.93	38.58	38.53	39.16	39.16
2	39.33	39.21	37.60	37.59	37.33	37.30	37.98	37.98	38.56	38.55	39.16	39.14
3	39.21	39.13	37.60	37.59	37.39	37.31	37.98	37.98	38.61	38.56	39.16	39.16
4	39.13	39.09	37.59	37.59	37.39	37.39	38.03	37.98	38.61	38.61	39.24	39.16
5	39.10	39.09	37.59	37.46	37.39	37.39	38.03	38.03	38.61	38.61	39.27	39.24
6	39.09	39.09	37.47	37.46	37.39	37.39	38.04	38.03	38.65	38.61	39.32	39.27
7	39.09	38.98	37.46	37.41	37.47	37.39	38.13	38.04	38.68	38.65	39.32	39.31
8	38.98	38.94	37.41	37.40	37.47	37.45	38.15	38.13	38.71	38.68	39.32	39.31
9	38.96	38.94	37.40	37.35	37.46	37.45	38.15	38.15	38.72	38.70	39.34	39.32
10	38.96	38.95	37.37	37.31	37.50	37.46	38.16	38.15	38.76	38.72	39.36	39.34
11	38.95	38.86	37.40	37.34	37.54	37.50	38.22	38.16	38.76	38.76	39.39	39.36
12	38.87	38.83	37.34	37.31	37.54	37.54	38.27	38.22	38.81	38.76	39.39	39.39
13	38.87	38.73	37.32	37.22	37.57	37.54	38.27	38.27	38.82	38.81	39.44	39.39
14	38.73	38.69	37.32	37.28	37.60	37.57	38.27	38.26	38.83	38.82	39.44	39.44
15	38.69	38.69	37.32	37.32	37.60	37.60	38.27	38.26	38.87	38.83	39.47	39.44
16	38.69	38.68	37.32	37.32	37.60	37.60	38.32	38.27	38.93	38.86	39.53	39.47
17	38.68	38.53	37.32	37.32	37.69	37.60	38.35	38.32	38.93	38.93	39.53	39.53
18	38.53	38.43	37.32	37.25	37.69	37.68	38.35	38.35	38.94	38.93	39.55	39.53
19	38.43	38.38	37.28	37.25	37.72	37.68	38.37	38.35	39.00	38.94	39.55	39.55
20	38.38	38.25	37.29	37.28	37.77	37.72	38.37	38.37	39.04	39.00	39.55	39.55
21	38.25	38.14	37.28	37.28	37.77	37.72	38.41	38.37	39.04	39.04	39.62	39.55
22	38.14	38.10	37.28	37.28	37.76	37.72	38.45	38.41	39.09	39.04	39.66	39.62
23	38.10	38.07	37.28	37.28	37.82	37.76	38.49	38.45	39.06	39.06	39.65	39.65
24	38.08	38.01	37.28	37.20	37.82	37.82	38.49	38.48	39.06	39.06	39.65	39.65
25	38.01	37.97	37.24	37.23	37.82	37.82	38.53	38.49	39.06	39.06	39.66	39.65
26	37.97	37.90	37.31	37.24	37.82	37.82	38.53	38.48	39.06	39.06	39.65	39.65
27	37.90	37.82	37.31	37.31	37.82	37.82	38.51	38.48	39.13	39.06	39.66	39.65
28	37.82	37.81	37.31	37.30	37.91	37.82	38.51	38.51	39.16	39.13	39.66	39.65
29	37.81	37.73	37.31	37.30	37.90	37.89	38.51	38.51	39.16	39.16	39.70	39.66
30	37.73	37.73	37.35	37.30	37.93	37.89	38.52	38.51	39.16	39.16	39.69	39.69
31	---	---	37.35	37.31	---	---	38.53	38.52	39.16	39.16	---	---
MONTH	39.33	37.73	37.73	37.20	37.93	37.30	38.53	37.93	39.16	38.53	39.70	39.14
YEAR	40.96	37.20										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

BALTIMORE COUNTY--Continued

WELL NUMBER.--BA Ea 18. SITE ID.--392045076512501. PERMIT NUMBER.--BA-01-8151.

LOCATION.--Lat 39°20'45", long 76°51'25", Hydrologic Unit 02060003, at Granite.

Owner: Maryland National Guard (U.S. Army).

AQUIFER.--Woodstock Granite of Silurian age. Aquifer code: 350WDCK.

WELL CHARACTERISTICS.--Drilled, unused, water-table well, depth 250 ft; casing diameter 10 in., to 50.7 ft; casing diameter 6 in. with depth to 71.3 ft; open hole.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with water-level digital recorder--60 minute recorder interval since Sept. 10, 1999 to current Year.

DATUM.--Altitude of land surface is 491 ft above sea level, from topographic map.

Measuring point: Top of shelter platform, 1.6 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. U.S. Geological Survey water-level telemeter at well.

PERIOD OF RECORD.-- November 1956 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.94 ft below land surface, June 24, 1972; lowest measured, 27.57 ft below land surface, Sept. 13, 1966.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH					
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	24.44	24.41	23.96	23.94	23.97	23.95	23.42	23.40	23.21	23.19	22.56	22.50				
2	24.42	24.40	---	---	23.97	23.95	23.40	23.37	23.24	23.21	22.51	22.49				
3	24.42	24.39	---	---	23.96	23.95	23.39	23.37	23.24	23.17	22.51	22.44				
4	24.39	24.37	---	---	23.98	23.95	23.37	23.33	23.23	23.18	22.48	22.44				
5	24.37	24.33	---	---	23.98	23.95	23.42	23.37	23.24	23.22	22.47	22.43				
6	24.33	24.30	23.98	23.95	23.97	23.93	23.42	23.36	23.27	23.24	22.47	22.44				
7	24.32	24.29	23.99	23.97	23.99	23.96	23.37	23.33	23.26	23.22	22.45	22.39				
8	24.30	24.27	23.99	23.97	23.99	23.97	23.37	23.33	23.29	23.26	22.40	22.38				
9	24.28	24.26	23.99	23.96	23.99	23.95	23.34	23.30	23.26	23.21	22.38	22.35				
10	24.27	24.21	23.98	23.96	23.95	23.90	23.32	23.25	23.22	23.20	22.40	22.37				
11	24.21	24.18	24.03	23.98	23.95	23.93	23.32	23.27	23.22	23.17	22.39	22.30				
12	24.18	24.14	24.03	24.00	23.94	23.91	23.32	23.28	23.22	23.18	22.35	22.29				
13	24.14	24.08	24.00	24.00	23.92	23.89	23.31	23.23	23.18	23.11	22.36	22.33				
14	24.11	24.08	24.00	23.96	23.90	23.81	23.32	23.31	23.11	23.08	22.33	22.29				
15	24.11	24.09	24.00	24.00	23.81	23.70	23.31	23.26	23.13	23.10	22.30	22.27				
16	24.09	24.08	24.03	24.00	23.70	23.67	23.26	23.21	23.10	23.04	22.28	22.22				
17	24.08	24.03	24.06	24.03	23.67	23.63	23.27	23.26	23.10	23.07	22.33	22.20				
18	24.07	24.03	---	---	23.63	23.61	23.26	23.21	23.08	22.97	22.33	22.28				
19	24.08	24.04	---	---	23.61	23.59	23.22	23.20	22.99	22.93	22.28	22.22				
20	24.04	24.01	---	---	23.59	23.53	23.22	23.17	22.93	22.85	22.23	22.20				
21	24.02	23.99	---	---	23.55	23.53	23.25	23.22	22.86	22.82	22.22	22.07				
22	23.99	23.93	---	---	23.54	23.51	23.25	23.23	---	---	22.07	21.69				
23	23.96	23.93	24.12	24.09	23.53	23.47	23.24	23.21	---	---	21.69	21.57				
24	23.98	23.95	24.12	24.10	---	---	23.22	23.19	---	---	21.57	21.50				
25	23.98	23.95	24.12	24.10	---	---	23.19	23.14	22.70	22.69	21.50	21.41				
26	23.97	23.93	24.12	24.06	---	---	23.21	23.17	22.70	22.67	21.41	21.38				
27	23.97	23.95	24.08	24.02	---	---	23.25	23.21	22.67	22.62	21.38	21.26				
28	23.98	23.96	24.03	24.01	---	---	23.26	23.25	22.62	22.60	21.26	21.21				
29	23.96	23.95	24.01	23.98	23.41	23.39	23.26	23.25	22.60	22.56	21.25	21.23				
30	23.97	23.95	23.99	23.97	23.41	23.39	23.25	23.17	---	---	21.24	21.18				
31	23.96	23.94	---	---	23.42	23.39	23.21	23.17	---	---	21.20	21.17				
MONTH	24.44	23.93	24.12	23.94	23.99	23.39	23.42	23.14	23.29	22.56	22.56	21.17				

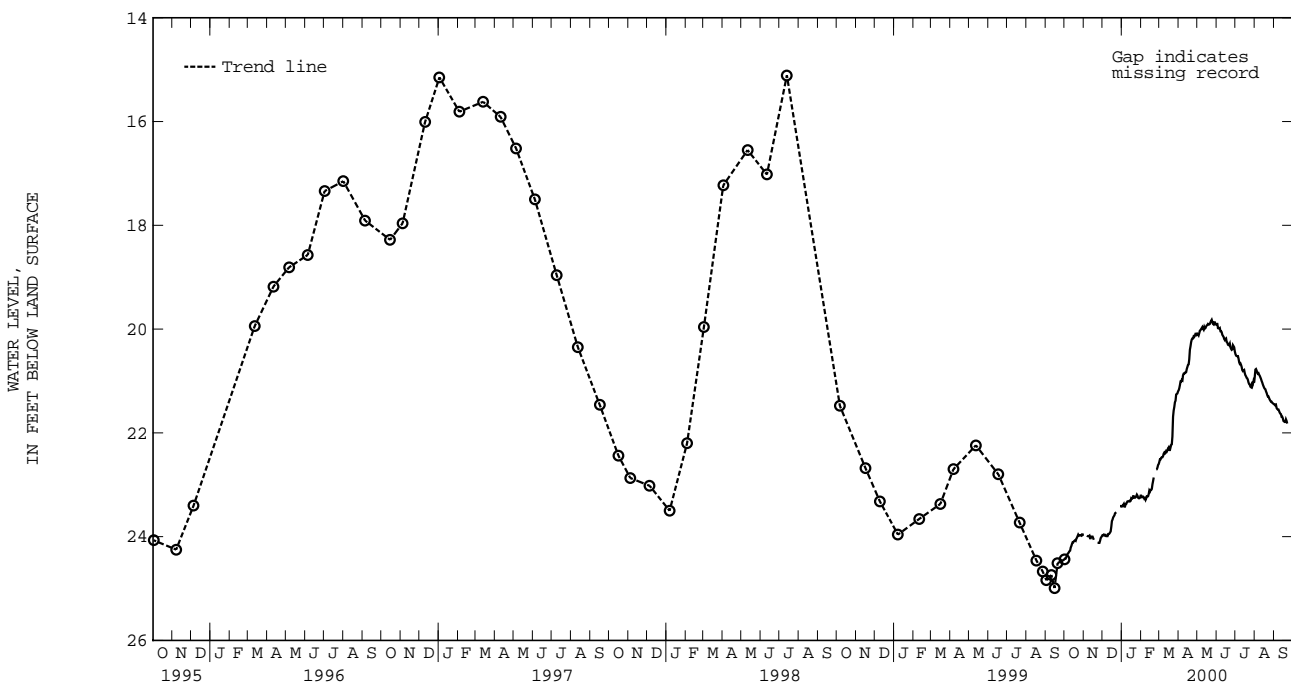
BALTIMORE COUNTY--Continued

BA Ea 18--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.18	21.13	20.09	19.99	19.90	19.85	20.48	20.43	20.92	20.78	21.45	21.44
2	21.14	21.07	20.10	19.99	19.90	19.86	20.51	20.47	20.78	20.73	21.45	21.45
3	21.08	20.99	20.12	20.06	19.98	19.89	20.52	20.50	20.77	20.74	21.47	21.41
4	21.01	20.96	20.08	20.02	19.98	19.95	20.52	20.47	20.80	20.77	21.46	21.40
5	21.01	20.97	20.03	19.99	19.99	19.95	20.52	20.48	20.84	20.80	21.52	21.46
6	20.98	20.90	20.02	19.98	19.98	19.93	20.57	20.52	20.86	20.83	21.54	21.52
7	20.99	20.89	20.00	19.96	20.04	19.98	20.64	20.57	20.85	20.83	21.55	21.52
8	20.89	20.86	19.98	19.95	20.04	20.02	20.67	20.64	20.88	20.85	21.55	21.53
9	20.86	20.84	19.96	19.94	20.06	20.03	20.66	20.64	20.90	20.87	21.58	21.55
10	20.86	20.84	19.99	19.91	20.11	20.06	20.69	20.64	20.93	20.88	21.61	21.58
11	20.84	20.76	20.01	19.96	20.13	20.09	20.73	20.69	20.96	20.93	21.63	21.61
12	20.84	20.75	19.96	19.91	20.15	20.12	20.79	20.73	21.00	20.96	21.64	21.63
13	20.83	20.77	19.99	19.91	20.19	20.15	20.81	20.78	21.03	21.00	21.69	21.64
14	20.77	20.73	19.98	19.92	20.21	20.16	20.80	20.78	21.07	21.03	21.69	21.66
15	20.73	20.67	19.95	19.89	20.19	20.15	20.79	20.77	21.10	21.07	21.72	21.65
16	20.69	20.65	19.93	19.88	20.18	20.15	20.85	20.79	21.13	21.07	21.77	21.72
17	20.68	20.58	19.92	19.88	20.25	20.18	20.89	20.85	21.15	21.13	21.78	21.77
18	20.58	20.40	19.90	19.85	20.26	20.23	20.91	20.89	21.16	21.14	21.79	21.78
19	20.40	20.32	19.91	19.86	20.30	20.26	20.94	20.91	21.20	21.16	21.79	21.74
20	20.33	20.24	19.91	19.89	20.31	20.30	20.95	20.91	21.23	21.20	21.74	21.68
21	20.25	20.18	19.90	19.87	20.31	20.25	20.98	20.95	21.27	21.23	21.77	21.67
22	20.20	20.18	19.87	19.84	20.28	20.25	21.03	20.98	21.30	21.27	21.82	21.77
23	20.18	20.17	19.84	19.79	20.35	20.28	21.06	21.03	21.30	21.29	---	---
24	20.18	20.14	19.82	19.78	20.38	20.35	21.07	21.06	21.33	21.29	---	---
25	20.14	20.13	19.86	19.78	20.40	20.37	21.11	21.07	21.36	21.33	---	---
26	20.15	20.13	19.90	19.86	20.39	20.28	21.12	21.06	21.38	21.35	---	---
27	20.13	20.09	19.91	19.86	20.31	20.27	21.07	21.05	21.40	21.36	---	---
28	20.09	20.07	19.87	19.83	20.33	20.30	21.10	21.06	21.40	21.37	---	---
29	20.09	20.06	19.87	19.82	20.35	20.31	21.06	20.96	21.42	21.40	21.56	21.53
30	20.11	20.06	19.91	19.87	20.43	20.35	21.00	20.96	21.43	21.41	21.56	21.54
31	---	---	19.91	19.86	---	---	21.03	20.92	21.44	21.42	---	---
MONTH	21.18	20.06	20.12	19.78	20.43	19.85	21.12	20.43	21.44	20.73	21.82	21.40
YEAR	24.44	19.78										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

BALTIMORE COUNTY--Continued

WELL NUMBER.--BA Ec 43. SITE ID.--392305076432001.

LOCATION.--Lat 39°23'05", long 76°43'20", Hydrologic Unit 02060003, nr Pikesville, at Druid Ridge Cemetery.

Owner: Druid Ridge Cemetery.

AQUIFER.--Baltimore Gneiss of Precambrian age. Aquifer code: 400BLMR.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

WELL CHARACTERISTICS.--Drilled, unused, water-table well, depth 111 ft; casing diameter 6 in., to 40 ft; open hole.

DATUM.--Altitude of land surface is 500 ft above sea level, from topographic map.

Measuring Point: Top of casing, 1.00 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

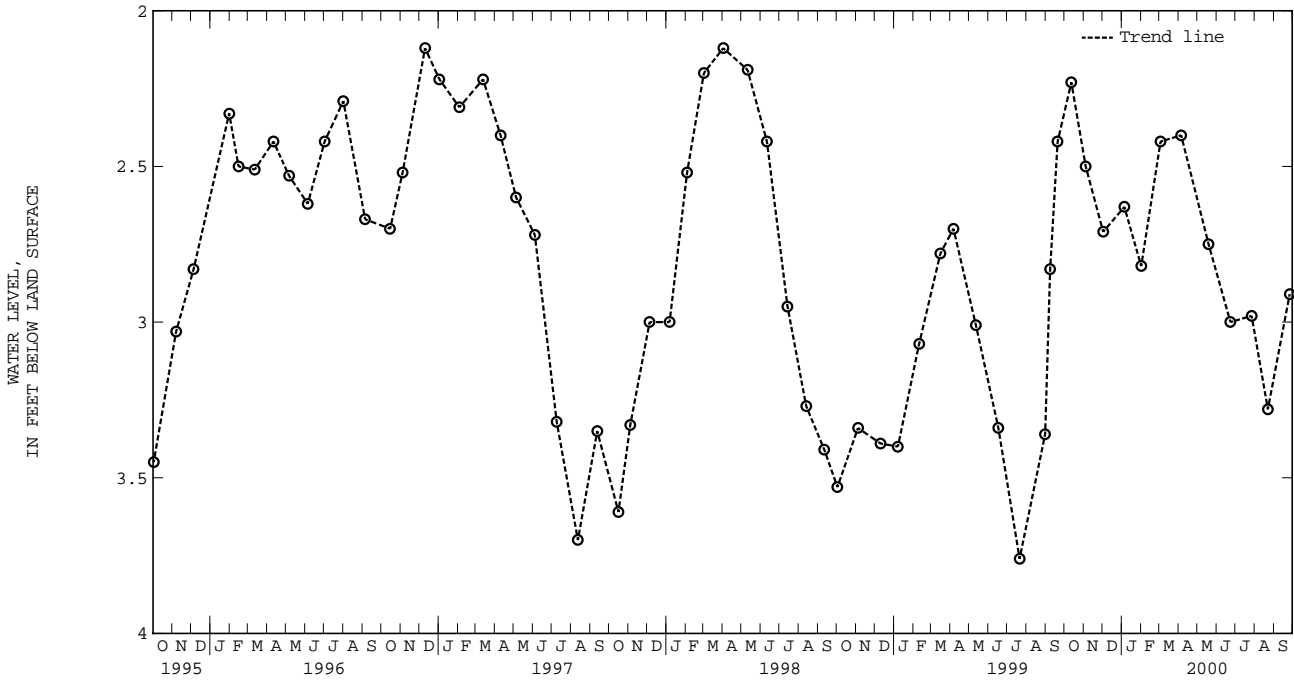
PERIOD OF RECORD.--March 1956 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.27 ft below land surface, June 24, 1972;

lowest measured, 4.69 ft below land surface, Nov. 11, 1964.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 12, 1999	2.23	JAN 05, 2000	2.63	APR 05, 2000	2.40	JUL 27, 2000	2.98
NOV 04	2.50	FEB 01	2.82	MAY 19	2.75	AUG 22	3.28
DEC 02	2.71	MAR 03	2.42	JUN 23	3.00	SEP 26	2.91
WATER YEAR 2000 HIGHEST		2.23	OCT 12, 1999	LOWEST		3.28	AUG 22, 2000



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

BALTIMORE COUNTY--Continued

WELL NUMBER.--BA Fe 19. SITE ID.--391607076312901.

LOCATION.--Lat 39°16'07", long 76°31'29", Hydrologic Unit 02060003, 0.2 mi east of Willow Spring Road, at Seagrams warehouse facility, Dundalk.

Owner: Montebello Brands.

AQUIFER.--Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, depth 402 ft; casing diameter 8 in., to unknown depth; screen length 35 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Altitude of land surface is 30 ft above sea level, from topographic map.

Measuring point: Top of casing, 0.5 ft above land surface.

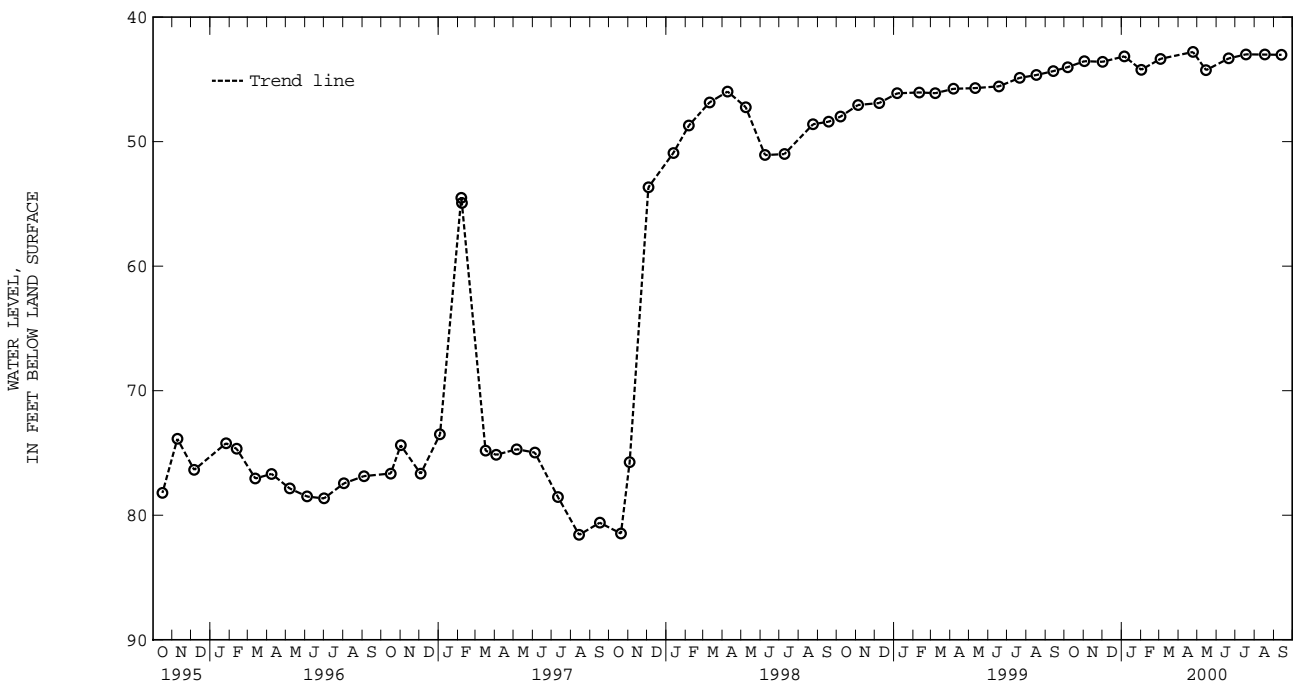
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--January 1952 to March 1954, January 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 44.34 ft below land surface, Sept. 13, 1999; lowest measured, 95.88 ft below land surface, Oct. 6, 1952.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 1999	44.02	JAN 05, 2000	43.15	APR 24, 2000	42.80	JUL 18, 2000	42.99
NOV 02	43.54	FEB 01	44.23	MAY 15	44.26	AUG 17	43.01
DEC 01	43.59	MAR 03	43.35	JUN 20	43.32	SEP 13	43.03
WATER YEAR 2000 HIGHEST 42.80		APR 24, 2000		LOWEST 44.26		MAY 15, 2000	



GROUND-WATER LEVELS IN MARYLAND--Continued

BALTIMORE COUNTY--Continued

WELL NUMBER.--BA Gf 11. SITE ID.--391356076293501.

LOCATION.--Lat 39°13'56", long 76°29'35", Hydrologic Unit 02060003, near Tin Mill Rd., Sparrows Point.

Owner: Bethlehem Steel Co.

AQUIFER.-- Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, depth 645 ft; casing diameter 14 in., to 422.7 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Altitude of land surface is 13.6 ft above sea level.

Measuring point: Top of casing 2.58 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

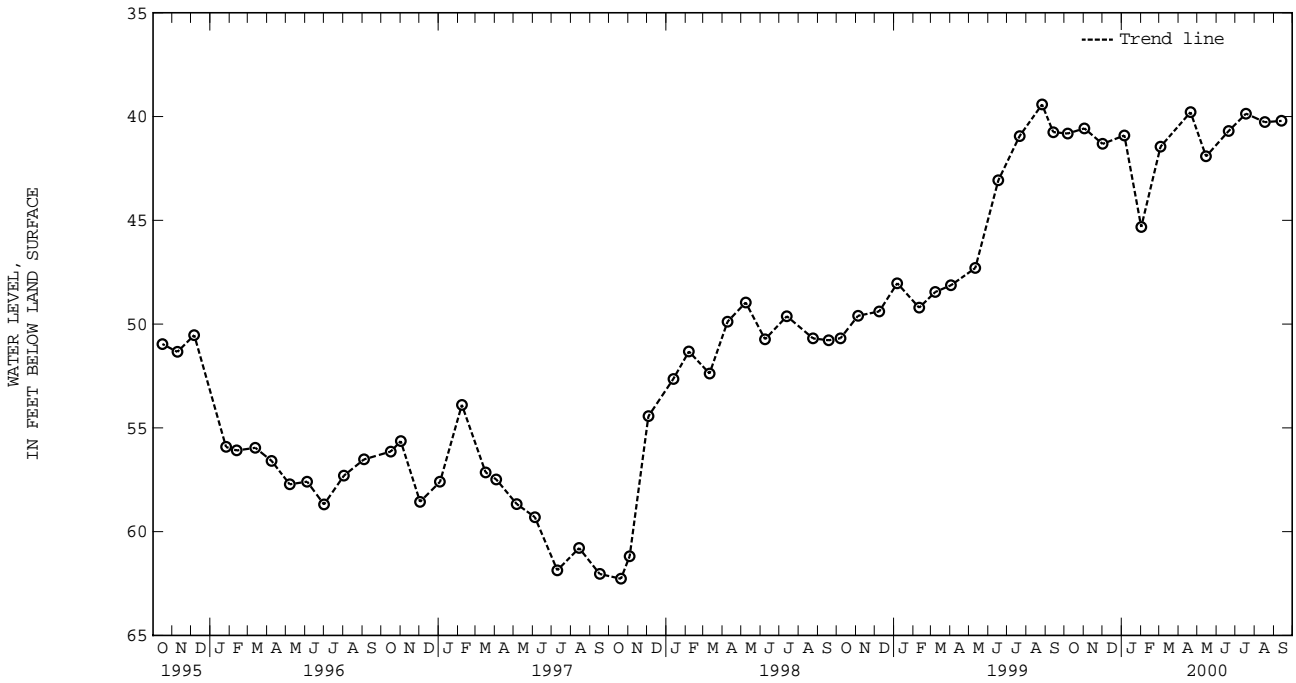
PERIOD OF RECORD.--September 1981, March 1982, September 1982, January 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 31.25 ft below land surface, June 3, 1983;

lowest measured, 62.27 ft below land surface, October 20, 1997.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 1999	40.82	JAN 05, 2000	40.91	APR 20, 2000	39.79	JUL 18, 2000	39.86
NOV 02	40.57	FEB 01	45.32	MAY 15	41.92	AUG 17	40.27
DEC 01	41.32	MAR 03	41.45	JUN 20	40.70	SEP 13	40.21
WATER YEAR 2000 HIGHEST 39.79		APR 20, 2000		LOWEST 45.32		FEB 01, 2000	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CALVERT COUNTY

WELL NUMBER.--CA Bb 27. SITE ID.--3843330766394701. PERMIT NUMBER.--CA-73-3303.
 LOCATION.--Lat 38°43'33", long 76°39'47", Hydrologic Unit 02060006, at Dunkirk Regional Park, Dunkirk.
 Owner: U.S. Geological Survey

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 320 ft; casing diameter 4 in., to 250 ft;
 casing diameter 2 in. from 250 to 310 ft; screen diameter 2 in. from 310 to 320 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 137.87 ft above sea level.

Measuring point: Top of casing, 1.80 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by regional ground-water withdrawal.

PERIOD OF RECORD.--August 1979 to current year.

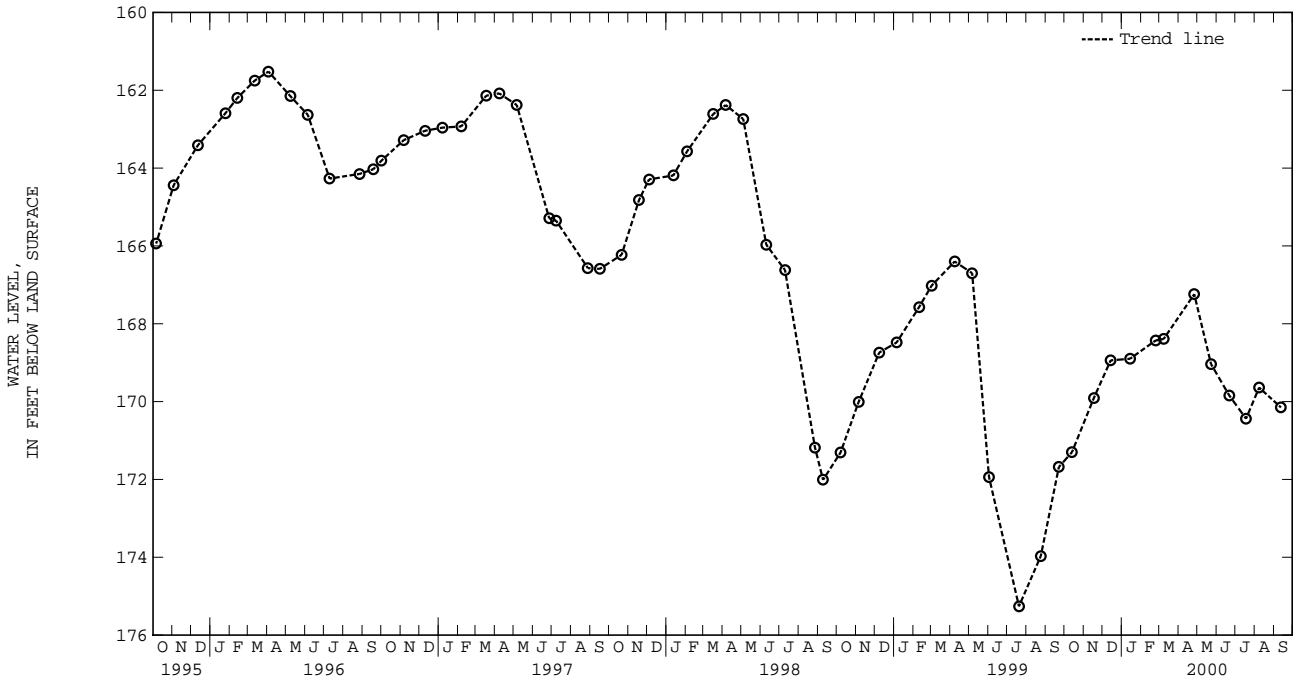
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 133.82 ft below land surface, May 6, 1980;

lowest measured, 175.26 ft below land surface, July 20, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1999	171.30	JAN 14, 2000	168.90	APR 26, 2000	167.24	JUL 18, 2000	170.44
NOV 17	169.91	FEB 24	168.43	MAY 23	169.04	AUG 08	169.64
DEC 14	168.94	MAR 08	168.39	JUN 21	169.84	SEP 12	170.15

WATER YEAR 2000 HIGHEST 167.24 APR 26, 2000 LOWEST 171.30 OCT 13, 1999



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

CALVERT COUNTY--Continued

WELL NUMBER.--CA Bb 28. SITE ID.--384333076394702. PERMIT NUMBER.--CA-73-3721.
 LOCATION.--Lat 38°43'33", long 76°39'47", Hydrologic Unit 02060006, at Dunkirk Regional Park, Dunkirk.
 Owner: U.S. Geological Survey

AQUIFER.--Nanjemoy Formation of Lower Eocene age. Aquifer code: 124NNJM.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 170 ft; casing diameter 4 in., to 147 ft;
 casing diameter 2 in. from 147 to 160 ft; screen diameter 2 in. from 160 to 170 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 138.67 ft above sea level.

Measuring point: Top of casing, 1.60 ft above land surface.

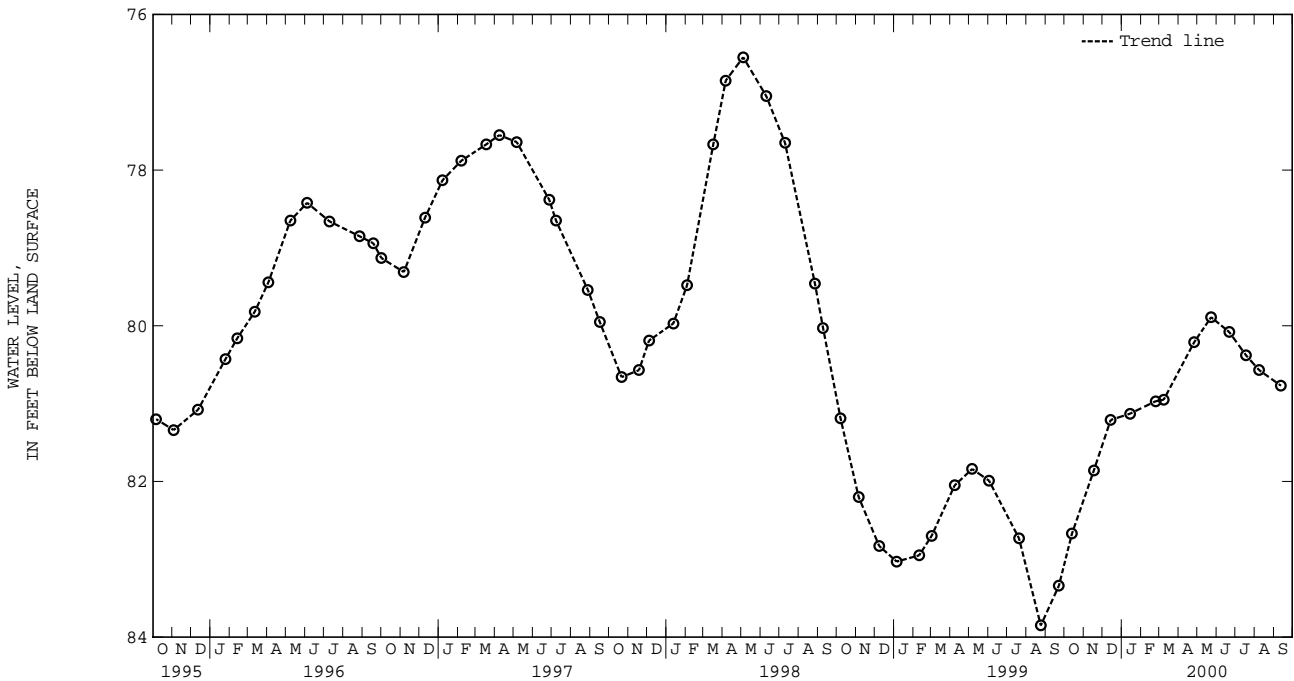
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--July 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 76.55 ft below land surface, May 4, 1998;
 lowest measured, 83.85 ft below land surface, Aug. 24, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1999	82.67	JAN 14, 2000	81.13	APR 26, 2000	80.21	JUL 18, 2000	80.38
NOV 17	81.86	FEB 24	80.97	MAY 23	79.89	AUG 08	80.57
DEC 14	81.21	MAR 08	80.95	JUN 21	80.08	SEP 12	80.77
WATER YEAR 2000 HIGHEST		79.89	MAY 23, 2000		LOWEST		82.67
						OCT 13, 1999	



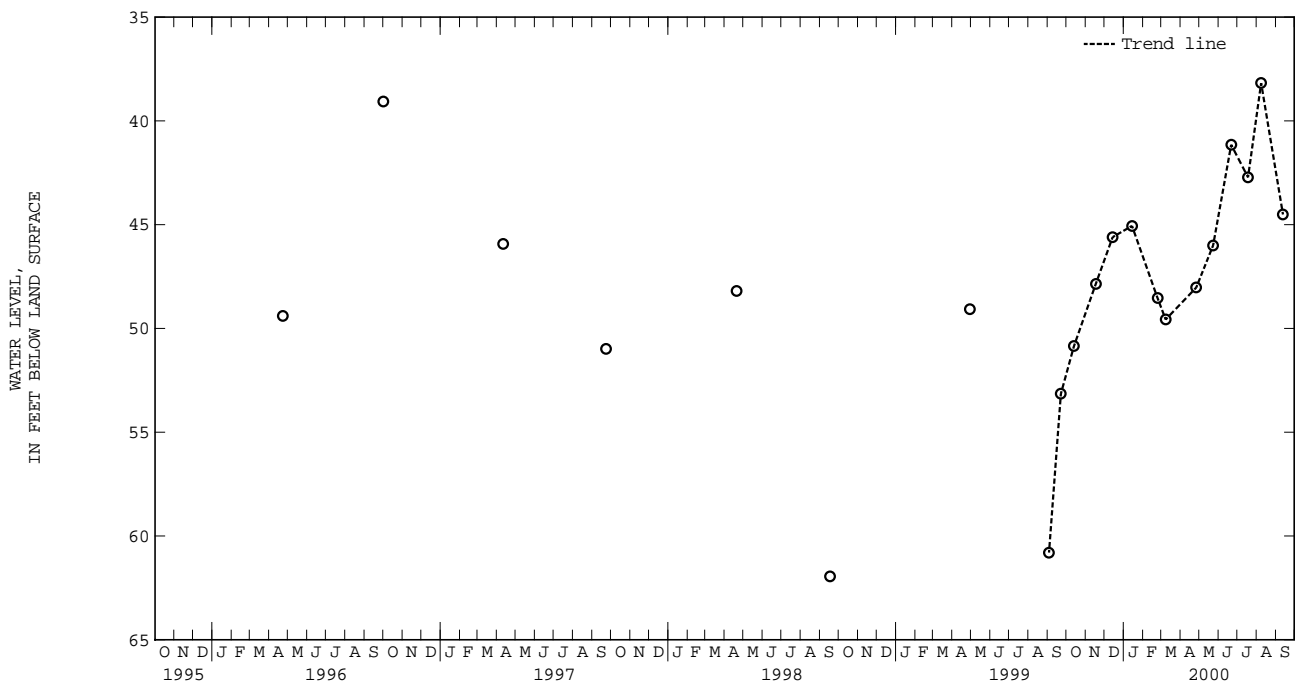
5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CALVERT COUNTY--Continued

WELL NUMBER.--CA Bc 25. SITE ID.--384114076320301. PERMIT NUMBER.--CA-67-0011.
 LOCATION.--Lat 38°41'14", long 76°32'03", Hydrologic Unit 02060006, at Chesapeake Beach Park, Chesapeake Beach.
 Owner: Chesapeake Beach Park, Inc.
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 396 ft; casing diameter 8 in., to 365 ft; screen diameter 8 in. from 365 to 396 ft.
 INSTRUMENTATION.--Twice yearly measurements from June 1993 to September 1999 with electric tape by U.S. Geological Survey personnel. Monthly measurements from September 1999 to current year.
 DATUM.--Elevation of land surface is 17.77 ft above sea level.
 Measuring point: Top of casing, 3.50 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.
 PERIOD OF RECORD.--June 1993 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.00 ft below land surface, July 23, 1966; lowest measured, 61.95 ft below land surface, Sept. 17, 1998.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1999	50.85	JAN 14, 2000	45.06	APR 26, 2000	48.03	JUL 18, 2000	42.72
NOV 17	47.85	FEB 24	48.54	MAY 23	46.00	AUG 08	38.18
DEC 14	45.60	MAR 08	49.57	JUN 21	41.15	SEP 12	44.51
WATER YEAR 2000 HIGHEST 38.18		AUG 08, 2000		LOWEST 50.85		OCT 13, 1999	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CALVERT COUNTY--Continued

WELL NUMBER.--CA Cc 18. SITE ID.--383940076314801.

LOCATION.--Lat 38°39'40", long 76°31'48", Hydrologic Unit 02060006, at Naval Research Laboratory, Randle Cliff.

Owner: U.S.Navy.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 476 ft; casing diameter 6 in., to 462 ft; screened from 462 to 476 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with water-level recorder Sept. 15, 1958 to Dec. 7, 1962.

DATUM.--Elevation of land surface is 111.31 ft above sea level.

Measuring point: Top of casing, 0.30 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water level measured 76.68 ft below land surface, Sept. 10, 1952.

Water levels are affected by local and regional ground-water withdrawal.

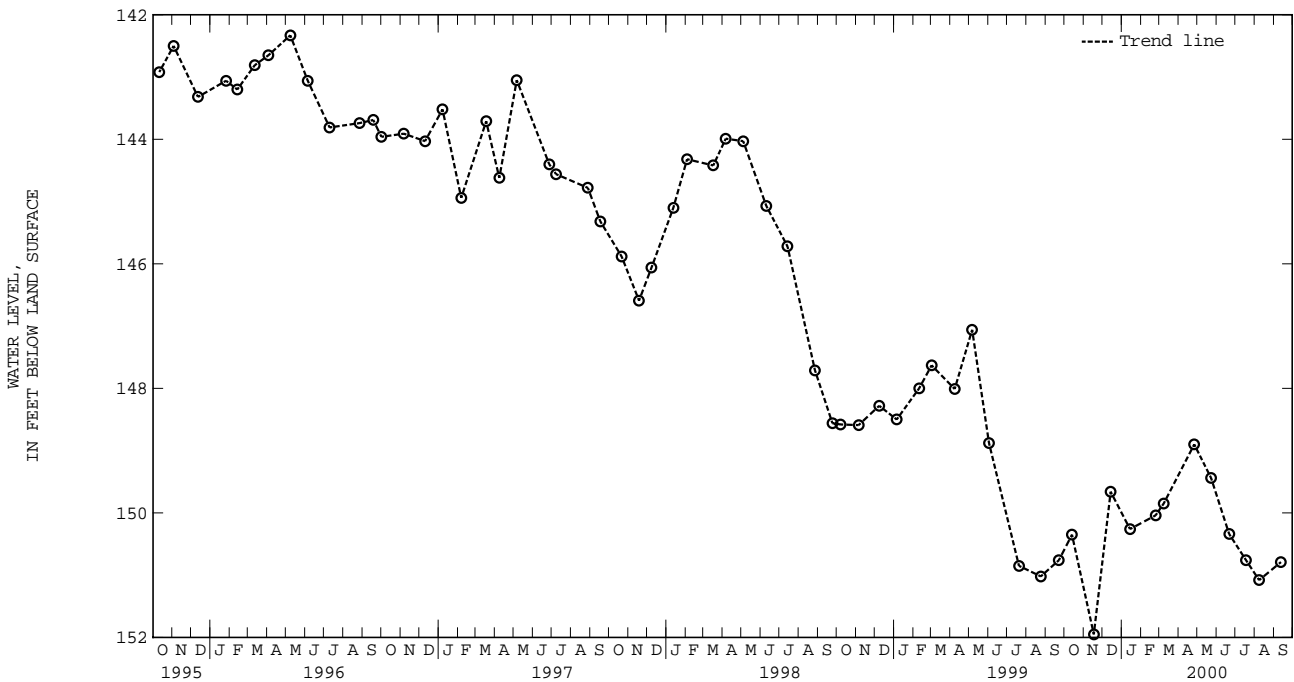
PERIOD OF RECORD.--September 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 103.63 ft below land surface, May 14, 1961; lowest measured, 151.95 ft below land surface, Nov. 17, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1999	150.35	JAN 14, 2000	150.26	APR 26, 2000	148.90	JUL 18, 2000	150.76
NOV 17	151.95	FEB 24	150.04	MAY 23	149.44	AUG 08	151.08
DEC 14	149.66	MAR 08	149.85	JUN 21	150.34	SEP 12	150.79

WATER YEAR 2000 HIGHEST 148.90 APR 26, 2000 LOWEST 151.95 NOV 17, 1999



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CALVERT COUNTY--Continued

WELL NUMBER.--CA Cc 57. SITE ID.--383605076344601. PERMIT NUMBER.--CA-73-2893.

LOCATION.--Lat 38°36'05", long 76°34'46", Hydrologic Unit 02060006, Cox Rd. near MD Rt. 263, Huntingtown.

Owner: U.S. Geological Survey.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 579 ft; casing diameter 4 in., to 211 ft; casing diameter 2 in. from 211 to 511 ft, and 521 to 579 ft; screen diameter 3 in. from 511 to 521 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 138.6 ft above sea level.

Measuring point: Top of casing, 1.66 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal.

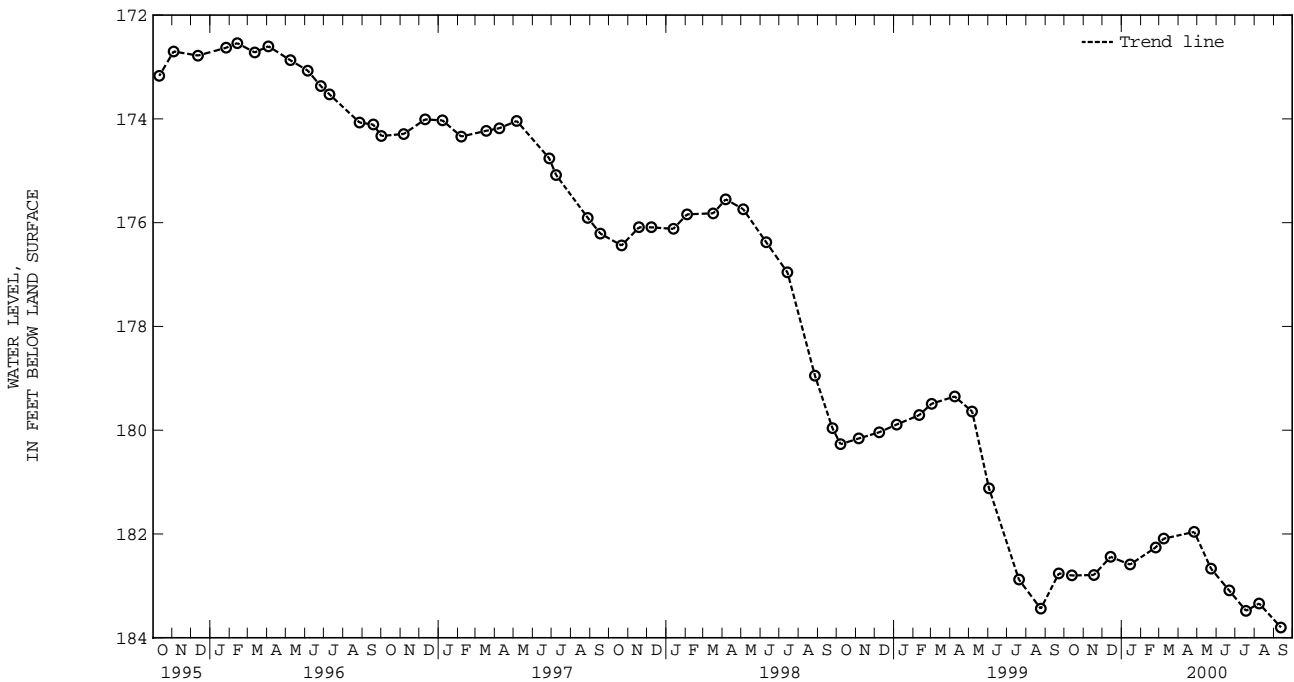
PERIOD OF RECORD.--December 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 140.00 ft below land surface, March 7, 1979; lowest measured, 183.80 ft below land surface, Sept. 12, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1999	182.80	JAN 14, 2000	182.59	APR 26, 2000	181.96	JUL 18, 2000	183.48
NOV 17	182.79	FEB 24	182.26	MAY 23	182.67	AUG 08	183.34
DEC 14	182.44	MAR 08	182.09	JUN 21	183.09	SEP 12	183.80

WATER YEAR 2000 HIGHEST 181.96 APR 26, 2000 LOWEST 183.80 SEP 12, 2000



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

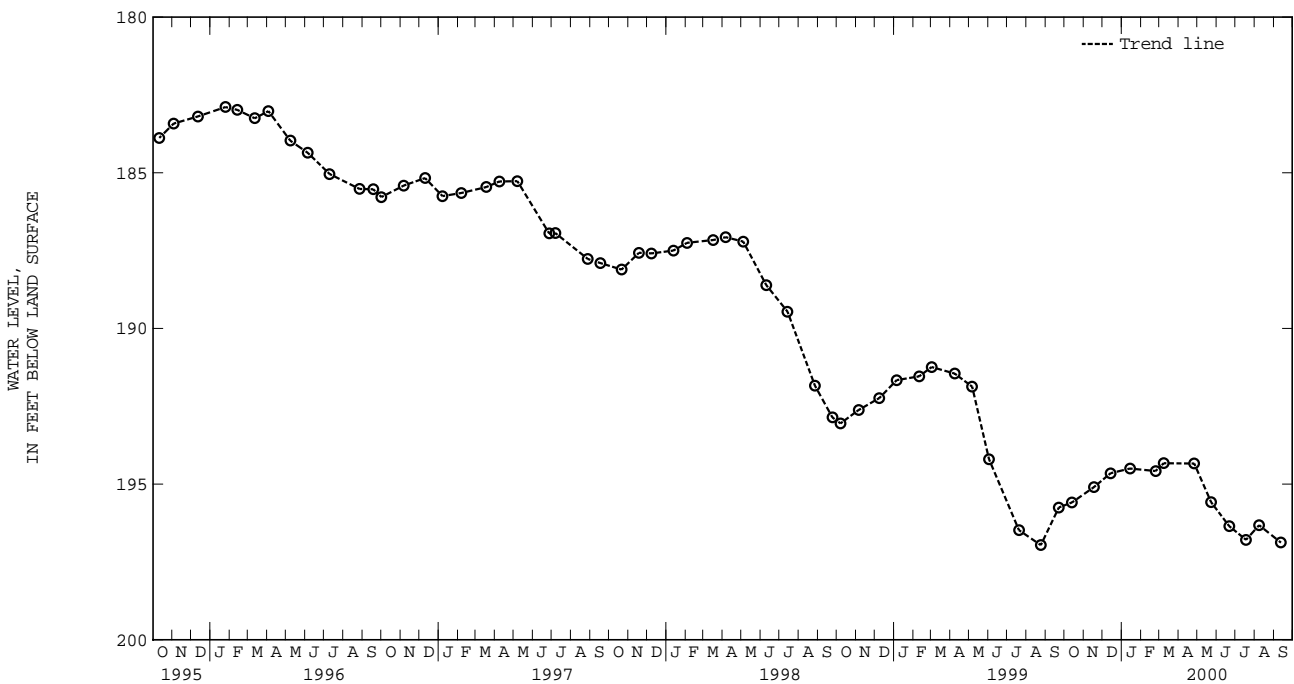
GROUND-WATER LEVELS IN MARYLAND--Continued

CALVERT COUNTY--Continued

WELL NUMBER.--CA Db 47. SITE ID.--383239076354201. PERMIT NUMBER.--CA-73-3304.
 LOCATION.--Lat 38°32'39", long 76°35'42", Hydrologic Unit 02060006, near Prince Frederick.
 Owner: U.S. Geological Survey.
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 570 ft; casing diameter 4 in., to 483 ft; casing diameter 2 in. from 483 to 560 ft; screen diameter 2 in. from 560 to 570 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 140 ft above sea level, from topographic map.
 Measuring point: Top of casing, 1.20 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal.
 PERIOD OF RECORD.--July 1979 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 148.54 ft below land surface, July 31, 1979; lowest measured, 196.96 ft below land surface, Aug. 24, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1999	195.59	JAN 14, 2000	194.50	APR 26, 2000	194.34	JUL 18, 2000	196.79
NOV 17	195.10	FEB 24	194.58	MAY 23	195.58	AUG 08	196.32
DEC 14	194.65	MAR 08	194.33	JUN 21	196.35	SEP 12	196.88
WATER YEAR 2000 HIGHEST 194.33		MAR 08, 2000		LOWEST 196.88		SEP 12, 2000	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CALVERT COUNTY--Continued

WELL NUMBER.--CA Db 65. SITE ID.--383216076351401. PERMIT NUMBER.--CA-81-2415.

LOCATION.--Lat 38°32'16", long 76°35'14", Hydrologic Unit 02060006, at St. Paul's Episcopal Church parking lot, Prince Frederick.

Owner: U.S. Geological Survey.

AQUIFER.--Upland Deposit of Pleistocene age. Aquifer code: 112UPLD.

WELL CHARACTERISTICS.--Drilled, water-table, observation well, depth 49 ft; casing diameter 3 in., to 22 ft, and 32 to 49 ft; screen diameter 3 in. from 22 to 32 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 159.33 ft above sea level.

Measuring Point: Top of plastic PVC casing, 2.38 ft above land surface.

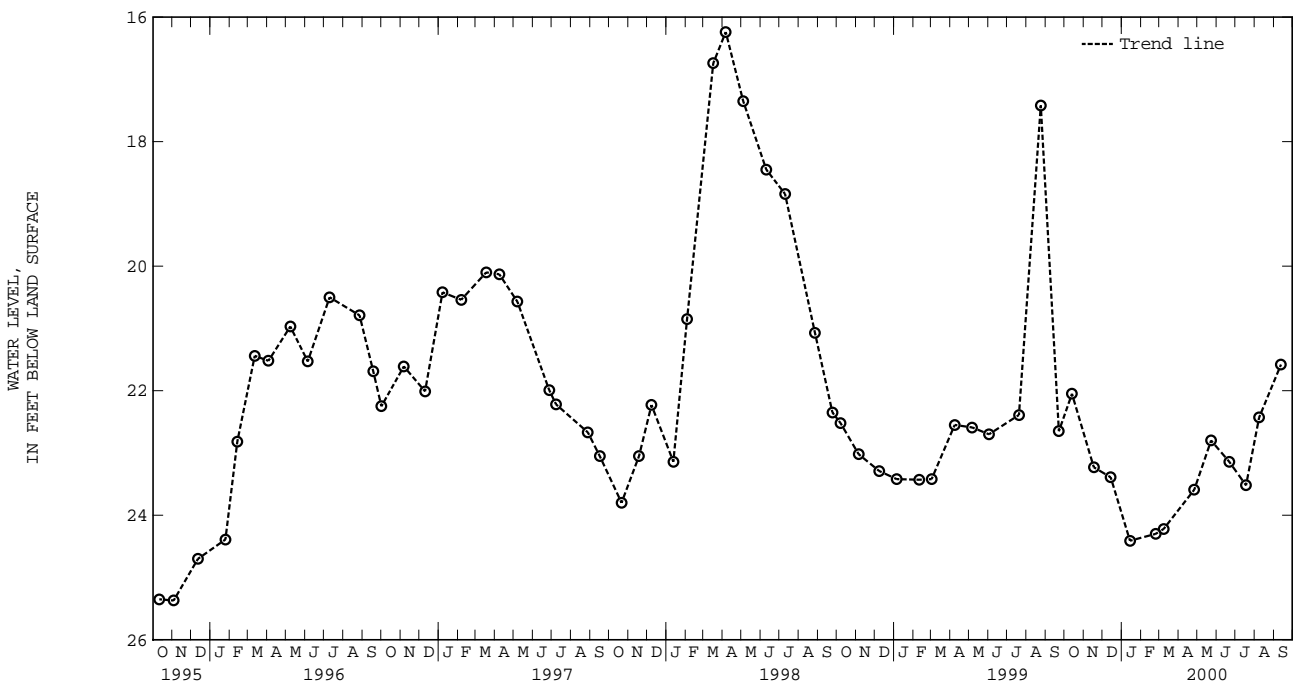
REMARKS.--Maryland Water-Level Network observation well,

PERIOD OF RECORD.--August 1986, October 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.64 ft below land surface, May 9, 1990; lowest measured, 27.09 ft below land surface, Feb. 14, 1989.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1999	22.05	JAN 14, 2000	24.41	APR 26, 2000	23.59	JUL 18, 2000	23.52
NOV 17	23.23	FEB 24	24.30	MAY 23	22.80	AUG 08	22.43
DEC 14	23.39	MAR 08	24.22	JUN 21	23.14	SEP 12	21.58
WATER YEAR 2000 HIGHEST 21.58		SEP 12, 2000		LOWEST 24.41		JAN 14, 2000	



CALVERT COUNTY--Continued

WELL NUMBER.--CA Ed 52. SITE ID.--382549076260101. PERMIT NUMBER.--CA-92-0081.

LOCATION.--Lat 38°25'49", long 76°26'01", Hydrologic Unit 020600004, at Calvert Cliffs Nuclear Power Plant, 4.3 mi. southeast of St. Leonard.

Owner: Baltimore Gas and Electric Co.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 590 ft; casing diameter 4.5 in., to 460 ft; casing diameter 2 in. from 455 to 565 ft, and 580 to 590 ft; screen diameter 2 in. from 565 to 580 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--30-minute recorder interval from April 27, 1995 to current year.

DATUM.--Altitude of land surface is 10 ft above sea level, from topographic map.

Measuring Point: Top of recorder platform, 1.40 ft above land surface.

REMARKS.--Southern Maryland Observation Well Network. Water levels are affected by local and regional ground-water withdrawal.

PERIOD OF RECORD.--April 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 70.66 ft below sea level, May 21, 1995;

lowest measured, 99.84 ft below sea level, Sept. 19, 2000.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-94.69	-96.79	-94.54	-97.31	-92.67	-94.49	-94.86	-95.93	-93.79	-95.93	-94.99	-96.42
2	-94.23	-96.19	-94.89	-96.88	-94.49	-97.08	-95.24	-96.65	-95.18	-95.96	-94.90	-96.28
3	-93.91	-94.83	-94.77	-96.91	-95.58	-96.99	-95.99	-96.99	-94.02	-95.67	-95.93	-96.97
4	-93.91	-96.13	-94.43	-95.18	-96.10	-97.14	-94.72	-95.99	-93.16	-94.14	-95.33	-96.45
5	-94.54	-96.82	-94.11	-94.80	-96.16	-97.37	-95.21	-96.65	-92.55	-93.85	-95.13	-96.22
6	-94.92	-96.30	-93.59	-94.26	-95.93	-96.50	-95.03	-96.59	-92.55	-93.19	-95.02	-95.85
7	-95.24	-97.72	-93.65	-97.02	-96.16	-97.77	-94.34	-95.03	-92.27	-93.74	-94.81	-96.54
8	-95.24	-97.14	-94.11	-95.73	-96.82	-97.89	-93.65	-94.63	-90.77	-95.24	-95.91	-97.06
9	-95.38	-97.31	-93.28	-94.54	-96.45	-97.31	-92.73	-94.23	-89.78	-94.38	-96.25	-97.34
10	-94.89	-96.76	-92.73	-93.71	-96.48	-97.43	-93.07	-94.11	-93.20	-94.53	-95.99	-97.43
11	-94.46	-96.56	-92.73	-95.87	-97.23	-98.41	-92.79	-94.11	-94.07	-95.27	-96.05	-96.91
12	-94.77	-96.53	-93.85	-96.07	-97.77	-98.75	-94.11	-96.07	-94.33	-95.10	-95.42	-97.26
13	-94.75	-97.48	-93.16	-94.40	-97.34	-98.61	-93.85	-95.03	-94.12	-95.25	-96.97	-98.81
14	-95.73	-97.57	-92.32	-93.59	-96.94	-97.80	-94.23	-95.61	-94.12	-95.13	-94.41	-98.29
15	-94.72	-96.19	-92.50	-93.30	-96.33	-97.28	-95.18	-96.22	-94.47	-95.53	-93.32	-94.70
16	-94.31	-95.61	-92.44	-93.28	-96.13	-97.40	-95.09	-96.19	-94.04	-95.88	-91.68	-93.52
17	-93.53	-94.89	-91.89	-93.19	-96.85	-97.66	-95.99	-97.48	-91.45	-94.67	-91.77	-93.52
18	-93.68	-95.81	-91.72	-92.73	-96.53	-97.77	-96.27	-97.48	-93.32	-95.30	-91.65	-93.46
19	-93.85	-95.29	-92.04	-92.73	-96.25	-97.46	-96.25	-97.48	-94.12	-94.96	-90.65	-91.85
20	-93.56	-94.40	-92.04	-92.81	-95.35	-96.74	-94.80	-96.68	-93.29	-94.99	-90.01	-91.02
21	-93.59	-95.26	-91.95	-92.55	-95.29	-95.99	-96.22	-99.79	-92.74	-93.92	-89.61	-90.53
22	-93.59	-94.89	-92.15	-93.79	-95.01	-95.84	-95.26	-97.72	-92.51	-93.75	-89.64	-90.56
23	-92.99	-93.88	-92.70	-93.94	-94.86	-95.93	-94.20	-96.01	-92.43	-93.89	-89.32	-90.16
24	-93.04	-93.74	-92.35	-93.19	-95.93	-97.08	-93.77	-94.98	-93.89	-95.79	-89.01	-90.10
25	-93.39	-94.23	-92.06	-92.93	-95.15	-96.59	-93.07	-94.08	-94.93	-96.45	-88.95	-89.96
26	-92.99	-95.35	-91.78	-92.67	-94.26	-95.21	-91.29	-94.52	-95.22	-96.22	-88.69	-89.50
27	-93.88	-95.84	-91.83	-92.38	-95.09	-96.42	-93.36	-95.93	-94.24	-95.50	-88.37	-89.32
28	-94.00	-95.84	-91.80	-92.81	-95.67	-97.25	-95.84	-97.48	-94.12	-95.30	-88.20	-89.18
29	-93.88	-96.36	-92.44	-94.11	-94.72	-95.73	-94.54	-96.45	-94.67	-96.25	-88.26	-89.44
30	-94.66	-96.59	-92.53	-93.51	-94.26	-95.09	-92.90	-94.86	---	---	-88.78	-89.64
31	-94.63	-96.19	---	---	-93.94	-95.01	-92.96	-93.94	---	---	-88.78	-90.41
MONTH	-92.99	-97.72	-91.72	-97.31	-92.67	-98.75	-91.29	-99.79	-89.78	-96.45	-88.20	-98.81

GROUND-WATER LEVELS IN MARYLAND--Continued

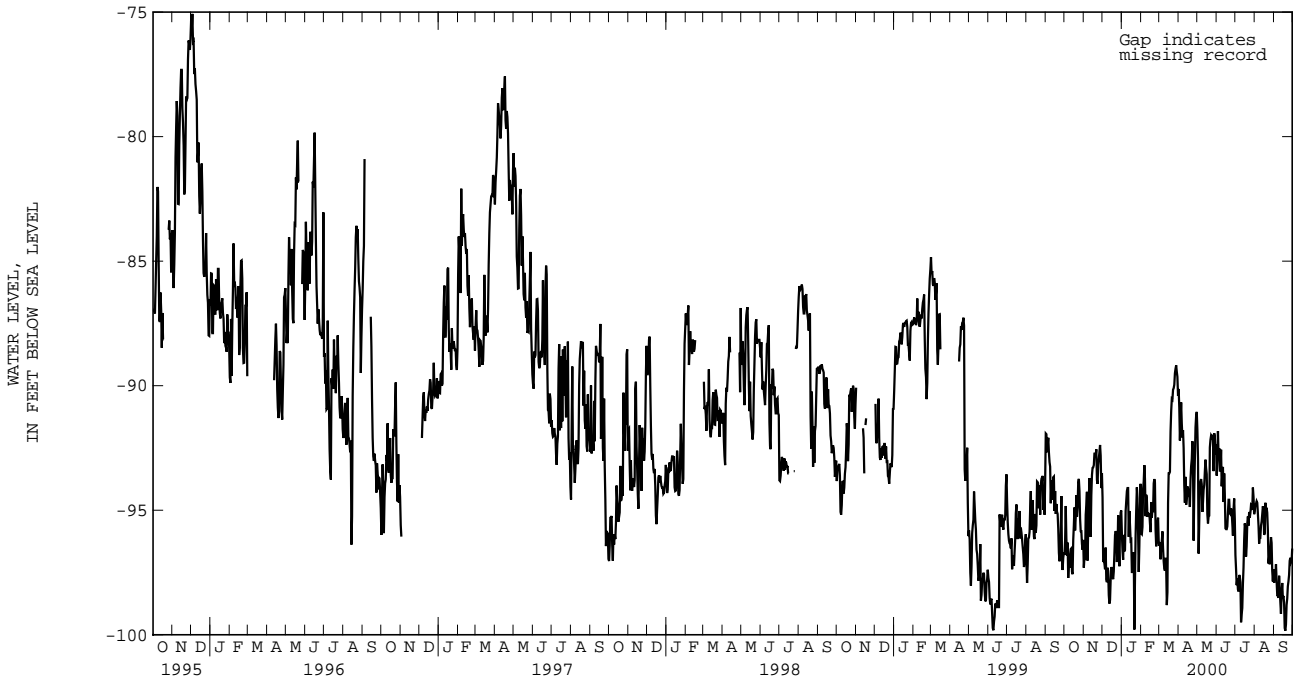
CALVERT COUNTY--Continued

CA Ed 52--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-89.21	-90.13	-90.47	-91.77	-91.22	-93.61	-94.33	-96.80	-93.15	-95.02	-96.11	-97.92
2	-88.69	-90.88	-90.99	-92.95	-91.65	-92.95	-95.68	-97.37	-93.55	-94.78	-96.28	-97.54
3	-90.24	-92.20	-92.14	-96.74	-90.90	-91.82	-95.71	-98.01	-93.46	-94.76	-96.34	-97.66
4	-90.01	-91.33	-93.38	-95.47	-90.79	-92.86	-95.91	-97.75	-93.23	-94.64	-96.14	-97.17
5	-89.75	-90.67	-92.89	-93.98	-91.51	-92.51	-96.22	-98.18	-93.32	-94.70	-96.57	-97.83
6	-89.78	-91.51	-92.51	-93.84	-90.90	-93.41	-96.57	-98.26	-94.12	-95.13	-96.57	-98.41
7	-90.85	-92.08	-92.74	-93.75	-91.82	-93.41	-96.51	-97.60	-94.04	-95.62	-96.83	-98.41
8	-90.99	-91.79	-92.54	-93.95	-91.39	-92.57	-96.48	-97.66	-95.02	-96.34	-97.20	-98.52
9	-91.51	-92.51	-93.43	-95.07	-91.54	-94.04	-96.68	-97.89	-94.35	-96.02	-96.88	-97.63
10	-91.82	-94.01	-93.58	-94.67	-92.26	-93.52	-97.11	-99.50	-94.24	-96.05	-96.97	-98.15
11	-93.15	-94.70	-93.20	-94.18	-91.91	-93.26	-97.63	-99.18	-94.70	-95.62	-96.63	-98.70
12	-92.89	-93.66	-93.00	-93.98	-92.51	-94.67	-97.80	-98.93	-94.24	-95.45	-97.40	-99.16
13	-93.29	-94.78	-92.28	-93.43	-92.08	-93.52	-96.97	-97.95	-94.09	-95.16	-97.32	-98.35
14	-93.23	-94.53	-92.14	-92.97	-91.82	-94.35	-95.82	-97.29	-93.69	-94.84	-96.22	-97.92
15	-92.80	-94.04	-92.02	-93.32	-92.57	-95.73	-95.36	-96.19	-93.69	-95.07	-95.88	-98.52
16	-92.80	-94.47	-92.26	-93.55	-94.04	-95.76	-94.33	-95.53	-93.89	-95.99	-97.46	-98.44
17	-93.32	-94.15	-92.74	-95.16	-94.73	-95.76	-93.78	-95.73	-92.69	-95.91	-97.26	-98.72
18	-93.26	-94.27	-94.18	-95.53	-94.24	-95.65	-94.90	-96.86	-92.86	-94.70	-97.43	-99.73
19	-93.15	-94.87	-93.81	-95.25	-93.84	-95.10	-95.10	-96.45	-94.30	-95.19	-98.81	-99.84
20	-92.60	-93.78	-92.48	-95.22	-93.43	-94.58	-94.47	-95.53	-93.84	-94.90	-98.23	-99.59
21	-92.26	-93.23	-91.59	-92.48	-92.97	-94.58	-94.15	-95.25	-93.92	-95.10	-97.72	-98.81
22	-91.45	-92.95	-91.22	-92.17	-93.61	-95.13	-94.07	-95.62	-94.56	-95.82	-97.52	-98.55
23	-91.13	-92.23	-90.73	-92.00	-93.69	-95.16	-94.12	-95.07	-95.10	-97.14	-97.14	-98.06
24	-92.17	-93.18	-90.41	-92.05	-93.23	-94.93	-94.15	-95.30	-95.65	-96.88	-96.86	-97.86
25	-92.63	-96.22	-90.96	-91.97	-93.41	-95.10	-94.04	-95.10	-95.91	-97.17	-96.19	-97.60
26	-92.95	-94.27	-91.16	-92.20	-93.46	-95.53	-93.58	-94.78	-95.47	-96.48	-96.14	-97.03
27	-90.67	-92.95	-91.62	-93.43	-93.95	-96.02	-93.58	-94.81	-94.84	-96.08	-95.99	-96.91
28	-90.24	-91.68	-90.65	-91.91	-93.95	-94.96	-93.58	-94.99	-94.67	-96.31	-95.79	-97.11
29	-90.56	-91.22	-90.30	-92.08	-93.12	-94.53	-92.14	-94.09	-95.30	-97.43	-96.08	-97.06
30	-90.33	-91.05	-90.62	-92.77	-93.41	-95.36	-92.51	-94.47	-96.14	-97.86	-95.13	-96.54
31	---	---	-91.62	-92.37	---	---	-93.61	-95.16	-96.37	-97.37	---	---
MONTH	-88.69	-96.22	-90.30	-96.74	-90.79	-96.02	-92.14	-99.50	-92.69	-97.86	-95.13	-99.84
YEAR	-88.20	-99.84										

Daily Low Water Levels



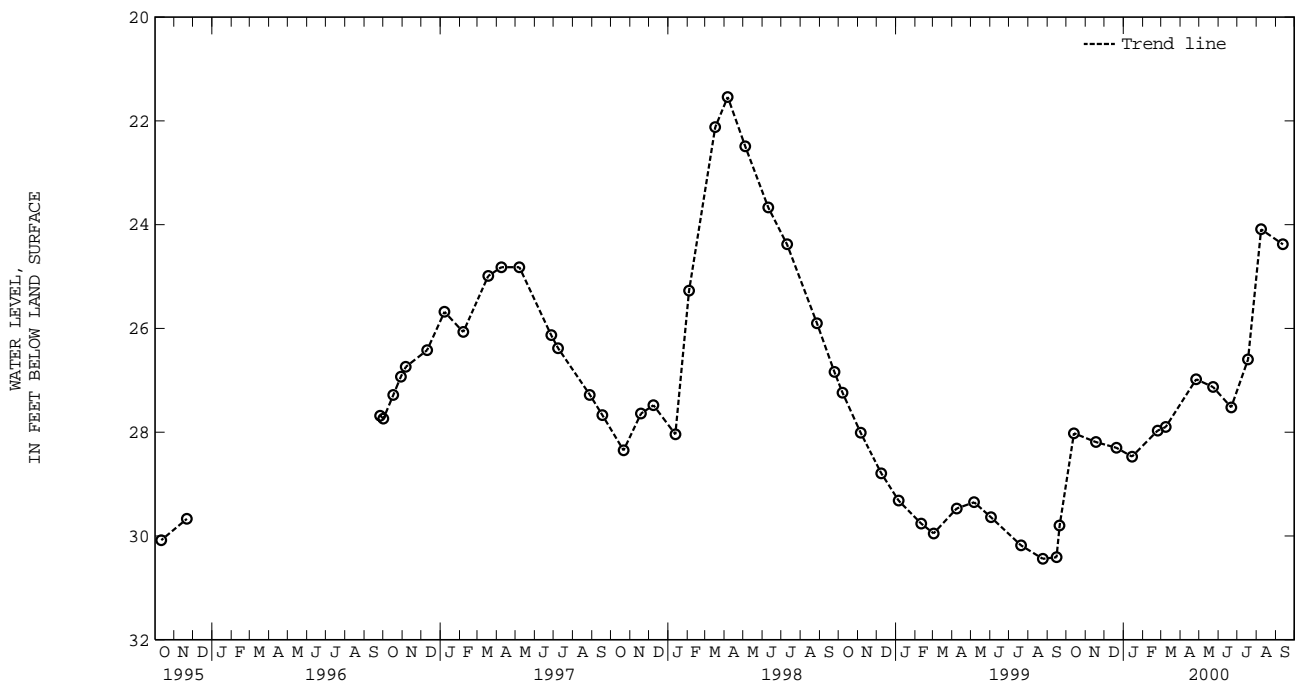
5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CALVERT COUNTY--Continued

WELL NUMBER.--CA Fc 13. SITE ID.--382343076302901. PERMIT NUMBER.--CA-81-2391.
 LOCATION.--Lat 38°23'41", long 76°30'29", Hydrologic Unit 02060006, Jefferson Patterson State Park and Museum.
 Owner: U.S. Geological Survey.
 AQUIFER.--Chesapeake Group of Miocene age. Aquifer code: 122CSPK.
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 34 ft; casing diameter 3.5 in., to 29 ft; screen diameter 3.5 in. from 29 to 34 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from Oct. 2, 1986 to April 16, 1996.
 DATUM.--Elevation of land surface is 47.44 ft above sea level.
 Measuring Point: Top of casing, 2.00 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well, Maryland Water Quality Network observation well.
 PERIOD OF RECORD.--October 1986 to November 1995, September 1996 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.54 ft below land surface, April 6, 1998;
 lowest measured, 30.69 ft below land surface, Feb. 27, 1989.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1999	28.02	JAN 14, 2000	28.47	APR 26, 2000	26.98	JUL 18, 2000	26.60
NOV 17	28.19	FEB 24	27.97	MAY 23	27.13	AUG 08	24.09
DEC 20	28.30	MAR 08	27.90	JUN 21	27.52	SEP 12	24.38
WATER YEAR 2000 HIGHEST		24.09	AUG 08, 2000		LOWEST		28.47
						JAN 14, 2000	



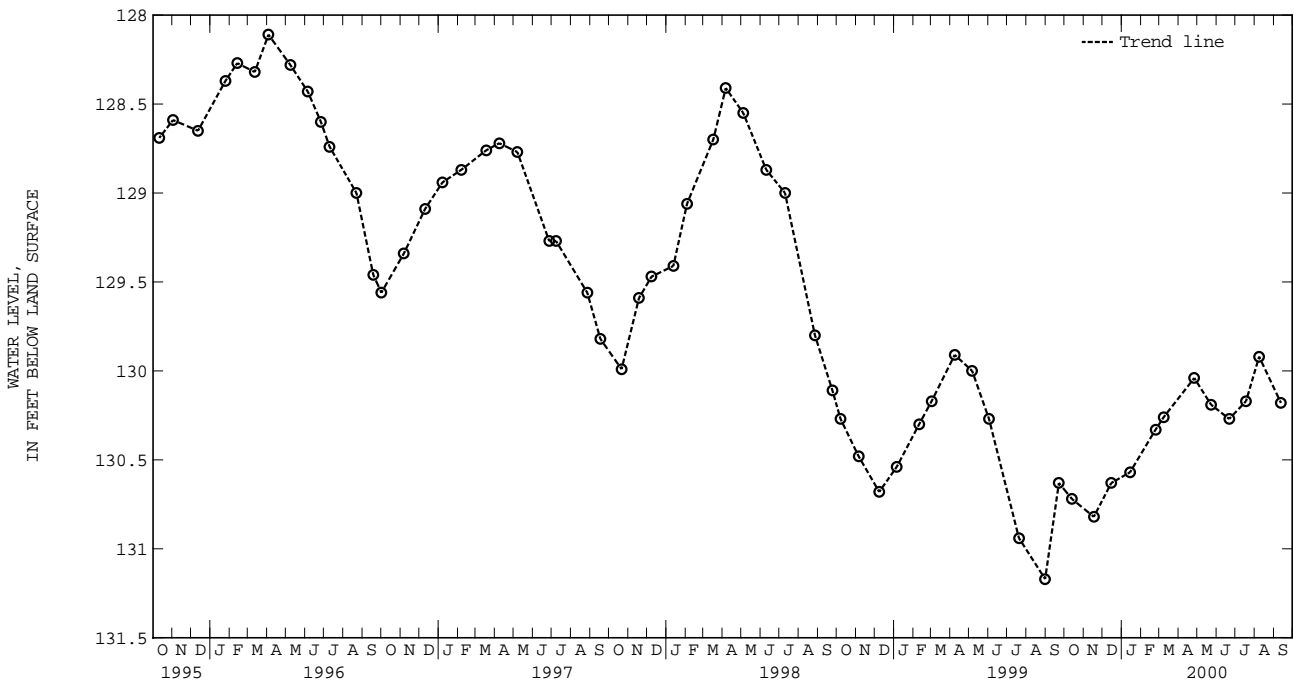
GROUND-WATER LEVELS IN MARYLAND--Continued

CALVERT COUNTY--Continued

WELL NUMBER.--CA Fd 51. SITE ID.--382408076260401. PERMIT NUMBER.--CA-73-1449.
 LOCATION.--Lat 38°24'08", long 76°26'04", Hydrologic Unit 02060004, at Calvert Cliffs State Park.
 Owner: U.S. Geological Survey.
 AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 352 ft; casing diameter 6 in., to 140 ft; casing diameter 2 in. from 140 to 342 ft; screen diameter 2 in. from 342 to 352 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 129.4 ft above sea level.
 Measuring point: Top of protective casing, 3.63 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well.
 PERIOD OF RECORD.--February 1977 to current year. Water levels are affected by local and regional ground-water withdrawal.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 116.36 ft below land surface, Jan. 8, 1980; lowest measured, 131.17 ft below land surface, Aug. 31, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1999	130.72	JAN 14, 2000	130.57	APR 26, 2000	130.04	JUL 18, 2000	130.17
NOV 17	130.82	FEB 24	130.33	MAY 23	130.19	AUG 08	129.92
DEC 15	130.63	MAR 08	130.26	JUN 21	130.27	SEP 12	130.18
WATER YEAR 2000 HIGHEST 129.92		AUG 08, 2000		LOWEST 130.82		NOV 17, 1999	



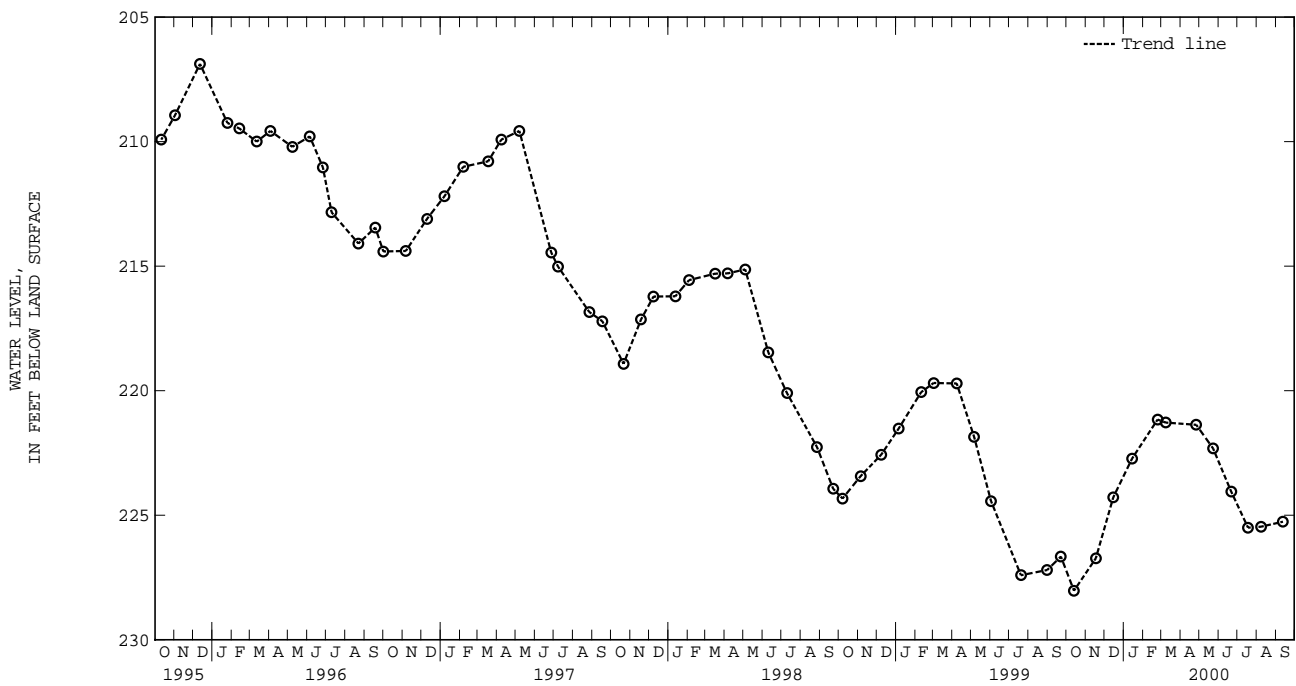
5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CALVERT COUNTY--Continued

WELL NUMBER.--CA Fd 54. SITE ID.--382407076260301. PERMIT NUMBER.--CA-73-2892.
 LOCATION.--Lat 38°24'07", long 76°26'03", Hydrologic Unit 02060004, at Calvert Cliffs State Park.
 Owner: U.S. Geological Survey.
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 698 ft; casing diameter 4 in., to 234 ft; casing diameter 2 in. from 234 to 641 ft, and 651 to 698 ft; screen diameter 2 in. from 641 to 651 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 129.4 ft above sea level.
 Measuring point: Top of casing, 1.92 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal.
 PERIOD OF RECORD.--October 1978 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 142.69 ft below land surface, April 21, 1980; lowest measured, 228.03 ft below land surface, Oct. 13, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1999	228.03	JAN 14, 2000	222.73	APR 26, 2000	221.37	JUL 18, 2000	225.50
NOV 17	226.73	FEB 24	221.16	MAY 23	222.32	AUG 08	225.46
DEC 15	224.28	MAR 08	221.28	JUN 21	224.05	SEP 12	225.26
WATER YEAR 2000 HIGHEST 221.16 FEB 24, 2000		LOWEST 228.03 OCT 13, 1999					



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

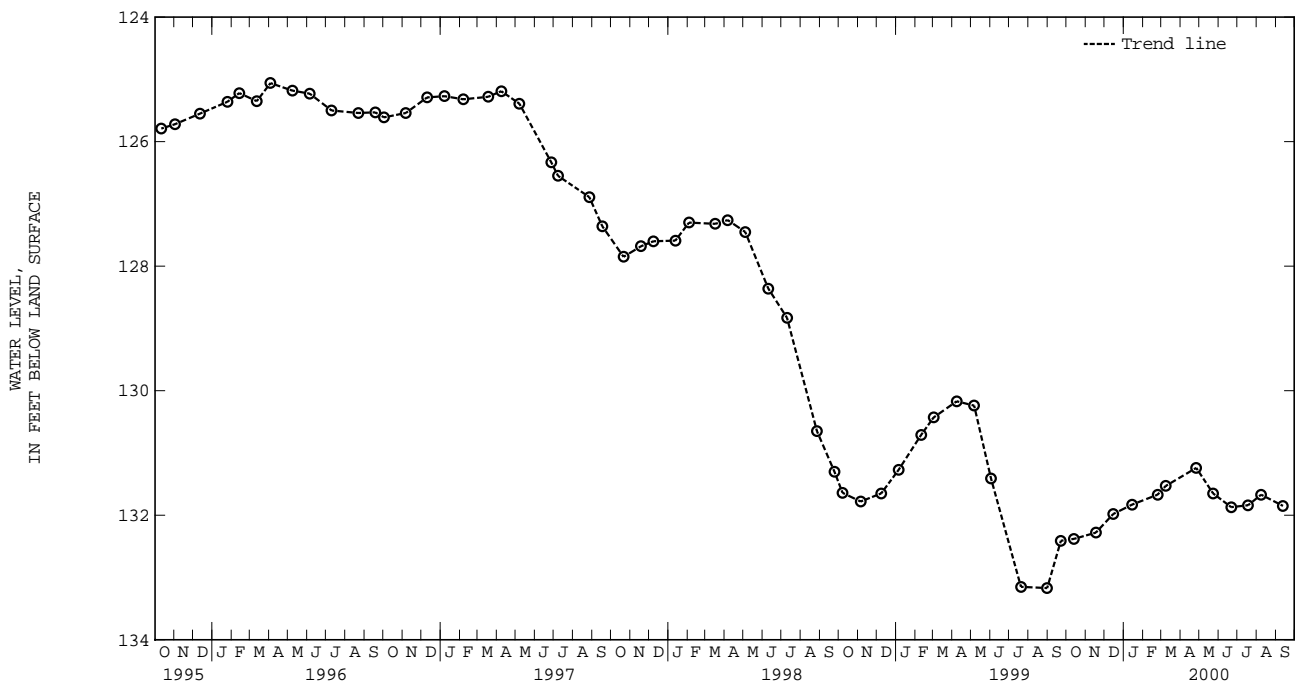
CALVERT COUNTY--Continued

WELL NUMBER.--CA Fe 22. SITE ID.--382318076242401. PERMIT NUMBER.--CA-73-1386.
 LOCATION.--Lat 38°23'18", long 76°24'24", Hydrologic Unit 02060004, at Columbia LNG Plant, Cove Point.
 Owner: U.S. Geological Survey.
 AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 350 ft; casing diameter 6 in., to 10 ft; casing diameter 2 in. from 10 to 340 ft; screen diameter 2 in. from 340 to 350 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 113.9 ft above sea level.
 Measuring point: Top of casing, 2.82 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal.
 PERIOD OF RECORD.--June 1976 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 111.50 ft below land surface, Oct. 5, 1976; lowest measured, 133.17 ft below land surface, Aug. 31, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1999	132.38	JAN 14, 2000	131.83	APR 26, 2000	131.24	JUL 18, 2000	131.84
NOV 17	132.28	FEB 24	131.67	MAY 23	131.65	AUG 08	131.67
DEC 15	131.98	MAR 08	131.53	JUN 21	131.87	SEP 12	131.85

WATER YEAR 2000 HIGHEST 131.24 APR 26, 2000 LOWEST 132.38 OCT 13, 1999



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CALVERT COUNTY--Continued

WELL NUMBER.--CA Gd 6. SITE ID.--381952076270901.

LOCATION.--Lat 38°19'52", Long 76°27'09", Hydrologic Unit 02060006, at the Lord Calvert Yacht Club, 0.5 mi northeast of Solomons.

Owner: Calvert Marina.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 493 ft; casing diameter 8 in., to 272 ft; casing diameter 6 in. from 272 to 472 ft; screened from 472 to 493 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with a graphic water-level recorder from Oct. 19, 1949 to Feb. 25, 1960.

DATUM.--Elevation of land surface is 12.73 ft above sea level.

Measuring point: Top of manhole rim, 6.59 ft above land surface.

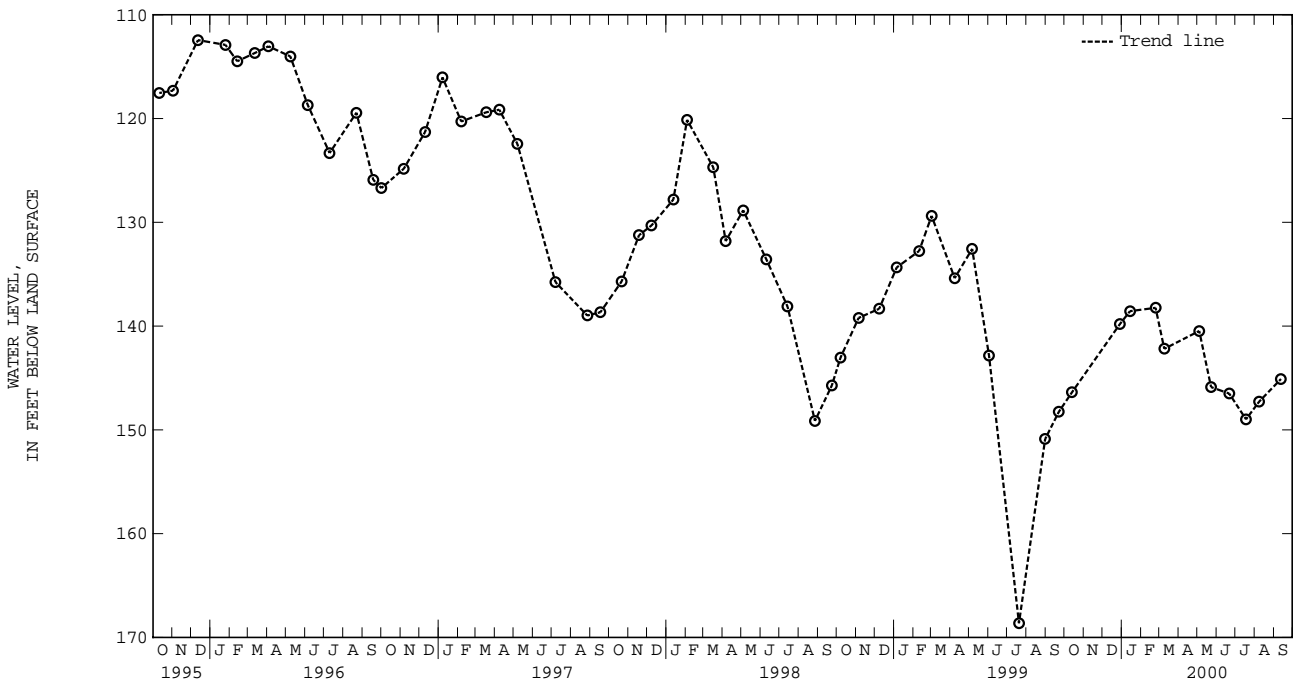
REMARKS.--Maryland Water-Level Network observation well. Water level reported at land surface 1942; water-level measured 58.9 ft below land surface, Jan. 13, 1944. Well not measured from April through July 1988 during building construction at well site. On July 18, 1991 the water-level measured, 119.93 ft below land surface during an extended pumping period. Water levels are affected by local and regional ground-water withdrawal.

PERIOD OF RECORD.-- October 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.15 ft below land surface, May 18, 1950; lowest measured, 168.63 ft below land surface, July 20, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1999	146.38	FEB 24, 2000	138.24	MAY 23, 2000	145.88	AUG 08, 2000	147.28
DEC 29	139.79	MAR 09	142.19	JUN 21	146.50	SEP 12	145.10
JAN 14, 2000	138.56	MAY 04	140.47	JUL 18	148.98		
WATER YEAR 2000 HIGHEST 138.24 FEB 24, 2000		LOWEST 148.98 JUL 18, 2000					



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CAROLINE COUNTY

WELL NUMBER.--CO Bc 1. SITE ID.--390333075504501.

LOCATION.--Lat 39°03'33", long 75°50'45", Hydrologic Unit 02060005, at Baltimore Corner.

Owner: Maryland State Highway Administration.

AQUIFER.--Pleistocene Series of Pleistocene age. Aquifer code: 112PLSC.

WELL CHARACTERISTICS.--Driven, observation, water-table well, depth 20.5 ft; well point diameter 1.25 in., to 20.5 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 50 ft above sea level, from topographic map.

Measuring point: Top of casing, 0.10 ft below land surface.

REMARKS.--Maryland Water-Level Network observation well.

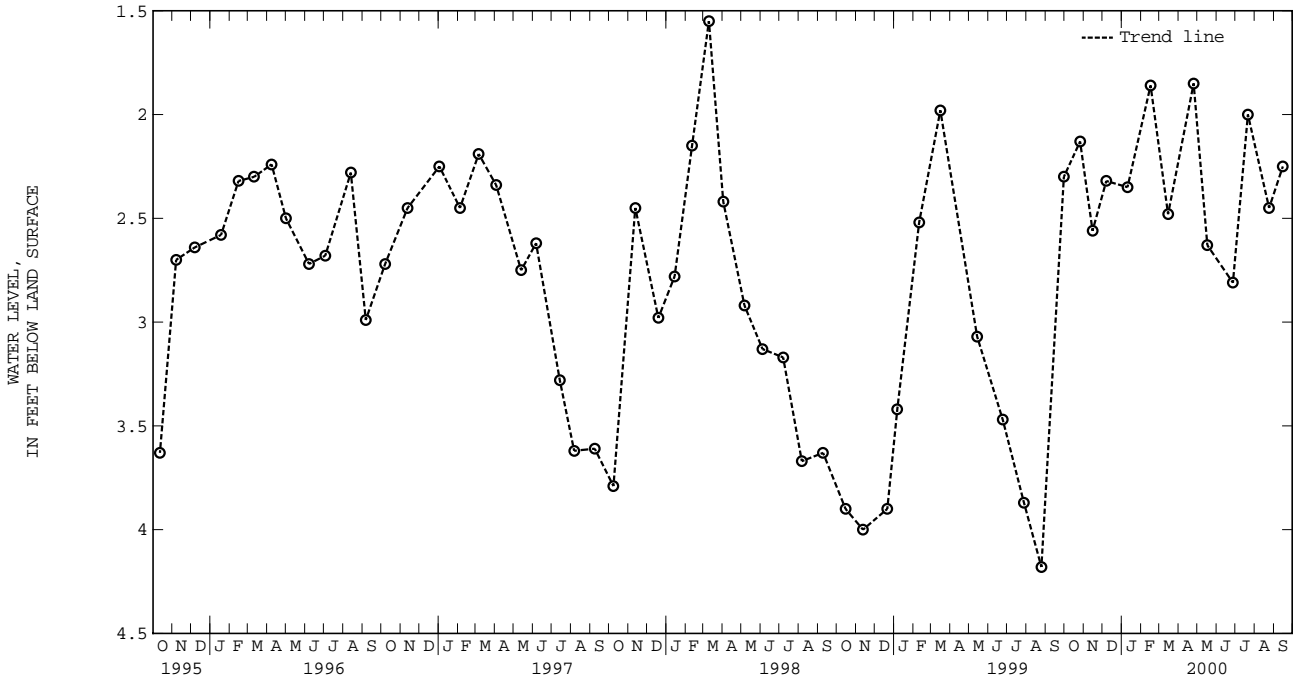
PERIOD OF RECORD.--August 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.25 ft above land surface, Nov. 27, 1951;

lowest measured, 4.37 ft below land surface, Oct. 11, 1957.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 1999	2.13	JAN 10, 2000	2.35	APR 25, 2000	1.85	JUL 21, 2000	2.00
NOV 15	2.56	FEB 16	1.86	MAY 17	2.63	AUG 24	2.45
DEC 07	2.32	MAR 15	2.48	JUN 27	2.81	SEP 15	2.25
WATER YEAR 2000 HIGHEST		1.85	APR 25, 2000 LOWEST		2.81	JUN 27, 2000	



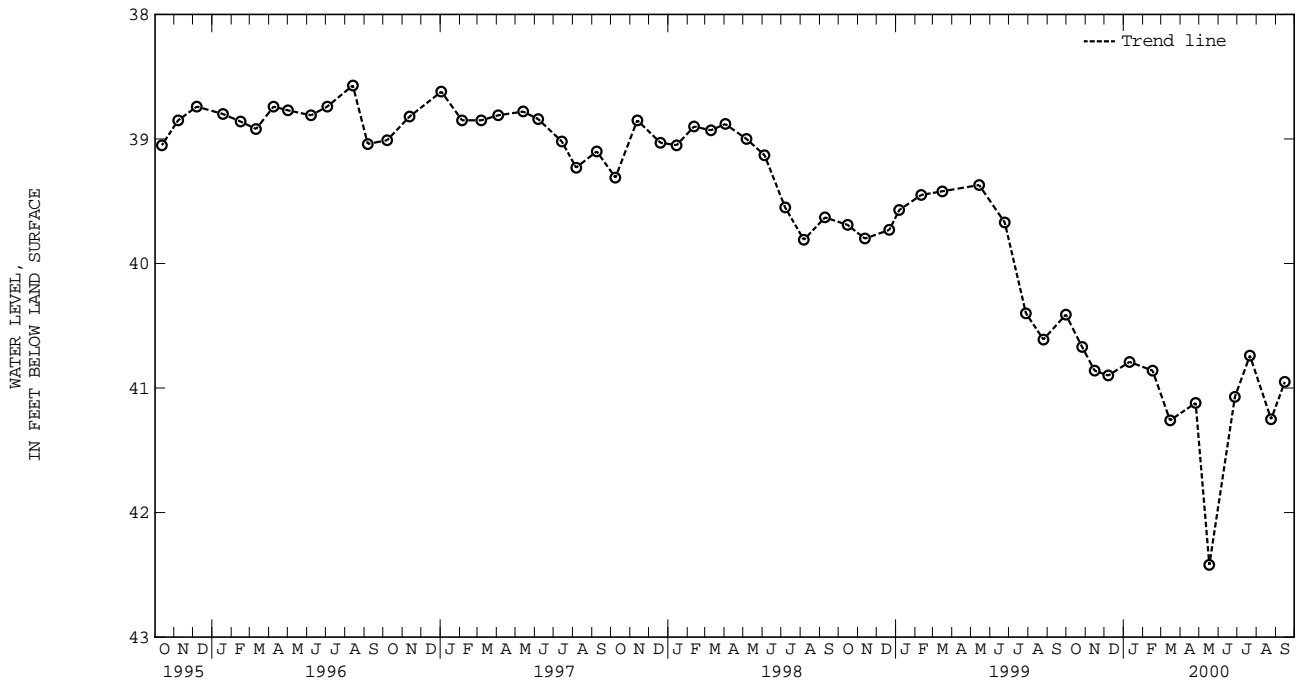
5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CAROLINE COUNTY--Continued

WELL NUMBER.--CO Bd 53. SITE ID.--390227075470201. PERMIT NUMBER.--CO-73-0541.
 LOCATION.--Lat 39°02'27", long 75°47'02", Hydrologic Unit 02060005, near MD Rt. 311, Goldsboro.
 Owner: U.S. Geological Survey.
 AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 312 ft; casing diameter 6 in., to 70 ft;
 casing diameter 2 in. from 70 to 300 ft; screen diameter 2 in. from 300 to 312 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 60 ft above sea level, from topographic map.
 Measuring point: Top of casing, 1.45 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal.
 PERIOD OF RECORD.--February 1976 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.64 ft below land surface, Dec. 10, 1976;
 lowest measured, 42.42 ft below land surface, May 17, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 1999	40.67	JAN 10, 2000	40.79	APR 25, 2000	41.12	JUL 21, 2000	40.74
NOV 15	40.86	FEB 16	40.86	MAY 17	42.42	AUG 24	41.25
DEC 07	40.90	MAR 15	41.26	JUN 27	41.07	SEP 15	40.95
WATER YEAR 2000 HIGHEST 40.67 OCT 26, 1999		LOWEST 42.42 MAY 17, 2000					



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

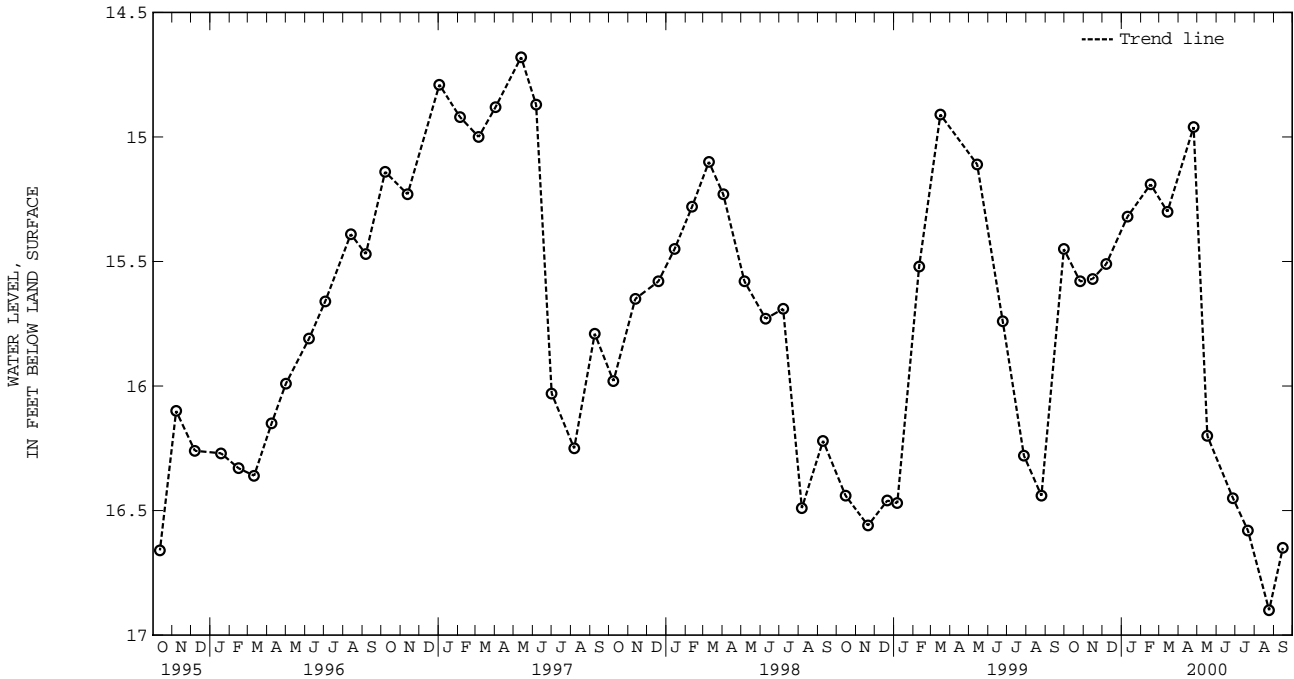
CAROLINE COUNTY--Continued

WELL NUMBER.--CO Dc 129. SITE ID.--385310075503601. PERMIT NUMBER.--CO-02-3881.
 LOCATION.--Lat 38°53'10", long 75°50'36", Hydrologic Unit 02060005, at West Denton.
 Owner: Wilson Laurel Farms, Inc.
 AQUIFER.--Choptank Formation of Middle Miocene age. Aquifer code: 122CPNK.
 WELL CHARACTERISTICS.--Drilled, unused, artesian well, depth 229 ft; casing diameter 4 in., to 137.5 ft; open hole.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with water level recorder from Aug. 1, 1956 to June 8, 1957.
 DATUM.--Elevation of land surface is 20 ft above sea level, from topographic map.
 Measuring point: Top of casing, 1.20 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well.
 PERIOD OF RECORD.--August 1956 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.63 ft below land surface, April 5, 1973;
 lowest measured, 56.09 ft below land surface, Nov. 5, 1965.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 1999	15.58	JAN 10, 2000	15.32	APR 25, 2000	14.96	JUL 21, 2000	16.58
NOV 15	15.57	FEB 16	15.19	MAY 17	16.20	AUG 24	16.90
DEC 07	15.51	MAR 14	15.30	JUN 27	16.45	SEP 15	16.65

WATER YEAR 2000 HIGHEST 14.96 APR 25, 2000 LOWEST 16.90 AUG 24, 2000



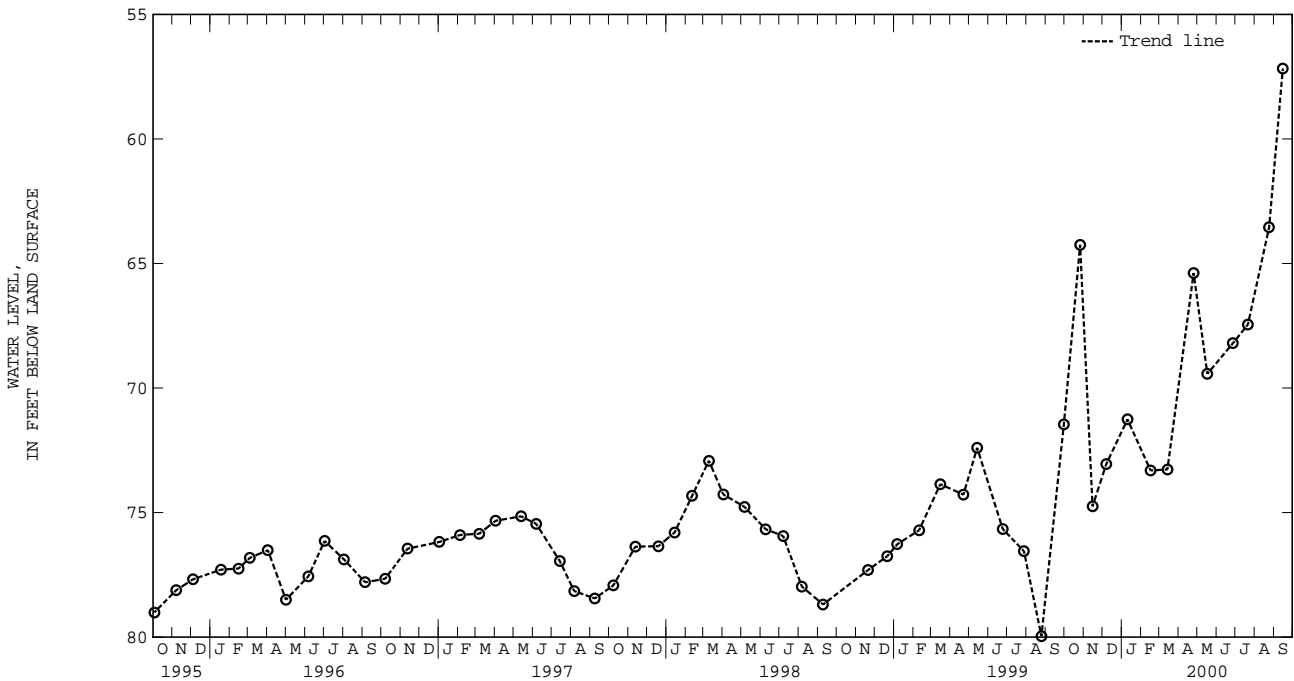
5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CAROLINE COUNTY--Continued

WELL NUMBER.--CO Dd 47. SITE ID.--385217075490601. PERMIT NUMBER.--CO-73-0486.
 LOCATION.--Lat 38°52'17", long 75°49'06", Hydrologic Unit 02060005, at Denton Sewage Lagoon.
 Owner: U.S. Geological Survey.
 AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 380 ft; casing diameter 4 in., to 100 ft;
 casing diameter 2 in. from 100 to 370 ft; screen diameter 2 in. from 370 to 380 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 46 ft above sea level, from topographic map.
 Measuring point: Top of casing, 3.25 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well.
 PERIOD OF RECORD.--April 1976 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 62.78 ft below land surface, May 27, 1976;
 lowest measured, 79.96 Ft below land surface, Aug. 25, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 1999	64.25	JAN 10, 2000	71.26	APR 25, 2000	65.38	JUL 21, 2000	67.45
NOV 15	74.75	FEB 16	73.31	MAY 17	69.43	AUG 24	63.55
DEC 07	73.05	MAR 14	73.27	JUN 27	68.20	SEP 15	57.17
WATER YEAR 2000 HIGHEST 57.17		SEP 15, 2000		LOWEST 74.75		NOV 15, 1999	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

CARROLL COUNTY

WELL NUMBER.--CL Ad 47. SITE ID.--394008077005601. PERMIT NUMBER.--CL-73-3178.

LOCATION.--Lat 39°40'08", long 77°00'6", Hydrologic Unit 02070009, at Union Mills Homestead Park.

Owner: U.S. Geological Survey.

AQUIFER.--Marburg Formation of Paleozoic age. Aquifer code: 300MRBG.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 310 ft; casing diameter 6 in., to 35 ft.; open hole.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 540 ft above sea level, from topographic map.

Measuring point: Top of casing 2.97 ft above land surface.

REMARKS.--Maryland Water-Level Network and Collection of Basic Records (CBR) national network observation well (see figure 3).

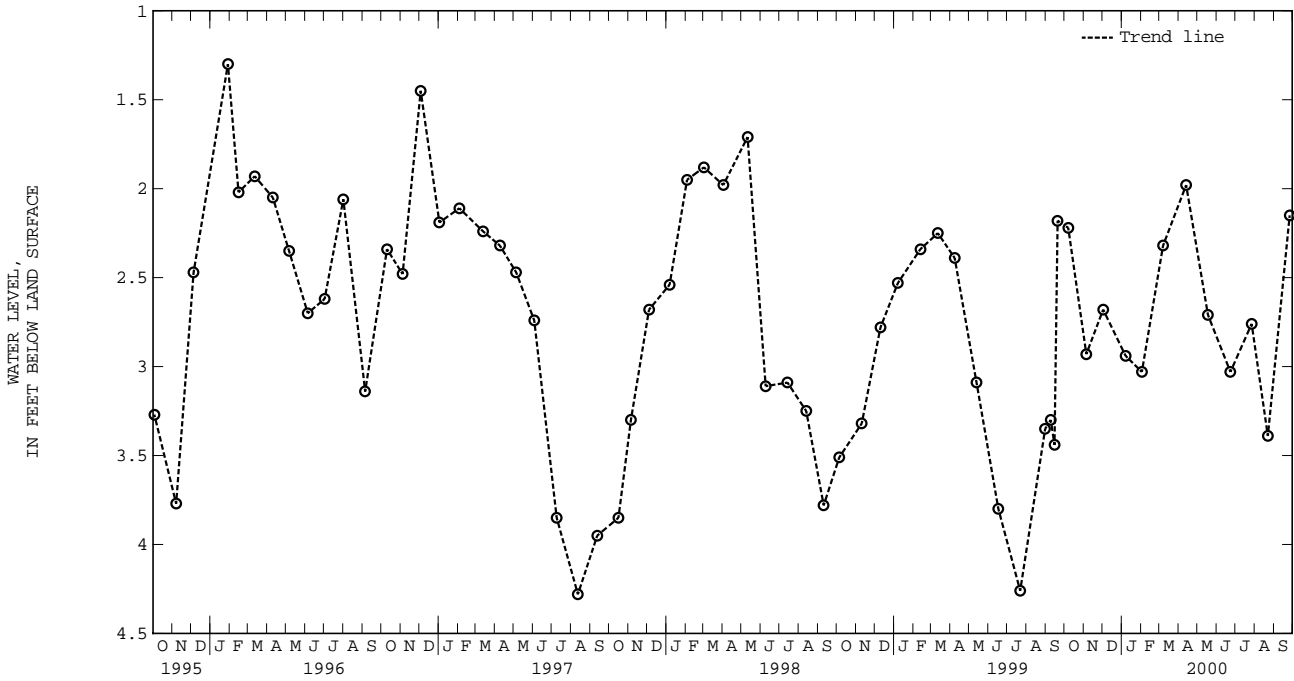
PERIOD OF RECORD.--August 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.30 ft below land surface, Jan. 29, 1996;

lowest measured, 4.28 ft below land surface, August 12, 1997.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 07, 1999	2.22	JAN 07, 2000	2.94	APR 13, 2000	1.98	JUL 27, 2000	2.76
NOV 05	2.93	FEB 02	3.03	MAY 18	2.71	AUG 22	3.39
DEC 02	2.68	MAR 07	2.32	JUN 23	3.03	SEP 26	2.15
WATER YEAR 2000 HIGHEST		1.98	APR 13, 2000 LOWEST		3.39	AUG 22, 2000	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CARROLL COUNTY--Continued

WELL NUMBER.--CL Bf 1. SITE ID.--393638076510001.

LOCATION.--Lat 39°36'38", long 76°51'00", Hydrologic Unit 02060003, on Hillcrest St., Hampstead.

Owner: Town of Hampstead.

AQUIFER.-- Prettyboy Schist of Paleozoic age. Aquifer code: 300PRTB.

WELL CHARACTERISTICS.--Drilled, unused, water-table well, depth 407 ft; casing diameter 8 in., to approximately 65 ft; open hole.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with water-level recorder from July 1, 1952, to Nov. 7, 1962.

DATUM.--Elevation of land surface is 933 ft above sea level, from topographic map.

Measuring point: Top of 2 in. casing extension, 2.35 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

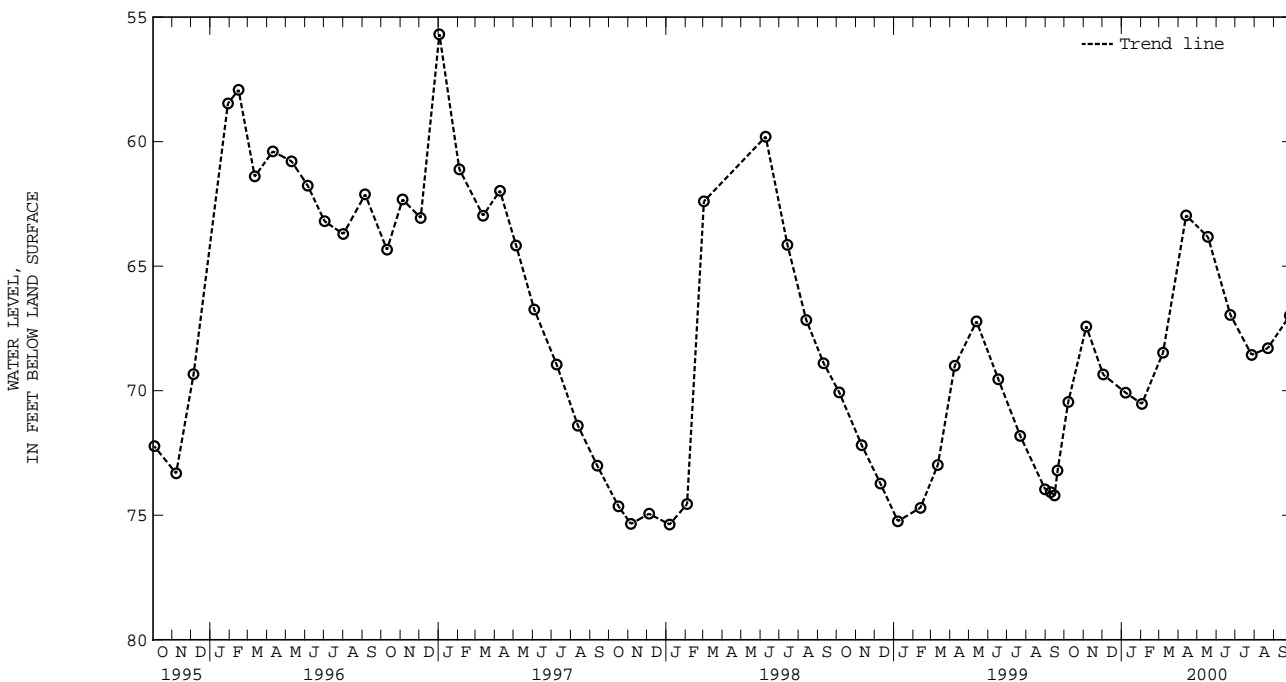
PERIOD OF RECORD.--September and December 1946, April and September 1947, February 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 49.10 ft below land surface, June 13, 1989; lowest measured, 76.76 ft below land surface, March 4, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 07, 1999	70.45	JAN 07, 2000	70.08	APR 13, 2000	62.96	JUL 27, 2000	68.56
NOV 05	67.42	FEB 02	70.53	MAY 18	63.83	AUG 22	68.29
DEC 02	69.35	MAR 07	68.47	JUN 23	66.96	SEP 26	66.99

WATER YEAR 2000 HIGHEST 62.96 APR 13, 2000 LOWEST 70.53 FEB 02, 2000



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

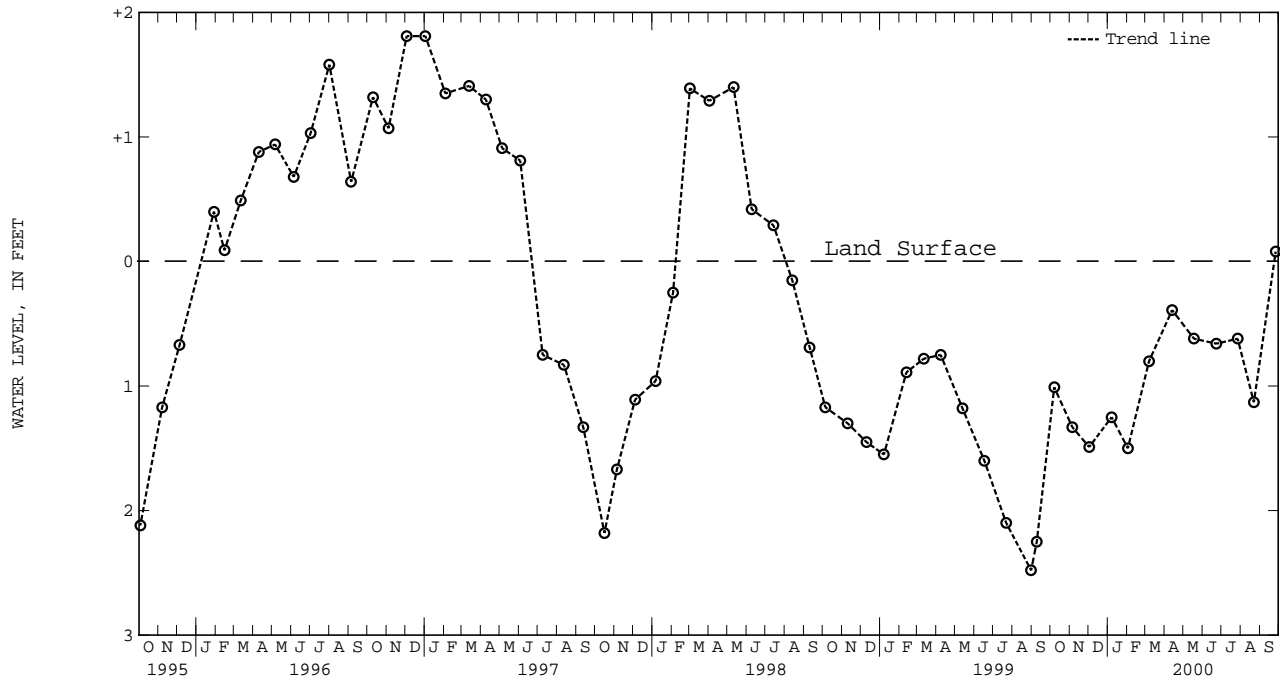
GROUND-WATER LEVELS IN MARYLAND--Continued

CARROLL COUNTY--Continued

WELL NUMBER.--CL Bf 184. SITE ID.--393754076512401. PERMIT NUMBER.--CL-73-6466.
 LOCATION.--Lat 39°37'54", long 76°51'24", Hydrologic Unit 02060003, near Utz Rd., Greenmount.
 Owner: U.S. Geological Survey.
 AQUIFER.--Prettyboy Schist of Paleozoic age. Aquifer code: 300PRTB.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 340 ft; casing diameter 6 in., to 50 ft; open hole.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 785 ft above sea level, from topographic map.
 Measuring point: Top of casing, 1.81 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well.
 PERIOD OF RECORD.--August 1985 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.81 ft above land surface, Dec. 3, 1996, and Jan. 2, 1997;
 lowest measured, 3.24 ft below land surface, Oct. 3, 1986.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
 (READINGS ABOVE LAND SURFACE INDICATED BY "+")

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 07, 1999	1.01	JAN 07, 2000	1.25	APR 13, 2000	.39	JUL 27, 2000	.62
NOV 05	1.33	FEB 02	1.50	MAY 18	.62	AUG 22	1.13
DEC 02	1.49	MAR 07	.80	JUN 23	.66	SEP 26	+0.8
WATER YEAR 2000 HIGHEST +.08		SEP 26, 2000		LOWEST 1.50		FEB 02, 2000	



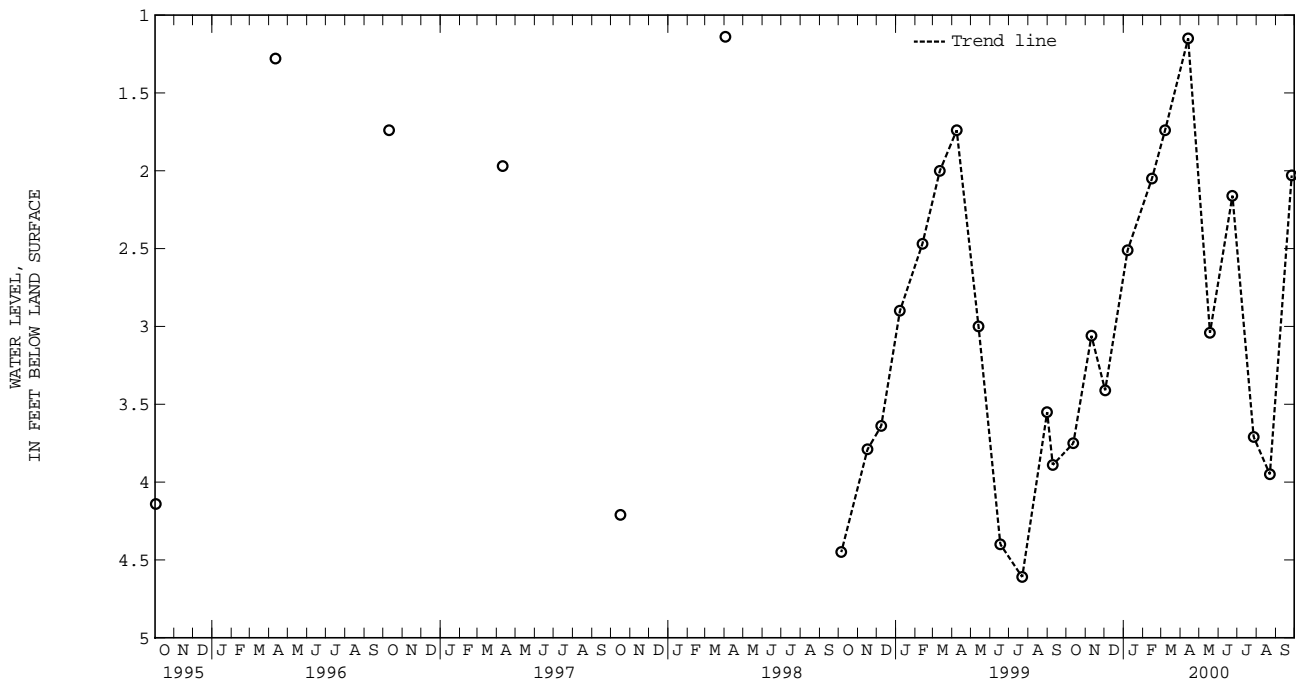
5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CARROLL COUNTY--Continued

WELL NUMBER.--CL Ec 75. SITE ID.--392259077052401. PERMIT NUMBER.--CL-73-2722.
 LOCATION.--Lat 39°22'59", long 77°05'24", Hydrologic Unit 02060003, 2.3 mi northwest of Woodbine.
 Owner: U.S. Geological Survey.
 AQUIFER.--Prettyboy Schist of Paleozoic age. Aquifer code: 300PRTB.
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 248 ft; casing diameter 6 in., to 21 ft; open hole.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Twice yearly from October 1990 to April 1998. Equipped with graphic recorder December 26, 1974 to July 19, 1980.
 DATUM.--Elevation of land surface is 550 ft above sea level, from topographic map.
 Measuring point: Top of casing, 2.31 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well.
 PERIOD OF RECORD.--March 1980 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.76 ft below land surface, April 5, 1993;
 lowest measured, 5.23 ft below land surface, Aug. 7, 1985.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 12, 1999	3.75	JAN 07, 2000	2.51	APR 13, 2000	1.15	JUL 27, 2000	3.71
NOV 10	3.06	FEB 15	2.05	MAY 18	3.04	AUG 22	3.95
DEC 02	3.41	MAR 07	1.74	JUN 23	2.16	SEP 26	2.03
WATER YEAR 2000 HIGHEST		1.15	APR 13, 2000		LOWEST		3.95
				AUG 22, 2000			

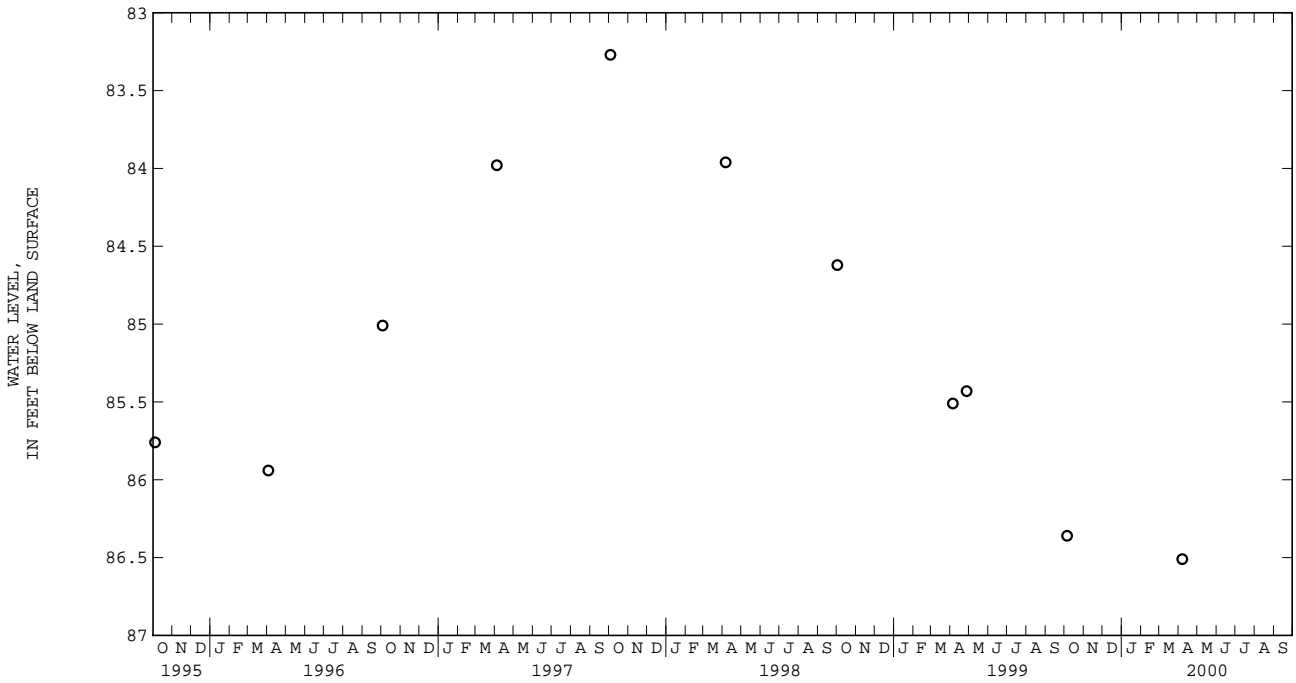


CECIL COUNTY

WELL NUMBER.--CE Be 73. SITE ID.--393637075535001. PERMIT NUMBER.--CE-81-0464.
 LOCATION.--Lat 39°36'37", long 75°53'50", Hydrologic Unit 02060002, 2 mi west of Elkton near US Rt. 40.
 Owner: U.S. Geological Survey.
 AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 152 ft; casing diameter 2 in., to 147 ft; screen diameter 2 in. from 147 to 152 ft.
 INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 162 ft above sea level, from topographic map.
 Measuring Point: Top of casing, 1.95 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Measured twice yearly since April 1988.
 PERIOD OF RECORD.--November 1982 to November 1984, April 1988 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 82.06 ft below land surface, July 31, 1984; lowest measured, 86.51 ft below land surface, April 7, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	86.36	APR 07, 2000	86.51
WATER YEAR 2000 HIGHEST 86.36		OCT 05, 1999 LOWEST 86.51	



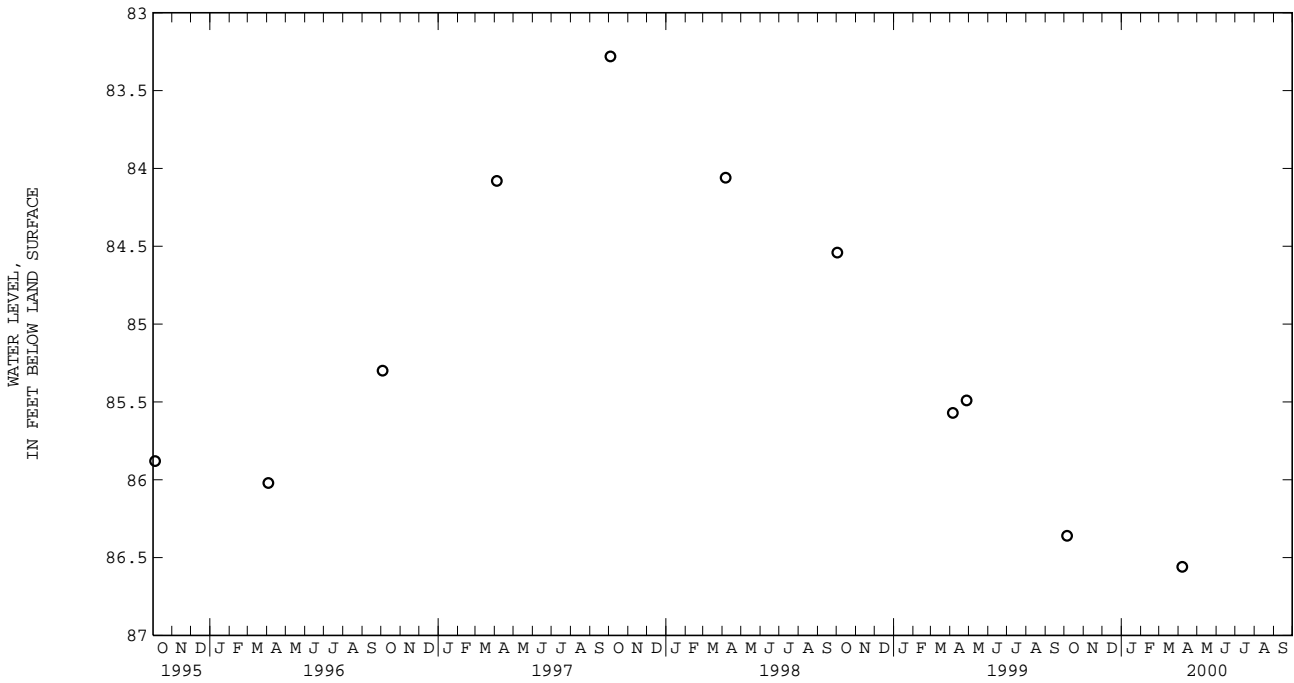
5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CECIL COUNTY--Continued

WELL NUMBER.--CE Be 74. SITE ID.--393637075535002. PERMIT NUMBER.--CE-81-0464.
 LOCATION.--Lat 39°36'37", long 75°53'50", Hydrologic Unit 02060002, 2 mi west of Elkton near US Rt. 40.
 Owner: U.S. Geological Survey.
 AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation. Aquifer code: 217PPSCL.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 115 ft; casing diameter 2 in., to 110 ft; screen diameter 2 in. from 110 to 115 ft.
 INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 162 ft above sea level, from topographic map.
 Measuring Point: Top of casing, 2.00 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Measured twice yearly since April 1988.
 PERIOD OF RECORD.--November 1982 to November 1984, April 1988 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 82.12 ft below land surface, July 31, 1984; lowest measured, 86.56 ft below land surface, April 7, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	86.36	APR 07, 2000	86.56
WATER YEAR 2000 HIGHEST 86.36		OCT 05, 1999 LOWEST 86.56	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

CECIL COUNTY--Continued

WELL NUMBER.--CE Bf 81. SITE ID.--393615075475901. PERMIT NUMBER.--CE-81-0537.

LOCATION.--Lat 39°36'15", long 75°47'59", Hydrologic Unit 02060002, at Thompson Estates Elementary School, Elkton.

Owner: U.S. Geological Survey.

AQUIFER.--Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 55.5 ft; casing diameter 4 in., to 50 ft; screen diameter 2 in. from 50 to 55 ft.

INSTRUMENTATION.--Twice yearly measurements with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 90 ft above sea level, from topographic map.

Measuring Point: Top of casing, 2.00 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.

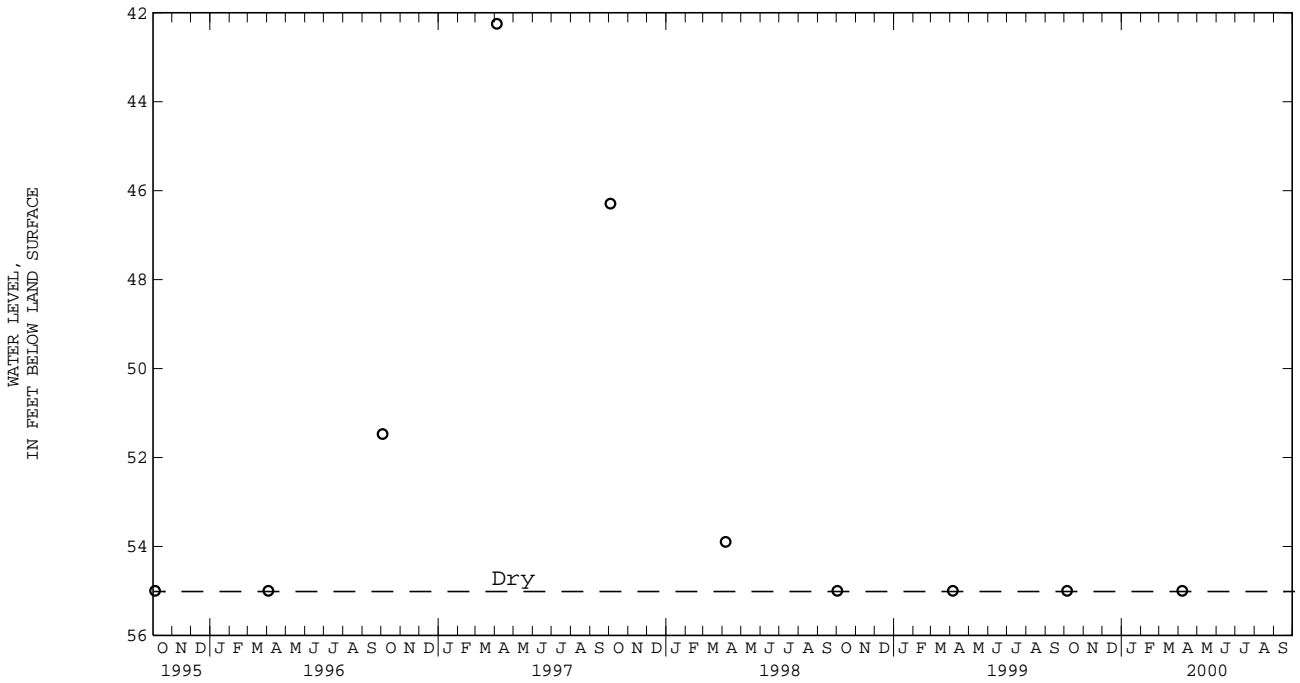
PERIOD OF RECORD.--March 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 31.26 ft below land surface, July 9, 1983;

lowest measured, dry, Nov. 6, 1985, April 8, 1986, May 12, 1986, May 10, 1988, June 21, 1988, Oct. 6, 1988, Oct. 2, 1992, Oct. 4, 1995, April 3, 1996, Oct. 2, 1998, April 5, 1999, Oct. 5, 1999, and April 7, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	DRY	APR 07, 2000	DRY



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

CECIL COUNTY--Continued

WELL NUMBER.--CE Cd 51. SITE ID.--393432075593601. PERMIT NUMBER.--CE-81-0440.

LOCATION.--Lat 39°34'32", long 75°59'36", Hydrologic Unit 02060002, near intersection of MD Rts. 7 and 267, 1 mi west of Charlestown.

Owner: U.S. Geological Survey.

AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 125 ft; casing diameter 4 in., to 120 ft; screen diameter 2 in. from 120 to 125 ft.

INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 70 ft above sea level, from topographic map.

Measuring Point: Top of casing, 3.12 ft above land surface.

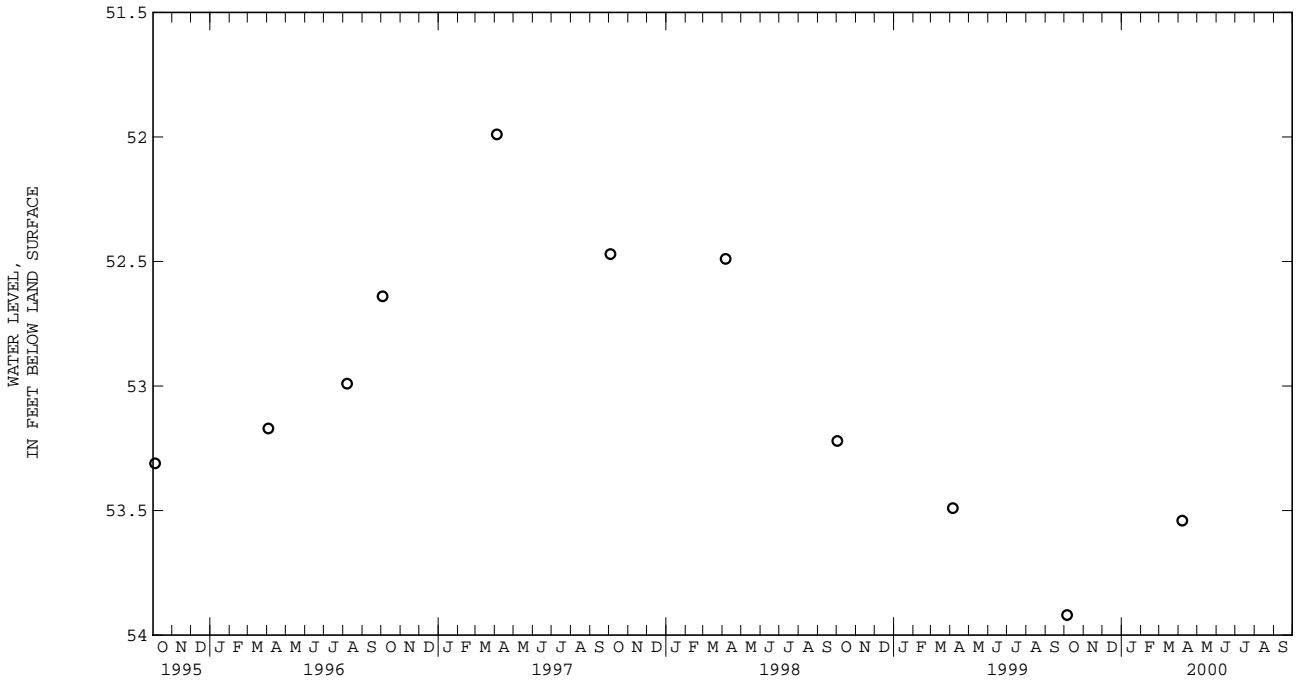
REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--November 1982 to November 1984, April 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 50.80 ft below land surface, April 6, 1984; lowest measured, 53.92 ft below land surface, Oct. 5, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	53.92	APR 07, 2000	53.54
WATER YEAR 2000 HIGHEST		53.54	APR 07, 2000
LOWEST		53.92	OCT 05, 1999



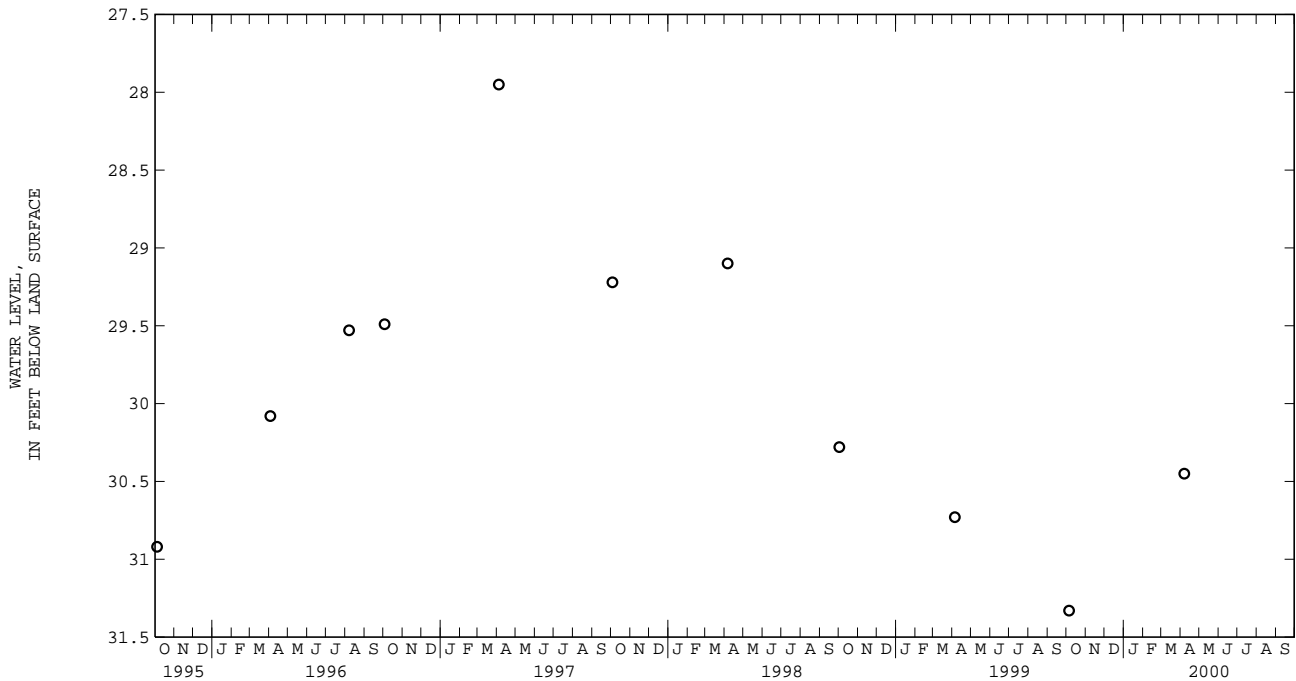
5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CECIL COUNTY--Continued

WELL NUMBER.--CE Cd 52. SITE ID.--393432075593602. PERMIT NUMBER.--CE-81-0440.
 LOCATION.--Lat 39°34'32", long 75°59'36", Hydrologic Unit 02060002, near intersection of MD Rts. 7 and 267, 1 mi west of Charlestown.
 Owner: U.S. Geological Survey.
 AQUIFER.--Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 48 ft; casing diameter 4 in., to 43 ft; screen diameter 2 in. from 43 to 48 ft.
 INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 70 ft above sea level, from topographic map.
 Measuring Point: Top of casing, 3.18 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well.
 PERIOD OF RECORD.--November 1982 to November 1984, April 1988 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.75 ft below land surface, July 5, 1983; lowest measured, 31.33 ft below land surface, Oct. 5, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	31.33	APR 07, 2000	30.45
WATER YEAR 2000 HIGHEST 30.45		APR 07, 2000 LOWEST 31.33	
		OCT 05, 1999	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

CECIL COUNTY--Continued

WELL NUMBER.--CE Cd 53. SITE ID.--393216075564201. PERMIT NUMBER.--CE-81-0463.

LOCATION.--Lat 39°32'16", long 75°56'42", Hydrologic Unit 02060002, Elk Neck State Forest, 0.5 mi north of Black Hill Lookout Tower.

Owner: U.S. Geological Survey.

AQUIFER.--Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 350 ft; casing diameter 4 in., to 345 ft; screen diameter 2 in. from 345 to 350 ft.

INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder from July 22, 1983 to Oct. 24, 1984.

DATUM.--Elevation of land surface is 135 ft above , from topographic map.

Measuring Point: Top of casing, 2.00 ft above land surface.

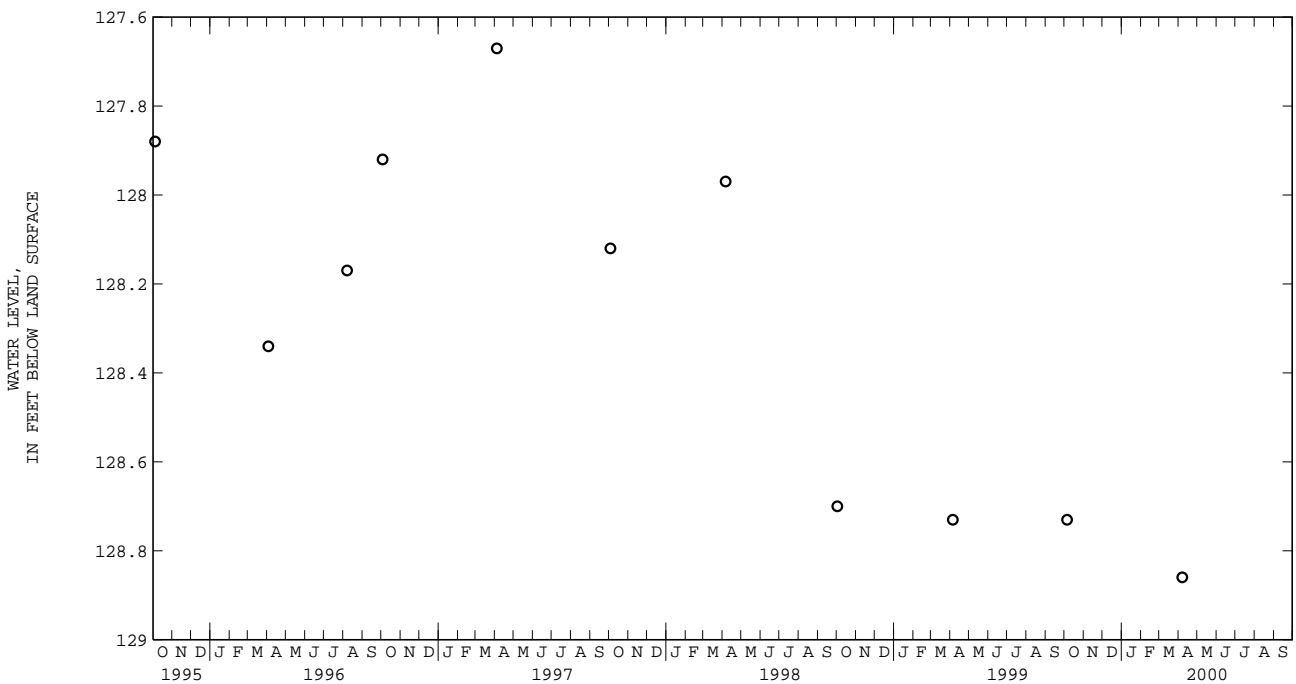
REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--March 1983 to October 1984, October 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 126.65 ft below land surface, April 6, 1984; lowest measured, 128.86 ft below land surface, April 7, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	128.73	APR 07, 2000	128.86
WATER YEAR 2000 HIGHEST 128.73 OCT 05, 1999 LOWEST 128.86 APR 07, 2000			



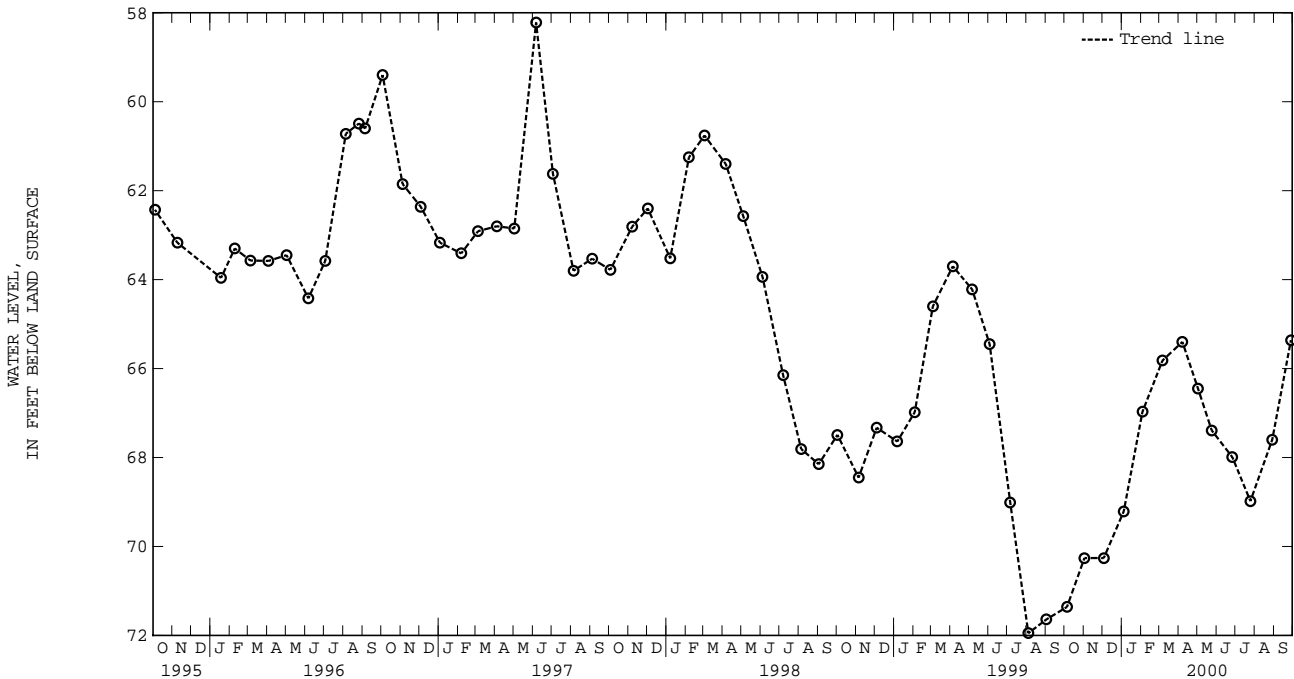
5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CECIL COUNTY--Continued

WELL NUMBER.--CE Ce 55. SITE ID.--393241075500201. PERMIT NUMBER.--CE-81-0465.
 LOCATION.--Lat 39°32'41", long 75°50'02", Hydrologic Unit 02060002, Canal National Wildlife Refuge near Elk Forest Rd.
 Owner: U.S. Geological Survey.
 AQUIFER.--Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSC.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 375 ft; casing diameter 4 in., to 370 ft;
 screen diameter 2 in. from 370 to 375 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic
 water-level recorder from July 21, 1983 to Nov. 6, 1984.
 DATUM.--Elevation of land surface is 55 ft above , from topographic map.
 Measuring point: Top of casing 2.40 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. During August 1995, a new well field located 3 miles northwest
 of this site began pumping groundwater at approximately 2.4 million gallons per day. Water levels are affected by
 local ground-water withdrawal.
 PERIOD OF RECORD.--March 1983 to November 1984, July 1985 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 50.56 ft below land surface, April 17, 1984;
 lowest measured, 71.95 ft below land surface, Aug. 4, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	71.36	FEB 03, 2000	66.97	MAY 24, 2000	67.39	SEP 28, 2000	65.36
NOV 02	70.26	MAR 06	65.82	JUN 26	67.99		
DEC 03	70.26	APR 07	65.40	JUL 25	68.98		
JAN 04, 2000	69.21	MAY 02	66.45	AUG 29	67.60		
WATER YEAR 2000 HIGHEST 65.36		SEP 28, 2000		LOWEST 71.36		OCT 05, 1999	



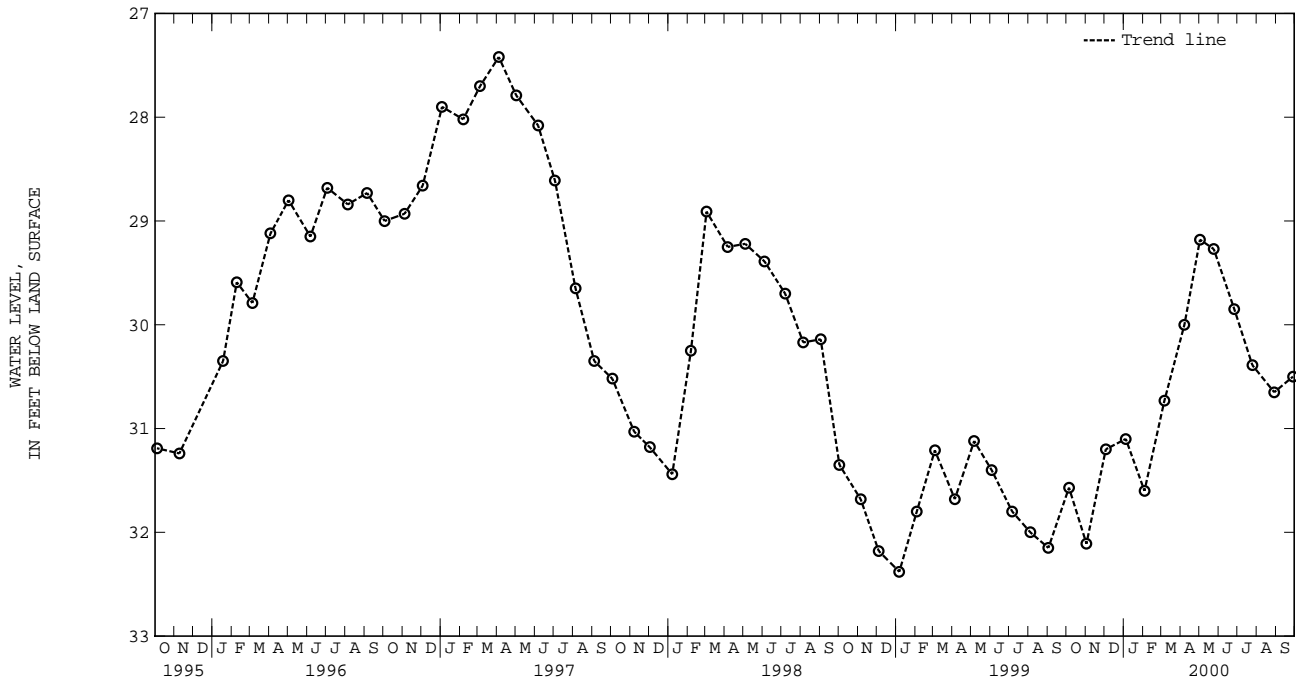
5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CECIL COUNTY--Continued

WELL NUMBER.--CE Ce 56. SITE ID.--393026075523101. PERMIT NUMBER.--CE-81-0466.
 LOCATION.--Lat 39°30'26", long 75°52'31", Hydrologic Unit 02060002, 1.2 mi east of Courthouse Point.
 Owner: U.S. Geological Survey.
 AQUIFER.--Upper Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 121 ft; casing diameter 4 in., to 116 ft; screen diameter 2 in. from 116 to 121 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Measured twice yearly from April 1988 to April 1994.
 DATUM.--Elevation of land surface is 38 ft above sea level, from topographic map.
 Measuring Point: Top of casing, 2.00 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.
 PERIOD OF RECORD.--April 1983 to September 1984, April 1988 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.42 ft below land surface, April 4, 1997;
 lowest measured, 34.48 ft below land surface, Nov. 19, 1983.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	31.57	FEB 03, 2000	31.60	MAY 24, 2000	29.27	SEP 28, 2000	30.50
NOV 02	32.11	MAR 06	30.73	JUN 26	29.85		
DEC 03	31.20	APR 07	30.00	JUL 25	30.39		
JAN 04, 2000	31.10	MAY 02	29.18	AUG 29	30.65		
WATER YEAR 2000 HIGHEST		29.18	MAY 02, 2000 LOWEST		32.11	NOV 02, 1999	



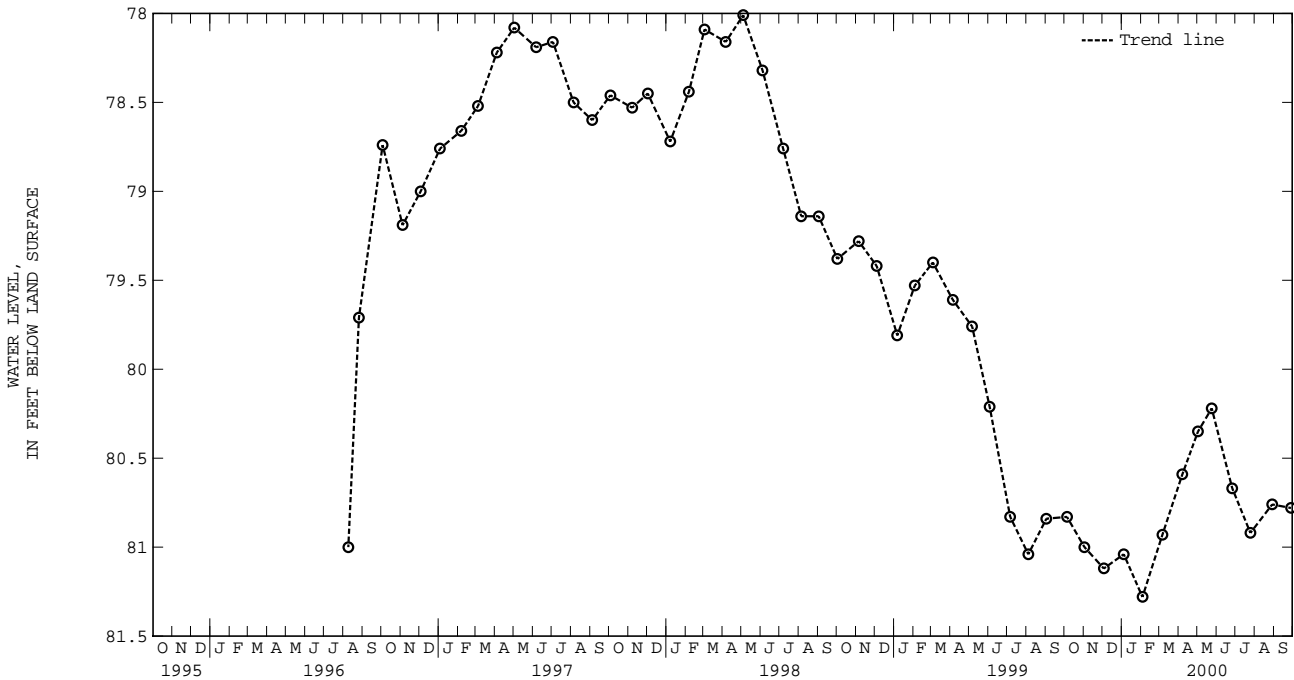
GROUND-WATER LEVELS IN MARYLAND--Continued

CECIL COUNTY--Continued

WELL NUMBER.--CE Ce 82. SITE ID.--393209075541301. PERMIT NUMBER.--CE-94-1417.
 LOCATION.--Lat 39°32'09", long 75°54'13", Hydrologic Unit 02060002, 4.0 mi southeast of North East, at Village of Elk Neck, 0.1 mi north of Racine-School Rd.
 Owner: Stuart Associates.
 AQUIFER.--Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 210 ft; casing diameter 4 in., to 205 ft; screen diameter 4 in. from 205 to 210 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 120 ft above sea level, from topographic map.
 Measuring Point: Top of casing, 1.00 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.
 PERIOD OF RECORD.--August 1996 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 76.76 ft below land surface, July 7, 1998;
 lowest measured, 81.28 ft below land surface, Feb. 3, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	80.83	FEB 03, 2000	81.28	MAY 24, 2000	80.22	SEP 28, 2000	80.78
NOV 02	81.00	MAR 06	80.93	JUN 26	80.67		
DEC 03	81.12	APR 07	80.59	JUL 25	80.92		
JAN 04, 2000	81.04	MAY 02	80.35	AUG 29	80.76		
WATER YEAR 2000 HIGHEST 80.22		MAY 24, 2000		LOWEST 81.28		FEB 03, 2000	



CECIL COUNTY--Continued

WELL NUMBER.--CE Dd 81. SITE ID.--392536075593201. PERMIT NUMBER.--CE-81-0469.

LOCATION.--Lat 39°25'36", long 75°59'32", Hydrologic Unit 02060002, at dredge spoil site, off Pond Neck Road, near West View Shores.

Owner: U.S. Geological Survey.

AQUIFER.--Upper Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 115 ft; casing diameter 4 in., to 110 ft; screen diameter 2 in. from 110 to 115 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Measured twice yearly from April 1988 to April 1994.

DATUM.--Elevation of land surface is 24 ft above sea level, from topographic map.

Measuring Point: Top of casing, 1.80 ft above land surface.

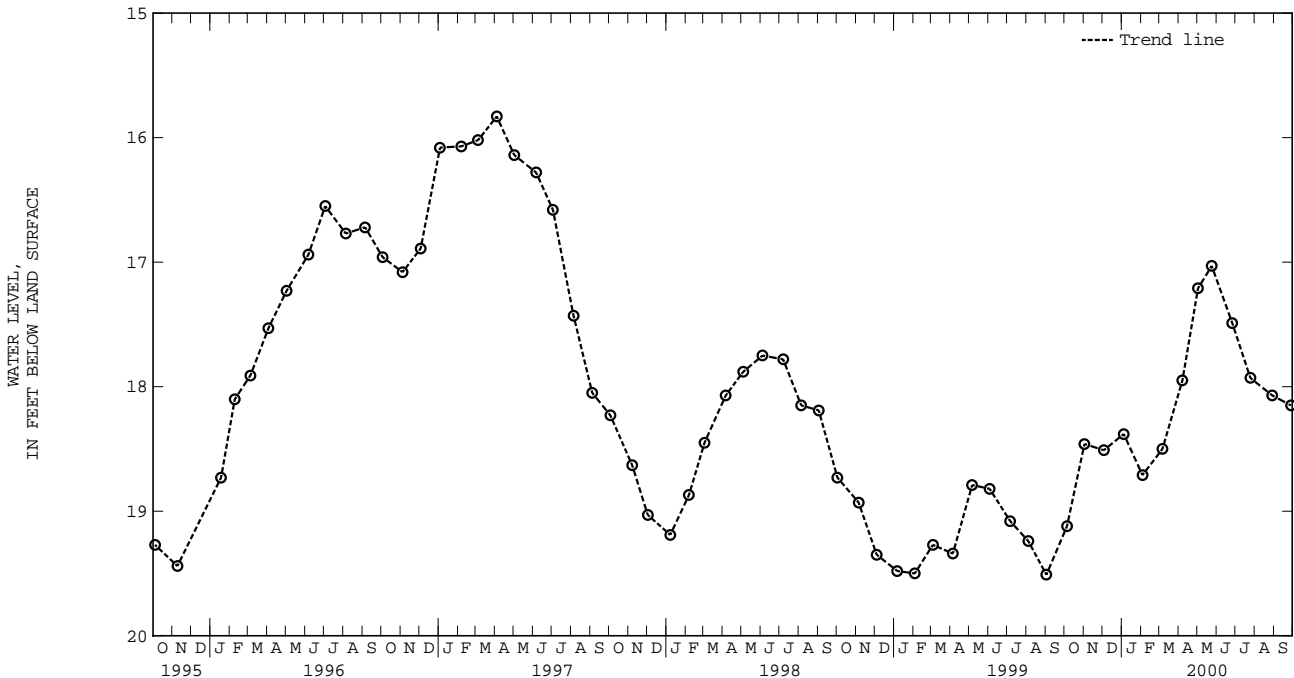
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--March 1983 to October 1983, April 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.25 ft below land surface, July 1, 1983; lowest measured, 19.61 ft below land surface, Oct. 2, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	19.12	FEB 03, 2000	18.71	MAY 24, 2000	17.03	SEP 28, 2000	18.15
NOV 02	18.46	MAR 06	18.50	JUN 26	17.49		
DEC 03	18.51	APR 07	17.95	JUL 25	17.93		
JAN 04, 2000	18.38	MAY 02	17.21	AUG 29	18.07		
WATER YEAR 2000 HIGHEST		17.03	MAY 24, 2000 LOWEST		19.12	OCT 05, 1999	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

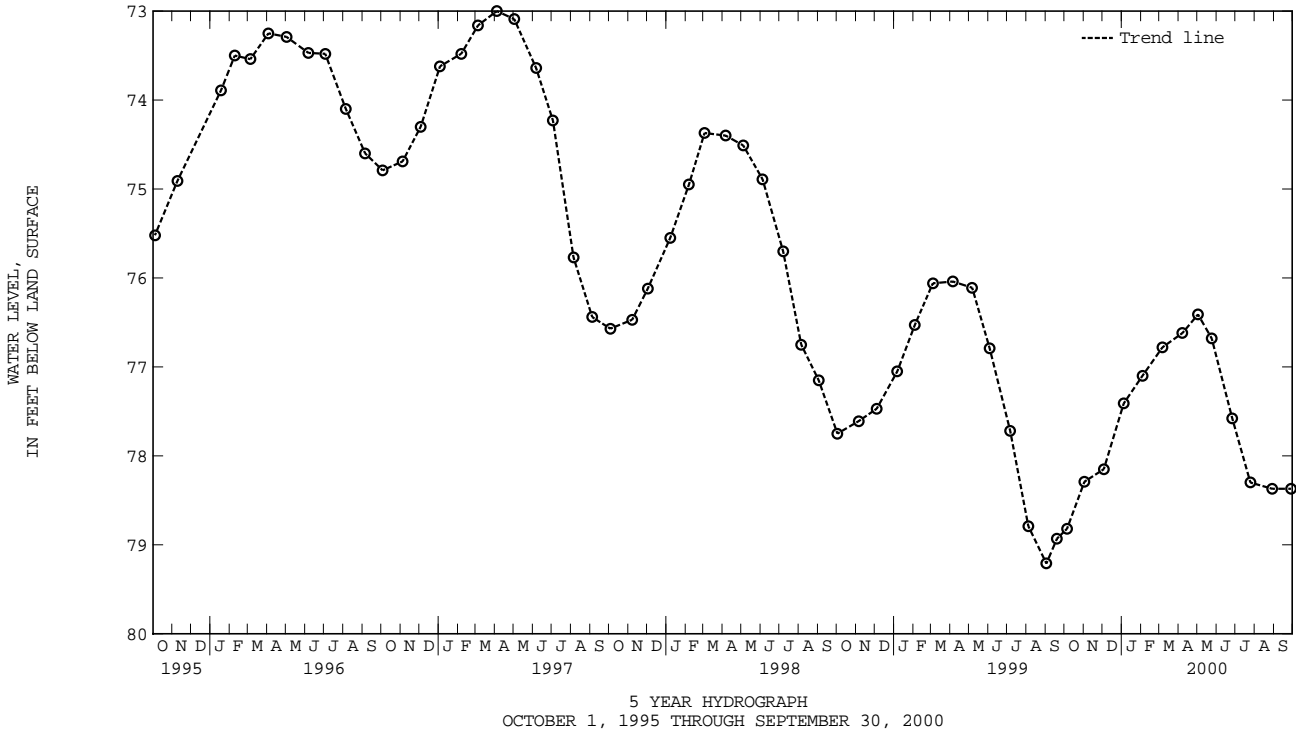
GROUND-WATER LEVELS IN MARYLAND--Continued

CECIL COUNTY--Continued

WELL NUMBER.--CE Ee 29. SITE ID.--392403075521801. PERMIT NUMBER.--CE-73-2266.
 LOCATION.--Lat 39°24'03", long 75°52'18", Hydrologic Unit 02060002, 0.3 mi southwest of MD Rts. 213 and 282, Cecilton.
 Owner: U.S. Geological Survey.
 AQUIFER.--Upper Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 547 ft; casing diameter 10 in., to 158 ft; casing diameter 4 in., to 515 ft and 525 to 547 ft; screen diameter 4 in. from 515 to 525 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with a digital water-level recorder from Aug. 22, 1979 to Dec. 4, 1979.
 DATUM.--Elevation of land surface is 75 ft above sea level, from topographic map.
 Measuring point: Top of casing, 2.35 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal.
 PERIOD OF RECORD.--August 1978 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 67.99 ft below land surface, March 25, 1979;
 lowest measured, 79.21 ft below land surface, Sept. 2, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	78.82	FEB 03, 2000	77.10	MAY 24, 2000	76.68	SEP 28, 2000	78.37
NOV 02	78.29	MAR 06	76.78	JUN 26	77.58		
DEC 03	78.15	APR 07	76.62	JUL 25	78.30		
JAN 04, 2000	77.41	MAY 02	76.41	AUG 29	78.37		
WATER YEAR 2000 HIGHEST		76.41	MAY 02, 2000 LOWEST		78.82	OCT 05, 1999	



CHARLES COUNTY

WELL NUMBER.--CH Bb 17. SITE ID.--383524077111802.

LOCATION.--Lat 38°35'24", long 77°11'18", Hydrologic Unit 02070011, at Farnum Rd.; U.S. Naval Ordnance Station, Indian Head.
Owner: U.S. Navy.

AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 294 ft; casing diameter 16 in., to 230 ft; casing diameter 10 in. to 240 ft; screen diameter 10 in. from 240 to 294 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval, May 29, 1988 to Nov. 20, 1997. Equipped with digital water-level recorder--30-minute recorder interval, Nov. 20, 1997 to June 20, 2000.

DATUM.--Altitude of land surface is 52 ft above sea level.

Measuring Point: Top of recorder shelf, 3.0 ft above land surface.

REMARKS.--Indian Head Project observation well. Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--May 1988 to June 20, 2000.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 53.58 ft below sea level, March 9, 1998;
lowest measured, 69.22 ft below sea level, Dec. 22, 1989.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-59.23	-59.69	-58.50	-59.05	-59.30	-59.69	-58.31	-58.87	-57.31	-57.89	-56.44	-57.05
2	-59.24	-59.83	-58.24	-58.92	-58.64	-59.30	-58.21	-58.68	-57.81	-58.28	-56.30	-57.02
3	-59.41	-60.06	-58.32	-59.47	-58.28	-58.85	-58.37	-58.80	-57.49	-58.20	-56.91	-57.25
4	-59.58	-60.07	-59.13	-59.65	-58.43	-58.88	-58.28	-58.82	-57.20	-57.82	-56.51	-57.11
5	-59.76	-60.38	-59.45	-59.91	-58.52	-58.99	-58.64	-59.36	-57.14	-57.58	-56.49	-56.91
6	-59.46	-60.22	-59.45	-59.89	-58.43	-58.98	-58.62	-59.27	-57.28	-57.84	-56.46	-56.96
7	-59.46	-60.08	-59.61	-60.09	-58.81	-59.42	-58.60	-59.00	-57.48	-57.86	-56.49	-56.94
8	-59.49	-60.10	-59.02	-59.73	-58.65	-59.18	-58.47	-59.02	-57.54	-58.03	-56.41	-56.92
9	-59.47	-60.04	-58.69	-59.34	-58.68	-59.18	-58.40	-58.85	-57.42	-57.90	-56.35	-56.92
10	-59.21	-59.89	-58.89	-59.32	-58.50	-59.07	-58.07	-58.80	-57.44	-57.86	-56.40	-57.12
11	-59.05	-59.57	-58.91	-59.50	-58.74	-59.56	-58.01	-58.67	-57.21	-57.82	-56.87	-57.43
12	-58.87	-59.60	-58.43	-59.23	-59.08	-59.48	-58.24	-58.65	-57.08	-57.54	-56.75	-57.64
13	-58.82	-59.28	-58.46	-58.90	-58.46	-59.44	-58.07	-59.05	-56.90	-57.45	-57.23	-57.72
14	-58.86	-60.09	-58.56	-58.94	-58.10	-58.67	-59.05	-59.57	-56.69	-57.24	-56.85	-57.34
15	-59.20	-59.82	-58.71	-59.52	-58.02	-58.60	-58.43	-59.24	-57.14	-57.74	-56.59	-57.20
16	-59.06	-59.61	-59.06	-59.64	-57.99	-58.70	-57.90	-58.50	-56.86	-57.60	-56.80	-57.37
17	-59.04	-59.49	-59.31	-59.67	-58.46	-59.05	-58.47	-59.01	-57.11	-57.59	-57.04	-58.42
18	-59.01	-59.82	-58.83	-59.33	-58.78	-59.26	-57.97	-58.88	-56.52	-57.45	-57.97	-58.51
19	-59.22	-59.52	-58.82	-59.29	-58.67	-59.27	-57.41	-58.24	-56.50	-56.96	-57.69	-58.28
20	-59.13	-59.72	-58.82	-59.32	-58.23	-59.00	-57.06	-57.80	-56.47	-57.08	-57.24	-58.09
21	-59.35	-59.84	-58.72	-59.29	-58.25	-58.80	-57.69	-58.16	-56.33	-56.90	-56.87	-57.62
22	-59.04	-59.65	-58.73	-59.32	-58.51	-59.00	-57.20	-58.10	-56.42	-56.88	-57.08	-57.64
23	-59.04	-59.63	-58.79	-59.42	-58.43	-59.06	-57.20	-57.68	-56.49	-56.91	-56.85	-57.47
24	-59.08	-59.61	-58.87	-59.46	-58.47	-59.03	-57.21	-57.80	-56.46	-56.91	-56.85	-57.34
25	-58.73	-59.65	-58.86	-59.49	-58.47	-59.03	-57.23	-57.83	-56.49	-57.03	-56.86	-57.34
26	-58.62	-59.22	-58.48	-59.41	-58.21	-58.82	-57.19	-58.03	-56.63	-57.21	-56.85	-57.42
27	-58.84	-59.45	-58.60	-59.20	-58.23	-58.87	-57.19	-58.23	-56.33	-56.72	-56.59	-57.26
28	-58.30	-59.23	-58.78	-59.27	-58.23	-58.85	-57.99	-58.44	-56.46	-57.10	-56.51	-56.96
29	-58.33	-58.88	-58.84	-59.40	-58.21	-58.76	-57.78	-58.11	-56.88	-57.22	-56.80	-57.22
30	-58.42	-59.10	-59.14	-59.78	-58.27	-58.70	-57.23	-57.82	---	---	-56.83	-57.20
31	-58.62	-59.08	---	---	-58.60	-59.04	-57.09	-57.48	---	---	-56.91	-57.24
MONTH	-58.30	-60.38	-58.24	-60.09	-57.99	-59.69	-57.06	-59.57	-56.33	-58.28	-56.30	-58.51

GROUND-WATER LEVELS IN MARYLAND--Continued

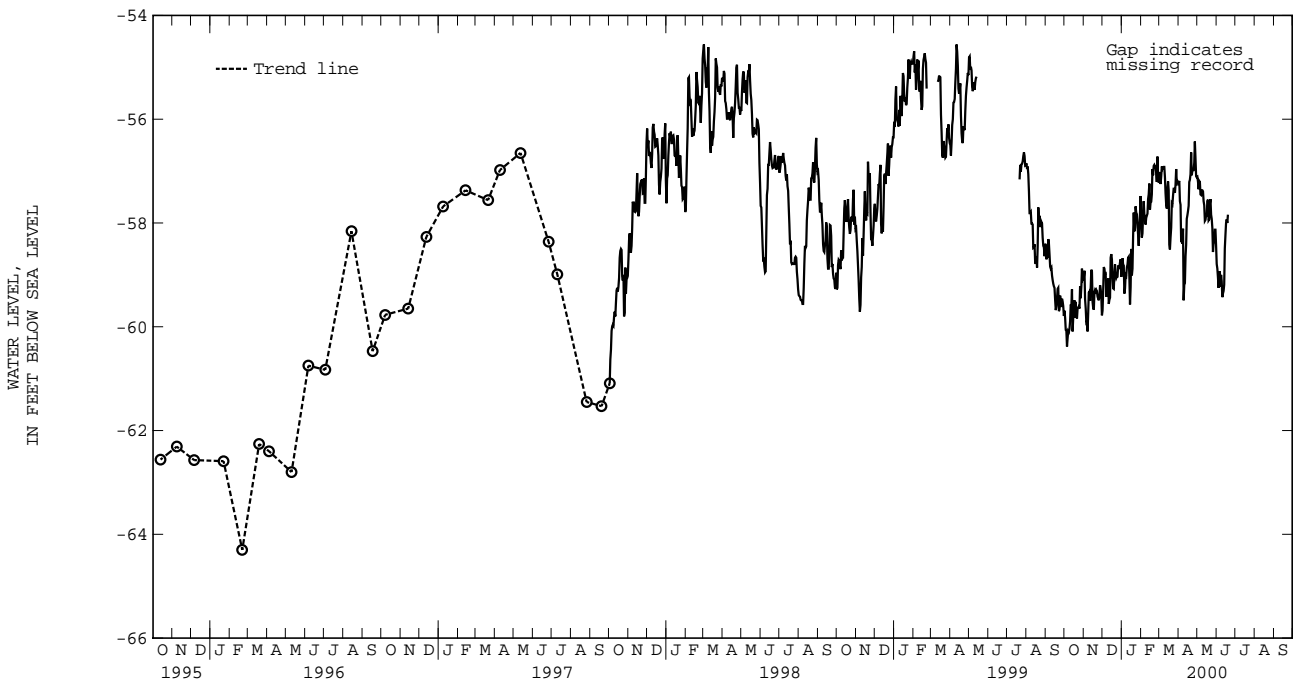
CHARLES COUNTY--Continued

CH Bb 17--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	-56.77	-57.22	-56.47	-57.11	-58.00	-58.79	---	---	---	---	---	---
2	-56.76	-57.19	-56.40	-57.21	-58.25	-58.88	---	---	---	---	---	---
3	-56.91	-57.58	-56.80	-57.35	-58.49	-59.05	---	---	---	---	---	---
4	-57.11	-57.65	-56.65	-57.19	-58.71	-59.25	---	---	---	---	---	---
5	-57.52	-58.37	-56.62	-57.21	-58.51	-59.05	---	---	---	---	---	---
6	-57.79	-58.34	-56.86	-57.45	-58.33	-58.93	---	---	---	---	---	---
7	-57.71	-58.40	-56.89	-57.46	-58.61	-59.23	---	---	---	---	---	---
8	-57.59	-58.11	-56.82	-57.37	-58.38	-59.00	---	---	---	---	---	---
9	-58.05	-59.49	-56.87	-57.37	-58.62	-59.12	---	---	---	---	---	---
10	-58.69	-59.19	-56.86	-57.39	-58.76	-59.43	---	---	---	---	---	---
11	-58.53	-59.16	-57.19	-57.58	-58.94	-59.36	---	---	---	---	---	---
12	-58.22	-58.64	-57.01	-57.66	-58.83	-59.31	---	---	---	---	---	---
13	-57.77	-58.42	-57.32	-57.96	-58.27	-59.19	---	---	---	---	---	---
14	-57.39	-57.92	-57.36	-57.94	-57.81	-58.49	---	---	---	---	---	---
15	-57.34	-57.85	-57.21	-57.85	-57.69	-58.23	---	---	---	---	---	---
16	-57.23	-57.77	-57.24	-57.85	-57.43	-58.00	---	---	---	---	---	---
17	-56.90	-57.67	-56.85	-57.58	-57.43	-57.93	---	---	---	---	---	---
18	-56.62	-57.21	-56.92	-57.55	-57.50	-58.00	---	---	---	---	---	---
19	-56.73	-57.17	-57.33	-57.95	-57.39	-57.84	---	---	---	---	---	---
20	-56.33	-57.06	-57.17	-57.93	---	---	---	---	---	---	---	---
21	-56.15	-56.64	-57.06	-57.63	---	---	---	---	---	---	---	---
22	-56.29	-57.08	-57.00	-57.54	---	---	---	---	---	---	---	---
23	-56.49	-56.99	-57.41	-57.84	---	---	---	---	---	---	---	---
24	-56.54	-56.98	-57.37	-57.92	---	---	---	---	---	---	---	---
25	-56.53	-56.98	-57.61	-58.10	---	---	---	---	---	---	---	---
26	-56.21	-56.84	-57.89	-58.56	---	---	---	---	---	---	---	---
27	-56.01	-56.43	-58.02	-58.39	---	---	---	---	---	---	---	---
28	-56.16	-56.76	-57.93	-58.37	---	---	---	---	---	---	---	---
29	-56.56	-57.10	-57.58	-58.13	---	---	---	---	---	---	---	---
30	-56.62	-57.12	-57.51	-58.13	---	---	---	---	---	---	---	---
31	---	---	-57.68	-58.44	---	---	---	---	---	---	---	---
MONTH	-56.01	-59.49	-56.40	-58.56	-57.39	-59.43	---	---	---	---	---	---
YEAR	-56.01	-60.38										

Daily Low Water Levels



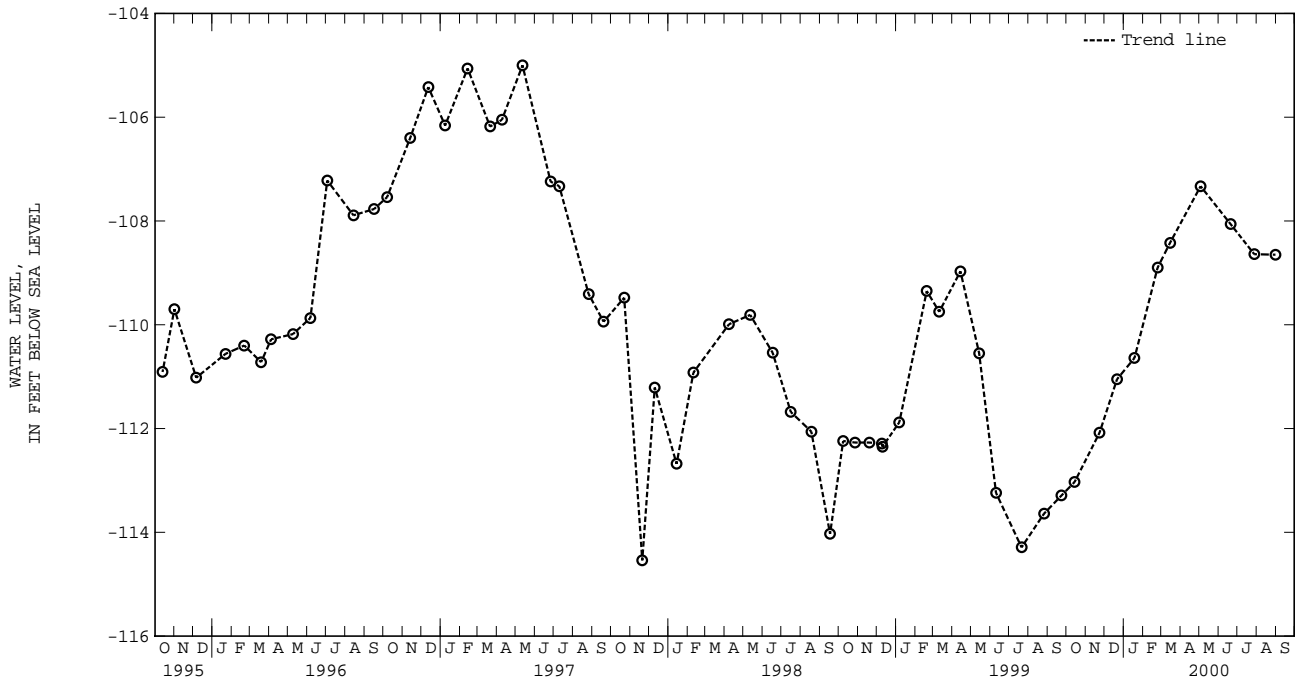
5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CHARLES COUNTY--Continued

WELL NUMBER.--CH Bc 24. SITE ID.--383633077083001. PERMIT NUMBER.--CH-02-0874.
 LOCATION.--Lat 38°36'33", long 77°08'30", Hydrologic Unit 0207001, at Cedar Lane, Potomac Heights.
 Owner: Potomac Heights Mutual Home Owners Association.
 AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 435 ft; casing diameter 10 in., to 383.5 ft; and 398.5 to 415 ft; screen diameter 10 in. from 383.5 to 398.5 ft and 415 to 435 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval, April 30, 1988 to Nov. 20, 1997. Equipped with digital water-level recorder--30-minute recorder interval, Nov. 20, 1997 to June 20, 2000.
 DATUM.--Elevation of land surface is 72 ft above sea level.
 Measuring Point: Top of recorder shelf, 1.55 ft above land surface.
 REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by local ground-water withdrawal.
 PERIOD OF RECORD.--May 1988 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 70.26 ft below sea level, April 30, 1988;
 lowest measured, 114.86 ft below sea level, November 20, 1997.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14, 1999	113.03	JAN 18, 2000	110.64	MAY 03, 2000	107.33	AUG 31, 2000	108.65
NOV 23	112.08	FEB 24	108.90	JUN 20	108.06		
DEC 21	111.05	MAR 15	108.42	JUL 28	108.64		
WATER YEAR 2000 HIGHEST 113.03		OCT 14, 1999		LOWEST 107.33		MAY 03, 2000	



GROUND-WATER LEVELS IN MARYLAND--Continued

CHARLES COUNTY--Continued

WELL NUMBER.--CH Bc 77. SITE ID.--383644077055501. PERMIT NUMBER.--CH-88-1028.

LOCATION.--Lat 38°36'44", long 77°05'55", Hydrologic Unit 02070011, 2.75 mi southwest of intersection with MD Rts 210 and 227, 0.25 mi south of MD 210.

Owner: The Arden Group.

AQUIFER.--Upper Patuxent aquifer of the Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 955 ft; casing diameter 16 in., to 60 ft; casing diameter 8 in. from 0 to 845 ft; and casing diameter 6 in., from 845 to 925 ft; screen diameter 6 in. from 925 to 955 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval, August 28, 1995 to current year.

DATUM.--Elevation of land surface is 96.64 ft above sea level.

Measuring Point: Top of recorder shelf, 3.38 ft above land surface.

REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by local ground-water withdrawal.

Missing data due to recorder malfunction. A 48-hour pump test occurred in a nearby well on Nov. 22, and 23, 1996.

The lowest water measured during this period was 15.54 ft below sea level

PERIOD OF RECORD.--August 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.76 ft above sea level, Aug. 29, 1995; lowest measured, 19.90 ft below sea level, June 23, 2000.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	-13.05	-13.12	---	---	---	---	-13.34	-13.36	---	---	---	---
2	-13.05	-13.06	---	---	-13.38	-13.38	-13.31	-13.36	---	---	---	---
3	-13.06	-13.07	---	---	-13.34	-13.38	---	---	---	---	---	---
4	-13.05	-13.06	---	---	-13.29	-13.34	---	---	---	---	---	---
5	---	---	---	---	-13.30	-13.32	---	---	---	---	---	---
6	---	---	---	---	-13.26	-13.30	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	-13.14	-13.20	-13.38	-13.42	---	---	-13.39	-13.42	---	---	-13.38	-13.75
10	---	---	---	---	---	---	-13.27	-13.39	-13.25	-13.32	-13.75	-14.48
11	---	---	---	---	-13.28	-13.31	---	---	---	---	---	---
12	-13.20	-13.22	---	---	---	---	---	---	---	---	---	---
13	-13.22	-13.29	-13.35	-13.38	---	---	---	---	---	---	---	---
14	-13.24	-13.35	-13.24	-13.35	-13.25	-13.32	---	---	---	---	---	---
15	---	---	-13.25	-13.30	-13.26	-13.29	---	---	---	---	---	---
16	---	---	-13.30	-13.34	-13.26	-13.28	-13.39	-13.65	---	---	-14.91	-15.08
17	---	---	-13.34	-13.42	-13.26	-13.28	-13.42	-13.65	---	---	-14.88	-15.02
18	---	---	-13.42	-13.44	---	---	-13.51	-13.65	---	---	---	---
19	-13.29	-13.30	-13.42	-13.44	---	---	-13.39	-13.51	---	---	---	---
20	---	---	-13.38	-13.42	---	---	-13.31	-13.39	-13.28	-13.37	---	---
21	---	---	-13.34	-13.38	---	---	-13.35	-13.38	---	---	---	---
22	---	---	-13.33	-13.35	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	-15.22	-15.77
24	-13.19	-13.24	---	---	---	---	-13.40	-13.41	---	---	-15.77	-16.45
25	---	---	---	---	---	---	-13.28	-13.40	---	---	---	---
26	---	---	---	---	-13.16	-13.33	-13.28	-13.35	---	---	---	---
27	---	---	-13.20	-13.22	-13.19	-13.21	-13.35	-13.57	---	---	---	---
28	---	---	-13.22	-13.31	-13.18	-13.21	---	---	---	---	---	---
29	---	---	-13.31	-13.35	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	-13.32	-13.64	---	---	---	---
31	---	---	---	---	---	---	-13.27	-13.32	---	---	---	---
MONTH	-13.05	-13.35	-13.20	-13.44	-13.16	-13.38	-13.27	-13.65	-13.25	-13.37	-13.38	-16.45

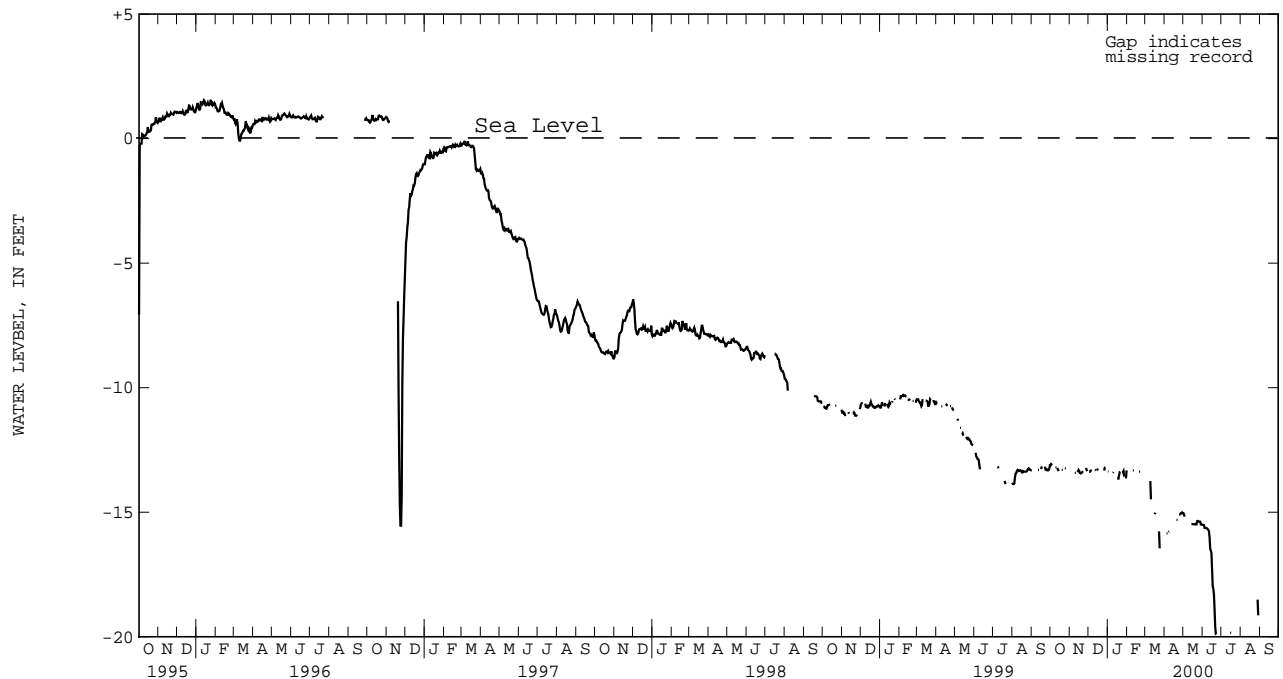
CHARLES COUNTY--Continued

CH Bc 77--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	-15.01	-15.04	-15.50	-15.51	---	---	---	---	---	---
2	---	---	-15.01	-15.08	-15.51	-15.51	---	---	---	---	---	---
3	---	---	-15.08	-15.18	-15.51	-15.52	---	---	---	---	---	---
4	-15.76	-15.85	---	---	-15.52	-15.63	---	---	---	---	---	---
5	---	---	---	---	-15.63	-15.63	---	---	---	---	---	---
6	---	---	---	---	-15.51	-15.63	---	---	---	---	---	---
7	-15.75	-15.79	---	---	-15.63	-15.65	---	---	---	---	---	---
8	-15.60	-15.77	---	---	-15.65	-15.65	---	---	---	---	---	---
9	---	---	---	---	-15.65	-15.67	---	---	---	---	---	---
10	---	---	---	---	-15.67	-15.72	---	---	---	---	---	---
11	---	---	---	---	-15.72	-15.76	---	---	---	---	---	---
12	---	---	---	---	-15.76	-16.01	---	---	---	---	---	---
13	---	---	---	---	-16.01	-16.47	---	---	---	---	---	---
14	---	---	-15.45	-15.46	-16.47	-16.54	---	---	---	---	---	---
15	---	---	-15.45	-15.47	-16.54	-16.63	-19.83	-19.84	---	---	---	---
16	---	---	-15.46	-15.48	-16.63	-17.30	---	---	---	---	---	---
17	---	---	-15.48	-15.48	-17.30	-17.97	---	---	---	---	---	---
18	---	---	-15.47	-15.48	-17.97	-18.08	---	---	---	---	---	---
19	---	---	-15.47	-15.48	-18.08	-18.29	---	---	---	---	---	---
20	-15.19	-15.31	-15.48	-15.49	-18.29	-18.90	---	---	---	---	---	---
21	---	---	-15.49	-15.49	-18.90	-19.58	---	---	---	---	---	---
22	---	---	-15.35	-15.49	-19.58	-19.89	---	---	---	---	---	---
23	---	---	-15.35	-15.36	-19.89	-19.90	---	---	---	---	---	---
24	-15.04	-15.09	-15.31	-15.35	---	---	---	---	---	---	---	---
25	-15.08	-15.09	-15.31	-15.37	---	---	---	---	---	---	---	---
26	-15.04	-15.08	-15.37	-15.37	---	---	---	---	---	---	---	---
27	-15.04	-15.04	-15.37	-15.38	---	---	---	---	---	---	---	---
28	-14.97	-15.04	-15.38	-15.38	---	---	---	---	-17.81	-18.51	---	---
29	-14.97	-15.01	-15.37	-15.49	---	---	---	---	-18.51	-19.14	---	---
30	-15.01	-15.04	-15.49	-15.50	---	---	---	---	---	---	---	---
31	---	---	-15.50	-15.50	---	---	---	---	---	---	---	---
MONTH	-14.97	-15.85	-15.01	-15.50	-15.50	-19.90	-19.83	-19.84	-17.81	-19.14	---	---
YEAR	-13.05	-19.90										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CHARLES COUNTY--Continued

WELL NUMBER.--CH Bc 80. SITE ID.--383645077062402. PERMIT NUMBER.--CH-94-0898.

LOCATION.--Lat 38°36'45", long 77°06'24", Hydrologic Unit 02070011, 2.0 southwest of intersection with MD Rts. 210 and 227, 100 ft south of MD Rt. 210.

Owner: Maryland Geological Survey.

AQUIFER.--Upper Patuxent aquifer of the Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 1,120 ft; casing diameter 4 in., to 1,085 ft, and 1,095 to 1,105 ft; screen diameter 4 in. from 1,085 to 1,095 ft and 1,105 to 1,115 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey and Maryland Geological Survey personnel.

Equipped with digital water-level recorder--60-minute recorder interval, Oct. 22, 1996 to current year.

DATUM.--Elevation of land surface is 123.06 ft above sea level.

Measuring Point: Top of recorder shelf, 13.6 ft below land surface (land graded to 13.6 ft below original elevation).

REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by regional ground-water withdrawal.

Missing data due to recorder malfunction.

PERIOD OF RECORD.--October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.93 ft above sea level, Oct. 30, 1996;

lowest measured, 10.46 ft below sea level, Aug. 23, 1999.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	-10.21	-10.30	---	---	-10.68	-10.70	---	---	-10.70	-10.78	---	---
2	---	---	-10.17	-10.49	-10.67	-10.69	---	---	---	---	---	---
3	---	---	-10.26	-10.46	-10.64	-10.67	-10.65	-10.67	-10.67	-10.85	---	---
4	-10.23	-10.31	-10.46	-10.56	-10.62	-10.64	-10.52	-10.65	---	---	-10.79	-10.83
5	-10.23	-10.29	-10.56	-10.58	-10.58	-10.64	-10.55	-10.83	---	---	---	---
6	-10.28	-10.33	-10.52	-10.56	-10.50	-10.58	---	---	---	---	---	---
7	-10.33	-10.41	-10.54	-10.59	-10.55	-10.67	---	---	---	---	---	---
8	---	---	---	---	-10.67	-10.71	---	---	---	---	---	---
9	-10.35	-10.39	---	---	-10.67	-10.72	---	---	---	---	-10.80	-10.86
10	---	---	-10.50	-10.56	-10.50	-10.67	---	---	---	---	-10.80	-10.89
11	---	---	-10.50	-10.64	-10.58	-10.62	-10.53	-10.64	-10.72	-10.85	-10.81	-10.90
12	---	---	-10.60	-10.65	---	---	---	---	---	---	-10.76	-10.97
13	---	---	-10.54	-10.60	---	---	-10.55	-10.79	---	---	-10.97	-11.06
14	-10.22	-10.38	-10.37	-10.54	-10.49	-10.61	-10.79	-10.95	---	---	-11.06	-11.07
15	---	---	---	---	---	---	-10.92	-10.96	---	---	-11.05	-11.09
16	---	---	---	---	---	---	-10.71	-10.92	-10.77	-10.92	-10.99	-11.07
17	-10.29	-10.41	-10.52	-10.64	-10.56	-10.59	-10.87	-10.93	-10.92	-11.03	-10.91	-11.23
18	-10.28	-10.42	-10.64	-10.69	-10.58	-10.64	---	---	-10.76	-11.03	-11.23	-11.30
19	---	---	-10.67	-10.70	-10.64	-10.66	---	---	---	---	-11.26	-11.31
20	---	---	-10.62	-10.67	-10.56	-10.66	-10.58	-10.76	---	---	-11.23	-11.26
21	---	---	-10.63	-10.65	-10.57	-10.63	-10.68	-10.81	---	---	---	---
22	-10.18	-10.36	---	---	-10.62	-10.66	---	---	---	---	---	---
23	-10.20	-10.29	---	---	-10.60	-10.66	---	---	---	---	---	---
24	-10.29	-10.40	---	---	-10.63	-10.67	---	---	---	---	---	---
25	---	---	-10.62	-10.65	-10.67	-10.72	-10.51	-10.74	---	---	---	---
26	---	---	---	---	-10.49	-10.68	-10.56	-10.70	---	---	-11.02	-11.05
27	-10.41	-10.49	---	---	-10.51	-10.55	-10.70	-10.89	---	---	-10.96	-11.05
28	---	---	---	---	-10.52	-10.56	-10.89	-10.96	-10.81	-10.87	---	---
29	---	---	-10.59	-10.65	---	---	---	---	---	---	---	---
30	---	---	-10.65	-10.70	---	---	---	---	---	---	---	---
31	---	---	---	---	-10.60	-10.70	-10.70	-10.75	---	---	---	---
MONTH	-10.18	-10.49	-10.17	-10.70	-10.49	-10.72	-10.51	-10.96	-10.67	-11.03	-10.76	-11.31

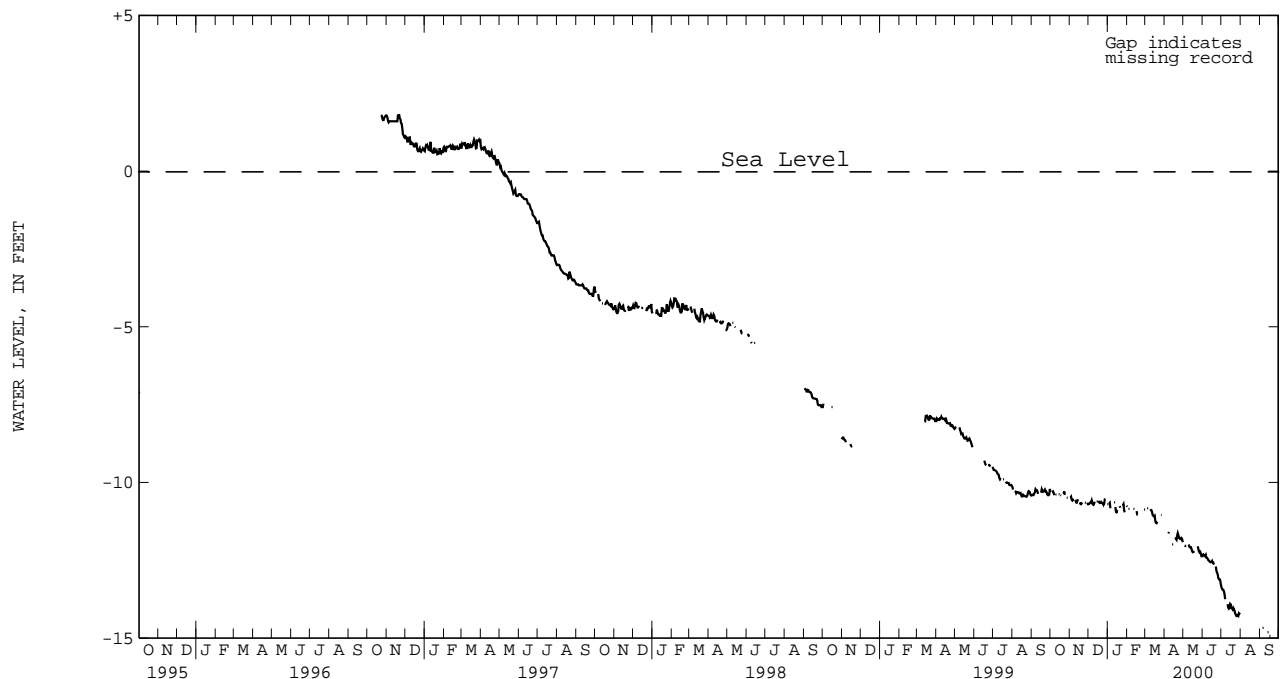
CHARLES COUNTY--Continued

CH Bc 80--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	-12.29	-12.32	-13.27	-13.36	---	---	---	---
2	---	---	---	---	-12.25	-12.31	-13.35	-13.42	---	---	---	---
3	---	---	-11.97	-12.03	-12.25	-12.34	-13.41	-13.45	---	---	---	---
4	---	---	-12.01	-12.04	-12.33	-12.37	-13.44	-13.45	---	---	---	---
5	---	---	-12.00	-12.02	-12.33	-12.37	-13.44	-13.50	---	---	-14.52	-14.67
6	---	---	---	---	-12.28	-12.33	-13.50	-13.59	---	---	---	---
7	-11.53	-11.64	---	---	-12.31	-12.42	-13.59	-13.75	---	---	---	---
8	-11.53	-11.59	---	---	-12.42	-12.43	---	---	---	---	---	---
9	---	---	-12.00	-12.00	-12.43	-12.45	---	---	---	---	---	---
10	---	---	-11.98	-12.02	-12.45	-12.50	---	---	---	---	---	---
11	---	---	-12.02	-12.08	-12.50	-12.51	-13.83	-13.91	---	---	---	---
12	---	---	-12.02	-12.08	-12.51	-12.54	-13.91	-14.03	---	---	---	---
13	-11.97	-11.99	-12.02	-12.08	-12.52	-12.56	-14.03	-14.06	---	---	-14.76	-14.81
14	---	---	-12.08	-12.13	-12.54	-12.56	-13.90	-14.04	---	---	---	---
15	---	---	-12.13	-12.21	-12.49	-12.55	-13.79	-13.90	---	---	---	---
16	---	---	-12.20	-12.24	-12.50	-12.52	-13.84	-13.92	---	---	-14.81	-14.93
17	---	---	-12.21	-12.23	-12.52	-12.58	-13.92	-14.02	---	---	---	---
18	-11.73	-11.77	-12.18	-12.23	-12.57	-12.58	-14.02	-14.05	---	---	---	---
19	-11.75	-11.81	-12.18	-12.23	-12.57	-12.64	-14.01	-14.08	---	---	---	---
20	-11.72	-11.84	---	---	---	---	-14.00	-14.03	---	---	---	---
21	-11.60	-11.72	---	---	---	---	-14.03	-14.07	---	---	---	---
22	-11.60	-11.63	---	---	-12.66	-12.70	-14.07	-14.12	---	---	---	---
23	-11.63	-11.69	---	---	-12.70	-12.84	-14.12	-14.21	---	---	---	---
24	-11.69	-11.78	-12.04	-12.05	-12.84	-12.90	-14.21	-14.24	---	---	---	---
25	-11.73	-11.78	-12.05	-12.14	-12.90	-12.95	-14.24	-14.29	---	---	---	---
26	-11.73	-11.82	-12.14	-12.22	-12.95	-13.07	-14.25	-14.29	---	---	---	---
27	-11.79	-11.82	-12.22	-12.25	-13.07	-13.11	-14.25	-14.27	---	---	---	---
28	-11.76	-11.79	-12.20	-12.23	-13.10	-13.11	-14.16	-14.29	---	---	---	---
29	-11.76	-11.82	-12.21	-12.29	-13.10	-13.14	-14.14	-14.20	---	---	---	---
30	-11.82	-11.92	-12.29	-12.37	-13.14	-13.27	-14.17	-14.22	---	---	---	---
31	---	---	-12.31	-12.37	---	---	-14.20	-14.24	---	---	---	---
MONTH	-11.53	-11.99	-11.97	-12.37	-12.25	-13.27	-13.27	-14.29	---	---	-14.52	-14.93
YEAR	-10.17	-14.93										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CHARLES COUNTY--Continued

WELL NUMBER.--CH Bc 81. SITE ID.--383709077061002. PERMIT NUMBER.--CH-88-0482.

LOCATION.--Lat 38°37'09", long 77°06'10", Hydrologic Unit 02070010, 1.7 mi southwest of intersection with MD Rts. 210 and 227, on northwest side of Chapmans Landing Rd.

Owner: Montrose Farms.

AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 656 ft; casing diameter 6 in., to 541 ft, casing diameter 4 in. from 531 to 556 ft, 588 to 642 ft, 646 to 656 ft ; screen diameter 4 in. from 556 to 588 ft, 642 to 646 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey and Maryland Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval, Aug. 28, 1996 to current year.

DATUM.--Elevation of land surface is 156.46 ft above sea level.

Measuring Point: Top of recorder shelf, 2.07 ft above land surface.

REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by regional ground-water withdrawal.

Missing data due to recorder malfunction.

PERIOD OF RECORD.--August 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 97.97 ft below sea level, July 3, and 4, 1997; lowest measured, 114.85 ft below sea level, Aug. 5, 1999.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	-112.17	-112.29	---	---	---	---	---	---	---	---	---	---
2	-111.96	-112.17	-111.57	-111.77	---	---	---	---	---	---	-109.99	-110.07
3	---	---	-111.58	-111.69	---	---	-110.64	-110.83	---	---	-110.07	-110.08
4	---	---	---	---	---	---	---	---	---	---	-109.98	-110.07
5	-111.96	-112.18	---	---	-111.32	-111.44	---	---	---	---	---	---
6	-112.12	-112.20	---	---	-111.27	-111.44	---	---	---	---	---	---
7	---	---	---	---	-111.25	-111.48	---	---	---	---	---	---
8	---	---	-111.61	-111.68	-111.48	-111.60	---	---	---	---	---	---
9	---	---	-111.46	-111.61	-111.20	-111.59	---	---	-110.52	-110.69	-109.70	-109.88
10	---	---	-111.48	-111.54	---	---	-110.27	-110.39	---	---	---	---
11	-111.85	-111.96	-111.51	-111.81	---	---	---	---	---	---	---	---
12	-111.67	-111.85	-111.57	-111.81	---	---	---	---	---	---	---	---
13	-111.29	-111.67	-111.37	-111.57	---	---	---	---	---	---	-110.18	-110.21
14	-111.29	-111.77	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	-110.70	-110.89	---	---	---	---	-110.02	-110.14
16	---	---	-111.46	-111.78	---	---	---	---	---	---	-109.72	-110.13
17	---	---	---	---	---	---	---	---	---	---	-109.61	-109.98
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	-109.60	-109.99
20	-111.56	-111.86	---	---	---	---	-109.97	-110.39	---	---	---	---
21	---	---	-112.40	-112.67	---	---	-109.98	-110.41	---	---	---	---
22	---	---	-112.43	-112.67	---	---	---	---	---	---	-109.36	-109.48
23	-111.32	-111.54	---	---	---	---	-110.26	-110.38	-110.27	-110.40	---	---
24	---	---	---	---	---	---	-110.24	-110.37	---	---	-109.33	-109.53
25	---	---	-111.84	-112.08	---	---	---	---	-110.20	-110.40	-109.24	-109.34
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	-111.62	-111.83	-110.76	-110.88	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	-109.99	-110.21	---	---
29	---	---	---	---	-110.74	-110.91	---	---	---	---	---	---
30	---	---	-111.67	-111.84	-110.68	-110.87	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	-111.29	-112.29	-111.37	-112.67	-110.68	-111.60	-109.97	-110.83	-109.99	-110.69	-109.24	-110.21

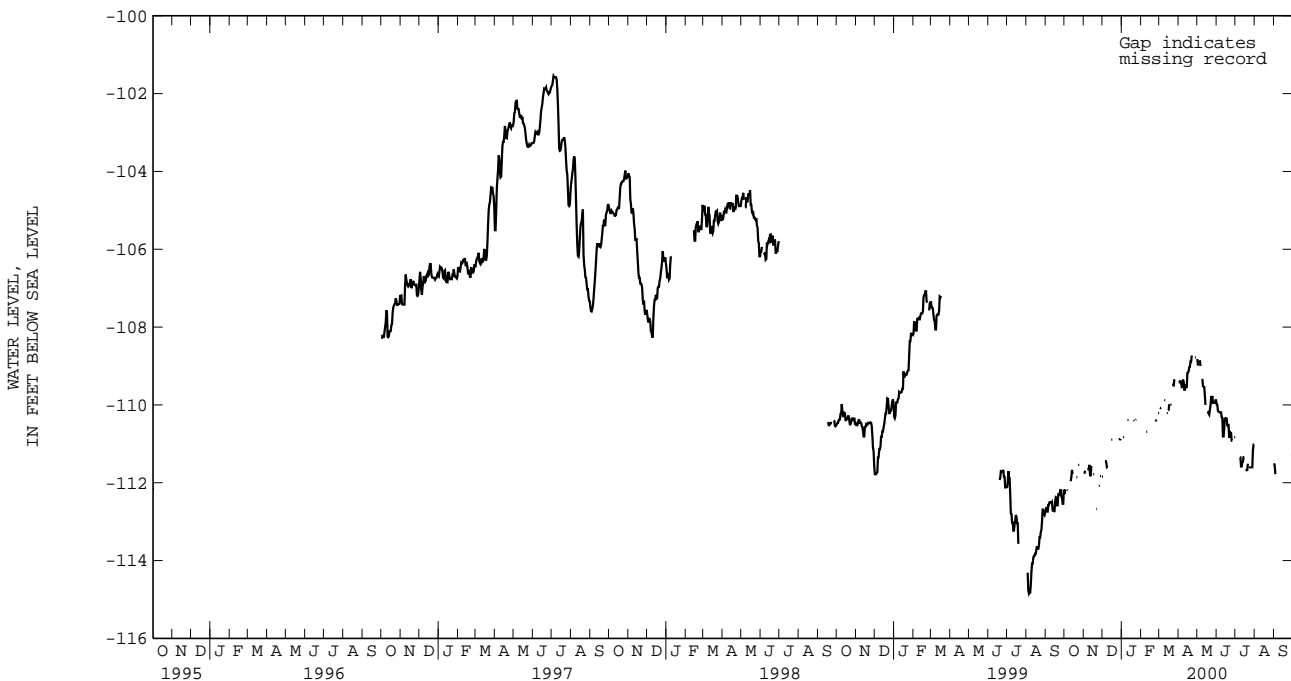
CHARLES COUNTY--Continued

CH Bc 81--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	-109.36	-109.42	-108.75	-108.82	-109.76	-109.99	---	---	---	---	-111.38	-111.50
2	-109.35	-109.42	-108.73	-108.99	-109.92	-110.00	---	---	---	---	-111.45	-111.56
3	-109.32	-109.39	---	---	-109.92	-110.16	---	---	---	---	-111.56	-111.78
4	-109.36	-109.39	---	---	-109.99	-110.17	---	---	---	---	---	---
5	-109.34	-109.44	-108.69	-108.85	-109.99	-110.19	---	---	---	---	---	---
6	-109.44	-109.54	-108.69	-109.00	-109.98	-110.19	---	---	---	---	---	---
7	-109.24	-109.53	---	---	-109.97	-110.19	---	---	---	---	---	---
8	-109.21	-109.35	---	---	-110.12	-110.19	-111.06	-111.35	---	---	---	---
9	-109.34	-109.40	-109.21	-109.33	-110.05	-110.32	-111.23	-111.35	---	---	---	---
10	-109.40	-109.61	-109.21	-109.52	-110.32	-110.33	-111.23	-111.58	---	---	---	---
11	-109.52	-109.61	-109.46	-109.53	-110.33	-110.81	-111.47	-111.58	---	---	---	---
12	-109.35	-109.52	-109.38	-109.54	-110.62	-110.81	-111.40	-111.47	---	---	---	---
13	-109.40	-109.54	-109.54	-109.76	-110.35	-110.62	-111.31	-111.46	---	---	---	---
14	-109.18	-109.54	-109.76	-110.00	-110.31	-110.35	-111.26	-111.34	---	---	---	---
15	-109.10	-109.18	---	---	-110.22	-110.34	-111.21	-111.34	---	---	---	---
16	-109.13	-109.17	---	---	-110.18	-110.34	---	---	---	---	---	---
17	-108.99	-109.13	-110.00	-110.17	-110.33	-110.35	---	---	---	---	---	---
18	-109.00	-109.03	-110.00	-110.18	-110.33	-110.53	-111.56	-111.70	---	---	---	---
19	-108.80	-109.02	-110.00	-110.22	-110.48	-110.54	-111.54	-111.67	---	---	---	---
20	-108.80	-108.88	-110.13	-110.25	-110.34	-110.53	-111.51	-111.67	---	---	---	---
21	-108.59	-108.88	-110.00	-110.13	-110.53	-110.84	-111.38	-111.51	---	---	---	---
22	-108.52	-108.73	-109.81	-110.02	-110.49	-110.67	---	---	---	---	---	---
23	---	---	-109.77	-109.81	-110.54	-110.73	---	---	---	---	---	---
24	---	---	-109.77	-109.82	-110.65	-110.73	-111.58	-111.63	---	---	---	---
25	---	---	-109.73	-109.77	-110.65	-110.92	-111.43	-111.58	---	---	---	---
26	---	---	-109.75	-109.95	-110.72	-110.92	---	---	---	---	---	---
27	-108.50	-108.78	-109.80	-109.95	---	---	---	---	---	---	---	---
28	---	---	-109.78	-109.94	---	---	-111.17	-111.63	---	---	-111.10	-111.28
29	---	---	-109.80	-109.94	-110.66	-110.83	-110.89	-111.17	---	---	---	---
30	---	---	-109.76	-109.88	---	---	-110.89	-111.02	---	---	---	---
31	---	---	-109.76	-109.88	---	---	-110.92	-111.02	---	---	---	---
MONTH	-108.50	-109.61	-108.69	-110.25	-109.76	-110.92	-110.89	-111.70	---	---	-110.10	-111.78
YEAR	-108.50	-112.67										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

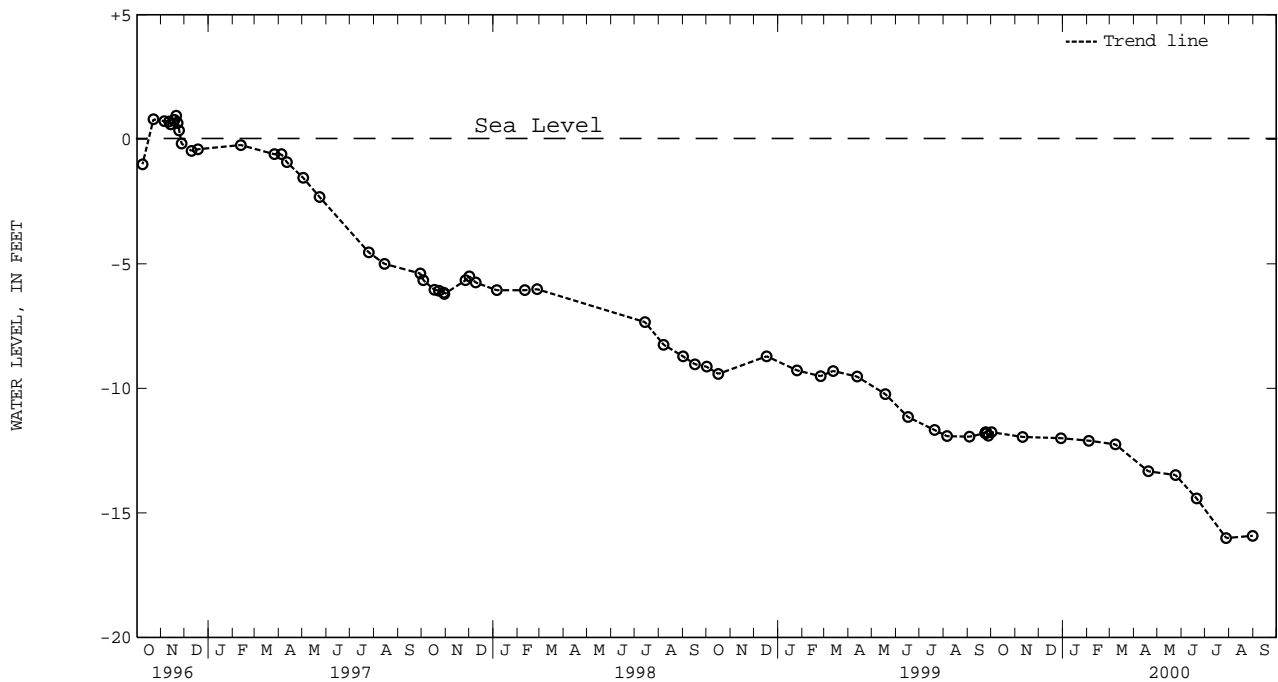
GROUND-WATER LEVELS IN MARYLAND--Continued

CHARLES COUNTY--Continued

WELL NUMBER.--CH Bd 52. SITE ID.--383553077032401. PERMIT NUMBER.--CH-94-0899.
 LOCATION.--Lat 38°35'53", long 77°03'24", Hydrologic Unit 02070011, 2.5 mi southeast of Pomonkey, on east side of MD Rt. 227.
 Owner: Maryland Geological Survey.
 AQUIFER.--Upper Patuxent aquifer of the Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 1,105 ft; casing diameter 4 in., to 1,040 ft, and 1,050 to 1,085 ft, and 1,095 to 1,105 ft; screen diameter 4 in. from 1,040 to 1,050 ft, and 1,085 to 1,095 ft.
 INSTRUMENTATION.--Monthly measurements with steel tape by Maryland Geological Survey personnel. Equipped with digital water-level recorder--15-minute recorder interval, Sept. 1, 1998 to April 19, 2000.
 DATUM.--Elevation of land surface is 47.50 ft above sea level.
 Measuring Point: Top of recorder shelf, 3.0 ft above land surface.
 REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by regional ground-water withdrawal.
 PERIOD OF RECORD.--October 1996 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.03 ft above sea level, Nov. 9, 1996;
 lowest measured, 11.96 ft below sea level, Aug. 3, 4, 1999.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01, 1999	-11.76	FEB 03, 2000	-12.10	MAY 24, 2000	-13.48	AUG 31, 2000	-15.92
NOV 10	-11.95	MAR 08	-12.25	JUN 20	-14.42		
DEC 29	-12.00	APR 19	-13.33	JUL 28	-16.01		
WATER YEAR 2000		HIGHEST -12.10	FEB 03, 2000	LOWEST -16.01	JUL 28, 2000		



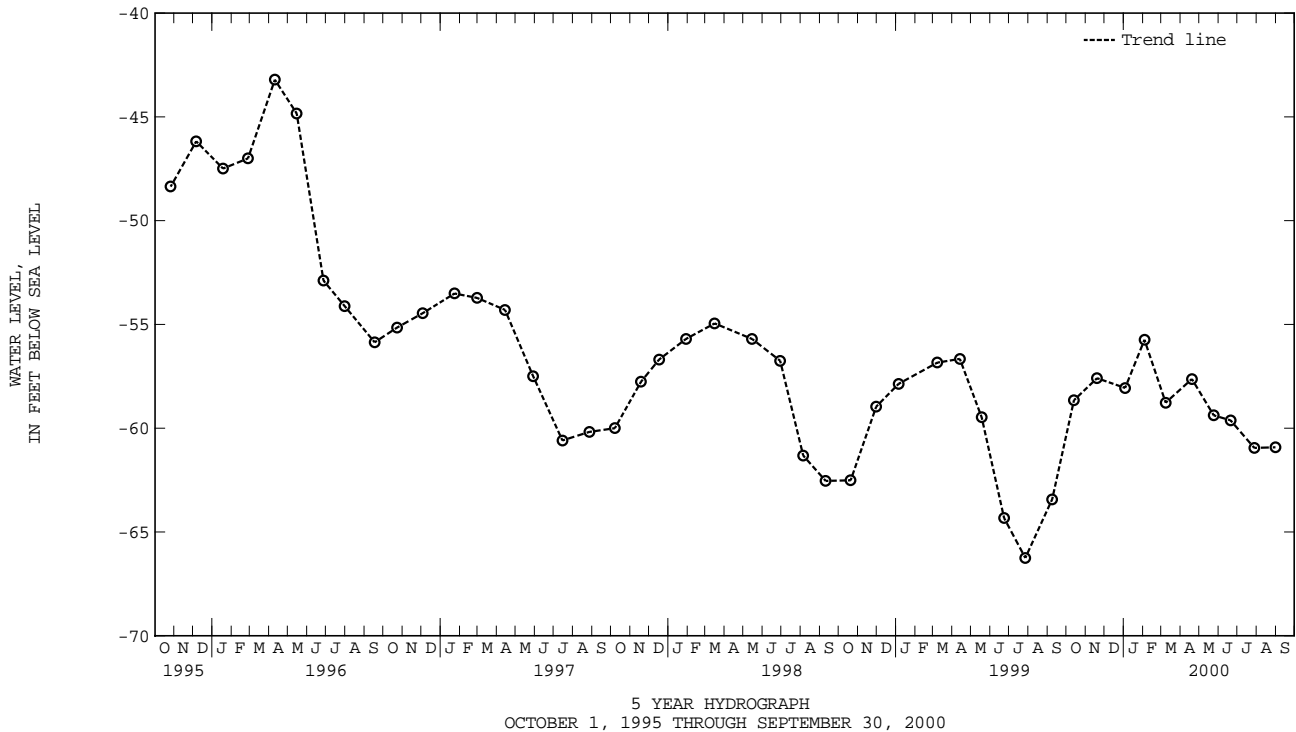
5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CHARLES COUNTY--Continued

WELL NUMBER.--CH Be 43. SITE ID.--38381907655501. PERMIT NUMBER.--CH-71-0066.
 LOCATION.--Lat 38°38'19", long 76°55'55", Hydrologic Unit 02070011, at northeast end of Joy Lane, 0.2 mi east of Sun Valley Drive, Waldorf.
 Owner: Lennart Larson.
 AQUIFER.--Magothy Formation of Upper Cretaceous age. Aquifer code: 211MGTY.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 459 ft; casing diameter 6 in., to 428 ft; screen diameter 5 in. from 433 to 459 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder from Feb. 10, 1977 to Jan. 27, 1978. Equipped with digital water-level recorder--60-minute recorder interval from Feb. 27, 1978 to Jan. 3, 2000.
 DATUM.--Altitude of land surface is 216.79 ft above sea level.
 Measuring Point: Top of casing, 2.0 ft above land surface.
 REMARKS.--Southern Maryland Observation Well Network. Water levels are affected by regional ground-water withdrawal.
 PERIOD OF RECORD.--February 1977 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.05 ft above sea level, Feb. 22, 1977; lowest measured, 66.69 ft below sea level, July 22-24, 1999.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1999	-58.65	FEB 03, 2000	-55.74	MAY 24, 2000	-59.38	AUG 31, 2000	-60.92
NOV 19	-57.59	MAR 08	-58.77	JUN 20	-59.62		
JAN 03, 2000	-58.06	APR 19	-57.63	JUL 28	-60.95		
WATER YEAR 2000 HIGHEST		-55.74 FEB 03, 2000	LOWEST		-60.95 JUL 28, 2000		



GROUND-WATER LEVELS IN MARYLAND--Continued

CHARLES COUNTY--Continued

WELL NUMBER.--CH Be 57. SITE ID.--383706076575601. PERMIT NUMBER.--CH-81-1194.

LOCATION.--Lat 38°37'06", long 76°57'56", Hydrologic Unit 02070011, St. John's pumping station, St. Charles.

Owner: Charles County Department of Public Works.

AQUIFER.--Upper Patuxant aquifer of the Patuxant Formation of Lower Cretaceous age. Aquifer code: 217PTXNU.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 1,696 ft; casing diameter 6 in., to 400 ft; casing diameter 4 in. from 400 to 1,660 ft, screen diameter 4 in. from 1,660 to 1,696 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel from April 1992 to current year.

DATUM.--Elevation of land surface is 213.0 ft above sea level.

Measuring Point: Top of recorder platform, 2.0 ft above land surface.

REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by regional ground-water withdrawal.

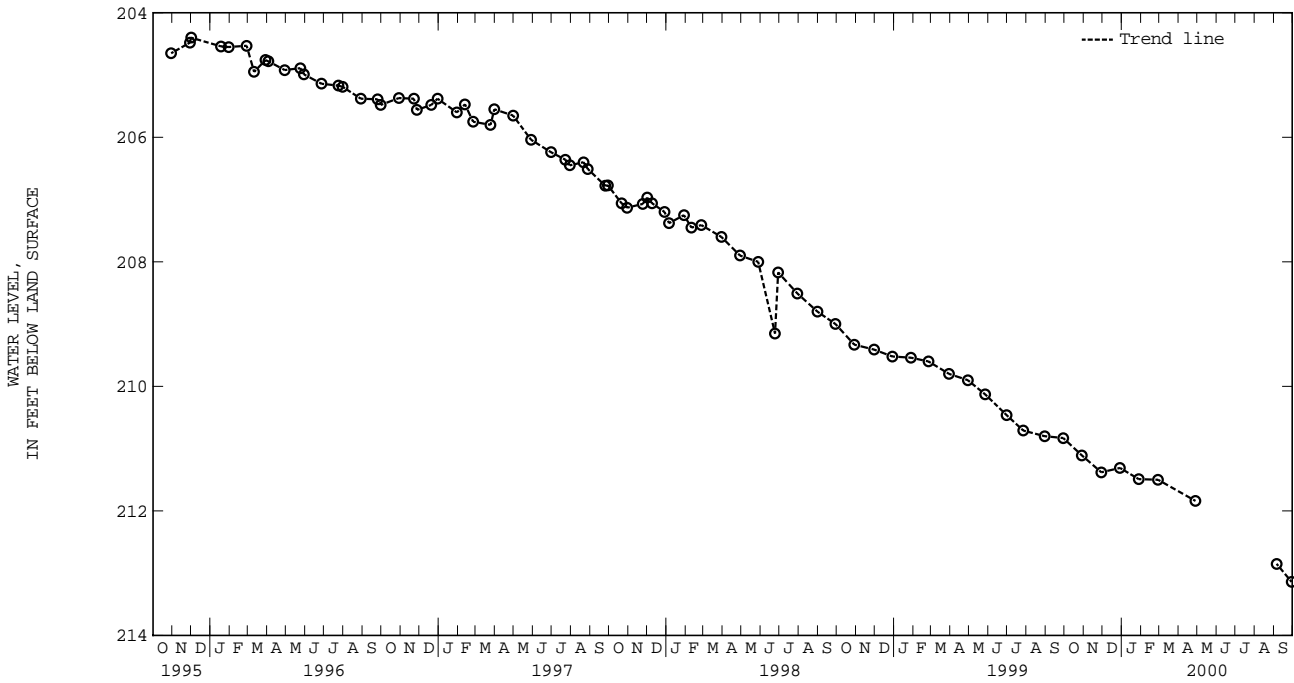
PERIOD OF RECORD.--April 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 196.10 ft below land surface, April 3, 1986;

lowest measured, 211.71 ft below land surface, July 27, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29, 1999	211.11	DEC 29, 1999	211.31	FEB 28, 2000	211.50	SEP 05, 2000	212.85
NOV 29	211.38	JAN 28, 2000	211.49	APR 28	211.84	29	213.14
WATER YEAR 2000 HIGHEST 211.11 OCT 29, 1999		LOWEST 213.14		SEP 29, 2000			



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CHARLES COUNTY--Continued

WELL NUMBER.--CH Be 60. SITE ID.--383706076575604. PERMIT NUMBER.--CH-81-1468.

LOCATION.--Lat 38°37'06", long 76°57'56", Hydrologic Unit 02070011, St. John's pumping station, St. Charles.

Owner: U.S. Geological Survey.

AQUIFER.--Upper Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 625 ft; casing diameter 6 in., to 401 ft; casing diameter 4 in. from 401 ft to 610 ft, and 625 to 635 ft; screen diameter 4 in. from 610 to 625 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel from April 1992 to current year.

DATUM.--Elevation of land surface is 212.8 ft above sea level.

Measuring Point: Top of flange, 2.2 ft above land surface.

REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by regional ground-water withdrawal.

PERIOD OF RECORD.--November 1986 to current year.

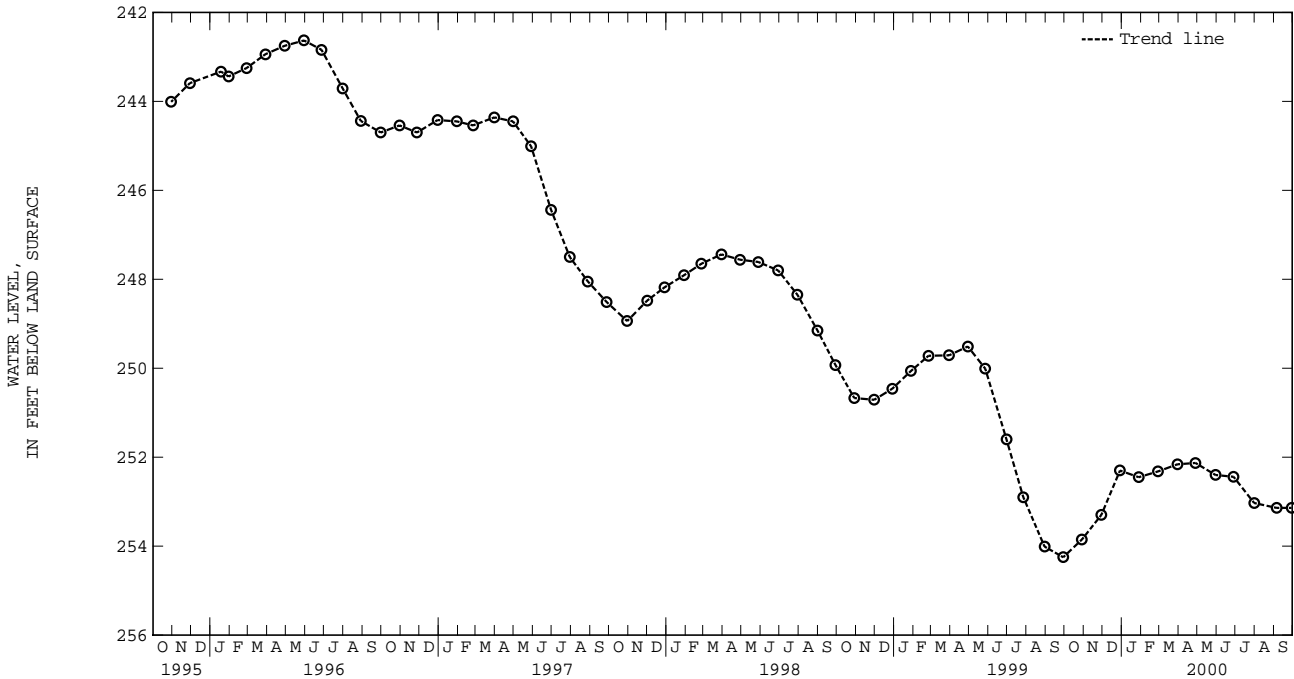
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 227.10 ft below land surface, April 10, 1987;

lowest measured, 254.25 ft below land surface, Sept. 29, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29, 1999	253.85	JAN 28, 2000	252.45	APR 28, 2000	252.13	JUL 31, 2000	253.03
NOV 29	253.30	FEB 28	252.32	MAY 30	252.40	SEP 05	253.14
DEC 29	252.30	MAR 30	252.16	JUN 28	252.44	29	253.14

WATER YEAR 2000 HIGHEST 252.13 APR 28, 2000 LOWEST 253.85 OCT 29, 1999



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CHARLES COUNTY--Continued

WELL NUMBER.--CH Bf 101. SITE ID.--383853076532601. PERMIT NUMBER.--CH-01-1882.

LOCATION.--Lat 38°38'53", long 76°53'26", Hydrologic Unit 02070011, at Sam's Club, 1.7 mi. northwest of Waldorf.
Owner: Sam's Club.

AQUIFER.--Magothy Formation of Upper Cretaceous age. Aquifer code: 211MGTY.

WELL CHARACTERISTICS.--Drilled, artesian well, depth 475 ft; casing diameter 6 in., to 423 ft, and 438 to 449 ft;
screen diameter 6 in. from 423 to 438 ft, and 449 to 475 ft.INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic
water-level recorder from Nov. 20, 1976 to Feb. 6, 1978. Equipped with digital water-level recorder--60-minute
recorder interval from Feb. 26, 1978 to current year. Recorder removed from May 14, 1991 to November 19, 1991 during
construction at the site.

DATUM.--Altitude of land surface is 216.45 ft above sea level.

Measuring Point: Top of casing, 1.18 ft above land surface.

REMARKS.--Southern Maryland Observation Well Network. Water levels are affected by local and regional ground-water withdrawal.

Recorder removed May 14, 1991 to Nov. 19, 1991 during building construction. Missing data due to recorder malfunction.

PERIOD OF RECORD.--November 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.60 ft above sea level, Jan. 16, 1977;
lowest measured, 61.25 ft below sea level, June 14, 1999.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-50.85	-51.45	-48.46	-48.72	-50.13	-51.14	-45.99	-46.48	-44.09	-44.40	---	---
2	-50.83	-51.40	-48.10	-48.70	-49.25	-50.13	-45.48	-45.99	-43.82	-44.09	---	---
3	-51.40	-51.95	-48.70	-49.34	-48.71	-49.25	-45.21	-45.48	-43.44	-43.82	---	---
4	-50.84	-51.45	-48.96	-49.23	-48.47	-48.71	-44.68	-45.21	-43.31	-43.44	---	---
5	-50.73	-50.84	-48.89	-48.96	-48.13	-48.47	-44.61	-44.68	-43.26	-43.53	---	---
6	-49.83	-50.73	-48.83	-49.51	-47.90	-48.13	-44.20	-44.61	-43.26	-43.53	---	---
7	-49.81	-49.83	-49.51	-50.13	-47.76	-48.33	-43.94	-44.52	-43.09	-43.26	---	---
8	-49.71	-49.82	-49.09	-49.75	-48.33	-48.73	-44.52	-45.04	---	---	---	---
9	-49.64	-50.35	-48.65	-49.09	-47.85	-48.33	-44.83	-45.51	-43.61	-43.87	---	---
10	-50.35	-50.87	-48.35	-48.65	-47.39	-47.85	---	---	-43.87	-44.51	---	---
11	-49.95	-50.43	-48.32	-48.43	-47.32	-47.39	---	---	-44.51	-44.59	---	---
12	-49.66	-49.95	-48.27	-48.43	-47.31	-47.32	---	---	-44.59	-45.47	---	---
13	-49.32	-49.66	-48.08	-48.27	-47.31	-47.31	---	---	-45.47	-45.87	---	---
14	-49.03	-49.53	-48.03	-48.11	---	---	---	---	-45.42	-45.62	---	---
15	-49.53	-49.91	-48.06	-48.12	---	---	---	---	-45.42	-45.78	---	---
16	-49.21	-49.54	-48.06	-48.17	-47.63	-47.71	---	---	-45.78	-46.00	---	---
17	-48.95	-49.21	-48.17	-48.23	-47.45	-47.63	---	---	---	---	---	---
18	-48.63	-48.95	-48.04	-48.21	-47.35	-48.08	---	---	---	---	---	---
19	-48.43	-49.27	-47.85	-48.10	-48.01	-48.14	---	---	---	---	---	---
20	-49.07	-49.49	-47.65	-48.30	-47.84	-48.72	---	---	---	---	---	---
21	-48.71	-49.07	-48.30	-48.99	-48.57	-49.05	---	---	---	---	-46.55	-46.99
22	-48.42	-48.71	-48.43	-49.30	-48.05	-48.57	---	---	---	---	-46.39	-46.55
23	-48.32	-49.08	-49.24	-49.61	-47.84	-48.53	---	---	---	---	-46.24	-46.39
24	-49.08	-49.71	-48.69	-49.24	-48.53	-48.95	-46.62	-47.12	---	---	-46.03	-46.24
25	-48.86	-49.42	-48.47	-48.69	-47.98	-48.67	-46.29	-46.86	---	---	-45.95	-46.34
26	-48.63	-48.86	-48.18	-48.47	-47.11	-47.98	-45.88	-46.29	---	---	-46.21	-46.40
27	-48.60	-48.63	-48.17	-48.95	-46.36	-47.11	-45.50	-45.88	---	---	-45.84	-46.21
28	-48.34	-48.60	-48.95	-49.46	-45.97	-46.36	-45.50	-46.12	---	---	-45.64	-45.84
29	-48.23	-48.93	-48.83	-49.56	-45.74	-45.97	-45.42	-46.12	---	---	-45.63	-45.74
30	-48.93	-49.48	-49.56	-51.04	-45.63	-46.31	-44.61	-45.42	---	---	-45.74	-46.04
31	-48.72	-49.05	---	---	-46.31	-46.87	-44.40	-44.61	---	---	-46.04	-46.07
MONTH	-48.23	-51.95	-47.65	-51.04	-45.63	-51.14	-43.94	-47.12	-43.09	-46.00	-45.63	-46.99

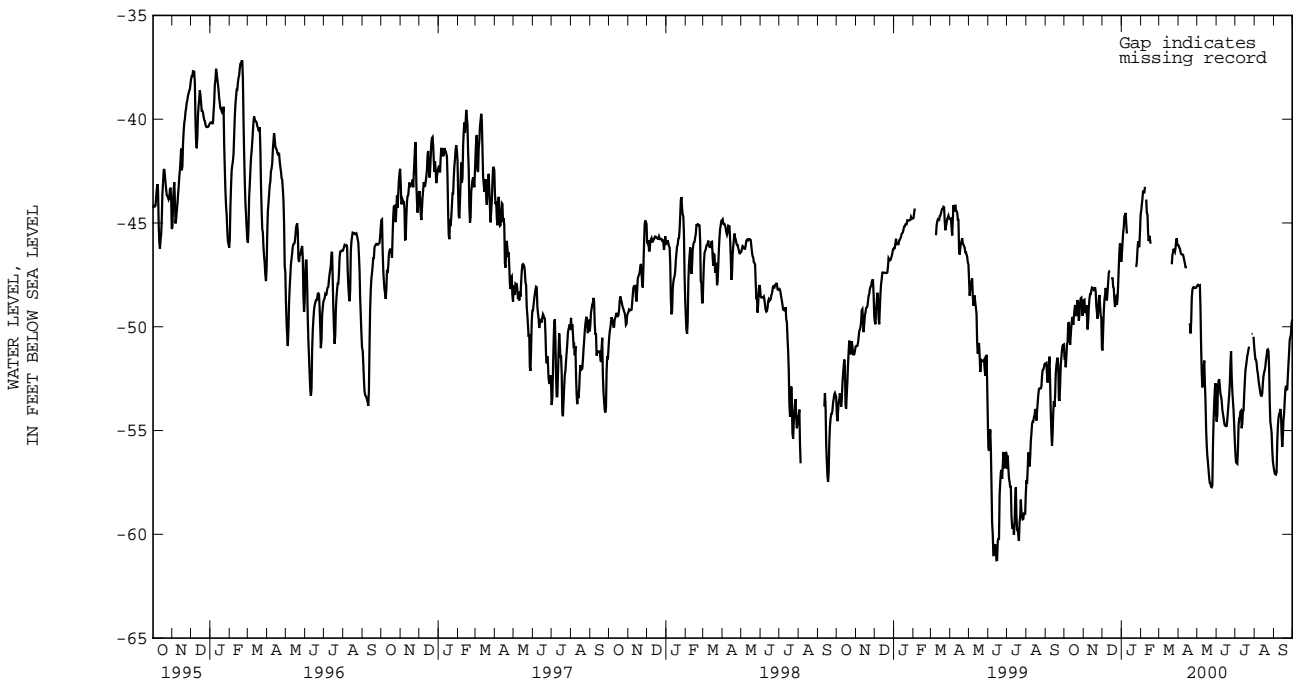
CHARLES COUNTY--Continued

CH Bf 101--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-46.03	-46.08	-47.91	-48.02	-54.23	-54.57	-55.52	-56.14	-50.93	-51.27	-56.71	-56.90
2	-46.06	-46.20	-47.87	-47.98	-52.89	-54.23	-56.14	-56.53	-51.27	-51.57	-56.90	-57.06
3	-46.20	-46.23	-47.98	-48.01	-52.60	-52.89	-56.53	-56.57	-51.57	-51.59	-57.03	-57.11
4	-46.23	-46.41	-48.00	-48.03	-52.41	-52.60	-55.93	-56.60	-51.58	-51.77	-57.01	-57.12
5	-46.41	-46.50	-47.98	-48.01	-52.41	-52.53	-54.77	-55.93	-51.77	-52.10	-55.59	-57.01
6	-46.43	-46.51	-47.97	-49.14	-52.53	-52.86	-54.41	-54.77	-52.10	-52.27	-54.81	-55.59
7	-46.48	-46.53	-49.14	-50.94	-52.86	-53.25	-54.39	-54.41	-52.27	-52.57	-54.41	-54.81
8	-46.48	-46.53	-50.94	-52.25	-53.13	-53.35	-54.09	-54.39	-52.57	-52.79	-54.21	-54.41
9	-46.53	-46.65	-52.25	-52.92	-53.27	-53.57	-53.49	-54.09	-52.79	-52.98	-54.15	-54.21
10	-46.64	-46.80	-51.95	-52.68	-53.57	-54.00	-53.29	-54.05	-52.98	-53.21	-53.96	-54.15
11	-46.80	-46.95	-51.63	-51.95	-54.00	-54.18	-54.05	-54.89	-53.21	-53.32	-53.91	-53.96
12	-46.95	-47.13	-51.60	-51.63	-54.18	-54.39	-54.08	-54.68	-53.21	-53.33	-53.92	-54.21
13	-47.12	-47.13	-51.61	-52.71	-54.39	-54.61	-54.00	-54.08	-52.70	-53.21	-54.21	-55.11
14	-47.07	-47.12	-52.71	-53.54	-54.61	-54.75	-53.29	-54.05	-52.37	-52.70	-55.11	-55.79
15	---	---	-53.54	-54.92	-54.75	-54.77	-52.68	-53.29	-52.20	-52.37	-54.50	-55.31
16	---	---	-54.92	-55.72	-54.77	-54.79	-52.12	-52.68	-52.09	-52.20	-54.20	-54.50
17	---	---	-55.72	-56.23	-54.47	-54.78	-51.89	-52.12	-51.91	-52.09	-53.60	-54.20
18	---	---	-56.23	-56.55	-54.08	-54.47	-51.67	-51.89	-51.61	-51.91	-53.02	-53.60
19	-47.92	-49.83	-56.55	-56.93	-53.67	-54.08	-51.40	-51.67	-51.38	-51.61	-52.66	-53.02
20	-49.83	-50.32	-56.93	-57.32	-53.28	-53.67	-51.28	-51.40	-51.12	-51.38	-52.47	-52.85
21	-48.61	-49.83	-57.32	-57.53	-52.71	-53.28	-51.08	-51.28	-51.00	-51.12	-52.66	-53.02
22	-48.23	-48.61	-57.53	-57.55	-51.79	-52.71	-50.96	-51.08	-50.99	-51.09	-52.40	-53.01
23	-48.11	-48.23	-57.55	-57.71	-51.09	-51.79	-50.81	-50.96	-51.01	-51.17	-51.79	-52.40
24	-48.09	-48.11	-57.63	-57.73	-50.71	-51.17	---	---	-51.09	-51.98	-51.26	-51.79
25	-48.04	-48.09	-55.73	-57.63	-51.17	-52.39	---	---	-51.98	-53.66	-50.65	-51.26
26	-48.04	-48.13	-54.51	-55.73	-52.39	-53.10	---	---	-53.66	-54.58	-50.50	-50.65
27	-48.13	-48.13	-53.66	-54.51	-53.10	-53.58	-50.27	-50.34	-54.23	-54.82	-50.37	-50.50
28	-48.12	-48.13	-53.00	-53.66	-53.58	-54.02	---	---	-54.38	-55.12	-49.84	-50.37
29	-48.05	-48.12	-52.60	-53.00	-54.02	-54.71	---	---	-55.12	-55.91	-49.65	-49.84
30	-48.02	-48.05	-52.23	-52.72	-54.71	-55.52	-50.20	-50.48	-55.91	-56.48	-49.64	-49.65
31	---	---	-52.72	-54.24	---	---	-50.48	-50.93	-56.48	-56.71	---	---
MONTH	-46.03	-50.32	-47.87	-57.73	-50.71	-55.52	-50.20	-56.60	-50.93	-56.71	-49.64	-57.12
YEAR	-43.09	-57.73										

Daily Low Water Levels



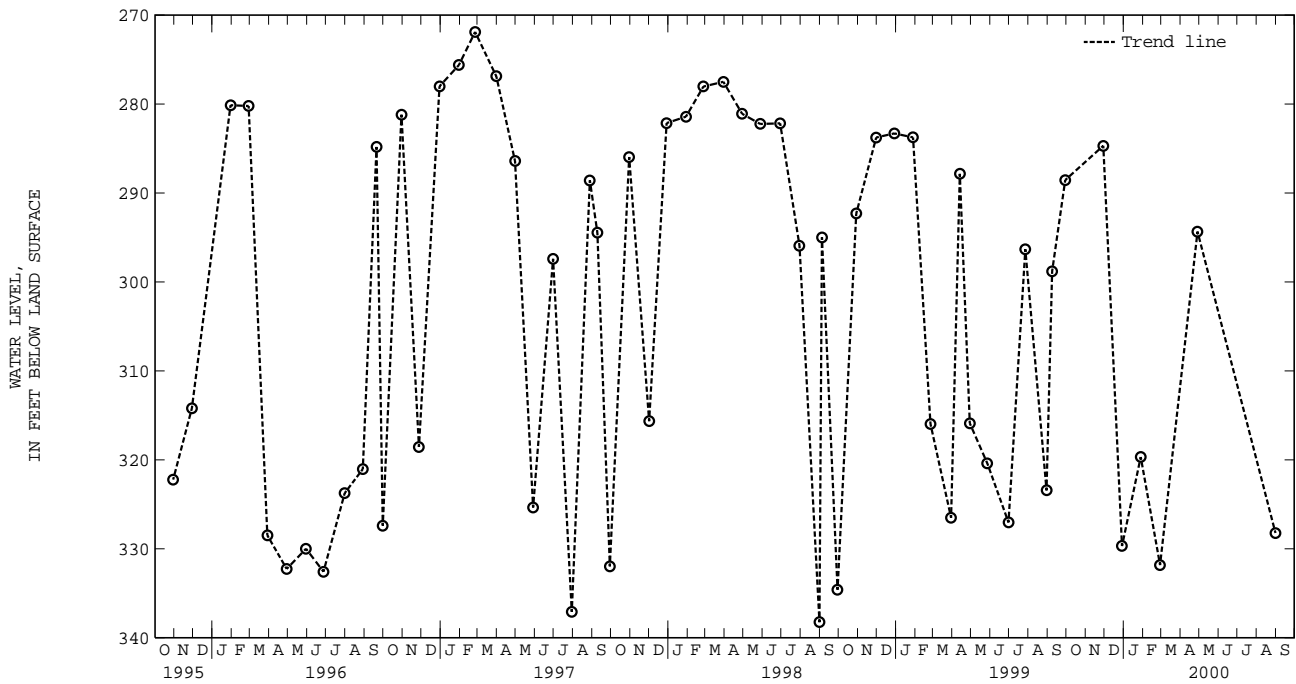
5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CHARLES COUNTY--Continued

WELL NUMBER.--CH Bf 133. SITE ID.--383640076545901. PERMIT NUMBER.--CH-70-0069.
 LOCATION.--Lat 38°36'40", long 76°54'59", Hydrologic Unit 02070011, at St. Charles, Copely Rd. pumping station.
 Owner: Charles County Department of Public Works.
 AQUIFER.--Magothy Formation of Upper Cretaceous age. Aquifer code: 211MGTY.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 510 ft; casing diameter 10 in., to 77 ft;
 casing diameter 6 in. from -2 to 420 ft, casing diameter 4 in. from 420 to 436 ft and 506 to 510 ft;
 screen diameter 4 in. from 436 to 506 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel from April 1992
 to current year. Twice yearly measurements from April 1974 to April 1992.
 DATUM.--Elevation of land surface is 223.50 ft above sea level.
 Measuring Point: Top of casing, 0.82 ft above land surface.
 REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by local ground-water withdrawal.
 PERIOD OF RECORD.--April 1974 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 211.68 ft below land surface, April 26, 1974;
 lowest measured, 338.25 ft below land surface, August 31, 1998.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 29, 1999	284.69	JAN 28, 2000	319.68	APR 28, 2000	294.34
DEC 29	329.69	FEB 28	331.83	AUG 31	328.22
WATER YEAR 2000 HIGHEST 284.69		NOV 29, 1999		LOWEST 331.83 FEB 28, 2000	

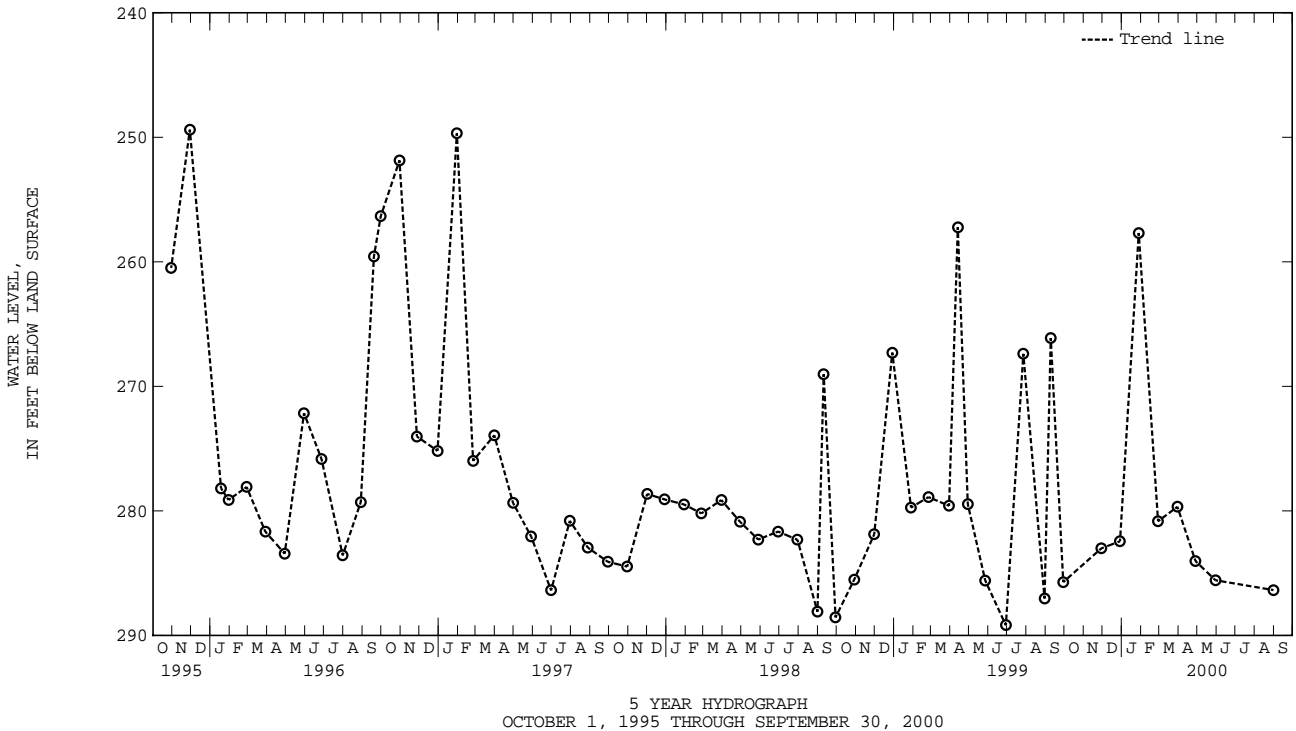


CHARLES COUNTY--Continued

WELL NUMBER.--CH Bf 134. SITE ID.--383728076531701. PERMIT NUMBER.--CH-70-0067.
 LOCATION.--Lat 38°37'28", long 76°53'17", Hydrologic Unit 02070011, at John Hansen Middle School parking lot, at Waldorf.
 Owner: Charles County Department of Public Works.
 AQUIFER.--Magothy Formation of Upper Cretaceous age. Aquifer code: 211MGTY.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 546 ft; casing diameter 6 in., to 402 ft; casing diameter 4 in. from 422 to 485 ft; screen diameter 4 in. from 402 to 422 ft and 485 to 546 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 202.09 ft above sea level.
 Measuring point: Top of casing, 1.52 ft above land surface.
 REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by local ground-water withdrawal.
 PERIOD OF RECORD.--April 1974 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 188.87 ft below land surface, April 26, 1974; lowest measured, 289.18 ft below land surface, June 29, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 29, 1999	283.01	JAN 28, 2000	257.68	MAR 30, 2000	279.67	MAY 30, 2000	285.57
DEC 29	282.44	FEB 28	280.83	APR 28	284.03	AUG 31	286.36
WATER YEAR 2000 HIGHEST 257.68		JAN 28, 2000		LOWEST 286.36		AUG 31, 2000	



CHARLES COUNTY--Continued

WELL NUMBER.--CH Bf 146. SITE ID.--383508076540701. PERMIT NUMBER.--CH-81-0593.

LOCATION.--Lat 38°35'08", long 76°54'07", Hydrologic Unit 02070011, 0.3 mi south of the intersection of St. Pauls Dr. and Piney Church Rd., St. Charles.

Owner: Charles County Department of Public Works.

AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 1,427 ft; casing diameter 6 in., to 1,059 ft, 1,069 to 1,073 ft, 1,083 to 1,161 ft, 1,166 to 1,170 ft, 1,180 to 1,184 ft, 1,189 to 1,195 ft, 1,205 to 1,244 ft, 1,249 to 1,252 ft, 1,262 to 1,298 ft, 1,328 to 1,342 ft, and 1,417 to 1,427 ft; screen diameter 10 in. from 1,059 to 1,069 ft, 1,073 to 1,083 ft, 1,161 to 1,166 ft, 1,170 to 1,180 ft, 1,184 to 1,189 ft, 1,195 to 1,205 ft, 1,244 to 1,249 ft, 1,252 to 1,262 ft, 1,298 to 1,328 ft, and 1,342 to 1,417 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 192.80 ft above sea level.

Measuring Point: Top of casing, 2.10 ft above land surface.

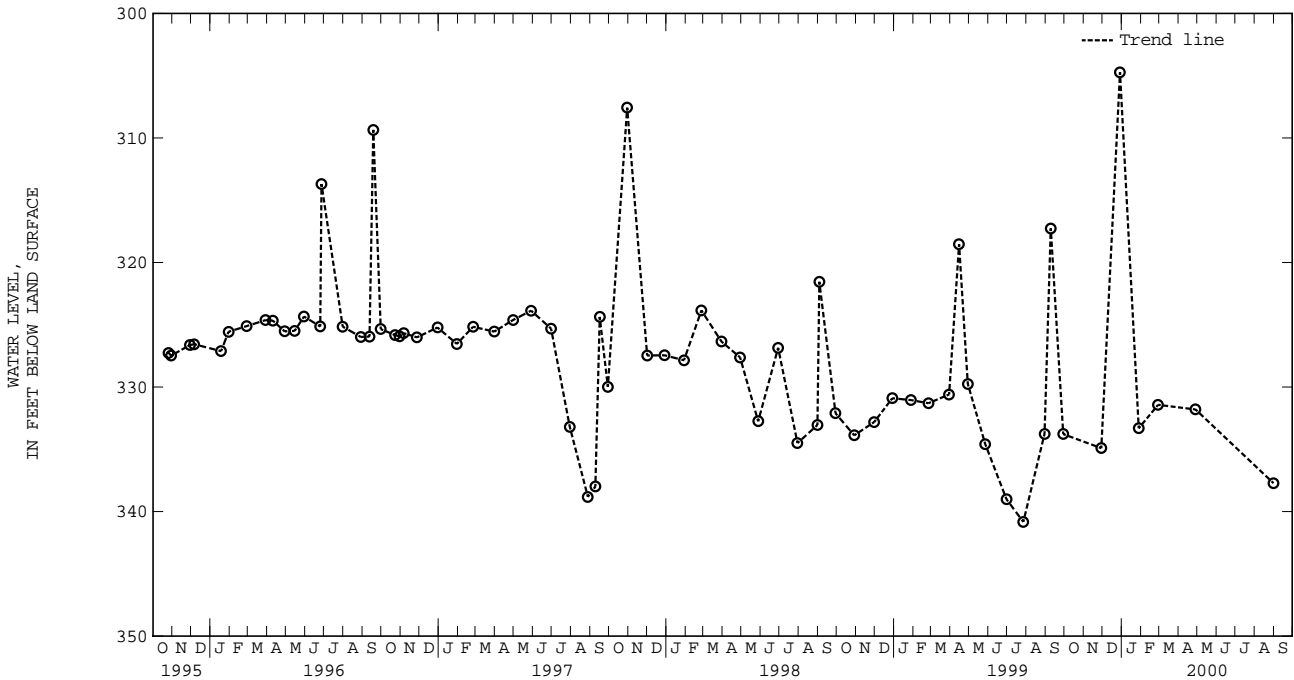
REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--April 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 195.70 ft below land surface, April 4, 1985; lowest measured, 340.83 ft below land surface, July 27, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 29, 1999	334.91	JAN 28, 2000	333.31	APR 28, 2000	331.80
DEC 29	304.72	FEB 28	331.43	AUG 31	337.72
WATER YEAR 2000 HIGHEST 304.72		DEC 29, 1999		LOWEST 337.72 AUG 31, 2000	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CHARLES COUNTY--Continued

WELL NUMBER.--CH Bf 151 . SITE ID.--383508076540703 . PERMIT NUMBER.--CH-81-1265.

LOCATION.--Lat 38°35'08", long 76°54'07", Hydrologic Unit 02070011, 0.3 mi south of the intersection of St. Pauls Dr. and Piney Church Rd., St. Charles.

Owner: U.S. Geological Survey.

AQUIFER.--Upper Patapsco aquifer of the Upper Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 660 ft; casing diameter 6 in., to 399 ft;

casing diameter 4 in. from 399 to 645 ft; screen diameter 4 in. from 645 to 660 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from August 18, 1987 to current year.

DATUM.--Altitude of land surface is 192.8 ft above sea level.

Measuring Point: Top of casing, 2.20 ft above land surface.

REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by nearby pumping. Missing data due to recorder malfunction.

PERIOD OF RECORD.--August 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.39 ft below sea level, March 27, 1988;

lowest measured, 60.93 ft below sea level, July 20, 1999.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	-56.30	-56.44	-54.94	-54.97	---	---	---	---	---	---
2	---	---	-56.34	-56.45	-54.88	-54.94	---	---	---	---	---	---
3	---	---	-56.35	-56.63	---	---	---	---	---	---	---	---
4	---	---	-56.63	-56.73	---	---	-55.93	-55.97	---	---	-54.81	-54.99
5	---	---	-56.72	-56.73	---	---	---	---	---	---	---	---
6	---	---	-56.61	-56.72	-54.44	-54.66	---	---	---	---	---	---
7	---	---	---	---	-54.46	-54.65	---	---	---	---	---	---
8	---	---	---	---	-54.65	-54.68	-55.21	-55.52	---	---	---	---
9	-57.34	-57.47	-56.43	-56.55	-54.59	-54.68	-54.93	-55.21	---	---	-54.90	-55.06
10	---	---	-56.33	-56.43	-54.28	-54.59	-54.65	-54.93	---	---	-54.90	-54.91
11	---	---	-56.33	-56.45	-54.31	-54.57	-54.71	-54.73	-54.18	-54.26	-54.74	-54.92
12	---	---	-56.33	-56.48	-54.55	-54.57	-54.71	-54.79	---	---	-54.69	-54.82
13	---	---	-56.25	-56.33	-54.44	-54.55	---	---	---	---	-54.82	-54.89
14	---	---	-56.14	-56.25	-54.32	-54.44	---	---	-54.02	-54.17	-54.69	-54.88
15	---	---	-56.01	-56.16	-54.34	-54.38	---	---	---	---	-54.49	-54.69
16	---	---	-55.93	-56.01	-54.37	-54.49	-54.00	-54.24	---	---	-54.22	-54.49
17	-56.77	-57.08	-55.93	-55.94	-54.49	-54.51	-54.07	-54.17	---	---	-54.12	-54.27
18	-56.77	-57.04	-55.85	-55.93	-54.50	-54.70	---	---	---	---	-54.22	-54.28
19	-57.04	-57.17	-55.62	-55.85	-54.70	-54.79	-54.32	-54.43	---	---	-54.04	-54.22
20	-57.17	-57.21	-55.52	-55.62	-54.59	-54.79	-54.22	-54.43	---	---	-53.90	-54.05
21	-57.18	-57.19	---	---	-54.60	-54.69	---	---	---	---	-53.71	-53.90
22	-56.70	-57.18	---	---	-54.69	-54.70	---	---	---	---	-53.66	-53.71
23	-56.56	-56.70	---	---	-54.70	-54.77	-53.99	-54.20	---	---	-53.58	-53.68
24	-56.49	-56.56	---	---	-54.73	-54.79	-53.84	-53.99	---	---	-53.48	-53.58
25	-56.32	-56.49	-55.31	-55.32	-54.79	-55.01	-53.59	-53.84	---	---	-53.28	-53.48
26	-56.24	-56.32	---	---	-55.01	-55.16	-53.60	-53.69	---	---	---	---
27	-56.19	-56.24	---	---	-55.16	-55.24	-53.69	-53.82	---	---	---	---
28	-56.15	-56.19	---	---	-55.24	-55.24	-53.82	-54.03	---	---	---	---
29	-56.05	-56.15	---	---	-55.24	-55.51	-54.03	-54.18	---	---	---	---
30	-56.05	-56.19	-54.97	-55.04	-55.50	-55.52	-54.00	-54.19	---	---	---	---
31	-56.19	-56.30	---	---	-55.51	-55.75	---	---	---	---	---	---
MONTH	-56.05	-57.47	-54.97	-56.73	-54.28	-55.75	-53.59	-55.97	-54.02	-54.26	-53.28	-55.06

GROUND-WATER LEVELS IN MARYLAND--Continued

CHARLES COUNTY--Continued

CH Bf 151 --Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	-55.08	-55.11	-55.26	-55.35	---	---	---	---	---	---
2	---	---	-55.08	-55.31	-55.19	-55.26	---	---	---	---	---	---
3	---	---	-55.31	-55.36	-55.11	-55.19	-56.48	-56.54	---	---	---	---
4	-53.26	-53.39	---	---	-55.12	-55.16	-56.54	-56.59	---	---	---	---
5	-53.39	-53.56	---	---	-55.15	-55.18	-56.59	-56.60	---	---	---	---
6	---	---	---	---	-55.18	-55.33	-56.59	-56.60	---	---	---	---
7	---	---	-55.31	-55.33	-55.33	-55.55	-56.59	-56.59	---	---	---	---
8	---	---	-55.31	-55.37	-55.55	-55.60	-56.59	-56.60	---	---	---	---
9	---	---	-55.37	-55.57	-55.60	-55.75	-56.60	-56.64	---	---	---	---
10	-53.93	-54.02	-55.57	-55.75	-55.75	-55.94	-56.64	-56.80	-56.31	-56.34	---	---
11	---	---	---	---	-55.94	-56.06	-56.80	-57.05	---	---	-56.92	-57.04
12	---	---	---	---	-56.06	-56.18	-57.05	-57.21	---	---	---	---
13	---	---	---	---	-56.18	-56.31	-57.21	-57.21	---	---	---	---
14	---	---	-55.92	-55.94	-56.31	-56.53	-57.20	-57.21	-56.48	-56.61	---	---
15	---	---	-55.94	-55.99	-56.52	-56.53	-57.10	-57.20	---	---	---	---
16	---	---	-55.99	-56.02	---	---	---	---	-56.72	-56.91	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	-54.36	-54.49	---	---	---	---	---	---	---	---	-56.59	-56.76
20	-54.37	-54.45	---	---	---	---	---	---	---	---	---	---
21	-54.43	-54.44	-55.98	-55.99	-56.16	-56.26	---	---	---	---	---	---
22	---	---	-55.88	-55.98	-56.03	-56.16	---	---	---	---	---	---
23	---	---	-55.76	-55.88	-56.03	-56.15	---	---	---	---	---	---
24	---	---	-55.41	-55.84	-56.15	-56.28	---	---	-57.25	-57.26	---	---
25	-54.51	-54.56	-55.30	-55.43	-56.28	-56.34	-57.33	-57.34	---	---	---	---
26	-54.51	-54.61	---	---	-56.34	-56.37	-57.29	-57.34	---	---	---	---
27	-54.61	-54.68	---	---	-56.37	-56.50	-57.28	-57.29	-57.33	-57.34	---	---
28	---	---	---	---	-56.48	-56.50	-57.11	-57.28	-57.33	-57.41	---	---
29	-54.95	-55.00	---	---	-56.34	-56.48	-57.00	-57.11	---	---	---	---
30	-55.00	-55.10	---	---	---	---	-56.96	-57.00	---	---	---	---
31	---	---	---	---	---	---	---	---	-57.30	-57.40	---	---
MONTH	-53.26	-55.10	-55.08	-56.02	-55.11	-56.53	-56.48	-57.34	-56.31	-57.41	-56.59	-57.04
YEAR	-53.26	-57.47										

Daily Low Water Levels



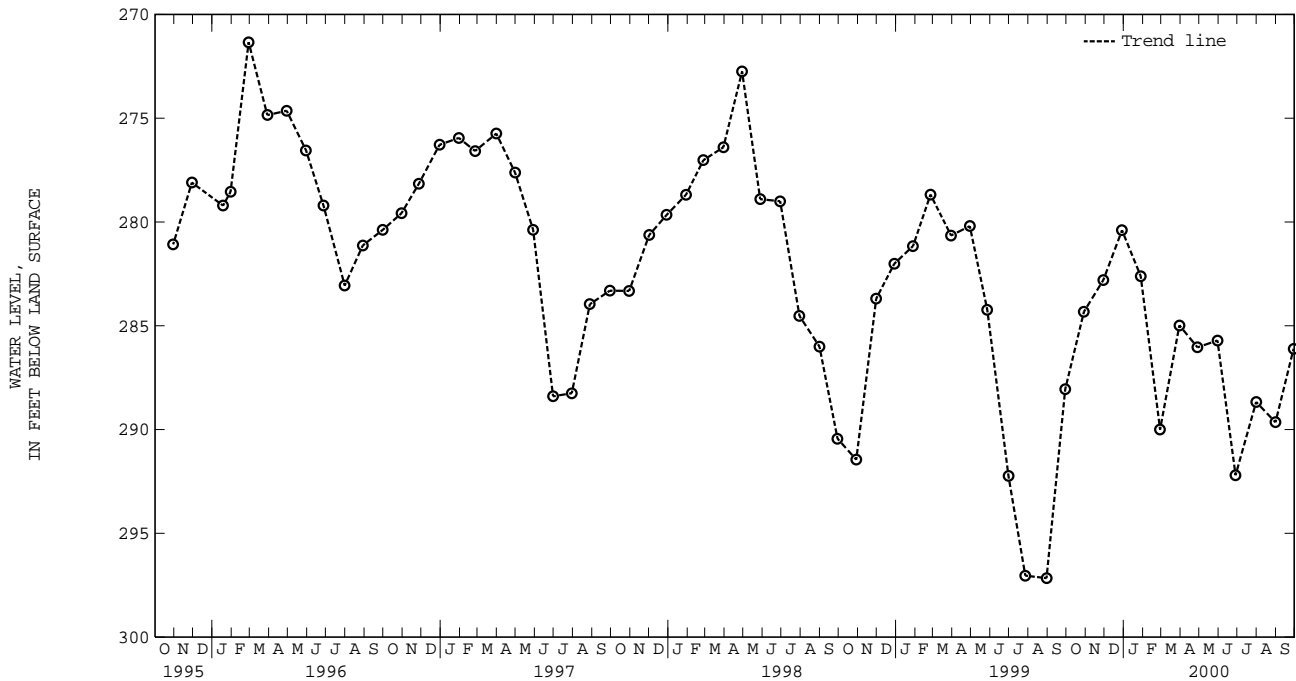
5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CHARLES COUNTY--Continued

WELL NUMBER.--CH Bf 157. SITE ID.--383637076545803. PERMIT NUMBER.--CH-81-1846.
 LOCATION.--Lat 38°36'40", long 76°54'59", Hydrologic Unit 02070011, at St. Charles, Copely Rd. pumping station.
 Owner: U.S. Geological Survey.
 AQUIFER.--Upper Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 623 ft; casing diameter 6 in., to 396 ft; casing diameter 4 in. from 396 to 608 ft; screen diameter 4 in. from 608 to 623 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 225.0 ft above sea level.
 Measuring point: Top of casing, 1.7 ft above land surface.
 REMARKS.--Charles County Water-Level Monitoring Network. Water levels affected are affected by regional ground-water withdrawal.
 PERIOD OF RECORD.--November 1986 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 245.75 ft below land surface, April 29, 1998;
 lowest measured, 297.16 ft below land surface, Aug. 30, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29, 1999	284.32	JAN 28, 2000	282.61	APR 28, 2000	286.04	JUL 31, 2000	288.67
NOV 29	282.80	FEB 28	290.00	MAY 30	285.71	AUG 31	289.65
DEC 29	280.40	MAR 30	284.98	JUN 28	292.20	SEP 29	286.11
WATER YEAR 2000 HIGHEST 280.40 DEC 29, 1999		LOWEST 292.20 JUN 28, 2000					



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

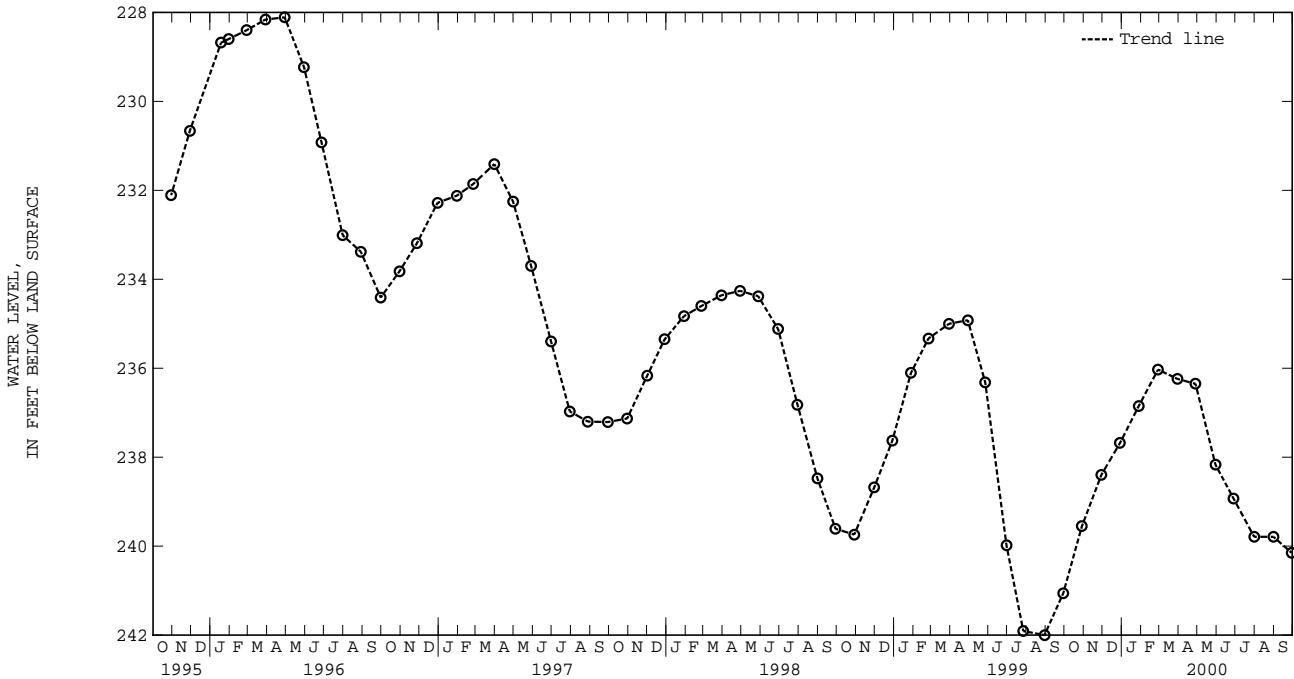
GROUND-WATER LEVELS IN MARYLAND--Continued

CHARLES COUNTY--Continued

WELL NUMBER.--CH Bf 158. SITE ID.--383732076531902. PERMIT NUMBER.--CH-81-1847.
 LOCATION.--Lat 38°37'32", long 76°53'19", Hydrologic Unit 02070011, at John Hansen Middle School pumping station, Waldorf.
 Owner: U.S. Geological Survey.
 AQUIFER.--Upper Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 645 ft; casing diameter 6 in., to 398 ft; casing diameter 4 in. from 398 to 630 ft; screen diameter 4 in. from 630 to 645 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 193 ft above sea level.
 Measuring point: Top of casing, 2.0 ft above land surface.
 REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by regional ground-water withdrawal.
 PERIOD OF RECORD.--April 1986 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 216.70 ft below land surface, April 10, 1987;
 lowest measured, 242.00 ft below land surface, Aug. 30, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29, 1999	239.55	JAN 28, 2000	236.85	APR 28, 2000	236.35	JUL 31, 2000	239.79
NOV 29	238.40	FEB 28	236.03	MAY 30	238.17	AUG 31	239.79
DEC 29	237.68	MAR 30	236.24	JUN 28	238.93	SEP 29	240.15
WATER YEAR 2000 HIGHEST 236.03 FEB 28, 2000		LOWEST 240.15 SEP 29, 2000					



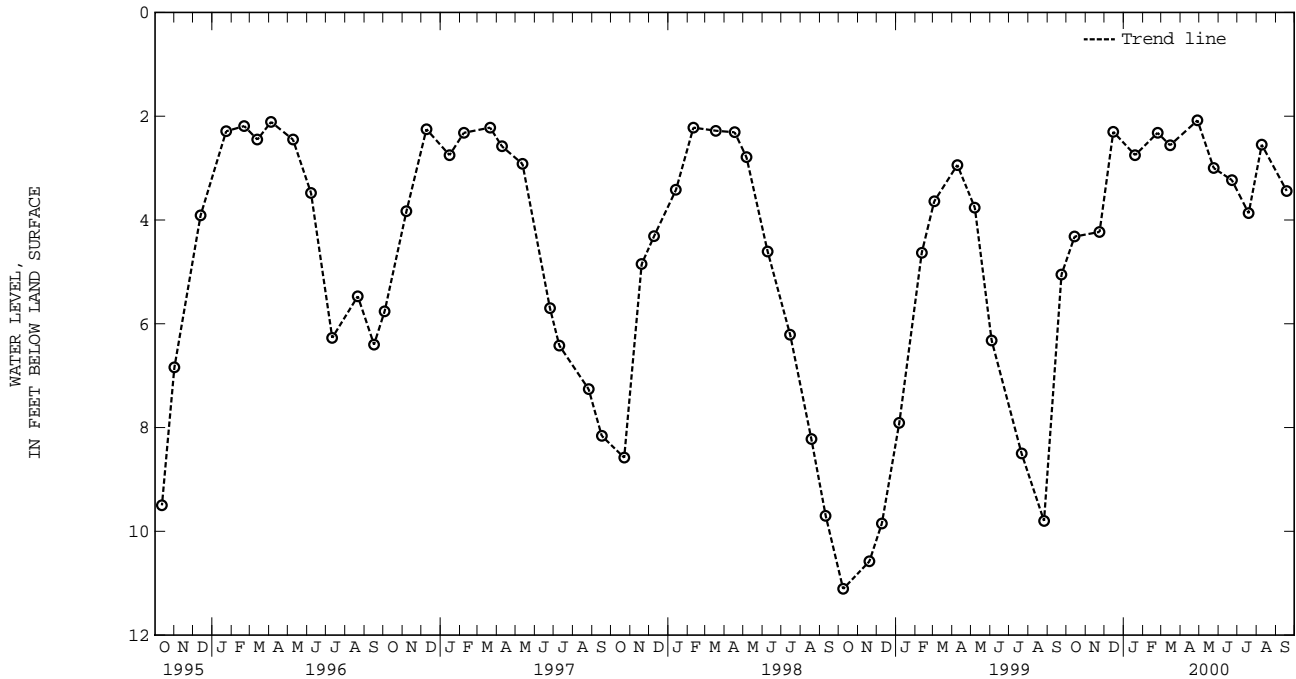
5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CHARLES COUNTY--Continued

WELL NUMBER.--CH Bg 12. SITE ID.--383746076482901. PERMIT NUMBER.--CH-81-0600.
 LOCATION.--Lat 38°37'46", long 76°48'29", Hydrologic Unit 02070011, Cedarville State Forest, near Forest Rd.
 Owner: U.S. Geological Survey.
 AQUIFER.--Calvert Formation of Lower middle Miocene age. Aquifer code: 122CLVR.
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 24.5 ft; casing diameter 4 in., to 13.5 ft;
 casing diameter 2 in. from 13.5 to 18.5 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 149.69 ft above sea level.
 Measuring Point: Top of casing, 2.00 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well.
 PERIOD OF RECORD.--August 1983 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.99 ft below land surface, May 10, 1989, and Feb. 25, 1994;
 lowest measured, 11.11 ft below land surface, Oct. 8, 1998.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14, 1999	4.32	JAN 19, 2000	2.75	APR 28, 2000	2.08	JUL 19, 2000	3.87
NOV 23	4.23	FEB 24	2.32	MAY 24	3.00	AUG 09	2.55
DEC 15	2.30	MAR 15	2.56	JUN 22	3.23	SEP 18	3.44
WATER YEAR 2000 HIGHEST		2.08	APR 28, 2000 LOWEST		4.32	OCT 14, 1999	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CHARLES COUNTY--Continued

WELL NUMBER.--CH Cb 7. SITE ID.--383422077114601. PERMIT NUMBER.--CH-01-1908.

LOCATION.--Lat 38°34'22", long 77°11'46", Hydrologic Unit 02070011, at Caffee and Greenslade Rds., U.S. Naval Ordnance Station, about 2.5 mi southwest of Indian Head.

Owner: U.S. Navy.

AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 167 ft; casing diameter 8 in., to 154 ft; screen diameter 6 in. from 154 to 167 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder Sept. 21, 1953 to July 8, 1965 and digital water-level recorder--60-minute recorder interval, April 28, 1988 to June 20, 2000.

DATUM.--Altitude of land surface is 36.0 ft above sea level.

Measuring point: Top of casing, 1.08 ft above land surface.

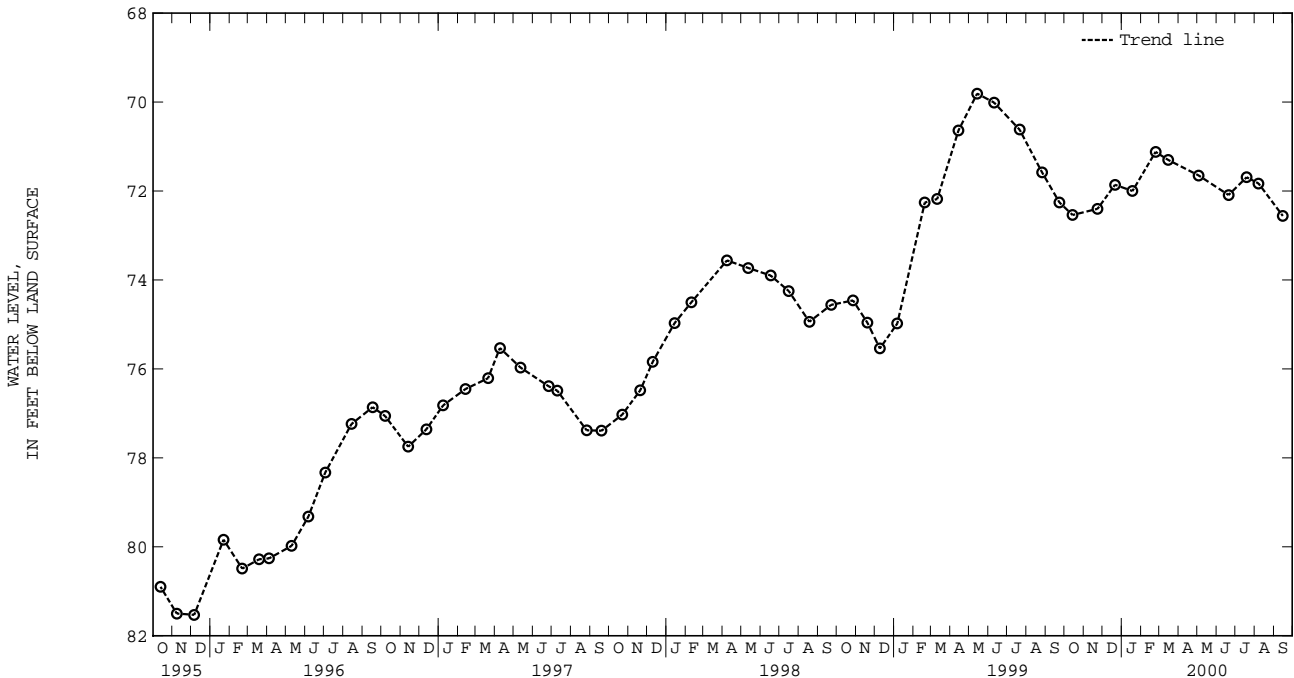
REMARKS.--Maryland Water-Level Network and Indian Head Project observation well. Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--March and April 1952, August 1953 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 57.35 ft below land surface, April 18, 1952; lowest measured, 89.33 ft below land surface, Aug. 12, 14, 1989.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14, 1999	72.54	JAN 18, 2000	72.00	MAY 03, 2000	71.65	AUG 07, 2000	71.83
NOV 23	72.40	FEB 24	71.12	JUN 20	72.09	SEP 15	72.56
DEC 21	71.86	MAR 15	71.30	JUL 19	71.69		
WATER YEAR 2000 HIGHEST		71.12	FEB 24, 2000	LOWEST		72.56	SEP 15, 2000



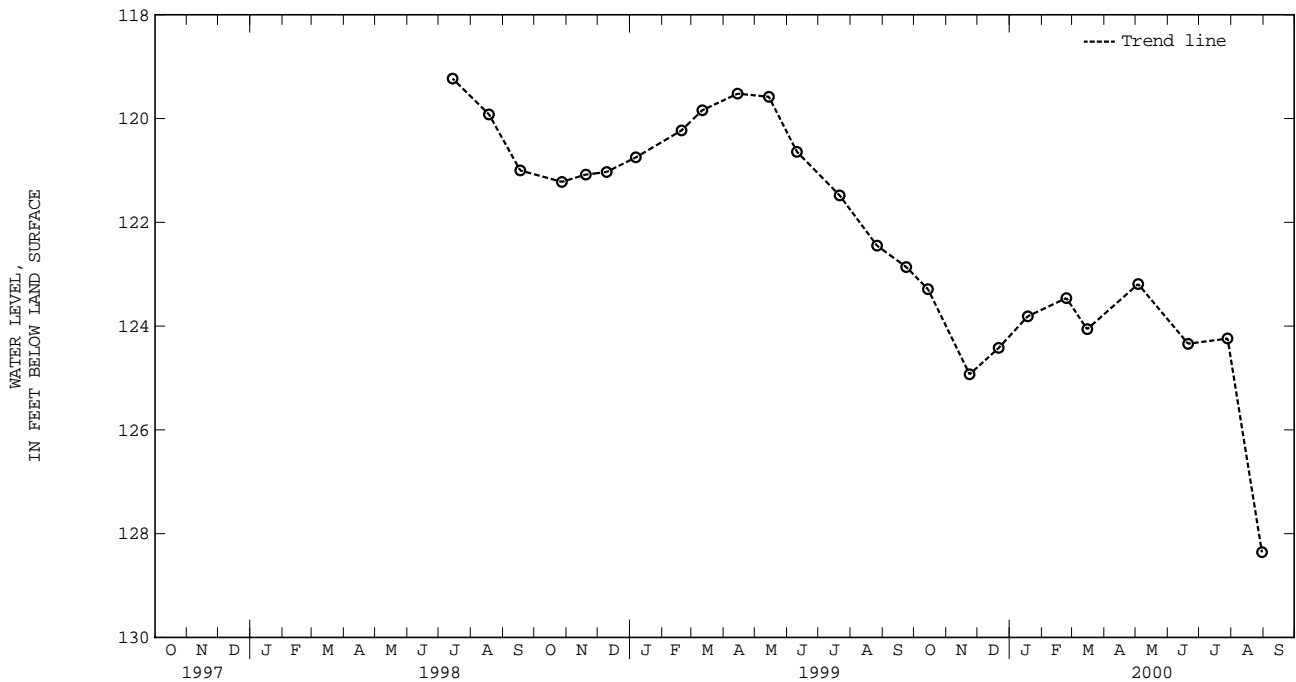
5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CHARLES COUNTY--Continued

WELL NUMBER.--CH Cc 31. SITE ID.--383455077074401. PERMIT NUMBER.--CH-73-1416.
 LOCATION.--Lat 38°34'55", long 77°07'44", Hydrologic Unit 02070011, at Mattawoman Natural Environment Area, approximately 2,000 ft west of the intersection of MD Rts. 224, and 425.
 Owner: Maryland Department of Natural Resources.
 AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 559 ft; casing diameter 6 in., to 200 ft; casing diameter 4 in., from 200 to 438 ft., 453 to 480 ft, 505 to 540 ft, and 554 to 559 ft; screen diameter 4 in. from 438 to 453 ft, 480 to 505 ft, and 540 to 554 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval, Oct. 27, 1998 to June 20, 2000.
 DATUM.--Altitude of land surface is 35.0 ft above sea level. Measuring point: Top of recorder shelf, 3.75 ft above land surface.
 REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by local ground-water withdrawal.
 PERIOD OF RECORD.--July 1998 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 119.23 ft below land surface, July 14,1998; lowest measured, 129.29 ft below land surface, Oct. 14, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14, 1999	123.29	JAN 18, 2000	123.81	MAY 03, 2000	123.19	AUG 30, 2000	128.36
NOV 23	124.93	FEB 24	123.46	JUN 20	124.34		
DEC 21	124.42	MAR 15	124.06	JUL 28	124.24		
WATER YEAR 2000 HIGHEST 123.19		MAY 03, 2000		LOWEST 128.36		AUG 30, 2000	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CHARLES COUNTY--Continued

WELL NUMBER.--CH Cc 34. SITE ID.--383441077063901. PERMIT NUMBER.--CH-94-0897.
 LOCATION.--Lat 38°34'41", long 77°06'39", Hydrologic Unit 02070011, at Mattawoman Water Treatment Plant.
 Owner: Maryland Geological Survey.
 AQUIFER.--Upper Patuxent aquifer of the Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 975 ft; casing diameter 4 in., to 874 ft, 884 to 945 ft, and 965 to 975 ft; screen diameter 4 in. from 874 to 884 ft, and 945 to 955 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey and Maryland Geological Survey personnel.
 Equipped with digital water-level recorder--60-minute recorder interval, Aug. 28, 1996 to current year.
 DATUM.--Elevation of land surface is 41.82 ft above sea level.
 Measuring Point: Top of recorder shelf, 3.0 ft above land surface.
 REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by regional ground-water withdrawal.
 Missing data due to recorder malfunction. Pump test occurred on Sept. 21, 1999 at a nearby production well.
 PERIOD OF RECORD.--August 1996 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.80 ft below sea level, Oct. 8, 1996;
 lowest measured, 25.75 ft below sea level, September 29, 1999.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

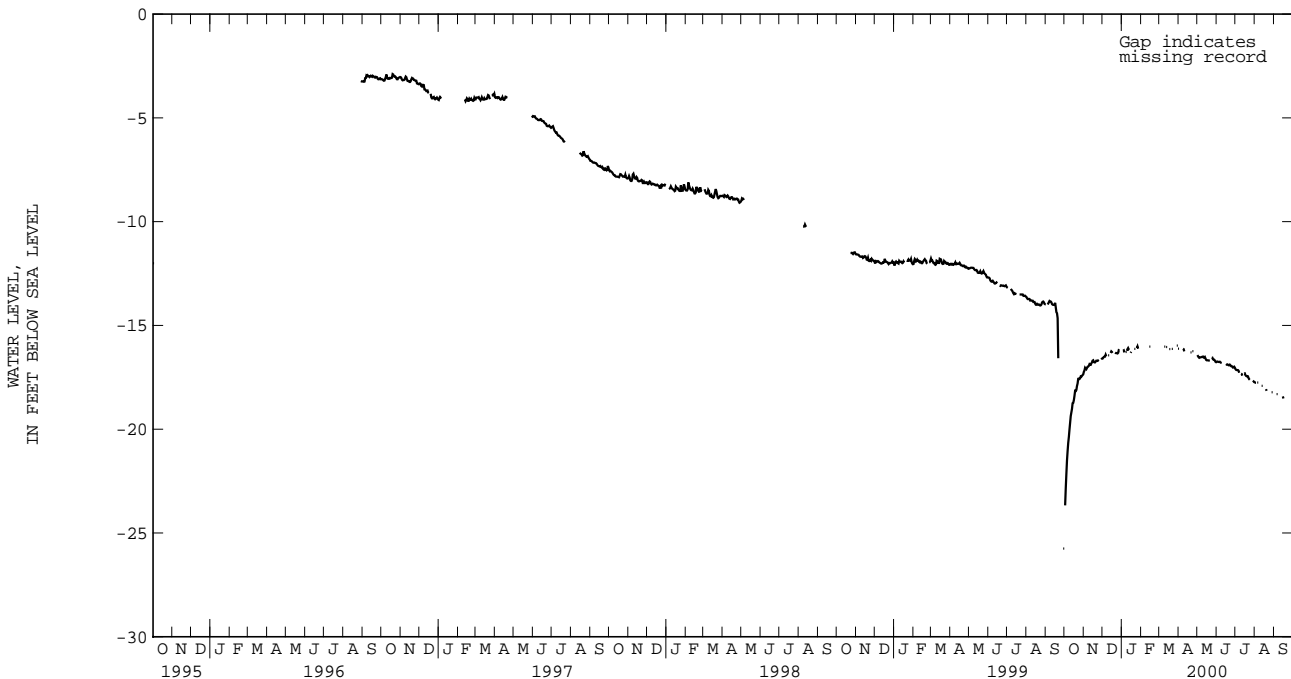
DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	-17.17	-17.24	-16.55	-16.60	---	---	---	---	---	---
2	-22.86	-23.67	-16.87	-17.17	-16.52	-16.56	---	---	---	---	---	---
3	-22.17	-22.86	-16.91	-17.04	-16.49	-16.52	-16.20	-16.22	---	---	---	---
4	-21.50	-22.17	-17.04	-17.08	-16.48	-16.50	-16.07	-16.20	---	---	---	---
5	-21.05	-21.50	-17.05	-17.11	-16.41	-16.50	-16.08	-16.30	---	---	---	---
6	-20.66	-21.05	-16.96	-17.05	-16.33	-16.41	---	---	---	---	---	---
7	-20.37	-20.66	-16.97	-16.99	-16.36	-16.48	-16.21	-16.28	---	---	---	---
8	-20.02	-20.37	-16.95	-16.98	---	---	---	---	---	---	---	---
9	-19.69	-20.02	-16.86	-16.95	---	---	-16.14	-16.22	---	---	-15.95	-16.02
10	-19.37	-19.69	-16.81	-16.87	-16.28	-16.44	-15.96	-16.14	---	---	---	---
11	-19.19	-19.37	-16.81	-16.90	---	---	-16.00	-16.09	---	---	---	---
12	-19.02	-19.19	-16.83	-16.90	---	---	-16.09	-16.16	---	---	-15.91	-16.04
13	-18.75	-19.02	-16.78	-16.83	---	---	-16.00	-16.18	---	---	---	---
14	-18.73	-18.75	-16.64	-16.78	-16.18	-16.32	---	---	-15.90	-16.02	---	---
15	-18.60	-18.73	-16.67	-16.70	-16.21	-16.25	-16.27	-16.32	---	---	---	---
16	-18.40	-18.60	-16.65	-16.68	-16.22	-16.28	-16.10	-16.27	---	---	---	---
17	-18.15	-18.40	-16.68	-16.76	-16.28	-16.32	---	---	---	---	-15.91	-16.14
18	-18.10	-18.15	-16.76	-16.78	---	---	---	---	---	---	---	---
19	-18.11	-18.16	-16.74	-16.78	---	---	---	---	---	---	---	---
20	-17.92	-18.11	-16.68	-16.74	---	---	---	---	---	---	---	---
21	-17.80	-17.92	-16.67	-16.70	-16.26	-16.31	-16.04	-16.13	---	---	-15.99	-16.13
22	-17.57	-17.80	-16.69	-16.71	-16.30	-16.33	---	---	---	---	---	---
23	-17.54	-17.57	-16.68	-16.71	-16.27	-16.33	---	---	---	---	---	---
24	-17.55	-17.56	-16.65	-16.68	-16.29	-16.34	---	---	---	---	---	---
25	-17.55	-17.58	-16.61	-16.66	-16.32	-16.35	-15.85	-16.08	---	---	---	---
26	-17.45	-17.55	---	---	-16.13	-16.32	-15.89	-16.01	---	---	---	---
27	-17.45	-17.46	---	---	-16.16	-16.19	-16.01	-16.12	---	---	---	---
28	-17.43	-17.47	---	---	-16.14	-16.20	---	---	---	---	---	---
29	-17.39	-17.43	-16.54	-16.56	---	---	---	---	---	---	-15.82	-15.97
30	-17.36	-17.39	-16.56	-16.60	---	---	---	---	---	---	---	---
31	-17.24	-17.36	---	---	---	---	---	---	---	---	-16.03	-16.12
MONTH	-17.24	-23.67	-16.54	-17.24	-16.13	-16.60	-15.85	-16.32	-15.90	-16.02	-15.82	-16.14

CHARLES COUNTY--Continued

CH Cc 34--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	-16.36	-16.43	-16.73	-16.75	-17.03	-17.10	-17.73	-17.74	---	---
2	---	---	-16.36	-16.48	-16.69	-16.74	-17.10	-17.14	-17.74	-17.76	---	---
3	---	---	-16.48	-16.53	-16.69	-16.75	-17.14	-17.15	-17.75	-17.76	---	---
4	---	---	-16.53	-16.56	-16.75	-16.76	-17.14	-17.15	---	---	---	---
5	---	---	-16.52	-16.54	-16.75	-16.76	-17.14	-17.15	-17.70	-17.75	-18.21	-18.31
6	---	---	-16.52	-16.54	-16.69	-16.75	-17.15	-17.18	---	---	---	---
7	---	---	-16.52	-16.53	-16.72	-16.78	-17.18	-17.28	---	---	---	---
8	-16.04	-16.12	-16.51	-16.52	-16.78	-16.80	---	---	---	---	---	---
9	-16.04	-16.14	-16.49	-16.51	-16.80	-16.81	---	---	---	---	---	---
10	-16.14	-16.25	-16.48	-16.50	---	---	-17.31	-17.33	---	---	---	---
11	---	---	-16.50	-16.55	---	---	-17.31	-17.34	---	---	---	---
12	---	---	-16.50	-16.55	---	---	-17.34	-17.42	-17.87	-17.91	---	---
13	---	---	-16.50	-16.52	---	---	---	---	---	---	---	---
14	---	---	-16.52	-16.59	---	---	---	---	---	---	---	---
15	---	---	-16.59	-16.66	---	---	-17.15	-17.32	---	---	-18.39	-18.42
16	---	---	-16.65	-16.68	-16.85	-16.86	-17.22	-17.31	---	---	-18.42	-18.52
17	---	---	-16.67	-16.68	-16.86	-16.89	-17.31	-17.39	---	---	---	---
18	---	---	-16.64	-16.68	-16.88	-16.88	-17.39	-17.43	---	---	---	---
19	---	---	-16.64	-16.69	-16.88	-16.89	-17.43	-17.45	-18.03	-18.07	---	---
20	-16.27	-16.30	-16.67	-16.69	-16.89	-16.92	-17.41	-17.44	-18.07	-18.15	---	---
21	---	---	-16.68	-16.69	-16.89	-16.92	-17.43	-17.45	---	---	---	---
22	---	---	---	---	-16.87	-16.89	-17.45	-17.53	---	---	---	---
23	-16.18	-16.24	---	---	-16.87	-16.92	-17.53	-17.59	---	---	---	---
24	---	---	-16.50	-16.54	-16.92	-16.96	-17.59	-17.62	---	---	---	---
25	---	---	-16.50	-16.55	-16.96	-16.96	---	---	---	---	---	---
26	---	---	-16.55	-16.63	-16.96	-16.99	---	---	---	---	---	---
27	---	---	-16.63	-16.65	-16.99	-17.03	---	---	---	---	---	---
28	---	---	-16.61	-16.65	-16.99	-17.02	---	---	-18.18	-18.22	---	---
29	---	---	-16.62	-16.69	-16.96	-16.99	-17.65	-17.66	---	---	---	---
30	---	---	-16.69	-16.75	-16.97	-17.03	-17.66	-17.69	---	---	---	---
31	---	---	-16.75	-16.77	---	---	-17.69	-17.73	---	---	---	---
MONTH	-16.04	-16.30	-16.36	-16.77	-16.69	-17.03	-17.03	-17.73	-17.70	-18.22	-18.21	-18.52
YEAR	-15.82	-23.67										



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CHARLES COUNTY--Continued

WELL NUMBER.--CH Ce 37. SITE ID.--383236076563901. PERMIT NUMBER.--CH-73-0219.

LOCATION.--Lat 38°32'36", long 76°56'39", Hydrologic Unit 02070011, at LaPlata Water Treatment Plant, 2.0 mi. northeast of La Plata.

Owner: U.S. Geological Survey.

AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 1340 ft; casing diameter 6 in., to 300 ft; casing diameter 4 in. from 300 to 1,174 ft, 1,184 to 1,250 ft, and 1,260 to 1,330 ft; screen diameter 4 in. from 1,174 to 1,184 ft, 1,250 to 1,260 ft, and 1,330 to 1,340 ft.

INSTRUMENTATION.--Periodic measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder from Nov. 23, 1973 to Dec. 10, 1975. Equipped with digital water-level recorder--15-minute recorder interval from July 12, 1976 to October 1998.

DATUM.--Altitude of land surface is 184.95 ft above sea level.

Measuring Point: Top of casing, 3.62 ft above land surface.

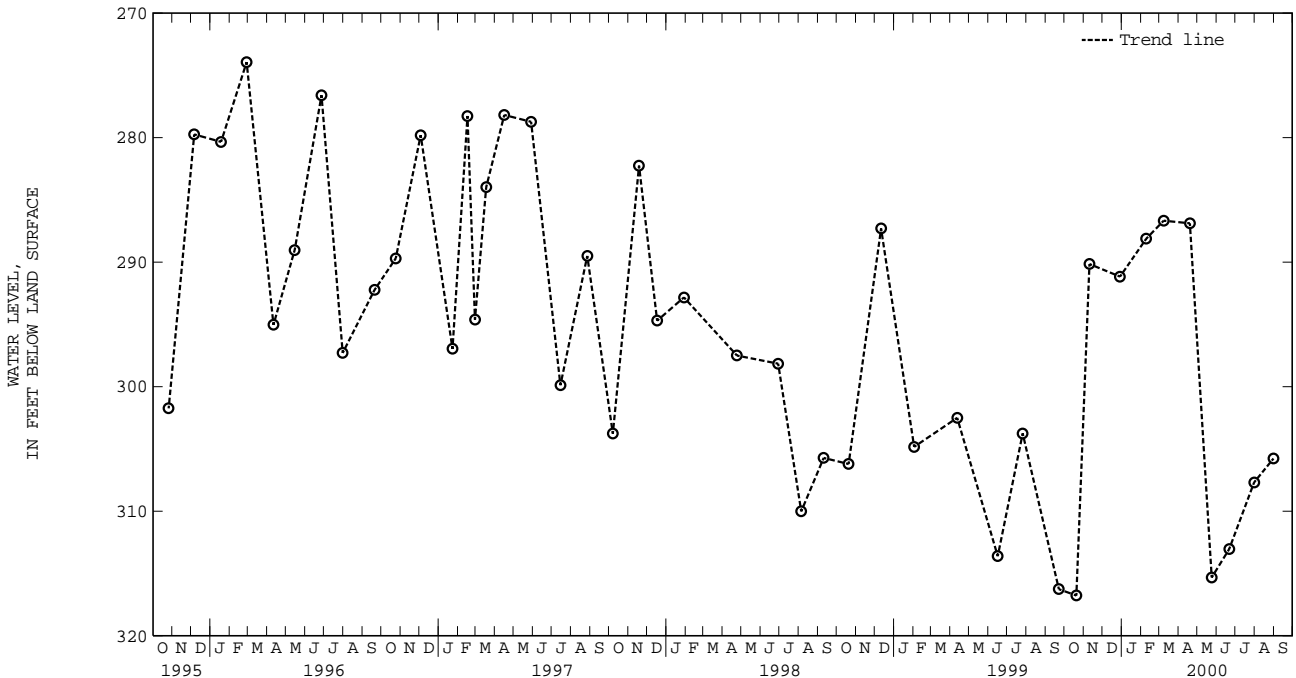
REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by regional ground-water withdrawal.

PERIOD OF RECORD.--November 1973 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 185.14 ft below land surface, Nov. 5, 1973; lowest measured, 317.40 ft below land surface, Sept. 21, 1997.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20, 1999	316.77	FEB 09, 2000	288.12	MAY 24, 2000	315.32	AUG 31, 2000	305.77
NOV 10	290.15	MAR 08	286.67	JUN 21	313.04		
DEC 29	291.16	APR 19	286.88	JUL 31	307.68		
WATER YEAR 2000 HIGHEST		286.67	MAR 08, 2000		LOWEST		315.32
							MAY 24, 2000



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CHARLES COUNTY--Continued

WELL NUMBER.--CH Ce 56. SITE ID.--383251076583901. PERMIT NUMBER.--CH-94-1111

LOCATION.--Lat 38°32'51", long 76°58'39", Hydrologic Unit 02070011, Heritage Green, LaPlata.

Owner: Town of La Plata.

AQUIFER.--Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 1,268 ft; casing diameter 6 in., to 475 ft; 4 in., from 475 to 896 ft, 906 to 945 ft, 950 to 957 ft, 962 to 993 ft, 1,008 to 1,024 ft, 1,029 to 1,037 ft, 1,042 to 1,094 ft, 1,134 to 1,166 ft, 1,186 to 1,204 ft, 1,214 to 1,248 ft and 1,258 to 1,268ft;

Screen diameter 4 in. from 896 to 906 ft, 945 to 950 ft, 957 to 962 ft, 993 to 1,008 ft, 1,024 to 1,029 ft, 1,037 to 1,042 ft, 1,094 to 1,134 ft, 1,166 to 1,186 ft, 1,204 to 1,214 ft and 1,248 to 1,258 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--15-minute recorder interval, Aug. 28, 1997 To current year.

DATUM.--Elevation of land surface is 196.48 ft above sea level.

Measuring point: Top of recorder platform 2.85 ft above land surface.

REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by local ground-water withdrawal.

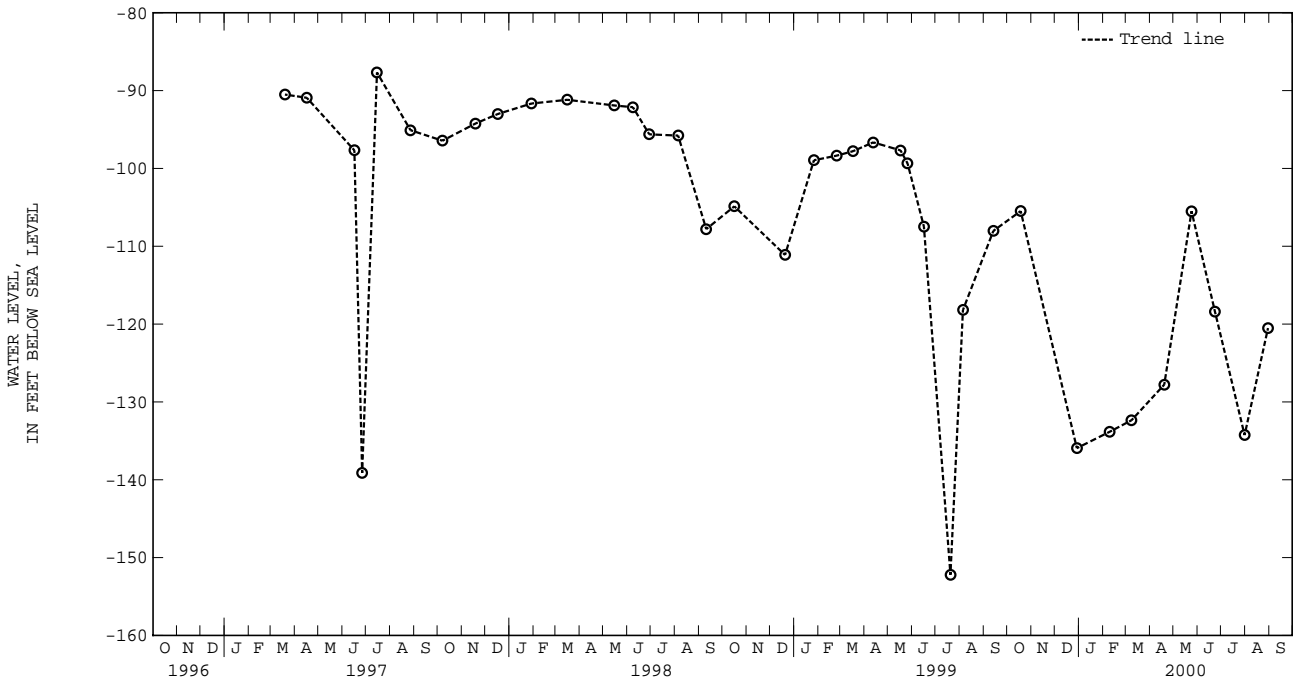
PERIOD OF RECORD.--March 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 87.67 ft below sea level, July 15, 1997; lowest measured, 152.20 ft below sea level, July 20, 1999.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 1999	105.48	MAR 08, 2000	132.36	JUN 23, 2000	118.40
DEC 29	135.94	APR 19	127.78	JUL 31	134.26
FEB 09, 2000	133.84	MAY 24	105.50	AUG 30	120.51

WATER YEAR 2000 HIGHEST 134.26 JUL 31, 2000 LOWEST 105.50 MAY 24, 2000



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CHARLES COUNTY--Continued

WELL NUMBER.--CH Ce 57. SITE ID.--383250076584001. PERMIT NUMBER.--CH-94-1112

LOCATION.--Lat 38°32'50", long 76°58'40", Hydrologic Unit 02070011, Heritage Green, LaPlata.

Owner: Town of La Plata.

AQUIFER.--Patuxent formation of Lower Cretaceous. Aquifer code: 217PTXN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 1,703 ft; casing diameter 6 in., to 400 ft; 4 in from 400 to 1,406 ft, 1,421 to 1,500 ft, 1,515 to 1,668 ft and 1,698 to 1,703 ft. Screen diameter 4 in. from 1,406 to 1,421 ft, 1,500 to 1,515 ft and 1,668 to 1,698 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval, March 18, 1997 to July 1998.

DATUM.--Elevation of land surface is 193.47 ft above sea level.

Measuring point: Top of recorder platform 5.0 ft above land surface.

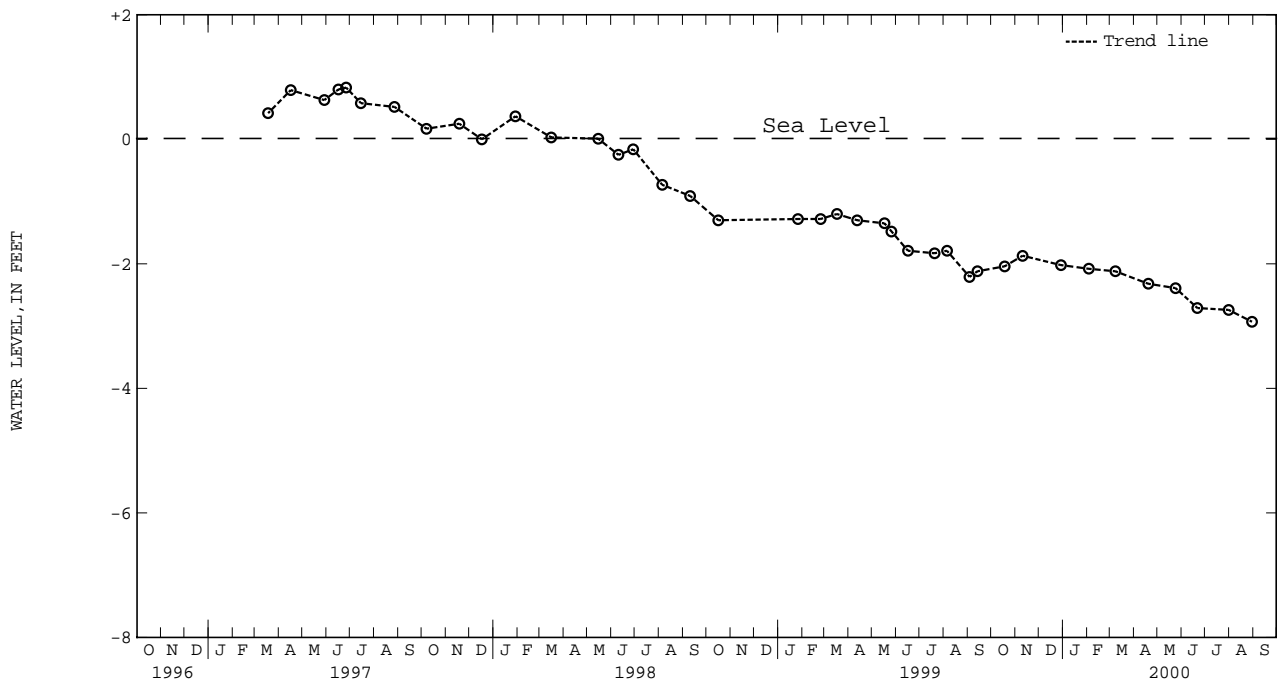
REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--March 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.13 ft above sea level, May 1, 1997;
lowest measured, 2.21 ft below sea level, Sept. 3, 1999.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 1999	-2.04	FEB 03, 2000	-2.08	MAY 24, 2000	-2.39	AUG 30, 2000	-2.93
NOV 10	-1.87	MAR 08	-2.12	JUN 21	-2.71		
DEC 29	-2.02	APR 19	-2.32	JUL 31	-2.74		
WATER YEAR 2000 HIGHEST		-2.08 FEB 03, 2000	LOWEST		-2.93 AUG 30, 2000		



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CHARLES COUNTY--Continued

WELL NUMBER.--CH Da 18. SITE ID.--382654077152501.

LOCATION.--Lat 38°26'54", long 77°15'25", Hydrologic Unit 02070011, nr. Douglas Point.

Owner: Potomac Edison Power Company.

AQUIFER.--Upper Patuxent aquifer of the Patuxent Formation of lower Cretaceous age. Aquifer code: 217PTXN.

WELL CHARACTERISTICS.--Drilled observation, artesian well, depth 740 ft; casing diameter 8 in., to 684 ft; and 694 to 730 ft; screen diameter 8 in. from 684 to 694 ft, and 730 to 740 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Twice yearly measurements from September 1976 to April 1996. Equipped with digital water-level recorder--60-minute recorder interval, April 3, 1996 to June 3, 1998.

DATUM.--Elevation of land surface is 89.90 ft above sea level, from topographic map.

Measuring point: Top of recorder shelf, 3.10 ft above land surface.

REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by regional ground-water withdrawal.

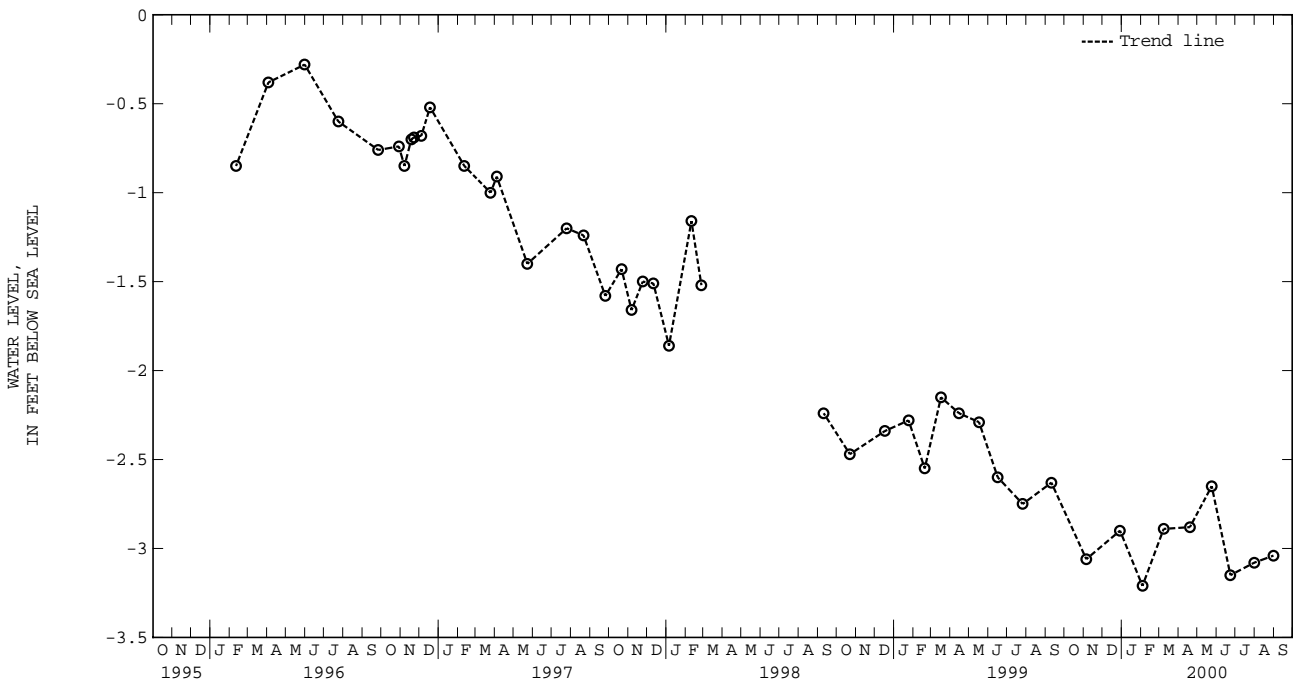
PERIOD OF RECORD.--September 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.89 ft above sea level, Sept. 21, 1976; lowest measured, 2.65 ft below sea level, July 26, 1999.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 05, 1999	-3.06	MAR 08, 2000	-2.89	JUN 23, 2000	-3.15
DEC 29	-2.90	APR 19	-2.88	JUL 31	-3.08
FEB 03, 2000	-3.21	MAY 24	-2.65	AUG 31	-3.04

WATER YEAR 2000 HIGHEST -2.65 MAY 24, 2000 LOWEST -3.21 FEB 03, 2000



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CHARLES COUNTY--Continued

WELL NUMBER.--CH Da 20. SITE ID.--382654077152701.

LOCATION.--Lat 38°26'54", long 77°15'27", Hydrologic Unit 02070011, Douglas Point.

Owner: Potomac Edison Power Company.

AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PSCL.

WELL CHARACTERISTICS.--Drilled observation, artesian well, depth 522 ft; casing diameter 6 in., to 420 ft; 425 to 444 ft;

449 to 481 ft, and 486 to 517 ft; screen diameter 6 in. from 420 to 425 ft, 444 to 449 ft, 481 to 486 ft, and 517 to 522 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 90 ft above sea level, from topographic map.

Measuring point: Top of recorder platform, 2.0 ft above land surface.

REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by local ground-water withdrawal.

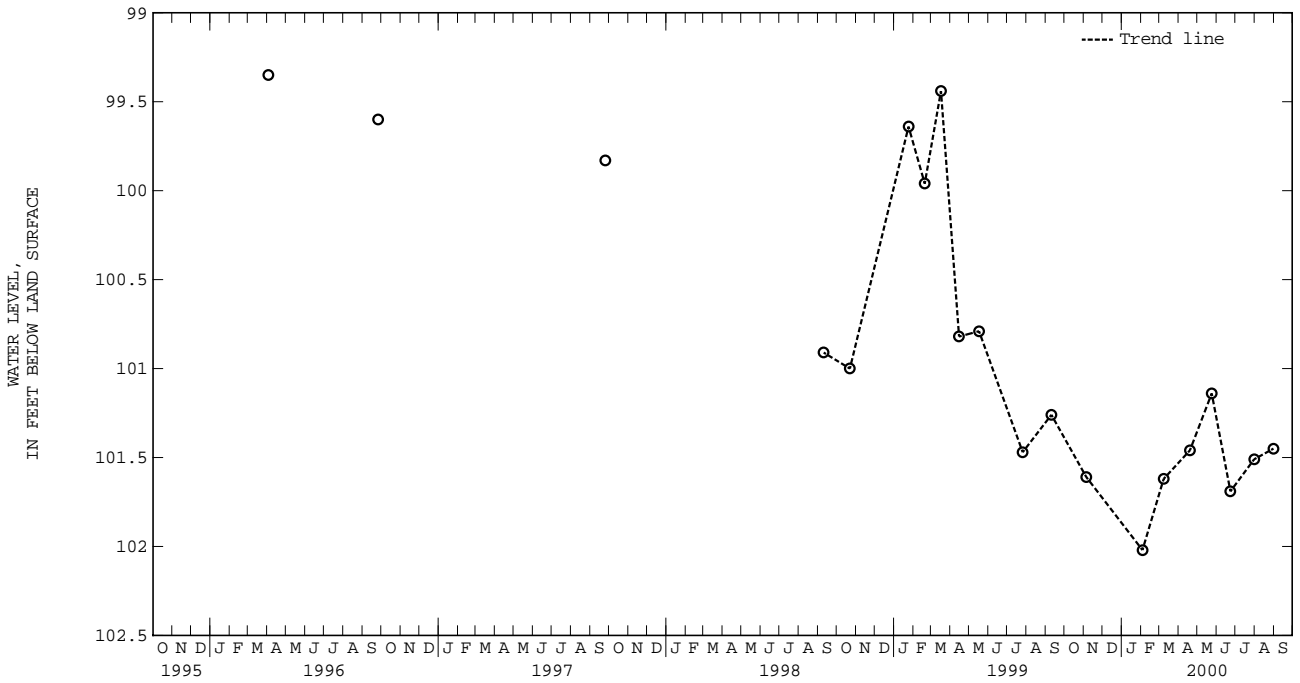
PERIOD OF RECORD.--September 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 68.00 ft below land surface, Sept. 21, 1976;

lowest measured, 102.02 ft below land surface, Feb. 3, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 05, 1999	101.61	MAR 08, 2000	101.62	MAY 24, 2000	101.14	JUL 31, 2000	101.51
FEB 03, 2000	102.02	APR 19	101.46	JUN 23	101.69	AUG 31	101.45
WATER YEAR 2000 HIGHEST 101.14		MAY 24, 2000		LOWEST 102.02		FEB 03, 2000	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

CHARLES COUNTY--Continued

WELL NUMBER.--CH Dd 38. SITE ID.--382925077010101. PERMIT NUMBER.--CH-81-0358.

LOCATION.--Lat 38°29'25", long 77°01'01", Hydrologic Unit 02070011, 0.8 mi south of Port Tobacco.

Owner: A. Bridgett.

AQUIFER.--Upper Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.

WELL CHARACTERISTICS.--Drilled, domestic, artesian well, depth 597 ft; casing diameter 4 in., to 297 ft; casing diameter 2 in. from 297 to 429 ft, 434 to 575 ft, 580 to 585 ft, and 590 to 597 ft; screen diameter 2 in. from 429 to 434 ft, 575 to 580 ft, and 585 to 590 ft.

INSTRUMENTATION.--Monthly measurements from April 1993 to Dec. 1999. Twice yearly measurements April 2000 with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 60 ft above sea level.

Measuring Point: Top of casing, 1.0 ft above land surface.

REMARKS.--Charles County Water-Level Monitoring Network. Water levels are affected by local and regional ground-water withdrawal.

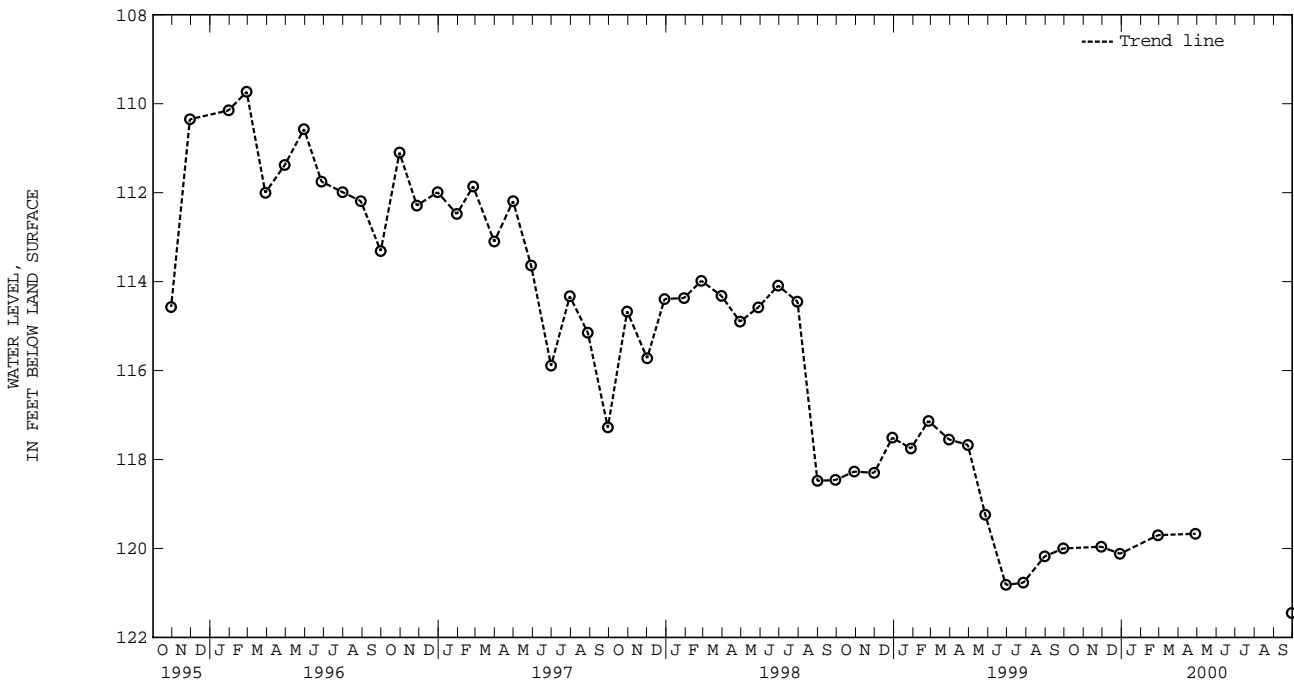
PERIOD OF RECORD.--April 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 102.97 ft below land surface, May 5, 1993; lowest measured, 121.45 ft below land surface, Sept. 29, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 29, 1999	119.96	FEB 28, 2000	119.70	SEP 29, 2000	121.45
DEC 29	120.12	APR 28	119.67		

WATER YEAR 2000 HIGHEST 119.67 APR 28, 2000 LOWEST 121.45 SEP 29, 2000



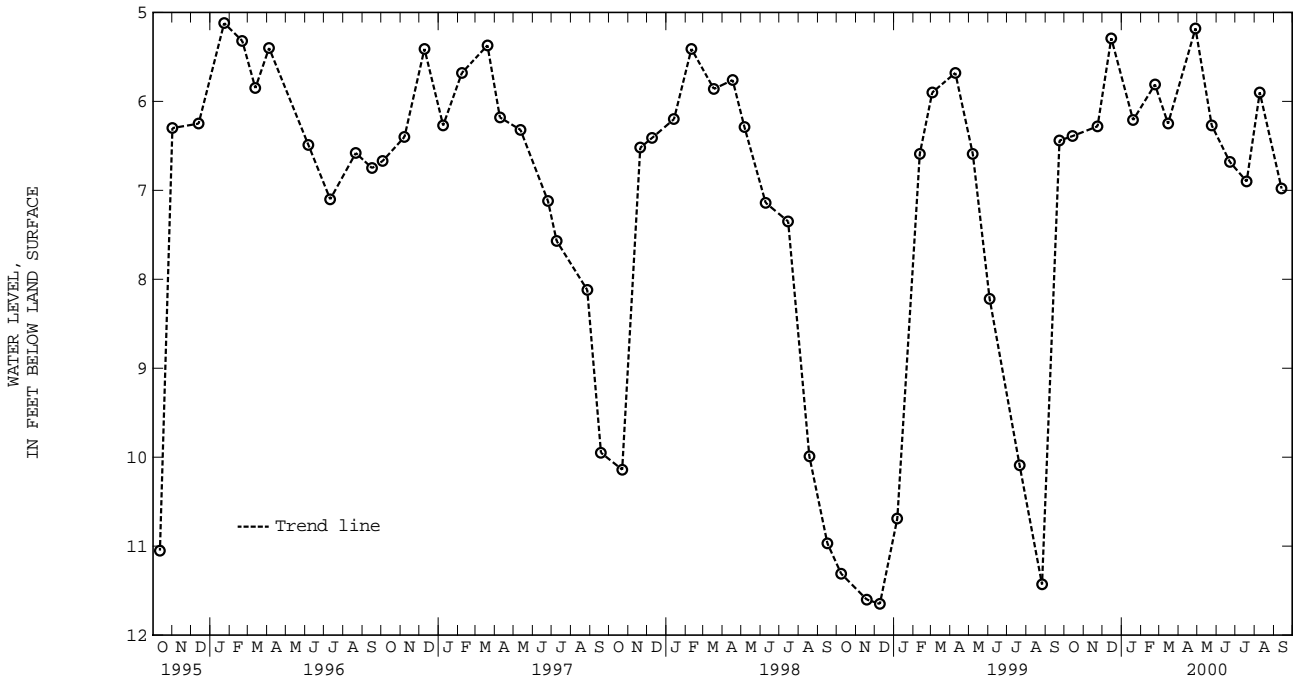
5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CHARLES COUNTY--Continued

WELL NUMBER.--CH De 45. SITE ID.--382927076552301. PERMIT NUMBER.--CH-81-0604.
 LOCATION.--Lat 38°29'27", long 76°55'23", Hydrologic Unit 02070011, north side of MD Rt. 6, 4.1 mi southeast of La Plata.
 Owner: U.S. Geological Survey.
 AQUIFER.--Alluvium of Pleistocene age and Nanjemoy Formation of Lower Eocene age. Aquifer codes: 112ALVM, 124NNJM.
 WELL CHARACTERISTICS.--Drilled, observation, water-table well; depth 25.5 ft; casing diameter 4 in., to 15.5 ft, casing diameter 2 in. from 20.5 to 25.5 ft; screen diameter 2 in. from 15.5 to 20.5 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 44.77 ft above sea level.
 Measuring Point: Top of casing, 2.35 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well.
 PERIOD OF RECORD.--August 1983 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.83 ft below land surface, May 30, 1990;
 lowest measured, 11.65 ft below land surface, Dec. 9, 1998.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14, 1999	6.39	JAN 19, 2000	6.21	APR 28, 2000	5.18	JUL 19, 2000	6.90
NOV 23	6.28	FEB 23	5.81	MAY 24	6.27	AUG 09	5.90
DEC 15	5.29	MAR 15	6.25	JUN 22	6.68	SEP 13	6.98
WATER YEAR 2000 HIGHEST		5.18	APR 28, 2000		LOWEST		6.98
				SEP 13, 2000			



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CHARLES COUNTY--Continued

WELL NUMBER.--CH Ee 16. SITE ID.--382103076560201.

LOCATION.--Lat 38°21'03", long 76°56'02", Hydrologic Unit 02070010, near Wayside.

Owner: Harry Ferris.

AQUIFER.--Ravens Crest Formation of Upper Pliocene age. Aquifer code: 112TLBT.

WELL CHARACTERISTICS.--Dug, unused, water-table well, measured depth 20.7 ft; casing diameter 42 in.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with water-level recorder from March 29, 1966 to Oct. 11, 1967.

DATUM.--Elevation of land surface is 40 ft above sea level, from topographic map.

Measuring point: Top of casing, 1.80 ft above land surface.

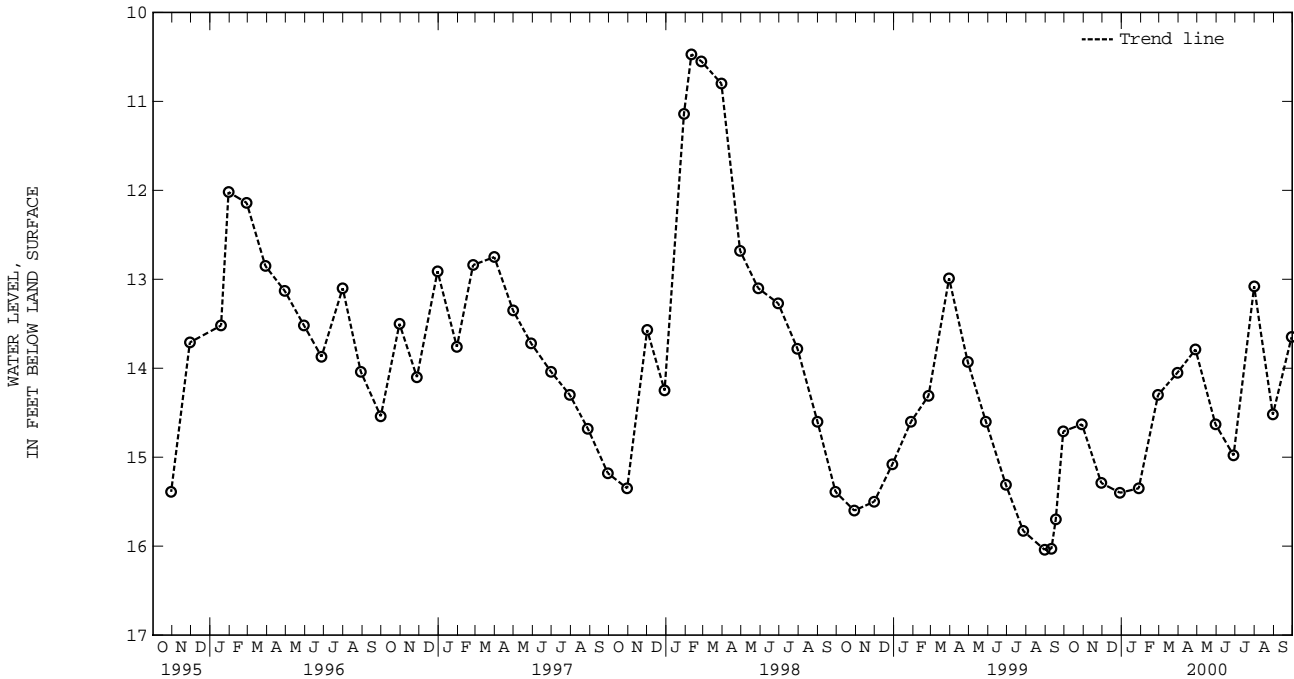
REMARKS.--Maryland Water-Level Network observation well and Maryland Water Quality Network observation well.

PERIOD OF RECORD.--May 1946, January 1947 to November 1947, March 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.41 ft below land surface, March 30, 1994; lowest measured, 20.65 ft below land surface, Dec. 20, 1949.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29, 1999	14.63	JAN 28, 2000	15.35	APR 28, 2000	13.79	JUL 31, 2000	13.08
NOV 29	15.29	FEB 28	14.30	MAY 30	14.63	AUG 30	14.52
DEC 29	15.40	MAR 30	14.05	JUN 28	14.98	SEP 29	13.65
WATER YEAR 2000 HIGHEST		13.08	JUL 31, 2000		LOWEST		15.40
						DEC 29, 1999	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CHARLES COUNTY--Continued

WELL NUMBER.--CH Ee 70. SITE ID.--382154076574801. PERMIT NUMBER.--CH-67-0081.

LOCATION.--Lat 38°21'54", Long 76°57'48", Hydrologic Unit 02070011, at the Morgantown Power Plant, 1.5 mi. north of Morgantown.
Owner: Potomac Electric Power Co.

AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 1,132 ft; casing diameter 2 in., to 1,090 ft, 1,100 to 1,105 ft, and 1,115 to 1,132 ft; screen diameter 2 in. from 1,090 to 1,100 ft, and 1,105 to 1,115 ft.

INSTRUMENTATION.--Periodic measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder from May 12, 1982 to Jan. 6, 1983. Equipped with digital water-level recorder--15 and 30-minute recorder intervals from June 1, 1978 to October 1986. Equipped with electronic water level recorder (transducer)--15-minute recorder interval from October 1986 to October 1992.

DATUM.--Elevation of land surface is 22.83 ft above sea level.

Measuring point: Top of casing, 3.43 ft above land surface.

REMARKS.--Southern Maryland Observation Well Network. Water levels are affected by local ground-water withdrawal.

Missing data due to recorder malfunction.

PERIOD OF RECORD.--October 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 49.74 ft below sea level, April 14, 1981;
lowest measured, 124.63 ft below sea level, April 4, 1996.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-96.24	-111.65	-84.39	-85.11	-83.30	-87.30	-85.11	-88.45	-87.64	-90.98	-88.91	-92.07
2	-95.95	-110.93	-81.92	-86.58	-82.27	-85.26	-84.88	-89.97	-90.32	-92.65	-89.83	-92.27
3	-94.80	-108.92	-83.10	-86.15	-84.37	-86.90	-82.53	-86.67	-90.03	-93.34	-89.54	-93.08
4	-95.09	-110.01	-82.90	-87.56	-81.49	-85.29	-80.46	-84.94	-88.36	-92.59	-87.82	-90.20
5	-102.05	-113.40	-82.18	-85.52	-81.95	-86.06	-79.10	-82.87	-89.37	-92.59	-89.05	-92.39
6	-101.13	-114.44	-82.12	-86.32	-81.00	-84.91	-81.23	-84.39	-89.00	-92.99	-87.64	-92.24
7	-99.80	-112.63	-79.80	-82.87	-83.33	-86.61	-79.16	-82.30	-89.11	-91.90	-92.24	-93.97
8	-97.19	-110.47	-80.20	-84.91	-84.22	-87.99	-81.15	-84.19	-88.13	-91.87	-90.37	-93.19
9	-91.41	-111.51	-82.93	-85.72	-82.64	-86.35	-78.73	-82.38	-87.53	-90.72	-90.06	-93.42
10	-89.25	-103.95	-83.88	-86.41	-84.28	-86.70	-78.42	-83.19	-87.87	-91.58	-89.57	-92.79
11	-87.47	-102.25	-83.39	-85.49	-83.22	-88.10	-80.34	-84.83	-87.10	-90.15	-90.09	-93.91
12	-102.25	-110.50	-83.27	-85.20	-80.40	-84.22	-81.95	-85.92	-87.67	-91.44	-87.79	-91.41
13	-92.99	-110.93	-82.96	-86.06	-80.20	-85.34	-83.04	-85.34	-85.86	-88.77	-87.16	-91.64
14	-91.93	-104.98	-80.89	-85.20	-83.73	-88.42	-83.50	-86.78	-86.06	-90.58	-91.64	-94.89
15	-93.91	-104.35	-80.11	-84.57	-82.15	-85.83	-82.32	-85.72	-87.73	-91.87	-91.55	-95.29
16	-93.91	-104.41	-81.03	-84.71	-80.05	-83.93	-83.93	-87.24	-86.67	-90.06	-91.24	-94.40
17	-93.48	-96.70	-80.20	-84.39	-80.28	-83.85	-85.29	-87.96	-88.36	-91.09	-89.97	-92.45
18	-93.60	-96.18	-81.75	-84.63	-80.83	-84.08	-85.11	-87.79	-86.87	-90.37	-89.89	-93.57
19	-92.59	-96.73	-80.54	-85.03	-83.59	-85.98	-84.57	-87.33	-84.48	-89.63	-88.62	-93.14
20	-89.94	-94.60	-79.68	-84.74	-85.98	-90.63	-85.00	-87.01	-84.63	-87.87	---	---
21	-88.02	-94.49	-82.96	-87.93	-89.02	-91.41	-85.95	-88.85	-81.84	-87.13	-91.47	-93.91
22	-93.36	-95.49	-84.60	-88.91	-88.62	-91.75	-82.87	-86.49	-82.24	-87.67	-93.91	-95.29
23	-92.30	-95.35	-83.22	-87.47	-87.07	-90.98	-83.16	-87.73	-85.72	-89.40	-92.10	-95.55
24	-87.50	-93.48	-82.76	-88.10	-85.86	-88.51	-82.76	-87.39	-89.40	-91.90	-92.85	-95.26
25	-86.55	-88.91	-80.51	-84.25	-85.32	-89.86	-85.89	-88.05	-87.41	-91.64	-92.13	-96.07
26	-86.98	-90.63	-81.43	-85.32	-83.07	-89.20	-84.31	-88.82	-86.03	-89.14	-92.19	-95.29
27	-84.02	-88.88	-81.06	-86.12	-86.84	-89.43	-83.62	-88.13	-85.95	-90.26	-91.21	-95.35
28	-84.19	-86.03	-78.73	-81.38	-85.66	-89.28	-85.80	-89.94	-85.40	-90.20	-93.71	-95.58
29	-83.79	-86.32	-80.66	-82.81	-86.41	-89.97	-87.96	-91.47	-89.31	-91.96	-92.50	-96.53
30	-82.99	-84.39	-79.91	-86.29	-86.72	-90.09	-84.19	-87.96	---	---	-91.55	-93.39
31	-82.96	-84.65	---	---	-84.05	-89.14	-86.24	-90.46	---	---	-93.36	-95.78
MONTH	-82.96	-114.44	-78.73	-88.91	-80.05	-91.75	-78.42	-91.47	-81.84	-93.34	-87.16	-96.53

GROUND-WATER LEVELS IN MARYLAND--Continued

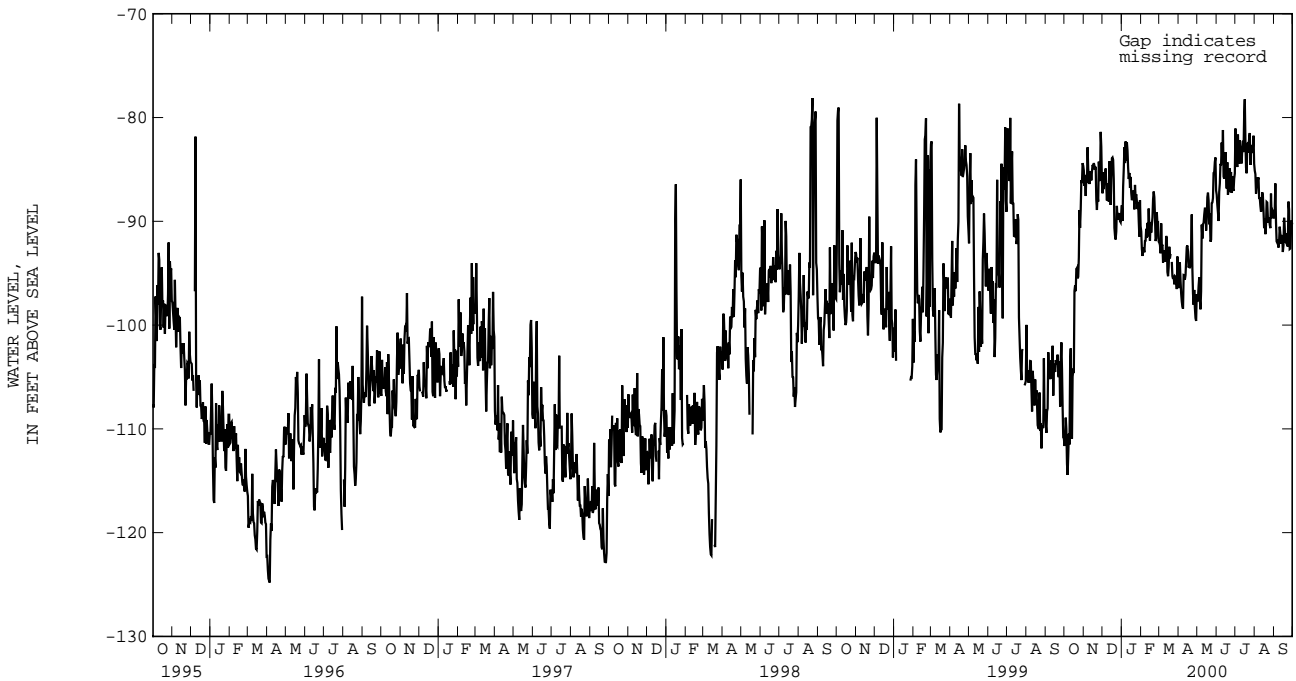
CHARLES COUNTY--Continued

CH Ee 70--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-91.98	-96.44	-95.38	-97.73	-82.90	-87.44	-79.10	-81.06	-80.20	-85.11	-86.58	-89.71
2	-91.32	-94.03	-93.80	-97.36	-85.23	-88.45	-78.62	-83.07	-83.19	-85.46	-83.50	-88.94
3	-90.17	-94.03	-90.75	-96.21	-85.40	-89.14	-81.89	-84.02	-84.85	-87.33	-82.50	-86.35
4	-93.54	-95.72	-92.76	-95.41	-86.03	-89.97	-79.74	-84.77	-84.42	-86.67	-86.35	-90.03
5	-95.72	-96.96	-95.21	-97.65	-83.19	-87.16	-78.90	-81.64	-81.66	-85.80	-87.90	-91.93
6	-96.96	-97.73	-96.53	-98.48	-83.02	-86.35	-78.93	-83.70	-83.70	-86.03	-88.71	-92.07
7	-97.73	-98.22	-87.96	-96.73	-80.89	-84.45	-81.55	-84.45	-83.68	-85.77	-88.22	-91.73
8	-94.80	-98.42	-86.55	-90.32	-81.32	-84.60	-78.16	-82.18	-84.85	-87.85	-89.77	-92.53
9	-93.11	-95.18	-88.10	-91.67	-79.57	-82.41	-77.87	-83.19	-83.56	-87.70	-86.84	-91.90
10	-92.22	-95.21	-87.41	-90.26	-79.62	-84.17	-81.23	-84.08	-84.54	-88.51	-86.92	-90.52
11	-92.19	-95.61	-86.44	-90.15	-78.79	-81.20	-79.91	-84.42	-85.57	-89.08	-87.73	-91.21
12	-92.19	-95.18	-85.46	-89.34	-78.10	-85.69	-78.16	-82.96	-84.83	-88.82	-88.16	-92.16
13	-89.60	-93.82	-84.97	-88.77	-81.86	-85.89	-79.16	-82.24	-83.10	-87.21	-88.97	-91.58
14	-88.53	-92.47	-84.94	-88.77	-81.09	-85.57	-78.88	-83.33	-82.30	-87.56	-89.63	-91.32
15	-88.28	-92.33	-86.70	-90.89	-79.97	-83.33	-76.06	-79.71	-85.92	-88.97	-91.09	-92.96
16	-90.20	-92.91	-85.09	-89.80	-80.60	-85.20	-75.86	-78.24	-86.03	-90.66	-89.14	-92.33
17	-92.10	-94.46	-83.68	-87.67	-83.27	-86.84	-75.77	-82.10	-86.03	-89.77	-85.32	-89.66
18	-93.14	-94.17	-83.25	-87.24	-81.12	-84.31	-80.60	-84.83	-88.31	-91.24	-85.57	-90.55
19	-91.38	-94.52	-84.85	-87.99	-81.78	-87.44	-79.51	-85.37	-86.35	-90.40	-89.68	-91.93
20	-91.38	-94.03	-87.99	-90.29	-83.36	-86.95	-78.82	-82.53	-84.57	-88.13	-87.59	-92.04
21	-88.07	-92.50	-88.71	-89.25	-82.99	-87.18	-78.85	-82.47	-82.96	-88.19	-87.44	-91.18
22	-85.86	-89.34	-89.25	-91.96	-81.61	-84.91	-79.71	-83.36	-87.04	-89.68	-88.45	-91.75
23	-88.94	-94.60	-86.67	-91.78	-82.61	-85.89	-77.49	-81.89	-85.63	-90.15	-87.61	-92.45
24	-94.60	-96.96	-85.03	-88.25	-81.78	-85.26	-75.94	-81.49	-86.61	-89.66	-84.31	-88.10
25	-95.29	-98.05	-85.23	-88.19	-83.33	-87.27	-79.74	-84.57	-87.56	-90.32	-84.25	-88.85
26	-92.88	-96.61	-83.79	-87.76	-82.47	-85.66	-78.70	-82.64	-86.61	-90.66	-88.85	-92.67
27	-96.61	-98.31	-82.58	-85.34	-84.88	-86.90	-80.80	-83.07	-83.62	-87.33	-88.82	-92.62
28	-98.31	-99.32	-80.14	-85.29	-83.10	-87.07	-78.96	-83.42	-83.68	-89.57	-86.78	-90.98
29	-94.40	-99.60	-78.67	-84.28	-82.35	-85.89	-78.88	-82.90	-86.12	-89.71	-84.42	-89.92
30	-94.92	-97.02	-81.86	-83.85	-81.06	-85.40	-78.47	-81.75	-86.06	-89.00	-84.97	-90.29
31	---	---	-83.85	-87.04	---	---	-79.91	-84.45	-84.74	-89.11	---	---
MONTH	-85.86	-99.60	-78.67	-98.48	-78.10	-89.97	-75.77	-85.37	-80.20	-91.24	-82.50	-92.96
YEAR	-75.77	-114.44										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

CHARLES COUNTY--Continued

WELL NUMBER.--CH Ee 78. SITE ID.--382240076582801. PERMIT NUMBER.--CH-73-1965.
 LOCATION.--Lat 38°22'40", long 76°58'28", Hydrologic Unit 02070011, located at Clifton on the Potomac, on the east side of Ingleside Road, 0.3 mi north of Clifton Drive.
 Owner: Clifton on the Potomac Development.
 AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSC.
 WELL CHARACTERISTICS.--Drilled, used, artesian well, depth 1,220 ft; casing diameter 6.6 in., to 1,220 ft, and 1,168 to 1,189 ft, and 1,199 to 1,220 ft; screen diameter 7 in. from 1,148 to 1,168 ft, and 1,189 to 1,199 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--30-minute recorder interval from August 5, 1993 to current year.
 DATUM.--Altitude of land surface is 75 ft above sea level, from topographic map.
 Measuring Point: Top of recorder platform, 2.60 ft above land surface.
 REMARKS.--Southern Maryland Observation Well Network. Water levels are affected by local ground-water withdrawal.
 PERIOD OF RECORD.--August 5, 1993 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 43.87 ft below sea level, April 3, 1986;
 lowest measured, 84.75 ft below sea level, Sept. 26, 1997.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-79.27	-79.73	-76.93	-77.16	-75.42	-76.02	-77.16	-77.53	-77.71	-78.16	-78.59	-79.06
2	-79.40	-79.70	-76.25	-77.14	-75.39	-75.93	-77.25	-77.87	-78.16	-79.05	-78.59	-79.14
3	-79.38	-79.75	-76.44	-76.72	-75.39	-75.91	-76.45	-77.25	-79.05	-79.37	-79.14	-79.64
4	-79.34	-79.62	-76.65	-77.16	-75.35	-75.91	-75.73	-76.83	-78.65	-79.14	-78.68	-79.37
5	-79.61	-80.61	-76.34	-76.67	-75.19	-75.60	-75.35	-75.73	-78.83	-79.18	-78.73	-79.27
6	-80.61	-81.05	-76.28	-76.66	-74.81	-75.35	-75.57	-75.81	-79.14	-79.46	-78.79	-79.27
7	-81.05	-81.27	-75.62	-76.28	-75.33	-75.95	-74.95	-75.77	-79.02	-79.31	-79.27	-80.09
8	-80.60	-81.18	-75.17	-75.62	-75.95	-76.46	-75.01	-75.47	-79.04	-79.38	-79.61	-80.09
9	-80.23	-80.78	-75.39	-75.69	-75.73	-76.37	-74.60	-75.45	-78.51	-79.05	-79.54	-79.94
10	-79.38	-80.23	-75.63	-75.95	-76.08	-76.27	-74.16	-74.85	-78.58	-78.90	-79.53	-79.76
11	-78.94	-79.40	-75.25	-75.63	-76.27	-76.84	-74.43	-75.13	-78.35	-78.80	-79.65	-80.11
12	-79.08	-80.50	-75.03	-75.57	-75.43	-76.61	-75.13	-75.63	-78.43	-78.89	-79.17	-79.65
13	-80.50	-80.97	-75.01	-75.41	-74.97	-75.43	-75.41	-75.85	-77.86	-78.60	-79.02	-79.31
14	-80.50	-80.83	-74.81	-75.32	-75.35	-76.18	-75.85	-76.49	-77.79	-78.29	-79.31	-80.47
15	-80.83	-81.01	-74.74	-75.23	-75.21	-76.18	-75.95	-76.38	-78.29	-79.02	-80.41	-80.82
16	-81.01	-81.18	-74.86	-75.19	-74.56	-75.21	-75.98	-76.62	-78.10	-78.87	-80.13	-80.68
17	-81.03	-81.34	-74.79	-75.37	-74.59	-74.96	-76.62	-77.01	-78.40	-79.06	-79.97	-80.14
18	-80.95	-81.20	-74.79	-75.13	-74.63	-75.01	-76.61	-77.07	-78.37	-79.06	-80.14	-80.60
19	-80.97	-81.47	-74.88	-75.30	-74.74	-75.27	-75.83	-76.65	-77.79	-78.43	-79.75	-80.26
20	-80.40	-80.97	-74.54	-75.08	-75.27	-76.71	-75.65	-76.25	-77.45	-77.79	-79.11	-79.75
21	-79.66	-80.40	-75.04	-76.11	-76.71	-77.64	-76.25	-77.02	-76.80	-77.77	-79.28	-80.06
22	-80.11	-80.51	-76.10	-76.59	-77.64	-78.05	-76.14	-77.02	-76.52	-77.08	-80.06	-80.88
23	-80.17	-80.55	-75.75	-76.46	-77.80	-78.17	-76.25	-76.75	-77.08	-77.63	-80.54	-81.12
24	-79.48	-80.17	-76.14	-76.45	-77.39	-77.80	-76.03	-76.61	-77.63	-78.53	-80.53	-81.05
25	-78.82	-79.48	-75.13	-76.24	-77.47	-77.97	-76.28	-76.69	-78.45	-78.73	-81.05	-81.33
26	-78.51	-78.95	-75.06	-75.39	-76.59	-77.47	-76.69	-77.08	-77.79	-78.45	-80.84	-81.24
27	-78.05	-78.77	-75.39	-75.63	-77.33	-77.66	-76.51	-77.12	-77.78	-78.16	-80.48	-81.32
28	-77.81	-78.05	-74.43	-75.40	-77.33	-77.70	-77.12	-77.66	-77.61	-78.06	-80.48	-81.24
29	-77.45	-77.97	-74.43	-74.80	-77.41	-77.72	-77.66	-78.27	-78.06	-78.82	-81.24	-81.90
30	-77.17	-77.45	-74.62	-75.42	-77.65	-77.93	-76.70	-78.09	---	---	-80.88	-81.77
31	-76.88	-77.17	---	---	-77.33	-77.94	-76.70	-77.72	---	---	-80.88	-81.58
MONTH	-76.88	-81.47	-74.43	-77.16	-74.56	-78.17	-74.16	-78.27	-76.52	-79.46	-78.59	-81.90

GROUND-WATER LEVELS IN MARYLAND--Continued

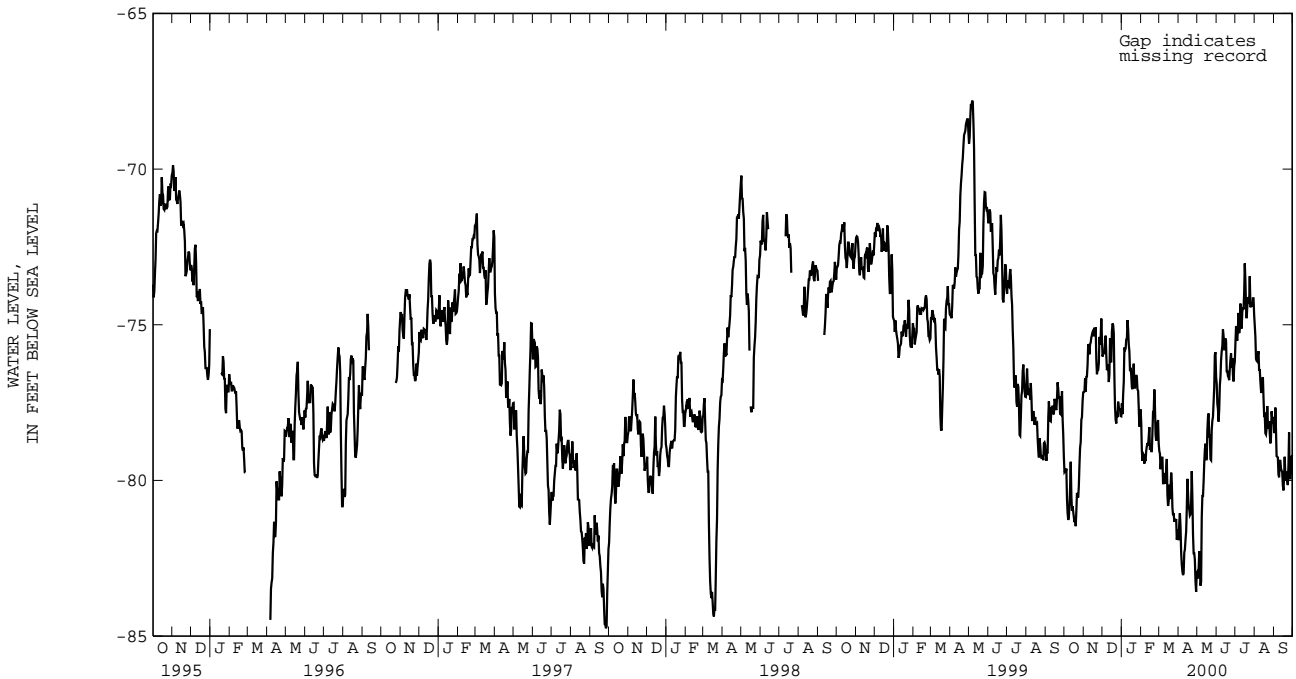
CHARLES COUNTY--Continued

CH Ee 78--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-81.35	-81.92	-82.78	-83.16	-76.46	-76.89	-74.82	-75.60	-74.42	-75.02	-77.96	-78.42
2	-80.87	-81.35	-82.66	-82.88	-76.89	-77.54	-74.60	-75.04	-75.02	-75.39	-77.66	-78.48
3	-80.58	-81.05	-81.94	-82.86	-77.20	-77.71	-75.01	-75.42	-75.39	-76.10	-77.08	-77.66
4	-80.70	-81.52	-81.85	-82.28	-77.71	-78.11	-75.08	-75.51	-75.98	-76.16	-77.18	-78.38
5	-81.52	-82.32	-82.27	-82.92	-76.96	-77.73	-74.39	-75.08	-75.60	-76.18	-78.38	-79.22
6	-82.31	-82.70	-82.92	-83.38	-76.59	-76.96	-74.37	-74.62	-75.60	-75.98	-78.96	-79.24
7	-82.70	-82.93	-81.20	-83.26	-75.96	-76.67	-74.62	-75.27	-75.54	-75.85	-79.03	-79.26
8	-82.93	-83.04	-80.19	-81.20	-75.86	-76.13	-74.28	-75.06	-75.76	-76.48	-79.03	-79.81
9	-82.32	-82.98	-80.20	-80.50	-75.15	-75.86	-73.96	-74.32	-76.07	-76.43	-79.26	-79.90
10	-82.01	-82.32	-79.83	-80.50	-75.15	-75.68	-74.32	-74.84	-76.35	-76.82	-78.95	-79.37
11	-81.48	-82.22	-79.29	-80.04	-74.58	-75.15	-74.59	-75.12	-76.56	-77.11	-78.94	-79.37
12	-81.46	-81.90	-78.88	-79.43	-74.41	-75.36	-74.02	-74.59	-76.76	-77.19	-79.17	-79.61
13	-80.85	-81.64	-78.48	-79.01	-75.36	-75.79	-74.28	-74.44	-76.40	-76.79	-79.30	-79.68
14	-79.95	-80.95	-78.41	-78.82	-75.44	-75.79	-73.98	-74.51	-76.10	-76.68	-79.50	-79.74
15	-79.48	-79.95	-78.61	-79.32	-74.82	-75.44	-73.03	-73.98	-76.68	-77.34	-79.55	-80.16
16	-79.90	-80.38	-78.30	-79.32	-74.87	-75.52	-72.61	-73.03	-77.16	-77.90	-79.90	-80.32
17	-80.29	-80.86	-77.82	-78.42	-75.52	-76.49	-72.41	-73.58	-77.44	-77.88	-78.94	-79.92
18	-80.73	-80.93	-77.48	-77.96	-75.85	-76.49	-73.58	-74.44	-77.88	-78.48	-78.63	-79.24
19	-80.80	-81.12	-77.52	-77.85	-75.61	-76.65	-74.42	-74.79	-78.16	-78.52	-79.24	-79.82
20	-80.68	-81.08	-77.85	-78.58	-76.42	-76.69	-73.82	-74.42	-77.60	-78.32	-79.48	-80.01
21	-79.70	-80.68	-78.42	-78.57	-76.40	-76.78	-73.70	-74.11	-77.10	-77.61	-79.38	-79.72
22	-79.00	-79.70	-78.53	-79.32	-75.69	-76.40	-73.70	-74.29	-77.48	-78.16	-79.66	-80.02
23	-79.04	-80.56	-78.38	-79.35	-75.80	-76.12	-73.43	-74.30	-77.75	-78.33	-79.50	-80.15
24	-80.56	-81.72	-77.76	-78.38	-75.62	-75.92	-72.87	-73.44	-77.77	-78.10	-78.46	-79.50
25	-81.72	-82.34	-77.80	-78.08	-75.87	-76.38	-73.44	-74.44	-78.04	-78.48	-78.06	-78.46
26	-81.71	-82.34	-77.50	-77.96	-75.82	-76.07	-73.75	-74.38	-78.31	-78.81	-78.36	-79.90
27	-81.88	-82.55	-76.91	-77.50	-76.06	-76.61	-73.84	-74.31	-77.31	-78.60	-79.70	-79.96
28	-82.55	-83.25	-75.97	-77.01	-76.23	-76.82	-73.95	-74.42	-77.09	-77.78	-79.21	-79.74
29	-82.85	-83.58	-75.26	-75.97	-75.94	-76.34	-73.70	-74.15	-77.70	-78.02	-78.62	-79.24
30	-82.71	-82.91	-75.72	-75.88	-75.60	-76.18	-73.68	-74.15	-77.83	-78.16	-78.71	-79.19
31	---	---	-75.88	-76.67	---	---	-73.65	-74.68	-77.51	-77.96	---	---
MONTH	-79.00	-83.58	-75.26	-83.38	-74.41	-78.11	-72.41	-75.60	-74.42	-78.81	-77.08	-80.32
YEAR	-72.41	-83.58										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

DORCHESTER COUNTY

WELL NUMBER.--DO Bg 59. SITE ID.--383708075503801. PERMIT NUMBER.--DO-73-0612.
 LOCATION.--Lat 38°37'08" long 75°50'38", Hydrologic Unit 02060008, at Hurlock Sewage Treatment Plant.
 Owner: U.S. Geological Survey.

AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 537 ft; casing diameter 6 in., to 65 ft;
 casing diameter 2 in. from 65 to 527 ft; screen diameter 2 in. from 527 to 537 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 25 ft above sea level, from topographic map.

Measuring point: Top of casing, 0.60 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

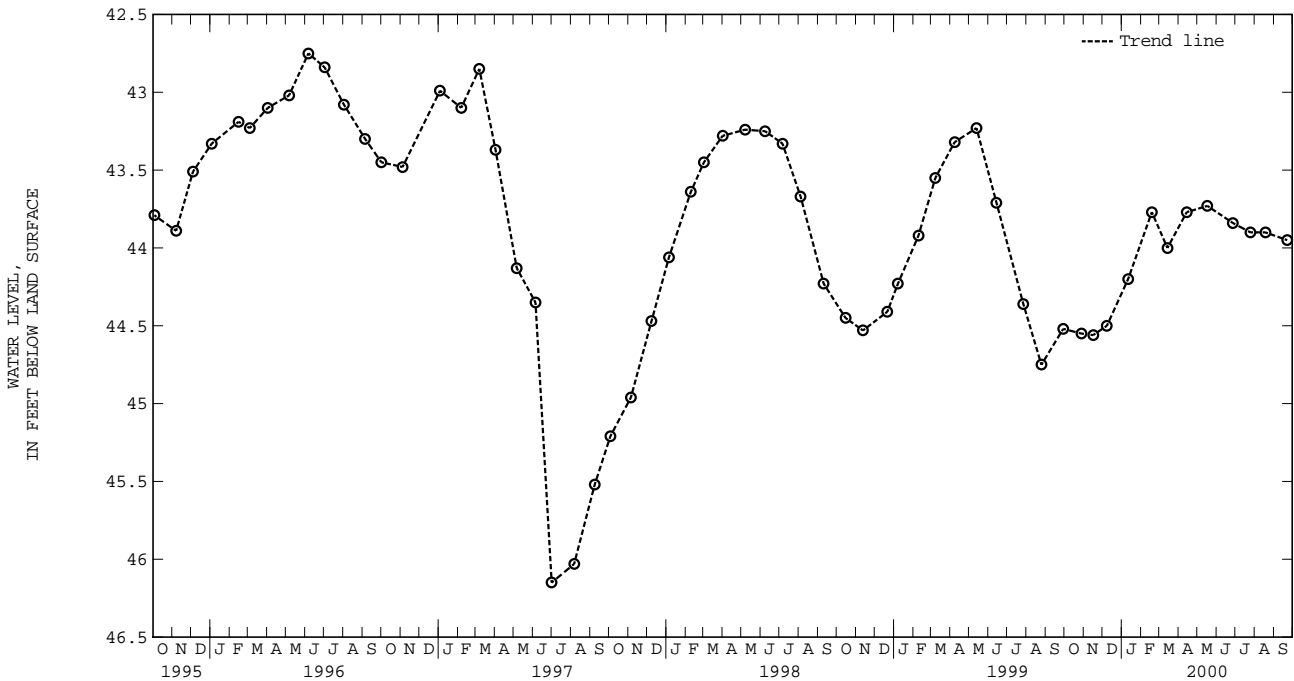
PERIOD OF RECORD.--October 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 31.79 ft below land surface, Aug. 2, 1978;
 lowest measured, 46.15 ft below land surface, July 1, 1997.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28, 1999	44.55	JAN 11, 2000	44.20	APR 14, 2000	43.77	JUL 25, 2000	43.90
NOV 16	44.56	FEB 18	43.77	MAY 17	43.73	AUG 18	43.90
DEC 08	44.50	MAR 14	44.00	JUN 27	43.84	SEP 22	43.95

WATER YEAR 2000 HIGHEST 43.73 MAY 17, 2000 LOWEST 44.56 NOV 16, 1999



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

DORCHESTER COUNTY--Continued

WELL NUMBER.--DO Cd 1. SITE ID.--383151076080801.

LOCATION.--Lat 38°31'51", long 76°08'08", Hydrologic Unit 02060005, near Christs Rock.

Owner: Harold E. Fee.

AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 390 ft; casing diameter 2 in., to unknown depth.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 4 ft above sea level, from topographic map.

Measuring point: Top of casing, 0.35 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

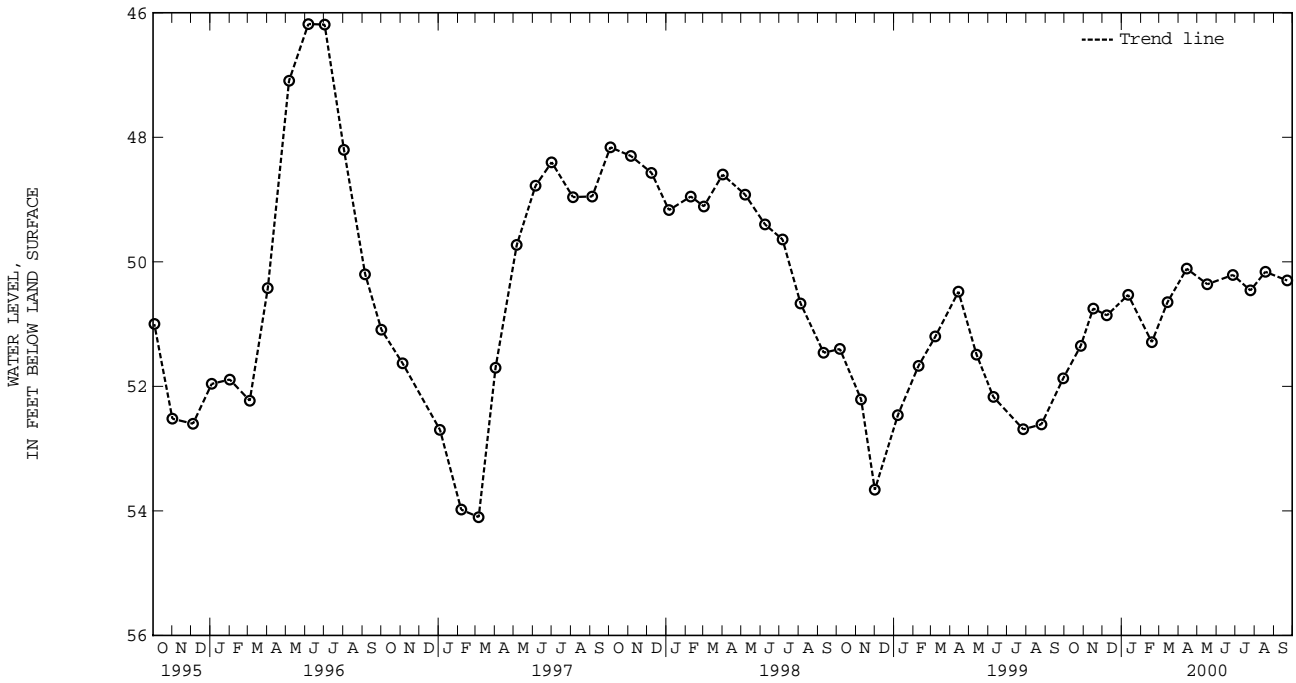
PERIOD OF RECORD.--October 1966 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 42.07 ft below land surface, Oct. 2, 1990;

lowest measured, 80.32 ft below land surface, Oct. 16, 1970.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 1999	51.35	JAN 11, 2000	50.53	APR 14, 2000	50.11	JUL 25, 2000	50.46
NOV 16	50.75	FEB 18	51.29	MAY 17	50.36	AUG 18	50.16
DEC 08	50.86	MAR 14	50.65	JUN 27	50.21	SEP 22	50.30
WATER YEAR 2000 HIGHEST 50.11		APR 14, 2000		LOWEST 51.35		OCT 27, 1999	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

DORCHESTER COUNTY--Continued

WELL NUMBER.--DO Ce 5. SITE ID.--383340076041601.

LOCATION.--Lat 38°33'40", long 76°04'16", Hydrologic Unit 02060005, at Cambridge Pumping Station.

Owner: Municipal Utilities Commission.

AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, depth 405 ft; casing diameter 12 in., to 385 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 18 ft above sea level, from topographic map.

Measuring point: Top of casing, 4.00 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels affected by local ground-water withdrawal.

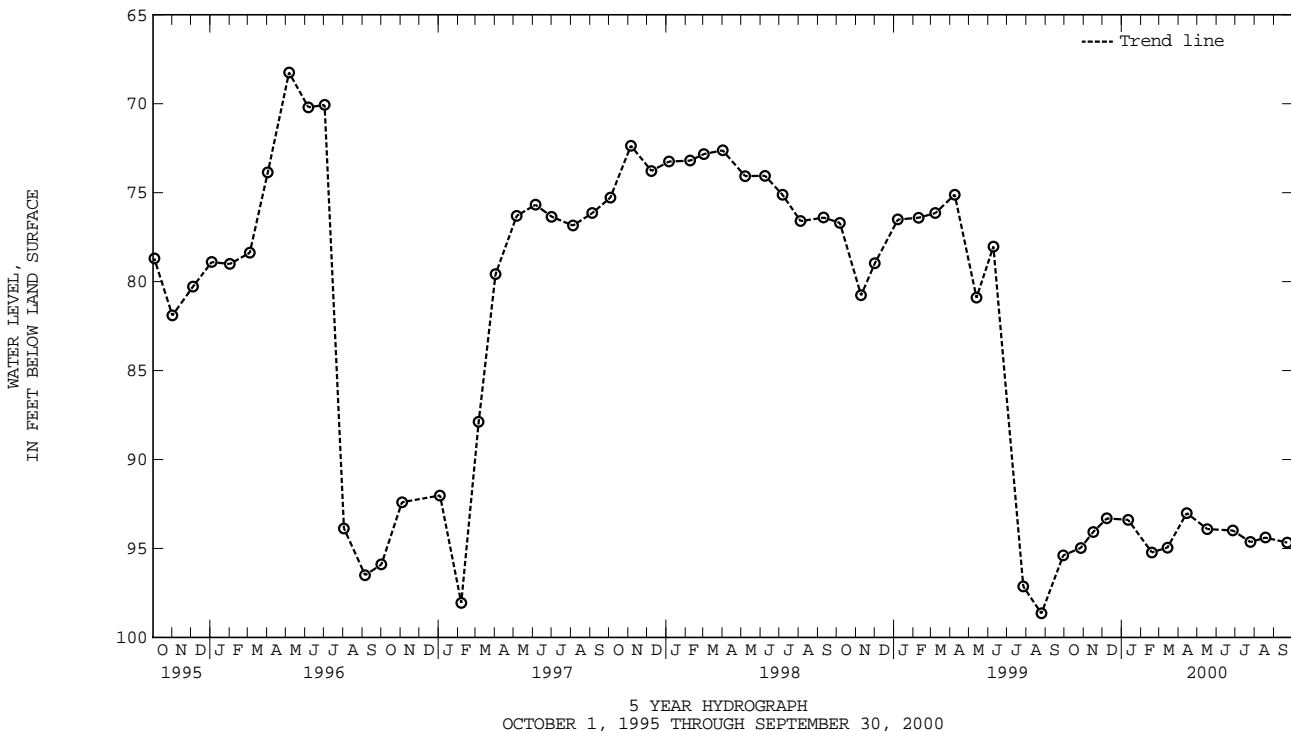
PERIOD OF RECORD.--October 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 66.23 ft below land surface, May 1, 1990;

lowest measured, 115.06 ft below land surface, Aug. 29, 1978.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 1999	94.97	JAN 11, 2000	93.39	APR 14, 2000	93.01	JUL 25, 2000	94.64
NOV 16	94.07	FEB 18	95.22	MAY 17	93.91	AUG 18	94.39
DEC 08	93.31	MAR 14	94.95	JUN 27	93.99	SEP 22	94.67
WATER YEAR 2000 HIGHEST		93.01	APR 14, 2000		LOWEST		95.22
							FEB 18, 2000



GROUND-WATER LEVELS IN MARYLAND--Continued

DORCHESTER COUNTY--Continued

WELL LOCATION.--DO Ce 15. SITE ID.--383408076042402. PERMIT NUMBER.--DO-00-1220.

LOCATION.--Lat 38°34'08", long 76°04'23", Hydrologic Unit 02060005, near Cambridge Creek, near Trenton St., Cambridge.

Owner: Carroll W. Thomas & Sons., Inc.

AQUIFER.--Magothy Formation of Upper Cretaceous age. Aquifer code: 211MGTY.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 970.5 ft; casing diameter 10 in., to 25 ft.; casing diameter 8 in. from 25 to 236.5 ft; casing diameter 6 in. from 230 to 513.5 ft; casing diameter 4 in. from 468 to 911.5 ft; casing diameter 3 in. from 902.5 to 950.5 ft; screen diameter 3 in. (?) from 950.5 to 970.5 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 6 ft above sea level, from topographic map.

Measuring point: Top of casing, 1.50 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water level reported 68 ft below land surface Aug. 30, 1947.

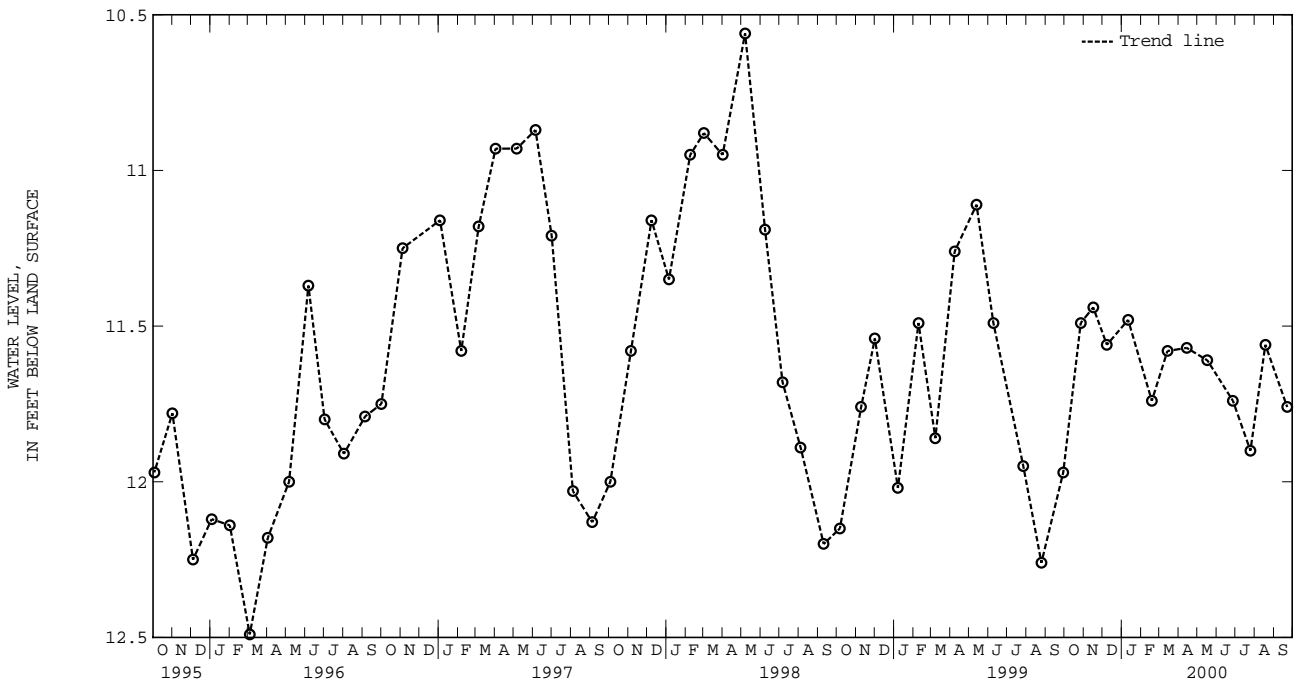
Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--June 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.41 ft below land surface, March 1, 1960; lowest measured, 41.12 ft below land surface, Aug. 7, 1959.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 1999	11.49	JAN 11, 2000	11.48	APR 14, 2000	11.57	JUL 25, 2000	11.90
NOV 16	11.44	FEB 18	11.74	MAY 17	11.61	AUG 18	11.56
DEC 08	11.56	MAR 14	11.58	JUN 27	11.74	SEP 22	11.76
WATER YEAR 2000 HIGHEST 11.44		NOV 16, 1999		LOWEST 11.90		JUL 25, 2000	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

DORCHESTER COUNTY--Continued

WELL NUMBER.--DO Ce 21. SITE ID.--383346076030301.

LOCATION.--Lat 38°33'46", long 76°03'03", Hydrologic Unit 02060005, on Shoal Creek about 1.5 mi southeast of Cambridge.

Owner: Eastern Shore State Hospital.

AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, reported depth 370 ft; casing diameter 8 in., to 239 ft; casing diameter 4.5 in., 239 to 368.5 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder Aug. 23, 1956 to Nov. 6, 1958, and Sept. 11, 1965 to Oct. 13, 1966.

DATUM.--Elevation of land surface is 11.7 ft above sea level.

Measuring point: Top of casing at land surface.

REMARKS.--Maryland Water-Level Network observation well. Water level measured 73.77 ft below land surface, Feb. 14, 1952.

Water levels are affected by local ground-water withdrawal. Access to well blocked by construction equipment, from January 1988 through September 1988.

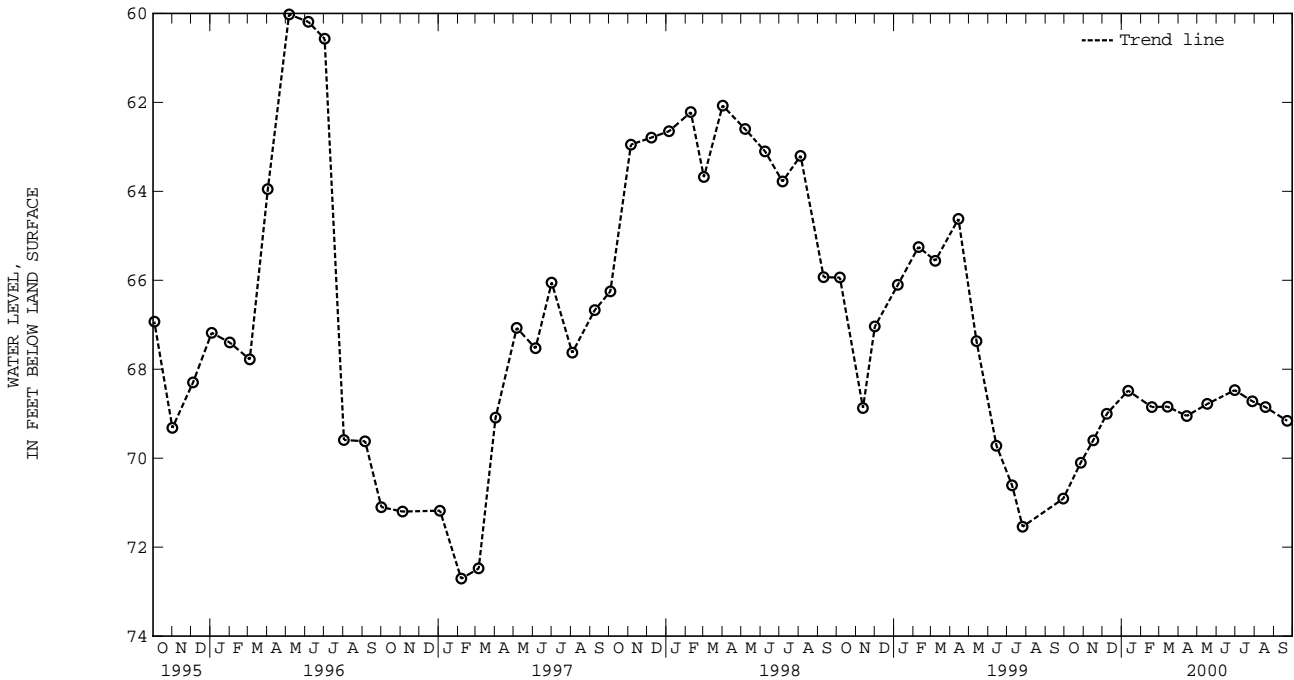
PERIOD OF RECORD.--August 1956 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level reported, 14.00 ft below land surface, August 1914; highest water level measured, 55.88 ft below land surface, May 1, 1990; lowest measured, 132.95 ft, below land surface, Sept. 6, 1956.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 1999	70.10	JAN 11, 2000	68.48	APR 14, 2000	69.05	JUL 28, 2000	68.72
NOV 16	69.60	FEB 18	68.85	MAY 17	68.78	AUG 18	68.85
DEC 08	69.00	MAR 14	68.84	JUN 30	68.47	SEP 22	69.16

WATER YEAR 2000 HIGHEST 68.47 JUN 30, 2000 LOWEST 70.10 OCT 27, 1999



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

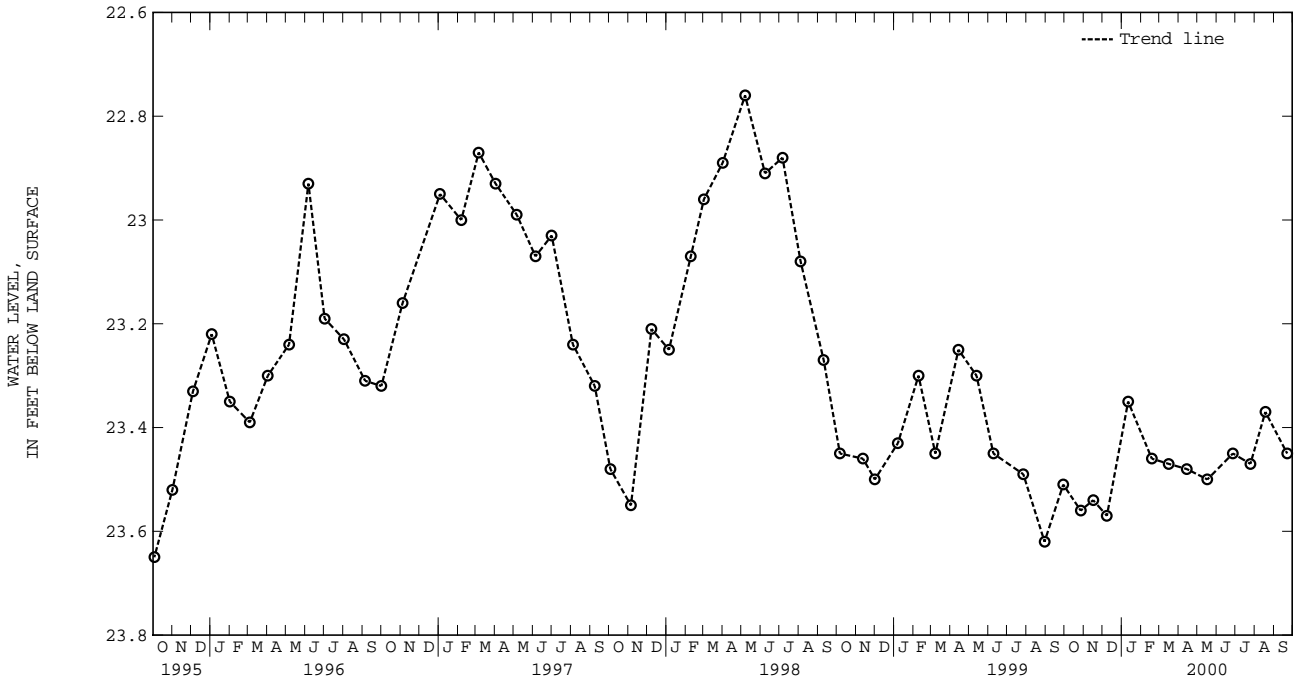
GROUND-WATER LEVELS IN MARYLAND--Continued

DORCHESTER COUNTY--Continued

WELL NUMBER.--DO Ce 85. SITE ID.--383256076035301. PERMIT NUMBER.--DO-73-0281.
 LOCATION.--Lat 38°32'56", long 76°03'53", Hydrologic Unit 02060005, at Woods Rd. water tower, Cambridge.
 Owner: U.S. Geological Survey.
 AQUIFER.--Cheswold aquifer of the Calvert Formation of Lower middle Miocene age. Aquifer code: 122CSLD.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 230 ft; casing diameter 4 in., to 220 ft; screen diameter 4 in. from 220 to 230 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 15 ft above sea level, from topographic map.
 Measuring point: Top of casing, 1.10 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Reported as DO Ce 78 in previous reports.
 PERIOD OF RECORD.--October 1977 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.74 ft below land surface, June 3, 1993;
 lowest measured, 26.39 ft below land surface, Oct. 4, 1977.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 1999	23.56	JAN 11, 2000	23.35	APR 14, 2000	23.48	JUL 25, 2000	23.47
NOV 16	23.54	FEB 18	23.46	MAY 17	23.50	AUG 18	23.37
DEC 08	23.57	MAR 16	23.47	JUN 27	23.45	SEP 22	23.45
WATER YEAR 2000 HIGHEST		23.35 JAN 11, 2000	LOWEST		23.57 DEC 08, 1999		



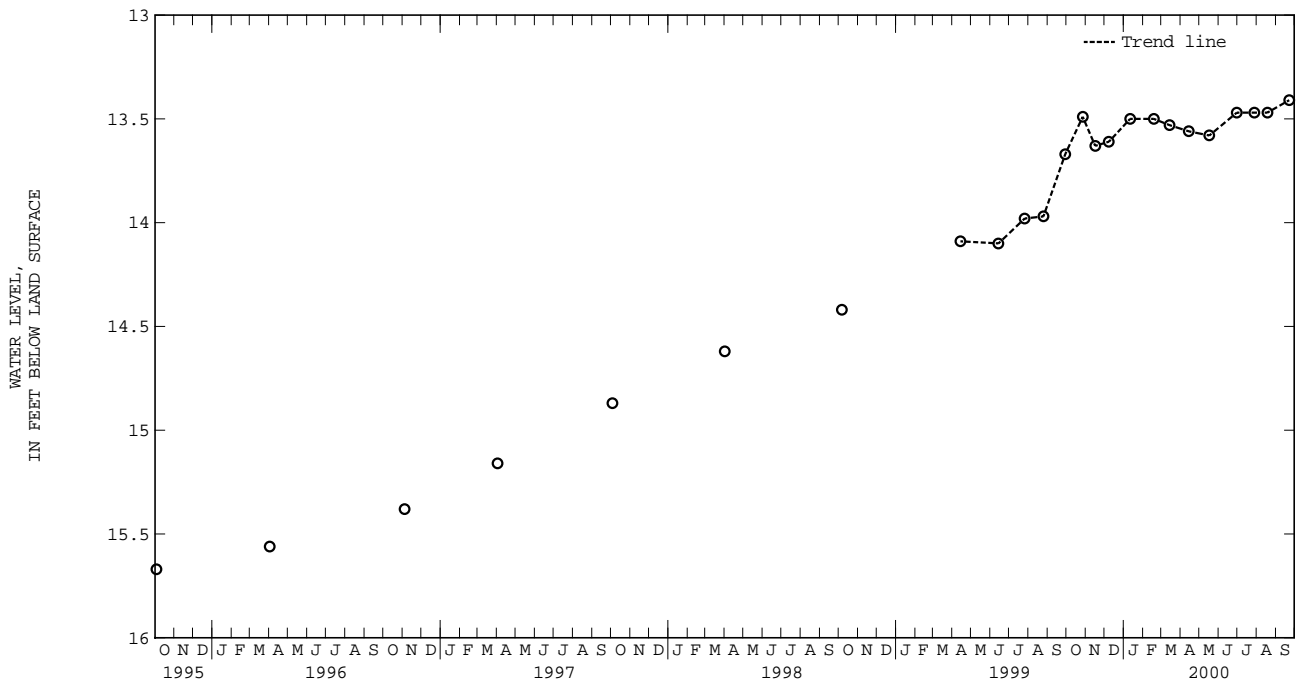
5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

DORCHESTER COUNTY--Continued

WELL NUMBER.--DO Ce 88. SITE ID.--383401076032001. PERMIT NUMBER.--DO-73-1369.
 LOCATION.--Lat 38°34'01", long 76°03'20", Hydrologic Unit 02060005, at Eastern Shore State Hospital, Cambridge.
 Owner: U.S. Geological Survey.
 AQUIFER.--Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSC.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 1427.4 ft; casing diameter 12 in., to 103 ft; casing diameter 4 in., to 1427.4 ft; perforated casing diameter 4 in. from 1417.4 to 1427.4 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Twice yearly measurements prior to May 1999.
 DATUM.--Elevation of land surface is 4.4 ft above sea level.
 Measuring point: Top of casing, 1.18 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well.
 PERIOD OF RECORD.--October 1981 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.51 ft below land surface, July 20, 1983; lowest measured, 22.22 ft below land surface, Nov. 13, 1981.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 1999	13.49	JAN 11, 2000	13.50	APR 14, 2000	13.56	JUL 28, 2000	13.47
NOV 16	13.63	FEB 18	13.50	MAY 17	13.58	AUG 18	13.47
DEC 08	13.61	MAR 14	13.53	JUN 30	13.47	SEP 22	13.41
WATER YEAR 2000 HIGHEST 13.41		SEP 22, 2000		LOWEST 13.63		NOV 16, 1999	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

DORCHESTER COUNTY--Continued

WELL NUMBER.--DO Db 17. SITE ID.--382800076180701. PERMIT NUMBER.--DO-73-0557.

LOCATION.--Lat 38°28'00", long 76°18'07", Hydrologic Unit 02060005, near MD Rt. 16, Taylors Island.

Owner: U.S. Geological Survey.

AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 320 ft; casing diameter 6 in., to 55 ft; casing diameter 2 in. from 55 to 270 ft; screen diameter 2 in. from 270 to 280 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 4 ft above sea level, from topographic map.

Measuring point: Top of casing, 1.65 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by regional ground-water withdrawal.

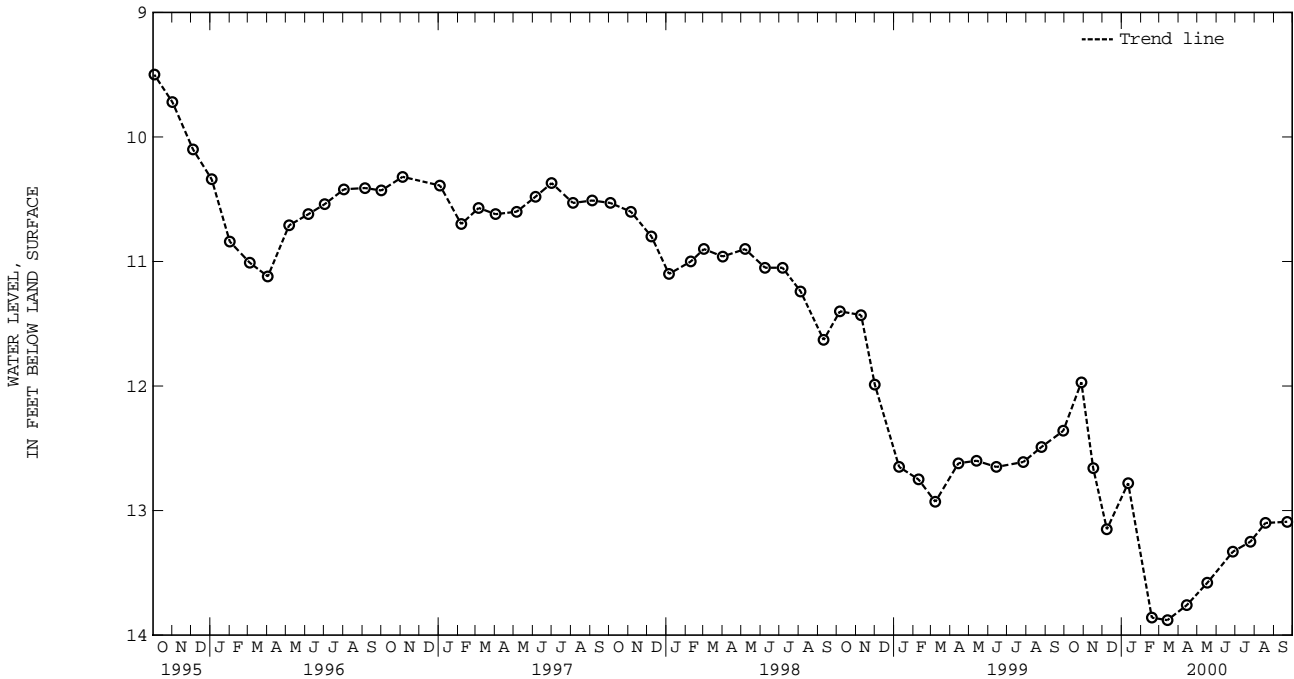
PERIOD OF RECORD.--April 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.18 ft below land surface, Dec. 5, 1990;

lowest measured, 13.88 ft below land surface, March 14, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28, 1999	11.97	JAN 11, 2000	12.78	APR 14, 2000	13.76	JUL 25, 2000	13.25
NOV 16	12.66	FEB 18	13.86	MAY 17	13.58	AUG 18	13.10
DEC 08	13.15	MAR 14	13.88	JUN 27	13.33	SEP 22	13.09
WATER YEAR 2000 HIGHEST 11.97		OCT 28, 1999		LOWEST 13.88		MAR 14, 2000	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

DORCHESTER COUNTY--Continued

WELL NUMBER.--DO Db 18. SITE ID.--382807076175801. PERMIT NUMBER.--DO-81-1314.
 LOCATION.-- Lat 38°28'07", long 76°17'58", Hydrologic Unit 02060005, Taylors Island.
 Owner: Eleanor Polley.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.
 WELL CHARACTERISTICS.--Drilled, domestic, artesian well, depth 540 ft; casing diameter 4 in., to 140 ft;
 casing diameter 2 in. from 140 to 520 ft; screen diameter 2 in. from 520 to 540 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 2 ft above sea level, from topographic map.

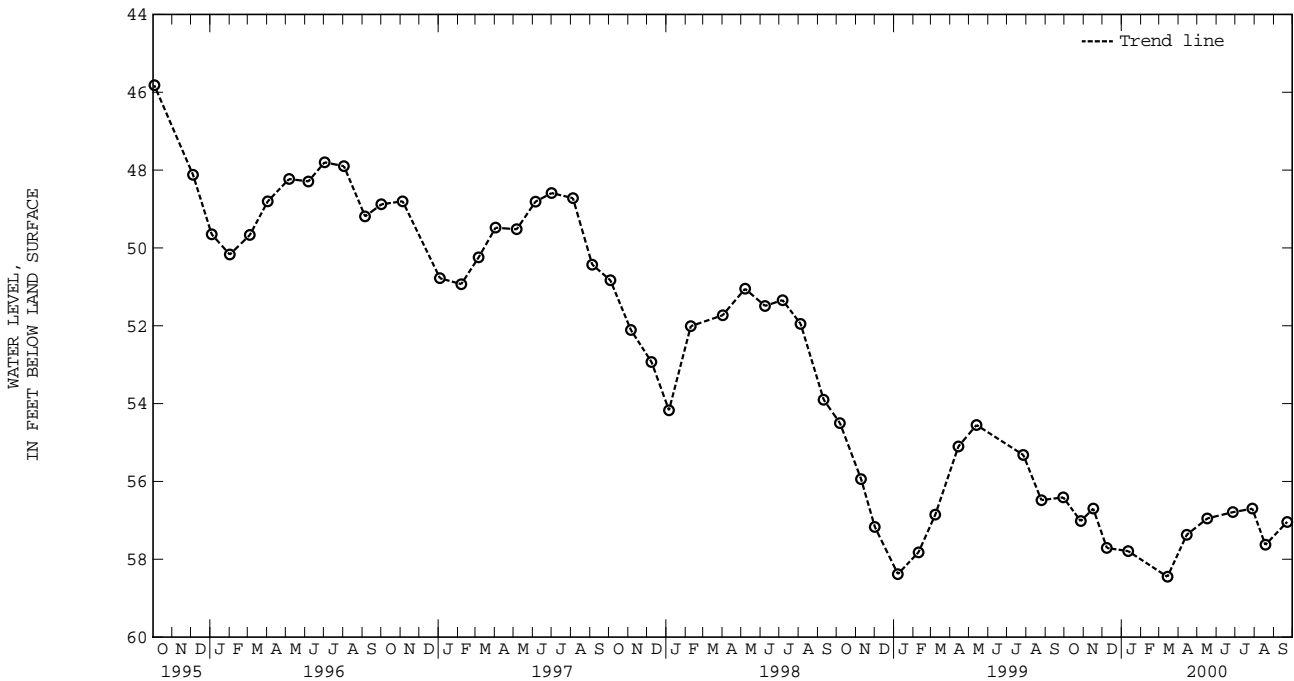
Measuring point: Top of casing, 1.50 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by regional ground-water withdrawal.
 PERIOD OF RECORD.--November 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.44 ft below land surface, Feb. 2, 1989;
 lowest measured, 58.45 ft below land surface, March 14, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 1999	57.02	JAN 11, 2000	57.79	MAY 17, 2000	56.95	AUG 18, 2000	57.63
NOV 16	56.70	MAR 14	58.45	JUN 27	56.79	SEP 22	57.04
DEC 08	57.71	APR 14	57.37	JUL 28	56.70		

WATER YEAR 2000 HIGHEST 56.70 NOV 16, 1999 JUL 28, 2000 LOWEST 58.45 MAR 14, 2000



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

DORCHESTER COUNTY--Continued

WELL NUMBER.--DO Db 19. SITE ID.--382847076190901. PERMIT NUMBER.--DO-81-1164.
 LOCATION.--Lat 38°28'47", long 76°19'09", Hydrologic Unit 02060005, Taylors Island.

Owner: Elmer Wiley.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, domestic, artesian well, depth 540 ft; casing diameter 4 in. to 140 ft; casing diameter 2 in. from 140 to 520 ft; screen diameter 2 in. from 520 to 540 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 4 ft above sea level, from topographic map.

Measuring point: Top of casing, 2.50 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by regional ground-water withdrawal.

PERIOD OF RECORD.--March 1989 to current year.

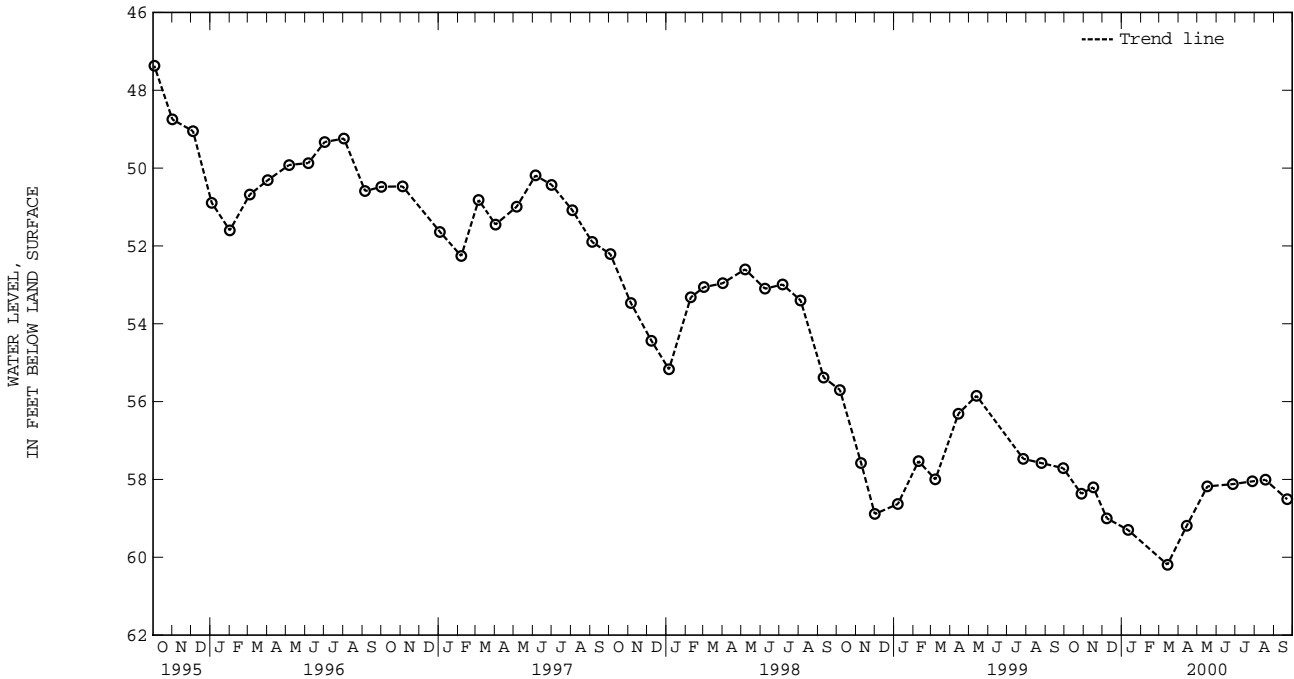
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 31.50 ft below land surface, Aug. 2, 1989;

lowest measured, 60.19 ft below land surface, March 14, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28, 1999	58.37	JAN 11, 2000	59.30	MAY 17, 2000	58.18	AUG 18, 2000	58.01
NOV 16	58.20	MAR 14	60.19	JUN 27	58.12	SEP 22	58.51
DEC 08	59.00	APR 14	59.19	JUL 28	58.05		

WATER YEAR 2000 HIGHEST 58.01 AUG 18, 2000 LOWEST 60.19 MAR 14, 2000



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

DORCHESTER COUNTY--Continued

WELL NUMBER.--DO Dh 27. SITE ID.--382916075491702. PERMIT NUMBER.--DO-71-0001.

LOCATION.--Lat 38°29'16", Long 75°49'17", Hydrologic Unit 02060008, Vienna power plant.

Owner: Delmarva Power and Light Co.

AQUIFER.--Beaverdam Sand of Pliocene age. Aquifer code: 121BVDM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 63 ft; casing diameter 12 in., to 20 ft, and 8 in., to 33 ft; screen diameter 6 in. from 33 to 63 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--30-minute recorder interval from May 1990 to current year.

DATUM.--Altitude of land surface is 9.10 ft above sea level.

Measuring Point: Top of recorder platform, 2.69 ft above land surface.

REMARKS.-- Southern Maryland observation well network. Water levels are affected by nearby ground-water pumping at power plant.

The April 1, 1997 record low water level is due to an extended period of pumping to fill the storage tank, which was drained for maintenance.

PERIOD OF RECORD.--April 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.34 ft above sea level, February 7, 1998;

lowest measured, 11.11 ft below sea level, April 1, 1997.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
(READINGS BELOW SEA LEVEL INDICATED BY "-")

DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH										
1	2.66	2.03	2.62	-2.98	1.89	1.18	2.22	.23	1.49	-6.06	2.16	-4.99				
2	2.71	2.23	3.07	-2.10	1.96	-4.99	2.35	-5.00	1.38	-6.31	2.47	-4.12				
3	2.77	2.23	3.20	-3.42	2.42	-3.56	2.39	1.88	1.18	-6.16	2.40	1.99				
4	2.65	-3.73	2.59	-4.66	2.43	1.93	2.34	-3.41	1.38	-6.28	2.64	2.08				
5	2.53	1.73	2.05	-5.65	2.44	1.88	2.35	1.57	1.14	-6.40	2.77	2.29				
6	2.59	-2.72	1.65	-5.78	2.57	-2.98	2.21	1.57	1.84	.70	2.73	2.25				
7	2.71	1.99	1.68	-5.92	2.30	1.73	2.27	-3.83	2.02	-5.57	2.74	2.23				
8	2.48	-2.68	1.78	-5.48	2.15	-3.53	2.38	1.88	1.73	-6.12	2.81	-4.85				
9	2.60	2.07	2.59	1.65	2.27	1.75	2.43	1.95	1.88	-5.92	2.85	2.00				
10	2.47	1.93	2.51	-4.66	2.50	-1.76	2.63	-2.70	2.03	-4.91	2.77	-3.11				
11	2.44	-6.01	2.17	1.64	2.20	1.77	2.69	-1.25	2.21	-4.94	2.91	2.15				
12	1.77	-6.34	2.66	-3.58	1.95	1.49	2.46	-2.66	2.02	-5.29	3.12	2.55				
13	2.21	-4.41	2.75	2.36	1.98	-5.59	2.01	-3.41	2.18	-5.02	2.63	-2.73				
14	2.24	-5.27	2.80	2.28	2.76	1.76	1.71	-4.54	2.30	-4.55	2.64	2.09				
15	2.01	1.27	2.76	-2.69	2.76	-4.93	2.07	1.19	2.33	-5.12	2.58	-3.10				
16	2.23	1.62	2.29	-4.84	2.55	-4.97	2.49	1.92	2.06	-4.69	2.75	2.25				
17	2.33	-4.69	1.85	-5.42	2.12	-5.39	2.14	-6.51	2.21	1.71	2.92	1.87				
18	2.35	1.68	2.25	-3.77	1.80	-5.99	.88	-6.70	2.25	-4.81	2.36	1.71				
19	2.45	1.79	2.35	-4.33	1.29	-5.97	1.66	-5.65	2.57	-5.34	2.75	2.01				
20	2.69	2.27	2.44	1.88	1.81	-5.04	2.20	-5.05	2.31	-5.04	2.89	-5.07				
21	2.61	2.15	2.51	1.96	2.28	-4.43	2.15	-5.65	2.50	-4.65	2.67	-5.15				
22	2.88	2.33	2.49	1.89	2.07	-5.55	1.80	-5.95	2.49	-4.69	2.65	-5.56				
23	3.02	-5.23	2.49	1.89	2.11	-4.76	1.82	-5.91	2.39	-5.80	2.79	-5.16				
24	2.51	-5.43	2.41	-4.63	2.13	-4.21	1.73	-5.82	2.45	1.56	3.01	-4.07				
25	2.12	-5.88	2.45	1.77	2.25	1.62	1.64	-5.93	2.57	2.08	3.09	2.37				
26	2.21	-5.52	2.74	1.93	2.76	1.89	1.94	-5.68	2.65	1.99	3.09	2.59				
27	2.21	-3.57	2.66	2.12	2.47	-5.67	1.38	-5.75	2.87	2.38	3.39	2.55				
28	2.51	1.68	2.49	1.98	2.06	-5.09	1.20	-6.84	2.82	2.23	3.45	-1.43				
29	2.54	-3.75	2.34	-2.81	1.95	-5.02	.74	-6.67	2.49	-5.15	3.32	2.80				
30	2.46	1.95	2.17	1.30	2.32	-3.55	1.69	-5.83	---	---	3.08	2.67				
31	2.61	2.01	---	---	2.06	-4.62	1.89	-5.89	---	---	3.06	-3.52				
MONTH	3.02	-6.34	3.20	-5.92	2.76	-5.99	2.69	-6.84	2.87	-6.40	3.45	-5.56				

GROUND-WATER LEVELS IN MARYLAND--Continued

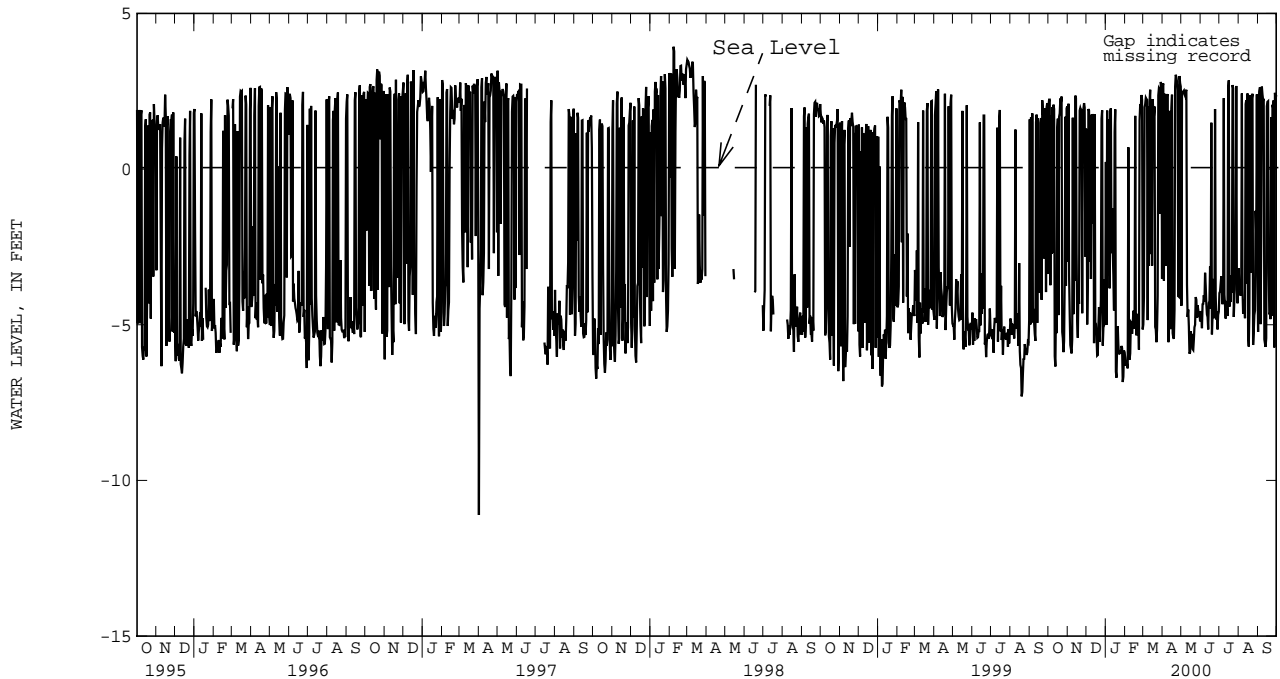
DORCHESTER COUNTY--Continued

DO Dh 27--Continued

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
(READINGS BELOW SEA LEVEL INDICATED BY "-")

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	3.08	2.66	3.15	-4.39	2.39	-4.56	2.94	-3.98	3.30	-3.18	2.91	-5.23
2	3.23	2.75	3.25	2.47	2.72	-4.73	2.89	-3.93	3.37	-4.03	2.87	1.90
3	3.13	-3.58	2.98	2.45	2.54	-5.11	3.01	-3.68	3.10	-3.74	3.00	2.50
4	3.21	2.42	3.06	2.49	2.42	-4.34	3.12	-3.44	2.81	-4.07	3.05	2.63
5	2.97	-2.09	3.22	2.52	2.56	-4.33	2.88	-3.93	2.73	-3.66	2.98	-4.98
6	2.93	-.59	3.02	2.40	2.58	-4.05	2.87	-4.34	3.13	2.43	2.89	-2.17
7	2.83	-3.11	2.94	2.35	2.46	-4.25	2.69	-3.69	3.13	-3.87	2.95	2.65
8	3.15	2.34	3.06	2.48	2.65	-3.33	2.89	2.28	2.68	-4.65	3.01	2.40
9	2.96	2.41	3.13	2.55	2.62	-3.74	2.97	-4.03	2.40	-4.42	2.82	2.22
10	2.42	-5.56	3.13	-3.71	2.50	-4.33	2.78	-4.39	2.62	-4.18	2.71	2.26
11	2.00	-5.45	2.72	-4.75	2.35	-4.67	2.50	-4.80	2.49	-4.79	2.74	-5.47
12	2.46	1.87	2.46	-4.51	2.33	-4.75	2.56	-4.28	2.62	2.09	2.53	-5.60
13	2.41	-5.05	2.56	-5.06	2.39	-5.15	2.66	-4.30	2.74	2.21	2.53	-5.71
14	2.43	-5.14	2.28	-5.93	2.62	-4.30	2.77	-4.72	2.88	-3.67	2.26	-5.43
15	2.70	1.95	1.64	-5.88	2.69	-4.24	3.11	2.54	3.07	2.43	2.81	2.02
16	2.87	2.39	1.83	-5.21	2.83	-3.13	3.25	2.85	3.17	-5.37	2.67	2.16
17	2.93	-5.27	2.37	-5.38	2.72	-4.48	3.32	-4.42	2.01	-5.70	2.73	2.18
18	2.61	-5.41	2.45	-5.36	2.52	1.49	2.92	-3.49	2.48	-4.63	2.55	-3.32
19	2.65	-5.45	2.39	-5.78	2.62	-5.31	3.01	-4.27	2.72	2.16	2.49	-4.67
20	2.92	-4.52	1.83	-5.81	2.23	-4.67	2.69	-3.41	2.89	2.38	2.46	-4.62
21	3.55	2.65	2.21	-5.48	2.53	-3.63	3.13	-3.96	2.77	-3.32	2.19	-4.82
22	3.49	3.03	2.47	-5.08	2.72	-3.53	3.13	2.70	2.81	2.28	2.37	1.67
23	3.39	2.94	2.69	-5.00	2.44	-4.79	3.07	2.60	2.98	2.42	2.41	-4.71
24	3.25	2.81	2.91	-4.11	2.70	1.93	3.05	-4.75	2.98	-5.65	2.53	2.07
25	3.13	2.53	2.63	-4.20	2.86	-4.05	2.77	-4.13	1.83	-5.22	2.55	1.97
26	3.02	-4.08	2.56	-4.77	2.57	-4.83	3.14	-2.90	2.19	-4.69	2.75	2.21
27	3.13	-4.10	2.41	-4.37	2.38	-4.56	3.23	-3.05	2.57	-4.54	2.81	-5.73
28	3.33	2.99	2.45	-4.52	2.51	-5.15	3.14	2.67	2.84	-1.34	3.01	2.45
29	3.19	2.76	2.44	-4.75	2.61	-4.68	3.32	-3.88	2.84	-2.11	2.79	2.23
30	3.24	2.65	2.59	-4.65	2.93	-4.58	3.17	-4.31	3.05	2.40	2.98	2.38
31	---	---	2.69	-4.89	---	---	3.18	-3.87	3.09	-3.45	---	---
MONTH	3.55	-5.56	3.25	-5.93	2.93	-5.31	3.32	-4.80	3.37	-5.70	3.05	-5.73
YEAR	3.55	-6.84										

Daily Low Water Levels



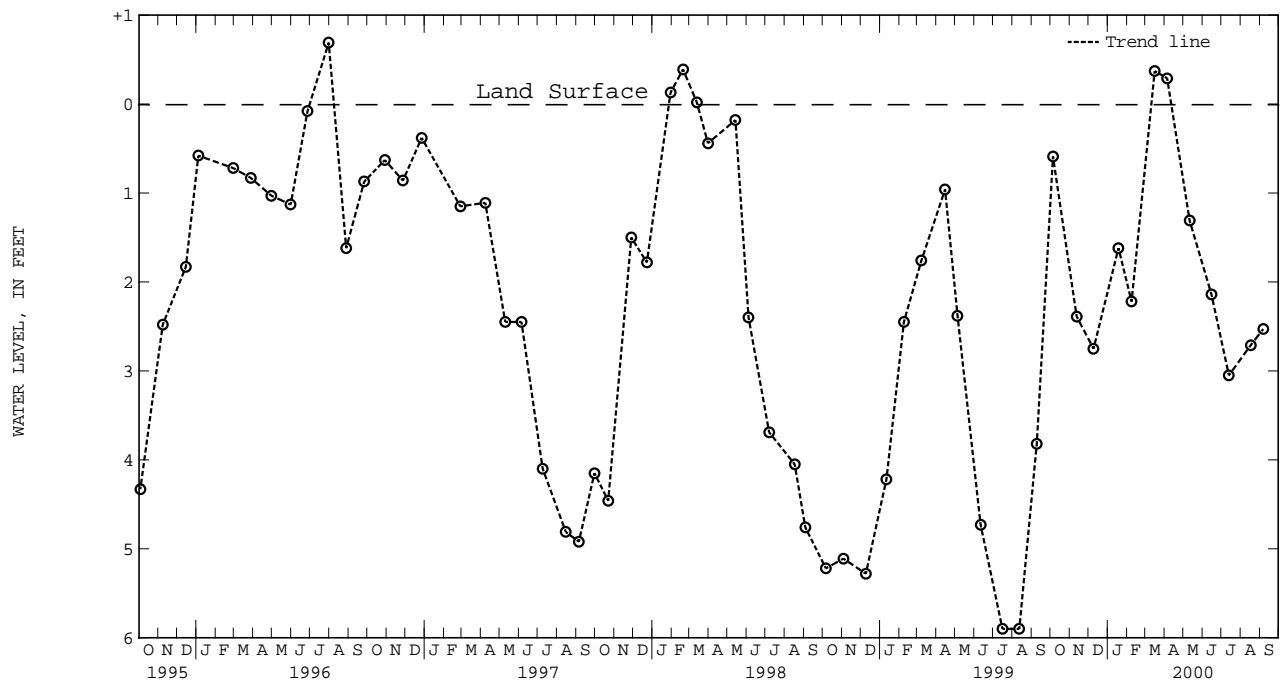
5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

FREDERICK COUNTY

WELL NUMBER.--FR Af 27. SITE ID.--394200077190701. PERMIT NUMBER.--FR-73-7155.
 LOCATION.--Lat 39°42'00", long 77°19'07", Hydrologic Unit 02070009, 0.3 mi southwest of U.S. Rt. 15 and MD Rt. 140, Emmitsburg.
 Owner: City of Emmitsburg.
 AQUIFER.--Gettysburg Shale of Upper Triassic age. Aquifer code: 231GBRG.
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 365 ft; casing diameter 6 in., to 41 ft; open hole.
 DATUM.--Elevation of land surface is 385 ft above sea level, from topographic map.
 Measuring point: Top of casing, 0.81 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well.
 PERIOD OF RECORD.--April 1982 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.69 ft above land surface, July 31, 1996;
 lowest measured, 5.90 ft below land surface, July 16, 1999, Aug. 12, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
 (READINGS ABOVE LAND SURFACE INDICATED BY "+")

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	.59	JAN 18, 2000	1.62	APR 05, 2000	+ .29	JUL 13, 2000	3.05
NOV 12	2.39	FEB 08	2.22	MAY 11	1.31	AUG 17	2.71
DEC 09	2.75	MAR 16	+ .37	JUN 15	2.14	SEP 06	2.53
WATER YEAR 2000 HIGHEST		+ .37 MAR 16, 2000		LOWEST		3.05 JUL 13, 2000	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

FREDERICK COUNTY--Continued

WELL NUMBER.--FR Cg 1. SITE ID.--393156077135701.

LOCATION.--Lat 39°31'56", long 77°13'57", Hydrologic Unit 02070009, at Johnsville.

Owner: Evan B. Evans, Jr.

AQUIFER.--Ijamsville Formation of Paleozoic age. Aquifer code: 300IJMV.

WELL CHARACTERISTICS.--Dug, stone-lined, domestic, water-table well, depth 43 ft; diameter 36 in.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 600 ft above sea level, from topographic map.

Measuring point: Top of wooden well cover, 0.60 ft above land surface.

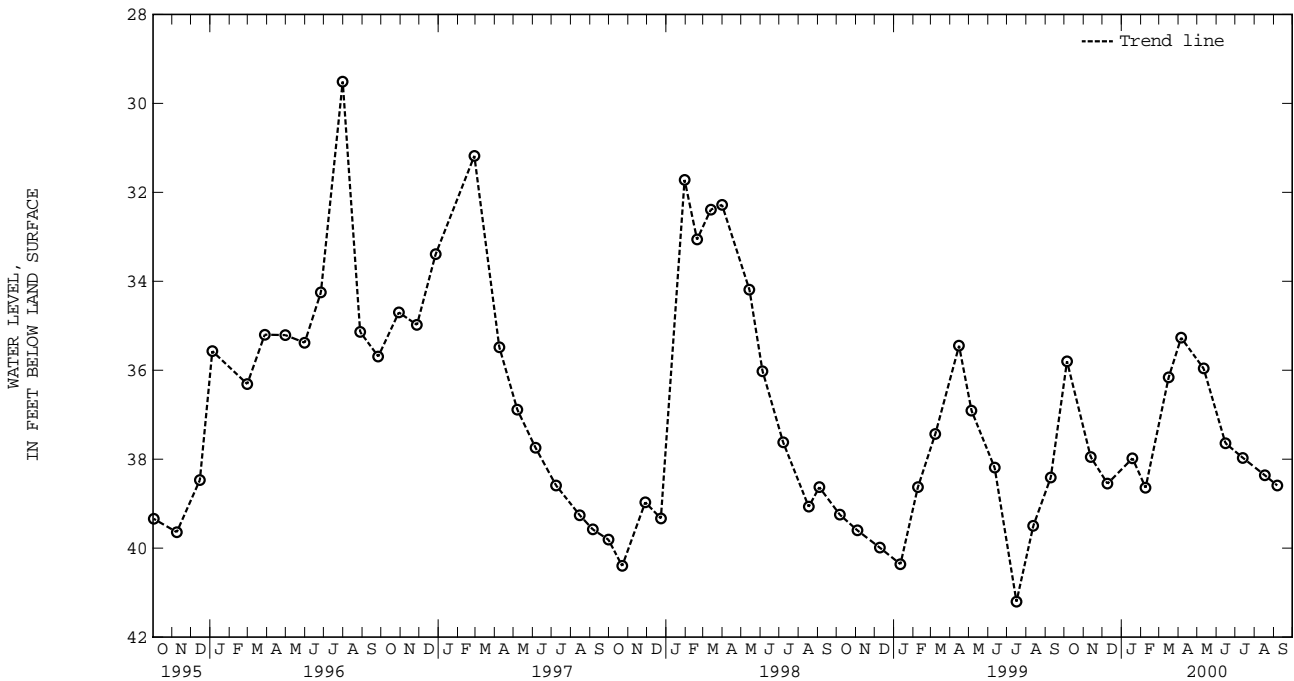
REMARKS.--Maryland Water-Level Network observation well. Residents use well as their primary water source.

PERIOD OF RECORD.--July 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.63 ft below land surface, Sept. 29, 1975; lowest measured, 42.02 ft below land surface, Oct. 5, 1982.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	35.80	JAN 18, 2000	37.98	APR 05, 2000	35.27	JUL 13, 2000	37.97
NOV 12	37.95	FEB 08	38.64	MAY 11	35.96	AUG 17	38.36
DEC 09	38.55	MAR 16	36.16	JUN 15	37.64	SEP 06	38.59
WATER YEAR 2000 HIGHEST		35.27	APR 05, 2000	LOWEST		38.64	FEB 08, 2000



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

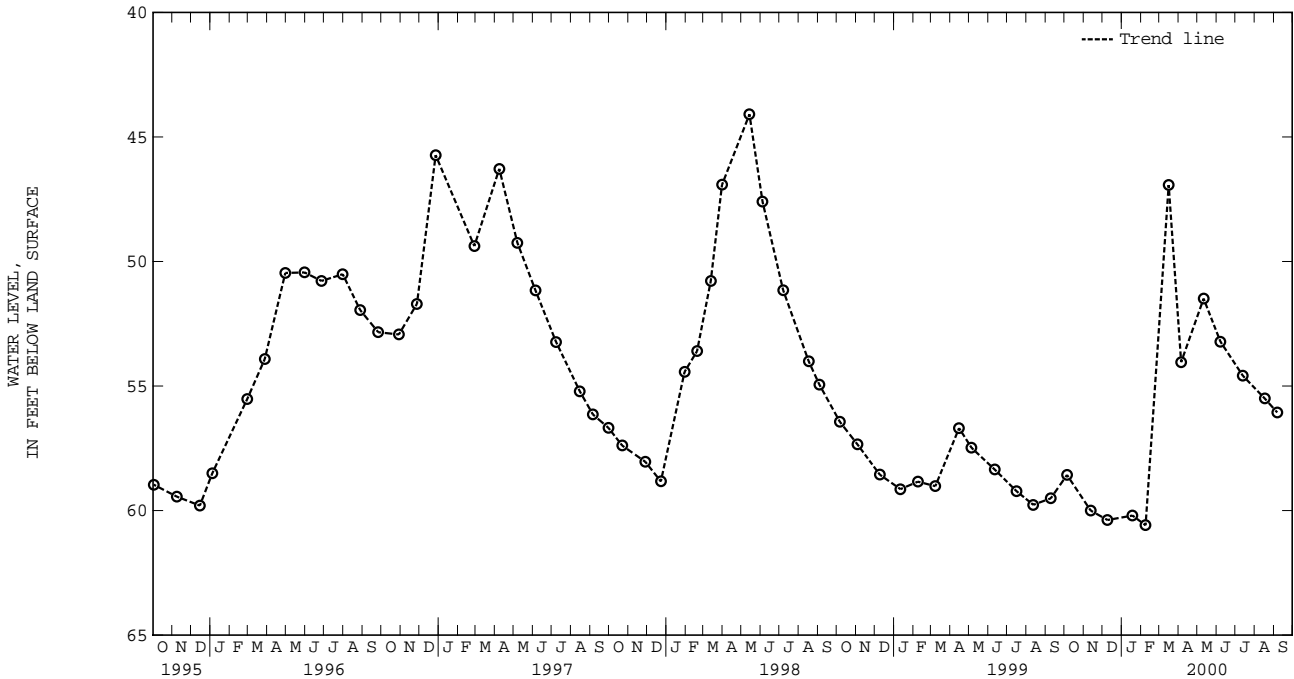
GROUND-WATER LEVELS IN MARYLAND--Continued

FREDERICK COUNTY--Continued

WELL NUMBER.--FR Df 35. SITE ID.--392517077190401. PERMIT NUMBER.--FR-73-0852.
 LOCATION.--Lat 39°25'17", long 77°19'04", Hydrologic Unit 02070009, north of Eaglehead Drive, near Lake Linganore.
 Owner: Lake Linganore Association.
 AQUIFER.--Sams Creek Metabasalt of Paleozoic age. Aquifer code: 300SMCK.
 WELL CHARACTERISTICS.--Drilled, unused, water-table well, depth 302 ft, casing diameter 6 in., to 26 ft, open hole.
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 570 ft above sea level, from topographic map.
 Measuring point: Top of casing, 1.00 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well.
 PERIOD OF RECORD.--May 1982 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 44.09 ft below land surface, May 14, 1998;
 lowest measured, 62.27 ft below land surface, Feb. 9, 1989.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	58.57	JAN 18, 2000	60.20	APR 05, 2000	54.04	JUL 13, 2000	54.59
NOV 12	60.00	FEB 08	60.59	MAY 11	51.49	AUG 17	55.50
DEC 09	60.38	MAR 16	46.93	JUN 07	53.22	SEP 06	56.06
WATER YEAR 2000 HIGHEST		46.93 MAR 16, 2000	LOWEST		60.59 FEB 08, 2000		



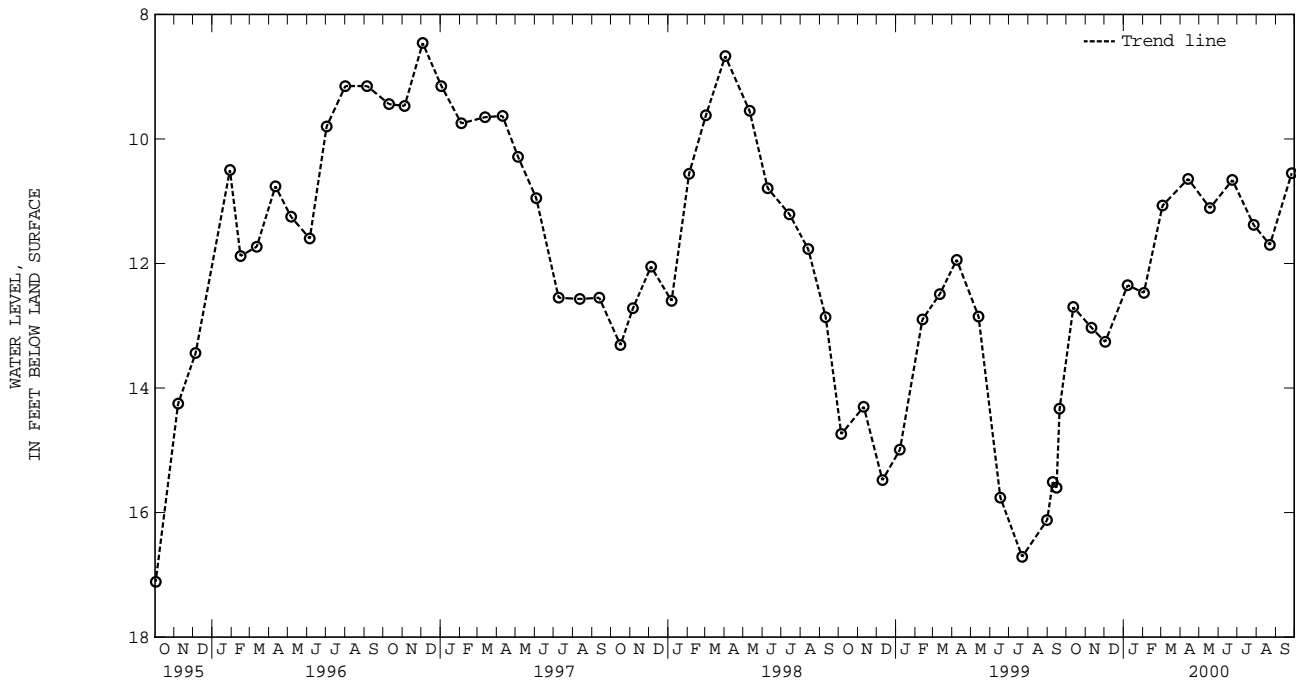
5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

FREDERICK COUNTY--Continued

WELL NUMBER.--FR Eh 11. SITE ID.--392257077095601. PERMIT NUMBER.--FR-81-0088.
 LOCATION.--Lat 39°22'57", long 77°09'56", Hydrologic Unit 02070009, 0.5 mi west of Mount Airy.
 Owner: Town of Mount Airy.
 AQUIFER.--Marburg Formation of Paleozoic age. Aquifer code: 300MRBG.
 WELL CHARACTERISTICS.--Drilled, unused, water-table well, depth 103 ft; casing diameter 6 in., to 22 ft; open hole.
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
 DATUM.-- Elevation of land surface is 650 ft above sea level, from topographic map.
 Measuring point: Top of casing, 1.85 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well.
 PERIOD OF RECORD.-- November 1981 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.28 ft below land surface, April 5, 1993;
 lowest measured, 20.19 ft below land surface, Sept. 11, 1995.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 12, 1999	12.70	JAN 07, 2000	12.35	APR 13, 2000	10.64	JUL 27, 2000	11.38
NOV 10	13.03	FEB 02	12.47	MAY 18	11.11	AUG 22	11.70
DEC 02	13.26	MAR 03	11.07	JUN 23	10.66	SEP 26	10.55
WATER YEAR 2000 HIGHEST		10.55	SEP 26, 2000		LOWEST	13.26	DEC 02, 1999



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GARRETT COUNTY

WELL NUMBER.--GA Ag 1. SITE ID.--394017078581701.

LOCATION.--Lat 39°40'17", long 78°58'17", Hydrologic Unit 02070002, in the Savage River Valley, 2.5 mi northwest of Frostburg.

Owner: Town of Frostburg.

AQUIFER.--Pocono Formation of Lower Mississippian age. Aquifer code: 337POCN.

WELL CHARACTERISTICS.--Drilled, unused, water-table well, Reported depth 30 ft, measured depth 14 ft; casing diameter 8 in., to unknown depth; open hole.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 2,530 ft above sea level, from topographic map.

Measuring point: Top of casing at land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels affected by local ground-water withdrawal.

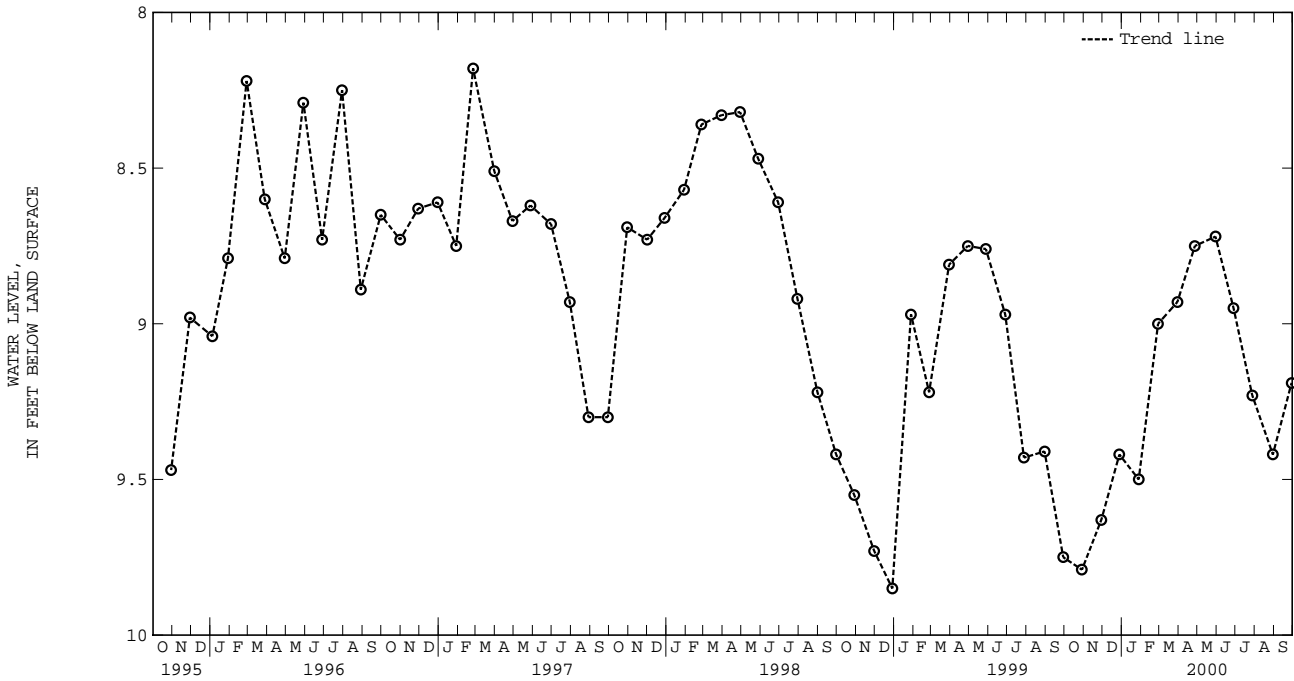
PERIOD OF RECORD.--October 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.71 ft below land surface, Jan. 14, 1950;

lowest measured, 14.59 ft below land surface, Jan. 28, 1985.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29, 1999	9.79	JAN 28, 2000	9.50	APR 27, 2000	8.75	JUL 28, 2000	9.23
NOV 29	9.63	FEB 28	9.00	MAY 30	8.72	AUG 30	9.42
DEC 28	9.42	MAR 30	8.93	JUN 28	8.95	SEP 29	9.19
WATER YEAR 2000 HIGHEST		8.72	MAY 30, 2000 LOWEST		9.79	OCT 29, 1999	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GARRETT COUNTY--Continued

WELL NUMBER.--GA Bc 1. SITE ID.--393749079190301.

LOCATION.--Lat 39°37'49", long 79°19'03", Hydrologic Unit 05020006, at Accident.

Owner: Mabel A. Georg.

AQUIFER.--Hampshire Formation of Upper Devonian age. Aquifer code: 341HMPR.

WELL CHARACTERISTICS.--Dug, stone-lined, domestic, water-table well, depth 20 ft; diameter 36 in.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 2,415 ft above sea level, from topographic map.

Measuring point: Top of 1 in. board cover, 2.30 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--August 1949 to current year.

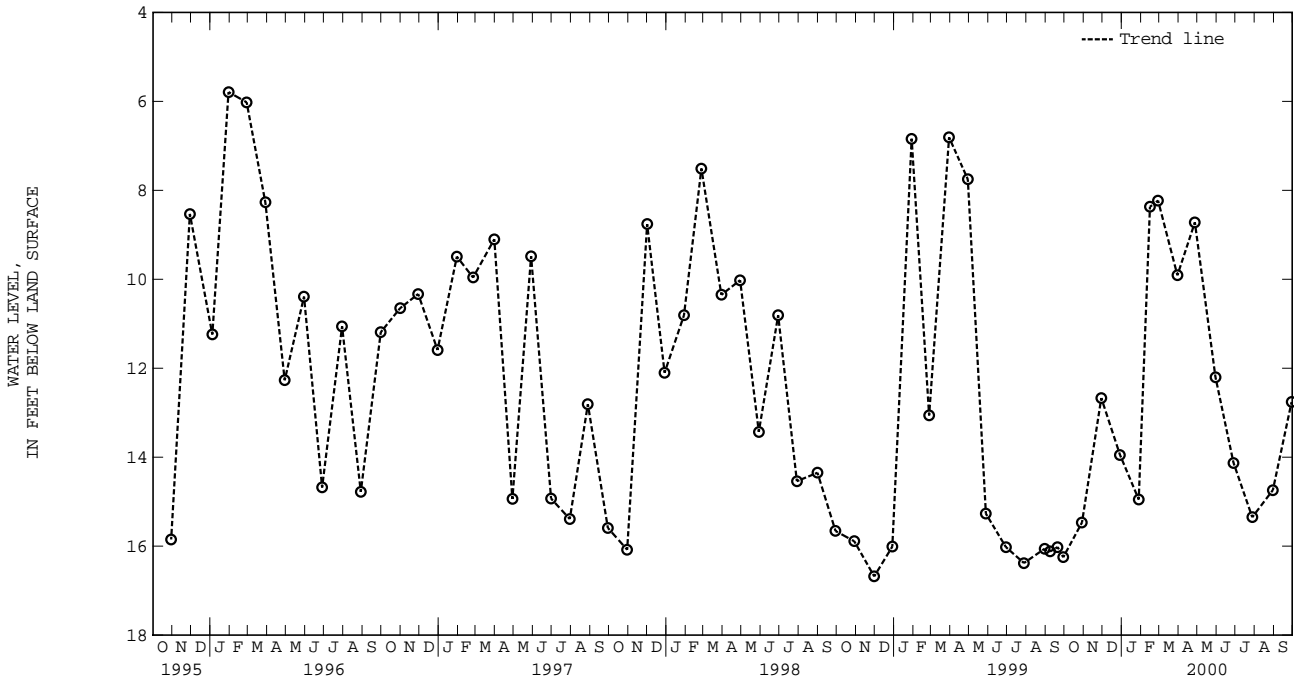
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.25 ft below land surface, March 6, 1979;

lowest measured, 19.65 ft below land surface, Dec. 9, 1953.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29, 1999	15.47	FEB 15, 2000	8.37	MAY 30, 2000	12.20	SEP 29, 2000	12.76
NOV 29	12.67	28	8.23	JUN 28	14.13		
DEC 29	13.95	MAR 30	9.91	JUL 28	15.35		
JAN 28, 2000	14.95	APR 27	8.72	AUG 30	14.74		

WATER YEAR 2000 HIGHEST 8.23 FEB 28, 2000 LOWEST 15.47 OCT 29, 1999



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

GARRETT COUNTY--Continued

WELL NUMBER.--GA Eb 78. SITE ID.--392439079231801. PERMIT NUMBER.--GA-88-0611.

LOCATION.--Lat 39°24'39", long 79°23'18", Hydrologic Unit 05020006, at Southern Pines, near Broadford Road and Southern Pines Drive, Mountain Lake Park.

Owner: Jonathan Kessler.

AQUIFER.--Jennings Formation of Upper Devonian age. Aquifer code: 341JNGS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 307 ft; casing diameter 6 in., to 40 ft; open hole.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 2,500 ft above sea level, from topographic map.

Measuring point: Top of casing 1.00 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

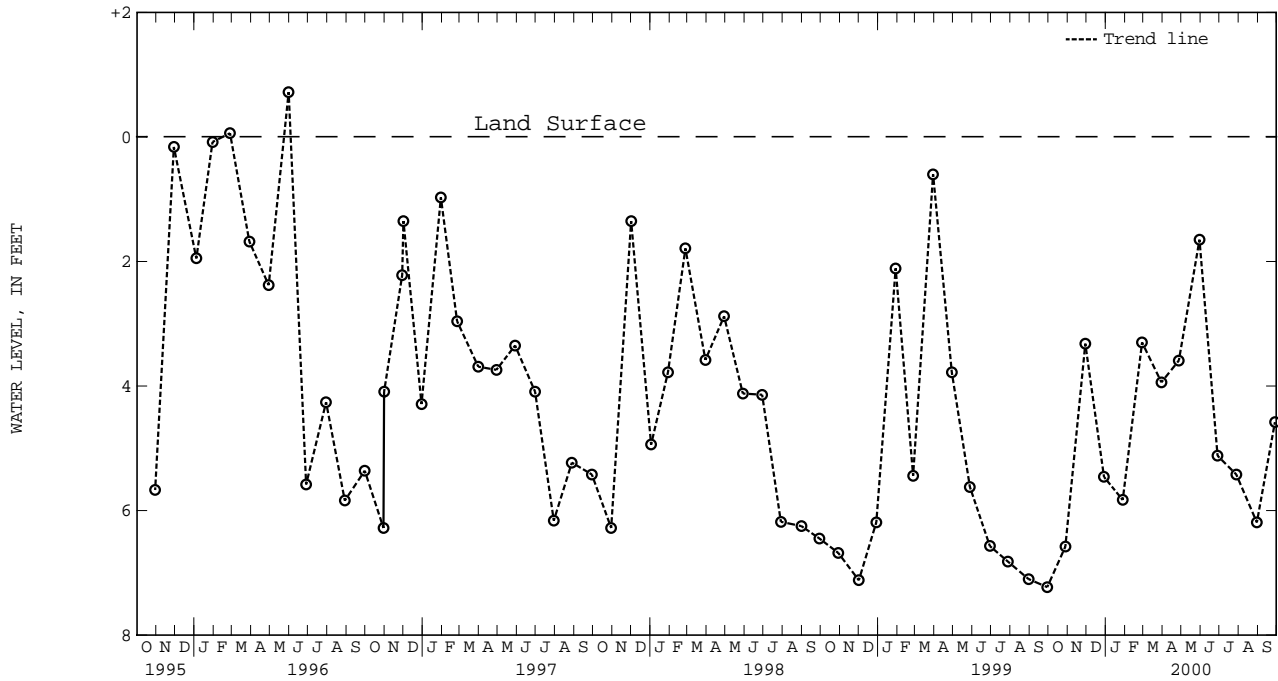
PERIOD OF RECORD.--March 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, flowing on March 29, 1993 and March 30, 1994;

lowest measured, 9.12 ft below land surface, Aug. 30, 1993.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28, 1999	6.58	JAN 28, 2000	5.83	APR 27, 2000	3.59	JUL 28, 2000	5.42
NOV 29	3.32	FEB 28	3.30	MAY 30	1.65	AUG 30	6.19
DEC 29	5.46	MAR 30	3.94	JUN 28	5.12	SEP 28	4.58
WATER YEAR 2000 HIGHEST		1.65	MAY 30, 2000 LOWEST		6.58	OCT 28, 1999	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GARRETT COUNTY--Continued

WELL NUMBER.--GA Fa 28. SITE ID.--391512079270901. PERMIT NUMBER.--GA-73-1697.

LOCATION.--Lat 39°15'12", long 79°27'09", Hydrologic Unit 02070002, on south side of Red Oak Road, 0.6 mi west from the intersection with Kempton Road, 2.6 mi west of Wilson.

Owner: Mettiki Coal Corp.

AQUIFER.--Conemaugh Formation of Upper Pennsylvanian age. Aquifer code: 321CNMG.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 341 ft; casing diameter 6 in., to 317 ft; open hole.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 2,890 ft above sea level, from topographic map.

Measuring Point: Top of casing, 1.50 ft above land surface.

REMARKS.--Hydrologic Effects of Mining, Phase III Project observation well. Water levels are affected by coal mining operations.

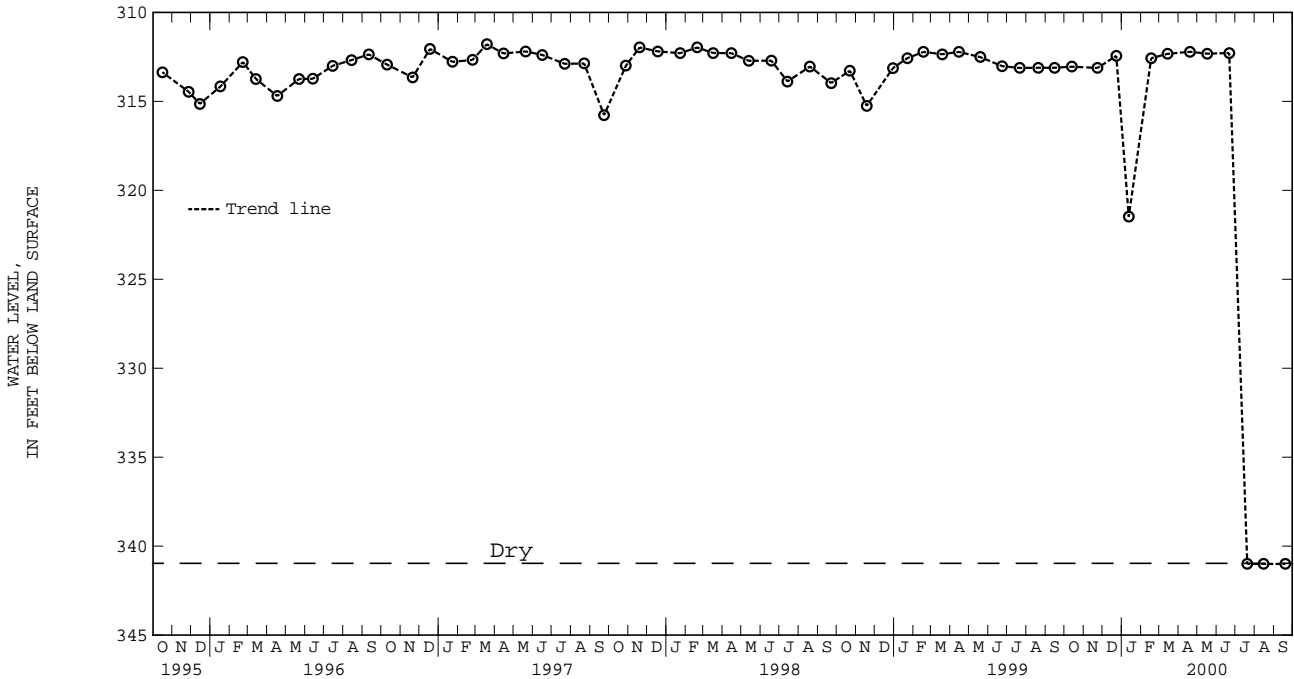
PERIOD OF RECORD.--June 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 100.60 ft below land surface, Dec. 14, 1978;

lowest measured dry at 341.00 ft below land surface, May 16, 1985, July 20, Aug. 15, and Sept. 19, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1999	313.05	JAN 12, 2000	321.48	APR 19, 2000	312.21	JUL 20, 2000	Dry
NOV 23	313.12	FEB 17	312.57	MAY 17	312.32	AUG 15	Dry
DEC 23	312.44	MAR 14	312.33	JUN 21	312.28	SEP 19	Dry
WATER YEAR 2000 HIGHEST 312.21		APR 19, 2000		LOWEST 321.48		JAN 12, 2000	



GROUND-WATER LEVELS IN MARYLAND--Continued

GARRETT COUNTY--Continued

WELL NUMBER.--GA Fa 29. SITE ID.--391512079270902. PERMIT NUMBER.--GA-73-1698.

LOCATION.--Lat 39°15'12", long 79°27'09", Hydrologic Unit 02070002, on south side of Red Oak Road, 0.9 mi west from intersection with Kempton Road, 2.6 mi west of Wilson.

Owner: Mettiki Coal Corp.

AQUIFER.--Conemaugh Formation of Upper Pennsylvanian age. Aquifer code: 321CNMG.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 226 ft; casing diameter 6 in., to 203 ft; open hole.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 2,890 ft above sea level, from topographic map.

Measuring point: Top of casing, 2.00 ft above land surface.

REMARKS.--Hydrologic Effects of Mining, Phase III Project observation well. Water levels are affected by coal mining operations.

PERIOD OF RECORD.--June 1978 to current year.

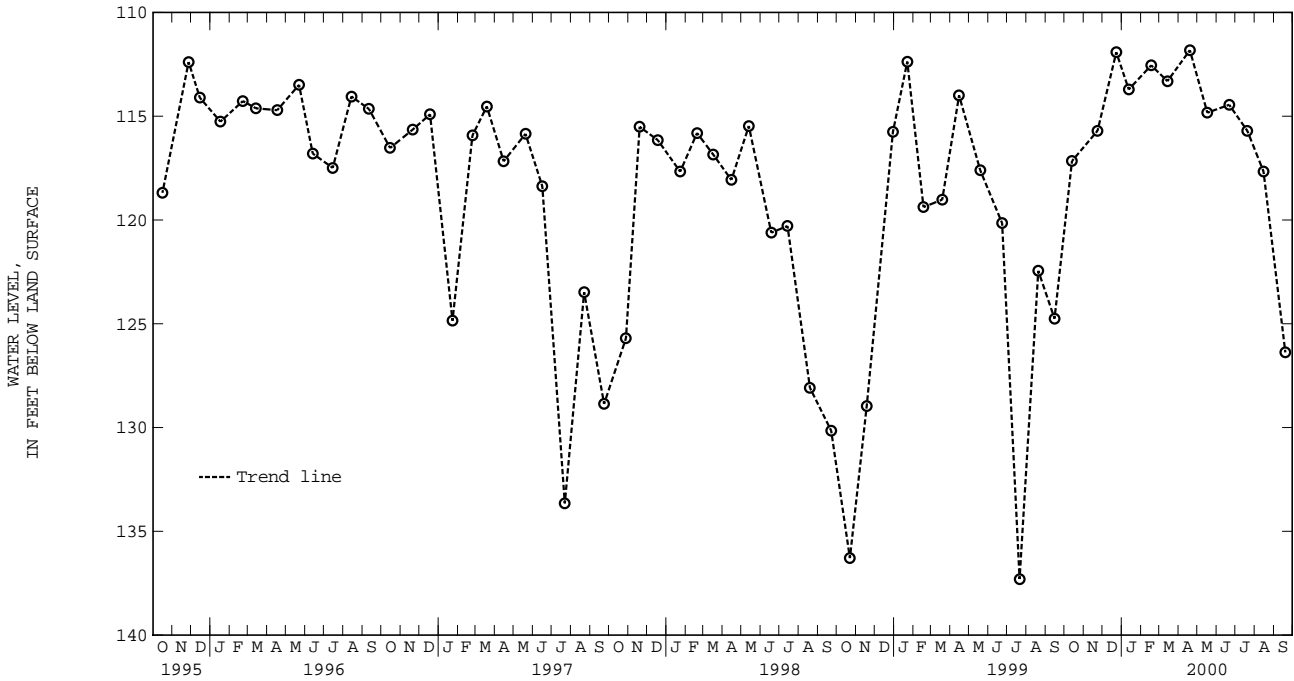
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 106.95 ft below land surface, March 30, 1993;

lowest water level measured, dry on Nov. 17, 18, 1982, Dec. 28, 1982, Feb. 18, 1983.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1999	117.16	JAN 12, 2000	113.71	APR 19, 2000	111.82	JUL 20, 2000	115.70
NOV 23	115.70	FEB 17	112.55	MAY 17	114.83	AUG 15	117.66
DEC 23	111.92	MAR 14	113.31	JUN 21	114.45	SEP 19	126.38

WATER YEAR 2000 HIGHEST 111.82 APR 19, 2000 LOWEST 126.38 SEP 19, 2000



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GARRETT COUNTY--Continued

WELL NUMBER.--GA Fa 31. SITE ID.--391539079254601. PERMIT NUMBER.--GA-73-2142.

LOCATION.--Lat 39°15'37", long 79°25'45", Hydrologic Unit 02070002, on north side of coal conveyor belt, 450 ft west of Table Rock Road, 1.7 mi west of Wilson.

Owner: U.S. Geological Survey.

AQUIFER.--Allegheny Formation of Middle Pennsylvanian age. Aquifer code: 324ALGN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 606 ft; casing diameter 8 in., to 25.5 ft; casing diameter 4 in., to 470 ft; open hole.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval.

DATUM.--Elevation of land surface is 2,618 ft above sea level, from topographic map.

Measuring point: Top of casing, 2.60 ft above land surface.

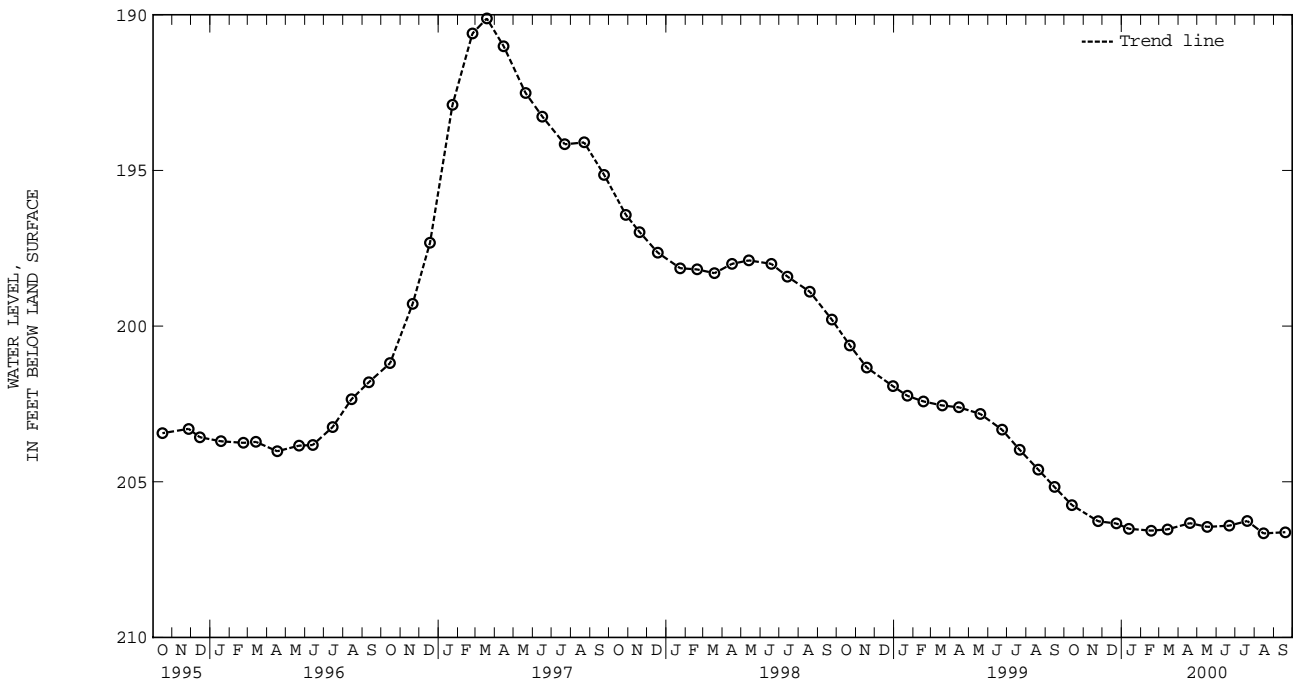
REMARKS.--Hydrologic Effects of Mining, Phase III Project observation well. Water levels are affected by coal mining operations.

PERIOD OF RECORD.--April 1980 to to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.31 ft below land surface, April 8, 1980; lowest measured, 206.66 ft below land surface, Aug. 15, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1999	205.75	JAN 12, 2000	206.51	APR 19, 2000	206.33	JUL 20, 2000	206.26
NOV 24	206.27	FEB 17	206.57	MAY 17	206.45	AUG 15	206.66
DEC 23	206.34	MAR 14	206.53	JUN 21	206.41	SEP 19	206.62
WATER YEAR 2000 HIGHEST 205.75 OCT 13, 1999		LOWEST 206.66		AUG 15, 2000			



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GARRETT COUNTY--Continued

WELL NUMBER.--GA Fa 32. SITE ID.--391539079254602. PERMIT NUMBER.--GA-73-2143.

LOCATION.--Lat 39°15'39", long 79°25'46", Hydrologic Unit 02070002, on north side of coal conveyor belt, 450 ft west of Table Rock Road, 1.7 mi west of Wilson.

Owner: U.S. Geological Survey.

AQUIFER.--Conemaugh Formation of Upper Pennsylvanian age. Aquifer code: 321CNMG.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 473 ft; casing diameter 8 in., to 23 ft; casing diameter 4 in., to 430 ft; open hole.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from July 21, 1980 to April 8, 1981.

DATUM.--Elevation of land surface is 2,618 ft above sea level, from topographic map.

Measuring point: Top of casing, 3.15 ft above land surface.

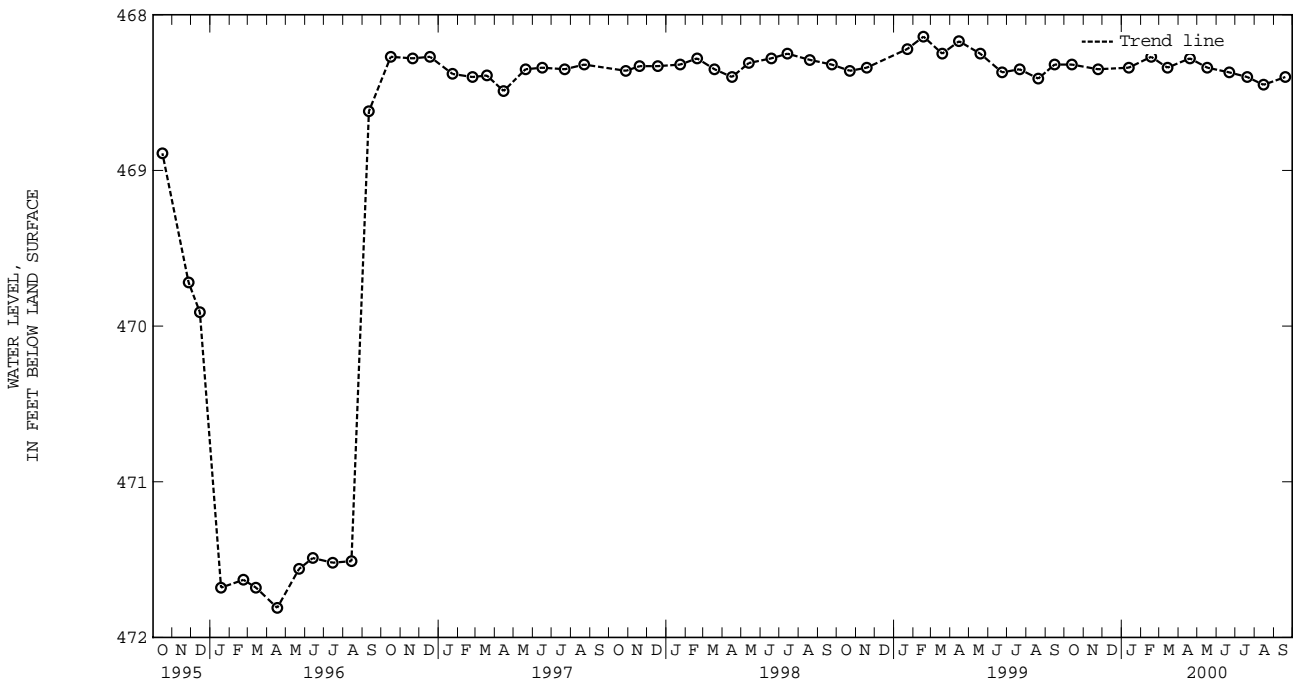
REMARKS.--Hydrologic Effects of Mining, Phase III Project observation well. Water levels are affected by coal mining operations.

PERIOD OF RECORD.--February 1980 to to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.55 ft below land surface, Feb. 27, 1980; lowest measured, 474.80 ft below land surface, July 16, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1999	468.32	FEB 17, 2000	468.27	MAY 17, 2000	468.34	AUG 15, 2000	468.45
NOV 24	468.35	MAR 14	468.34	JUN 21	468.37	SEP 19	468.40
JAN 12, 2000	468.34	APR 19	468.28	JUL 20	468.40		
WATER YEAR 2000 HIGHEST 468.27 FEB 17, 2000		LOWEST 468.45		AUG 15, 2000			



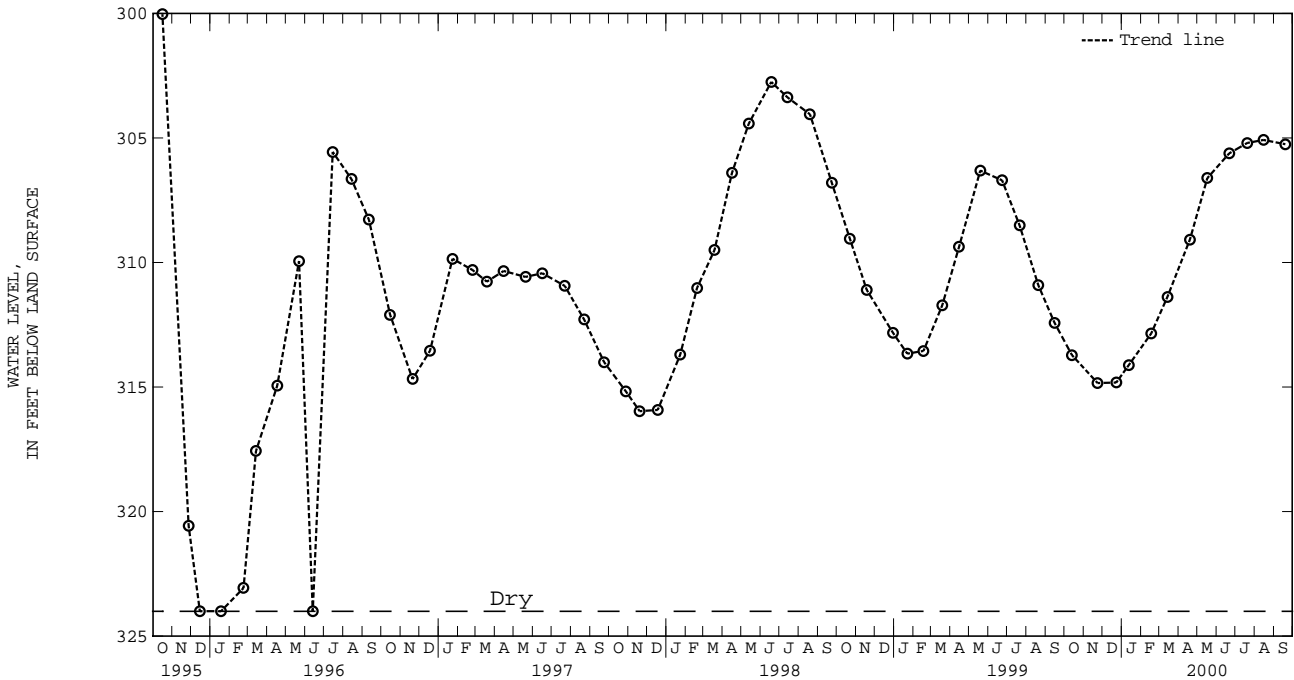
5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GARRETT COUNTY--Continued

WELL NUMBER.--GA Fa 33. SITE ID.--391539079254603. PERMIT NUMBER.--GA-73-2144.
 LOCATION.--Lat 39°15'39", long 79°25'46", Hydrologic Unit 02070002, on north side of coal conveyor belt, 450 ft west of Table Rock Road, 1.7 mi west of Wilson.
 Owner: U.S. Geological Survey.
 AQUIFER.--Conemaugh Formation of Upper Pennsylvanian age. Aquifer code: 321CNMG.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 391 ft; measured depth of 324 ft on Dec. 15, 1995, (see REMARKS); casing diameter 8 in., to 23 ft; casing diameter 4 in., to 318 ft; open hole.
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital recorder--60-minute recorder interval from July 21, 1980 to Oct. 14, 1982.
 DATUM.--Elevation of land surface is 2,618 ft above sea level, from topographic map.
 Measuring point: Top of casing, 3.00 ft above land surface.
 REMARKS.--Hydrologic Effects of Mining, Phase III Project observation well. Water levels are affected by coal mining operations. Prior to Dec. 15, 1995 the well was undermined and collapsed, the depth of the well is now 324 ft.
 PERIOD OF RECORD.--February 1980 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.31 ft below land surface, Feb. 27, 1978; lowest measured, dry at 324 ft below land surface on Dec. 15, 1995, Jan 18, June 13, 1996.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1999	313.72	JAN 12, 2000	314.12	APR 19, 2000	309.08	JUL 20, 2000	305.20
NOV 23	314.84	FEB 17	312.85	MAY 17	306.61	AUG 15	305.08
DEC 23	314.82	MAR 14	311.38	JUN 21	305.62	SEP 19	305.25
WATER YEAR 2000 HIGHEST 305.08		AUG 15, 2000		LOWEST 314.84		NOV 23, 1999	



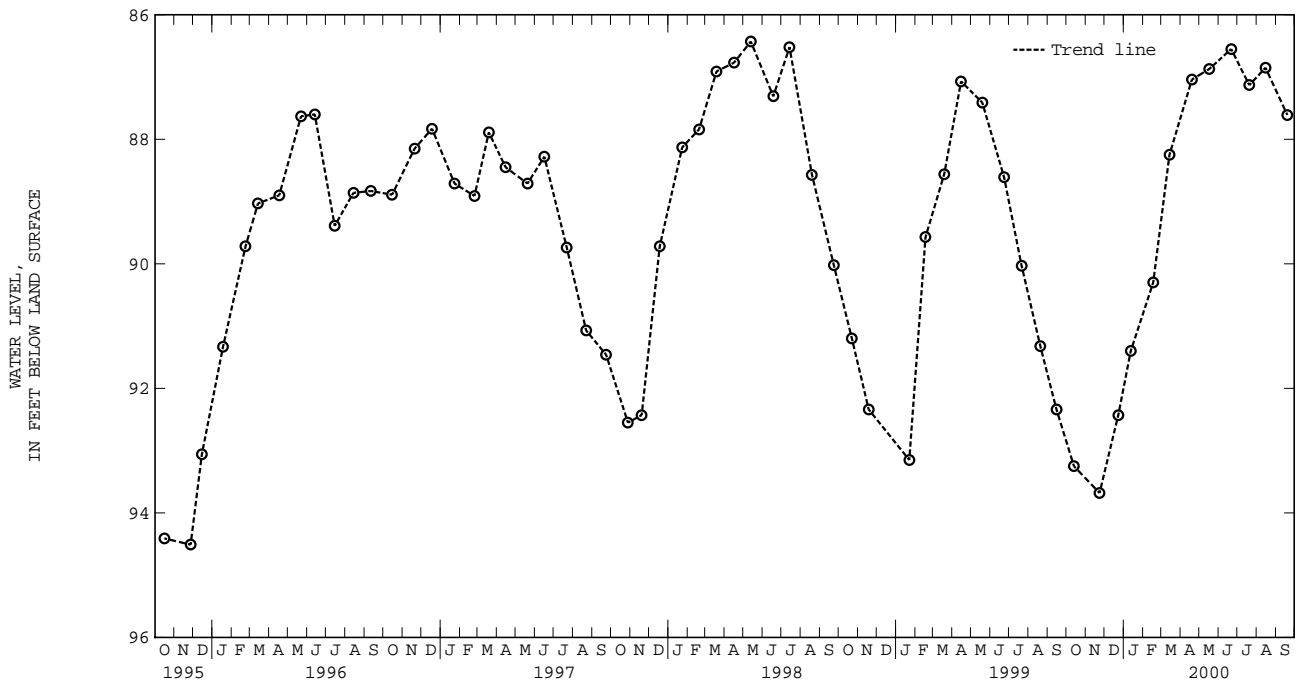
5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GARRETT COUNTY--Continued

WELL NUMBER.--GA Fa 34. SITE ID.--391539079254604. PERMIT NUMBER.--GA-73-2145.
 LOCATION.--Lat 39°15'39", long 79°25'46", Hydrologic Unit 02070002, on north side of coal conveyor belt, 450 ft west of Table Rock Road, 1.7 mi west of Wilson.
 Owner: U.S. Geological Survey.
 AQUIFER.--Conemaugh Formation of Upper Pennsylvanian age. Aquifer code: 321CNMG.
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 115 ft; casing diameter 8 in., to 23.5 ft; casing diameter 4 in., to 96 ft; open hole.
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval, from July 21, 1980 to Oct 19, 1990.
 DATUM.--Elevation of land surface is 2,618 ft above sea level, from topographic map.
 Measuring point: Top of casing, 3.00 ft above land surface.
 REMARKS.--Hydrologic Effects of Mining, Phase III Project observation well.
 PERIOD OF RECORD.--February 1980 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.05 ft below land surface, Feb. 26, 1980; lowest measured, 95.25 ft below land surface, Dec. 11, 1991.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1999	93.25	JAN 12, 2000	91.40	APR 19, 2000	87.04	JUL 20, 2000	87.13
NOV 23	93.68	FEB 17	90.30	MAY 17	86.87	AUG 15	86.85
DEC 23	92.43	MAR 14	88.25	JUN 21	86.55	SEP 19	87.61
WATER YEAR 2000 HIGHEST 86.55		JUN 21, 2000		LOWEST 93.68		NOV 23, 1999	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GARRETT COUNTY--Continued

WELL NUMBER.--GA Fa 38. SITE ID.--391501079260001. PERMIT NUMBER.--GA-73-2125.

LOCATION.--Lat 39°15'01", long 79°26'00", Hydrologic Unit 02070002, at intersection of Kempton Road, and Dobbin Road, 3.6 mi south of Table Rock.

Owner: Curtis Glotfelty.

AQUIFER.--Conemaugh Formation of Upper Pennsylvanian age. Aquifer code: 321CNMG.

WELL CHARACTERISTICS.--Drilled, domestic, water-table well, depth 118 ft, casing diameter 6 in., to 39 ft; open hole.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 2,680 ft above sea level, from topographic map.

Measuring point: Top of casing, 1.00 ft above land surface.

REMARKS.--Hydrologic Effects of Mining, Phase III Project observation well. Water levels are affected by nearby mining operations.

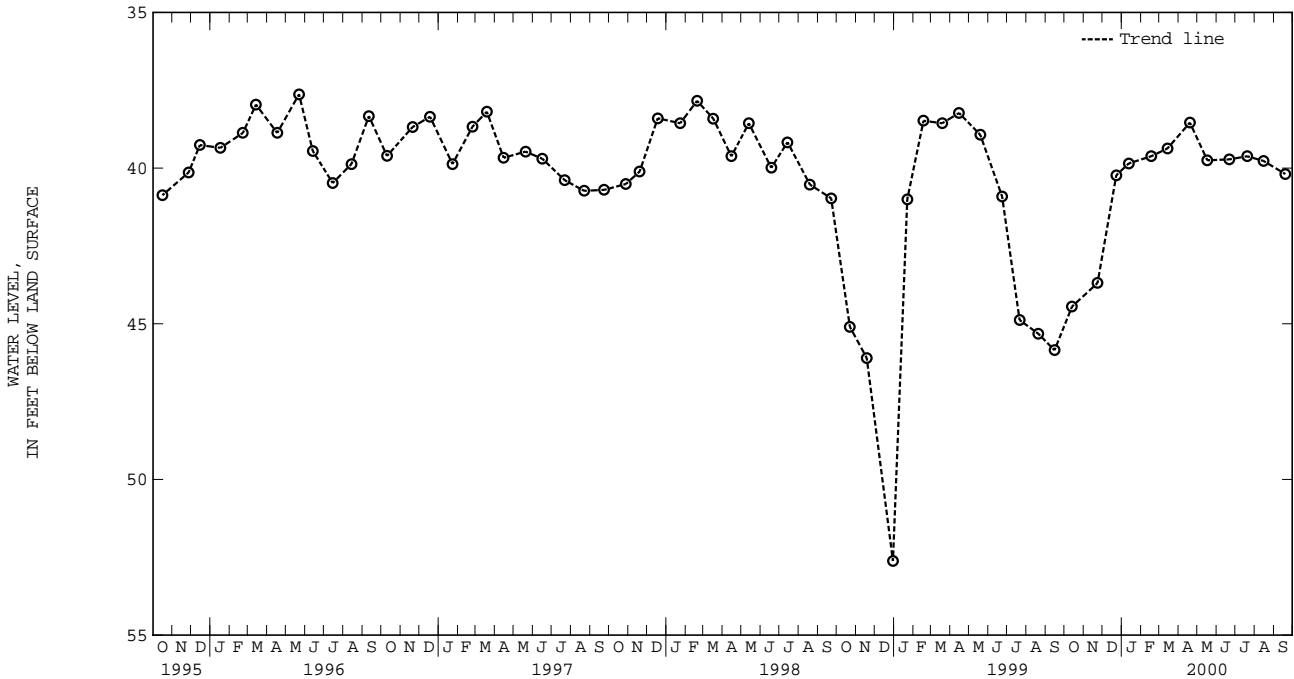
PERIOD OF RECORD.--February 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 35.46 ft below land surface, March 30, 1993;

lowest measured, 59.72 ft below land surface, Oct. 14, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1999	44.45	JAN 12, 2000	39.85	APR 19, 2000	38.54	JUL 20, 2000	39.62
NOV 23	43.69	FEB 17	39.62	MAY 17	39.75	AUG 15	39.77
DEC 23	40.23	MAR 14	39.37	JUN 21	39.72	SEP 19	40.19
WATER YEAR 2000 HIGHEST		38.54	APR 19, 2000		LOWEST		44.45
						OCT 13, 1999	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

GARRETT COUNTY--Continued

WELL NUMBER.--GA Fb 22. SITE ID.--391530079244401. PERMIT NUMBER.--GA-73-2146.

LOCATION.--Lat 39°15'30", long 79°24'44", Hydrologic Unit 02070002, south side of Wilson Road, 500 ft west of the intersection with Wilson-Coronna Road, 0.4 mi northwest of Wilson.

Owner: U.S. Geological Survey.

AQUIFER.--Allegheny Formation of Middle Pennsylvanian age. Aquifer code: 324ALGN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 640 ft; casing diameter 4 in., to 517 ft; open hole.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval, from May 15, 1980 to Oct 1990.

DATUM.--Elevation of land surface is 2,530 ft above sea level, from topographic map.

Measuring point: Top of casing, 3.0 ft above land surface.

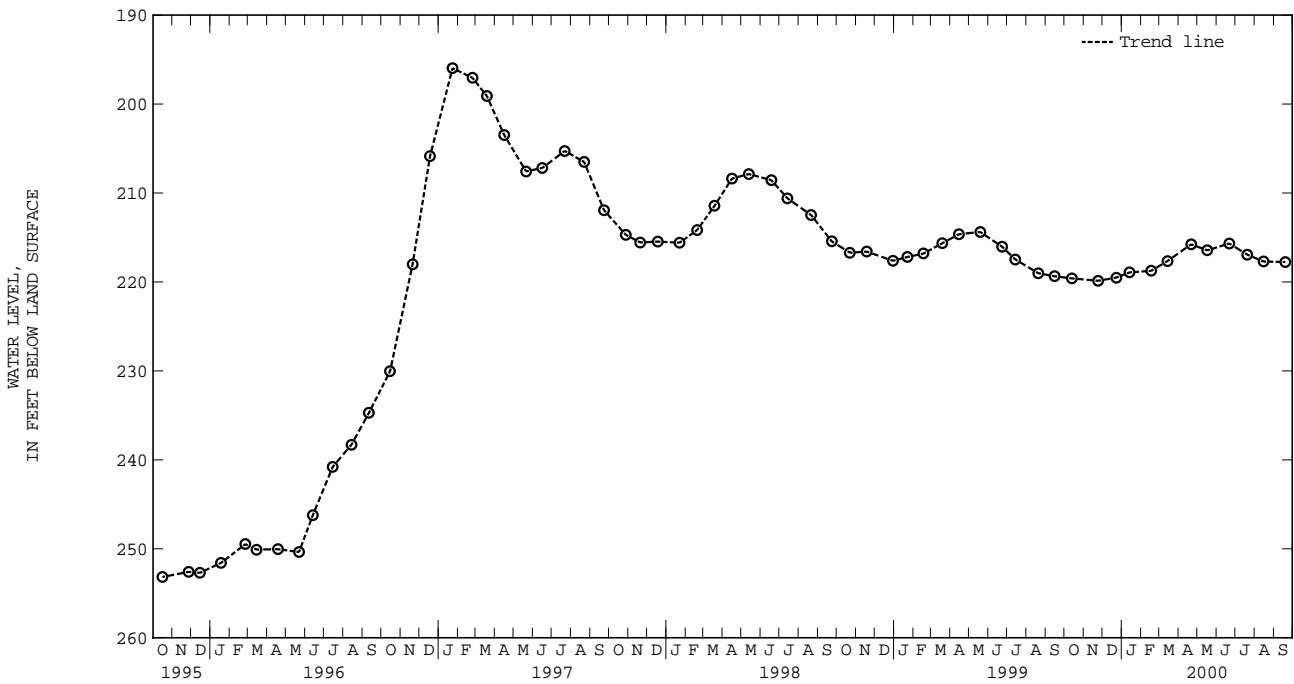
REMARKS.--Hydrologic Effects of Mining, Phase III Project observation well. Water levels are affected by coal mining operations.

PERIOD OF RECORD.--April 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 63.59 ft below land surface, April 8, 1980; lowest measured, 253.17 ft below land surface, Oct. 16, 1995.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1999	219.60	JAN 13, 2000	218.93	APR 21, 2000	215.77	JUL 20, 2000	216.93
NOV 24	219.87	FEB 17	218.75	MAY 17	216.45	AUG 15	217.70
DEC 23	219.51	MAR 14	217.65	JUN 21	215.67	SEP 19	217.76
WATER YEAR 2000 HIGHEST 215.67 JUN 21, 2000		LOWEST 219.87 NOV 24, 1999					



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GARRETT COUNTY--Continued

WELL NUMBER.--GA Fb 24. SITE ID.--391530079244403. PERMIT NUMBER.--GA-73-2177.

LOCATION.--Lat 39°15'30", long 79°24'44", Hydrologic Unit 02070002, south side of Wilson Road, 500 ft west of the intersection with Wilson-Coronna Road, 0.4 mi northwest of Wilson.

Owner: U.S. Geological Survey.

AQUIFER.--Conemaugh Formation of Upper Pennsylvanian age. Aquifer code: 321CNMG.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 400 ft; casing diameter 4 in., to 340 ft; open hole.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval, from May 15, 1980, to Oct. 19, 1990.

DATUM.--Elevation of land surface is 2,530 ft above sea level, from topographic map.

Measuring point: Top of casing, 3.00 ft above land surface.

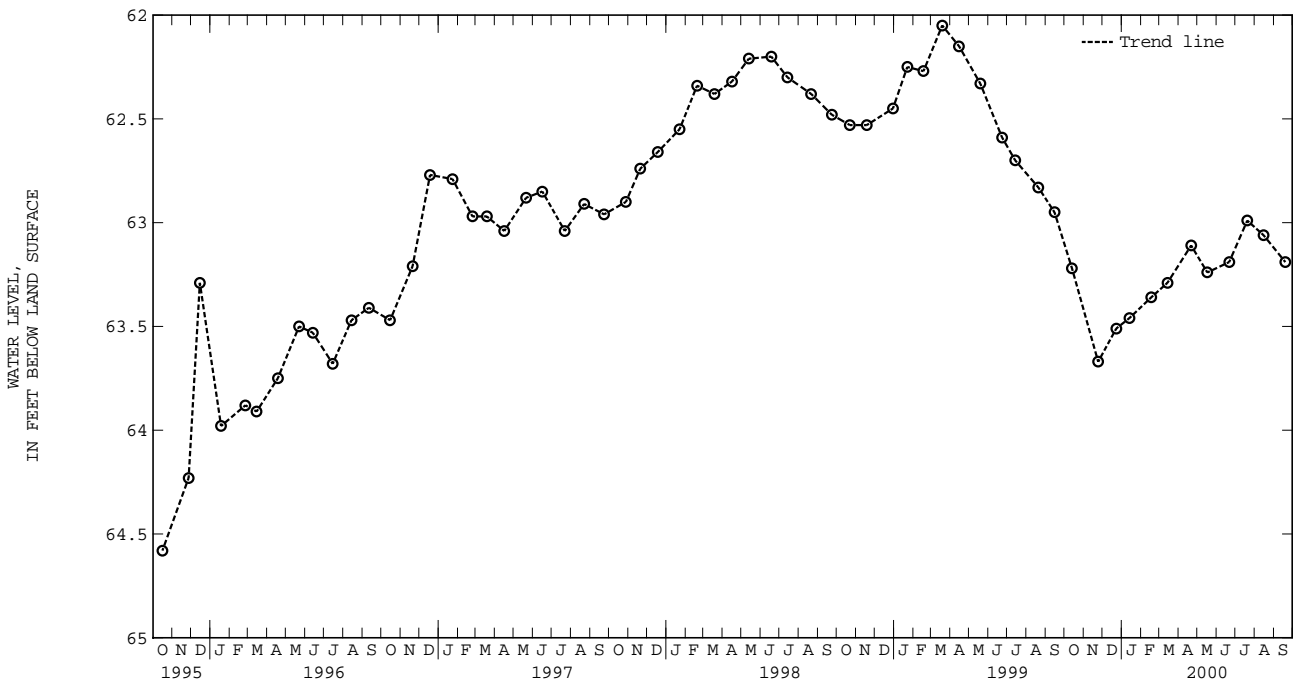
REMARKS.--Hydrologic Effects of Mining, Phase III Project observation well. Water levels are affected by coal mining operations.

PERIOD OF RECORD.--April 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.08 ft below land surface, Jan. 12, 1981; lowest measured, 92.29 ft below land surface, April 28, 1981.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1999	63.22	JAN 13, 2000	63.46	APR 21, 2000	63.11	JUL 20, 2000	62.99
NOV 24	63.67	FEB 17	63.36	MAY 17	63.24	AUG 15	63.06
DEC 23	63.51	MAR 14	63.29	JUN 21	63.19	SEP 19	63.19
WATER YEAR 2000 HIGHEST 62.99		JUL 20, 2000		LOWEST 63.67		NOV 24, 1999	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

GARRETT COUNTY--Continued

WELL NUMBER.--GA Fb 25. SITE ID.--391530079244404. PERMIT NUMBER.--GA-73-2178.

LOCATION.--Lat 39°15'30", long 79°24'44", Hydrologic Unit 02070002, south side of Wilson Road, 500 ft west of the intersection with Wilson-Coronna Road, 0.4 mi northwest of Wilson.

Owner: U.S. Geological Survey.

AQUIFER.--Conemaugh Formation of Upper Pennsylvanian age. Aquifer code: 321CNMG.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 180 ft; casing diameter 4 in., to 120 ft; open hole

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital

water-level recorder--60-minute recorder interval from June 4, 1980 to Oct. 19, 1990.

DATUM.--Elevation of land surface is 2,530 ft above sea level, from topographic map.

Measuring point: Top of casing, 3.00 ft above land surface.

REMARKS.--Hydrologic Effects of Mining, Phase III Project observation well. Water levels are affected by coal mining operations.

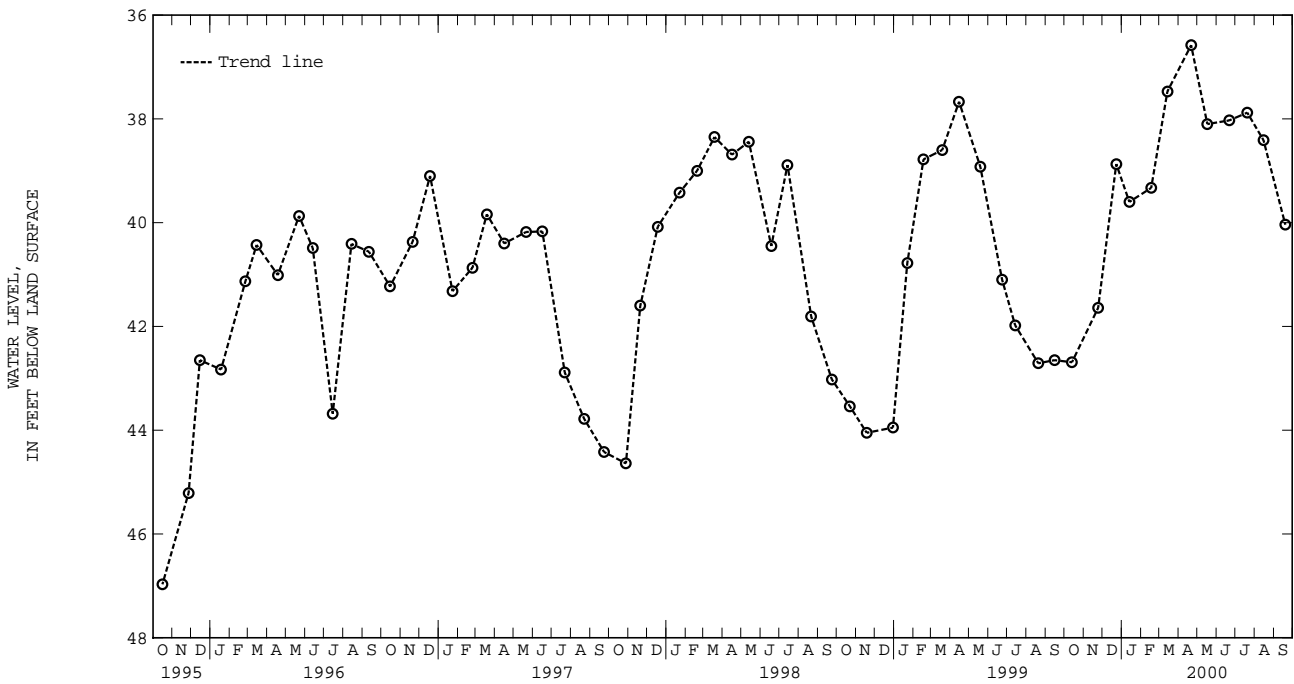
PERIOD OF RECORD.--April 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.89 ft below land surface, May 11, 1981;

lowest measured, 54.18 ft below land surface, May 14, 1985.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1999	42.69	JAN 13, 2000	39.60	APR 21, 2000	36.58	JUL 20, 2000	37.88
NOV 24	41.64	FEB 17	39.33	MAY 17	38.10	AUG 15	38.41
DEC 23	38.87	MAR 14	37.47	JUN 21	38.03	SEP 19	40.04
WATER YEAR 2000 HIGHEST 36.58		APR 21, 2000		LOWEST 42.69		OCT 13, 1999	



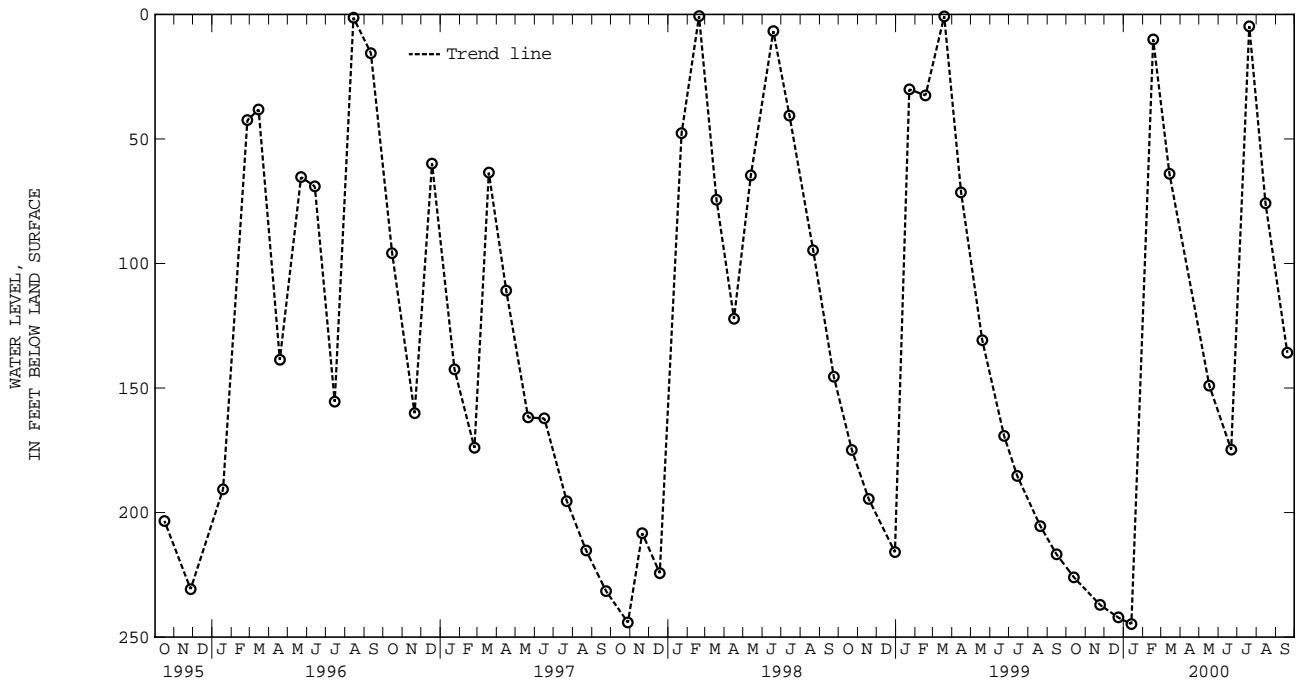
5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GARRETT COUNTY--Continued

WELL NUMBER.--GA Fb 27. SITE ID.--391513079243602. PERMIT NUMBER.--GA-73-2182.
 LOCATION.--Lat 39°15'13", long 79°24'36", Hydrologic Unit 02070002, 0.6 mi west of Wilson.
 Owner: U.S. Geological Survey.
 AQUIFER.--Conemaugh Formation of Upper Pennsylvanian age. Aquifer code: 321°CNMG.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 656 ft; casing diameter 4 in., to 590 ft; open hole.
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from June 11, 1980, to July 26, 1990.
 DATUM.--Elevation of land surface is 2,755 ft above sea level, from topographic map.
 Measuring point: Top of casing, 3.00 ft above land surface.
 REMARKS.--Hydrologic Effects of Mining, Phase III Project observation well. Water levels are affected by coal mining operations.
 PERIOD OF RECORD.--June 1980 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.27 ft below land surface, Feb. 9, 1994;
 lowest measured, 274.12 ft below land surface, Dec. 1, 1993.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1999	226.04	JAN 13, 2000	244.77	MAY 17, 2000	149.07	AUG 15, 2000	75.80
NOV 24	237.11	FEB 17	10.06	JUN 21	174.72	SEP 19	135.88
DEC 23	242.13	MAR 14	63.95	JUL 20	4.77		
WATER YEAR 2000 HIGHEST		4.77 JUL 20, 2000		LOWEST		244.77 JAN 13, 2000	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

GARRETT COUNTY--Continued

WELL NUMBER.--GA Fb 30. SITE ID.--391513079243605. PERMIT NUMBER.--GA-73-2185.

LOCATION.--Lat 39°15'13", long 79°24'36", Hydrologic Unit 02070002, 0.6 mi west of Wilson.

Owner: U.S. Geological Survey.

AQUIFER.--Conemaugh Formation of Upper Pennsylvanian age. Aquifer code: 321CNMG.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 85 ft; casing diameter 4 in., to 82 ft; open hole.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital

water-level recorder--60-minute recorder interval from June 4, 1980 to Oct. 19, 1980.

DATUM.--Elevation of land surface is 2,755 ft above sea level, from topographic map.

Measuring point: Top of casing, 2.00 ft above land surface.

REMARKS.--Hydrologic Effects of Mining, Phase III Project observation well. Water levels are affected by coal mining operations.

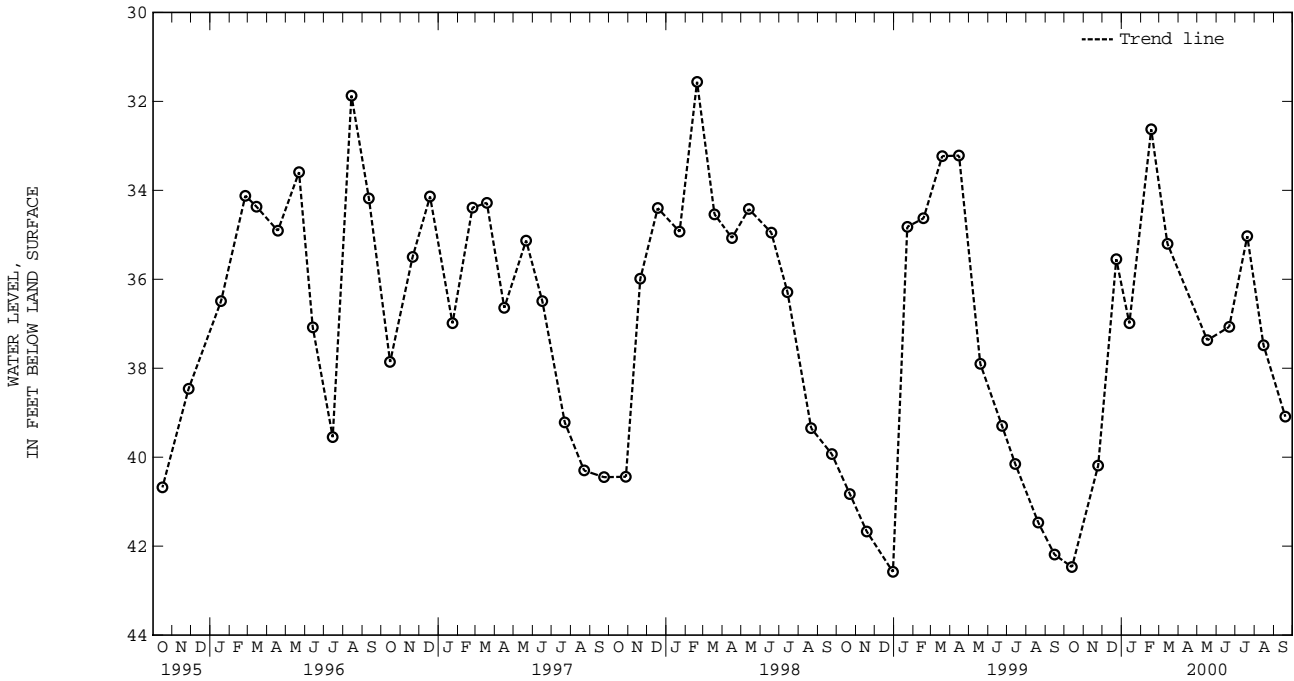
PERIOD OF RECORD.--June 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.58 ft below land surface, April 16, 1981;

lowest measured, 45.00 ft below land surface, Nov. 6, 1991.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1999	42.47	JAN 13, 2000	36.99	MAY 17, 2000	37.37	AUG 15, 2000	37.48
NOV 24	40.19	FEB 17	32.63	JUN 21	37.07	SEP 19	39.09
DEC 23	35.55	MAR 14	35.20	JUL 20	35.03		
WATER YEAR 2000 HIGHEST 32.63		FEB 17, 2000		LOWEST 42.47		OCT 13, 1999	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GARRETT COUNTY--Continued

WELL NUMBER.--GA Fb 31. SITE ID.--391602079240301. PERMIT NUMBER.--GA-81-1332.

LOCATION.--Lat 39°16'02", long 79°24'03", Hydrologic Unit 02070002, east side of Wilson-Coronna Rd., 500 ft northeast of intersection with Fairview Rd., 1.0 mile north of Wilson.

Owner: Mettiki Coal Corp.

AQUIFER.--Allegheny Formation of Middle Pennsylvanian age. Aquifer code: 324ALGN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 795 ft; casing diameter 6 in., to 760 ft; open hole.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval.

DATUM.--Elevation of land surface is 2,676.51 ft above sea level, from topographic map.

Measuring point: Top of casing, 2.20 ft above land surface.

REMARKS.--Hydrologic Effects of Mining, Phase III Project observation well. Water levels are affected by coal mining operations.

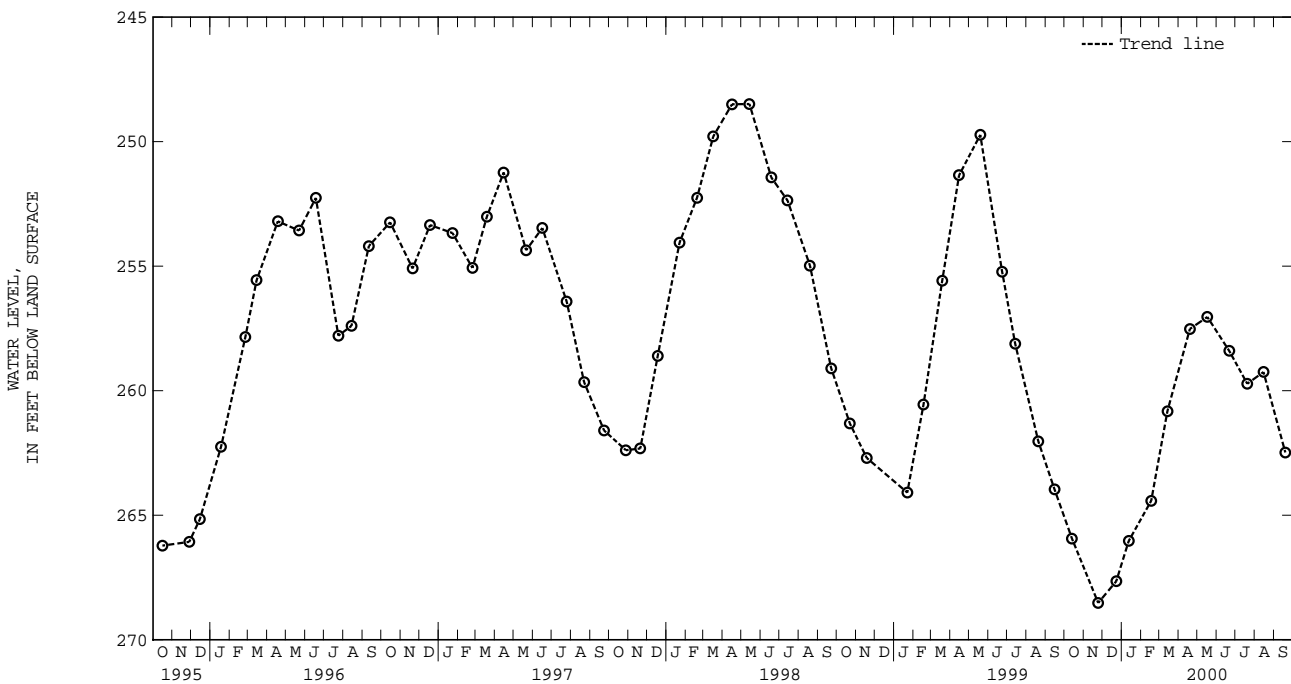
PERIOD OF RECORD.--March 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 215.43 ft below land surface, Feb. 7, 1991; lowest measured, 269.50 ft below land surface, Oct. 7, 1993.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1999	265.94	JAN 12, 2000	266.03	APR 19, 2000	257.52	JUL 20, 2000	259.72
NOV 24	268.52	FEB 17	264.42	MAY 17	257.04	AUG 15	259.25
DEC 23	267.65	MAR 14	260.82	JUN 21	258.40	SEP 19	262.48

WATER YEAR 2000 HIGHEST 257.04 MAY 17, 2000 LOWEST 268.52 NOV 24, 1999



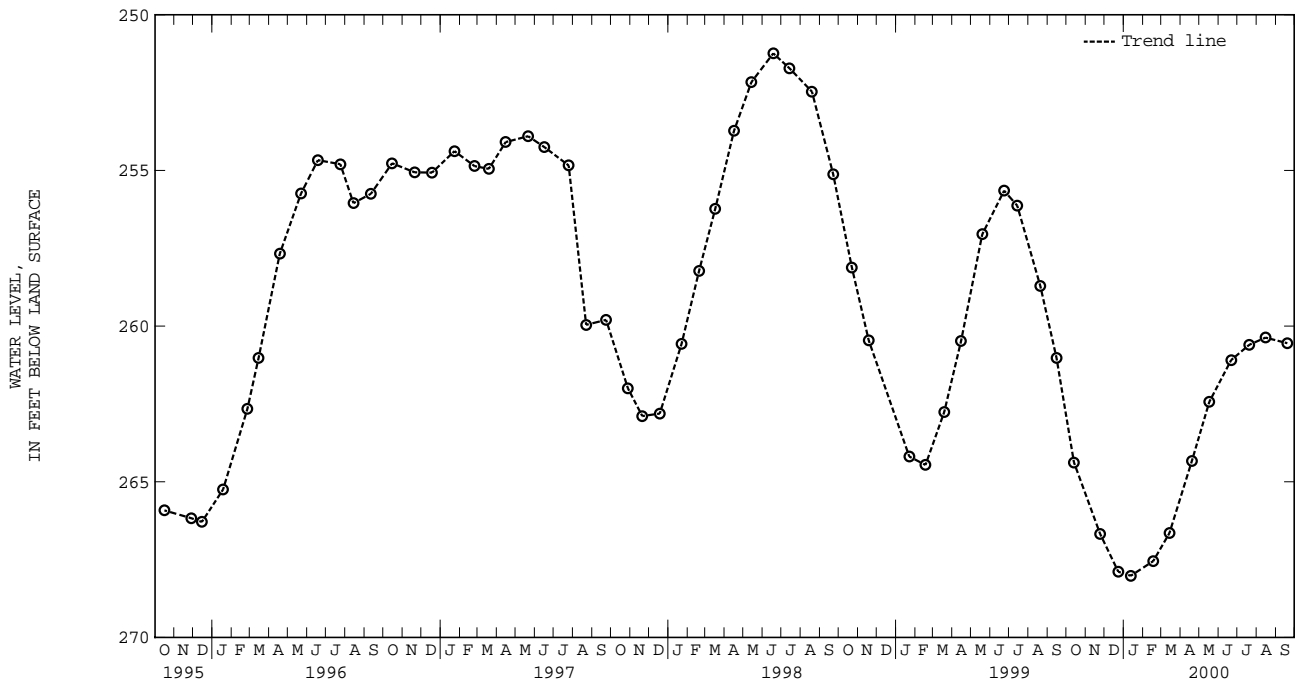
5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GARRETT COUNTY--Continued

WELL NUMBER.--GA Fb 32. SITE ID.--391602079240302. PERMIT NUMBER.--GA-81-1333.
 LOCATION.--Lat 39°16'02", long 79°24'03", Hydrologic Unit 02070002, east side of Wilson-Coronna Road, 500 ft northeast of intersection with Fairview Road, 1.0 mile north of Wilson.
 Owner: Mettiki Coal Corp.
 AQUIFER.-- Conemaugh Formation of Upper Pennsylvanian age. Aquifer code: 321CNMG.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 736 ft; casing diameter 6 in., to 736 ft; perforated casing from 720 to 736 ft.
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by USGS personnel. E quipped with digital water-level recorder--60-minute recorder interval.
 DATUM.--Elevation of land surface is 2,677.21 ft above sea level.
 Measuring Point: Top of casing, 2.20 ft above land surface.
 REMARKS.--Hydrologic Effects of Mining, Phase III Project observation well. Water levels are affected by coal mining operations.
 PERIOD OF RECORD.--March 1988 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 206.71 ft below land surface, March 25, 1988; lowest measured, 268.94 ft below land surface, Nov. 4, 1993.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1999	264.38	JAN 12, 2000	268.02	APR 19, 2000	264.33	JUL 20, 2000	260.60
NOV 24	266.68	FEB 17	267.55	MAY 17	262.43	AUG 15	260.37
DEC 23	267.89	MAR 14	266.65	JUN 21	261.09	SEP 19	260.55
WATER YEAR 2000 HIGHEST 260.37		AUG 15, 2000		LOWEST 268.02		JAN 12, 2000	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GARRETT COUNTY--Continued

WELL NUMBER.--GA Fb 34. SITE ID.--391602079240304. PERMIT NUMBER.--GA-81-1331.

LOCATION.--Lat 39°16'02", long 79°24'03", Hydrologic Unit 02070002, east side of Wilson-Coronna Road, 500 ft northeast of intersection with Fairview Road, 1.0 mile north of Wilson.

Owner: Mettiki Coal Corp.

AQUIFER.-- Conemaugh Formation of Upper Pennsylvanian age. Aquifer code: 321CNMG.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 390 ft; casing diameter 6 in., to 370 ft; open hole.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval.

DATUM.--Elevation of land surface is 2,677 ft above sea level, from topographic map.

Measuring point: Top of casing, 3.20 ft above land surface.

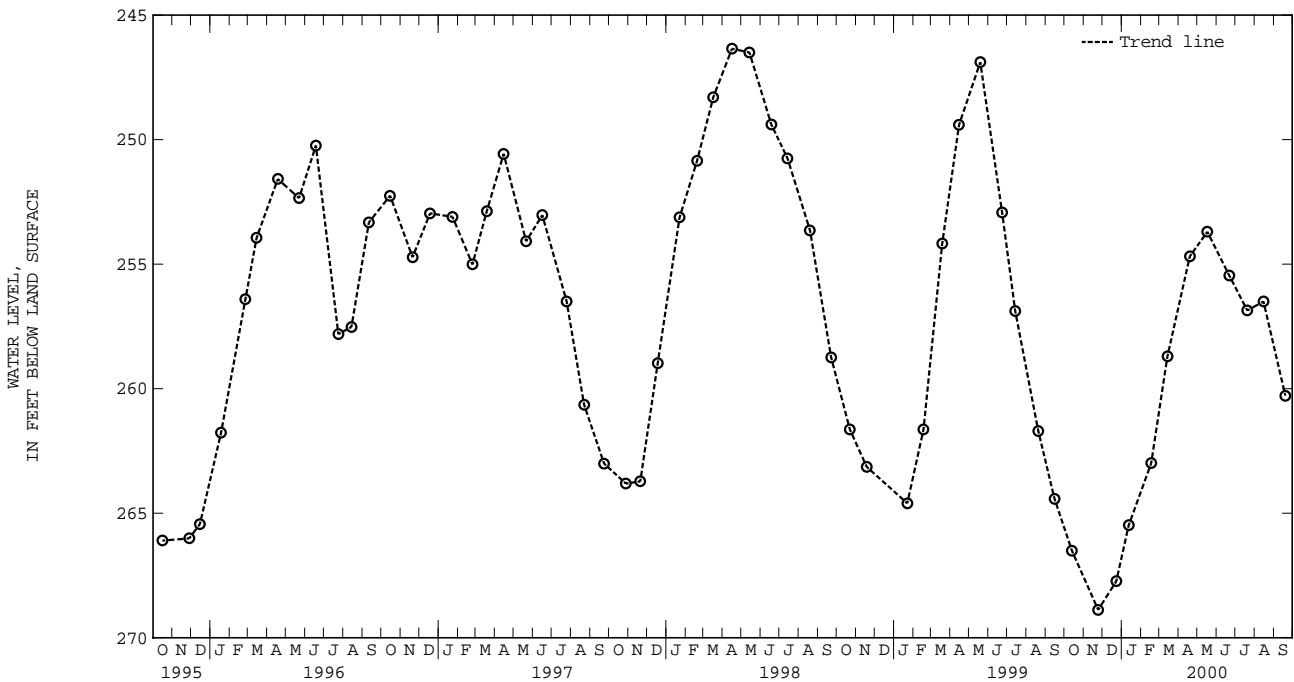
REMARKS.--Hydrologic Effects of Mining, Phase III Project observation well. Water levels are affected by coal mining operations.

PERIOD OF RECORD.--March 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 202.64 ft below land surface, March 25, 1989; lowest measured, 270.20 ft below land surface, Oct. 7, 1993.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1999	266.51	JAN 12, 2000	265.48	APR 19, 2000	254.68	JUL 20, 2000	256.86
NOV 24	268.88	FEB 17	262.99	MAY 17	253.70	AUG 15	256.50
DEC 23	267.73	MAR 14	258.70	JUN 21	255.45	SEP 19	260.28
WATER YEAR 2000 HIGHEST 253.70		MAY 17, 2000		LOWEST 268.88		NOV 24, 1999	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

GARRETT COUNTY--Continued

WELL NUMBER.--GA Ga 16. SITE ID.--391420079264901. PERMIT NUMBER.--GA-81-0953.

LOCATION.--Lat 39°14'20", long 79°26'49", Hydrologic Unit 02070002, east of Kempton Road, 100 ft north of Laurel Run, 2.8 mi southwest of Wilson.

Owner: Mettiki Coal Corp.

AQUIFER.--Conemaugh Formation of Upper Pennsylvanian age. Aquifer code: 321CNMG.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 147 ft; casing diameter 6 in., to 110 ft, open hole.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval.

DATUM.--Elevation of land surface is 2,690 ft above sea level, from topographic map.

Measuring point: Top of shelter floor, 3.20 ft above land surface.

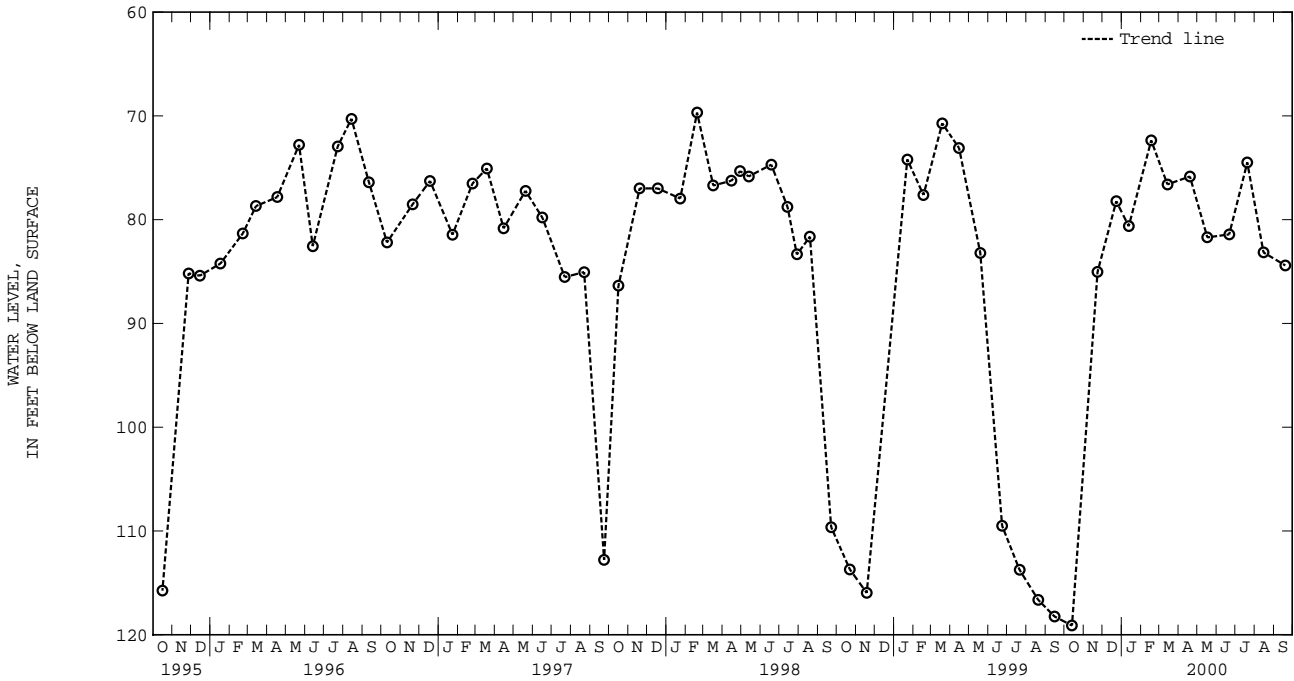
REMARKS.--Hydrologic Effects of Mining, Phase III Project observation well. Water levels are affected by coal mining operations.

PERIOD OF RECORD.--November 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 69.69 ft below land surface, Feb. 19, 1998;
lowest measured, 145.05 ft below land surface, Sept. 22, 1988.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1999	119.11	JAN 12, 2000	80.63	APR 19, 2000	75.84	JUL 20, 2000	74.49
NOV 23	85.02	FEB 17	72.37	MAY 17	81.71	AUG 15	83.16
DEC 23	78.23	MAR 14	76.60	JUN 21	81.42	SEP 19	84.41
WATER YEAR 2000 HIGHEST 72.37		FEB 17, 2000		LOWEST 119.11		OCT 13, 1999	



HARFORD COUNTY

WELL NUMBER.--HA Bd 31. SITE ID.--393902076160001.

LOCATION.--Lat 39°39'02", long 76°16'00", Hydrologic Unit 02050306, at Dublin.

Owner: Walter Lee Moody, Sr.

AQUIFER.--Baltimore Gabbro Complex of Paleozoic age. Aquifer code: 300BLMR.

WELL CHARACTERISTICS.--Dug, stone-lined, water-table well, measured depth 25.9 ft; approximate diameter 36 in.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with

water-level recorder from July 9, 1954 to Aug. 5, 1958.

DATUM.--Elevation of land surface is 460 ft above sea level, from topographic map.

Measuring point: Top of wood floor, 0.10 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

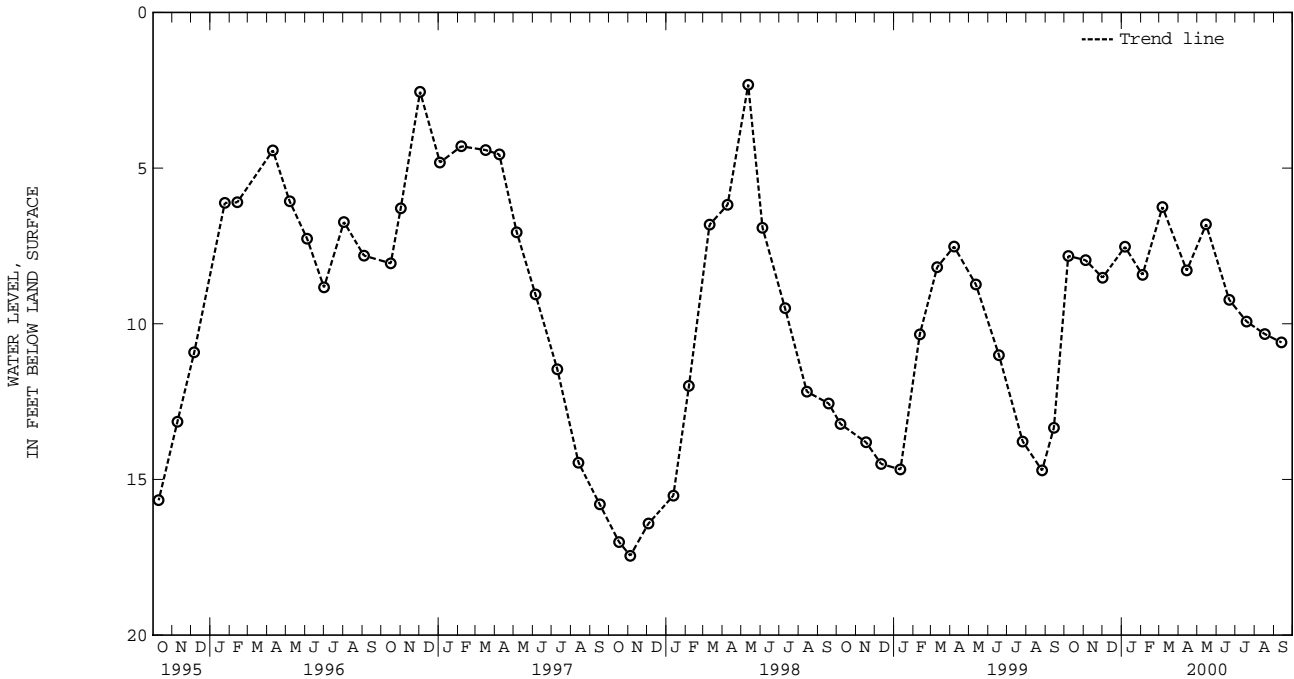
PERIOD OF RECORD.--May 1954 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.00 ft below land surface, March 8, 1979;

lowest measured, 19.59 ft below land surface, Feb. 7, 1966.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 07, 1999	7.82	JAN 06, 2000	7.53	APR 14, 2000	8.29	JUL 19, 2000	9.93
NOV 04	7.96	FEB 03	8.43	MAY 15	6.81	AUG 17	10.33
DEC 01	8.52	MAR 06	6.25	JUN 21	9.23	SEP 13	10.60
WATER YEAR 2000 HIGHEST		6.25 MAR 06, 2000	LOWEST		10.60	SEP 13, 2000	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

HARFORD COUNTY--Continued

WELL NUMBER.--HA Ca 23. SITE ID.--393158076302601. PERMIT NUMBER.--HA-73-1630.
 LOCATION.--Lat 39°31'58", long 76°30'26", Hydrologic Unit 02060003, at Gunpowder State Park, Hess.
 Owner: U.S. Geological Survey.

AQUIFER.--Loch Raven Formation of Cambrian age. Aquifer code: 370LCRV.
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 200 ft; casing diameter 6 in., to 24 ft; open hole.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic
 water-level recorder from July 10, 1974 to Sept. 13, 1976.

DATUM.--Elevation of land surface is 470 ft above sea level, from topographic map.
 Measuring point: Top of casing, 1.60 ft above land surface.

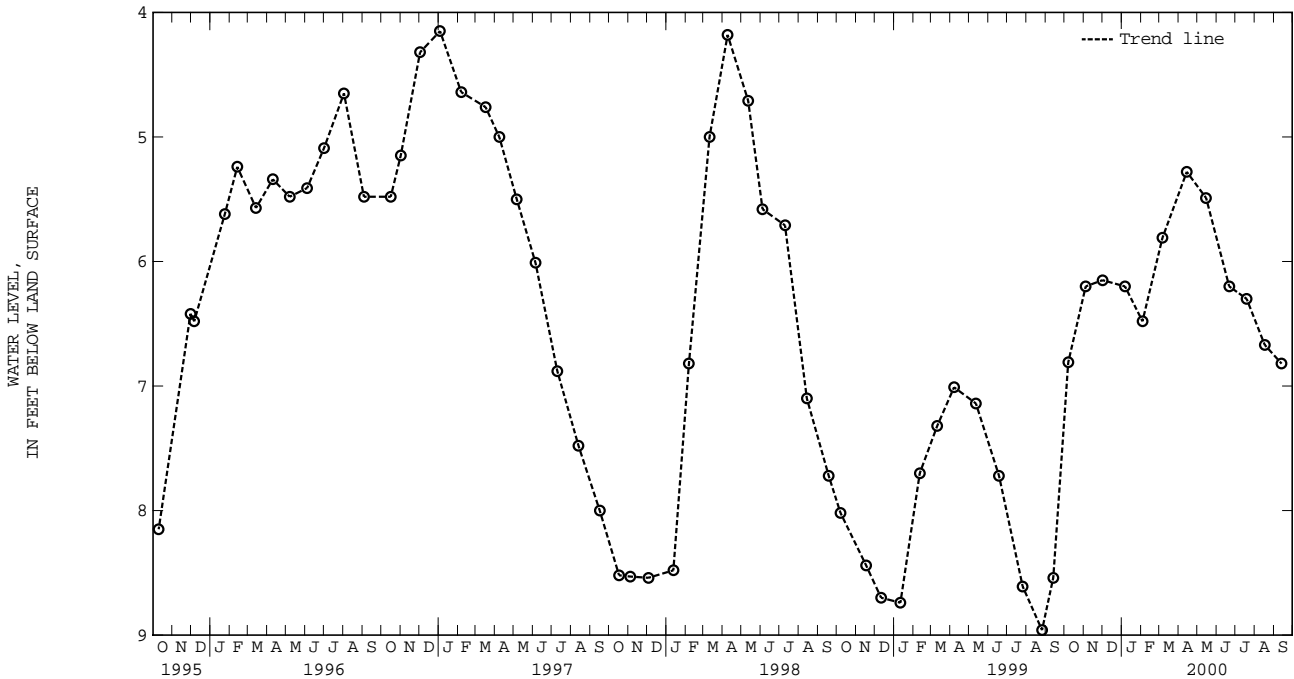
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--July 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.59 ft below land surface, Sept. 27, 1975;
 lowest measured, 9.03 ft below land surface, Dec. 15, 1981.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 07, 1999	6.81	JAN 06, 2000	6.20	APR 14, 2000	5.28	JUL 19, 2000	6.30
NOV 04	6.20	FEB 03	6.48	MAY 15	5.49	AUG 17	6.67
DEC 01	6.15	MAR 06	5.81	JUN 21	6.20	SEP 13	6.82
WATER YEAR 2000 HIGHEST		5.28	APR 14, 2000		LOWEST		6.82
				SEP 13, 2000			



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

HARFORD COUNTY--Continued

WELL NUMBER.--HA Dd 89. SITE ID.--392529076180901. PERMIT NUMBER.--HA-81-4130.

LOCATION.--Lat 39°25'29", long 76°18'09", Hydrologic Unit 02060003, at Edgewood Elementary School on Cedar Drive, Edgewood.

Owner: Maryland Geological Survey.

AQUIFER.--Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 150 ft; casing diameter 4 in., to 96 ft, 106 to 120 ft, and 130 to 150 ft; screen diameter 4 in. from 96 to 106 ft, and 120 to 130 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological personnel. Twice yearly measurements with chalked steel tape from October 1990 to January 1996 by U.S. Geological Survey personnel. Equipped with digital water-level recorder--15-minute recorder interval from Jan. 1, 1988 to July 11, 1989.

DATUM.--Elevation of land surface is 99.05 ft above sea level.

Measuring point: Top of recorder platform, 1.80 ft above land surface.

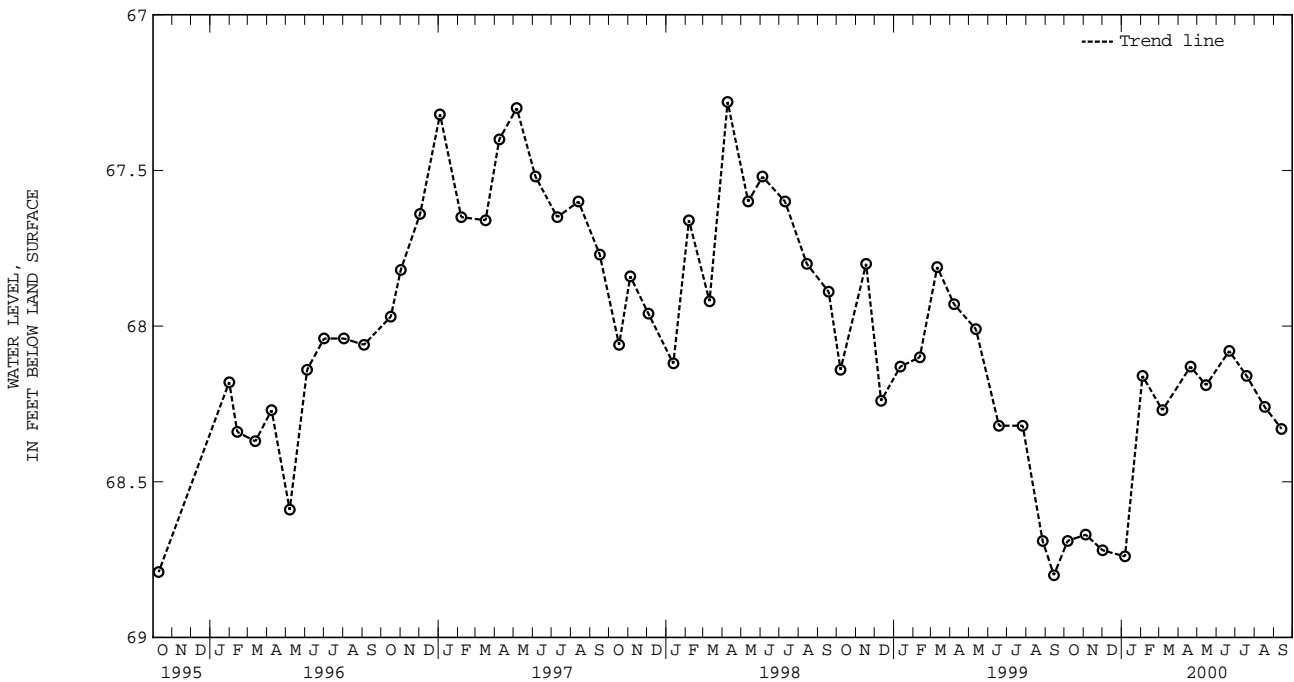
REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--January 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 67.28 ft below land surface, April 9, 1998;
lowest measured, 69.58 ft below land surface, Feb. 3, 1988.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 1999	68.69	JAN 06, 2000	68.74	APR 20, 2000	68.13	JUL 19, 2000	68.16
NOV 04	68.67	FEB 03	68.16	MAY 15	68.19	AUG 17	68.26
DEC 01	68.72	MAR 06	68.27	JUN 21	68.08	SEP 13	68.33
WATER YEAR 2000 HIGHEST 68.08 JUN 21, 2000		LOWEST 68.74 JAN 06, 2000					



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

HARFORD COUNTY--Continued

WELL NUMBER.--HA Dd 91. SITE ID.--392721076150301. PERMIT NUMBER.--HA-81-4136.

LOCATION.--Lat 39°27'21", long 76°15'03", Hydrologic Unit 02060003, at William Longley Park, near intersection of Long Bar Harbor and Longley Roads, Long Bar Harbor.

Owner: Maryland Geological Survey.

AQUIFER.--Talbot Formation of Pleistocene age. Aquifer code: 112TLBT.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 78 ft; casing diameter 4 in., to 58 ft, and 68 to 78 ft; screen diameter 4 in. from 58 to 68 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 19.73 ft above sea level.
Measuring Point: Top of casing, 1.90 ft above land surface.

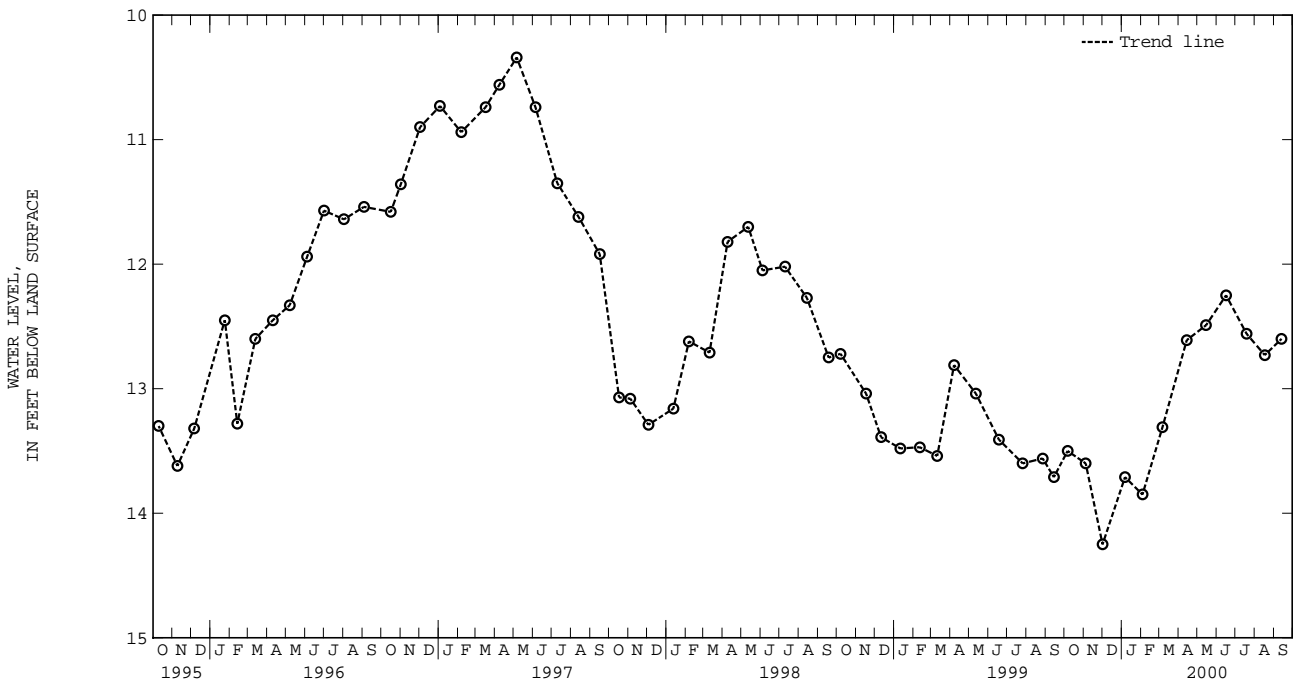
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--May 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.34 ft below land surface, May 6, 1997;
lowest measured, 13.71 ft below land surface, Feb. 2, 1993, and Sept. 14, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 1999	13.50	JAN 06, 2000	13.71	APR 14, 2000	12.61	JUL 19, 2000	12.56
NOV 04	13.60	FEB 03	13.85	MAY 15	12.49	AUG 17	12.73
DEC 01	14.25	MAR 06	13.31	JUN 16	12.25	SEP 13	12.60
WATER YEAR 2000 HIGHEST 12.25		JUN 16, 2000		LOWEST 14.25		DEC 01, 1999	



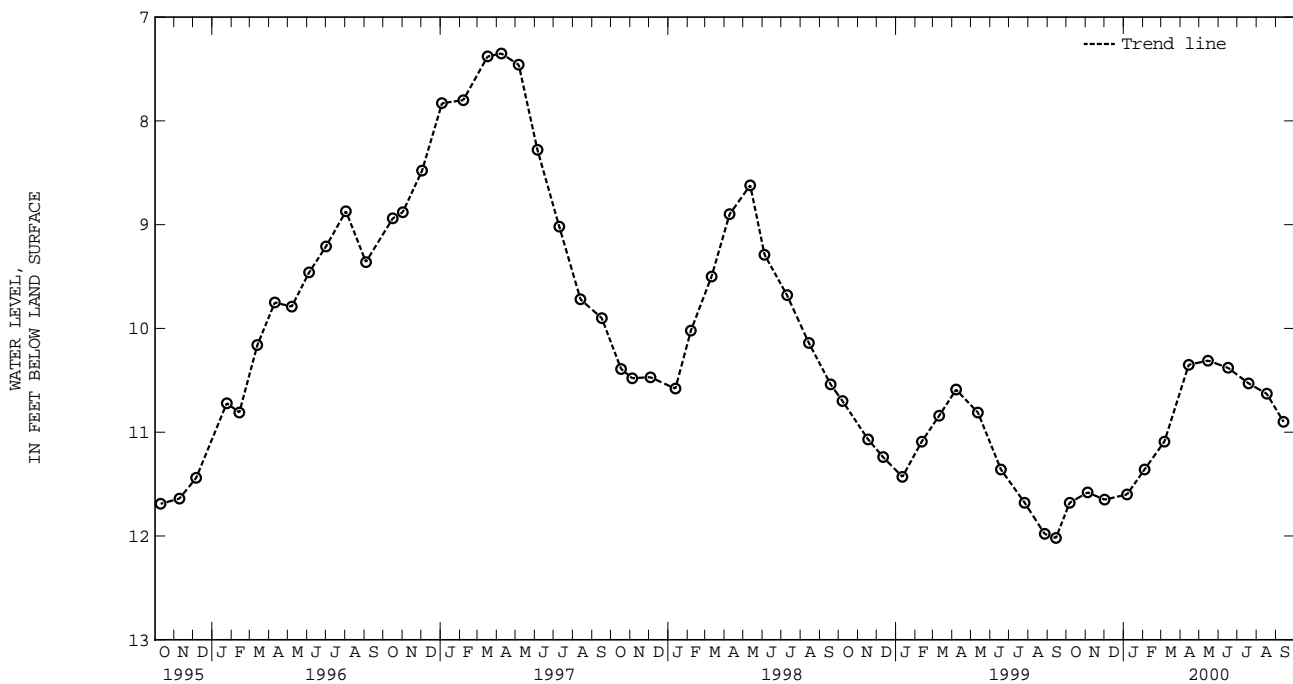
5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

HARFORD COUNTY--Continued

WELL NUMBER.--HA Dd 92. SITE ID.--392721076150302. PERMIT NUMBER.--HA-81-4137.
 LOCATION.--Lat 39°27'21", long 76°15'03", Hydrologic Unit 02060003, at William Longley Park, near intersection of Long Bar Harbor and Longley Roads, Long Bar Harbor.
 Owner: Maryland Geological Survey.
 AQUIFER.--Talbot Formation of Pleistocene age. Aquifer code: 112TLBT.
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 28 ft; casing diameter 4 in., to 18 ft; screen diameter 4 in. from 18 to 28 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 20.06 ft above sea level.
 Measuring point: Top of casing, 2.12 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well.
 PERIOD OF RECORD.--May 1988 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.35 ft below land surface, April 8, 1997.
 lowest measured, 12.31 ft below land surface, Jan. 17, 1989.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 1999	11.68	JAN 06, 2000	11.60	APR 14, 2000	10.35	JUL 19, 2000	10.53
NOV 04	11.58	FEB 03	11.36	MAY 15	10.31	AUG 17	10.63
DEC 01	11.65	MAR 06	11.09	JUN 16	10.38	SEP 13	10.90
WATER YEAR 2000 HIGHEST 10.31		MAY 15, 2000		LOWEST 11.68		OCT 06, 1999	



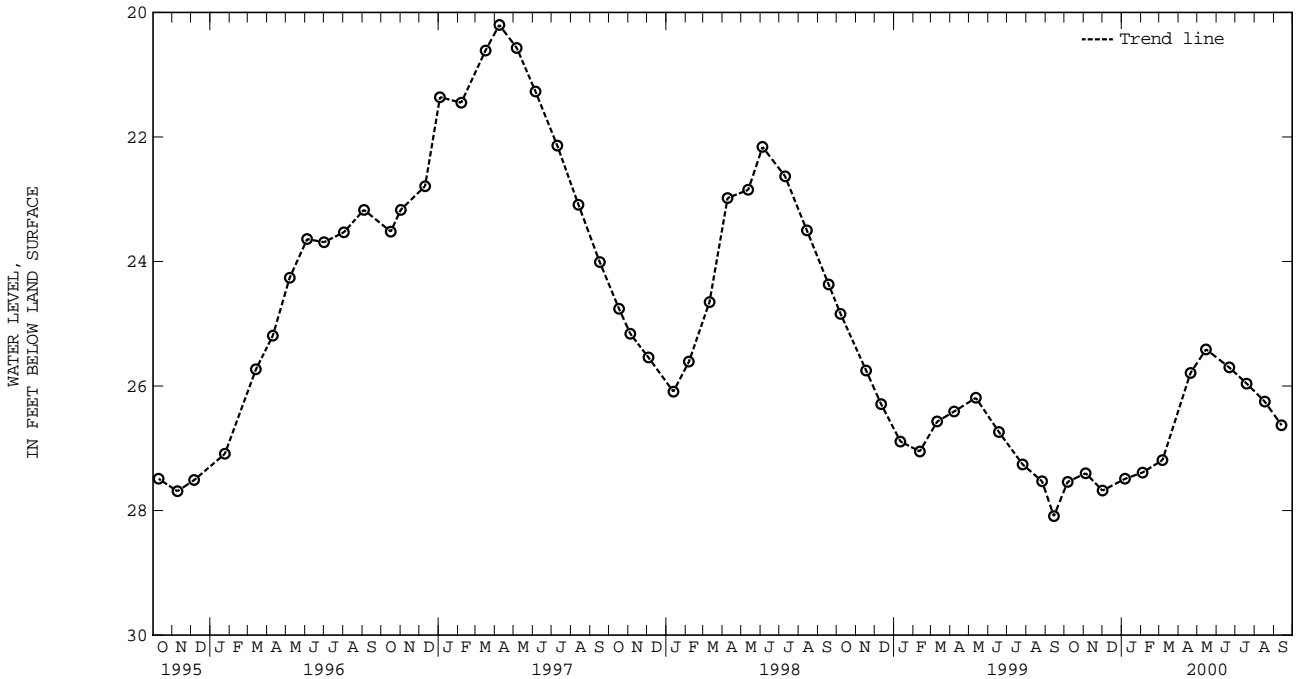
GROUND-WATER LEVELS IN MARYLAND--Continued

HARFORD COUNTY--Continued

WELL NUMBER.--HA De 66. SITE ID.--392921076100401. PERMIT NUMBER.--HA-69-0394.
 LOCATION.--Lat 39°29'21", long 76°10'04", Hydrologic Unit 02060003, at Short Lane, near Aberdeen.
 Owner: Harford County Metropolitan Commission.
 AQUIFER.--Talbot Formation of Pleistocene age. Aquifer code: 112TLBT.
 WELL CHARACTERISTICS.--Drilled, unused, artesian well, depth 66 ft; casing diameter 4 in., to 45 ft; screen diameter 4 in. from 45 to 66 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from Dec. 12, 1986 to July 11, 1989.
 DATUM.--Elevation of land surface is 68.79 ft above sea level.
 Measuring point: Top of casing, 1.61 ft above land surface.
 PERIOD OF RECORD.--October 1973 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.31 ft below land surface, July 28, 1975; lowest measured, 29.04 ft below land surface, Jan. 21, 1988.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 1999	27.54	JAN 06, 2000	27.49	APR 20, 2000	25.79	JUL 19, 2000	25.96
NOV 04	27.40	FEB 03	27.39	MAY 15	25.41	AUG 17	26.25
DEC 01	27.68	MAR 06	27.19	JUN 21	25.70	SEP 13	26.63
WATER YEAR 2000 HIGHEST		25.41	MAY 15, 2000		LOWEST		27.68
						DEC 01, 1999	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

HARFORD COUNTY--Continued

WELL NUMBER.--HA De 181. SITE ID.--392606076145801. PERMIT NUMBER.--HA-81-4134.
 LOCATION.--Lat 39°26'06", long 76°14'58", Hydrologic Unit 02060003, northeast end of Kennard Ave., at Willoughby Beach, Crestwood.

Owner: U.S. Geological Survey.

AQUIFER.--Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 290 ft; casing diameter 4 in., to 264 ft, 269 to 275 ft, and 280 to 290 ft; screen diameter 4 in. from 264 to 269 ft, and 275 to 280 ft.

INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--15-minute recorder interval from May 24, 1988 to July 11, 1989.

DATUM.--Elevation of land surface is 12.22 ft above sea level.

Measuring point: Top of casing, 2.10 ft above land surface.

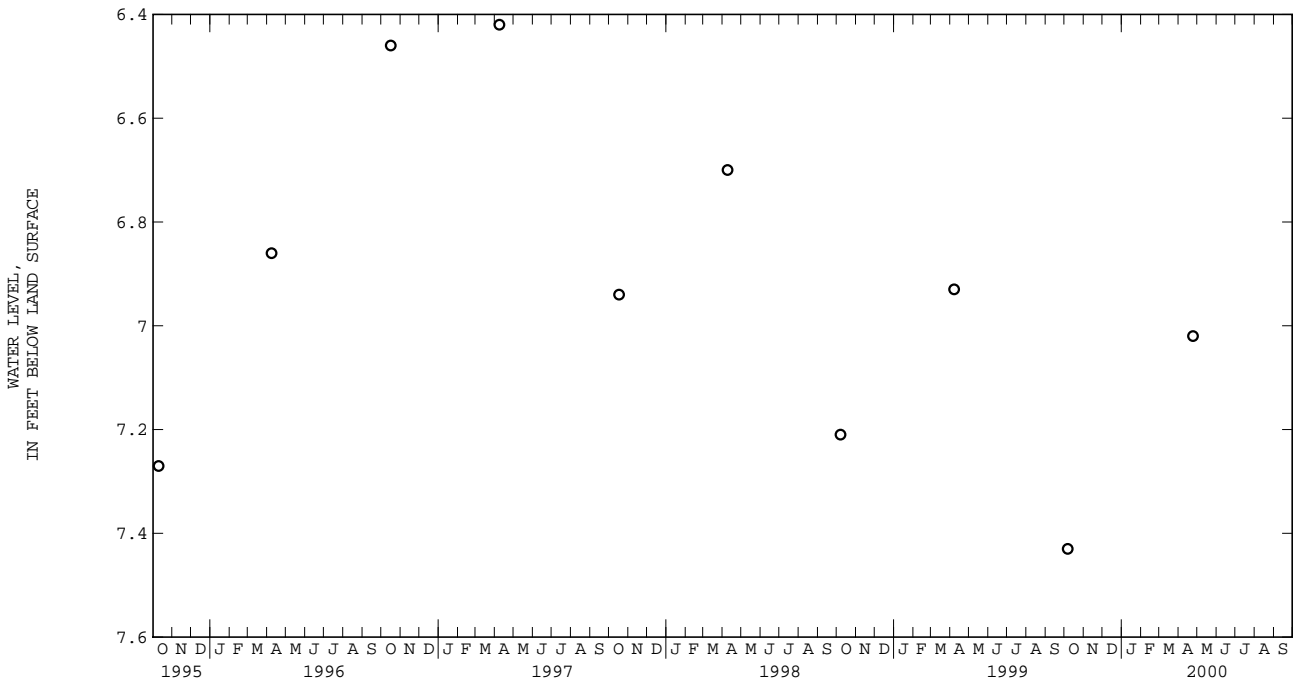
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--May 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.42 ft below land surface, April 8, 1997;
 lowest measured, 7.93 ft below land surface, Dec. 22, 1988.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 1999	7.43	APR 24, 2000	7.02
WATER YEAR 2000 HIGHEST		7.02 APR 24, 2000	LOWEST
		7.43	OCT 06, 1999



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

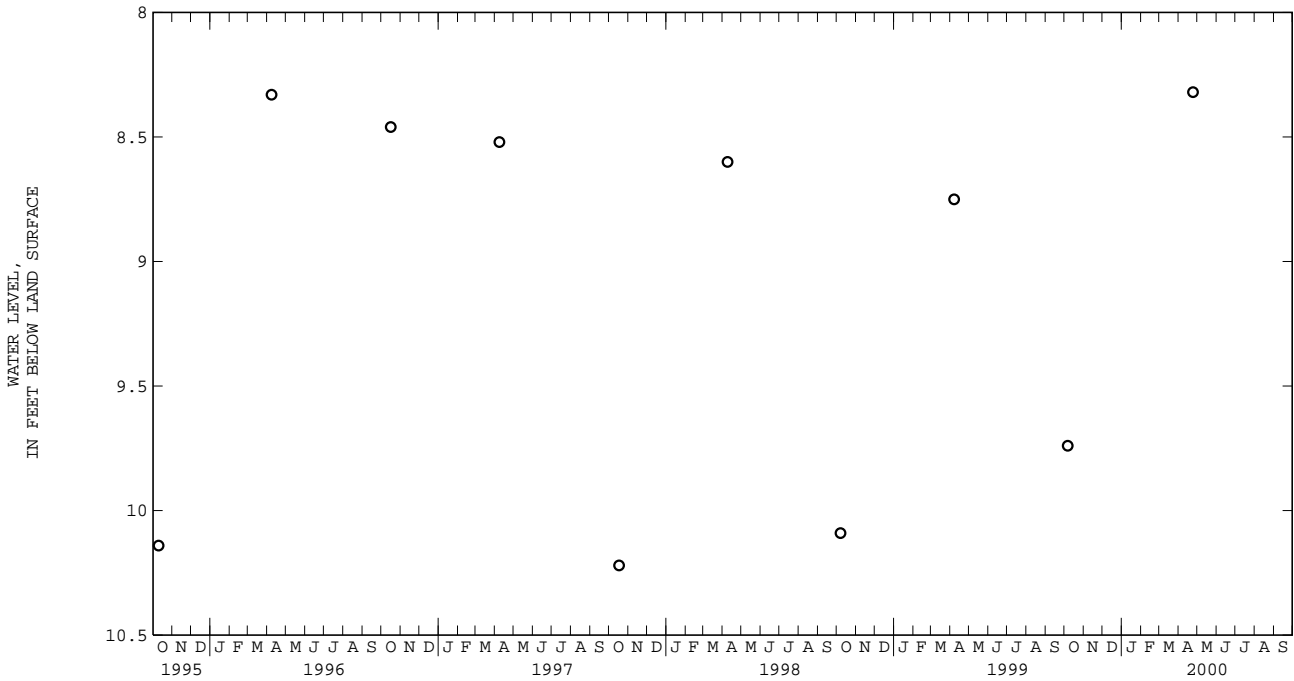
GROUND-WATER LEVELS IN MARYLAND--Continued

HARFORD COUNTY--Continued

WELL NUMBER.--HA De 182. SITE ID.--392606076145802. PERMIT NUMBER.--HA-81-4135.
 LOCATION.--Lat 39°26'06", long 76°14'58", Hydrologic Unit 02060003, northeast end of Kennard Ave., at Willoughby Beach, Crestwood.
 Owner: U.S. Geological Survey.
 AQUIFER.--Talbot Formation of Pleistocene age. Aquifer code: 112TLBT.
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 50 ft; casing diameter 4 in., to 30 ft, and 40 to 50 ft; screen diameter 4 in. from 30 to 40 ft.
 INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--15-minute recorder interval from July 21, 1988 to July 11, 1989.
 DATUM.--Elevation of land surface is 12.29 ft above sea level.
 Measuring point: Top of casing, 2.52 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well.
 PERIOD OF RECORD.--May 1988 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.12 ft below land surface, June 7, 1989;
 lowest measured, 11.04 ft below land surface, Oct. 5, 1993.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 1999	9.74	APR 24, 2000	8.32
WATER YEAR 2000 HIGHEST		8.32 APR 24, 2000	LOWEST
		9.74	OCT 06, 1999



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

HARFORD COUNTY--Continued

WELL NUMBER.--HA De 183. SITE ID.--392606076145803. PERMIT NUMBER.--HA-81-4577.

LOCATION.--Lat 39°26'06", long 76°14'58", Hydrologic Unit 02060003, northeast end of Kennard Ave., at Willoughby Beach, Crestwood.

Owner: U.S. Geological Survey.

AQUIFER.--Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 175 ft; casing diameter 4 in., to 155 ft, and 165 to 175 ft; screen diameter 4 in. from 155 to 165 ft.

INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--15-minute recorder interval from May 24, 1988 to July 11, 1989.

DATUM.--Elevation of land surface is 12.53 ft above sea level.

Measuring point: Top of casing, 2.54 ft above land surface.

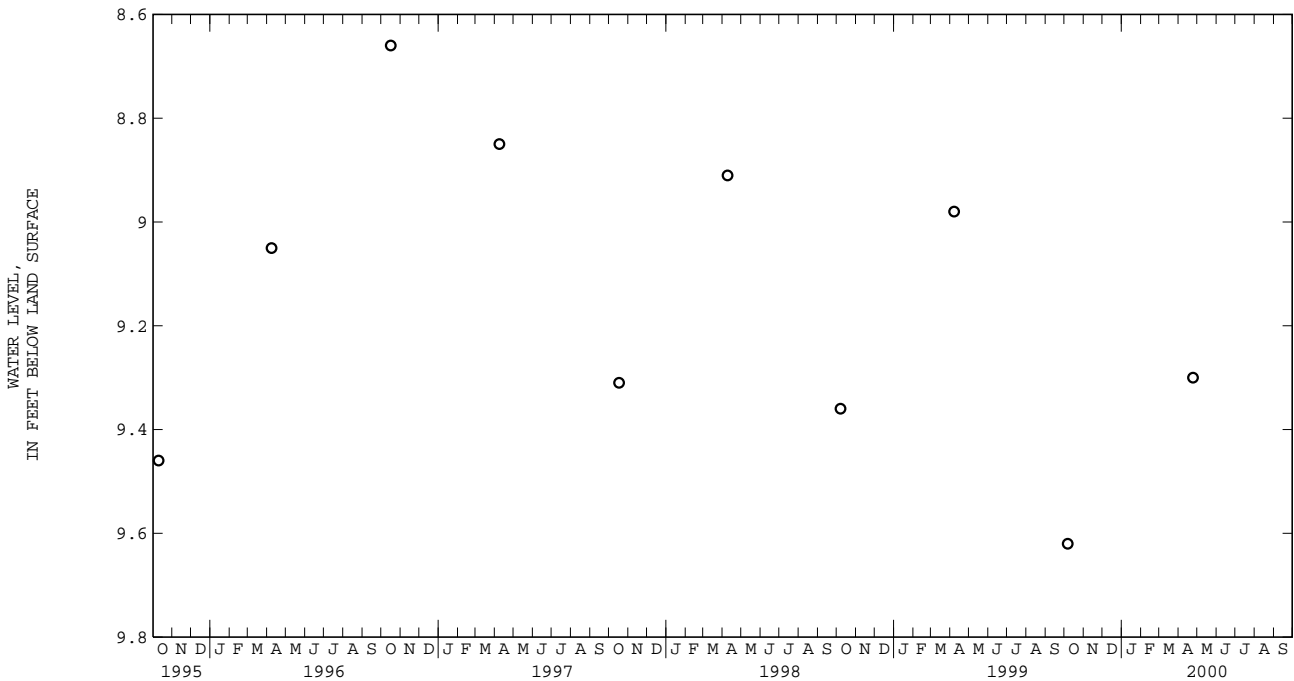
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--May 1988 to July 1989, April 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.66 ft below land surface, Oct. 16, 1996; lowest measured, 10.43 ft below land surface, Nov. 3, 1988.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 1999	9.62	APR 24, 2000	9.30
WATER YEAR 2000 HIGHEST		9.30	APR 24, 2000 LOWEST
		9.62	OCT 06, 1999



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

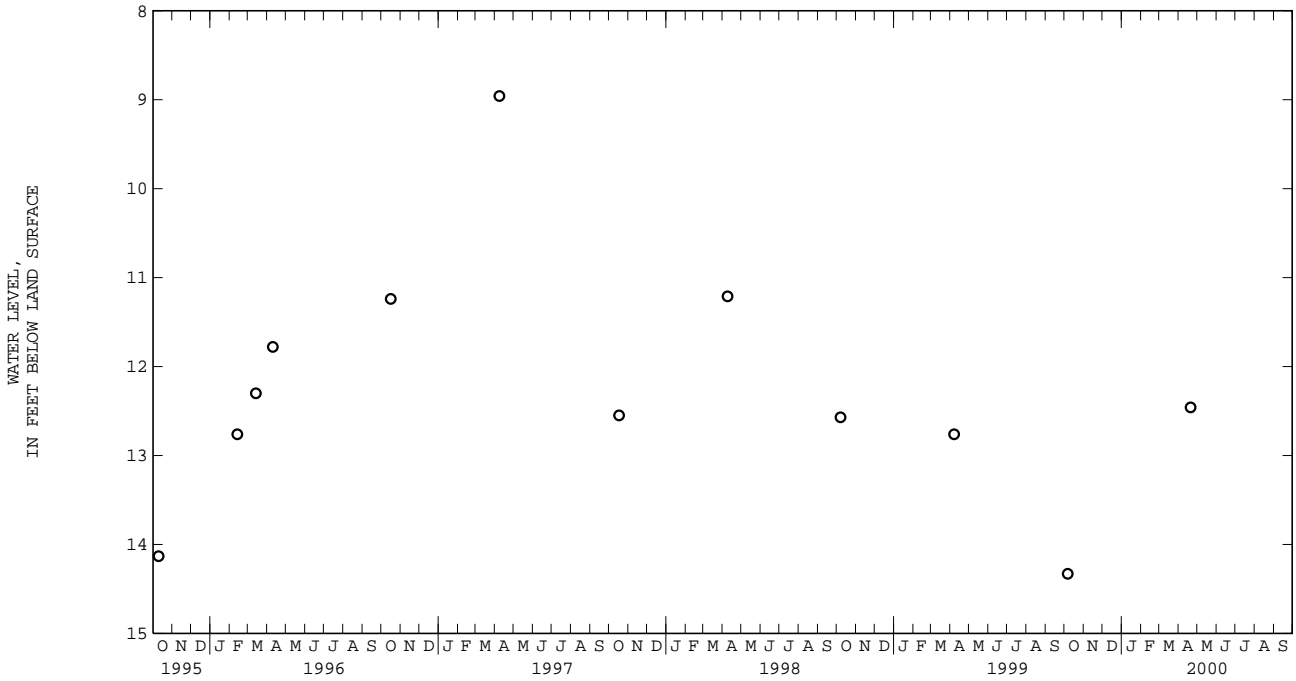
GROUND-WATER LEVELS IN MARYLAND--Continued

HARFORD COUNTY--Continued

WELL NUMBER.--HA De 195. SITE ID.--392914076110301. PERMIT NUMBER.--HA-81-4142.
 LOCATION.--Lat 39°29'14", long 76°11'03", Hydrologic Unit 02060003, 0.2 mi east on Cranberry Run Dr., near Perryman.
 Owner: U.S. Geological Survey.
 AQUIFER.--Talbot Formation of Pleistocene age. Aquifer code: 112TBLT.
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 55 ft; casing diameter 4 in., to 35 ft; and 45 to 55 ft; screen diameter 4 in. from 35 to 45 ft.
 INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel. Measured monthly from May 1988 to July 1989.
 DATUM.--Elevation of land surface is 52.70 ft above sea level.
 Measuring point: Top of plastic casing, 1.38 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well.
 PERIOD OF RECORD.--May 1988 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.96 ft below land surface, April 8, 1997;
 lowest measured, 14.13 ft below land surface, Oct. 10, 1995.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 1999	14.33	APR 20, 2000	12.46
WATER YEAR 2000 HIGHEST 12.46 APR 20, 2000		LOWEST 14.33 OCT 06, 1999	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

HARFORD COUNTY--Continued

WELL NUMBER.--HA De 198. SITE ID.--392819076130902. PERMIT NUMBER.--HA-81-4141.
 LOCATION.--Lat 39°28'19", long 76°13'09", Hydrologic Unit 02060003, northwest end of Fords Lane, Perryman.
 Owner: Kelly and George Hallgren. (formerly Maryland Geological Survey).
 AQUIFER.--Talbot Formation of Pleistocene age. Aquifer code: 112TLBT.
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 19 ft; casing diameter 4 in., to 9 ft; screen diameter 4 in. from 9 to 19 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--30-minute recorder interval from Jan. 3, 1991 to current year. Measured monthly from July 1988 to July 1989.
 DATUM.--Altitude of land surface is 18.92 ft above sea level.
 Measuring Point: Top of casing, 1.50 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Missing data due to recorder malfunction.
 PERIOD OF RECORD.--May 1988 to August 1989, July 1991 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.57 ft above sea level, Sept. 16, 1999; lowest measured, 8.82 ft above sea level, Nov. 2, and 3, 1992.

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.59	10.49	10.76	10.73	11.16	11.14	11.43	11.39	11.42	11.36	13.00	12.90
2	10.49	10.39	11.02	10.75	11.14	11.10	11.49	11.42	11.36	11.31	12.91	12.65
3	10.39	10.32	11.04	10.97	11.11	11.08	11.46	11.41	11.44	11.32	12.68	12.60
4	11.72	10.31	10.97	10.94	11.08	11.02	12.95	11.46	11.40	11.32	12.61	12.54
5	11.90	10.89	10.96	10.92	11.06	11.02	12.68	11.93	11.32	11.26	12.54	12.35
6	10.89	10.69	10.96	10.92	11.13	11.05	12.00	11.93	11.28	11.20	12.35	12.28
7	10.69	10.60	10.92	10.87	11.13	11.11	12.01	11.85	11.32	11.22	12.43	12.27
8	10.60	10.58	10.87	10.86	11.12	11.10	11.88	11.82	11.27	11.17	12.42	12.34
9	10.58	10.53	10.88	10.86	11.14	11.11	11.89	11.86	11.39	11.27	12.41	12.29
10	12.19	10.53	10.88	10.85	11.44	11.14	12.19	11.86	11.38	11.34	12.29	12.13
11	11.35	10.97	10.85	10.74	11.38	11.35	12.15	11.93	11.66	11.38	12.33	12.13
12	10.97	10.91	10.80	10.74	11.35	11.30	11.96	11.86	11.84	11.66	12.35	12.07
13	10.93	10.89	10.81	10.79	11.75	11.28	12.10	11.75	11.93	11.83	12.16	12.06
14	10.93	10.73	10.85	10.77	12.70	11.75	11.75	11.70	12.88	11.93	12.24	12.15
15	10.73	10.71	10.78	10.76	11.98	11.86	11.86	11.73	12.61	12.15	12.23	12.15
16	10.71	10.70	10.77	10.71	11.89	11.71	11.98	11.74	12.69	12.28	13.06	12.17
17	10.74	10.71	10.71	10.65	11.72	11.67	11.74	11.66	12.37	12.22	13.58	12.68
18	10.74	10.60	10.65	10.63	11.68	11.59	11.83	11.71	13.11	12.30	12.68	12.61
19	10.62	10.59	10.64	10.62	11.60	11.58	11.79	11.73	13.57	12.98	12.68	12.61
20	10.87	10.62	10.67	10.64	11.80	11.58	11.83	11.67	13.23	12.86	12.62	12.53
21	10.94	10.87	10.64	10.60	11.82	11.78	11.67	11.55	12.86	12.70	14.74	12.53
22	11.02	10.94	10.60	10.59	11.80	11.74	11.55	11.49	12.71	12.66	14.58	13.71
23	11.08	10.99	10.59	10.58	11.81	11.72	11.56	11.52	12.71	12.65	13.71	13.52
24	10.99	10.89	10.58	10.58	11.72	11.64	11.59	11.51	12.71	12.66	13.52	13.31
25	10.89	10.86	10.58	10.56	11.69	11.61	11.75	11.57	12.67	12.56	13.33	13.26
26	10.89	10.86	13.15	10.57	11.80	11.66	11.57	11.43	12.65	12.55	13.26	13.04
27	10.86	10.78	13.36	11.43	11.66	11.58	11.43	11.33	13.04	12.65	13.28	13.02
28	10.78	10.77	11.43	11.27	11.65	11.58	11.34	11.31	13.83	13.00	13.72	13.28
29	10.78	10.77	11.27	11.19	11.62	11.49	11.33	11.30	13.00	12.90	13.28	13.04
30	10.77	10.74	11.19	11.14	11.55	11.47	11.49	11.32	---	---	13.08	12.96
31	10.77	10.75	---	---	11.48	11.40	11.49	11.38	---	---	12.96	12.87
MONTH	12.19	10.31	13.36	10.56	12.70	11.02	12.95	11.30	13.83	11.17	14.74	12.06

GROUND-WATER LEVELS IN MARYLAND--Continued

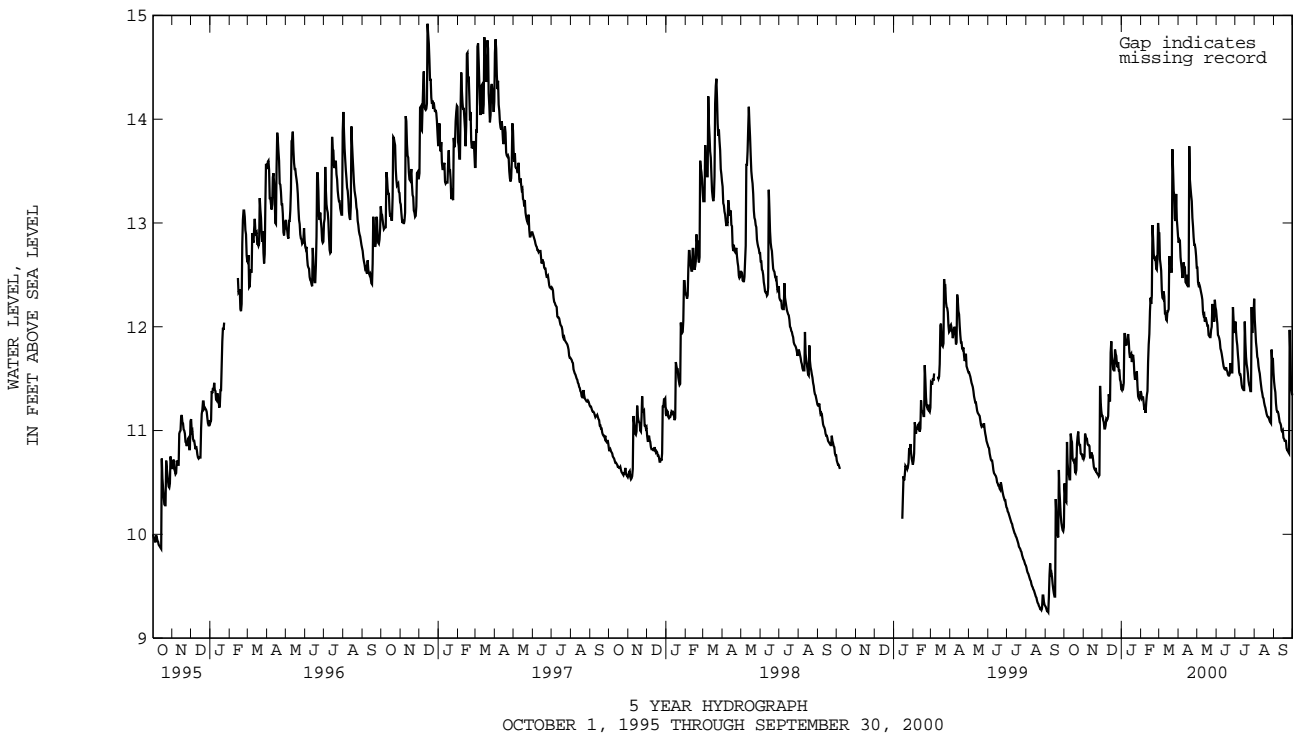
HARFORD COUNTY--Continued

HA De 198--Continued

WATER LEVELS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.89	12.81	12.72	12.57	12.17	12.09	12.11	12.05	12.27	12.07	11.56	11.47
2	12.89	12.84	12.67	12.43	12.09	12.03	12.06	11.95	12.07	11.96	11.47	11.41
3	12.90	12.83	12.45	12.40	12.03	11.92	11.95	11.87	11.96	11.85	11.41	11.37
4	12.95	12.67	12.46	12.41	11.92	11.91	11.87	11.82	11.85	11.79	11.37	11.26
5	12.67	12.61	12.44	12.39	11.91	11.89	11.82	11.73	11.79	11.71	11.26	11.20
6	12.79	12.56	12.39	12.36	11.91	11.86	11.73	11.66	11.71	11.69	11.20	11.18
7	12.64	12.47	12.36	12.33	11.86	11.79	11.66	11.56	11.70	11.62	11.19	11.18
8	12.70	12.53	12.33	12.30	11.80	11.77	11.56	11.54	11.62	11.58	11.19	11.16
9	12.72	12.62	12.30	12.26	11.78	11.74	11.56	11.54	11.58	11.55	11.16	11.12
10	12.65	12.57	12.27	12.14	11.74	11.70	11.56	11.50	11.55	11.49	11.12	11.08
11	12.70	12.57	12.14	12.11	11.71	11.66	11.50	11.44	11.49	11.44	11.08	11.07
12	12.69	12.43	12.17	12.12	11.66	11.62	11.44	11.41	11.44	11.39	11.07	11.05
13	12.53	12.42	12.14	12.05	11.62	11.60	11.41	11.40	11.39	11.36	11.05	11.00
14	12.53	12.48	12.21	12.09	11.60	11.59	11.40	11.39	11.36	11.32	11.02	10.99
15	12.54	12.50	12.14	12.07	11.61	11.59	12.25	11.39	11.32	11.31	11.03	11.00
16	12.54	12.39	12.08	12.04	11.71	11.61	12.25	12.05	11.32	11.27	11.00	10.93
17	14.23	12.39	12.05	12.01	11.68	11.58	12.05	11.85	11.27	11.24	10.93	10.92
18	14.13	13.74	12.05	12.01	11.58	11.57	11.85	11.71	11.24	11.22	10.92	10.90
19	13.74	13.42	12.02	11.92	11.57	11.54	11.71	11.64	11.22	11.19	10.94	10.90
20	13.42	13.34	11.92	11.91	11.54	11.53	11.64	11.60	11.19	11.16	10.90	10.90
21	13.37	13.27	11.91	11.90	11.57	11.53	11.60	11.55	11.16	11.14	10.92	10.83
22	13.34	13.21	11.97	11.90	11.89	11.55	11.55	11.48	11.14	11.13	10.83	10.81
23	13.21	13.05	12.00	11.97	11.82	11.65	11.48	11.44	11.13	11.13	10.83	10.81
24	13.05	12.97	13.78	12.00	11.65	11.60	11.44	11.42	11.13	11.11	10.84	10.79
25	12.97	12.86	12.45	12.22	11.60	11.56	11.42	11.38	11.11	11.09	12.68	10.78
26	12.86	12.79	12.22	12.11	12.50	11.56	12.70	11.38	11.09	11.08	12.68	11.97
27	12.83	12.79	12.12	12.09	12.50	12.19	12.55	12.19	13.16	11.07	11.97	11.72
28	12.82	12.75	12.41	12.05	12.19	12.07	12.19	11.94	12.72	11.78	11.72	11.48
29	12.75	12.68	12.53	12.26	12.07	11.95	12.40	12.19	11.79	11.66	11.48	11.39
30	12.68	12.57	12.26	12.19	12.19	11.95	12.54	12.09	11.82	11.70	11.39	11.34
31	---	---	12.19	12.16	---	---	12.56	12.27	11.70	11.56	---	---
MONTH	14.23	12.39	13.78	11.90	12.50	11.53	12.70	11.38	13.16	11.07	12.68	10.78
YEAR	14.74	10.31										

Daily Low Water Levels

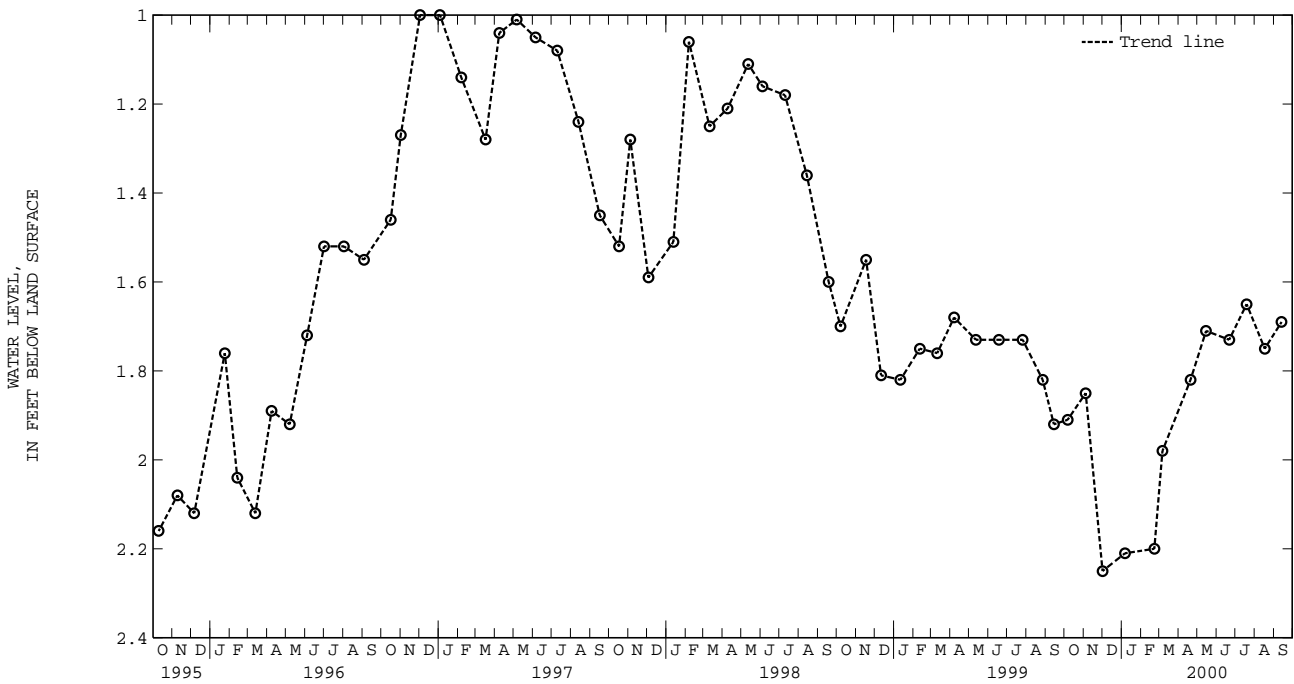


HARFORD COUNTY--Continued

WELL NUMBER.--HA Ec 11. SITE ID.--392435076203301. PERMIT NUMBER.--HA-04-7211.
 LOCATION.--Lat 39°24'35", long 76°20'33", Hydrologic Unit 02060003, off Trimble Road, Joppatowne.
 Owner: Joppatowne Utilities Corp.
 AQUIFER.--Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 68 ft; diameter of casing 6 in., to 63 ft; screen diameter 2 in. from 63 to 68 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with water-level recorder from May 23, 1962 to Dec. 17, 1983.
 DATUM.--Elevation of land surface is 11.7 ft above sea level.
 Measuring point: Top of casing, 3.50 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.
 PERIOD OF RECORD.--May 1962 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.13 ft below land surface, May 24, 1962; lowest measured, 12.80 ft below land surface, May 26, 1972.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 1999	1.91	JAN 06, 2000	2.21	APR 20, 2000	1.82	JUL 19, 2000	1.65
NOV 04	1.85	FEB 22	2.20	MAY 15	1.71	AUG 17	1.75
DEC 01	2.25	MAR 06	1.98	JUN 21	1.73	SEP 13	1.69
WATER YEAR 2000 HIGHEST		1.65	JUL 19, 2000		LOWEST		2.25
						DEC 01, 1999	



GROUND-WATER LEVELS IN MARYLAND--Continued

HARFORD COUNTY--Continued

WELL NUMBER.--HA Ec 46. SITE ID.--392408076210101. PERMIT NUMBER.--HA-81-4124.

LOCATION.--Lat 39°24'08", long 76°21'01", Hydrologic Unit 02060003, at end of Kearney Dr. Coppenhaven Park, near Joppatowne.

Owner: U.S. Geological Survey.

AQUIFER.--Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 85 ft; diameter of casing 4 in., to 65 ft, and 75 to 85 ft; screen diameter 4 in. from 65 to 75 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Twice yearly measurements from October 1989 to October 1995.

DATUM.--Elevation of land surface is 23.16 ft above sea level.

Measuring point: Top of casing, 2.17 ft above land surface.

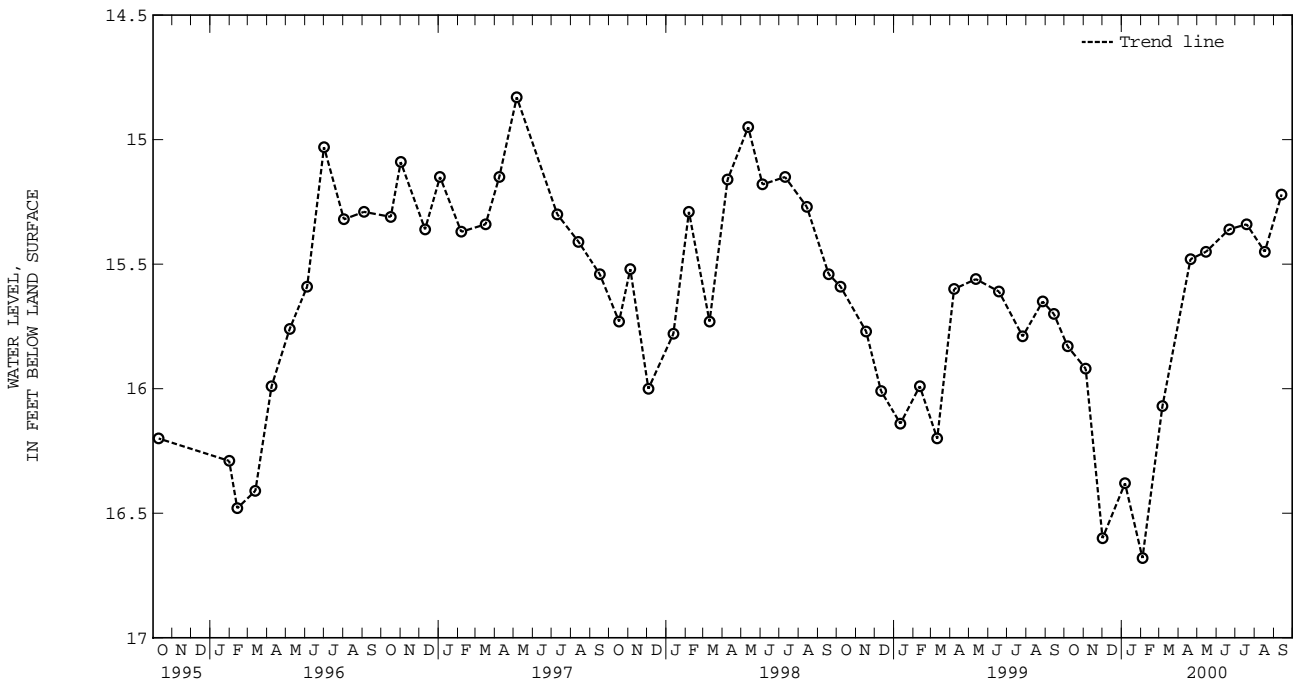
REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--May 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.83 ft below land surface, May 6, 1997; lowest measured, 16.76 ft below land surface, Feb. 23, 1989.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 1999	15.83	JAN 06, 2000	16.38	APR 20, 2000	15.48	JUL 19, 2000	15.34
NOV 04	15.92	FEB 03	16.68	MAY 15	15.45	AUG 17	15.45
DEC 01	16.60	MAR 06	16.07	JUN 21	15.36	SEP 13	15.22
WATER YEAR 2000 HIGHEST 15.22		SEP 13, 2000		LOWEST 16.68		FEB 03, 2000	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

HARFORD COUNTY--Continued

WELL NUMBER.--HA Ed 24. SITE ID.--392343076161901.

LOCATION.--Lat 39°23'43", long 76°16'19", Hydrologic Unit 02060003, at Bush River Road and 29th St., about 2 mi southeast of Edgewood.

Owner: U.S. Army (well 23M).

AQUIFER.--Canal Creek aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217CLCK.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 135 ft; casing diameter 18 in., to 73 ft; casing diameter 10 in. from 65 to 120 ft; screen diameter 10 in. from 120 to 135 ft.

INSTRUMENTATION.--Periodic measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder from Jan. 24, 1950, to June 6, 1961.

DATUM.--Elevation of land surface is 12.8 ft above sea level.

Measuring point: Top of casing, 1.44 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water level measured, 8.24 ft below land surface, April 13, 1944.

Water levels are affected by local ground-water withdrawal.

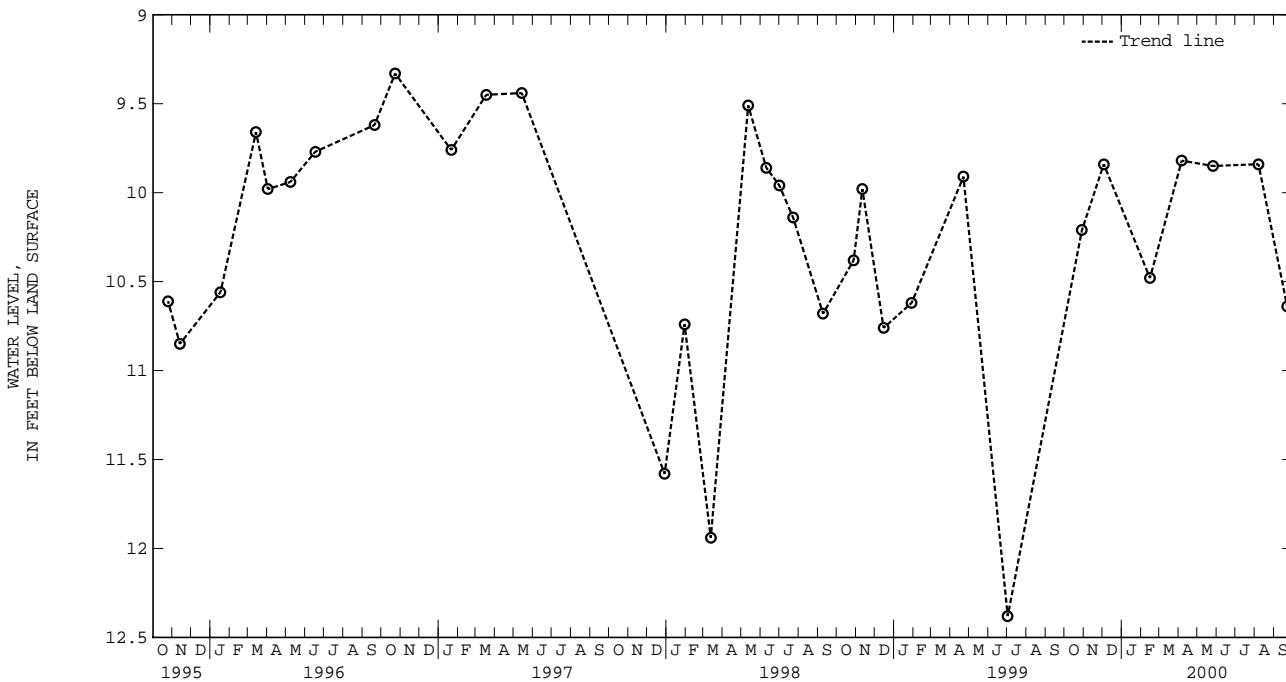
PERIOD OF RECORD.-- September 1949, January 1950 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.41 ft below land surface, Sept. 17, 1984;

lowest measured, 42.55 ft below land surface, June 26, 1955.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29, 1999	10.21	FEB 15, 2000	10.48	MAY 26, 2000	9.85	SEP 22, 2000	10.64
DEC 03	9.84	APR 06	9.82	AUG 07	9.84		
WATER YEAR 2000 HIGHEST 9.82 APR 06, 2000		LOWEST 10.64 SEP 22, 2000					



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

HARFORD COUNTY--Continued

WELL NUMBER.--HA Ed 47. SITE ID.--392455076192101. PERMIT NUMBER.--HA-81-4128.

LOCATION.--Lat 39°24'55", long 76°19'21", Hydrologic Unit 02060003, 0.2 mi east of intersection of MD Rt. 152 and Trimble Road, Edgewood Park.

Owner: U.S. Geological Survey.

AQUIFER.--Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 210 ft; casing diameter 4 in., to 190 ft, and 200 to 210 ft; screen diameter 4 in. from 190 to 200 ft.

INSTRUMENTATION.--Monthly measurement with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 90.50 ft above sea level.

Measuring point: Top of casing, 2.29 ft above land surface.

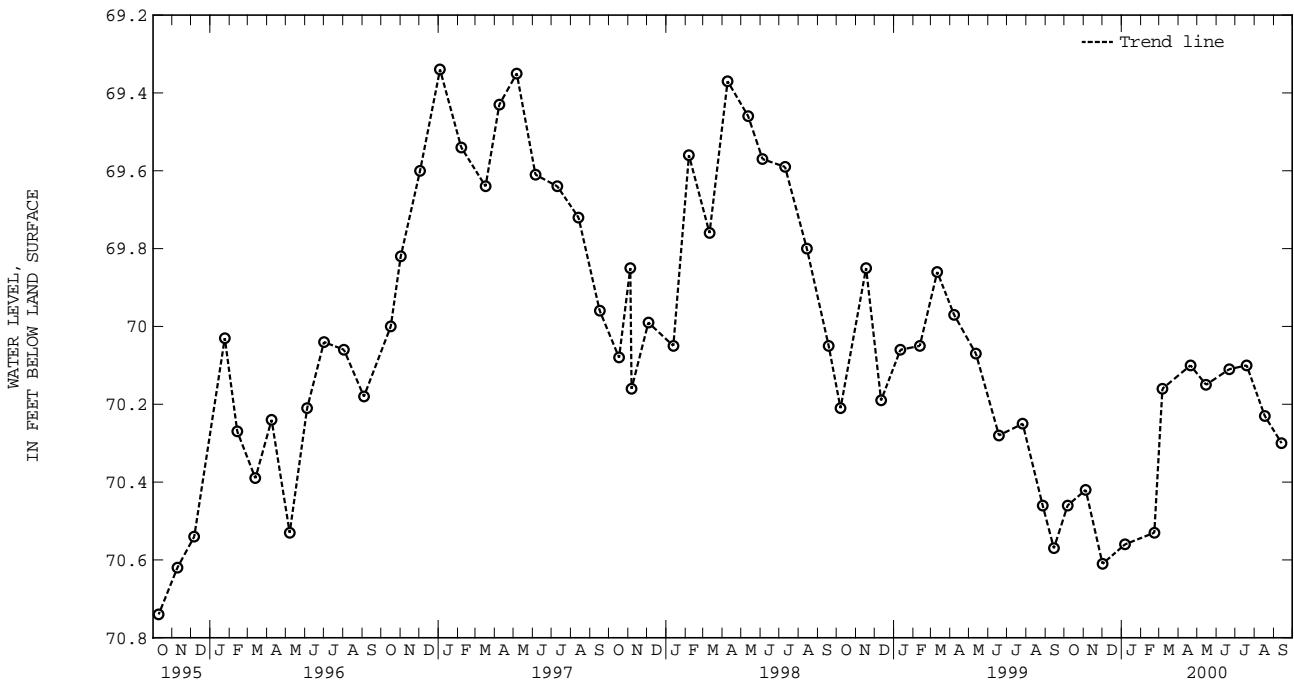
REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--May 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 69.34 ft below land surface, Jan. 3, 1997;
lowest measured, 72.02 ft below land surface, Nov. 9, 1988.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 1999	70.46	JAN 06, 2000	70.56	APR 20, 2000	70.10	JUL 19, 2000	70.10
NOV 04	70.42	FEB 22	70.53	MAY 15	70.15	AUG 17	70.23
DEC 01	70.61	MAR 06	70.16	JUN 21	70.11	SEP 13	70.30
WATER YEAR 2000		HIGHEST	70.10	APR 20, 2000	JUL 19, 2000	LOWEST	70.61
				DEC 01, 1999			



HARFORD COUNTY--Continued

WELL NUMBER.--HA Ed 48. SITE ID.--392455076192102. PERMIT NUMBER.--HA-81-4178.

LOCATION.--Lat 39°24'55", long 76°19'21", Hydrologic Unit 02060003, 0.2 mi east of intersection of MD Rt. 152 and Trimble Road, Edgewood Park.

Owner: U.S. Geological Survey.

AQUIFER.--Potomac Group of Lower Cretaceous age. Aquifer code: 217PTMC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 133 ft; casing diameter 4 in., to 118 ft, and 128 to 133 ft; screen diameter 4 in. from 118 to 128 ft.

INSTRUMENTATION.--Monthly measurement with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 91.20 ft above sea level.

Measuring point: Top of PVC casing, 2.58 ft above land surface.

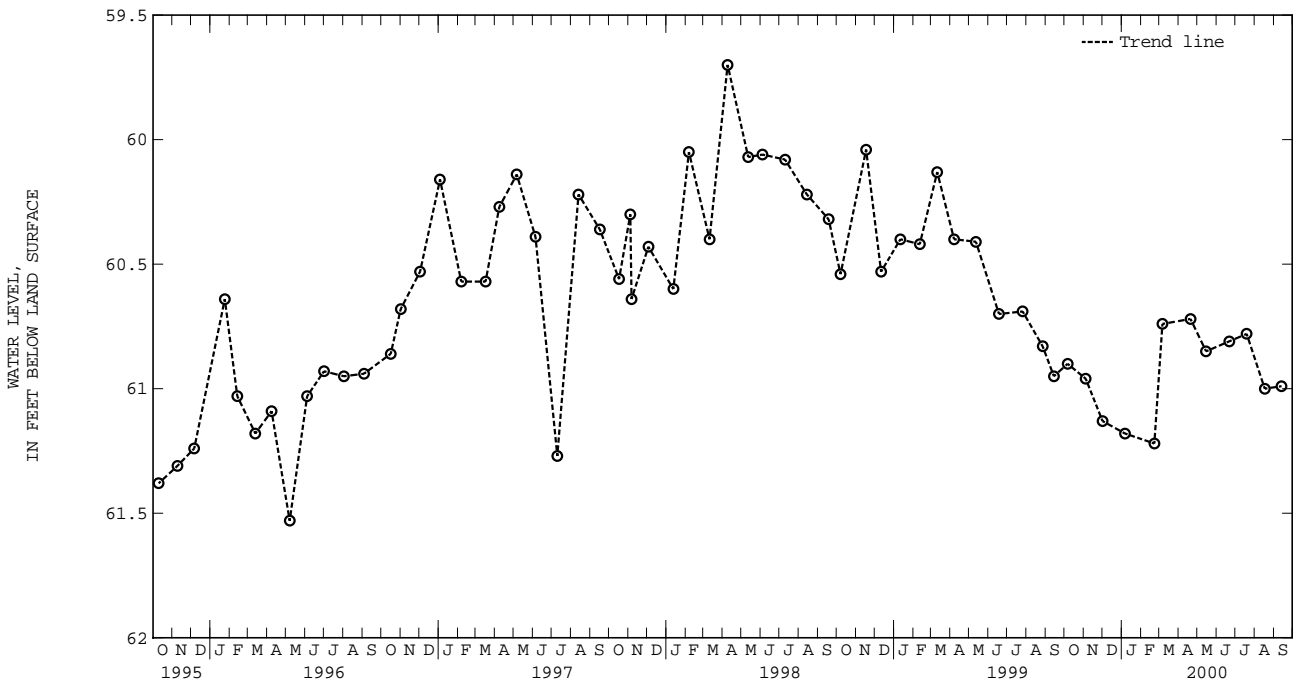
REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--May 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 59.70 ft below land surface, April 9, 1998;
lowest measured, 63.00 ft below land surface, May 12, 1988.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 1999	60.90	JAN 06, 2000	61.18	APR 20, 2000	60.72	JUL 19, 2000	60.78
NOV 04	60.96	FEB 22	61.22	MAY 15	60.85	AUG 17	61.00
DEC 01	61.13	MAR 06	60.74	JUN 21	60.81	SEP 13	60.99
WATER YEAR 2000 HIGHEST 60.72		APR 20, 2000		LOWEST 61.22		FEB 22, 2000	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

HARFORD COUNTY--Continued

WELL NUMBER.--HA Ed 49. SITE ID.--392455076192103. PERMIT NUMBER.--HA-81-4129.

LOCATION.--Lat 39°24'55", long 76°19'21", Hydrologic Unit 02060003, 0.2 mi east of the intersection of MD Rt. 152 and Trimble Road, Edgewood Park.

Owner: U.S. Geological Survey.

AQUIFER.--Talbot Formation of Pleistocene age. Aquifer code: 112TLBT.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 28 ft; casing diameter 4 in., to 13 ft, and 23 to 28 ft; screen diameter 4 in. from 13 to 23 ft.

INSTRUMENTATION.--Monthly measurement with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--15-minute recorder interval from June 3, 1988 to July 11, 1989.

DATUM.--Elevation of land surface is 91.89 ft above sea level.

Measuring point: Top of recorder shelf, 2.19 ft above land surface.

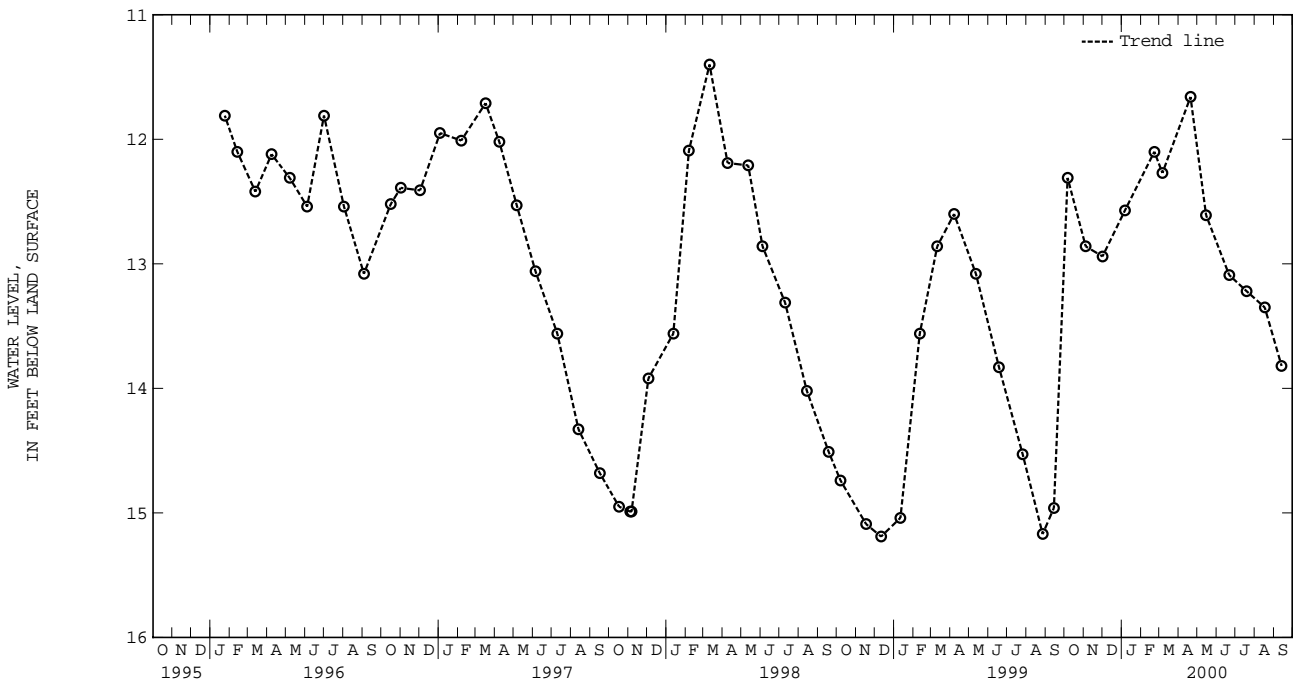
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--May 1988 to July 1995, January 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.40 ft below land surface, March 11, 1998; lowest measured, 15.19 ft below land surface, Dec. 11, 1998.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 1999	12.31	JAN 06, 2000	12.57	APR 20, 2000	11.66	JUL 19, 2000	13.22
NOV 04	12.86	FEB 22	12.10	MAY 15	12.61	AUG 17	13.35
DEC 01	12.94	MAR 06	12.27	JUN 21	13.09	SEP 13	13.82
WATER YEAR 2000 HIGHEST 11.66		APR 20, 2000		LOWEST 13.82		SEP 13, 2000	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

HOWARD COUNTY

WELL NUMBER.--HO Bd 1. SITE ID.--391910076565701.

LOCATION.--Lat 39°19'10", long 76°56'57", Hydrologic Unit 02060006, Slacks Corner near MD Rt. 32 and MD Rt. 99.

Owner: Maryland State Highway Administration.

AQUIFER.--Morgan Run Formation of Ordovician age. Aquifer code: 360MRGR.

WELL CHARACTERISTICS.--Dug, stone-lined, observation, water-table well, measured depth 48 ft; diameter 60 in.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 630 ft above sea level, from topographic map.

Measuring point: Hole in center of steel plate well cover, 0.40 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

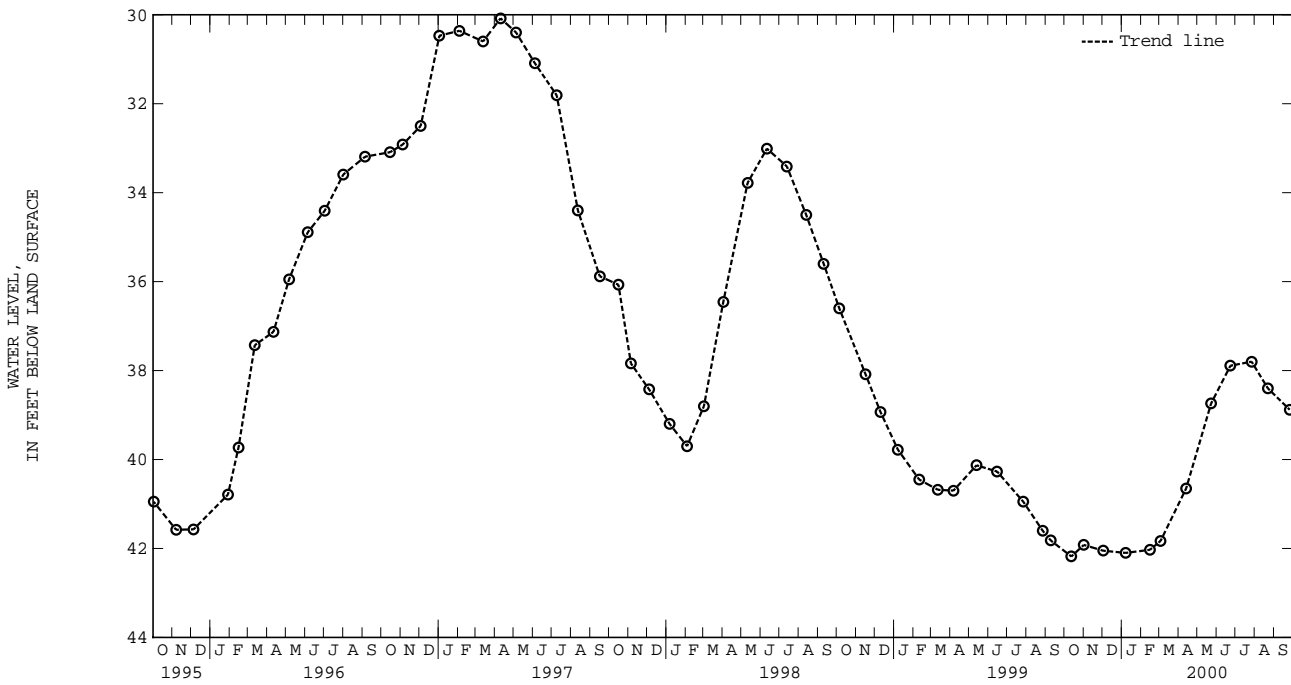
PERIOD OF RECORD.--October 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.76 ft below land surface, July 3, 1972;

lowest measured, 46.88 ft below land surface, Sept. 10, 1966.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 12, 1999	42.18	JAN 07, 2000	42.10	APR 13, 2000	40.65	JUL 27, 2000	37.80
NOV 01	41.92	FEB 15	42.03	MAY 23	38.74	AUG 22	38.40
DEC 02	42.05	MAR 03	41.83	JUN 23	37.89	SEP 26	38.88
WATER YEAR 2000 HIGHEST 37.80		JUL 27, 2000		LOWEST 42.18		OCT 12, 1999	



HOWARD COUNTY--Continued

WELL NUMBER.--HO Cd 79. SITE ID.--391445076555101. PERMIT NUMBER.--HO-81-2387.

LOCATION.--Lat 39°14'45", long 76°55'51", Hydrologic Unit 02060006, at University of Maryland Central Farm.

Owner: U.S. Geological Survey.

AQUIFER.--Loch Raven Formation of Cambrian age. Aquifer code: 360LCRV.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 55 ft; casing diameter 6 in., to 6 ft; and casing diameter 3.5 in. from +1.5 to 43 ft; open hole.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 452.37 ft above sea level.

Measuring point: Top of casing, 2.05 ft above land surface.

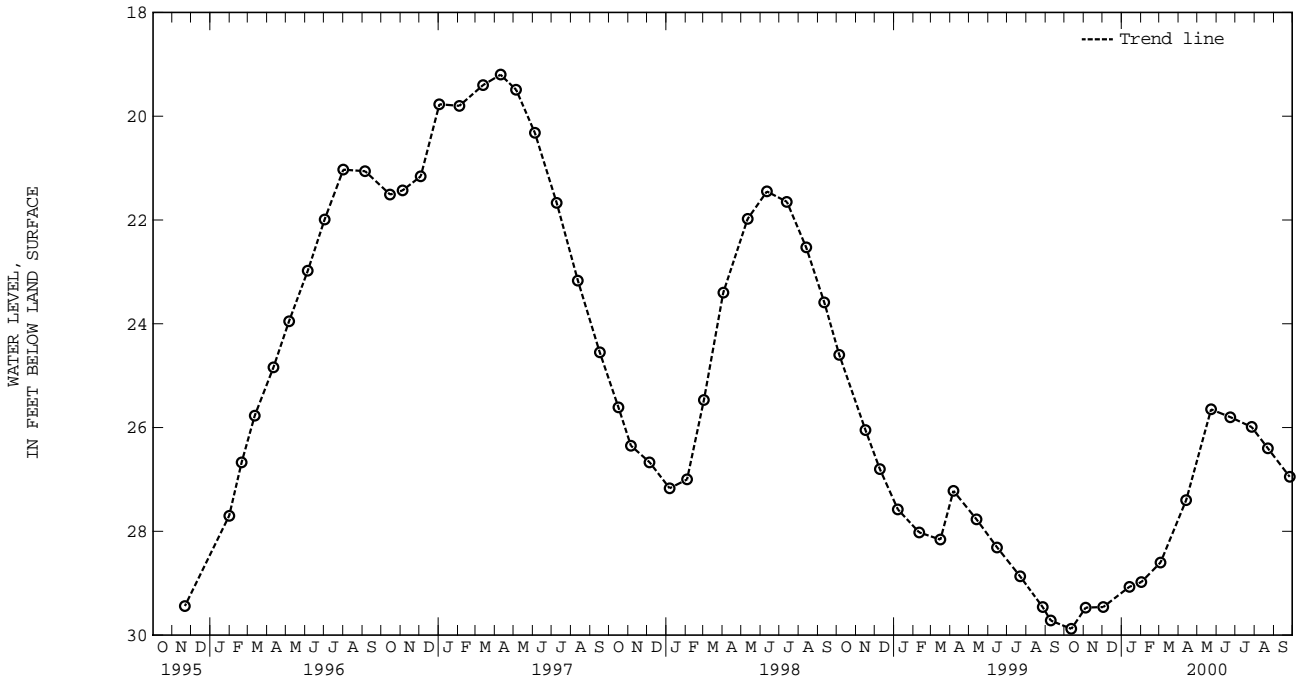
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--January 1988 to May 1993, November 1995, January 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.20 ft below land surface, April 10, 1997; lowest measured, 29.72 ft below land surface, Sept. 9, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 12, 1999	29.88	JAN 13, 2000	29.07	APR 13, 2000	27.40	JUL 27, 2000	25.99
NOV 04	29.47	FEB 01	28.98	MAY 23	25.65	AUG 22	26.40
DEC 02	29.46	MAR 03	28.60	JUN 23	25.80	SEP 26	26.95
WATER YEAR 2000 HIGHEST		25.65	MAY 23, 2000		LOWEST		29.88
OCT 12, 1999							



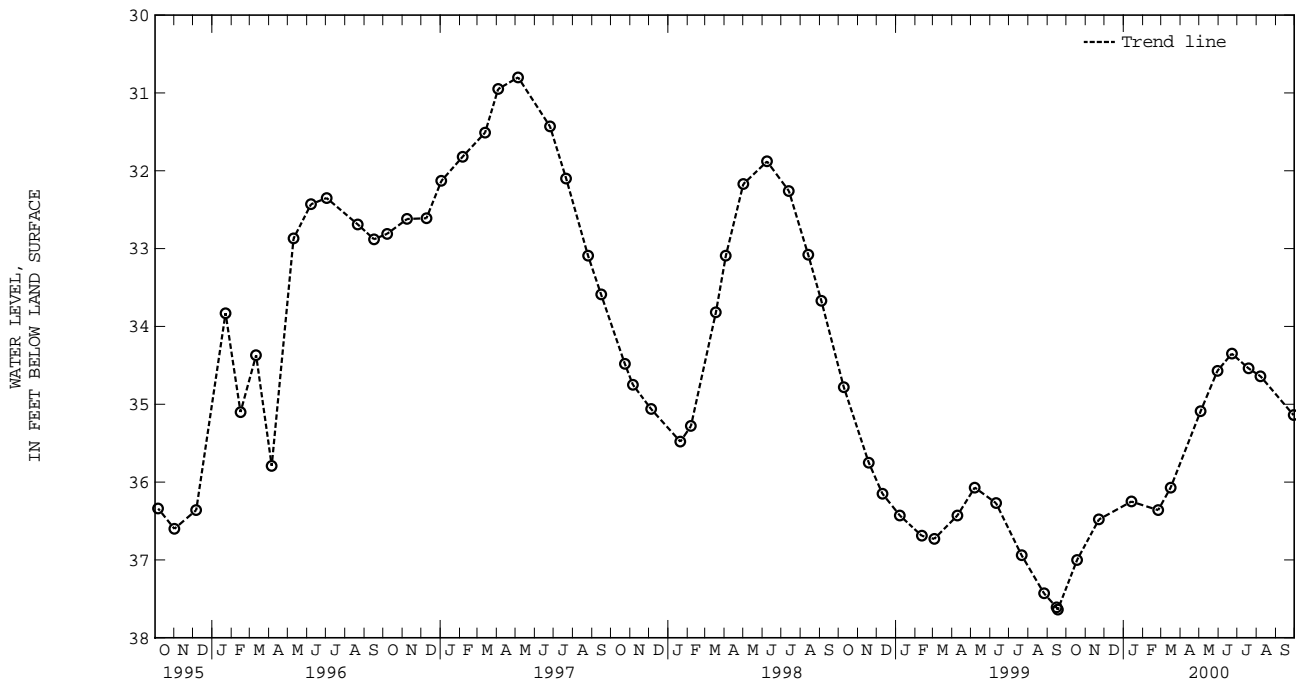
5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

HOWARD COUNTY--Continued

WELL NUMBER.--HO Ce 38. SITE ID.--391001076540001. PERMIT NUMBER.--HO-01-1827.
 LOCATION.--Lat 39°10'01", long 76°54'00", Hydrologic Unit 02060006, at Johns Hopkins University Applied Physics Lab, Scaggsville.
 Owner: Johns Hopkins University.
 AQUIFER.--Sykesville Formation of Ordovician age. Aquifer code: 360SKVL.
 WELL CHARACTERISTICS.--Drilled, unused, water-table well, depth 125 ft; casing diameter 6 in., to 51.4 ft; open hole.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder from Dec. 9, 1987 to April 27, 1990.
 DATUM.--Elevation of land surface is 430 ft above sea level, from topographic map.
 Measuring point: Top of casing, 1.45 ft below land surface.
 REMARKS.--Maryland Water-Level Network observation well.
 PERIOD OF RECORD.--May 1956 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.84 ft below land surface, May 5, 1972; lowest measured, 37.64 ft below land surface, Sept. 17, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 1999	37.00	FEB 25, 2000	36.36	MAY 30, 2000	34.57	AUG 07, 2000	34.64
NOV 22	36.48	MAR 16	36.07	JUN 22	34.35	SEP 29	35.14
JAN 13, 2000	36.25	MAY 03	35.09	JUL 19	34.54		
WATER YEAR 2000 HIGHEST 34.35		JUN 22, 2000		LOWEST 37.00		OCT 18, 1999	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

KENT COUNTY

WELL NUMBER.--KE Ac 20. SITE ID.--392007076075501. PERMIT NUMBER.--KE-73-0658.

LOCATION.--Lat 39°20'07", long 76°07'55", Hydrologic Unit 02060001, at U.S. Coast Guard Station at end of Still Pond Neck Road. Owner: U.S. Geological Survey.

AQUIFER.--Upper Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 582 ft; casing diameter 10 in., to 73 ft; casing diameter 4 in., to 550 ft and 560 to 582 ft; screen diameter 4 in. from 550 to 560 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Measured twice yearly from October 1986 to April 1991.

DATUM.--Elevation of land surface is 7 ft above sea level, from topographic map.

Measuring point: Top of casing, 3.30 ft above land surface.

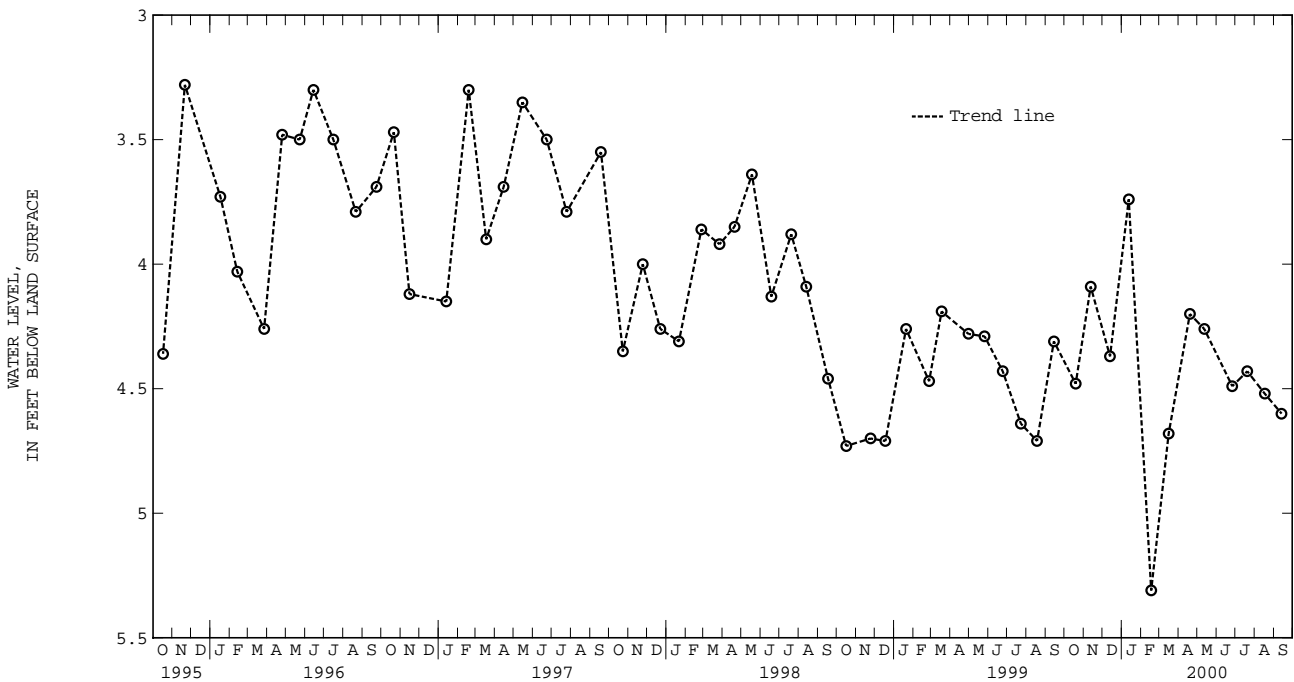
REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--December 1977 to December 1978, December 1985, October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.50 ft below land surface, April 13, 1978, May 5, 1978, and Dec. 11, 1985; lowest measured, 5.31 ft below land surface, Feb. 17, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 1999	4.48	JAN 12, 2000	3.74	APR 19, 2000	4.20	JUL 20, 2000	4.43
NOV 12	4.09	FEB 17	5.31	MAY 12	4.26	AUG 17	4.52
DEC 13	4.37	MAR 16	4.68	JUN 26	4.49	SEP 13	4.60
WATER YEAR 2000 HIGHEST		3.74	JAN 12, 2000 LOWEST		5.31	FEB 17, 2000	



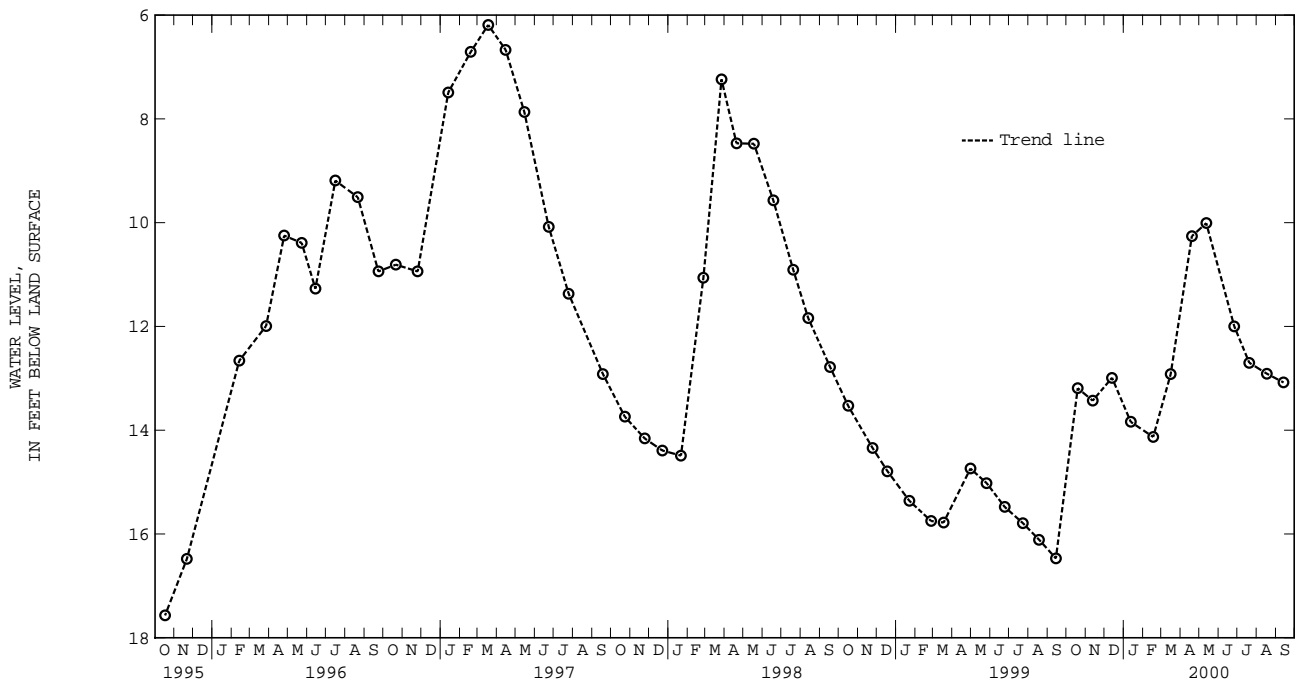
5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

KENT COUNTY--Continued

WELL NUMBER.--KE Bc 185. SITE ID.--391650076050402. PERMIT NUMBER.--KE-88-0255.
 LOCATION.--Lat 39°16'50", long 76°05'04", Hydrologic Unit 02060002, at Worton Regional Park, Worton.
 Owner: Maryland Geological Survey.
 AQUIFER.--Columbia aquifer of the Pensauken Formation of Upper Miocene age. Aquifer code: 112CLMB.
 WELL CHARACTERISTICS.--Drilled, observation well, water-table well, depth 55 ft; casing diameter 4 in., to 40 ft; screen diameter 4 in. from 40 to 50 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from February 1992 to October 1993.
 DATUM.--Elevation of land surface is 84.49 ft above sea level.
 Measuring Point: Top of metal sleeve, 2.41 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well.
 PERIOD OF RECORD.--October 1991 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.19 ft below land surface, March 18, 1997;
 lowest measured, 20.23 ft below land surface, Dec. 12-14, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 1999	13.19	JAN 12, 2000	13.84	APR 19, 2000	10.26	JUL 20, 2000	12.70
NOV 12	13.43	FEB 17	14.13	MAY 12	10.01	AUG 17	12.91
DEC 13	12.99	MAR 16	12.92	JUN 26	12.00	SEP 13	13.08
WATER YEAR 2000 HIGHEST		10.01	MAY 12, 2000		LOWEST		14.13
				FEB 17, 2000			

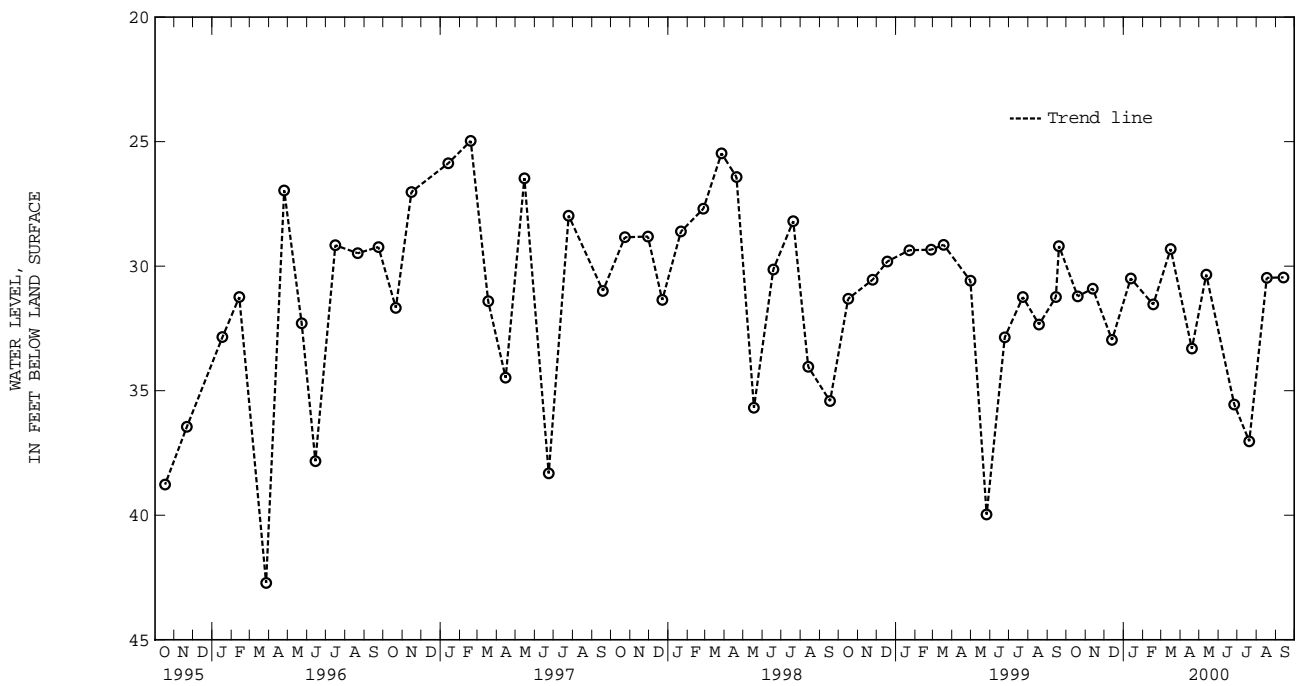


KENT COUNTY--Continued

WELL NUMBER.--KE Be 43. SITE ID.--391823075594701. PERMIT NUMBER.--KE-73-0659.
 LOCATION.--Lat 39°18'23", long 75°59'45", Hydrologic Unit 02060002, at Kennedyville.
 Owner: U.S. Geological Survey.
 AQUIFER.--Magothy Formation of Upper Cretaceous age. Aquifer code: 211MGTY.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 297 ft; casing diameter 10 in., to 171 ft; casing diameter 4 in. to 275 ft, and 285 to 297 ft; screen diameter 4 in. from 275 to 285 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Twice yearly measurements from October 1986 to April 1991.
 DATUM.--Elevation of land surface is 65 ft above sea level, from topographic map.
 Measuring point: Top of casing, 1.60 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.
 PERIOD OF RECORD.--February 1979 to July 1979, December 1985, October 1986 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.31 ft below land surface, June 5, 1979; lowest measured, 42.72 ft below land surface, March 27, 1996.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 1999	31.21	JAN 12, 2000	30.49	APR 19, 2000	33.31	JUL 20, 2000	37.03
NOV 12	30.90	FEB 17	31.54	MAY 12	30.34	AUG 17	30.47
DEC 13	32.96	MAR 16	29.31	JUN 26	35.56	SEP 13	30.45
WATER YEAR 2000 HIGHEST		29.31	MAR 16, 2000		LOWEST		37.03
							JUL 20, 2000



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

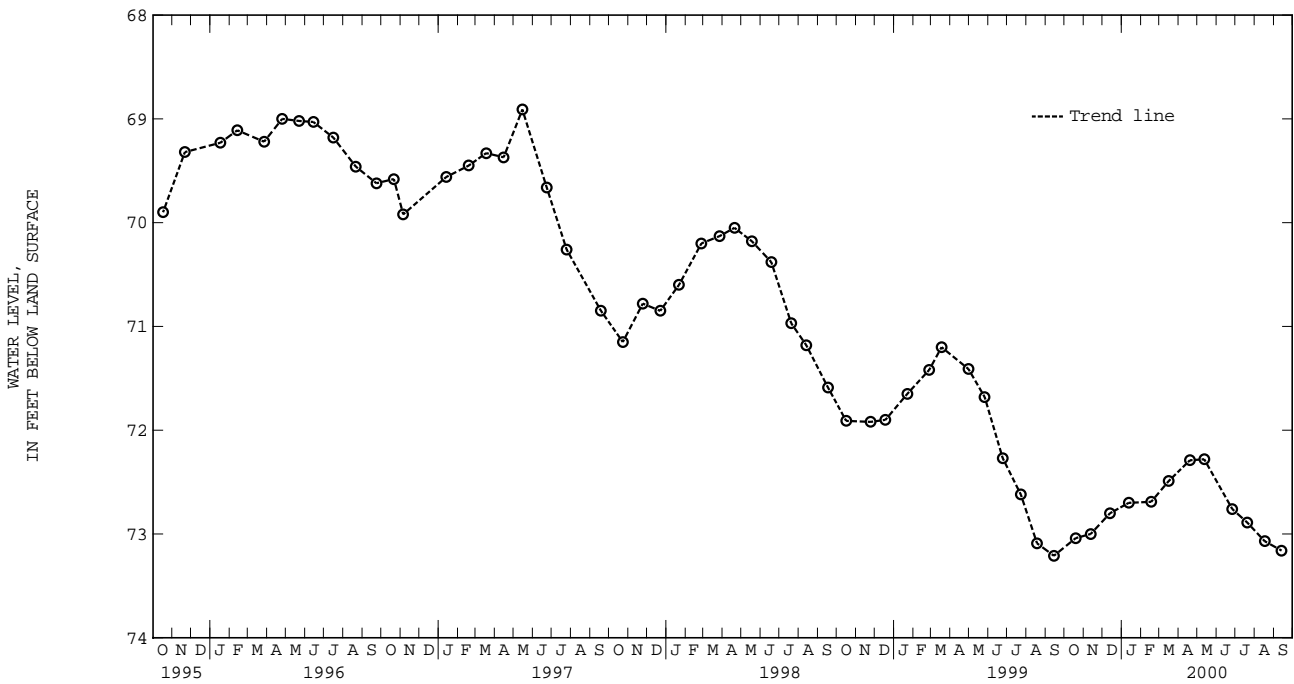
GROUND-WATER LEVELS IN MARYLAND--Continued

KENT COUNTY--Continued--Continued

WELL NUMBER.--KE Bg 33. SITE ID.--391815075472101. PERMIT NUMBER.--KE-73-0670.
 LOCATION.--Lat 39°18'15", long 75°47'21", Hydrologic Unit 02060002, 2 mi west of Massey at Millington Wildlife Management Area.
 Owner: U.S. Geological Survey.
 AQUIFER.--Upper Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 705 ft; casing diameter 4 in., to 695 ft; screen diameter 4 in. from 695 to 705 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Measured twice yearly from October 1986 to April 1994.
 DATUM.--Elevation of land surface is 65 ft above sea level, from topographic map.
 Measuring point: Top of casing, 3.50 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by regional ground-water withdrawal.
 PERIOD OF RECORD.--March 1979 to July 1979, December 1985, October 1986 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 61.62 ft below land surface, June 5, 1979; lowest measured, 73.21 ft below land surface, Sept. 14, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 1999	73.04	JAN 12, 2000	72.70	APR 19, 2000	72.29	JUL 20, 2000	72.89
NOV 12	73.00	FEB 17	72.69	MAY 12	72.28	AUG 17	73.07
DEC 13	72.80	MAR 16	72.49	JUN 26	72.76	SEP 13	73.16
WATER YEAR 2000 HIGHEST 72.28		MAY 12, 2000		LOWEST 73.16		SEP 13, 2000	



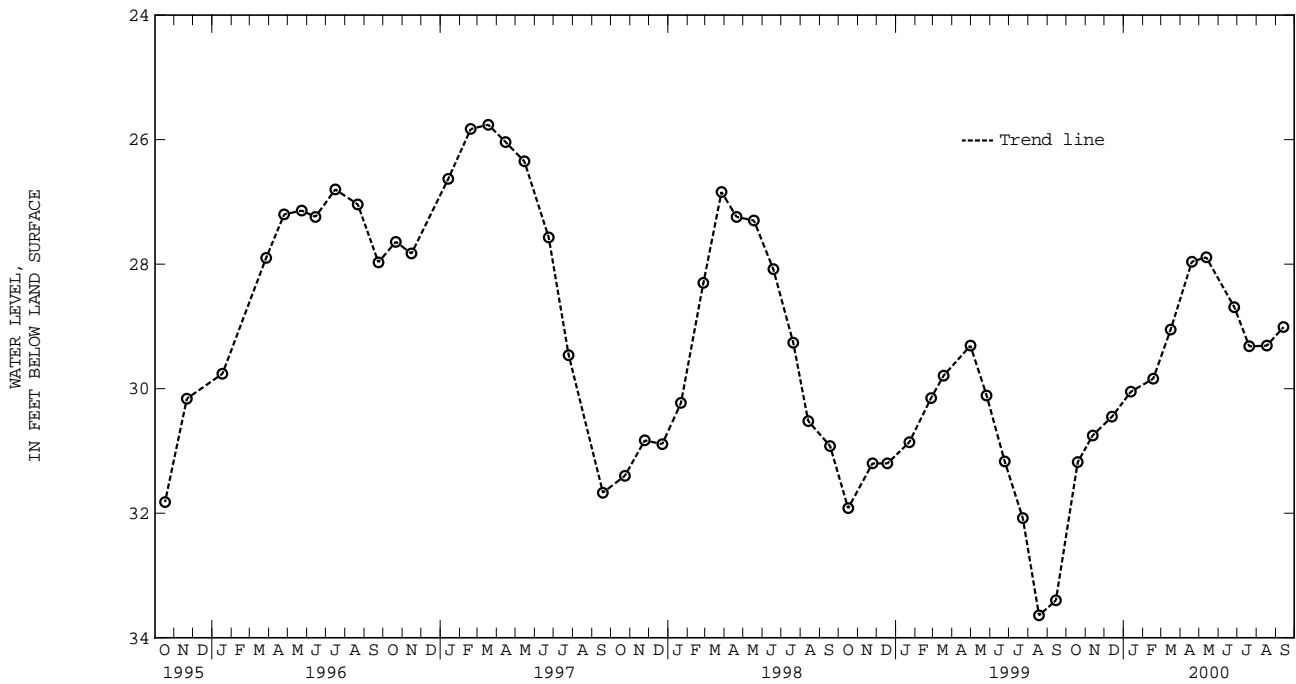
5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

KENT COUNTY--Continued

WELL NUMBER.--KE Bg 34. SITE ID.--391815075472102. PERMIT NUMBER.--KE-73-0686.
 LOCATION.--Lat 39°18'15", long 75°47'22", Hydrologic Unit 02060002, 2 mi west of Massey, at Millington Wildlife Management Area.
 Owner: U.S. Geological Survey.
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 186 ft; casing diameter 6 in., to 124 ft; screen diameter 6 in. from 124 to 186 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Measured twice yearly from October 1986 to October 1994.
 DATUM.--Elevation of land surface is 65 ft above sea level, from topographic map.
 Measuring point: Top of casing, 2.00 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well.
 PERIOD OF RECORD.--April 1979 to July 1979, December 1985, October 1986 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.37 ft below land surface, April 11, 1979; lowest measured, 36.23 ft below land-surface datum, Sept. 2, 1981.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 1999	31.18	JAN 12, 2000	30.05	APR 19, 2000	27.96	JUL 20, 2000	29.32
NOV 12	30.75	FEB 17	29.84	MAY 12	27.89	AUG 17	29.31
DEC 13	30.45	MAR 16	29.05	JUN 26	28.69	SEP 13	29.01
WATER YEAR 2000 HIGHEST		27.89	MAY 12, 2000		LOWEST		31.18
						OCT 19, 1999	



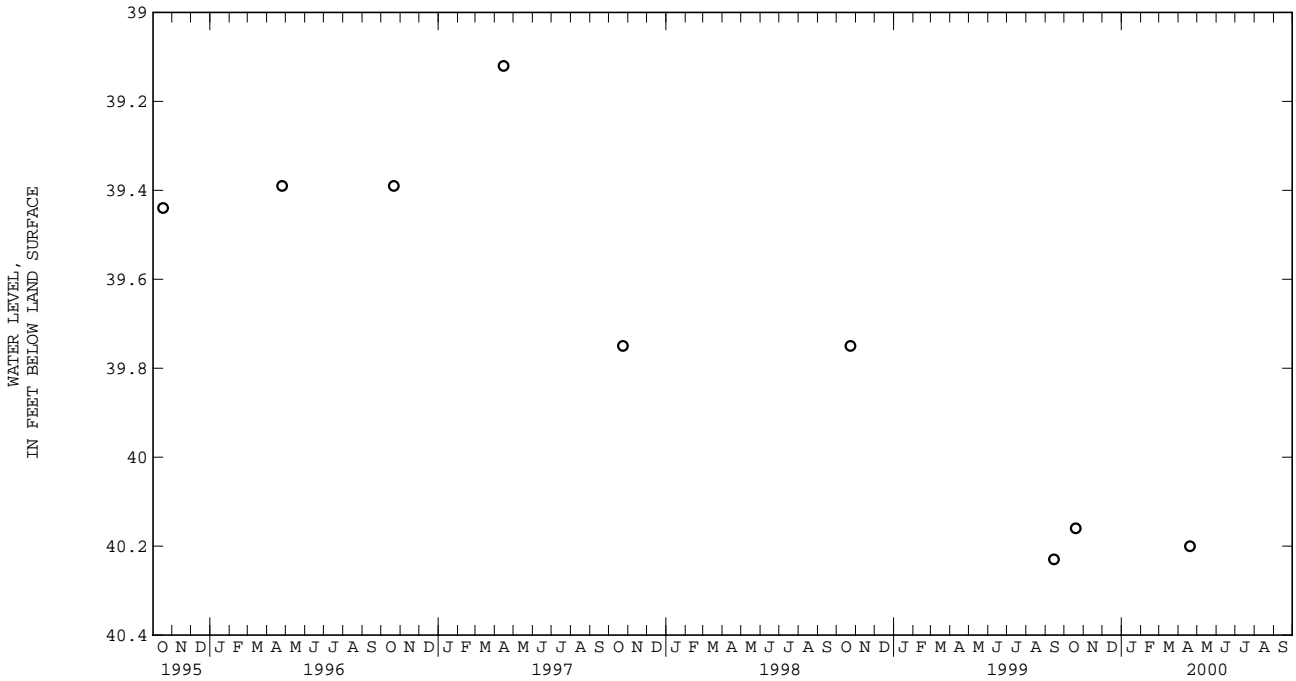
GROUND-WATER LEVELS IN MARYLAND--Continued

KENT COUNTY--Continued

WELL NUMBER.--KE Cb 36. SITE ID.--391400076101401. PERMIT NUMBER.--KE-73-0660.
 LOCATION.--Lat 39°14'00", long 76°10'14", Hydrologic Unit 02060002, .75 mi north of Fairlee.
 Owner: U.S. Geological Survey.
 AQUIFER.--Upper Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 650 ft; casing diameter 10 in., to 114 ft; casing diameter 4 in., to 595 ft and 605 to 650 ft; screen diameter 4 in. from 595 to 605 ft.
 INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel. Measured twice yearly from October 1986 to April 1991. Equipped with digital water-level recorder--30-minute recorder interval from July 16, 1991 to October 1993.
 DATUM.--Elevation of land surface is 40 ft above sea level, from topographic map.
 Measuring point: Top of casing, 4.38 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by regional ground-water withdrawal.
 PERIOD OF RECORD.--June 1978 to July 1979, December 1985, October 1986 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.84 ft below land surface, Sept. 15, 1982; lowest measured, 40.23 ft below land surface, Sept. 14, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 1999	40.16	APR 19, 2000	40.20
WATER YEAR 2000 HIGHEST 40.16		OCT 19, 1999 LOWEST 40.20	



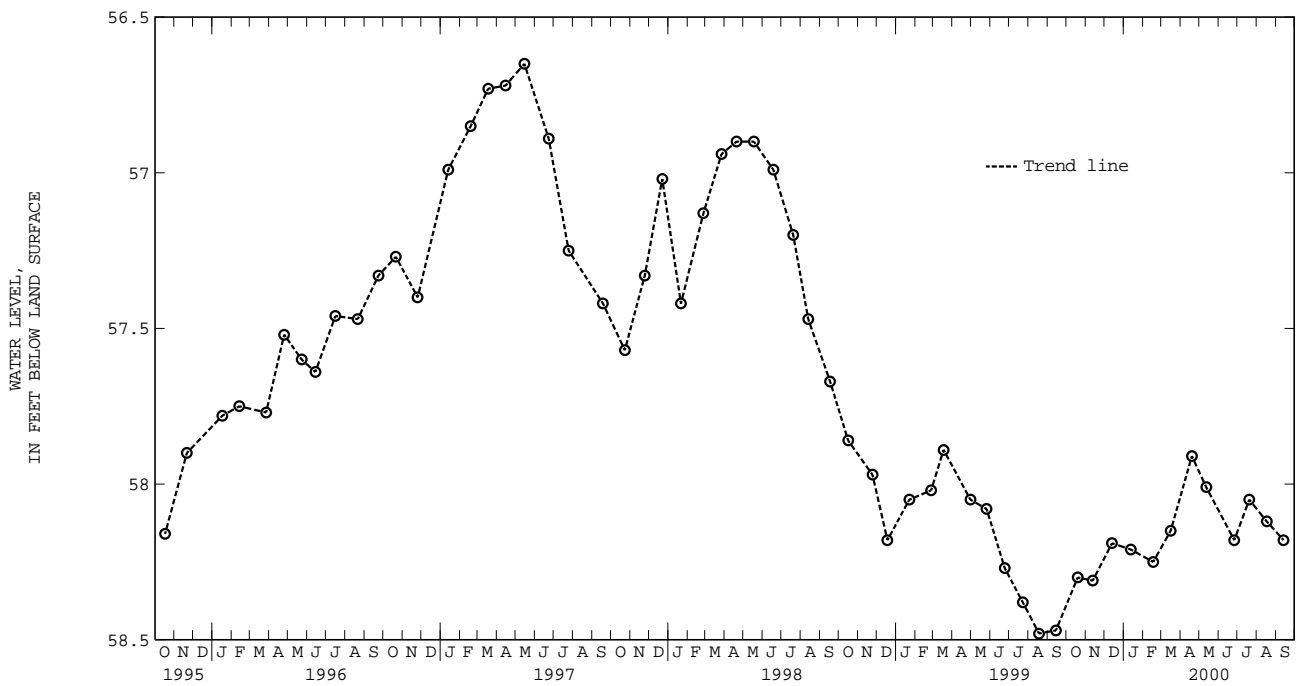
5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

KENT COUNTY--Continued

WELL NUMBER.--KE Cb 97. SITE ID.--391124076101001. PERMIT NUMBER.--KE-88-0251.
 LOCATION.--Lat 39°11'24", long 76°10'10", Hydrologic Unit 02060002, 1.3 mi southeast of McCleans Corner, at Remington Farms.
 Owner: Maryland Geological Survey.
 AQUIFER.--Magothy Formation of the Upper Cretaceous age. Aquifer code: 211MGTY.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 285 ft; casing diameter 4 in., to 270 ft; screen diameter 4 in. from 270 to 280 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from February 1992 to October 1993.
 DATUM.--Elevation of land surface is 65.84 ft above sea level.
 Measuring Point: Top of metal sleeve, 2.3 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.
 PERIOD OF RECORD.--October 1991 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 56.40 ft below land surface, Oct. 24, 1991; lowest measured, 58.48 ft below land surface, Aug. 18, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 1999	58.30	JAN 12, 2000	58.21	APR 19, 2000	57.91	JUL 20, 2000	58.05
NOV 12	58.31	FEB 17	58.25	MAY 12	58.01	AUG 17	58.12
DEC 13	58.19	MAR 16	58.15	JUN 26	58.18	SEP 13	58.18
WATER YEAR 2000 HIGHEST 57.91		APR 19, 2000		LOWEST 58.31		NOV 12, 1999	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

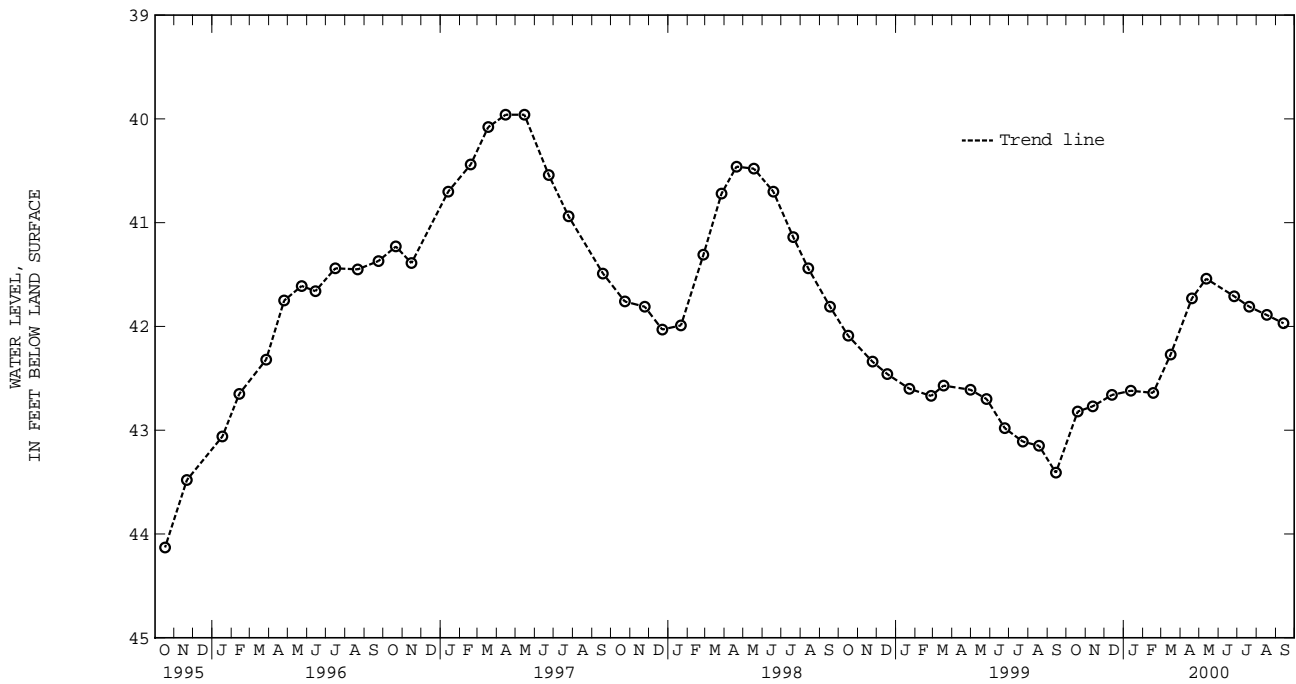
GROUND-WATER LEVELS IN MARYLAND--Continued

KENT COUNTY--Continued

WELL NUMBER.--KE Cb 98. SITE ID.--391124076101002. PERMIT NUMBER.--KE-88-0254.
 LOCATION.--Lat 39°11'24", long 76°10'10", Hydrologic Unit 02060002, 1.3 mi southeast of McCleans Corner, at Remington Farms.
 Owner: Maryland Geological Survey.
 AQUIFER.--Monmouth aquifer of the Mount Laurel Formation of Upper Cretaceous age. Aquifer code: 211MNMT.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 225 ft; casing diameter 4 in., to 210 ft and 220 to 225 ft; screen diameter 4 in. from 210 to 220 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from February 1992 to October 1993.
 DATUM.--Elevation of land surface is 68.38 ft above sea level.
 Measuring Point: Top of metal sleeve, 2.54 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well.
 PERIOD OF RECORD.--October 1991 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39.96 ft below land surface, April 15, 1997 and May 15, 1997; lowest measured, 44.23 ft below land surface, Sept. 19, 1995.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 1999	42.82	JAN 12, 2000	42.62	APR 19, 2000	41.73	JUL 20, 2000	41.81
NOV 12	42.77	FEB 17	42.64	MAY 12	41.54	AUG 17	41.89
DEC 13	42.66	MAR 16	42.27	JUN 26	41.71	SEP 13	41.97
WATER YEAR 2000 HIGHEST		41.54	MAY 12, 2000 LOWEST		42.82	OCT 19, 1999	

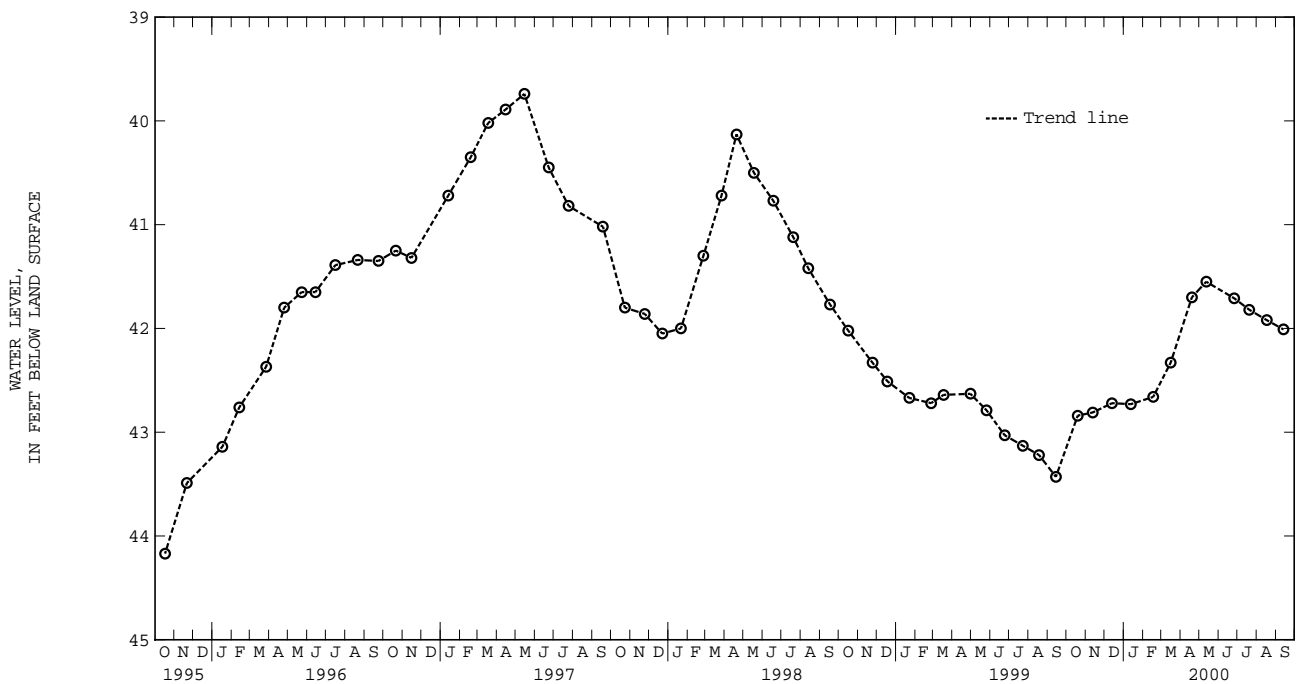


KENT COUNTY--Continued

WELL NUMBER.--KE Cb 99. SITE ID.--391124076101003. PERMIT NUMBER.--KE-88-0252.
 LOCATION.--Lat 39°11'24", long 76°10'10", Hydrologic Unit 02060002, 1.3 mi southeast of McCleans Corner, at Remington Farms.
 Owner: Maryland Geological Survey.
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 134 ft; casing diameter 4 in., to 118 ft; screen diameter 4 in. from 118 to 128 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from February 1992 to October 1993.
 DATUM.--Elevation of land surface is 68.38 ft above sea level.
 Measuring Point: Top of metal sleeve, 2.53 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well.
 PERIOD OF RECORD.--October 1991 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39.74 ft below land surface, May 15, 1997; lowest measured, 44.17 ft below land surface, Oct. 17, 1995.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 1999	42.84	JAN 12, 2000	42.73	APR 19, 2000	41.70	JUL 20, 2000	41.82
NOV 12	42.81	FEB 17	42.66	MAY 12	41.55	AUG 17	41.92
DEC 13	42.72	MAR 16	42.33	JUN 26	41.71	SEP 13	42.01
WATER YEAR 2000 HIGHEST		41.55	MAY 12, 2000		LOWEST	42.84	OCT 19, 1999



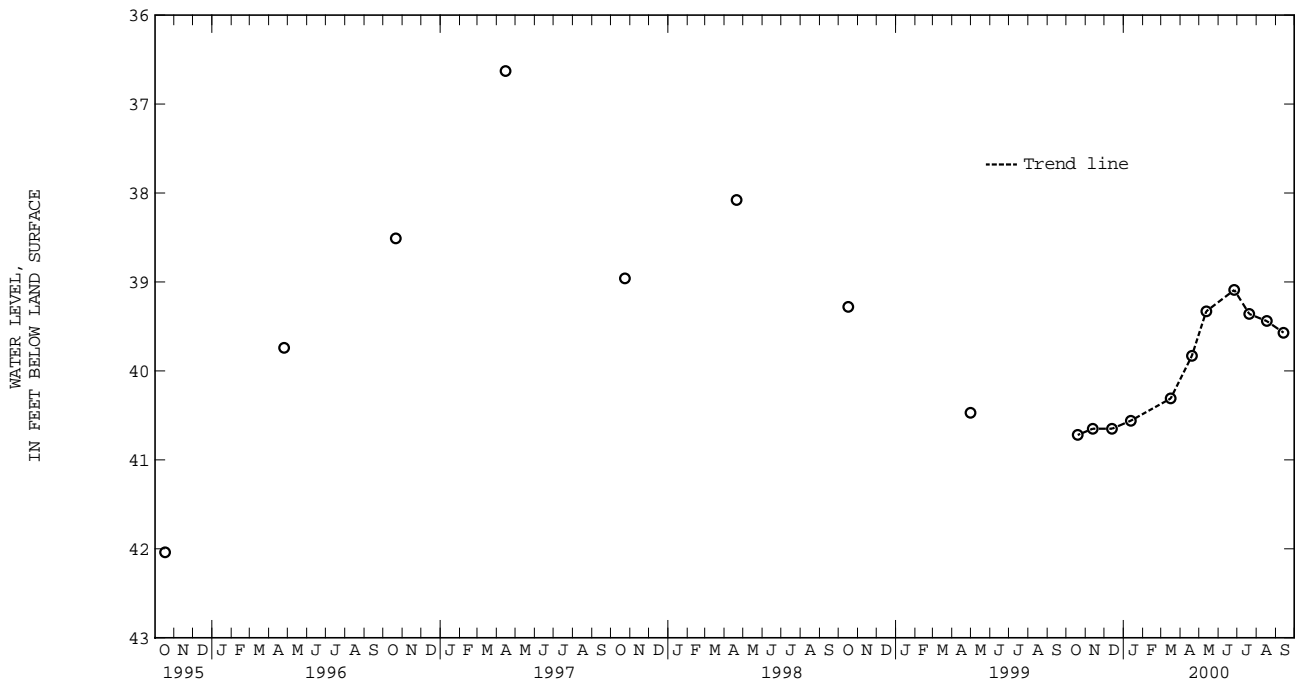
GROUND-WATER LEVELS IN MARYLAND--Continued

KENT COUNTY--Continued

WELL NUMBER.--KE Cb 100. SITE ID.--391124076101004. PERMIT NUMBER.--KE-88-0253.
 LOCATION.--Lat 39°11'24", long 76°10'10", Hydrologic Unit 02060002, 1.3 mi southeast of McCleans Corners, at Remington Farms.
 Owner: Maryland Geological Survey.
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 67 ft; casing diameter 4 in., to 52 ft, and 62 to 67 ft;
 screen diameter 4 in. from 52 to 62 ft.
 INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital
 water-level recorder--60-minute recorder interval from February 1992 to October 1993.
 DATUM.--Elevation of land surface is 68.29 ft above sea level.
 Measuring Point: Top of metal sleeve, 2.56 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well.
 PERIOD OF RECORD.--October 1991 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 36.63 ft below land surface, April 15, 1997;
 lowest measured, 42.04 ft below land surface, Oct. 17, 1995.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 1999	40.72	JAN 12, 2000	40.56	MAY 12, 2000	39.33	AUG 17, 2000	39.44
NOV 12	40.65	MAR 16	40.31	JUN 26	39.09	SEP 13	39.57
DEC 13	40.65	APR 19	39.83	JUL 20	39.36		
WATER YEAR 2000 HIGHEST		39.09	JUN 26, 2000 LOWEST		40.72	OCT 19, 1999	



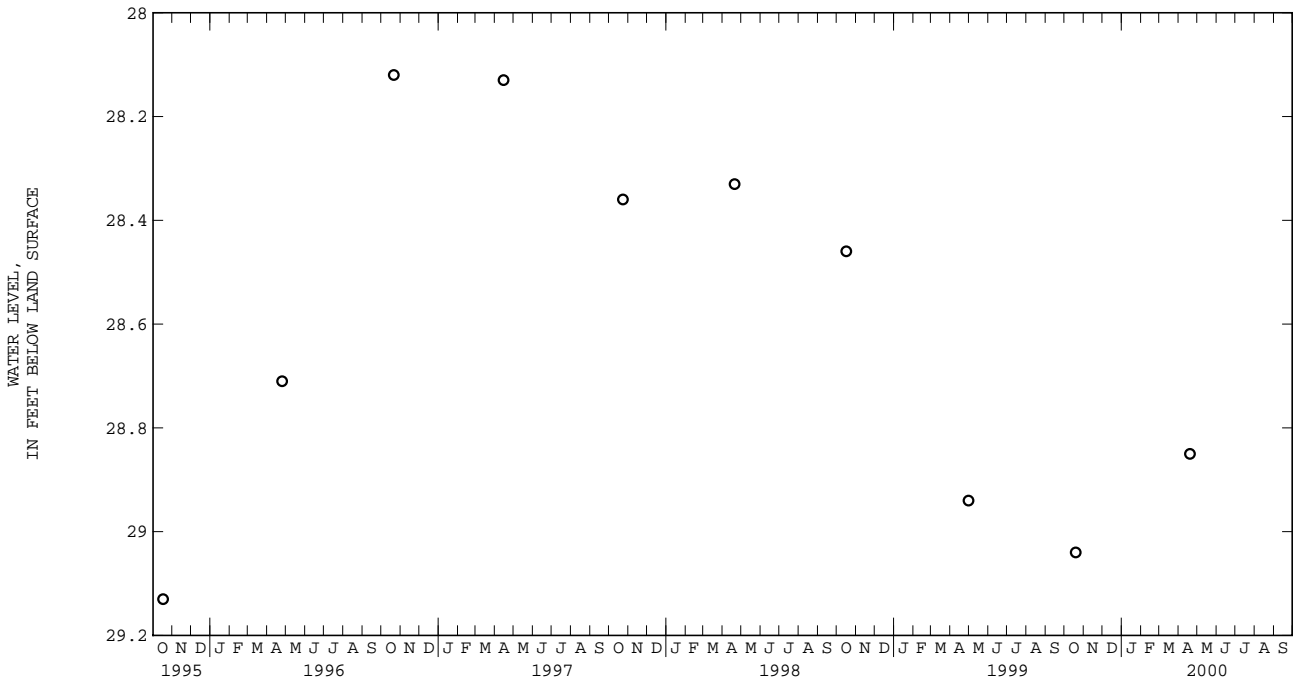
5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

KENT COUNTY--Continued

WELL NUMBER.--KE Cb 101. SITE ID.--391251076142201. PERMIT NUMBER.--KE-88-0250.
 LOCATION.--Lat 39°12'48", long 76°14'22", Hydrologic Unit 02060002, 0.4 mi east of Tolchester Beach, south of MD Rt. 21.
 Owner: Maryland Geological Survey.
 AQUIFER.--Columbia aquifer of the Kent Island Formation of Pleistocene age. Aquifer code: 112CLMB.
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 73 ft; casing diameter 4 in., to 58 ft, and 68 to 73 ft;
 screen diameter 4 in. from 58 to 68 ft.
 INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital
 water-level recorder--60-minute recorder interval from February 1992 to October 1993.
 DATUM.--Elevation of land surface is 31.12 ft above sea level.
 Measuring Point: Top of metal sleeve, 2.6 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Gate locked on April 1995 visit.
 PERIOD OF RECORD.--October 1991 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.12 ft below land surface, Oct. 21, 1996;
 lowest measured, 29.47 ft below land surface, Dec. 8, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 1999	29.04	APR 19, 2000	28.85
WATER YEAR 2000 HIGHEST		28.85	APR 19, 2000
LOWEST		29.04	OCT 19, 1999



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

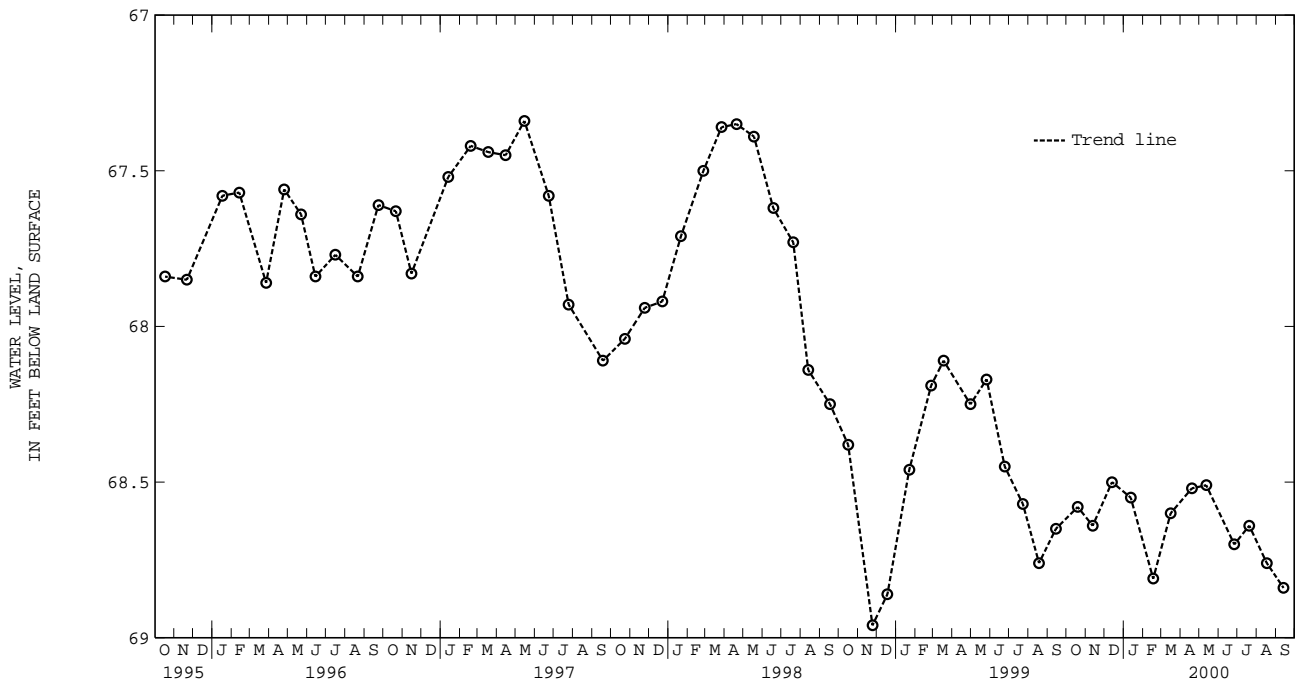
GROUND-WATER LEVELS IN MARYLAND--Continued

KENT COUNTY--Continued

WELL NUMBER.--KE Cb 103. SITE ID.--391124076101005. PERMIT NUMBER.--KE-88-0288.
 LOCATION.--Lat 39°11'24", long 76°10'10", Hydrologic Unit 02060002, 1.3 mi southeast of McCleans Corner, at Remington Farms.
 Owner: Maryland Geological Survey.
 AQUIFER.--Upper Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 404 ft; casing diameter 4 in., to 389 ft, and 399 to 404 ft; screen diameter 4 in. from 389 to 399 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from February 1992 to October 1993.
 DATUM.--Elevation of land surface is 65.60 ft above sea level.
 Measuring Point: Top of metal sleeve, 2.54 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels affected by ground-water withdrawal.
 PERIOD OF RECORD.--February 1992 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 65.64 ft below land surface, April 2, 1992;
 lowest measured, 68.96 ft below land surface, Nov. 24, 1998.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 1999	68.58	JAN 12, 2000	68.55	APR 19, 2000	68.52	JUL 20, 2000	68.64
NOV 12	68.64	FEB 17	68.81	MAY 12	68.51	AUG 17	68.76
DEC 13	68.50	MAR 16	68.60	JUN 26	68.70	SEP 13	68.84
WATER YEAR 2000 HIGHEST 68.50 DEC 13, 1999		LOWEST 68.84		SEP 13, 2000			

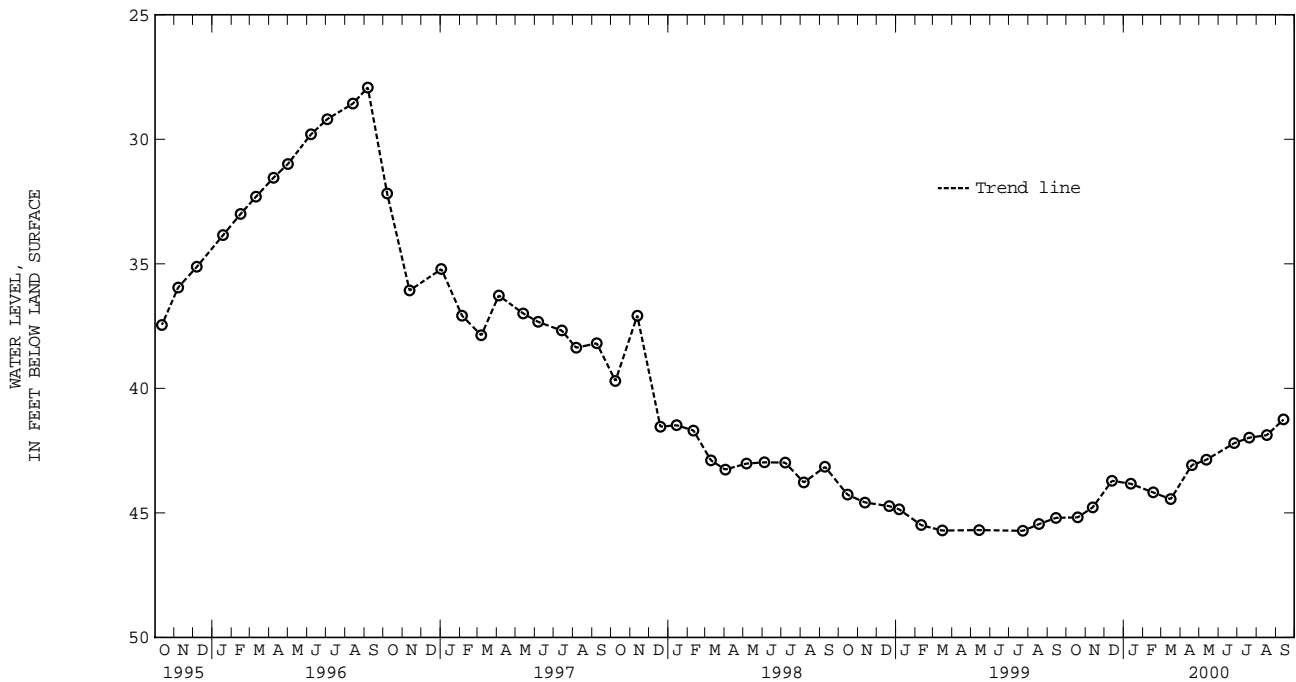


KENT COUNTY--Continued

WELL NUMBER.--KE Cd 44. SITE ID.--391432076015501. PERMIT NUMBER.--KE-03-6139.
 LOCATION.--Lat 39°14'32", long 76°01'55", Hydrologic Unit 02060002, MD Rt. 291, 2.6 mi northeast of Chestertown.
 Owner: Chestertown Foods
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.
 WELL CHARACTERISTICS.--Drilled, unused, artesian well, depth 84 ft; casing diameter 4 in., to 79 ft; screen diameter 5 in. from 79 to 84 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 50 ft above sea level, from topographic map.
 Measuring point: Top of casing, 0.20 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels measured by plant personnel with an electric tape, Sept. 18, 1959 to April 18, 1963. Food processing plant closed from Aug. 31, 1995 to Sept. 30, 1996. Water levels affected by local ground-water withdrawal.
 PERIOD OF RECORD.--September 1959 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.00 ft below land surface, Sept. 18, 1959; lowest measured, 54.46 ft below land surface, Aug. 4, 1966.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 1999	45.18	JAN 12, 2000	43.83	APR 19, 2000	43.08	JUL 20, 2000	41.98
NOV 12	44.78	FEB 17	44.18	MAY 12	42.87	AUG 17	41.88
DEC 13	43.71	MAR 16	44.45	JUN 26	42.20	SEP 13	41.25
WATER YEAR 2000 HIGHEST		41.25	SEP 13, 2000		LOWEST		45.18
						OCT 19, 1999	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

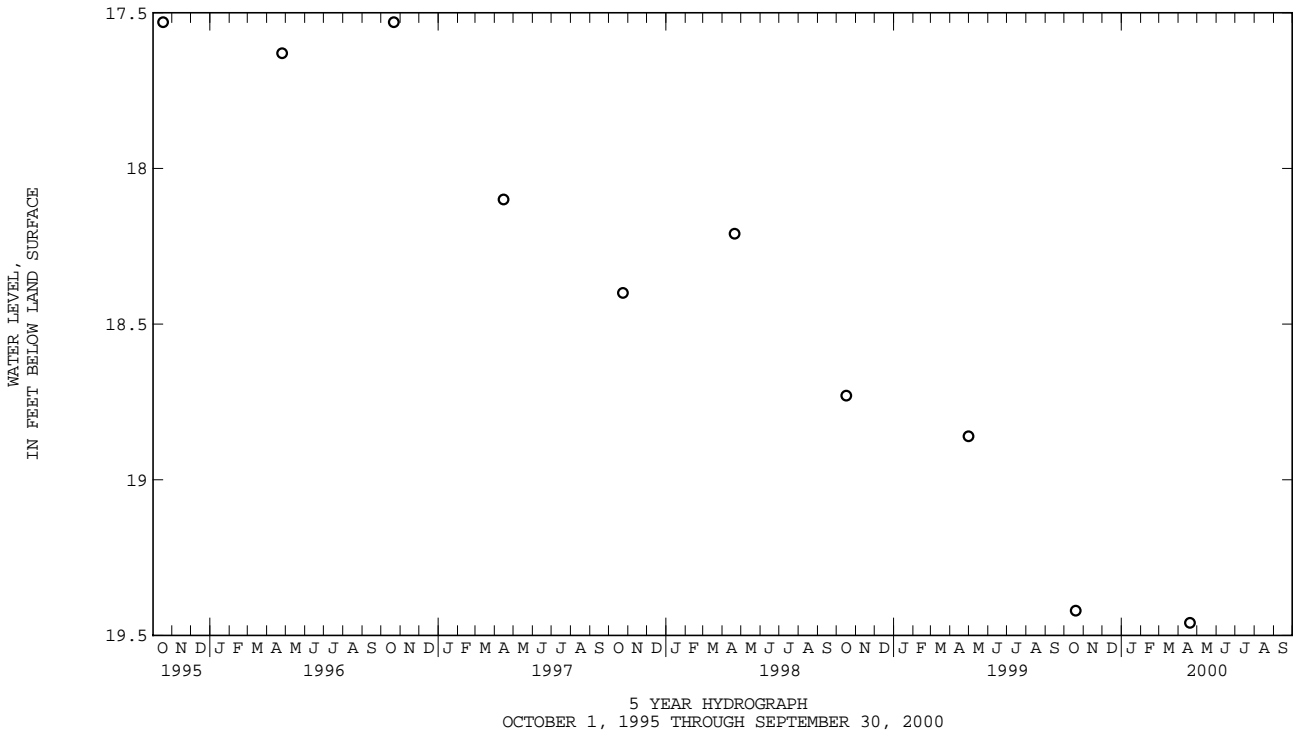
GROUND-WATER LEVELS IN MARYLAND--Continued

KENT COUNTY--Continued

WELL NUMBER.--KE Db 40. SITE ID.--390837076140401. PERMIT NUMBER.--KE-73-0805.
 LOCATION.--Lat 39°08'37", long 76°14'04", Hydrologic Unit 02070002, near Rock Hall.
 Owner: U.S. Geological Survey.
 AQUIFER.--Upper Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 1,030 ft; casing diameter 4 in., to 1,019 ft; screen diameter 4 in. from 1,019 to 1,030 ft.
 INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 15 ft above sea level, from topographic map.
 Measuring point: Top of casing, 1.65 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Measured twice yearly since October 1986. Water levels are affected by regional ground-water withdrawal.
 PERIOD OF RECORD.--December 1978 to July 1979, October 1986 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.08 ft below land surface, Oct. 30, 1980; lowest measured, 19.46 ft below land surface, April 19, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL			
OCT 19, 1999	19.42	APR 19, 2000	19.46			
WATER YEAR 2000	HIGHEST	19.42	OCT 19, 1999	LOWEST	19.46	APR 19, 2000



KENT COUNTY--Continued

WELL NUMBER.--KE Dc 89. SITE ID.--390626076083301. PERMIT NUMBER.--KE-88-0246.

LOCATION.--Lat 39°06'26", long 76°08'33", Hydrologic Unit 02060002, at the end of Cliffs City Rd.

Owner: Maryland Geological Survey.

AQUIFER.--Columbia aquifer of the Kent Island Formation of Pleistocene age. Aquifer code: 112CLMB.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 29 ft; casing diameter 4 in., to 14 ft, and 24 to 29 ft; screen diameter 4 in. from 14 to 24 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from February 1992 to October 1993.

DATUM.--Elevation of land surface is 4.52 ft above sea level.

Measuring Point: Top of metal sleeve, 2.44 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

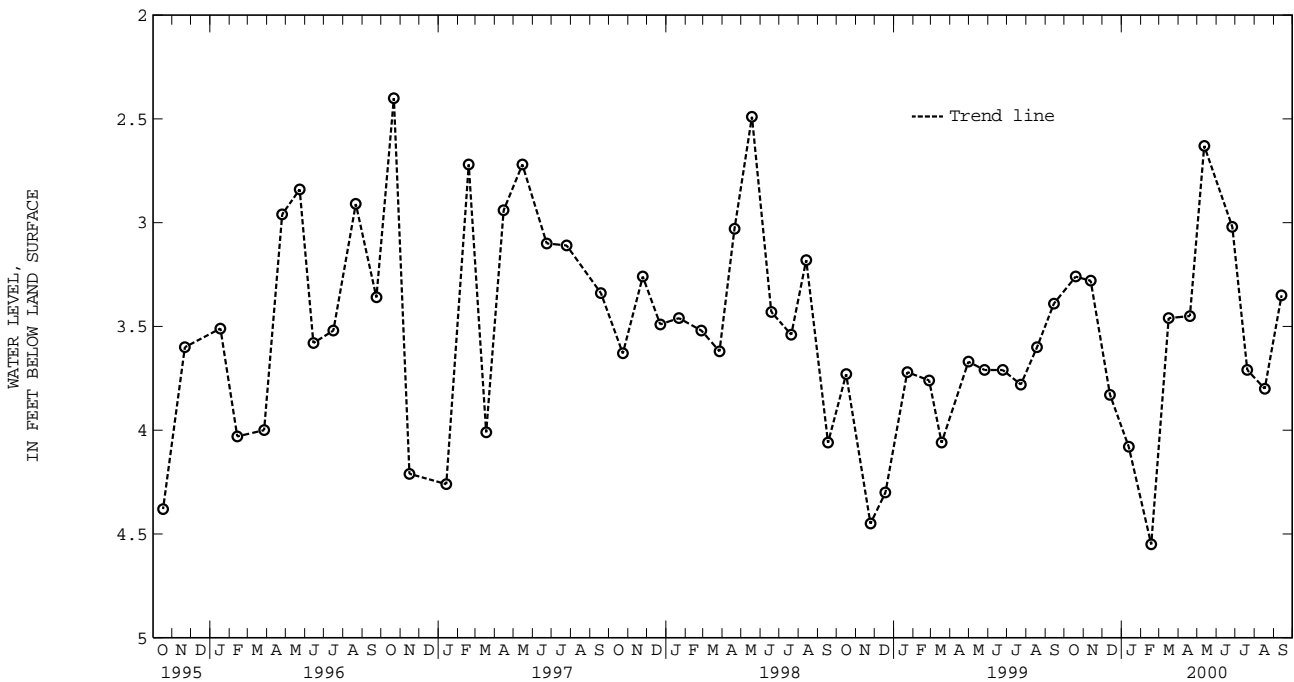
PERIOD OF RECORD.--October 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.40 ft below land surface, Oct. 21, 1996;

lowest measured, 5.14 ft below land surface, Jan. 20, 1993.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 1999	3.26	JAN 12, 2000	4.08	APR 19, 2000	3.45	JUL 20, 2000	3.71
NOV 12	3.28	FEB 17	4.55	MAY 12	2.63	AUG 17	3.80
DEC 13	3.83	MAR 16	3.46	JUN 26	3.02	SEP 13	3.35
WATER YEAR 2000 HIGHEST		2.63	MAY 12, 2000	LOWEST		4.55	FEB 17, 2000

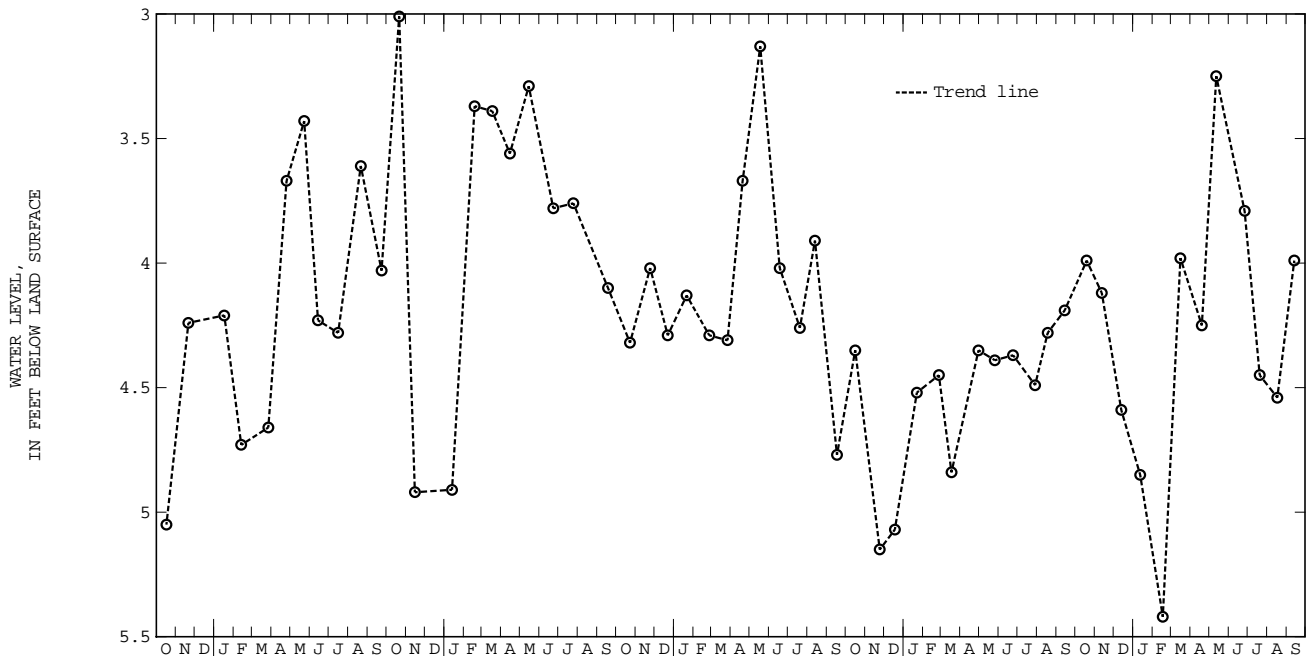


KENT COUNTY--Continued

WELL NUMBER.--KE Dc 91. SITE ID.--390626076083302. PERMIT NUMBER.--KE-88-0247.
 LOCATION.--Lat 39°06'26", long 76°08'33", Hydrologic Unit 02060002, 1.0 mi south of Cliffs City, at Cliffs Wharf.
 Owner: Maryland Geological Survey.
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 155 ft; casing diameter 4 in., to 140 ft, and 150 to 155 ft; screen diameter 4 in. from 140 to 150 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from February 1992 to October 1993.
 DATUM.--Elevation of land surface is 7.14 ft above sea level.
 Measuring Point: Top of metal sleeve, 2.46 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well.
 PERIOD OF RECORD.--October 1991 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.01 ft below land surface, Oct. 21, 1996;
 lowest measured, 5.81 ft below land surface, Dec. 13, 1994.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 1999	3.99	JAN 12, 2000	4.85	APR 19, 2000	4.25	JUL 20, 2000	4.45
NOV 12	4.12	FEB 17	5.42	MAY 12	3.25	AUG 17	4.54
DEC 13	4.59	MAR 16	3.98	JUN 26	3.79	SEP 13	3.99
WATER YEAR 2000 HIGHEST		3.25	MAY 12, 2000 LOWEST		5.42	FEB 17, 2000	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

MONTGOMERY COUNTY

WELL NUMBER.--MO Cb 26. SITE ID.--391142077280601. PERMIT NUMBER.--MO-72-0191.

LOCATION.--Lat 39°11'42", long 77°28'06", Hydrologic Unit 02070008, 2 mi southwest of Dickerson, at Dickerson Regional Park.

Owner: U.S. Geological Survey.

AQUIFER.--Manassas Sandstone, Poolsville Member of Upper Triassic age. Aquifer code: 231MNSS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 885 ft; casing diameter 6 in., to 40 ft; open hole.

INSTRUMENTATION.--Monthly measurements with electric steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 220 ft above sea level.

Measuring point: Top of casing 8.60 ft above land surface.

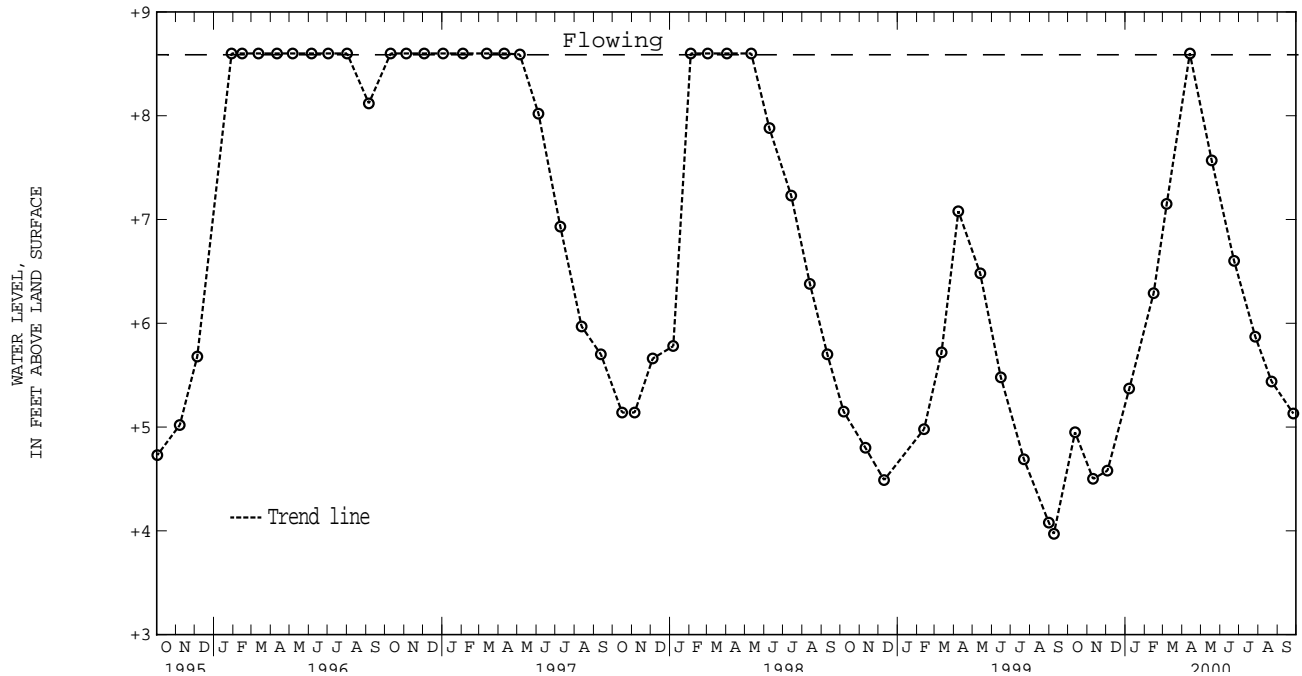
REMARKS.--Maryland Water-Level Network observation well,

PERIOD OF RECORD.--February 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, flowing on Jan. 3, 1991, April 3, 1991, April 5, 1993, May 3, 1993, March 7, 1994, April 5, 1994, May 10, 1994, Jan. 29, 1996, Feb. 15, 1996, March 12, 1996, April 11, 1996, May 6, 1996, June 5, 1996, July 2, 1996, Aug. 1, 1996, Oct. 10, 1996, Nov. 4, 1996, Dec. 3, 1996, Jan. 2, 1997, Feb. 3, 1997, March 13, 1997, April 10, 1997, Feb. 3, 1998, March 2, 1998, April 2, 1998, May 11, 1998, and April 13, 2000; lowest measured, 3.97 ft above land surface, Sept. 8, 1999.

WATER LEVELS, IN FEET ABOVE LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
(READINGS ABOVE LAND SURFACE INDICATED BY "+")

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 12, 1999	+4.95	JAN 07, 2000	+5.37	APR 13, 2000	Flowing	JUL 27, 2000	+5.87
NOV 10	+4.50	FEB 15	+6.29	MAY 18	+7.57	AUG 22	+5.44
DEC 03	+4.58	MAR 07	+7.15	JUN 23	+6.60	SEP 26	+5.13
WATER YEAR 2000 HIGHEST +7.57		MAY 18, 2000		LOWEST +4.50		NOV 10, 1999	



GROUND-WATER LEVELS IN MARYLAND--Continued

MONTGOMERY COUNTY--Continued

WELL NUMBER.--MO Cc 14. SITE ID.--391314077224201.

LOCATION.--Lat 39°13'14", long 77°22'42", Hydrologic Unit 02070008, at Barnesville.

Owner: Shirley Hayes.

AQUIFER.--Ijamsville Formation of Paleozoic age. Aquifer code: 300IJMV.

WELL CHARACTERISTICS.--Dug, stone-lined, unused, water-table well, depth 46 ft; casing diameter 60 to 24 in.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 560 ft above sea level, from topographic map.

Measuring point: Top of wooden well cover, 3.00 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

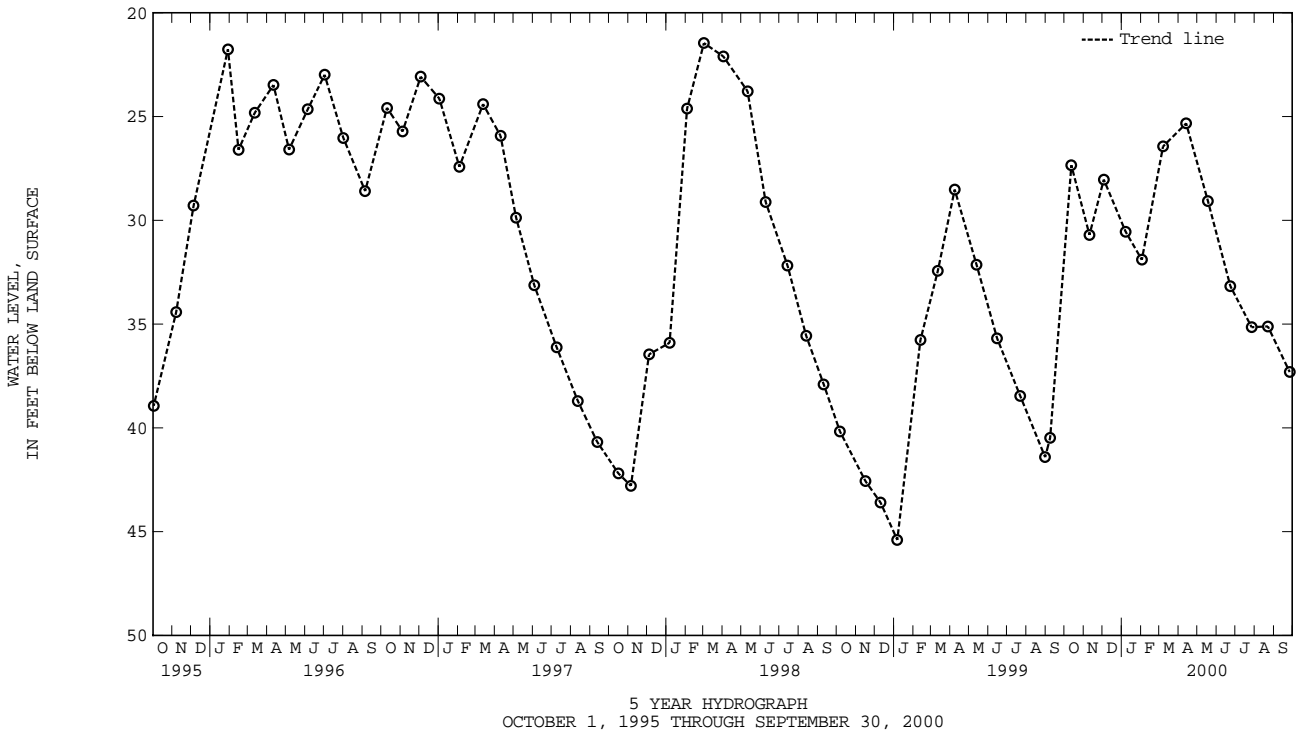
PERIOD OF RECORD.--November 1952 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.00 ft below land surface, April 5, 1993;

lowest measured, dry, on Dec. 2, 1957, Dec. 7, 1964, Dec. 6, 1965, Jan. 3, 1966, Feb. 2, 1966.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 12, 1999	27.35	JAN 07, 2000	30.55	APR 13, 2000	25.33	JUL 27, 2000	35.15
NOV 10	30.70	FEB 02	31.90	MAY 18	29.08	AUG 22	35.11
DEC 03	28.04	MAR 07	26.44	JUN 23	33.18	SEP 26	37.31
WATER YEAR 2000 HIGHEST 25.33		APR 13, 2000		LOWEST 37.31		SEP 26, 2000	



MONTGOMERY COUNTY --Continued

WELL NUMBER.--MO Db 68. SITE ID.--390802077283801. PERMIT NUMBER.--MO-73-1869.

LOCATION.--Lat 39°08'02", long 77°28'38", Hydrologic Unit 0207008, south of Club Hollow Road, at the National Institutes of Health, Animal Center.

Owner: U.S. Geological Survey.

AQUIFER.--Balls Bluff Siltstone of Upper Triassic age. Aquifer code: 231BLBF.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 250 ft; casing diameter 6 in., to 40 ft; open hole.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--15-minute recorder interval from December 24, 1998 to current year.

DATUM.--Altitude of land surface is 260 ft above sea level, from topographic map.

Measuring Point: Top of casing, 0.80 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.

Missing data due to recorder malfunction.

PERIOD OF RECORD.--May 1978 to August 1980, June 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.12 ft below land surface, May 12, 1989;
lowest measured, 41.76 ft below land surface, Sept. 9, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH					
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	33.89	23.57	32.97	21.09	32.04	21.30	30.83	20.84	33.15	22.80	31.42	20.70				
2	32.42	23.22	36.19	24.41	32.49	21.26	30.84	20.62	33.45	23.09	31.64	20.64				
3	30.90	22.31	34.56	24.03	31.23	21.34	31.72	20.52	33.15	22.93	31.85	20.76				
4	33.14	21.82	34.21	22.65	31.66	21.46	31.40	20.63	32.96	22.87	30.23	20.75				
5	32.94	22.29	34.83	22.30	31.08	21.42	33.14	20.92	30.76	22.31	28.73	20.56				
6	32.73	22.30	32.45	22.42	31.67	20.90	33.47	21.42	32.01	22.58	31.49	20.27				
7	33.39	22.01	31.55	21.67	32.21	21.06	33.15	21.58	33.69	22.66	31.13	20.78				
8	32.43	22.31	33.86	21.35	32.49	21.98	30.09	21.39	33.91	23.41	32.10	20.83				
9	30.62	21.97	34.03	22.43	32.18	21.83	29.53	20.66	33.35	22.88	32.93	20.82				
10	31.84	21.38	34.38	22.64	31.96	21.25	27.39	19.25	32.75	21.65	31.97	21.48				
11	---	---	32.57	22.48	29.66	21.36	32.67	21.56	32.80	21.65	32.51	21.26				
12	---	---	33.71	21.95	29.54	20.73	32.53	22.10	31.54	21.75	32.82	21.93				
13	32.91	21.93	33.83	23.27	30.96	20.47	31.95	21.33	31.77	21.31	32.21	21.31				
14	33.00	21.87	31.72	22.33	31.46	20.63	32.29	21.74	31.82	20.98	31.97	21.58				
15	32.64	21.85	33.68	21.93	31.10	20.35	31.14	21.54	31.84	21.09	31.85	21.00				
16	30.38	21.77	33.75	22.08	31.17	20.17	30.77	20.93	31.92	21.39	32.17	21.71				
17	30.68	21.07	34.25	22.44	31.35	20.25	30.75	20.98	31.73	21.13	32.27	21.38				
18	32.74	20.99	33.50	22.69	30.02	20.27	31.37	20.76	31.84	20.84	30.24	21.63				
19	33.42	21.67	32.88	22.44	30.29	20.19	32.14	20.94	28.76	20.32	29.80	21.23				
20	32.75	21.72	31.05	21.90	31.01	20.13	32.18	21.24	29.49	20.00	32.50	20.75				
21	33.27	21.46	31.52	21.41	31.06	20.21	33.22	22.21	28.06	19.97	31.82	21.32				
22	32.50	21.58	32.29	21.35	31.03	20.27	31.91	22.14	31.10	19.82	31.87	20.66				
23	32.42	21.83	32.72	21.56	31.16	20.49	31.33	21.98	31.31	20.11	31.31	20.46				
24	32.05	22.05	32.67	21.54	29.96	20.35	33.61	21.57	30.13	20.08	31.78	20.23				
25	32.21	21.38	31.35	21.56	29.55	20.36	32.13	21.69	31.87	20.20	30.57	20.25				
26	32.75	21.97	31.52	21.41	28.63	20.22	32.29	21.43	31.56	21.31	29.78	20.16				
27	33.37	22.70	29.67	21.37	31.30	20.09	33.36	21.57	31.44	21.41	29.81	19.65				
28	33.15	22.02	29.63	20.87	31.88	20.62	33.59	22.13	31.76	21.15	30.82	19.63				
29	32.96	21.92	31.84	20.74	32.40	21.58	32.43	22.09	31.58	20.73	29.23	19.86				
30	30.88	22.02	31.92	21.11	32.67	20.97	32.09	21.80	---	---	30.83	20.13				
31	30.24	21.44	---	---	31.17	21.16	33.08	21.37	---	---	29.97	20.33				
MONTH	33.89	20.99	36.19	20.74	32.67	20.09	33.61	19.25	33.91	19.82	32.93	19.63				

GROUND-WATER LEVELS IN MARYLAND--Continued

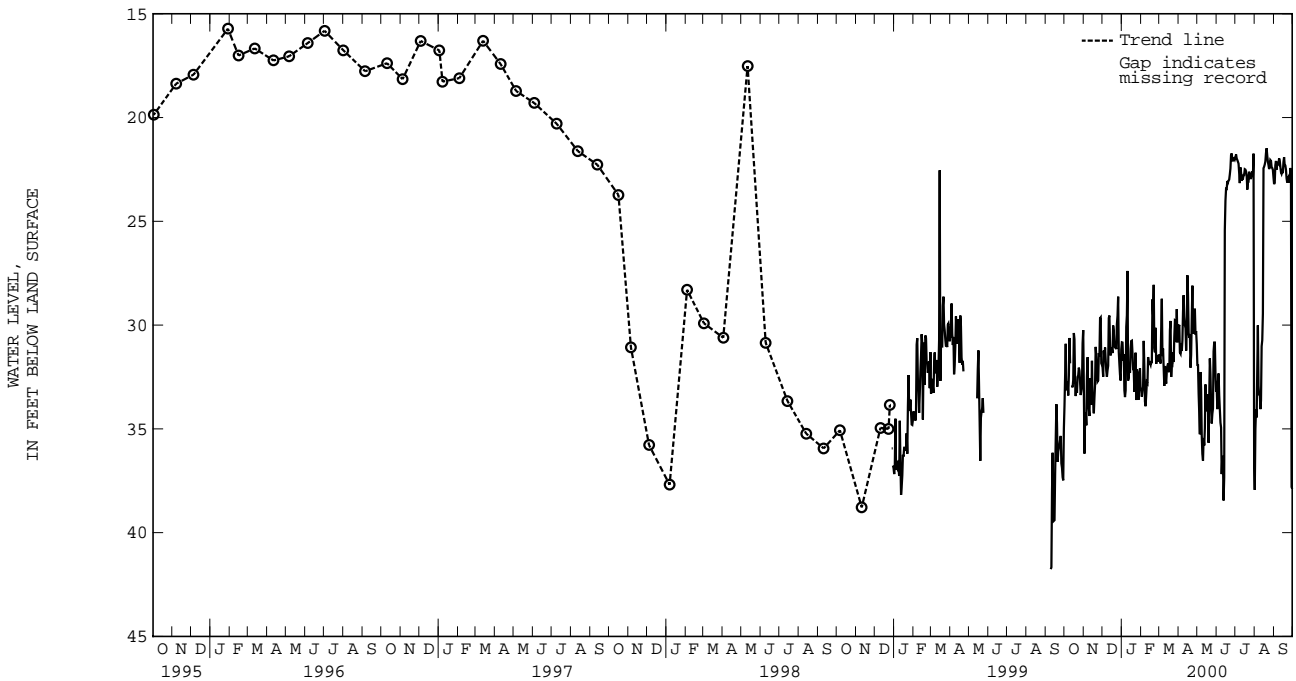
MONTGOMERY COUNTY --Continued

MO Db 68--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	30.10	20.94	31.92	21.31	33.05	22.82	21.92	21.18	37.94	25.77	23.21	22.35
2	29.99	20.86	31.93	21.48	34.05	22.82	21.78	21.05	35.00	24.86	23.13	22.13
3	31.32	20.42	33.30	21.70	32.74	23.15	21.97	21.09	34.07	24.17	22.30	21.66
4	31.38	21.33	34.22	22.14	32.33	22.96	22.04	21.17	34.45	23.95	22.09	21.48
5	30.90	20.77	35.26	24.65	33.38	22.66	22.13	21.19	32.17	22.92	22.51	21.53
6	31.25	20.38	32.26	22.84	34.05	23.04	22.22	21.36	30.01	22.35	22.18	21.48
7	30.74	20.25	33.06	23.96	34.70	23.67	22.67	21.55	32.93	22.15	22.19	21.48
8	29.34	20.59	35.32	24.96	34.94	23.78	23.16	22.17	33.38	22.84	22.23	21.37
9	28.56	20.25	36.21	24.66	37.18	24.75	22.40	21.84	33.24	23.19	21.97	21.48
10	29.59	19.61	36.53	26.06	36.30	27.91	22.66	21.59	34.05	23.23	22.07	21.41
11	29.99	19.71	35.44	24.73	36.54	27.87	23.04	22.53	33.64	23.46	22.36	21.38
12	30.15	19.74	35.80	24.92	38.45	27.81	22.97	22.10	31.02	23.11	22.63	21.75
13	31.23	20.05	34.96	25.69	37.35	25.43	22.96	22.05	30.73	22.64	22.71	21.94
14	30.27	20.01	32.86	23.49	25.43	24.01	22.77	21.85	29.45	22.10	22.60	21.89
15	27.60	19.69	34.11	22.85	24.01	23.37	22.77	21.88	22.44	21.86	22.68	21.99
16	28.53	19.22	34.09	23.25	23.43	22.65	22.49	21.80	22.37	21.70	22.15	21.50
17	30.37	19.98	33.34	22.98	23.44	22.77	22.51	21.60	22.26	21.53	21.91	21.39
18	30.60	20.18	33.92	22.97	23.06	22.40	22.59	21.62	22.11	21.38	22.29	21.23
19	30.45	20.25	35.67	24.87	23.13	22.18	22.75	22.03	21.71	21.09	22.31	21.53
20	32.05	20.53	33.40	23.11	23.04	22.40	23.47	21.95	21.48	20.82	22.52	21.73
21	31.44	20.53	31.61	22.86	22.99	22.11	23.09	22.61	21.83	20.79	22.93	22.08
22	29.63	19.88	32.38	22.31	22.74	21.97	23.09	22.13	22.13	21.09	23.13	22.24
23	28.10	19.53	33.87	22.29	22.45	21.38	22.61	21.97	22.29	21.42	22.93	22.38
24	30.27	19.42	34.74	23.12	21.81	21.11	22.76	21.84	22.48	21.60	22.87	22.22
25	30.42	20.11	34.27	24.10	21.73	21.04	22.92	22.08	22.40	21.67	23.13	22.24
26	30.10	20.08	34.02	23.60	22.00	21.29	22.92	22.07	22.05	21.56	23.06	22.43
27	29.21	20.18	31.27	22.82	22.11	21.20	22.76	21.94	22.09	21.43	22.43	21.91
28	30.46	20.21	30.84	22.31	21.96	21.22	22.60	21.87	22.40	21.31	22.62	21.74
29	30.29	20.72	30.84	21.98	21.95	21.19	22.82	21.74	22.43	21.71	37.80	22.62
30	30.92	22.40	32.30	21.93	22.02	21.17	21.74	20.28	22.52	21.76	37.89	22.86
31	---	---	33.21	22.53	---	---	36.65	20.06	22.88	21.98	---	---
MONTH	32.05	19.22	36.53	21.31	38.45	21.04	36.65	20.06	37.94	20.79	37.89	21.23
YEAR	38.45	19.22										

Daily Low Water Levels



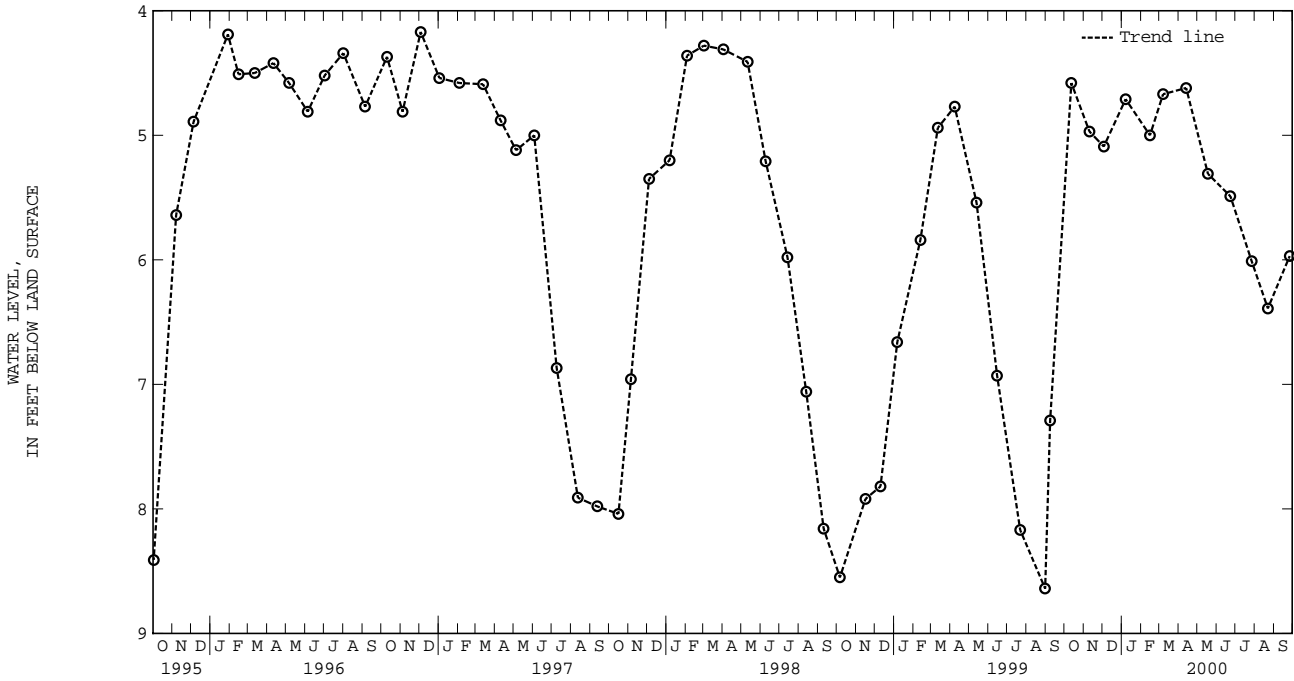
5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

MONTGOMERY COUNTY--Continued

WELL NUMBER.--MO Dc 59. SITE ID.--390917077244401. PERMIT NUMBER.--MO-73-1896.
 LOCATION.--Lat 39°09'17", long 77°24'44", Hydrologic Unit 02070008, 1 mi north of Poolesville, near Jerusalem Road.
 Owner: U.S. Geological Survey.
 AQUIFER.--Manasses Sandstone, Poolesville Member of Upper Triassic age. Aquifer code: 231MNSS.
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 262 ft; casing diameter 6 in., to 42 ft; open hole.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 370 ft above sea level.
 Measuring point: Top of recorder platform, 3.94 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well,
 PERIOD OF RECORD.--June 1990 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.10 ft below land surface, March 7, 1994;
 lowest measured, 10.70 ft below land surface, Sept. 8, 1993.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 12, 1999	4.58	JAN 07, 2000	4.71	APR 13, 2000	4.62	JUL 27, 2000	6.01
NOV 10	4.97	FEB 15	5.00	MAY 18	5.31	AUG 22	6.39
DEC 03	5.09	MAR 07	4.67	JUN 23	5.49	SEP 26	5.97
WATER YEAR 2000 HIGHEST		4.58	OCT 12, 1999	LOWEST		6.39	AUG 22, 2000



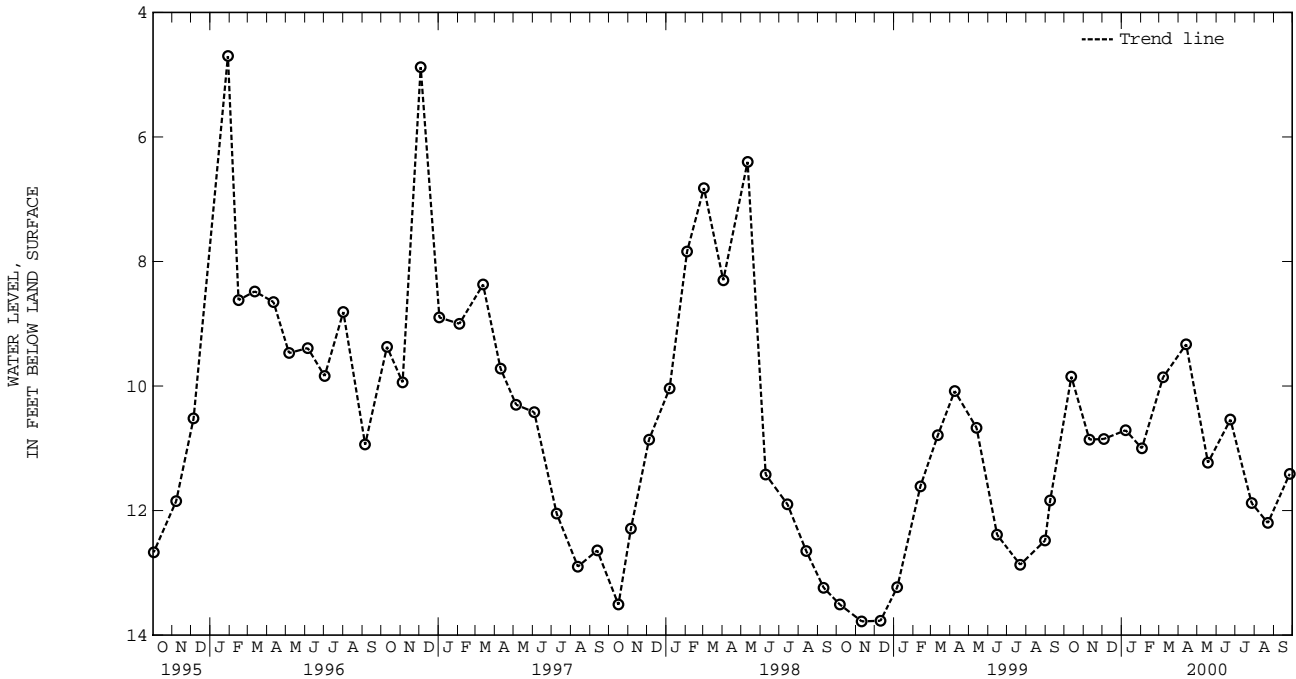
GROUND-WATER LEVELS IN MARYLAND--Continued

MONTGOMERY COUNTY--Continued

WELL NUMBER.--MO Ec 10. SITE ID.--390451077245901. PERMIT NUMBER.--MO-73-2833.
 LOCATION.--Lat 39°04'51", long 77°24'59", Hydrologic Unit 02070008, 3 mi southeast of Poolesville nr Sycamore Landing Road at McKee Beshler Wildlife Management Area.
 Owner: U.S. Geological Survey.
 AQUIFER.--Balls Bluff Siltstone of Upper Triassic age. Aquifer code: 231BLBF.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 857.5 ft; casing diameter 8 in., to 26 ft; open hole.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 200 ft above sea level.
 Measuring point: Top of casing, 1.70 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well,
 PERIOD OF RECORD.--August 1990 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.70 ft below land surface, Jan. 29, 1996.
 lowest measured, 14.52 ft below land surface, July 8, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 12, 1999	9.85	JAN 07, 2000	10.71	APR 13, 2000	9.33	JUL 27, 2000	11.88
NOV 10	10.86	FEB 02	11.00	MAY 18	11.23	AUG 22	12.20
DEC 03	10.85	MAR 07	9.86	JUN 23	10.54	SEP 26	11.41
WATER YEAR 2000 HIGHEST		9.33	APR 13, 2000	LOWEST		12.20	AUG 22, 2000



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

MONTGOMERY COUNTY--Continued

WELL NUMBER.--MO Eh 20. SITE ID.--390434076573002.

LOCATION.--Lat 39°04'34", long 76°57'30", Hydrologic Unit 02070010, at MD Rt. 196 and Fairland Rd., Fairland.

Owner: Cities Service Oil Co.

AQUIFER.--Loch Raven Formation of Cambrianage. Aquifer code: 370LCRV.

WELL CHARACTERISTICS.--Drilled, unused, water-table well, depth 102.9 ft; casing diameter 6 in., to 50 ft; open hole.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 410 ft above sea level, from topographic map.

Measuring point: Top of casing at land-surface datum.

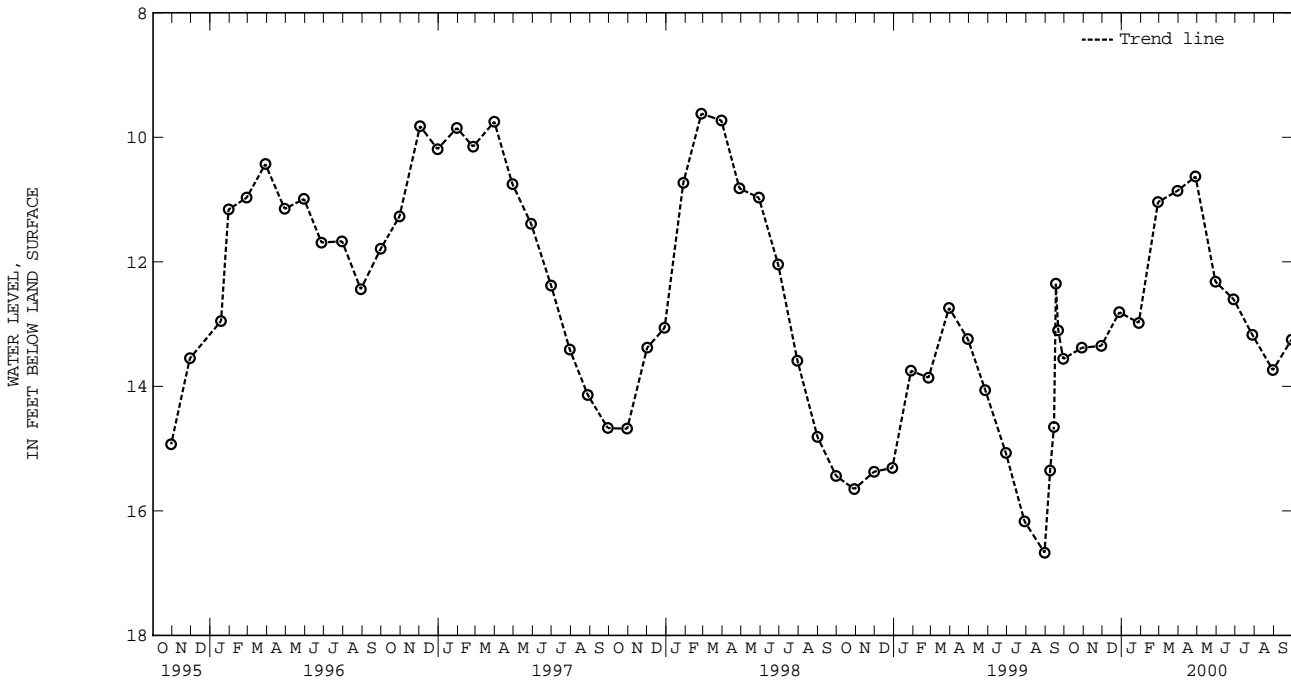
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--March 1955 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.39 ft below land surface, June 25, 1972;
lowest measured, 16.67 ft below land surface, Aug. 30, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29, 1999	13.38	JAN 28, 2000	12.98	APR 28, 2000	10.63	JUL 28, 2000	13.17
NOV 29	13.35	FEB 28	11.04	MAY 30	12.32	AUG 30	13.74
DEC 28	12.81	MAR 30	10.86	JUN 28	12.60	SEP 29	13.25
WATER YEAR 2000 HIGHEST		10.63	APR 28, 2000		LOWEST		13.74
							AUG 30, 2000



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

PRINCE GEORGES COUNTY

WELL NUMBER.--PG Bc 16. SITE ID.--390151076561501.

LOCATION.--Lat 39°01'51", long 76°56'15", Hydrologic Unit 02070010, at National Agricultural Research Center, Beltsville.

Owner: U.S. Department of Agriculture.

AQUIFER.--Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.

WELL CHARACTERISTICS.--Dug brick-lined, unused, water-table well, measured depth 27.4 ft; casing diameter 40 in.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with water-level recorder from Oct. 31, 1962 to Feb. 9, 1965.

DATUM.--Elevation of land surface is 190 ft above sea level, from topographic map.

Measuring point: Top of steel cover, 0.10 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--September 1962 to current year.

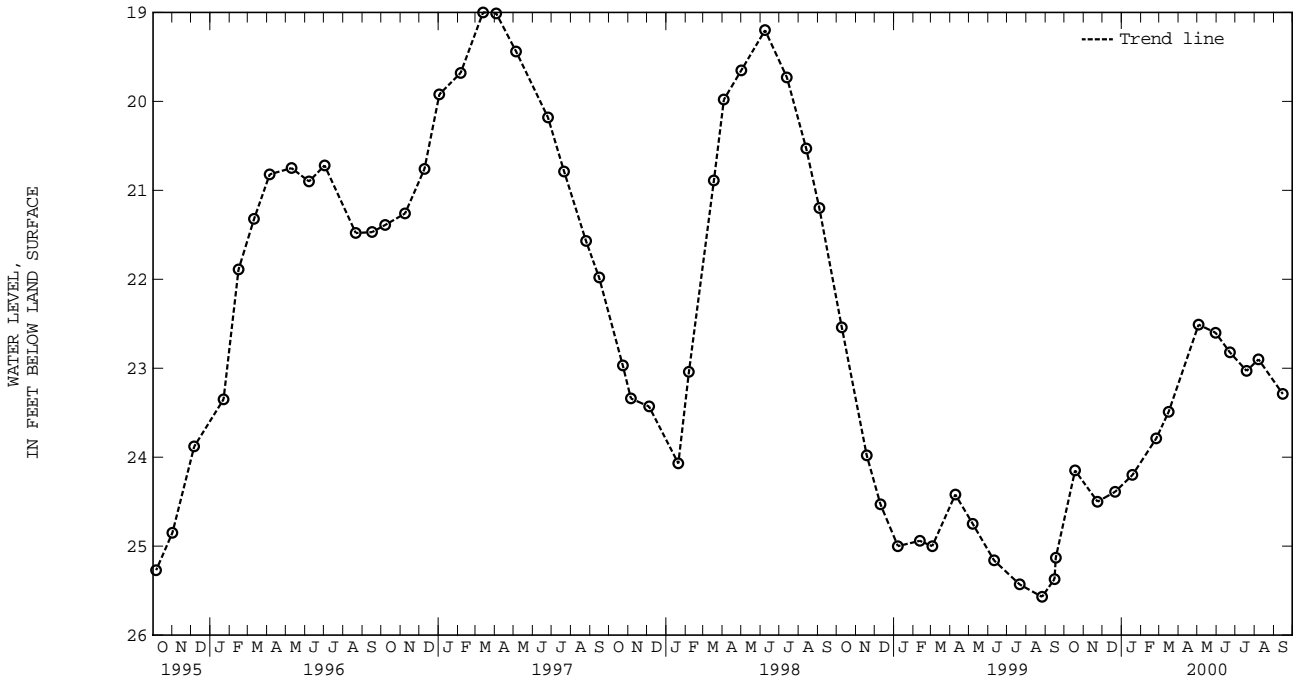
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.26 ft below land surface, July 6, 1972;

lowest measured, 26.46 ft below land surface, July 8, 1981.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 1999	24.15	JAN 18, 2000	24.20	MAY 03, 2000	22.51	JUL 19, 2000	23.03
NOV 23	24.50	FEB 25	23.79	30	22.60	AUG 07	22.90
DEC 21	24.39	MAR 16	23.49	JUN 22	22.82	SEP 15	23.29

WATER YEAR 2000 HIGHEST 22.51 MAY 03, 2000 LOWEST 24.50 NOV 23, 1999



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

PRINCE GEORGES COUNTY--Continued

WELL NUMBER.--PG Df 2. SITE ID.--385152076431301.

LOCATION.--Lat 38°51'52", long 76°43'13", Hydrologic Unit 02060006, near Leeland.

Owner: A. R. Rogers.

AQUIFER.--Nanjemoy Formation of Lower Eocene age. Aquifer code: 124NNJM.

WELL CHARACTERISTICS.--Dug, unused, artesian well, depth 81.5 ft; diameter of concrete-ring lining 48 in.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 145 ft above sea level, from topographic map.

Measuring point: Edge of steel cover, 3.00 ft below land surface.

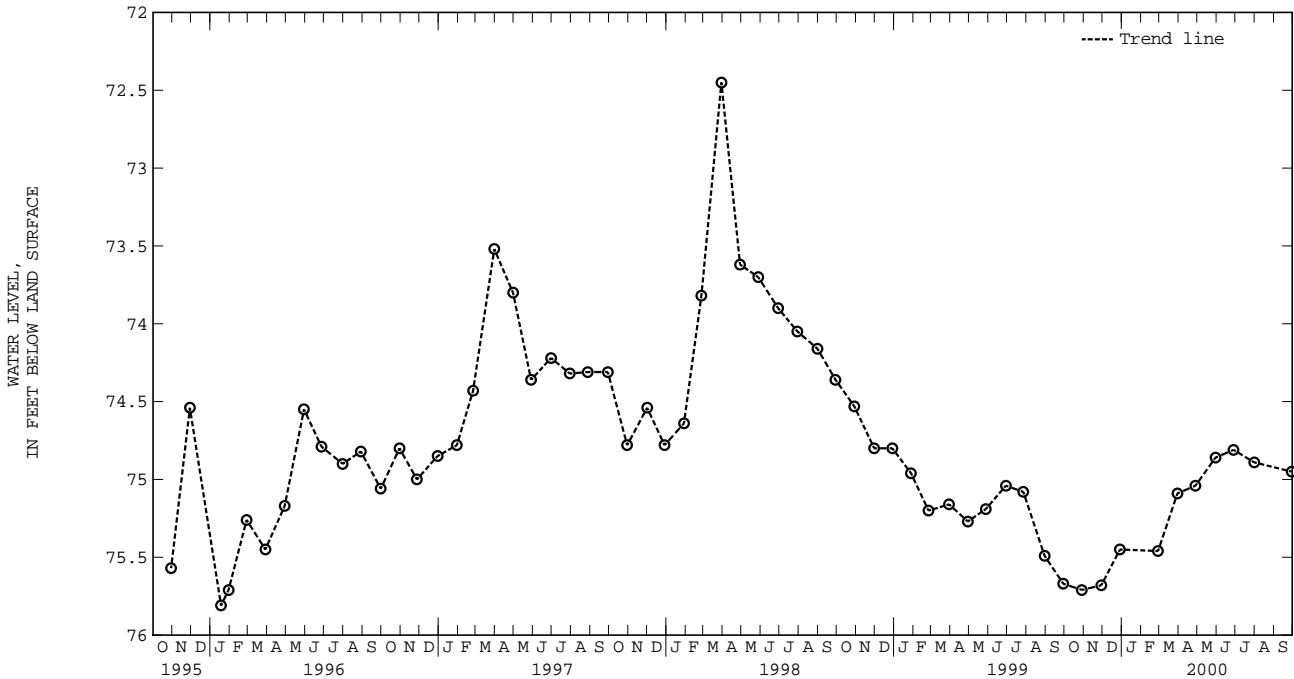
REMARKS.--Maryland Water-Level Network observation well. Water level rise in summer of 1990 to 67.78 ft. below land surface was due to leaking water storage tank above well.

PERIOD OF RECORD.--November 1948 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 67.78 ft below land surface, Sept. 7, 1990, (See Remarks); lowest measured, 75.96 ft below land surface, Nov. 19, 1951.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29, 1999	75.71	FEB 28, 2000	75.46	MAY 30, 2000	74.86	SEP 29, 2000	74.95
NOV 29	75.68	MAR 30	75.09	JUN 28	74.81		
DEC 29	75.45	APR 28	75.04	JUL 31	74.89		
WATER YEAR 2000 HIGHEST 74.81 JUN 28, 2000		LOWEST 75.71 OCT 29, 1999					



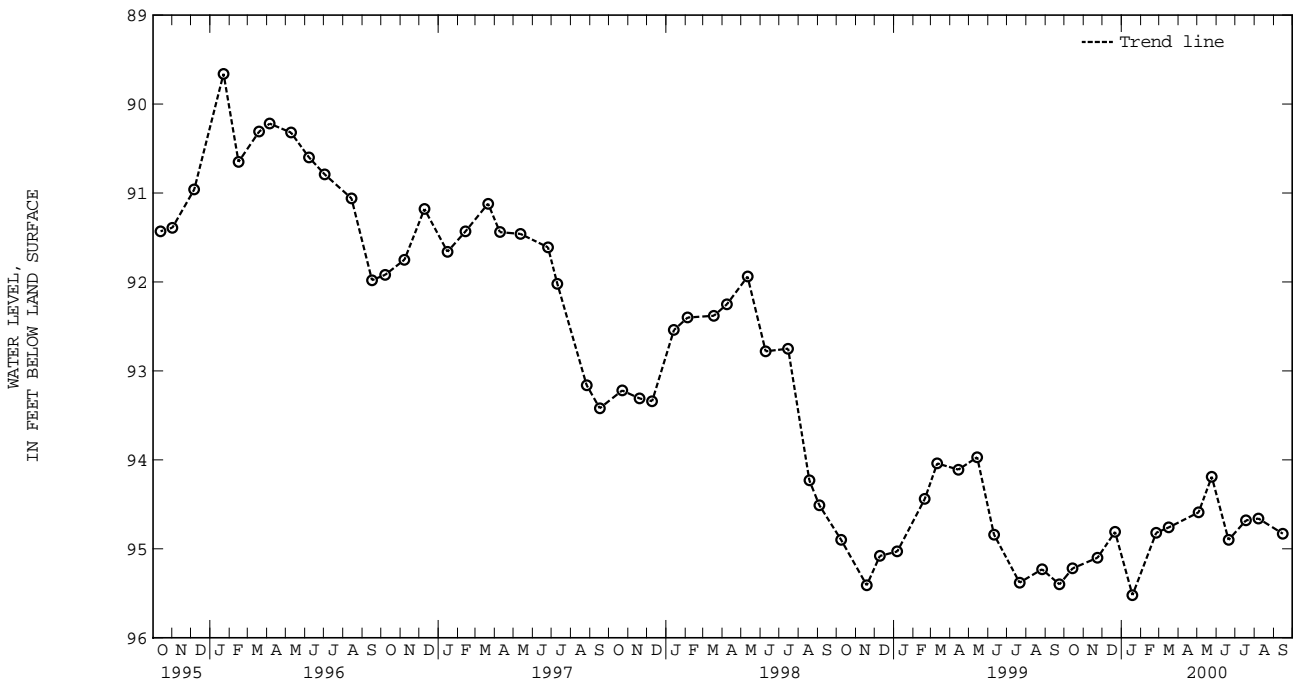
5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

PRINCE GEORGES COUNTY--Continued

WELL NUMBER.--PG Fb 36. SITE ID.--384423077004501. PERMIT NUMBER.--PG-02-4834.
 LOCATION.--Lat 38°44'23", long 77°00'45", Hydrologic Unit 02070010, at Broadwater Estates.
 Owner: Broadwater Citizens Association.
 AQUIFER.--Upper Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.
 WELL CHARACTERISTICS.--Drilled, unused, artesian well, depth 284 ft; casing diameter 8 in., to 271.5 ft;
 screen diameter 8 in. from 267.5 to 284 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 78 ft above sea level, from topographic map.
 Measuring point: Top of casing, 3.50 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water
 withdrawal. Highest water level reported, 62 ft below land surface, May 29, 1957;
 PERIOD OF RECORD.--July 1961, March 1962 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 68.99 ft below land surface, Oct. 3, 1979;
 lowest measured, 95.52 ft below land surface, Jan. 18, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14, 1999	95.22	JAN 18, 2000	95.52	MAY 03, 2000	94.59	JUL 18, 2000	94.68
NOV 23	95.10	FEB 25	94.82	24	94.19	AUG 07	94.66
DEC 21	94.81	MAR 16	94.76	JUN 20	94.90	SEP 15	94.83
WATER YEAR 2000 HIGHEST 94.19		MAY 24, 2000		LOWEST 95.52		JAN 18, 2000	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

PRINCE GEORGES COUNTY--Continued

WELL NUMBER.--PG Fc 17. SITE ID.--384230076555501.

LOCATION.--Lat 38°42'30", long 76°55'55", Hydrologic Unit 02070010, 75 ft south of Floral Park Rd., 3 mi west of the intersection with MD Rt. 5, Piscataway.

Owner: Potomac Edison Power Company, formerly Washington Gas Light Co.

AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 750 ft; casing diameter 6 in.; casing perforated from 712 to 716 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with water-level recorder from Oct. 27, 1955 to Sept. 4, 1956.

DATUM.--Elevation of land surface is 58.6 ft above sea level.

Measuring point: Top of casing, 0.50 ft above land surface.

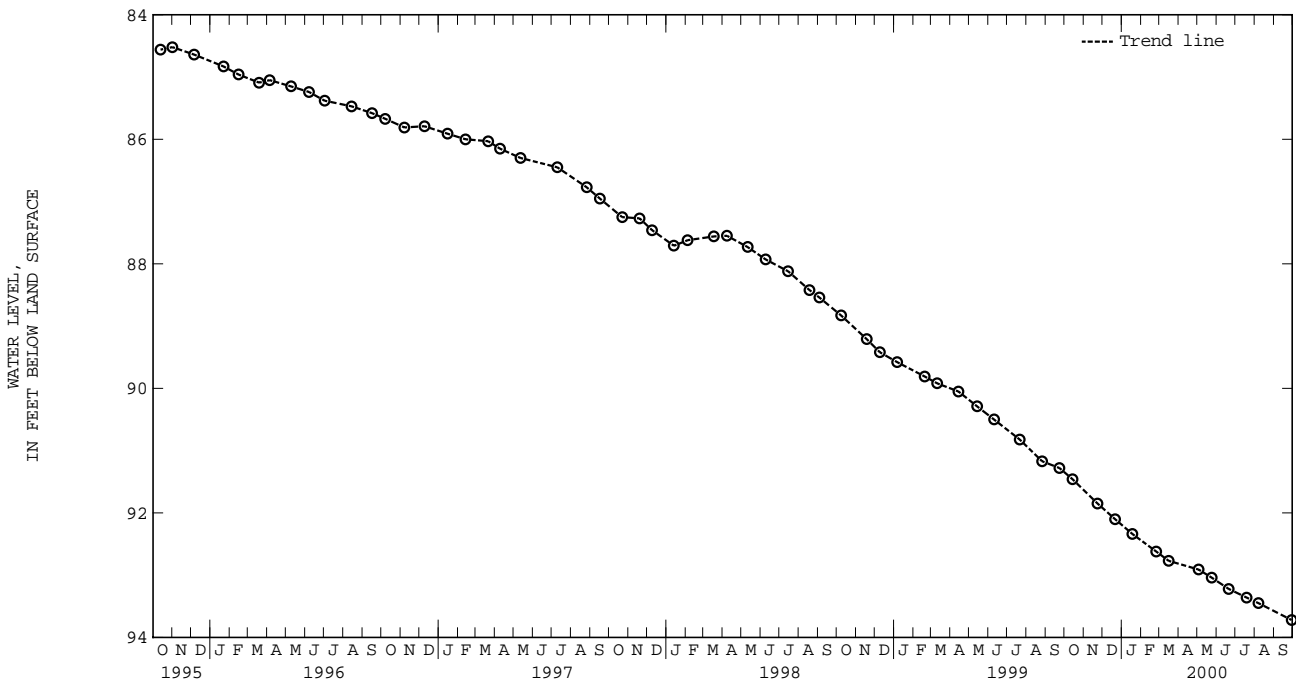
REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by regional ground-water withdrawal.

PERIOD OF RECORD.--October 1955 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.62 ft below land surface, Oct. 27, 1955; lowest measured, 93.72 ft below land surface, Sept. 29, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14, 1999	91.46	JAN 18, 2000	92.34	MAY 03, 2000	92.91	JUL 19, 2000	93.36
NOV 23	91.85	FEB 25	92.62	24	93.04	AUG 07	93.45
DEC 21	92.10	MAR 16	92.77	JUN 20	93.22	SEP 29	93.72
WATER YEAR 2000 HIGHEST 91.46 OCT 14, 1999		LOWEST 93.72		SEP 29, 2000			



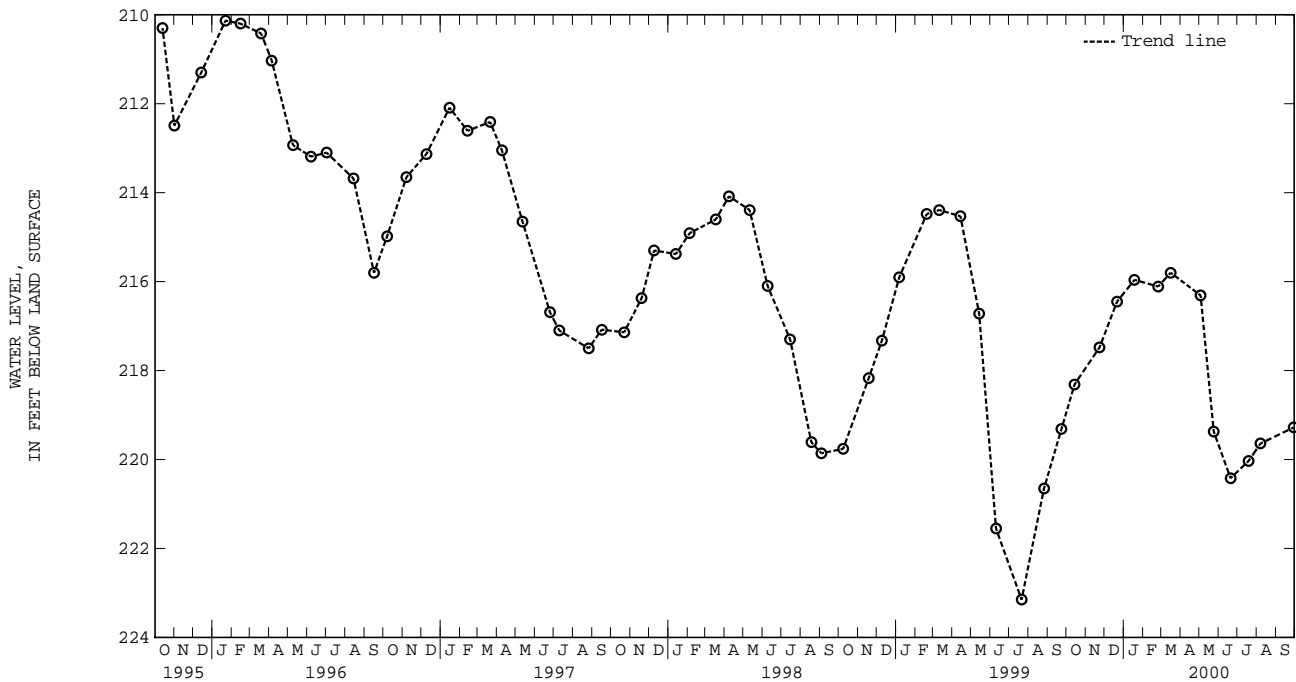
5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

PRINCE GEORGES COUNTY--Continued

WELL NUMBER.--PG Fd 41. SITE ID.--384131076533301. PERMIT NUMBER.--PG-01-8058.
 LOCATION.--Lat 38°41'31", long. 76°53'33", Hydrologic Unit 02070010, south side of MD Rt. 373, 1.14 mi west of intersection with MD Rt. 5, near T.B.
 Owner: Colonial Investment Corp.
 AQUIFER.--Magothy Formation of Upper Cretaceous age. Aquifer code: 211MGTY.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 362 ft; casing diameter 4 in., to 352 ft; screen diameter 2.5 in. from 352 to 362 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 196.92 ft above sea level.
 Measuring point: Top of casing, 2.80 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water level reported 146 ft below land surface, March 11, 1955. Water levels are affected by local and regional ground-water withdrawal.
 PERIOD OF RECORD.--May 1967 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 157.24 ft below land surface, March 4, 1968; lowest measured, 223.15 ft below land surface, July 21, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14, 1999	218.31	JAN 18, 2000	215.96	MAY 03, 2000	216.31	JUL 19, 2000	220.03
NOV 23	217.48	FEB 25	216.11	24	219.37	AUG 07	219.64
DEC 21	216.45	MAR 16	215.80	JUN 20	220.42	SEP 29	219.28
WATER YEAR 2000 HIGHEST 215.80 MAR 16, 2000		LOWEST 220.42 JUN 20, 2000					



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

PRINCE GEORGES COUNTY--Continued

WELL NUMBER.--PG Gd 5. SITE ID.--383957076520601. PERMIT NUMBER.--PG-88-2866.

LOCATION.--Lat 38°39'57", long 76°52'06", Hydrologic Unit 02070011, nr northeast corner of intersection with US Rt. 301 and Cedarville Rd., 4 mi northeast of Waldorf.

Owner: PANDA Brandywine Power Station.

AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.

WELL CHARACTERISTICS.--Drilled, production, artesian well, depth 1,350 ft; casing diameter 10 in., to 800 ft; casing diameter 8 in. from 800 to 948 ft, 1,028 to 1,155 ft, 1,170 to 1,188 ft, 1,208 to 1,240 ft, and 1,290 to 1,305 ft; screen diameter 8 in. from 948 to 1,028 ft, 1,155 to 1,170 ft, 1,188 to 1,208 ft, 1,240 to 1,290 ft and 1,305 to 1,350 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--30-minute recorder interval from Dec. 10, 1994 to April 24, 1995, Nov. 7, 1996 to Feb. 27, 1997, and Oct. 8, 1997 to current year.

DATUM.--Altitude of land surface is 216.43 ft above sea level.

Measuring Point: Top of casing, 2.65 ft above land surface.

REMARKS.--Southern Maryland Observation Well Network. Water levels are affected by local ground-water withdrawal.

Missing data due to recorder malfunction.

PERIOD OF RECORD.--September 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 63.40 ft below sea level, Nov. 5, 1998; lowest measured, 174.10 ft below sea level, May 16, 2000.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-68.90	-79.00	-76.30	-78.90	-77.50	-166.30	---	---	-77.60	-172.80	-78.30	-80.70
2	-72.60	-78.90	-74.60	-87.70	-78.50	-81.80	-77.00	-81.00	-78.10	-83.60	-77.40	-91.10
3	-75.80	-89.20	-75.80	-80.10	-73.50	-82.20	-78.10	-79.90	-79.20	-165.20	-79.20	-91.60
4	-73.50	-76.70	-75.90	-90.80	-75.10	-82.60	-78.10	-79.90	-77.80	-81.20	-78.40	-81.00
5	-69.60	-79.90	-75.90	-81.60	-80.40	-166.70	-76.50	-92.20	-77.20	-81.10	-78.40	-93.50
6	-69.60	-90.50	-78.30	-81.10	-81.00	-86.40	-76.20	-80.40	-75.80	-166.10	-77.00	-81.80
7	-77.50	-80.00	-77.40	-80.50	-79.20	-82.80	-75.50	-81.00	-74.50	-81.50	-78.20	-94.40
8	-74.40	-89.70	-78.20	-90.70	-79.00	-165.50	-75.50	-80.30	-78.30	-80.80	-79.70	-82.70
9	-76.20	-78.30	-77.20	-81.10	-77.80	-81.80	-77.30	-79.70	-79.50	-165.80	-81.10	-93.90
10	-76.80	-77.80	-78.10	-91.40	-77.70	-165.60	-76.30	-78.90	-79.60	-82.20	-80.40	-82.90
11	-76.70	-81.20	-79.10	-93.00	-79.20	-81.30	-76.30	-89.30	-79.20	-80.80	-78.70	-81.30
12	-77.70	-92.10	-78.00	-91.20	-76.30	-81.80	-77.00	-79.30	-78.20	-81.80	-78.00	-93.80
13	-77.50	-79.90	-77.60	-80.50	-75.70	-79.30	-76.00	-79.50	-77.70	-166.40	-79.60	-82.20
14	-77.20	-91.50	-76.20	-80.60	-79.30	-165.90	-73.20	-78.90	-78.30	-81.10	-77.50	-81.40
15	-74.40	-81.40	-76.00	-79.20	-76.20	-80.00	-75.10	-88.70	-78.90	-90.50	-77.70	-81.40
16	-76.30	-90.00	-75.90	-79.60	-76.20	-79.90	-73.60	-80.00	-71.40	-82.20	-80.60	-167.10
17	-76.50	-80.00	-74.40	-88.90	-77.00	-165.50	-74.70	-167.10	-75.80	-82.70	-79.90	-81.90
18	-76.20	-79.30	-75.30	-80.10	-76.50	-82.40	-76.00	-167.10	-74.90	-79.00	-77.40	-81.00
19	-76.20	-90.50	-74.40	-91.00	-76.70	-80.10	-76.30	-166.60	-77.40	-90.70	-78.30	-80.60
20	-76.10	-78.30	-74.40	-79.70	-75.80	-78.90	-76.80	-166.90	-77.60	-80.40	-79.00	-167.50
21	-75.90	-80.60	-76.20	-81.30	-77.50	-79.30	-77.60	-166.50	-77.60	-80.40	-79.00	-79.90
22	-78.10	-89.60	-78.40	-81.20	-77.70	-91.10	-74.70	-79.60	-74.60	-81.20	-76.90	-154.60
23	-76.20	-79.70	-79.80	-166.40	-74.10	-79.90	-73.20	-166.20	-77.80	-92.50	-80.10	-167.40
24	-73.70	-78.30	-79.90	-82.90	-74.10	-77.80	-75.40	-81.20	-77.80	-82.00	-80.40	-82.90
25	-74.60	-79.70	-76.80	-80.50	-76.00	-79.90	-79.70	-172.90	-79.00	-82.10	-78.80	-94.30
26	-77.20	-90.00	-79.50	-166.30	-76.00	-91.80	-81.30	-172.00	-79.00	-82.20	-79.50	-81.20
27	-76.10	-81.10	-78.70	-81.50	-77.00	-80.30	-78.70	-166.70	-78.40	-79.90	-77.80	-81.80
28	-77.40	-89.90	-79.60	-81.90	-76.30	-80.30	-78.10	-166.90	-77.70	-90.70	-77.80	-91.40
29	-76.30	-91.90	-79.50	-81.80	-76.20	-91.10	-79.70	-166.40	-78.50	-81.80	-79.50	-81.40
30	-77.70	-81.80	-79.00	-166.90	-77.70	-91.10	-76.50	-165.20	---	---	-74.90	-82.00
31	-75.50	-81.00	---	---	-77.30	-81.20	-76.90	-82.00	---	---	-74.90	-91.10
MONTH	-68.90	-92.10	-74.40	-166.90	-73.50	-166.70	-73.20	-172.90	-71.40	-172.80	-74.90	-167.50

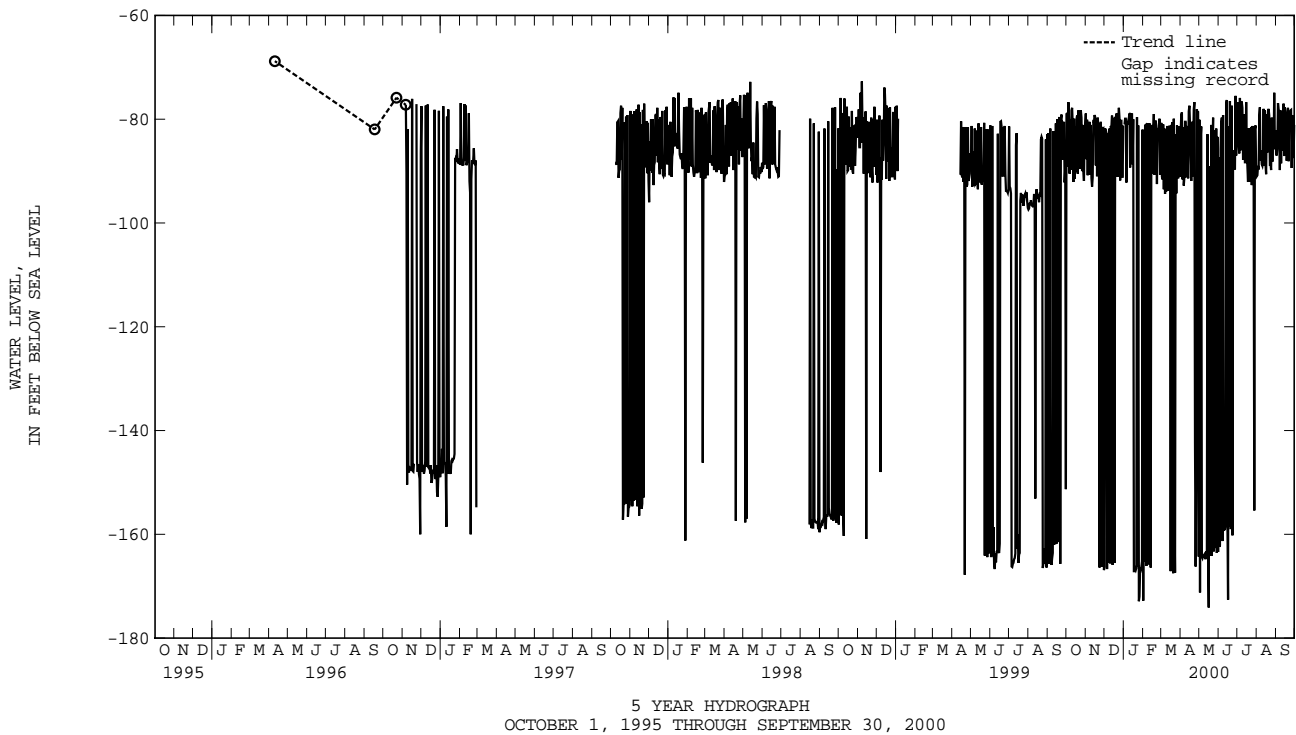
PRINCE GEORGES COUNTY--Continued

PG Gd 5--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-76.70	-82.40	-77.70	-80.10	-79.00	-87.30	-71.30	-77.20	-78.50	-91.00	-70.10	-86.70
2	-76.30	-79.10	-78.50	-171.20	-77.30	-162.40	-73.40	-76.80	-77.60	-90.80	-71.90	-87.00
3	-76.20	-78.70	-79.70	-83.90	-77.80	-162.10	-73.60	-85.20	-76.70	-89.00	-68.00	-85.70
4	-76.90	-91.60	-79.30	-81.40	-80.60	-85.70	-71.20	-86.60	-76.50	-89.70	-71.00	-76.90
5	-79.00	-81.50	-78.70	-164.30	-79.10	-80.80	-72.70	-75.90	-76.20	-79.20	-69.30	-78.10
6	-78.50	-92.80	-78.80	-164.60	-77.80	-79.70	-72.20	-86.00	-73.00	-77.70	-75.50	-78.50
7	-78.80	-91.10	-80.80	-164.20	-78.10	-161.30	-73.50	-76.70	-72.80	-88.00	-76.40	-89.80
8	-78.10	-80.50	-79.50	-164.10	-76.80	-79.20	-72.90	-76.70	-74.50	-86.00	-74.80	-78.30
9	-74.40	-80.50	-78.40	-163.90	-75.40	-159.30	-73.20	-77.80	-76.70	-88.70	-74.20	-88.50
10	-77.60	-91.20	-76.90	-164.40	-75.20	-159.00	-74.60	-87.80	-77.10	-89.00	-72.10	-78.70
11	-75.40	-81.30	-81.30	-164.80	-74.70	-159.00	-73.00	-86.80	-75.20	-88.20	-72.60	-84.10
12	-76.20	-85.60	-80.70	-163.30	-72.60	-158.10	-75.90	-79.10	-74.60	-78.00	-71.80	-86.10
13	-76.60	-91.40	-78.10	-164.10	-70.10	-76.90	-72.60	-88.30	-74.60	-88.90	-73.20	-77.00
14	-75.30	-78.50	-80.10	-82.90	-73.20	-76.30	-74.40	-88.30	-74.60	-78.30	-72.50	-87.10
15	-75.10	-77.40	-80.30	-163.10	-73.70	-158.00	-73.10	-76.70	-75.70	-88.70	-72.70	-77.70
16	-77.00	-81.10	-79.50	-174.10	-73.00	-172.60	-74.40	-85.30	-75.30	-90.60	-75.10	-78.50
17	-77.80	-87.40	-80.80	-89.10	-75.00	-81.40	-75.10	-89.10	-74.40	-79.00	-72.70	-79.40
18	-80.50	-91.90	-78.80	-163.60	-74.20	-158.50	-75.90	-92.10	-73.80	-86.40	-71.00	-88.00
19	-77.60	-80.50	-77.80	-164.10	-72.60	-76.50	-77.70	-81.70	-73.70	-78.50	-73.60	-85.40
20	-77.20	-91.00	-76.50	-81.10	-75.30	-158.80	-78.30	-89.90	-71.20	-78.00	-73.30	-77.80
21	-76.20	-86.00	-76.50	-164.10	-75.70	-158.80	-77.90	-92.00	-68.90	-79.30	-73.10	-88.10
22	-74.70	-78.10	-77.30	-85.60	-75.20	-77.40	-79.60	-82.70	-74.30	-88.60	-73.10	-80.70
23	-74.40	-76.70	-76.80	-79.70	-75.30	-160.20	-78.50	-81.50	-72.80	-88.50	-76.20	-78.70
24	-74.70	-142.40	-76.80	-163.30	-74.50	-86.00	-80.40	-92.70	-72.80	-89.80	-73.30	-78.30
25	-77.50	-166.20	-80.40	-82.10	-78.10	-88.90	-78.20	-81.30	-73.40	-79.70	-75.20	-78.20
26	-75.70	-148.20	-79.60	-162.60	-77.60	-89.30	-77.50	-87.30	-74.70	-88.20	-75.20	-89.40
27	-75.50	-78.10	-78.50	-162.30	-74.20	-89.70	-77.50	-90.80	-73.10	-80.50	-71.90	-79.20
28	-76.00	-78.70	-79.00	-81.80	-72.10	-75.50	-78.10	-155.40	-71.10	-85.80	-74.40	-80.40
29	-74.40	-78.70	-79.60	-163.60	-72.70	-87.00	-79.50	-81.90	-69.00	-74.90	-73.70	-87.50
30	-74.60	-164.30	-80.10	-83.40	-71.60	-76.90	-78.30	-81.20	-67.40	-84.60	-76.70	-81.10
31	---	---	-77.80	-163.40	---	---	-78.00	-90.00	-67.70	-82.10	---	---
MONTH	-74.40	-166.20	-76.50	-174.10	-70.10	-172.60	-71.20	-155.40	-67.40	-91.00	-68.00	-89.80
YEAR	-67.40	-174.10										

Daily Low Water Levels



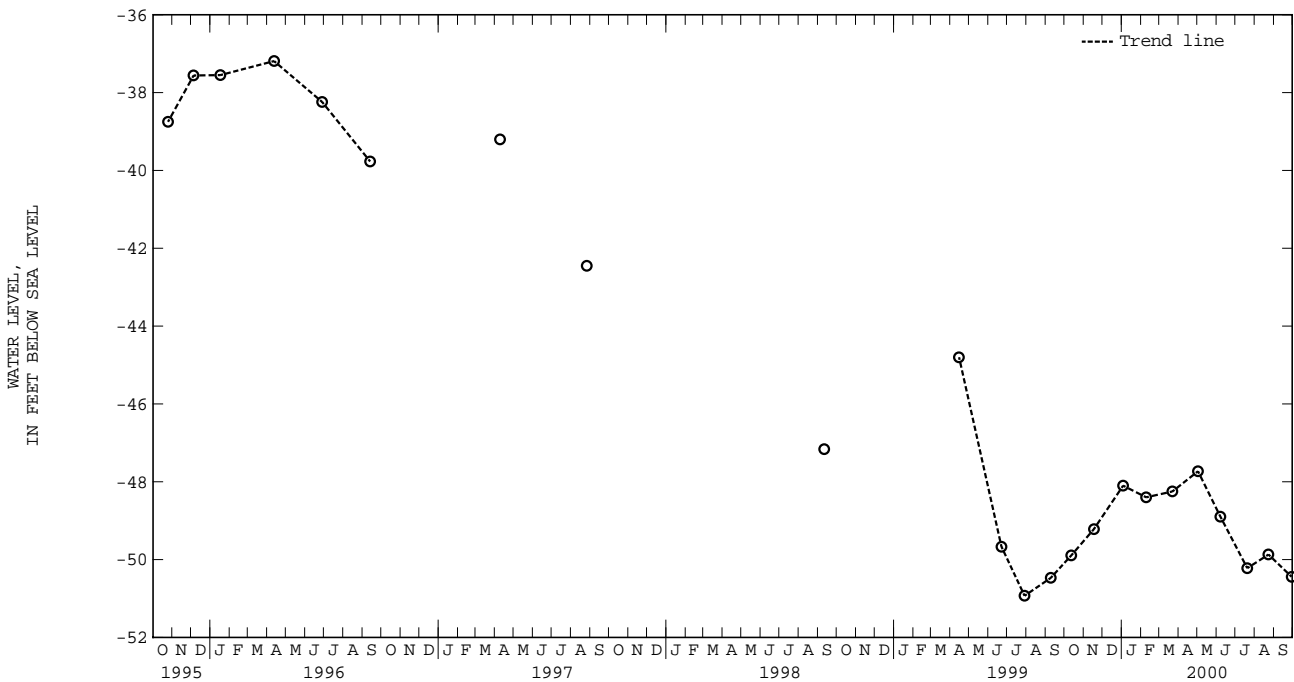
GROUND-WATER LEVELS IN MARYLAND--Continued

PRINCE GEORGES COUNTY--Continued

WELL NUMBER.--PG Hf 35. SITE ID.--383228076410601. PERMIT NUMBER.--PG-72-0086.
 LOCATION.--Lat 38°32'28", long 76°41'06", Hydrologic Unit 02060006, at Chalk Point Power Plant, 1.8 mi. south of Eagle Harbor.
 Owner: Potomac Electric Power Co.
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 430 ft; casing diameter 6 in., to 401 ft; casing diameter 4 in. from 389 to 399 ft; screen diameter 4 in. from 399 to 430 ft.
 INSTRUMENTATION.--Periodic measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder from May 1, 1974 to July 8, 1976. Equipped with digital water-level recorder--60-minute recorder interval from July 8, 1976 to Nov. 8, 1993.
 DATUM.--Elevation of land surface is 11.22 ft above sea level.
 Measuring Point: Top of casing, 2.22 ft above land surface.
 REMARKS.--Southern Maryland Observation Well Network. Water levels are affected by regional ground-water withdrawal.
 PERIOD OF RECORD.--May 1974 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.52 ft below land surface, Sept. 8, 1975; lowest measured, 62.15 ft below land surface, July 29, 1999.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 12, 1999	-49.89	FEB 09, 2000	-48.40	JUN 07, 2000	-48.90	SEP 29, 2000	-50.44
NOV 17	-49.22	MAR 22	-48.25	JUL 20	-50.22		
JAN 03, 2000	-48.10	MAY 02	-47.73	AUG 23	-49.87		
WATER YEAR 2000 HIGHEST -47.73 MAY 02, 2000		LOWEST -50.44		SEP 29, 2000			



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

PRINCE GEORGES COUNTY--Continued

WELL NUMBER.--PG Hf 40. SITE ID.--383348076411301. PERMIT NUMBER.--PG-73-0298.

LOCATION.--Lat 38°33'48", long 76°41'13", Hydrologic Unit 02060006, at Chalk Point Power Plant, 0.4 mi. south of Eagle Harbor.

Owner: Maryland Geological Survey.

AQUIFER.--Upper Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 870 ft; casing diameter 6 in., to 150 ft;

casing diameter 4 in. from 150 to 860 ft; screen diameter 4 in. from 860 to 870 ft.

INSTRUMENTATION.--Periodic measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder from Dec. 16, 1974 to July 8, 1976. Equipped with digital water-level recorder--30-minute recorder interval from July 8, 1976 to current year.

DATUM.--Altitude of land surface is 27.98 ft above sea level.

Measuring Point: Top of casing, 2.59 ft above land surface.

REMARKS.--Southern Maryland Observation Well Network. Water levels are affected by regional ground-water withdrawal. Missing data due to recorder malfunction.

PERIOD OF RECORD.--December 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.64 ft above sea level, Jan. 11, 1975;

lowest measured, 35.76 ft below sea level, Aug. 3, 1999.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-34.30	-34.59	-34.52	-34.77	-34.80	-35.22	-34.66	-34.97	-34.86	-35.06	-34.34	-34.76
2	-34.31	-34.58	-34.21	-34.70	-34.41	-34.81	-34.56	-34.82	-35.01	-35.31	-34.31	-34.67
3	-34.36	-34.62	-34.19	-34.81	-34.34	-34.63	-34.53	-34.75	-34.82	-35.23	-34.47	-34.74
4	-34.32	-34.55	-34.71	-35.07	-34.46	-34.75	-34.37	-34.70	-34.73	-35.03	-34.27	-34.58
5	-34.30	-34.67	-34.93	-35.18	-34.39	-34.71	-34.45	-34.96	-34.72	-35.04	-34.28	-34.75
6	-34.22	-34.47	-34.86	-35.14	-34.20	-34.54	-34.56	-34.96	-34.96	-35.31	-34.55	-34.90
7	-34.26	-34.67	-34.96	-35.25	-34.46	-34.80	-34.45	-34.76	-35.02	-35.33	-34.47	-34.87
8	-34.42	-34.68	-34.76	-35.08	-34.39	-34.74	-34.45	-34.77	-35.15	-35.42	-34.32	-34.68
9	-34.40	-34.69	-34.65	-34.96	-34.38	-34.70	-34.34	-34.65	-34.90	-35.34	-34.10	-34.54
10	-34.35	-34.69	-34.77	-35.02	-34.13	-34.56	-34.07	-34.56	-34.85	-35.09	-34.15	-34.44
11	-34.34	-34.70	-34.87	-35.19	-34.46	-34.72	-34.13	-34.46	-34.78	-35.07	-34.03	-34.45
12	-34.40	-34.74	-34.74	-35.17	-34.48	-34.71	-34.46	-34.71	-35.02	-35.22	-33.86	-34.35
13	-34.24	-34.61	-34.81	-35.01	-34.25	-34.64	-34.34	-34.77	-34.91	-35.23	-34.24	-34.49
14	-34.36	-34.74	-34.58	-34.98	-34.10	-34.36	-34.77	-35.10	-34.63	-34.98	-34.10	-34.35
15	-34.50	-34.80	-34.72	-35.04	-34.13	-34.35	-34.57	-35.02	-34.82	-35.24	-34.00	-34.29
16	-34.40	-34.70	-34.72	-34.97	-34.14	-34.44	-34.34	-34.66	-34.72	-35.08	-33.80	-34.17
17	-34.20	-34.57	-34.87	-35.10	-34.37	-34.68	-34.66	-34.98	-34.96	-35.34	-33.73	-34.33
18	-34.20	-34.63	-34.81	-35.01	-34.48	-34.81	-34.42	-34.90	-34.78	-35.19	-34.12	-34.43
19	-34.35	-34.57	-34.81	-35.06	-34.49	-34.82	-34.24	-34.53	-34.75	-35.37	-33.81	-34.14
20	-34.29	-34.51	-34.79	-35.04	-34.29	-34.62	-34.06	-34.63	-35.08	-35.44	-33.68	-33.99
21	-34.36	-34.56	-34.77	-35.09	-34.33	-34.75	-34.63	-34.98	-35.08	-35.38	-33.48	-33.92
22	-34.09	-34.42	-34.85	-35.17	-34.55	-34.91	-34.82	-35.18	-35.10	-35.40	-33.64	-34.07
23	-34.08	-34.46	-34.84	-35.19	-34.46	-34.91	-34.95	-35.22	-35.02	-35.37	-33.75	-34.07
24	-34.30	-34.75	-34.79	-35.17	-34.58	-34.92	-34.99	-35.24	-34.84	-35.24	-33.73	-34.01
25	-34.46	-34.88	-34.76	-35.11	-34.61	-34.97	-34.82	-35.16	-34.82	-35.05	-33.54	-34.00
26	-34.31	-34.70	-34.52	-35.04	-34.22	-34.75	-34.78	-35.06	-34.74	-35.07	-33.53	-33.76
27	-34.45	-34.76	-34.64	-34.98	-34.38	-34.64	-34.97	-35.35	-34.58	-34.86	-33.17	-33.74
28	-34.42	-34.77	-34.78	-35.04	-34.32	-34.64	-35.34	-35.53	-34.60	-34.91	-33.17	-33.36
29	-34.42	-34.70	-34.89	-35.07	-34.38	-34.82	-35.20	-35.40	-34.71	-34.98	-33.28	-33.74
30	-34.54	-34.82	-34.97	-35.23	-34.59	-34.86	-34.76	-35.27	---	---	-33.68	-34.09
31	-34.52	-34.80	---	---	-34.77	-35.00	-34.75	-34.96	---	---	-34.01	-34.28
MONTH	-34.08	-34.88	-34.19	-35.25	-34.10	-35.22	-34.06	-35.53	-34.58	-35.44	-33.17	-34.90

GROUND-WATER LEVELS IN MARYLAND--Continued

PRINCE GEORGES COUNTY--Continued

PG Hf 40--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-33.97	-34.18	-33.32	-33.75	-33.20	-33.56	-34.09	-34.42	-33.74	-34.08	-34.01	-34.31
2	-33.82	-34.09	-33.20	-33.78	-33.24	-33.58	-34.07	-34.34	-33.77	-34.08	-34.06	-34.33
3	-33.73	-34.06	-33.44	-33.77	-33.23	-33.82	-33.98	-34.33	-33.78	-34.10	-33.95	-34.28
4	-33.50	-33.96	-33.36	-33.68	-33.54	-34.10	-33.90	-34.25	-33.80	-34.08	-33.89	-34.12
5	-33.78	-34.13	-33.29	-33.64	-33.81	-34.12	-33.88	-34.18	-33.82	-34.11	-34.00	-34.22
6	-33.57	-34.05	-33.31	-33.64	-33.67	-34.08	-33.86	-34.16	-33.60	-34.04	-34.00	-34.34
7	-33.65	-34.03	-33.24	-33.59	-33.83	-34.13	-33.92	-34.19	-33.64	-33.97	-34.27	-34.45
8	-33.45	-33.84	-33.19	-33.50	-33.71	-34.01	-34.01	-34.30	-33.75	-34.11	-34.24	-34.44
9	-33.72	-34.32	-33.23	-33.54	-33.69	-33.97	-33.86	-34.16	-33.88	-34.32	-34.20	-34.40
10	-34.19	-34.37	-33.53	-34.02	-33.69	-33.94	-33.86	-34.17	---	---	-34.10	-34.33
11	-34.00	-34.39	-34.02	-34.33	-33.64	-33.94	-33.96	-34.25	-34.52	-34.74	-33.96	-34.19
12	-33.94	-34.18	-33.88	-34.19	-33.62	-33.94	-33.99	-34.29	-34.44	-34.70	-33.78	-34.07
13	-33.86	-34.27	-33.86	-34.12	-33.60	-33.85	-34.06	-34.25	-34.26	-34.52	-33.74	-34.12
14	-33.80	-34.06	-33.89	-34.15	-33.57	-34.13	-33.99	-34.19	-34.22	-34.43	-33.92	-34.20
15	-33.64	-33.96	-33.87	-34.16	-33.88	-34.15	-33.80	-34.14	-34.16	-34.42	-33.99	-34.58
16	-33.52	-33.82	-33.77	-34.08	-33.84	-34.16	-33.93	-34.23	-34.10	-34.38	-34.40	-34.63
17	-33.44	-33.76	-33.58	-33.84	-33.93	-34.29	-33.98	-34.34	-34.22	-34.46	-34.28	-34.65
18	-33.28	-33.56	-33.47	-33.79	-33.97	-34.29	-34.09	-34.34	-33.98	-34.37	-34.25	-34.48
19	-33.36	-33.72	-33.54	-33.98	-33.87	-34.14	-34.10	-34.40	-34.20	-34.53	-34.04	-34.41
20	-33.31	-33.70	-33.53	-33.97	-33.81	-34.14	-34.09	-34.30	-34.39	-34.69	-33.93	-34.24
21	-33.23	-33.72	-33.42	-33.73	-33.67	-34.05	-33.97	-34.19	-34.44	-34.70	-33.96	-34.16
22	-33.65	-34.03	-33.27	-33.64	-33.66	-33.96	-34.00	-34.32	-34.41	-34.70	-34.02	-34.30
23	-33.74	-34.06	-33.18	-33.56	-33.78	-34.04	-34.12	-34.38	-34.26	-34.60	-33.82	-34.15
24	-33.69	-33.98	-33.09	-33.34	-33.70	-33.99	-34.08	-34.30	-34.27	-34.65	-33.79	-34.04
25	-33.53	-33.85	-33.20	-33.44	-33.67	-33.87	-34.05	-34.29	-34.27	-34.57	-33.71	-34.08
26	-33.37	-33.73	-33.38	-33.65	-33.67	-33.97	-33.86	-34.14	-34.23	-34.46	-33.53	-33.95
27	-33.27	-33.47	-33.36	-33.56	-33.74	-34.14	-33.86	-34.16	-34.09	-34.34	-33.53	-33.87
28	-33.35	-33.66	-33.23	-33.54	-33.99	-34.41	-33.81	-34.11	-34.01	-34.35	-33.52	-33.96
29	-33.54	-33.79	-33.20	-33.43	-34.10	-34.36	-33.74	-34.09	-34.03	-34.30	-33.77	-34.06
30	-33.51	-33.81	-33.20	-33.48	-34.06	-34.44	-33.75	-34.09	-33.91	-34.22	-33.62	-33.95
31	---	---	-33.24	-33.52	---	---	-33.76	-34.09	-33.84	-34.19	---	---
MONTH	-33.23	-34.39	-33.09	-34.33	-33.20	-34.44	-33.74	-34.42	-33.60	-34.74	-33.52	-34.65
YEAR	-33.09	-35.53										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

PRINCE GEORGES COUNTY--Continued

WELL NUMBER.--PG Hf 41. SITE ID.--383348076411302. PERMIT NUMBER.--PG-73-0297.

LOCATION.--Lat 38°33'48", long 76°41'13", Hydrologic Unit 02060006, at Chalk Point Power Plant, 0.4 mi. south of Eagle Harbor.

Owner: Maryland Geological Survey.

AQUIFER.--Magothy Formation of Upper Cretaceous age. Aquifer code: 211MGTY.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 667 ft; casing diameter 6 in., to 150 ft; casing diameter 4 in. from 150 to 644 ft, and 654 to 665 ft; screen diameter 4 in. from 644 to 654 ft.

INSTRUMENTATION.--Periodic measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder from Dec. 16, 1974 to July 8, 1976. Equipped with digital water-level recorder--60-minute recorder interval from July 8, 1976 to current year.

DATUM.--Altitude of land surface is 28.30 ft above sea level.

Measuring Point: Top of casing, 2.65 ft above land surface.

REMARKS.--Southern Maryland Observation Network. Water levels are affected by local and regional ground-water withdrawal.

Missing data due to recorder malfunction.

PERIOD OF RECORD.--December 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.27 ft below sea level, Dec. 24, 1974; lowest measured, 50.99 ft below sea level, May 28, 1999.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-44.42	-44.70	-44.18	-44.42	-44.05	-44.61	-43.38	-43.85	---	---	-41.97	-42.33
2	-44.32	-44.59	-43.81	-44.35	-43.53	-44.05	-43.13	-43.43	---	---	-41.91	-42.20
3	-44.14	-44.37	-43.78	-44.45	-43.47	-43.88	-42.96	-43.19	---	---	-42.17	-42.35
4	-44.05	-44.32	-44.36	-44.62	-43.84	-44.16	---	---	---	---	-41.78	-42.18
5	-44.18	-44.56	-44.50	-44.69	-43.53	-44.05	---	---	-43.08	-43.41	-41.71	-41.93
6	-43.90	-44.42	-44.37	-44.64	-43.45	-43.87	---	---	-43.33	-43.72	-41.72	-41.99
7	-43.93	-44.39	-44.45	-44.69	-43.86	-44.17	-42.34	-42.64	-43.51	-43.79	-41.78	-42.00
8	-44.07	-44.39	-44.20	-44.57	-43.62	-43.97	-42.40	-42.65	-43.78	-44.04	-41.77	-41.99
9	-44.14	-44.44	-44.26	-44.56	-43.79	-44.06	-42.46	-42.65	-43.50	-43.93	-41.57	-41.97
10	-44.12	-44.46	-44.56	-44.95	-43.72	-44.02	-42.10	-42.54	-43.44	-43.68	-41.59	-41.88
11	-44.06	-44.41	-44.88	-45.14	-44.02	-44.34	-42.24	-42.60	-43.54	-43.72	-41.58	-41.97
12	-44.35	-44.60	-44.71	-45.18	-44.16	-44.38	---	---	-43.71	-43.93	-41.39	-41.81
13	-44.06	-44.55	-44.48	-44.80	-43.88	-44.31	---	---	-43.50	-43.94	-41.77	-42.04
14	-44.09	-44.39	-43.95	-44.56	-43.66	-43.99	---	---	-43.18	-43.52	-41.65	-41.83
15	-43.76	-44.30	-43.98	-44.53	-43.68	-43.91	---	---	-43.25	-43.63	-41.44	-41.76
16	-43.50	-43.88	-44.32	-44.62	-43.70	-44.18	---	---	-43.02	-43.43	-41.25	-41.54
17	-43.28	-43.65	-44.55	-44.85	-44.12	-44.57	---	---	-43.25	-43.65	-41.15	-41.81
18	-43.26	-43.66	-44.63	-44.83	-44.41	-44.71	---	---	-42.96	-43.45	-41.55	-41.90
19	-43.26	-43.53	-44.71	-44.96	-44.36	-44.77	---	---	-42.82	-43.21	-41.12	-41.57
20	-43.13	-43.32	-44.72	-45.07	-44.06	-44.37	---	---	-43.03	-43.27	-41.01	-41.25
21	-43.20	-43.40	-44.94	-45.42	-44.21	-44.78	-43.09	-43.47	-43.10	-43.33	-41.01	-41.25
22	-42.91	-43.30	-45.20	-45.52	-44.68	-45.00	-43.09	-43.45	-43.03	-43.33	-41.23	-41.57
23	-42.87	-43.28	-45.19	-45.56	-44.46	-44.98	-43.05	-43.35	-42.65	-43.13	---	---
24	-43.14	-43.49	-44.80	-45.39	-44.26	-44.60	-43.20	-43.39	-42.43	-42.81	---	---
25	-43.18	-43.56	-44.64	-45.06	-43.88	-44.39	-43.05	-43.23	-42.44	-42.63	---	---
26	-42.96	-43.34	-44.42	-44.90	-43.40	-43.98	-42.87	-43.19	-42.32	-42.63	---	---
27	-43.13	-43.44	-44.53	-44.83	-43.56	-43.95	---	---	-42.18	-42.40	---	---
28	-43.15	-43.47	-44.29	-44.65	-43.70	-44.07	---	---	-42.18	-42.49	-40.50	-40.64
29	-43.22	-43.60	-44.09	-44.44	-43.71	-44.09	---	---	-42.33	-42.56	-40.50	-40.71
30	-43.53	-44.33	-44.10	-44.61	-43.77	-44.03	---	---	---	---	-40.56	-40.76
31	-44.17	-44.39	---	---	-43.85	-44.19	---	---	---	---	-40.51	-40.72
MONTH	-42.87	-44.70	-43.78	-45.56	-43.40	-45.00	-42.10	-43.85	-42.18	-44.04	-40.50	-42.35

GROUND-WATER LEVELS IN MARYLAND--Continued

PRINCE GEORGES COUNTY--Continued

PG Hf 41--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-40.23	-40.51	---	---	-39.45	-39.75	-43.71	-43.91	-45.47	-45.69	-45.15	-45.38
2	-40.11	-40.32	-38.55	-38.93	-39.53	-39.88	-43.25	-43.79	-45.26	-45.73	-45.32	-45.50
3	-40.14	-40.28	-38.75	-38.98	-39.63	-40.12	-43.09	-43.69	-45.15	-45.47	-44.96	-45.45
4	---	---	-38.67	-38.87	-39.79	-40.12	-43.63	-44.13	-45.47	-45.76	-44.70	-44.96
5	---	---	-38.55	-38.80	-39.94	-40.21	-44.07	-44.34	-45.44	-45.77	-44.70	-45.14
6	---	---	-38.50	-38.75	-40.06	-40.30	-44.23	-44.47	-44.83	-45.45	-44.58	-44.95
7	-39.88	-40.16	-38.62	-38.84	-40.21	-40.63	-44.22	-44.41	-44.74	-44.83	-44.45	-44.58
8	-39.66	-40.01	-38.52	-38.83	-40.31	-40.48	-44.35	-44.53	-44.80	-45.31	-44.49	-44.88
9	---	---	-38.54	-38.84	-40.38	-40.93	-44.35	-44.52	-45.30	-45.58	-44.79	-45.05
10	---	---	-38.80	-39.17	-40.91	-41.32	---	---	-45.49	-45.58	-45.00	-45.09
11	---	---	-39.17	-39.72	-41.05	-41.24	---	---	-45.16	-45.49	-44.52	-45.00
12	---	---	-39.47	-39.67	-41.00	-41.35	-44.83	-45.44	-45.14	-45.57	-44.33	-44.55
13	---	---	-39.49	-39.83	-41.17	-41.33	-45.41	-45.58	-45.55	-45.81	-44.48	-44.82
14	-39.52	-39.73	-39.76	-40.27	-40.99	-41.24	-45.40	-45.65	-45.81	-46.37	-44.79	-44.95
15	-39.42	-39.62	-40.13	-40.55	-41.02	-41.24	-45.44	-45.78	-45.95	-46.37	-44.53	-44.81
16	-39.26	-39.48	-40.10	-40.49	-41.03	-41.67	-45.70	-45.95	-45.53	-45.97	-44.70	-44.93
17	---	---	-39.66	-40.15	-41.63	-42.07	-45.85	-46.18	-45.55	-45.78	-44.68	-44.90
18	---	---	-39.65	-39.99	-41.97	-42.21	-45.83	-46.18	-45.76	-46.08	-44.42	-44.68
19	---	---	-39.89	-40.31	-41.91	-42.19	-45.83	-45.99	-46.08	-46.49	-44.22	-44.49
20	---	---	-39.98	-40.31	-41.82	-42.17	-45.79	-45.94	-45.88	-46.27	-44.07	-44.24
21	---	---	-39.81	-40.06	-41.71	-41.89	-45.57	-45.79	-45.89	-46.06	-44.06	-44.23
22	---	---	-39.57	-39.87	-41.73	-41.96	-45.42	-45.63	-46.04	-46.39	-44.20	-44.53
23	---	---	-39.49	-39.87	-41.93	-42.11	-45.36	-45.53	-45.94	-46.34	-44.25	-44.43
24	---	---	-39.45	-39.59	-41.94	-42.26	-45.30	-45.44	-45.78	-45.96	-44.16	-44.25
25	---	---	-39.44	-39.55	-42.14	-42.44	-45.03	-45.40	-45.59	-45.78	-44.04	-44.19
26	---	---	-39.47	-39.69	-42.37	-43.03	-44.84	-45.04	-45.46	-45.63	-43.64	-44.04
27	---	---	-39.52	-39.67	-43.01	-43.75	-44.80	-44.95	-45.00	-45.46	-43.52	-43.75
28	---	---	-39.29	-39.56	-43.59	-43.92	-44.82	-45.27	-44.97	-45.28	-43.51	-43.66
29	---	---	-39.15	-39.29	-43.32	-43.59	-45.05	-45.34	-44.93	-45.28	-43.57	-43.72
30	---	---	-39.12	-39.31	-43.36	-43.92	-45.21	-45.64	-44.91	-45.16	-43.24	-43.57
31	---	---	-39.15	-39.56	---	---	-45.47	-45.64	-44.92	-45.16	---	---
MONTH	-39.26	-40.51	-38.50	-40.55	-39.45	-43.92	-43.09	-46.18	-44.74	-46.49	-43.24	-45.50
YEAR	-38.50	-46.49										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

PRINCE GEORGES COUNTY--Continued

WELL NUMBER.--PG Hf 42. SITE ID.--383348076411303. PERMIT NUMBER.--PG-73-0294.

LOCATION.--Lat 38°33'48", long 76°41'13", Hydrologic Unit 02060006, at Chalk Point Power Plant, 0.4 mi. south of Eagle Harbor.

Owner: Maryland Geological Survey.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 386 ft; casing diameter 6 in., to 150 ft; casing diameter 4 in. from 150 to 366 ft and 376 to 386 ft; screen diameter 4 in. from 366 to 376 ft.

INSTRUMENTATION.--Periodic measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder from Jan. 2, 1975 to July 8, 1976. Equipped with digital water-level recorder--60-minute recorder interval from July 8, 1976 to current year.

DATUM.--Altitude of land surface is 27.76 ft above sea level.

Measuring Point: Top of casing, 2.71 ft above land surface.

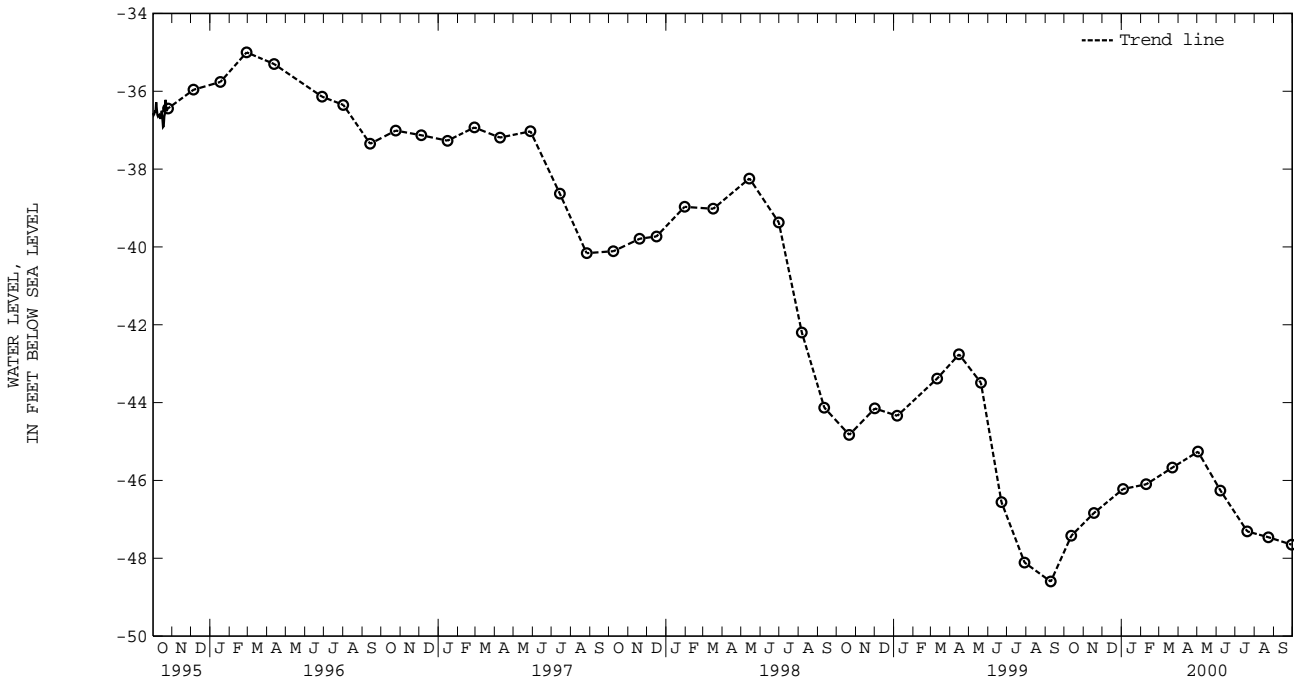
REMARKS.--Southern Maryland Observation Well Network. Water levels are affected by regional ground-water withdrawal.

PERIOD OF RECORD.--January 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.84 ft above sea level, April 22, 1975; lowest measured, 48.84 ft below sea level, Sept. 13, 1999.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 12, 1999	-47.42	FEB 09, 2000	-46.10	JUN 07, 2000	-46.26	SEP 29, 2000	-47.65
NOV 17	-46.84	MAR 22	-45.67	JUL 20	-47.31		
JAN 03, 2000	-46.22	MAY 02	-45.26	AUG 23	-47.46		
WATER YEAR 2000 HIGHEST -45.26		MAY 02, 2000		LOWEST -47.65		SEP 29, 2000	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

PRINCE GEORGES COUNTY--Continued

WELL NUMBER.--PG Hf 44. SITE ID.--383250076405304. PERMIT NUMBER.--PG-73-0065.
 LOCATION.--Lat 38°32'50", Long 76°40'53", Hydrologic Unit 02060006, at Chalk Point Power Plant, on east side of canal.
 Owner: Potomac Edison Power Co.
 AQUIFER.--Upper Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 1,030 ft; casing diameter 3 in., to 1,025 ft; screen diameter 3 in. from 1,025 to 1,030 ft.
 INSTRUMENTATION.--Periodic measurements with electric tape by U.S. Geological Survey personnel. Equipped with transducer water-level recorder--15-minute recorder interval from June 1995 to current year.
 DATUM.--Elevation of land surface is 10.48 ft above sea level.
 Measuring Point: Top of casing, 5.10 ft above land surface.
 REMARKS.--Southern Maryland Observation Well Network. Water levels are affected by local ground-water withdrawal. This well has a 1 in. diameter well inside the 3 in. casing separated by a packer screened in the Lower Patapsco Formation as well PG Hf 32.
 PERIOD OF RECORD.--June 1973, July 1975 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.11 ft above sea level, June 24, 1973;
 lowest measured, 50.54 ft below sea level, Feb. 2, 2000.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-38.79	-45.70	-47.86	-49.30	-37.07	-40.10	-39.90	-47.86	-48.12	-50.13	-39.55	-46.60
2	-39.26	-46.47	-46.21	-48.87	-38.08	-44.72	-39.75	-46.71	-49.33	-50.54	-37.60	-39.55
3	-41.05	-47.11	-45.96	-49.04	-40.22	-45.65	-42.37	-46.71	-46.45	-50.25	-36.88	-37.89
4	-39.05	-45.41	-45.96	-49.02	-37.59	-40.22	-42.60	-47.40	-48.75	-50.42	-36.05	-37.71
5	-39.60	-45.67	-48.27	-49.42	-37.24	-42.96	-41.97	-45.42	-48.78	-50.25	-37.51	-38.81
6	-43.41	-46.76	-48.24	-49.42	-37.50	-43.05	-44.73	-47.35	-45.65	-50.08	-36.94	-43.03
7	-42.23	-46.82	-48.52	-49.42	-37.22	-44.75	-46.48	-47.75	-45.45	-50.10	-41.51	-46.05
8	-42.14	-46.68	-47.83	-49.42	-40.42	-45.30	-42.57	-47.49	-43.03	-50.39	-37.17	-41.51
9	-42.11	-46.59	-47.80	-48.67	-39.70	-45.36	-38.72	-43.41	-44.99	-48.98	-36.59	-41.68
10	-39.46	-46.33	-42.87	-48.44	-39.15	-45.27	-43.29	-46.51	-45.13	-49.90	-36.28	-44.12
11	-44.42	-46.73	-46.56	-48.58	-41.17	-45.94	-45.56	-47.43	-44.53	-49.39	-36.56	-42.43
12	-46.21	-48.41	-40.70	-48.52	-40.91	-46.34	-41.11	-47.98	-42.77	-50.16	-35.85	-42.17
13	-45.09	-49.04	-38.27	-40.70	-44.23	-46.31	-45.62	-48.41	-40.62	-47.89	-40.93	-45.97
14	-41.05	-46.68	-37.70	-44.89	-41.66	-45.53	-44.56	-48.15	-40.22	-48.61	-36.76	-41.80
15	-41.48	-47.51	-44.63	-46.94	-42.93	-45.85	-41.36	-48.73	-38.43	-41.05	-35.79	-37.66
16	-46.59	-47.89	-44.25	-47.63	-45.30	-47.21	-41.60	-46.83	-38.60	-46.60	-35.73	-43.81
17	-42.03	-48.06	-47.40	-48.65	-41.55	-47.35	-40.36	-47.46	-38.95	-44.73	-36.51	-38.46
18	-44.31	-48.12	-43.16	-48.62	-44.26	-47.41	-44.93	-48.32	-38.43	-49.44	-35.70	-36.91
19	-46.27	-48.55	-39.87	-45.44	-39.93	-45.36	-41.68	-48.55	-45.62	-49.65	-35.59	-43.90
20	-46.33	-48.93	-43.63	-46.83	-44.95	-46.89	-41.80	-47.46	-48.03	-49.42	-40.42	-45.71
21	-48.12	-49.19	-43.80	-47.09	-43.86	-47.15	-40.16	-49.73	-44.56	-49.47	-43.98	-46.97
22	-47.83	-49.28	-44.26	-47.21	-41.95	-47.09	-42.77	-49.67	-41.97	-45.25	-38.37	-46.88
23	-42.69	-49.42	-39.99	-47.84	-38.98	-45.39	-47.46	-49.79	-39.64	-44.44	-36.19	-38.89
24	-40.38	-42.69	-39.78	-46.20	-40.62	-46.46	-49.07	-50.19	-38.49	-46.45	-35.47	-36.42
25	-42.14	-46.47	-42.38	-47.18	-38.80	-45.04	-48.93	-49.96	-41.11	-46.40	-35.21	-40.62
26	-43.67	-45.96	-43.22	-46.14	-38.69	-44.32	-43.09	-49.39	-40.82	-47.75	-40.42	-45.02
27	-41.33	-47.08	-38.77	-43.22	-41.84	-45.96	-45.59	-49.70	-40.19	-47.37	-37.91	-45.73
28	-46.62	-47.86	-37.45	-38.77	-39.55	-46.86	-49.16	-50.39	-39.52	-47.86	-36.39	-42.89
29	-46.59	-47.98	-37.07	-44.46	-40.91	-46.77	-47.09	-50.08	-38.89	-46.57	-40.53	-46.05
30	-46.99	-48.41	-38.63	-45.73	-41.46	-47.29	-48.87	-49.93	---	---	-40.22	-48.52
31	-47.63	-48.64	---	---	-45.47	-48.13	-48.73	-49.99	---	---	-38.06	-43.03
MONTH	-38.79	-49.42	-37.07	-49.42	-37.07	-48.13	-38.72	-50.39	-38.43	-50.54	-35.21	-48.52

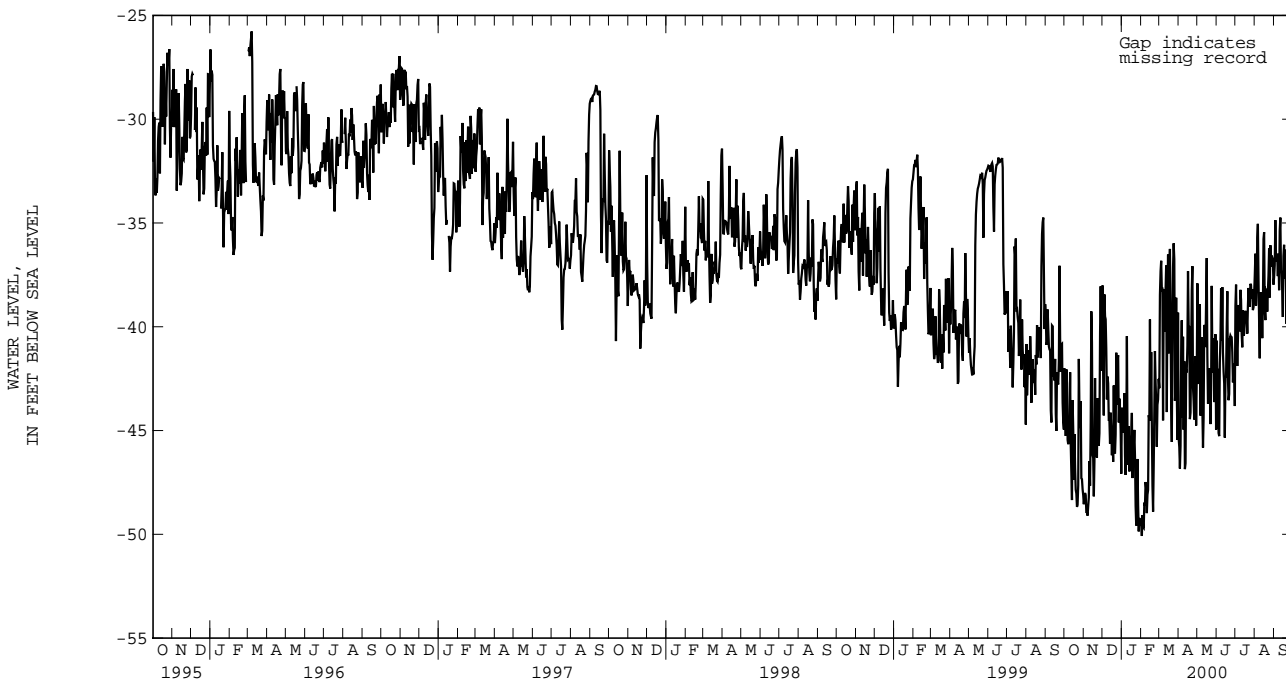
PRINCE GEORGES COUNTY--Continued

PG Hf 44--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-43.03	-46.86	-36.59	-39.90	-38.37	-44.38	-37.60	-42.06	-35.85	-40.16	-35.90	-39.55
2	-42.57	-47.52	-36.10	-45.62	-40.67	-44.64	-36.62	-40.44	-35.16	-38.95	-35.39	-39.90
3	-45.82	-47.55	-39.87	-46.02	-40.56	-44.58	-40.04	-41.45	-37.51	-39.93	-34.32	-35.50
4	-43.49	-47.75	-38.35	-46.28	-40.67	-46.74	-40.93	-43.03	-35.99	-39.93	-34.41	-38.75
5	-39.21	-47.43	-36.82	-43.98	-40.99	-47.57	-39.09	-42.03	-34.98	-36.36	-35.59	-38.78
6	-37.48	-44.73	-43.29	-45.39	-38.46	-45.33	-36.76	-41.31	-34.41	-35.56	-35.41	-37.20
7	-39.93	-47.03	-38.26	-45.10	-38.12	-44.79	-37.77	-40.79	-34.41	-39.24	-35.33	-39.21
8	-37.83	-46.71	-37.48	-42.66	-36.94	-39.75	-37.80	-41.19	-38.60	-40.96	-35.56	-39.07
9	-40.56	-48.44	-40.39	-45.19	-39.15	-42.00	-36.45	-39.67	-39.64	-42.54	-36.36	-39.21
10	-38.52	-46.14	-42.52	-47.26	-36.54	-41.97	-37.28	-40.39	-37.05	-39.64	-34.75	-36.36
11	-46.14	-47.37	-39.84	-47.83	-37.08	-43.20	-38.81	-40.96	-38.03	-40.36	-34.03	-36.76
12	-43.69	-47.83	-38.26	-41.34	-39.09	-44.41	-40.53	-41.39	-37.60	-40.65	-35.79	-38.55
13	-38.58	-46.25	-38.20	-41.97	-38.29	-46.45	-37.83	-41.08	-40.19	-40.93	-34.72	-40.07
14	-38.20	-45.82	-38.86	-43.00	-42.92	-46.68	-38.63	-40.99	-36.91	-40.79	-37.45	-39.61
15	-38.63	-45.53	-37.17	-41.57	-40.04	-46.51	-38.92	-41.02	-35.27	-36.91	-37.83	-40.59
16	-36.54	-38.63	-36.10	-37.57	-39.67	-44.01	-37.63	-41.05	-34.58	-37.91	-35.56	-38.09
17	-36.13	-44.47	-36.76	-43.78	-38.09	-41.85	-37.22	-41.02	-37.91	-40.13	-34.95	-38.37
18	-37.43	-44.96	-40.53	-46.02	-36.79	-41.39	-38.12	-40.56	-38.12	-40.44	-35.41	-39.29
19	-40.04	-46.43	-41.34	-44.96	-40.44	-44.10	-37.63	-41.68	-37.17	-38.81	-35.04	-37.89
20	-41.62	-46.08	-39.09	-45.22	-41.62	-45.13	-38.35	-42.57	-36.31	-39.70	-35.36	-39.47
21	-39.84	-44.99	-39.99	-45.51	-39.64	-44.96	-36.76	-40.73	-37.80	-40.24	-38.78	-40.59
22	-37.28	-39.84	-42.43	-45.62	-39.27	-41.42	-36.13	-40.10	-36.36	-40.30	-35.64	-38.78
23	-36.28	-40.01	-40.50	-44.58	-38.58	-41.54	-37.20	-40.42	-36.25	-39.04	-36.31	-39.73
24	-40.01	-44.10	-36.85	-40.73	-38.89	-42.23	-36.48	-40.39	-35.67	-37.63	-34.75	-36.31
25	-41.88	-45.04	-37.00	-43.84	-38.75	-41.34	-36.33	-39.58	-37.51	-39.38	-34.35	-36.31
26	-42.66	-45.73	-38.75	-44.47	-40.73	-41.62	-35.79	-39.90	-35.13	-38.17	-36.07	-44.21
27	-41.80	-45.59	-37.94	-44.84	-41.19	-44.01	-35.79	-40.01	-34.72	-39.04	-38.23	-45.22
28	-40.62	-42.34	-40.19	-46.48	-39.70	-44.73	-36.33	-40.39	-35.44	-38.89	-35.56	-38.23
29	-42.34	-45.68	-38.86	-44.87	-40.22	-43.23	-36.91	-40.36	-34.69	-39.07	-34.72	-36.62
30	-40.04	-45.51	-37.63	-43.98	-41.54	-45.71	-37.94	-40.36	-35.13	-39.07	-34.38	-35.44
31	---	---	-43.58	-45.53	---	---	-36.56	-40.16	-35.50	-39.01	---	---
MONTH	-36.13	-48.44	-36.10	-47.83	-36.54	-47.57	-35.79	-43.03	-34.41	-42.54	-34.03	-45.22
YEAR	-34.03	-50.54										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

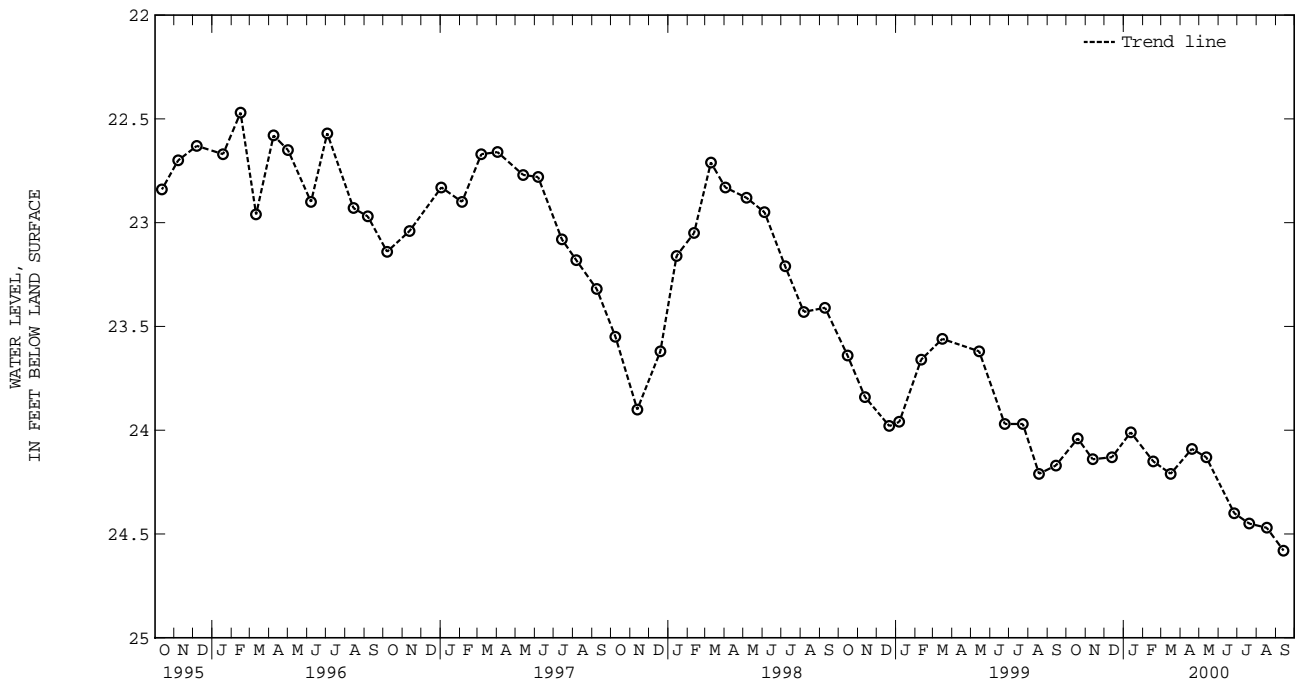
GROUND-WATER LEVELS IN MARYLAND--Continued

QUEEN ANNES COUNTY

WELL NUMBER.--QA Be 15. SITE ID.--391203076024301. PERMIT NUMBER.--QA-70-0130.
 LOCATION.--Lat 39°12'03", long 76°02'43", Hydrologic Unit 02060002, at Kingstown off MD Rt. 213.
 Owner: U.S. Geological Survey.
 AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 1,171 ft; casing diameter 4 in., to 1,161 ft; screen diameter 4 in. from 1,161 to 1,171 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Measured twice yearly from February 1988 to April 1991.
 DATUM.--Elevation of land surface is 25 ft above sea level, from topographic map.
 Measuring point: Top of casing, 2.52 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by regional ground-water withdrawal.
 PERIOD OF RECORD.--March 1971 to October 1972, July 1977 to December 1978, October 1986 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.52 ft below land surface, Oct. 10, 1971; lowest measured, 24.58 ft below land surface, Sept. 13, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 1999	24.04	JAN 12, 2000	24.01	APR 19, 2000	24.09	JUL 20, 2000	24.45
NOV 12	24.14	FEB 17	24.15	MAY 12	24.13	AUG 17	24.47
DEC 13	24.13	MAR 16	24.21	JUN 26	24.40	SEP 13	24.58
WATER YEAR 2000 HIGHEST		24.01	JAN 12, 2000	LOWEST		24.58	SEP 13, 2000



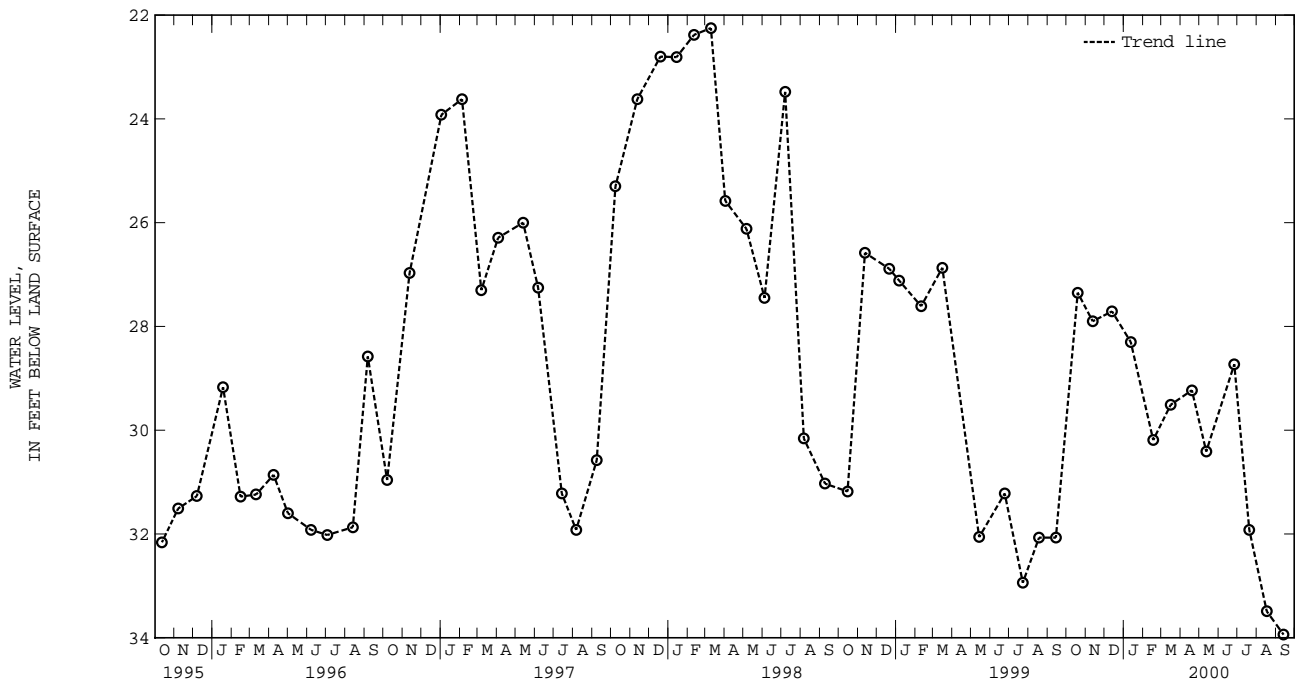
5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Be 16. SITE ID.--391203076024302. PERMIT NUMBER.--QA-70-0130.
 LOCATION.--Lat 39°12'03", long 76°02'43", Hydrologic Unit 02060002, at Kingstown off MD Rt. 213.
 Owner: U.S. Geological Survey.
 AQUIFER.--Upper Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 495 ft; casing diameter 6 in., to 475 ft; screen diameter 6 in. from 475 to 495 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Measured twice yearly from February 1988 to April 1991.
 DATUM.--Elevation of land surface is 25 ft above sea level, from topographic map.
 Measuring point: Top of casing, 2.70 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.
 PERIOD OF RECORD.--March 1971 to September 1972, July 1977 to May 1979, October 1986 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.41 ft below land surface, Sept. 11, 1971; lowest measured, 33.94 ft below land surface, Sept. 13, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 1999	27.35	JAN 12, 2000	28.30	APR 19, 2000	29.23	JUL 20, 2000	31.92
NOV 12	27.90	FEB 17	30.19	MAY 12	30.41	AUG 17	33.49
DEC 13	27.71	MAR 16	29.51	JUN 26	28.73	SEP 13	33.94
WATER YEAR 2000 HIGHEST 27.35		OCT 19, 1999		LOWEST 33.94		SEP 13, 2000	



GROUND-WATER LEVELS IN MARYLAND--Continued

QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Be 17. SITE ID.--391203076024303.

LOCATION.--Lat 39°12'03", long 76°02'43", Hydrologic Unit 02060002, at Kingstown off MD Rt. 213.

Owner: U.S. Geological Survey.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 120 ft; casing diameter 6 in., to 100 ft; screen diameter 6 in. from 100 to 120 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Measured twice yearly from February 1988 to April 1991.

DATUM.--Elevation of land surface is 25 ft above sea level, from topographic map.

Measuring point: Top of casing, 2.50 ft above land surface.

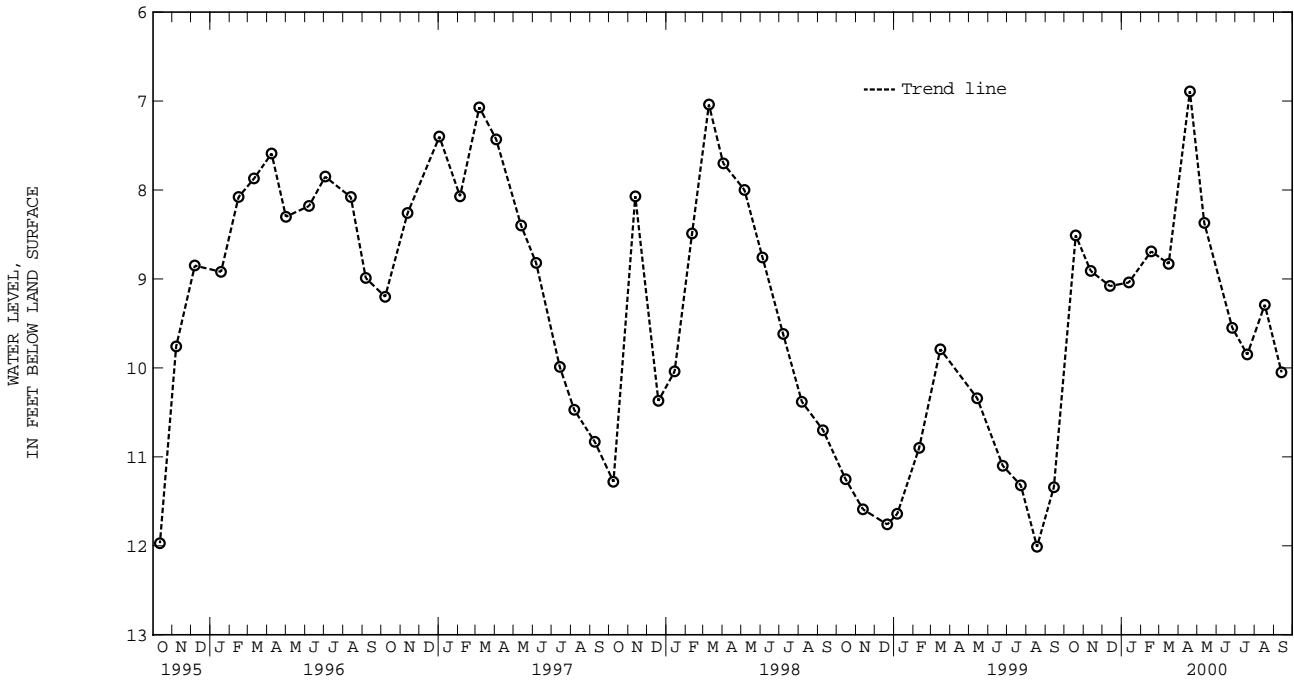
REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--July 1977 to July 1979, October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.94 ft below land surface, March 6, 1979; lowest measured, 13.00 ft below land surface, Sept. 30, 1977.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 1999	8.51	JAN 12, 2000	9.04	APR 19, 2000	6.89	JUL 20, 2000	9.85
NOV 12	8.91	FEB 17	8.69	MAY 12	8.37	AUG 17	9.29
DEC 13	9.08	MAR 16	8.83	JUN 26	9.55	SEP 13	10.05
WATER YEAR 2000 HIGHEST		6.89	APR 19, 2000	LOWEST		10.05	SEP 13, 2000



QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Cg 1. SITE ID.--390841075515201. PERMIT NUMBER.--QA-00-3949.

LOCATION.--Lat 39°08'41", long 75°51'52", Hydrologic Unit 02060002, at Barclay.

Owner: Town of Barclay.

AQUIFER.--Pensauken Formation of Upper Miocene age. Aquifer code: 122PNSK.

WELL CHARACTERISTICS.--Drilled, unused, water-table well, reported depth 60 ft, measured depth 44 ft; casing diameter 4 in., to 50 ft; screened from 50 to 60 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 69 ft above sea level, from topographic map.

Measuring point: Lip of hose connector, 1.90 ft above land surface.

REMARKS.--Maryland Water-Level Network and Collection of Basic Records (CBR) national network observation well (see figure 3).

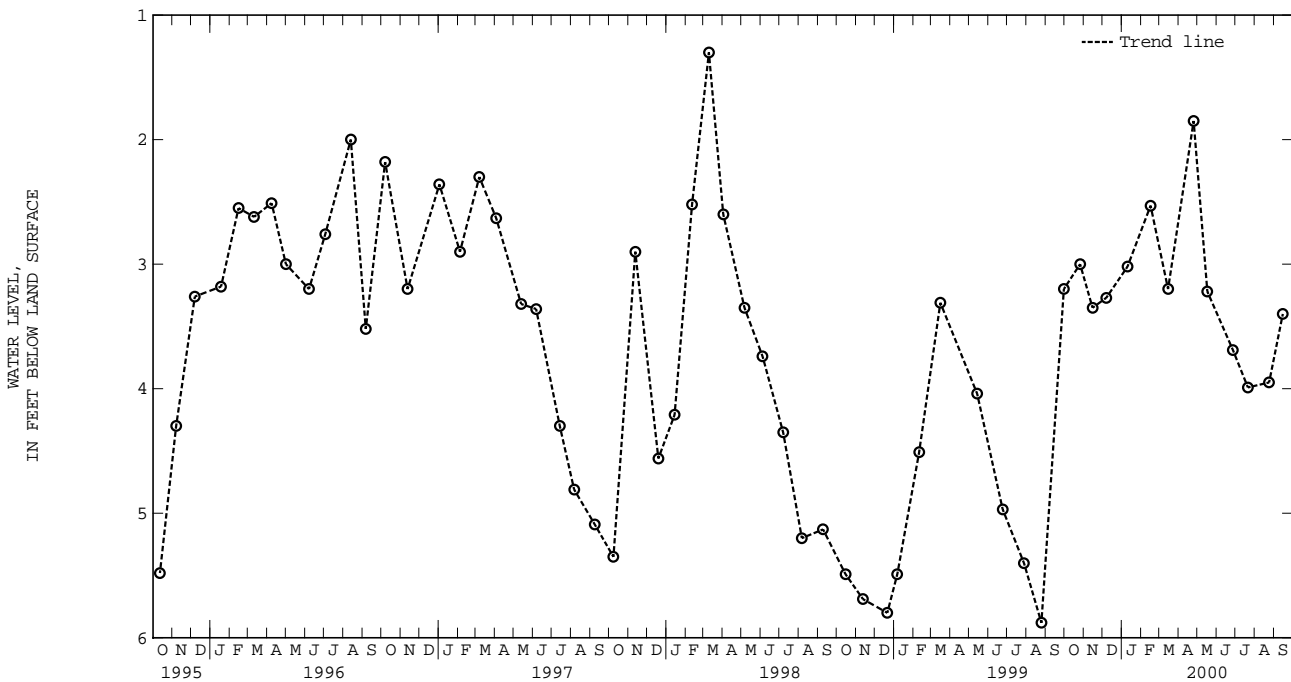
Reported water level 4.0 ft below land surface, June 10, 1949.

PERIOD OF RECORD.--July 1953, May 1956 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.30 ft below land surface, March 10, 1998;
lowest measured, 6.47 ft below land surface, Jan. 3, 1966.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 1999	3.00	JAN 10, 2000	3.02	APR 25, 2000	1.85	JUL 21, 2000	3.99
NOV 15	3.35	FEB 16	2.53	MAY 17	3.22	AUG 24	3.95
DEC 07	3.27	MAR 15	3.20	JUN 27	3.69	SEP 15	3.40
WATER YEAR 2000 HIGHEST		1.85	APR 25, 2000	LOWEST		3.99	JUL 21, 2000



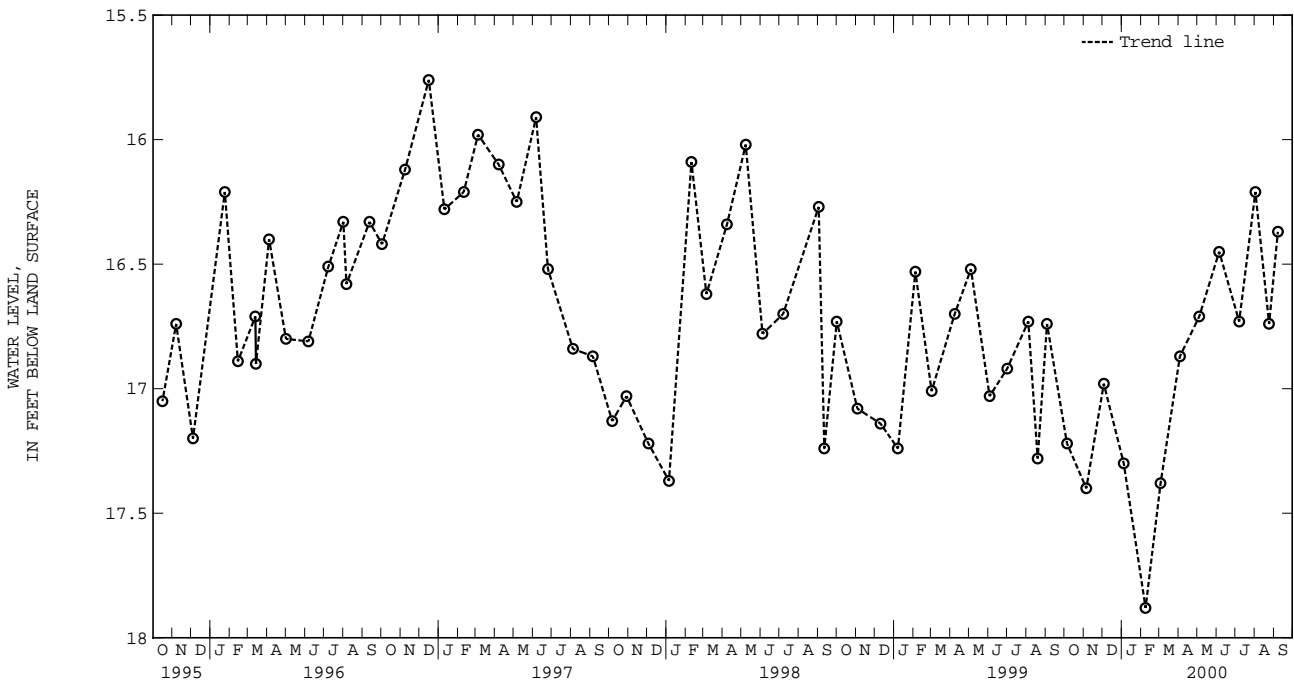
GROUND-WATER LEVELS IN MARYLAND--Continued

QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Db 30. SITE ID.--390201076182701. PERMIT NUMBER.--QA-81-0473.
 LOCATION.--Lat 39°02'01", long 76°18'27", Hydrologic Unit 02060002, north side of Pier Avenue, 0.5 mi south of Love Point.
 Owner: Maryland Geological Survey.
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 220 ft; casing diameter 4 in., to 210 ft; screen diameter 4 in. from 210 to 220 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 17.80 ft above sea level.
 Measuring point: Top of casing, 2.41 ft above land surface.
 REMARKS.--Kent Island ground-water monitoring network well. Water levels are affected by local ground-water withdrawal.
 PERIOD OF RECORD.--April 1985 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.59 ft below land surface, Apr. 9, 1993;
 lowest measured, 18.37 ft below land surface, Mar. 3, 1995.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	17.22	FEB 08, 2000	17.88	JUN 05, 2000	16.45	SEP 07, 2000	16.37
NOV 05	17.40	MAR 03	17.38	JUL 07	16.73		
DEC 03	16.98	APR 03	16.87	AUG 02	16.21		
JAN 04, 2000	17.30	MAY 04	16.71	24	16.74		
WATER YEAR 2000 HIGHEST 16.21		AUG 02, 2000		LOWEST 17.88		FEB 08, 2000	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

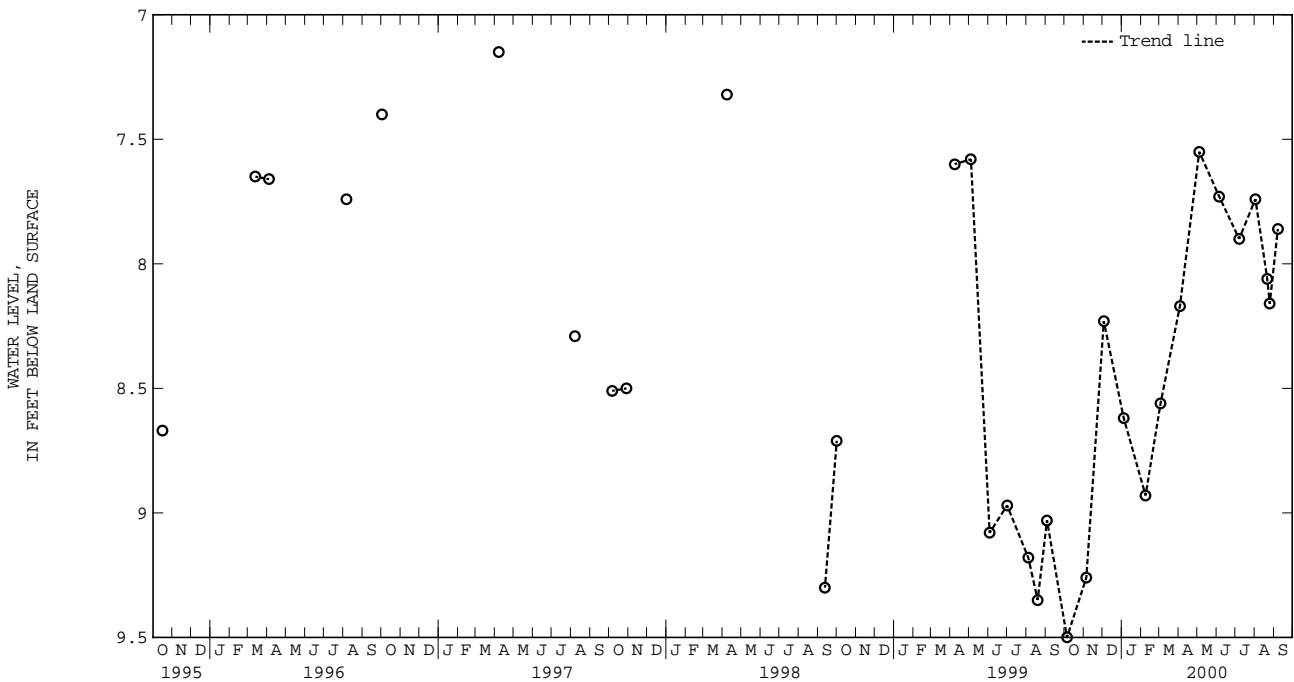
GROUND-WATER LEVELS IN MARYLAND--Continued

QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Db 34. SITE ID.--390023076174301. PERMIT NUMBER.--QA-81-0471.
 LOCATION.--Lat 39°00'23", long 76°17'43", Hydrologic Unit 02060002, near Cloverfields community park, Kent Island.
 Owner: Maryland Geological Survey.
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 180 ft; casing diameter 4 in., to 170 ft; screen diameter 4 in. from 170 to 180 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Measured twice yearly from April 1985 to February 1999.
 DATUM.--Elevation of land surface is 7.4 ft above sea level.
 Measuring point: Top of casing, 2.50 ft above land surface.
 REMARKS.--Kent Island ground-water monitoring network well. Water levels are affected by local ground-water withdrawal.
 PERIOD OF RECORD.--April 1985 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.15 ft below land surface, April 7, 1997;
 lowest measured, 9.72 ft below land surface, Nov. 13, 1990.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	9.50	FEB 08, 2000	8.93	JUN 05, 2000	7.73	AUG 25, 2000	8.16
NOV 05	9.26	MAR 03	8.56	JUL 07	7.90	SEP 07	7.86
DEC 03	8.23	APR 03	8.17	AUG 02	7.74		
JAN 04, 2000	8.62	MAY 04	7.55	AUG 21	8.06		
WATER YEAR 2000 HIGHEST 7.55		MAY 04, 2000		LOWEST 9.50		OCT 05, 1999	



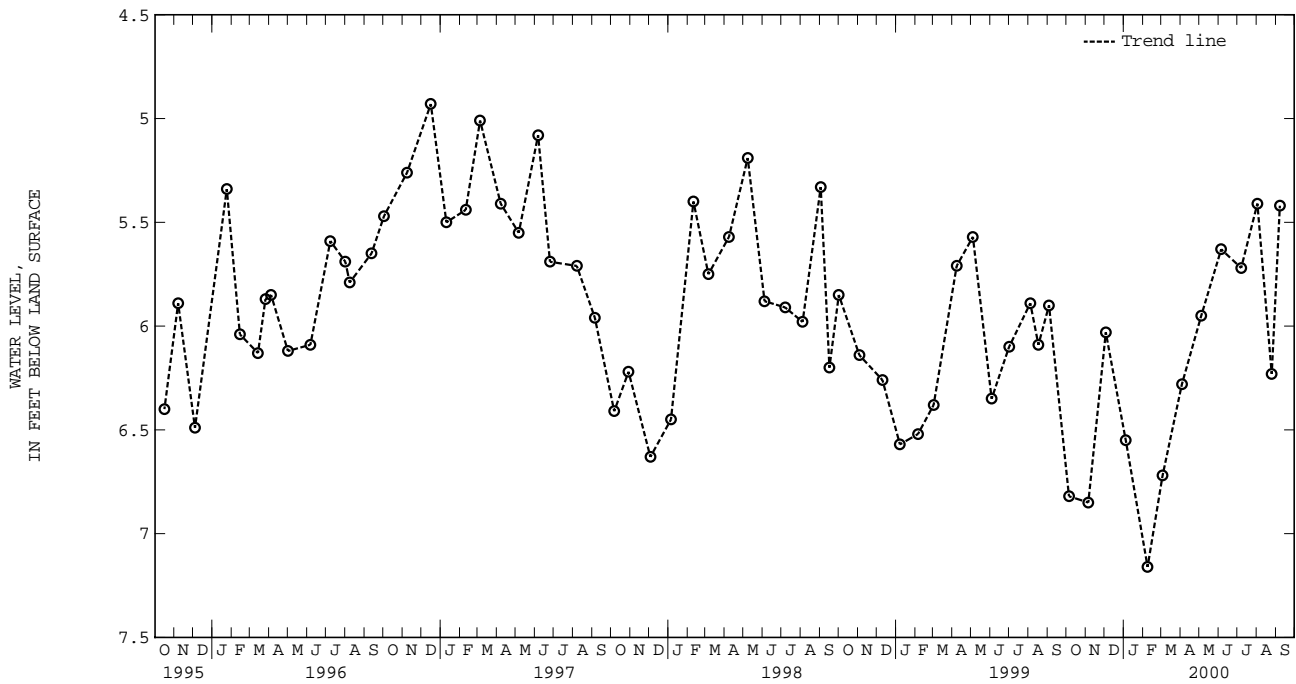
5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Db 35. SITE ID.--390119076191001. PERMIT NUMBER.--QA-81-0472.
 LOCATION.--Lat 39°01'19", long 76°19'10", Hydrologic Unit 02060002, 0.5 mi west of MD Rt. 18, at Mylander Farms, Kent Island.
 Owner: Maryland Geological Survey.
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 200 ft; casing diameter 4 in., to 190 ft;
 screen diameter 4 in. from 190 to 200 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Measured twice yearly from
 April 1987 to April 1989.
 DATUM.--Elevation of land surface is 7.5 ft above sea level.
 Measuring point: Top of casing, 2.21 ft above land surface.
 REMARKS.--Kent Island ground-water monitoring network well. Water levels are affected by local ground-water withdrawal.
 PERIOD OF RECORD.--August 1984 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.93 ft below land surface, Dec. 16, 1996;
 lowest measured, 7.65 ft below land surface, Dec. 8, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	6.82	FEB 08, 2000	7.16	JUN 05, 2000	5.63	SEP 07, 2000	5.42
NOV 05	6.85	MAR 03	6.72	JUL 07	5.72		
DEC 03	6.03	APR 03	6.28	AUG 02	5.41		
JAN 04, 2000	6.55	MAY 04	5.95	AUG 25	6.23		
WATER YEAR 2000 HIGHEST		5.41	AUG 02, 2000		LOWEST		7.16
							FEB 08, 2000



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

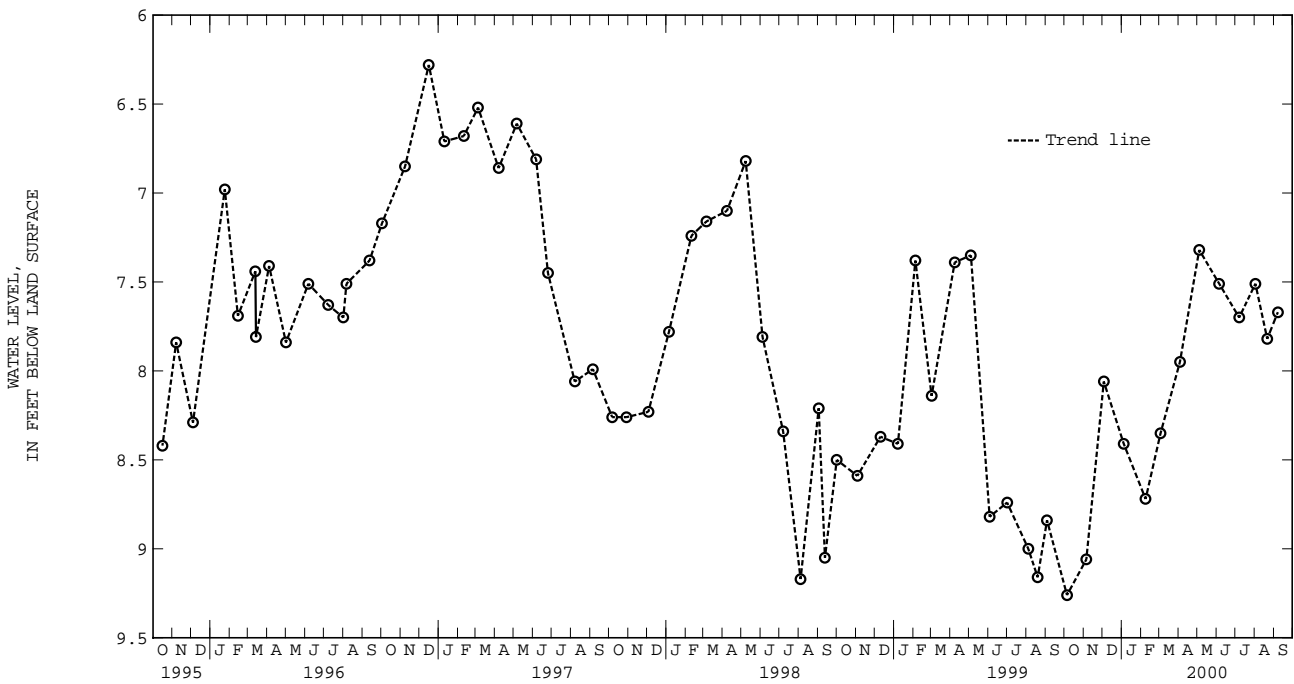
GROUND-WATER LEVELS IN MARYLAND--Continued

QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Db 37. SITE ID.--390023076174302. PERMIT NUMBER.--QA-81-0471.
 LOCATION.--Lat 39°00'23", long 76°17'43", Hydrologic Unit 02060002, near Cloverfield community park, Kent Island.
 Owner: Maryland Geological Survey.
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 250 ft; casing diameter 4 in., to 240 ft; screen diameter 4 in. from 240 to 250 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 7.1 ft above sea level.
 Measuring point: Top of casing, 2.51 ft above land surface.
 REMARKS.--Kent Island ground-water monitoring network well. Water levels are affected by local ground-water withdrawal.
 PERIOD OF RECORD.--April 1985 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.28 ft below land surface, April 9, 1993, and Dec. 16, 1996; lowest measured, 9.74 ft below land surface, Jan. 11, 1994.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	9.26	FEB 08, 2000	8.72	JUN 05, 2000	7.51	SEP 07, 2000	7.67
NOV 05	9.06	MAR 03	8.35	JUL 07	7.70		
DEC 03	8.06	APR 03	7.95	AUG 02	7.51		
JAN 04, 2000	8.41	MAY 04	7.32	21	7.82		
WATER YEAR 2000 HIGHEST		7.32	MAY 04, 2000 LOWEST		9.26	OCT 05, 1999	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA De 27. SITE ID.--390251076034401.

LOCATION.--Lat 39°02'51", long 76°03'44", Hydrologic Unit 02060002, at Sheriff's Office, Centreville.

Owner: Town of Centreville.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, artesian well, depth 665 ft; casing diameter 8 in., to unknown depth;

INSTRUMENTATION.--Monthly measurements with electric tape by Maryland Geological Survey personnel. Equipped with digital water-level recorder--60-minute recording interval, September 1999 to July 2000.

DATUM.--Elevation of land surface is 10.19 ft above sea level.

Measuring point: Top of shelter platform, 2.03 ft above land surface.

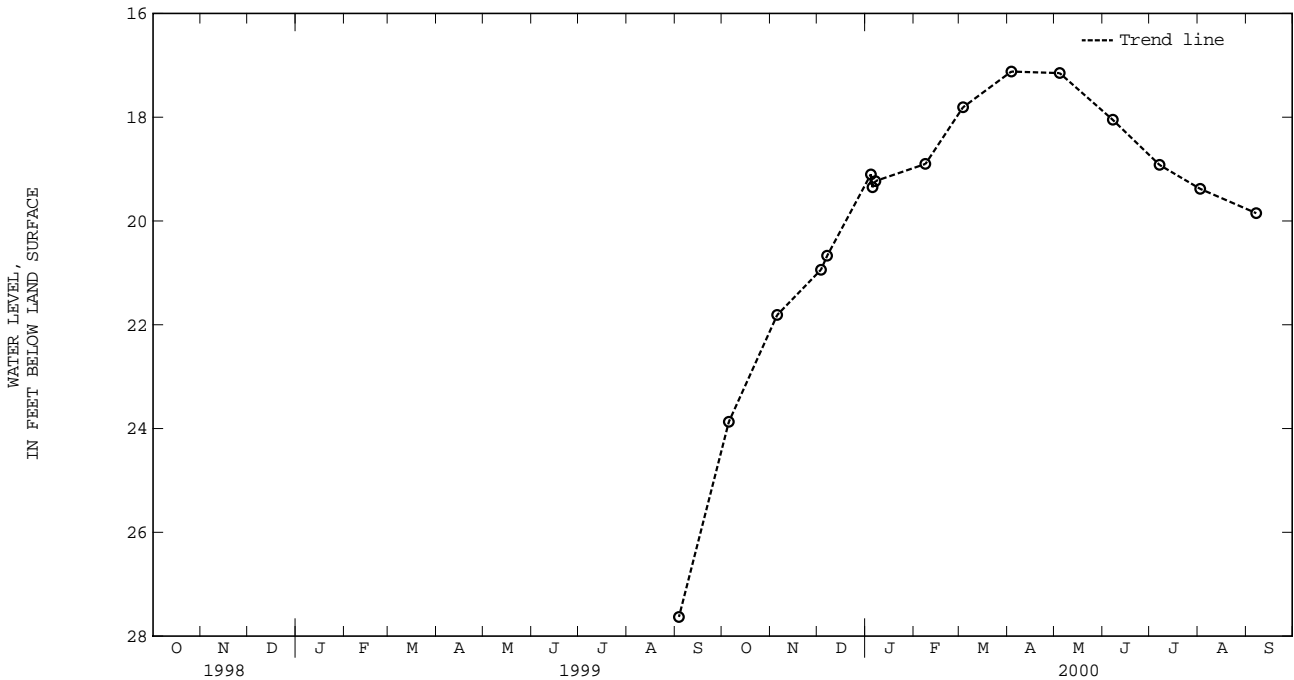
REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--September 1999 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.12 ft below land surface, April 3, 2000;
lowest measured, 27.63 ft below land surface, Sept. 3, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	23.87	JAN 04, 2000	19.10	MAR 03, 2000	17.81	JUL 07, 2000	18.92
NOV 05	21.81	05	19.35	APR 03	17.12	AUG 02	19.38
DEC 03	20.94	07	19.23	MAY 04	17.15	SEP 07	19.85
07	20.67	FEB 08	18.90	JUN 07	18.05		
WATER YEAR 2000 HIGHEST		17.12	APR 03, 2000	LOWEST		23.87	OCT 05, 1999



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

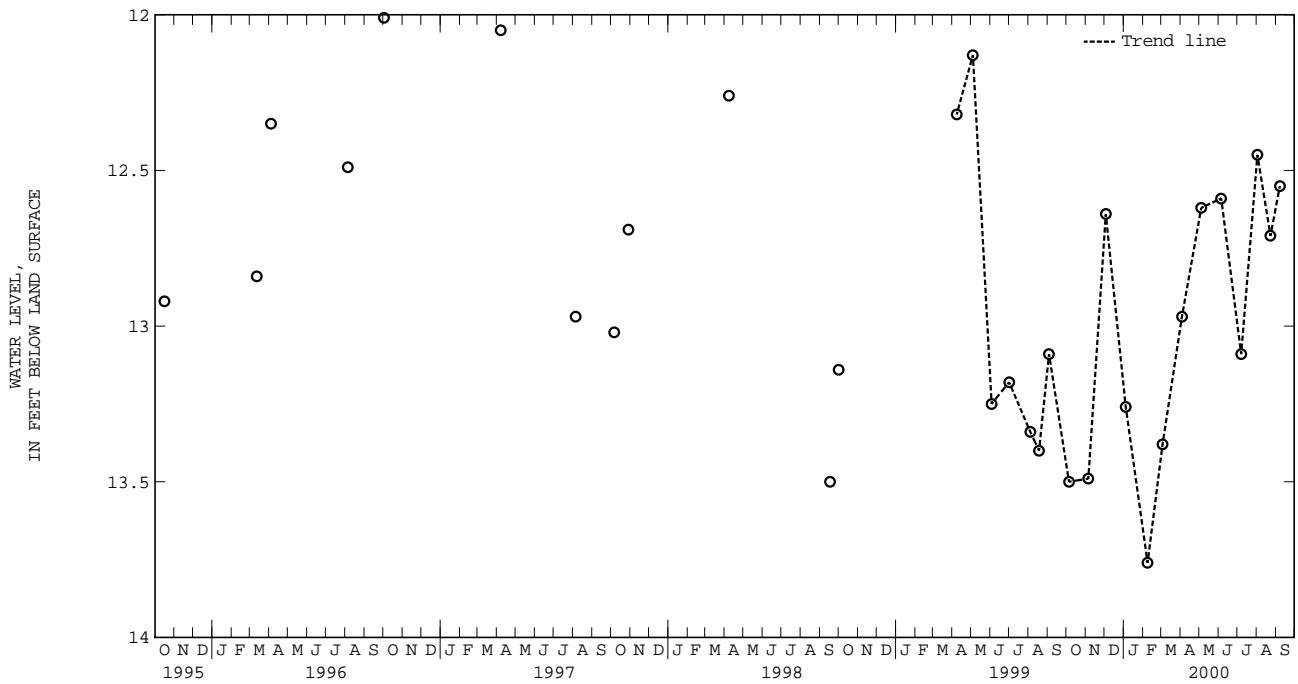
GROUND-WATER LEVELS IN MARYLAND--Continued

QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Ea 77. SITE ID.--385718076211501. PERMIT NUMBER.--QA-81-0474.
 LOCATION.--Lat 38°57'18", long 76°21'15", Hydrologic Unit 02060002, at Matapeake State Park.
 Owner: Maryland Geological Survey.
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 205 ft; casing diameter 4 in., to 195 ft; screen diameter 4 in. from 195 to 205 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Measured twice yearly from April 1985 to February 1999.
 DATUM.--Elevation of land surface is 10.8 ft above sea level.
 Measuring point: Top of casing, 2.25 ft above land surface.
 REMARKS.--Kent Island ground-water monitoring network well. Water levels are affected by local ground-water withdrawal.
 PERIOD OF RECORD.--April 1985 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.07 ft below land surface, Dec. 2, 1985; lowest measured, 13.76 ft below land surface, Feb. 8, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	13.50	FEB 08, 2000	13.76	JUN 05, 2000	12.59	SEP 07, 2000	12.55
NOV 05	13.49	MAR 03	13.38	JUL 07	13.09		
DEC 03	12.64	APR 03	12.97	AUG 02	12.45		
JAN 04, 2000	13.26	MAY 04	12.62	AUG 23	12.71		
WATER YEAR 2000 HIGHEST 12.45		AUG 02, 2000		LOWEST 13.76		FEB 08, 2000	

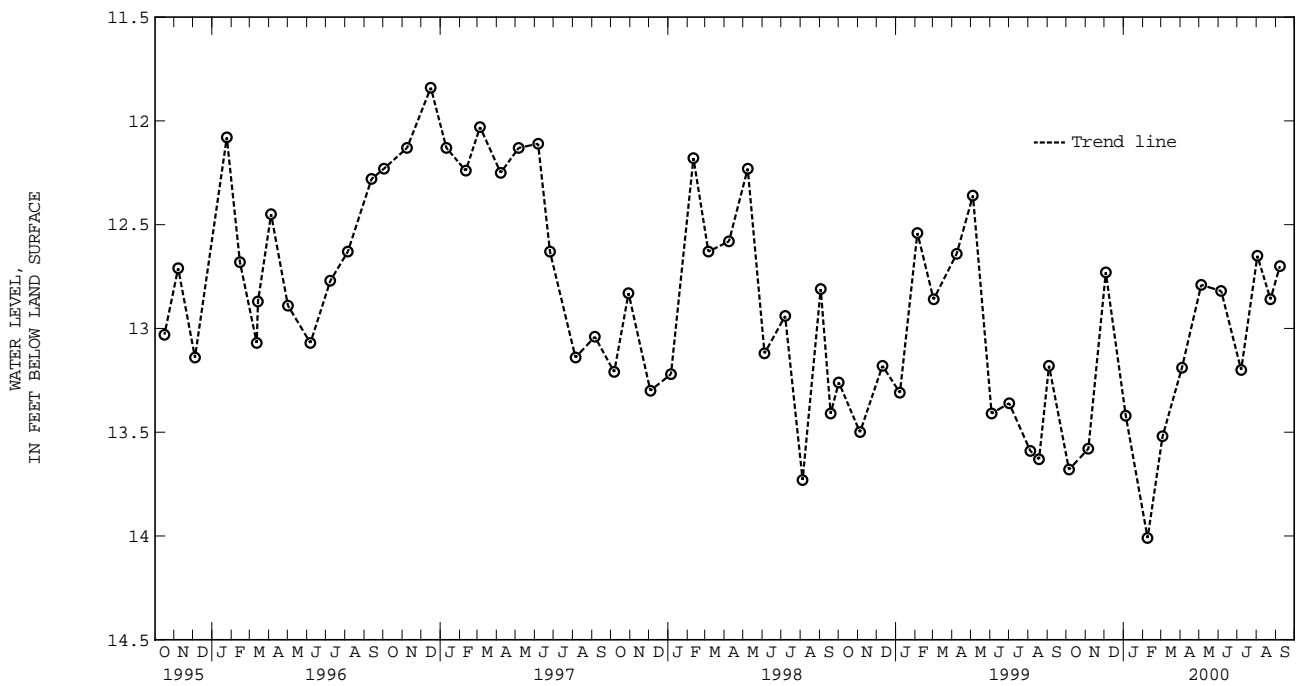


QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Ea 78. SITE ID.--385718076211502. PERMIT NUMBER.--QA-81-0474.
 LOCATION.--Lat 38°57'18", long 76°21'15", Hydrologic Unit 02060002, at Matapeake State Park.
 Owner: Maryland Geological Survey.
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 135 ft; casing diameter 4 in., to 125 ft; screen diameter 4 in. from 125 to 135 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 11.8 ft above sea level.
 Measuring point: Top of casing, 1.91 ft above land surface.
 REMARKS.--Kent Island ground-water monitoring network well. Water levels are affected by local ground-water withdrawals.
 PERIOD OF RECORD.--April 1985 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.45 ft below land surface, June 4, 1992;
 lowest measured, 14.02 ft below land surface, Jan. 11, 1994.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	13.68	FEB 08, 2000	14.01	JUN 05, 2000	12.82	SEP 07, 2000	12.70
NOV 05	13.58	MAR 03	13.52	JUL 07	13.20		
DEC 03	12.73	APR 03	13.19	AUG 02	12.65		
JAN 04, 2000	13.42	MAY 04	12.79	23	12.86		
WATER YEAR 2000 HIGHEST 12.65		AUG 02, 2000		LOWEST 14.01		FEB 08, 2000	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

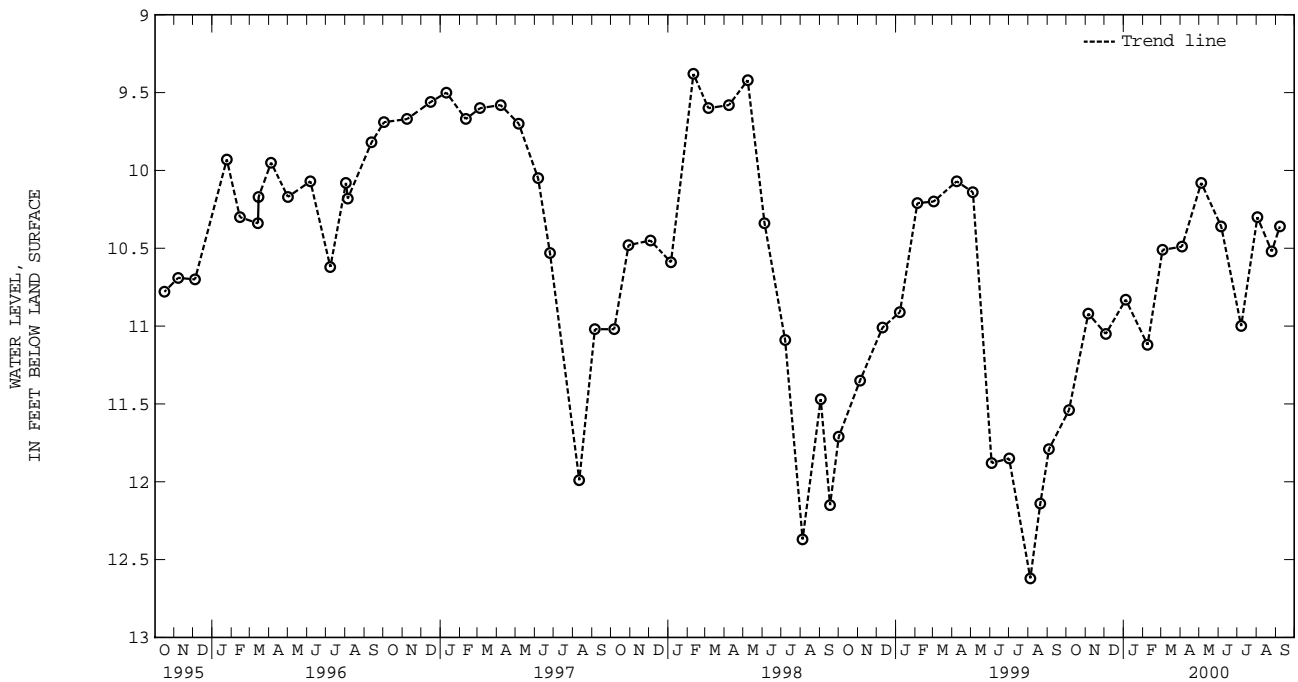
GROUND-WATER LEVELS IN MARYLAND--Continued

QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Ea 79. SITE ID.--385757076200101. PERMIT NUMBER.--QA-81-0469.
 LOCATION.--Lat 38°57'57", long 76°20'01", Hydrologic Unit 02060002, at Mowbray Park, Kent Island.
 Owner: Maryland Geological Survey.
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 298 ft; casing diameter 4 in., to 288 ft; screen diameter 4 in. from 288 to 298 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Measured twice yearly from October 1986 to April 1989.
 DATUM.--Elevation of land surface is 8.3 ft above sea level.
 Measuring point: Top of casing, 2.31 ft above land surface.
 REMARKS.--Kent Island ground-water monitoring network well. Water levels are affected by local ground-water withdrawals.
 PERIOD OF RECORD.--April 1985 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.30 ft below land surface, Dec. 2, 1985; lowest measured, 12.65 ft below land surface, Aug. 3, 1993.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	11.54	FEB 08, 2000	11.12	JUN 05, 2000	10.36	SEP 07, 2000	10.36
NOV 05	10.92	MAR 03	10.51	JUL 07	11.00		
DEC 03	11.05	APR 03	10.49	AUG 02	10.30		
JAN 04, 2000	10.83	MAY 04	10.08	AUG 25	10.52		
WATER YEAR 2000 HIGHEST 10.08		MAY 04, 2000		LOWEST 11.54		OCT 05, 1999	



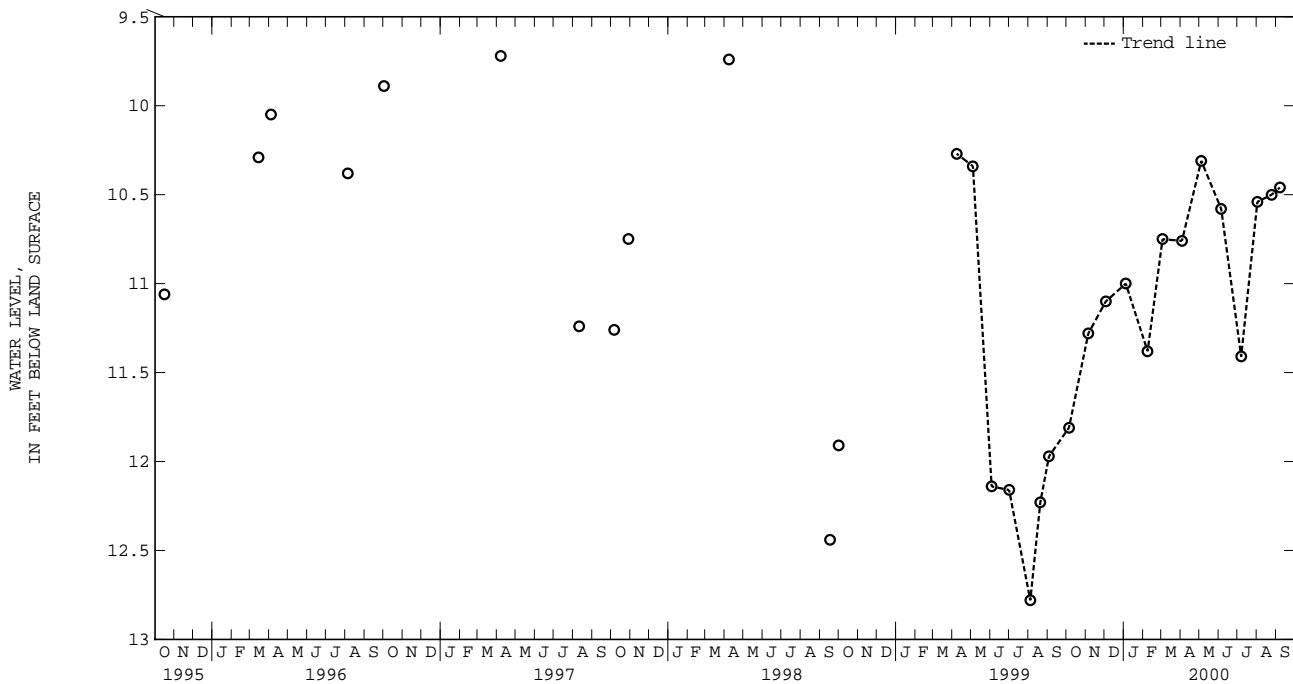
5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Ea 80. SITE ID.--385757076200102. PERMIT NUMBER.--QA-81-0469.
 LOCATION.--Lat 38°57'57", long 76°20'01", Hydrologic Unit 02060002, at Mowbray Park, Kent Island.
 Owner: Maryland Geological Survey.
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 130 ft; casing diameter 4 in., to 120 ft; screen diameter 4 in. from 120 to 130 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Measured twice yearly from October 1986 to February 1999.
 DATUM.--Elevation of land surface is 8.5 ft above sea level.
 Measuring point: Top of casing, 2.51 ft above land surface.
 REMARKS.--Kent Island ground-water monitoring network well. Water levels are affected by local ground-water withdrawals.
 PERIOD OF RECORD.--April 1985 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.45 ft below land surface, Dec. 2, 1985; lowest measured, 12.87 ft below land surface, Oct. 8, 1985.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	11.81	FEB 08, 2000	11.38	JUN 05, 2000	10.58	SEP 07, 2000	10.46
NOV 05	11.28	MAR 03	10.75	JUL 07	11.41		
DEC 03	11.10	APR 03	10.76	AUG 02	10.54		
JAN 04, 2000	11.00	MAY 04	10.31	AUG 25	10.50		
WATER YEAR 2000 HIGHEST 10.31		MAY 04, 2000		LOWEST 11.81		OCT 05, 1999	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

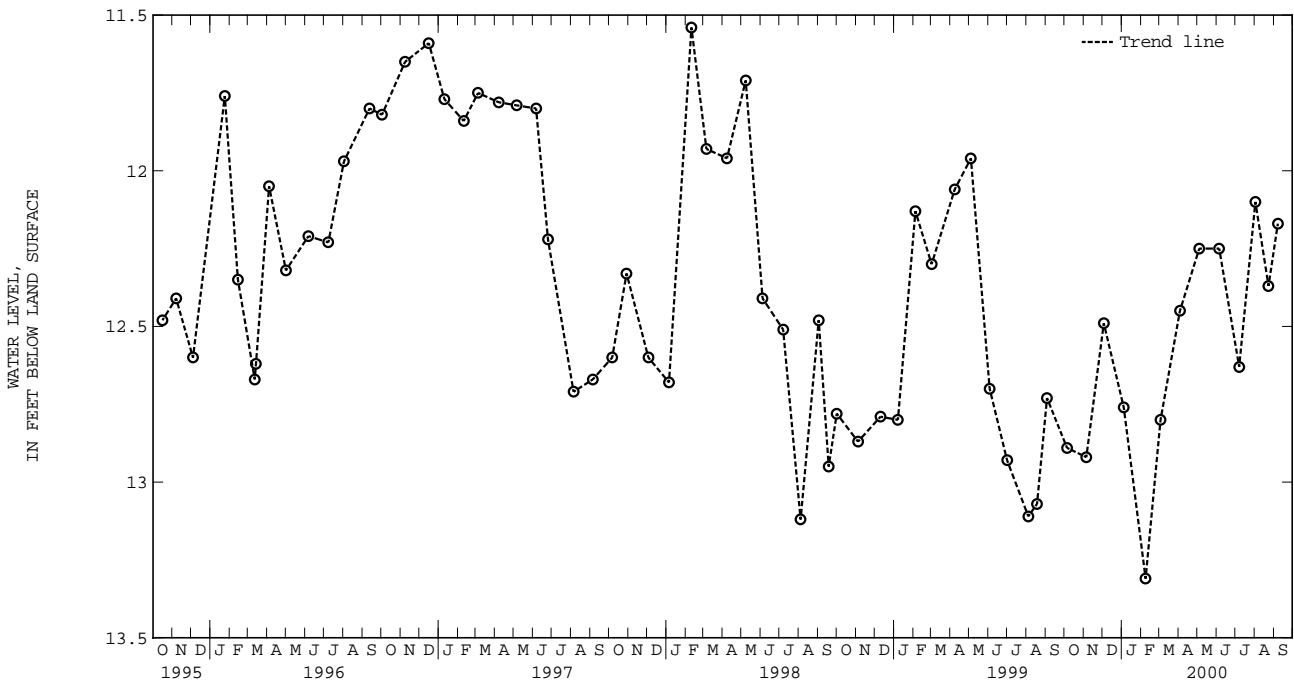
QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Ea 81. SITE ID.--385718076211503. PERMIT NUMBER.--QA-81-0474.
 LOCATION.--Lat 38°57'18", long 76°21'15", Hydrologic Unit 02060002, at Matapeake State Park.
 Owner: Maryland Geological Survey.
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 310 ft; casing diameter 4 in., to 300 ft; screen diameter 4 in. from 300 to 310 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 12.4 ft above sea level, from topographic map.
 Measuring point: Top of casing, 2.16 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawals.
 PERIOD OF RECORD.--April 1985 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.54 ft below land surface, Dec. 2, 1985;
 lowest measured, 13.88 ft below land surface, Aug. 3, 1993.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	12.89	FEB 08, 2000	13.31	JUN 05, 2000	12.25	SEP 07, 2000	12.17
NOV 05	12.92	MAR 03	12.80	JUL 07	12.63		
DEC 03	12.49	APR 03	12.45	AUG 02	12.10		
JAN 04, 2000	12.76	MAY 04	12.25	23	12.37		

WATER YEAR 2000 HIGHEST 12.10 AUG 02, 2000 LOWEST 13.31 FEB 08, 2000



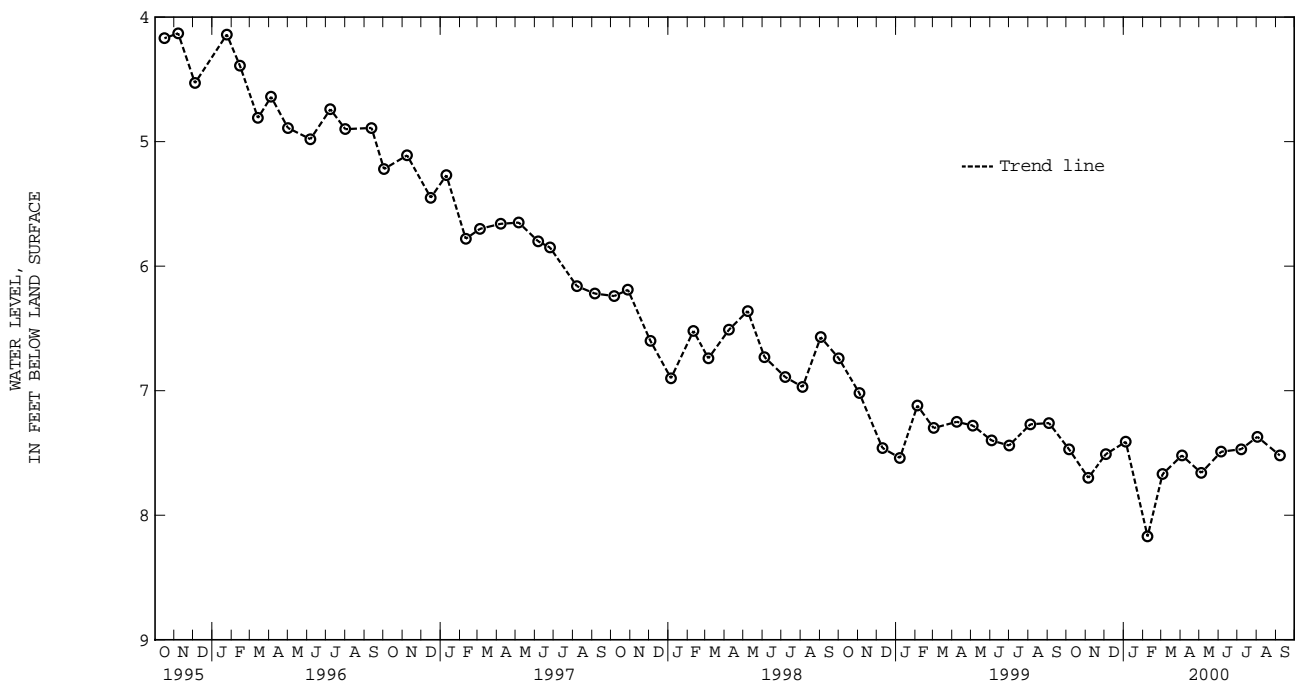
5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Eb 110. SITE ID.--385751076171603. PERMIT NUMBER.--QA-73-2979.
 LOCATION.--Lat 38°57'51", long 76°17'16", Hydrologic Unit 02060002, near Chester, Kent Island.
 Owner: U.S. Geological Survey.
 AQUIFER.--Patuxent Formation of Lower Cretaceous age. Aquifer code: 217PTXN.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 2,485 ft; casing diameter 4 in., to 2,413 ft, 2,423 to 2,465 ft and 2,475 to 2,485 ft; screen diameter 4 in., from 2,413 to 2,423 ft, and 2,465 to 2,475 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Measured twice yearly from January 1980 to October 1989.
 DATUM.--Elevation of land surface is 13.98 ft above sea level, from topographic map.
 Measuring point: Top of casing, 3.36 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by regional ground-water withdrawal.
 PERIOD OF RECORD.--January 1980 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.99 ft above land surface, Jan. 21, 1980; lowest measured, 8.17 ft below land surface, Feb. 8, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	7.47	JAN 04, 2000	7.41	APR 03, 2000	7.52	JUL 07, 2000	7.47
NOV 05	7.70	FEB 08	8.17	MAY 04	7.66	AUG 02	7.37
DEC 03	7.51	MAR 03	7.67	JUN 05	7.49	SEP 07	7.52
WATER YEAR 2000 HIGHEST		7.37	AUG 02, 2000		LOWEST		8.17
							FEB 08, 2000



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

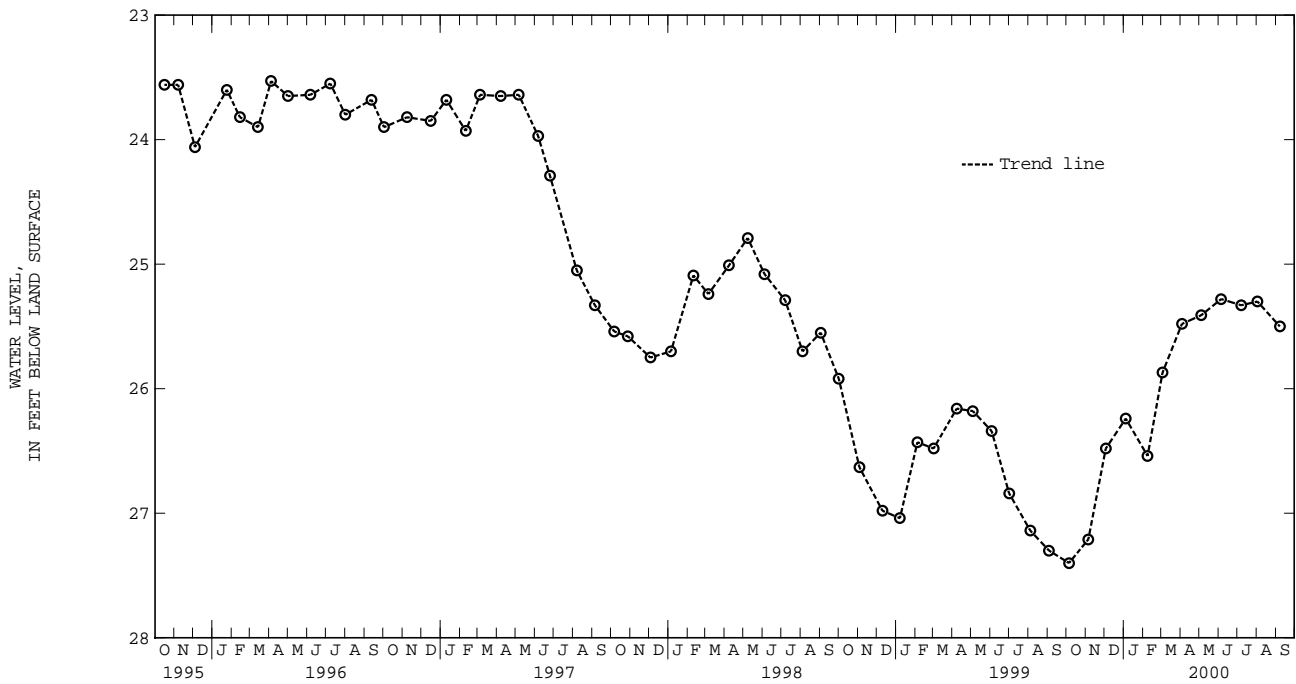
QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Eb 111. SITE ID.--385751076171601. PERMIT NUMBER.--QA-73-3122.
 LOCATION.--Lat 38°57'51", long 76°17'16", Hydrologic Unit 02060002, near Chester, Kent Island.
 Owner: U.S. Geological Survey.
 AQUIFER.--Upper Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 985 ft; casing diameter 4 in., to 955 ft, and 965 to 975 ft; screen diameter 4 in., from 955 to 965 ft, and 975 to 985 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Twice yearly measurements from April 1984 to September 1989.
 DATUM.--Elevation of land surface is 14.03 ft above sea level.
 Measuring point: Top of casing, 1.41 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.
 PERIOD OF RECORD.--December 1979, April 1984 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.02 ft below land surface, Jan. 21, 1980;
 lowest measured, 27.40 ft below land surface, Oct. 5, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	27.40	JAN 04, 2000	26.24	APR 03, 2000	25.48	JUL 07, 2000	25.33
NOV 05	27.21	FEB 08	26.54	MAY 04	25.41	AUG 02	25.30
DEC 03	26.48	MAR 03	25.87	JUN 05	25.28	SEP 07	25.50

WATER YEAR 2000 HIGHEST 25.28 JUN 05, 2000 LOWEST 27.40 OCT 05, 1999



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

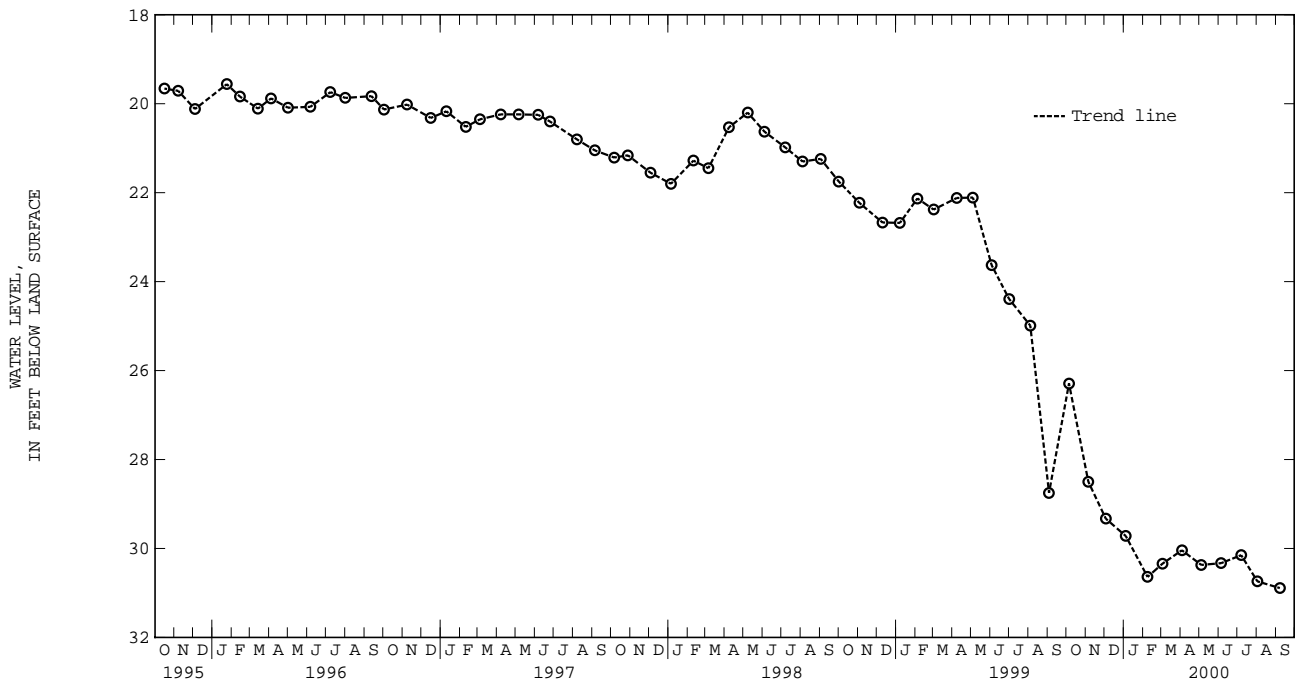
QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Eb 112. SITE ID.--385751076171602. PERMIT NUMBER.--QA-73-3123.
 LOCATION.--Lat 38°57'51", long 76°17'16", Hydrologic Unit 02060002, near Chester, Kent Island.
 Owner: U.S. Geological Survey.
 AQUIFER.--Lower Patapsco aquifer of the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCL.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 1,679 ft; casing diameter 4 in., to 1,652 ft, and 1,662 to 1,669 ft; screen diameter 4 in., from 1,652 to 1,662 ft, and 1,669 to 1,679 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Twice yearly measurements from January 1980 to September 1980.
 DATUM.--Elevation of land surface is 13.92 ft above sea level.
 Measuring point: Top of casing, 1.36 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal.
 PERIOD OF RECORD.--January 1980 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.69 ft below land surface, Jan. 21, 1980; lowest measured, 30.89 ft below land surface, Sept. 7, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	26.29	JAN 04, 2000	29.72	APR 03, 2000	30.04	JUL 07, 2000	30.15
NOV 05	28.50	FEB 08	30.64	MAY 04	30.37	AUG 02	30.74
DEC 03	29.33	MAR 03	30.34	JUN 05	30.33	SEP 07	30.89

WATER YEAR 2000 HIGHEST 26.29 OCT 05, 1999 LOWEST 30.89 SEP 07, 2000



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

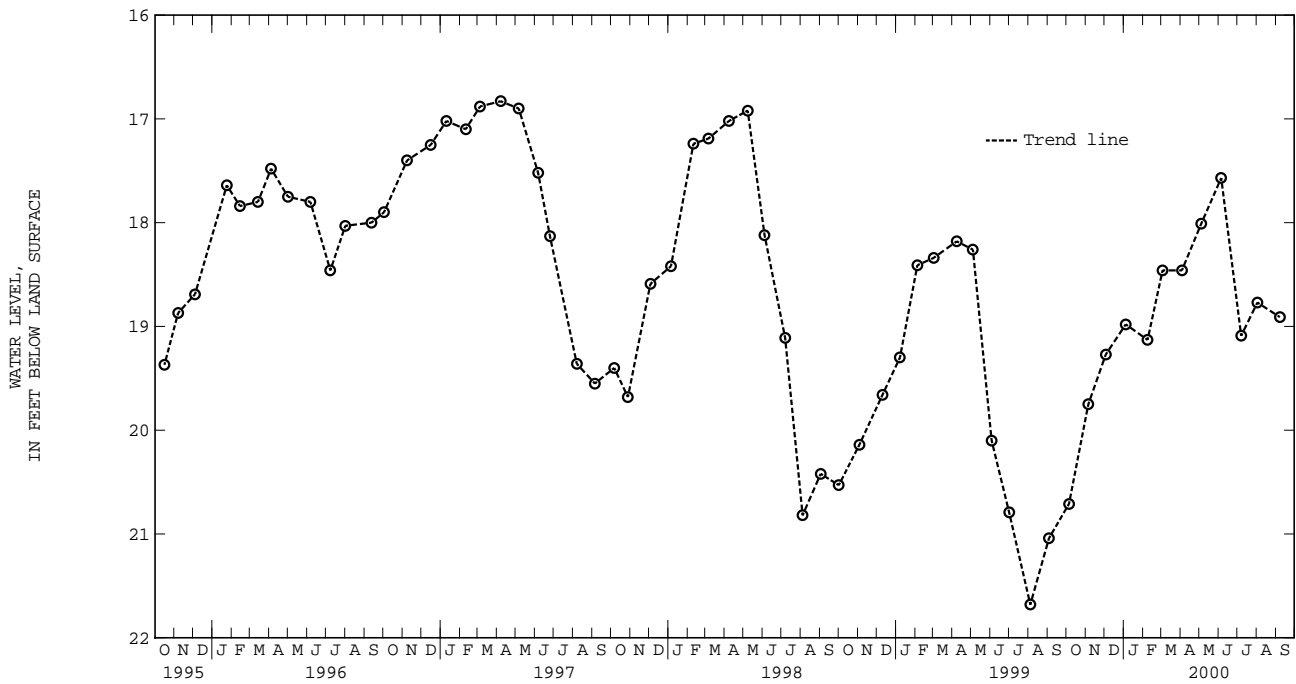
GROUND-WATER LEVELS IN MARYLAND--Continued

QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Eb 113. SITE ID.--385748076172001. PERMIT NUMBER.--QA-73-3172.
 LOCATION.--Lat 38°57'48", long 76°17'20", Hydrologic Unit 02060001, near Chester, Kent Island.
 Owner: U.S. Geological Survey.
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 216 ft; casing diameter 6 in., to 176 ft; screen diameter 6 in. from 176 to 216 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder from June 30, 1986 to October 2, 1994.
 DATUM.--Elevation of land surface is 11.34 ft above sea level.
 Measuring Point: Top of casing, 2.60 ft above land surface.
 REMARKS.--Kent Island ground-water monitoring network well. Water levels are affected by local ground-water withdrawal.
 PERIOD OF RECORD.--October 1982 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.05 ft below land surface, April 18, 1989; lowest measured, 21.68 ft below land surface, Aug. 4, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	20.71	JAN 04, 2000	18.98	APR 03, 2000	18.46	JUL 07, 2000	19.09
NOV 05	19.75	FEB 08	19.13	MAY 04	18.01	AUG 02	18.77
DEC 03	19.27	MAR 03	18.46	JUN 05	17.57	SEP 07	18.91
WATER YEAR 2000 HIGHEST 17.57		JUN 05, 2000		LOWEST 20.71		OCT 05, 1999	

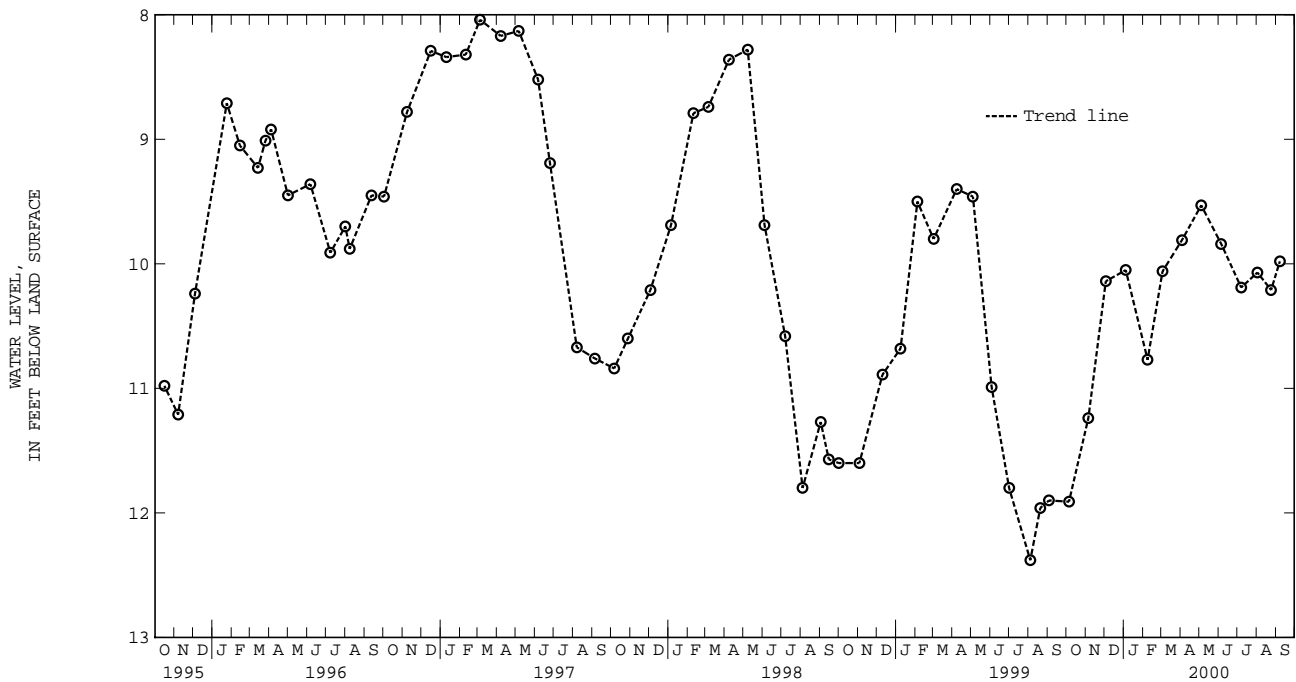


QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Eb 155. SITE ID.--385843076155302. PERMIT NUMBER.--QA-81-0470.
 LOCATION.--Lat 38°58'43", long 76°15'53", Hydrologic Unit 02060002, at north end of Piney Creek Rd., Kent Island.
 Owner: Maryland Geological Survey.
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 245 ft; casing diameter 4 in., to 235 ft; screen diameter 4 in. from 235 to 245 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Measured twice yearly from June 1986 to April 1989.
 DATUM.--Elevation of land surface is 3.9 ft above sea level.
 Measuring point: Top of casing, 2.50 ft above land surface.
 REMARKS.--Kent Island ground-water monitoring network well. Water levels are affected by local ground-water withdrawal.
 PERIOD OF RECORD.--April 1985 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.60 ft below land surface, Dec. 2, 1985; lowest measured, 12.38 ft below land surface, Aug. 4, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	11.91	FEB 08, 2000	10.77	JUN 05, 2000	9.84	SEP 07, 2000	9.98
NOV 05	11.24	MAR 03	10.06	JUL 07	10.19		
DEC 03	10.14	APR 03	9.81	AUG 02	10.07		
JAN 04, 2000	10.05	MAY 04	9.53	AUG 24	10.21		
WATER YEAR 2000 HIGHEST 9.53 MAY 04, 2000		LOWEST 11.91 OCT 05, 1999					



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

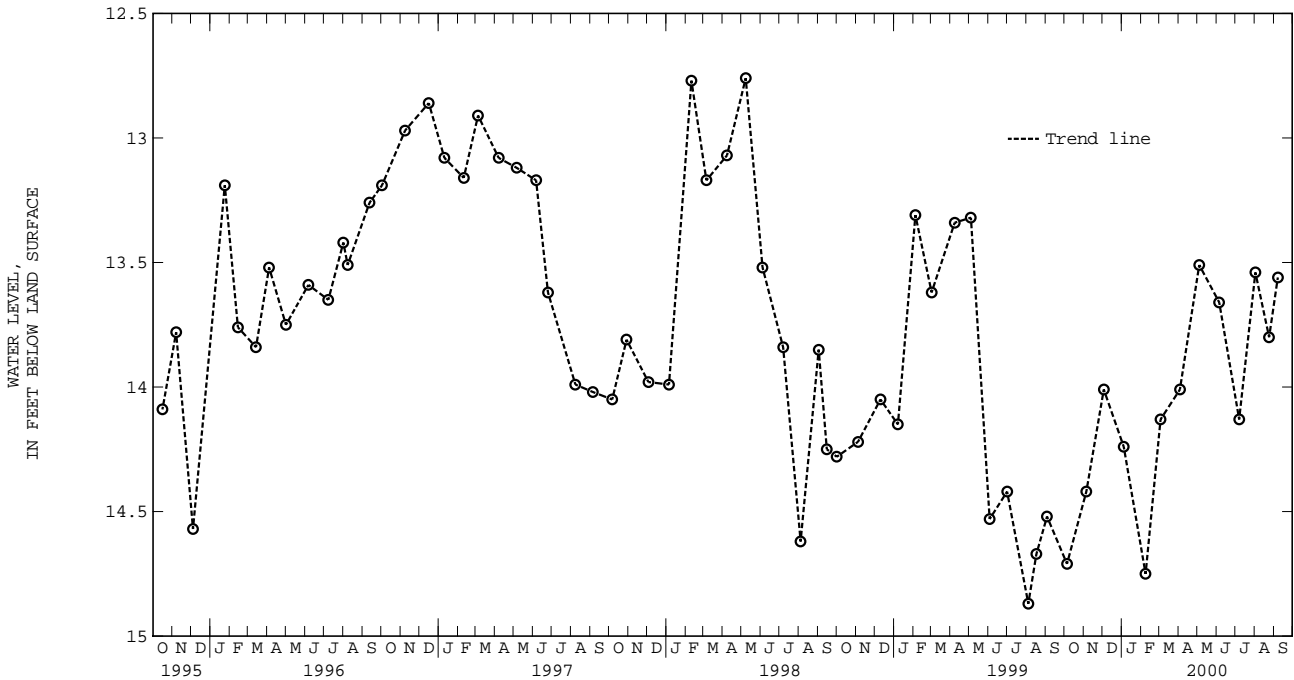
GROUND-WATER LEVELS IN MARYLAND--Continued

QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Eb 156. SITE ID.--385852076195201. PERMIT NUMBER.--QA-81-0475.
 LOCATION.--Lat 38°58'52", long 76°19'52", Hydrologic Unit 02060002, north of US Rt. 50, 0.7 mi west of intersection MD Rt. 8, Kent Island.
 Owner: Maryland Geological Survey.
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 220 ft; casing diameter 4 in., to 210 ft; screen diameter 4 in. from 210 to 220 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Measured twice yearly from September 1987 to April 1989.
 DATUM.--Elevation of land surface is 12.01 ft above sea level.
 Measuring point: Top of casing, 2.21 ft above land surface.
 REMARKS.--Kent Island ground-water monitoring network well. Water levels are affected by local ground-water withdrawal.
 PERIOD OF RECORD.--April 1985 to June 1986, September 1987 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.97 ft below land surface, Aug. 1, 1990; lowest measured, 15.01 ft below land surface, Jan. 11, 1994.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	14.71	FEB 08, 2000	14.75	JUN 05, 2000	13.66	SEP 07, 2000	13.56
NOV 05	14.42	MAR 03	14.13	JUL 07	14.13		
DEC 03	14.01	APR 03	14.01	AUG 02	13.54		
JAN 04, 2000	14.24	MAY 04	13.51	AUG 24	13.80		
WATER YEAR 2000 HIGHEST 13.51		MAY 04, 2000		LOWEST 14.75		FEB 08, 2000	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Eb 157. SITE ID.--385852076195202. PERMIT NUMBER.--QA-81-0475.
 LOCATION.--Lat 38°58'52", long 76°19'52", Hydrologic Unit 02060002, north of US Rt. 50, 0.7 mi west of intersection with MD Rt. 8, Kent Island.

Owner: Maryland Geological Survey.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 120 ft; casing diameter 4 in., to 110 ft; screen diameter 4 in. from 110 to 120 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel from May 1989 to November 1991, March 1999 to current year. Measured twice yearly from March 1988 to April 1989, April 1992 to February 1999.

DATUM.--Elevation of land surface is 11.92 ft above sea level, from topographic map.

Measuring point: Top of casing, 2.51 ft above land surface.

REMARKS.--Kent Island ground-water monitoring network well. Water levels are affected by local ground-water withdrawal.

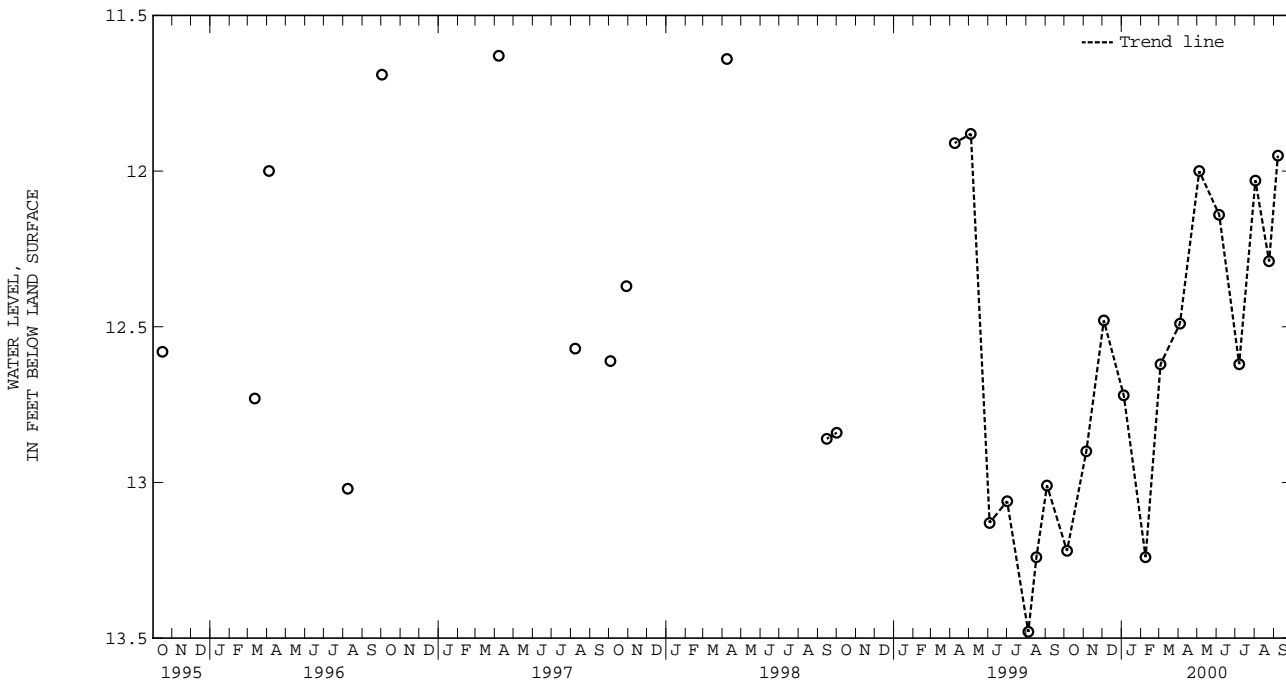
PERIOD OF RECORD.--April 1985 to June 1986, March 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.40 ft below land surface, Dec. 2, 1985; lowest measured, 13.63 ft below land surface, Aug. 1, 1990.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	13.22	FEB 08, 2000	13.24	JUN 05, 2000	12.14	SEP 07, 2000	11.95
NOV 05	12.90	MAR 03	12.62	JUL 07	12.62		
DEC 03	12.48	APR 03	12.49	AUG 02	12.03		
JAN 04, 2000	12.72	MAY 04	12.00	AUG 24	12.29		

WATER YEAR 2000 HIGHEST 11.95 SEP 07, 2000 LOWEST 13.24 FEB 08, 2000



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Ec 1. SITE ID.--385756076105301.

LOCATION.--Lat 38°57'56", long 76°10'53", Hydrologic Unit 02060002, near Grasonville, south side of old U.S. Rt. 50.

Owner: Maryland State Highway Administration.

AQUIFER.--Kent Island Formation of Pleistocene age. Aquifer code: 112KILD.

WELL CHARACTERISTICS.--Drilled, unused, water-table well, depth 21 ft; casing diameter 1.25 in., to 21 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 20 ft above sea level, from topographic map.

Measuring point: Top of 2 in. coupling, 0.27 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

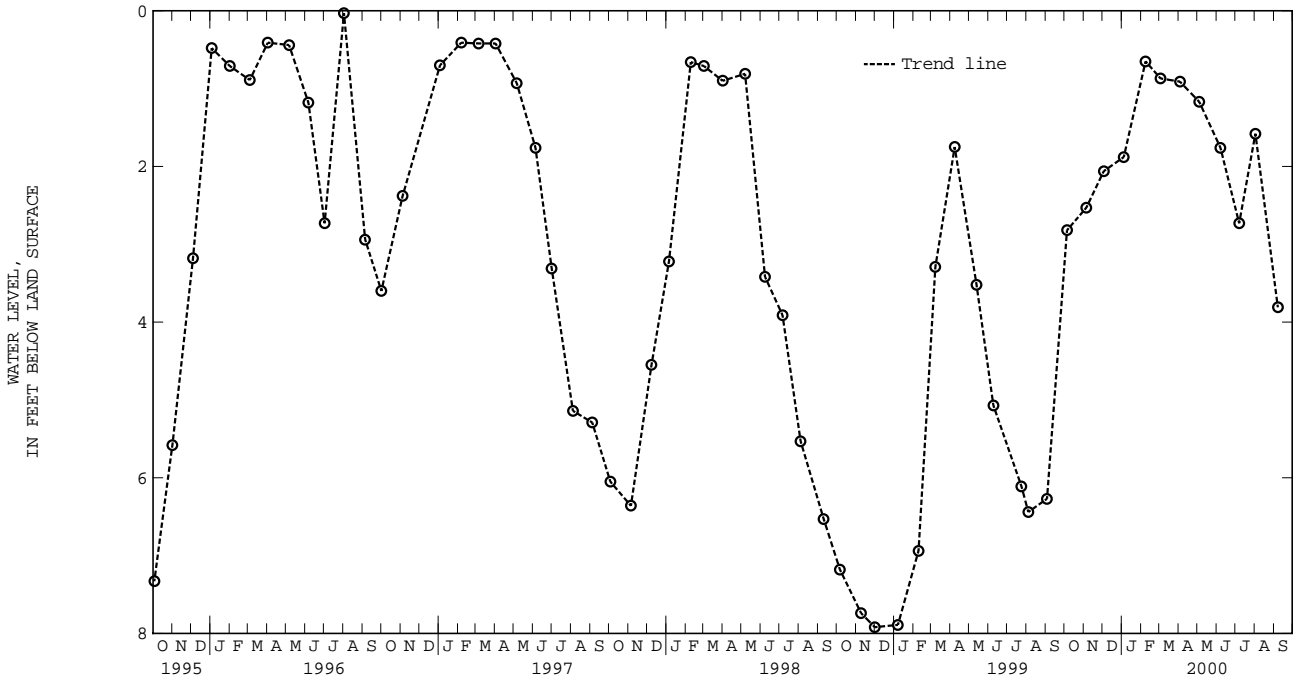
PERIOD OF RECORD.--September 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.03 ft below land surface, Aug. 2, 1996;

lowest measured, 8.46 ft below land surface, Jan. 7, 1988.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	2.82	JAN 04, 2000	1.88	APR 03, 2000	.91	JUL 07, 2000	2.73
NOV 05	2.53	FEB 08	.65	MAY 04	1.17	AUG 02	1.58
DEC 03	2.06	MAR 03	.87	JUN 07	1.76	SEP 07	3.81
WATER YEAR 2000 HIGHEST		.65 FEB 08, 2000	LOWEST		3.81 SEP 07, 2000		



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Ef 29. SITE ID.--385534075573601. PERMIT NUMBER.--QA-81-1593.

LOCATION.--Lat 38°55'38", long 75°57'40", Hydrologic Unit 02060005, Tuckahoe State Park.

Owner: Md. Dept. of Natural Resources, Fisheries Division.

AQUIFER.--Upper Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 1,325 ft; casing diameter 14 in., to 500 ft, and 8 in. from 500 to 1,110 ft, 1,120 to 1,135 ft, 1,180 to 1,195 ft, 1,210 to 1,230 ft, 1,270 to 1,285 ft, and 1,315 to 1,325 ft, screen diameter 8 in., from 1,110 to 1,120 ft, 1,135 to 1,180 ft, 1,195 to 1,210 ft, 1,230 to 1,270 ft, and 1,285 to 1,315 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 61.69 ft above sea level.

Measuring point: Top of 1 1/2 in. riser pipe, 3.80 ft above land surface.

REMARKS.--Maryland Water-level Network observation well. Water levels are affected by regional ground-water withdrawal.

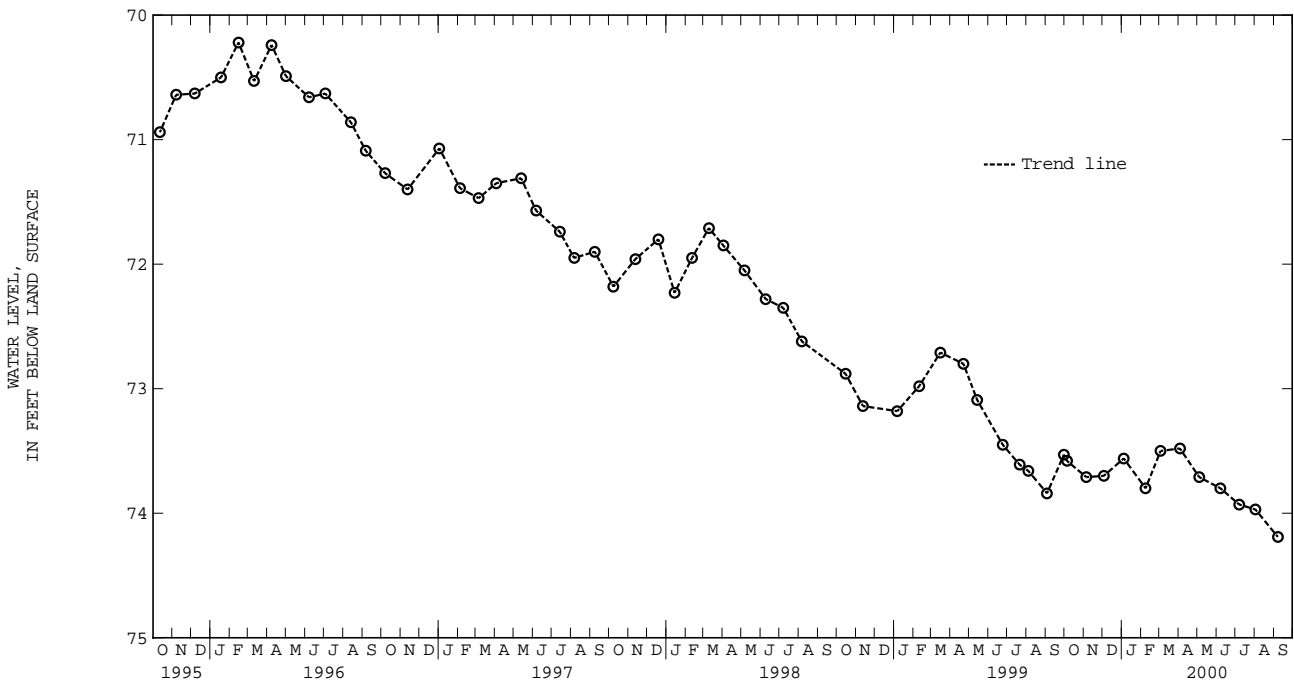
PERIOD OF RECORD.-- June 1986 to December 1986, November 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 62.30 ft below land surface, Aug. 27, 1986; lowest measured, 74.19 ft below land surface, Sept. 7, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	73.58	JAN 04, 2000	73.56	APR 03, 2000	73.48	JUL 07, 2000	73.93
NOV 05	73.71	FEB 08	73.80	MAY 04	73.71	AUG 02	73.97
DEC 03	73.70	MAR 03	73.50	JUN 07	73.80	SEP 07	74.19

WATER YEAR 2000 HIGHEST 73.48 APR 03, 2000 LOWEST 74.19 SEP 07, 2000



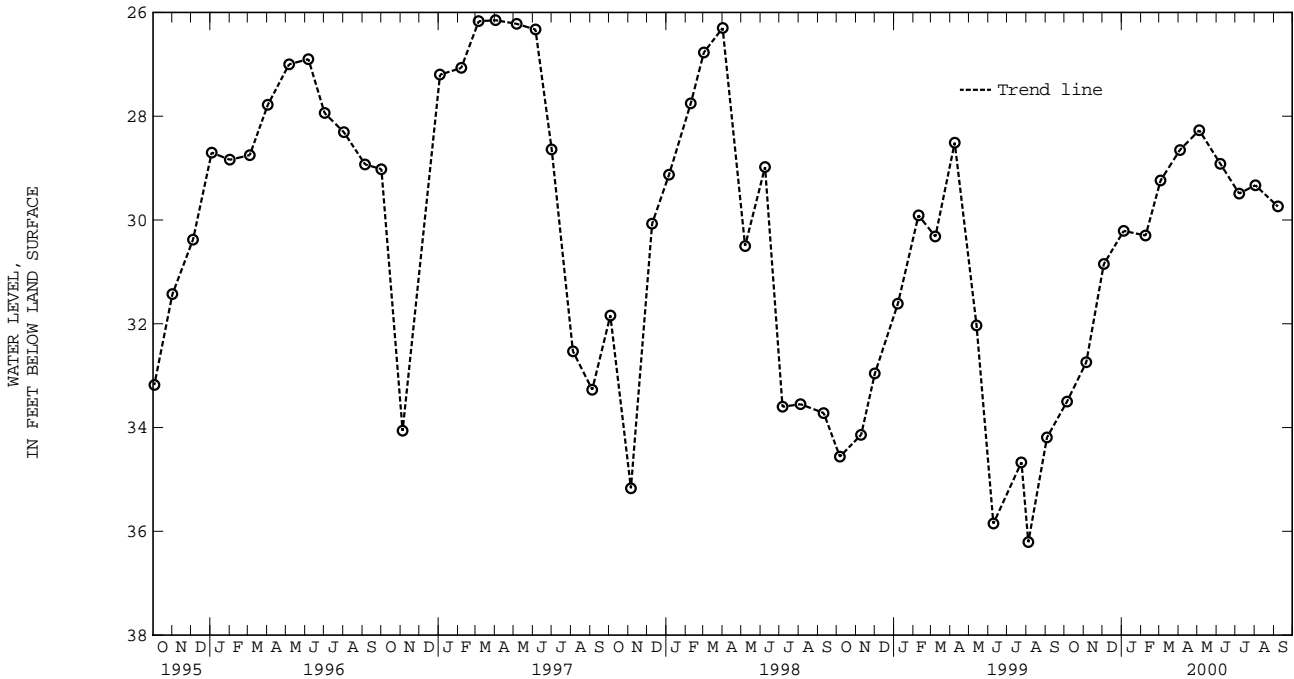
GROUND-WATER LEVELS IN MARYLAND--Continued

QUEEN ANNES COUNTY--Continued

WELL NUMBER.--QA Fc 7. SITE ID.--385429076120201. PERMIT NUMBER.--QA-73-2191.
 LOCATION.--Lat 38°54'29", long 76°12'02", Hydrologic Unit 02060002, at Prospect Plantation.
 Owner: Maryland Community Developers Incorporated.
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 356 ft; casing diameter 4 in., to 336 ft; screen diameter 2 in. from 336 to 356 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 10 ft above sea level, from topographic map.
 Measuring point: Top of casing at land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawals.
 PERIOD OF RECORD.--February 1980 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.77 ft below land surface, March 3, 1983; lowest measured, 36.21 ft below land surface, Aug. 4, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	33.50	JAN 04, 2000	30.21	APR 03, 2000	28.65	JUL 07, 2000	29.49
NOV 05	32.74	FEB 08	30.30	MAY 04	28.27	AUG 02	29.33
DEC 03	30.85	MAR 03	29.24	JUN 07	28.92	SEP 07	29.74
WATER YEAR 2000 HIGHEST		28.27	MAY 04, 2000		LOWEST	33.50	OCT 05, 1999



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

ST. MARYS COUNTY

WELL NUMBER.--SM Bb 15. SITE ID.--382838076470101. PERMIT NUMBER.--SM-73-3430.

LOCATION.--Lat 38°28'38", long 76°47'01", Hydrologic Unit 02070011, at Charlotte Hall Veterans Home.

Owner: U.S. Geological Survey.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 460 ft; casing diameter 4 in., to 441 ft; casing diameter 2 in. from 441 to 450 ft; screen diameter 2 in. from 450 to 460 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 165.30 ft above sea level.

Measuring point: Top of casing, 2.10 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal.

PERIOD OF RECORD.--August 1979 to current year.

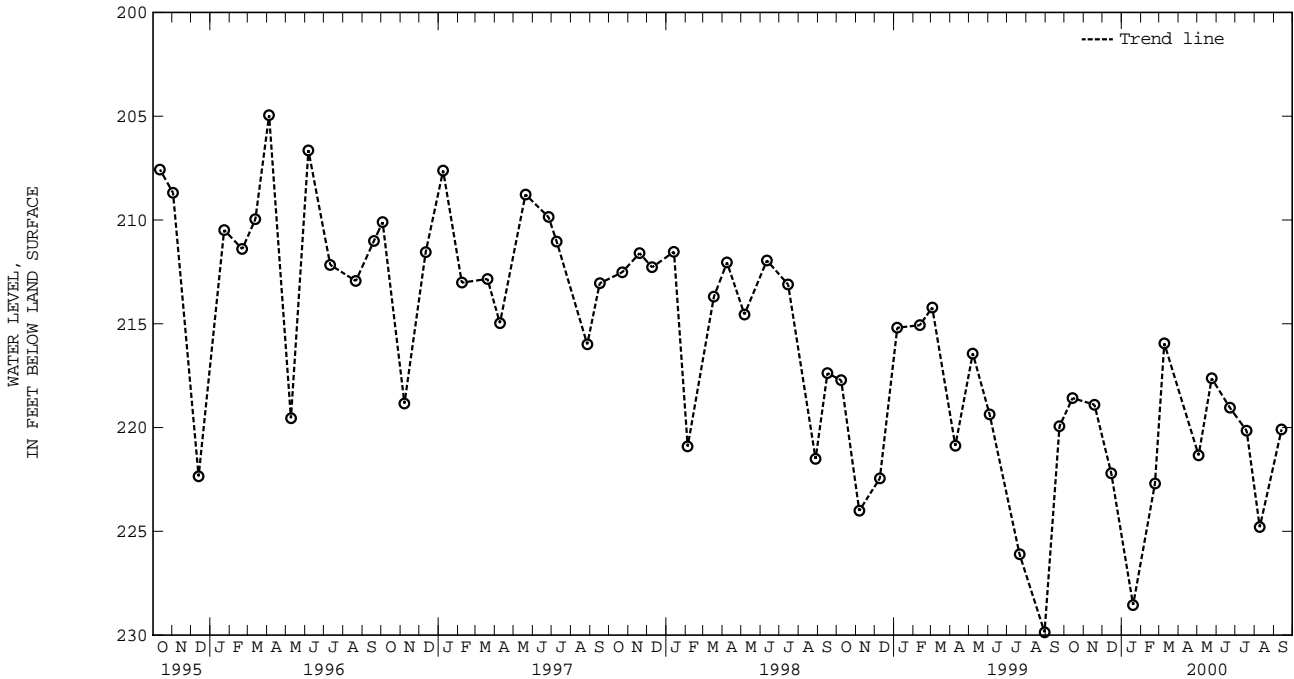
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 159.76 ft below land surface, Aug. 10, 1979, and Aug. 31, 1979;

lowest measured, 229.86 ft below land surface, Aug. 30, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14, 1999	218.58	JAN 19, 2000	228.55	MAY 03, 2000	221.34	JUL 19, 2000	220.16
NOV 18	218.90	FEB 23	222.70	24	217.63	AUG 09	224.80
DEC 15	222.21	MAR 09	215.95	JUN 22	219.04	SEP 13	220.09

WATER YEAR 2000 HIGHEST 215.95 MAR 09, 2000 LOWEST 228.55 JAN 19, 2000



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Bb 22. SITE ID.--382838076470102. PERMIT NUMBER.--SM-73-3787.

LOCATION.--Lat 38°28'38", long 76°47'01", Hydrologic Unit 02070011, at Charlotte Hall Veterans Home.

Owner: U.S. Geological Survey.

AQUIFER.--Piney Point Formation of Middle Eocene age. A quifer code: 124PNPN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 218 ft; casing diameter 4 in., to 210 ft; screen diameter 2 in. from 210 to 218 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 165.31 ft above sea level.

Measuring point: Top of casing, 1.55 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal. On July 12, 1989, the water-level measured 27.95 ft below land surface; this decline was due to a nearby production well pump test.

PERIOD OF RECORD.--July 1980 to current year.

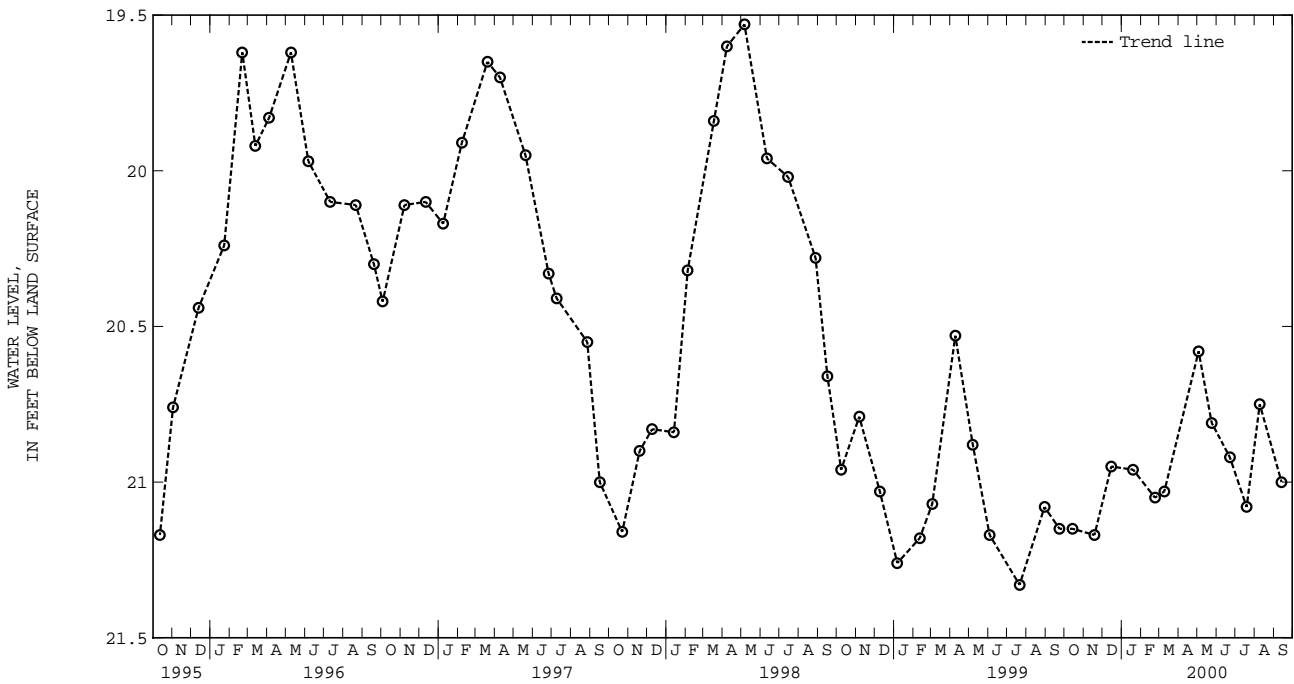
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.27 ft below land surface, July 9, 1980;

lowest measured, 21.33 ft below land surface, July 21, 1999--See Remarks.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14, 1999	21.15	JAN 19, 2000	20.96	MAY 03, 2000	20.58	JUL 19, 2000	21.08
NOV 18	21.17	FEB 23	21.05	24	20.81	AUG 09	20.75
DEC 15	20.95	MAR 09	21.03	JUN 22	20.92	SEP 13	21.00

WATER YEAR 2000 HIGHEST 20.58 MAY 03, 2000 LOWEST 21.17 NOV 18, 1999



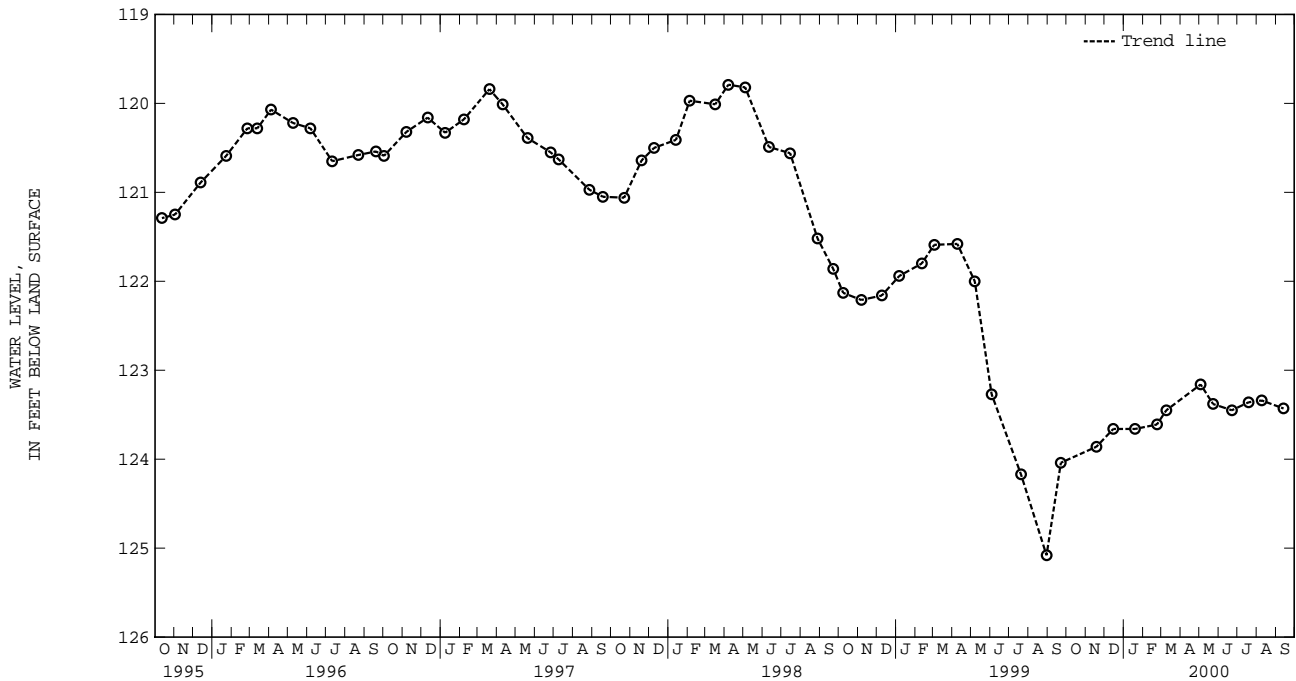
5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Dd 46. SITE ID.--381616076364701. PERMIT NUMBER.--SM-73-1992.
 LOCATION.--Lat 38°16'16", long 76°36'47", Hydrologic Unit 02070011, at Leonardtown Senior High School, Redgate.
 Owner: U.S. Geological Survey.
 AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 296 ft; casing diameter 6 in., to 150 ft;
 casing diameter 2 in. from 150 to 286 ft; screen diameter 2 in. from 286 to 296 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 118.84 ft above sea level.
 Measuring point: Top of casing, 2.90 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal
 PERIOD OF RECORD.--October 1976 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 109.36 ft below land surface, July 9, 1979;
 lowest measured, 125.08 ft below land surface, Aug. 30, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 18, 1999	123.86	FEB 23, 2000	123.61	MAY 23, 2000	123.38	AUG 09, 2000	123.34
DEC 15	123.66	MAR 09	123.45	JUN 22	123.45	SEP 13	123.43
JAN 19, 2000	123.66	MAY 03	123.16	JUL 19	123.36		
WATER YEAR 2000 HIGHEST 123.16		MAY 03, 2000		LOWEST 123.86		NOV 18, 1999	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Dd 49. SITE ID.--381616076364702. PERMIT NUMBER.--SM-73-3081.

LOCATION.--Lat 38°16'16", long 76°36'47", Hydrologic Unit 02070011, at Leonardtown Senior High School, Redgate.

Owner: U.S. Geological Survey.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 619 ft; casing diameter 6 in., to 46 ft; casing diameter 4 in., to 279 ft; casing diameter 1.5 in. from 279 to 534 ft and 544 to 619 ft; screen diameter 3 in. from 534 to 544 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 118.94 ft above sea level.

Measuring point: Top of casing, 0.40 ft above land surface.

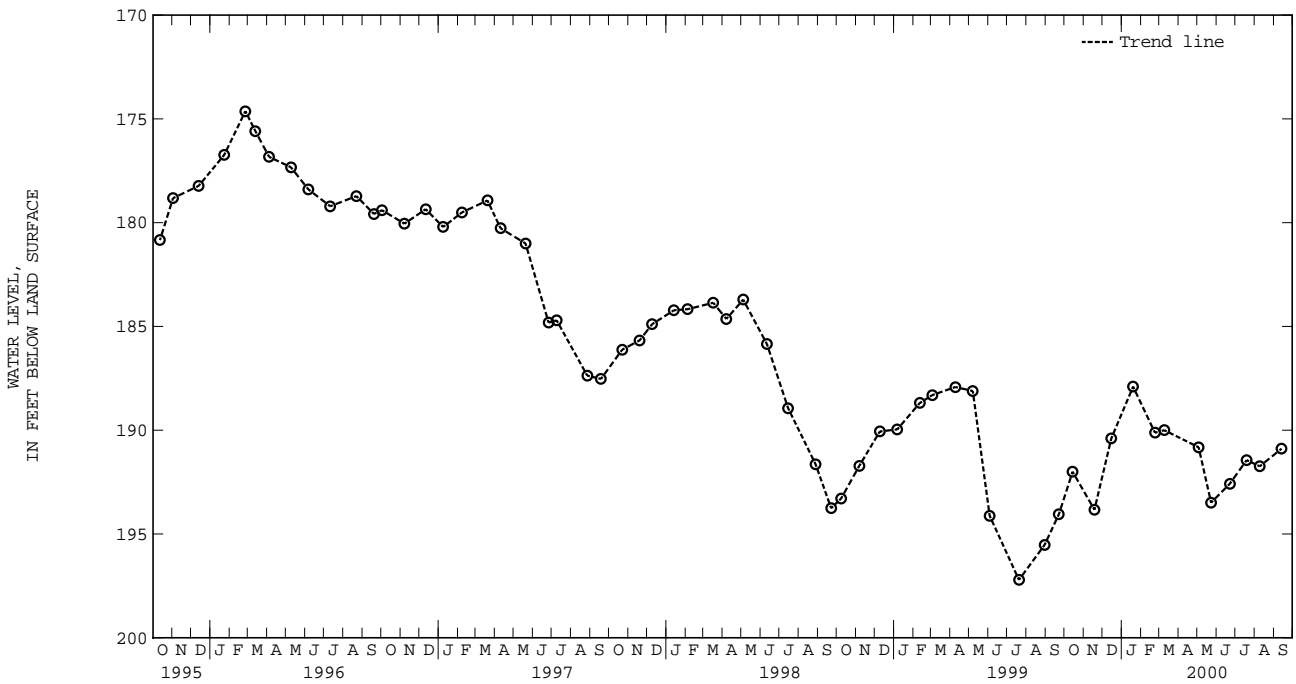
REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal.

PERIOD OF RECORD.--December 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 138.95 ft below land surface, April 5, 1979; lowest measured, 197.21 ft below land surface, July 20, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14, 1999	192.00	JAN 19, 2000	187.90	MAY 03, 2000	190.82	JUL 19, 2000	191.44
NOV 18	193.83	FEB 23	190.12	23	193.49	AUG 09	191.74
DEC 15	190.40	MAR 09	190.00	JUN 22	192.58	SEP 13	190.89
WATER YEAR 2000 HIGHEST 187.90		JAN 19, 2000		LOWEST 193.83		NOV 18, 1999	



ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Dd 50. SITE ID.--381807076380001. PERMIT NUMBER.--SM-73-3082.

LOCATION.--Lat 38°18'07", long 76°38'00", Hydrologic Unit 02070011, at Leonard Hall Junior Naval Academy, Leonardtown.

Owner: U.S. Geological Survey.

AQUIFER.--Aquia Formation of Upper Paleocene age. quifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 515 ft; casing diameter 4 in., to 270 ft; casing diameter 2 in. from 270 to 505 ft; screen diameter 3 in. from 505 to 515 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 99.40 ft above sea level.

Measuring point: Top of casing, 1.86 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal

PERIOD OF RECORD.--December 1978 to current year.

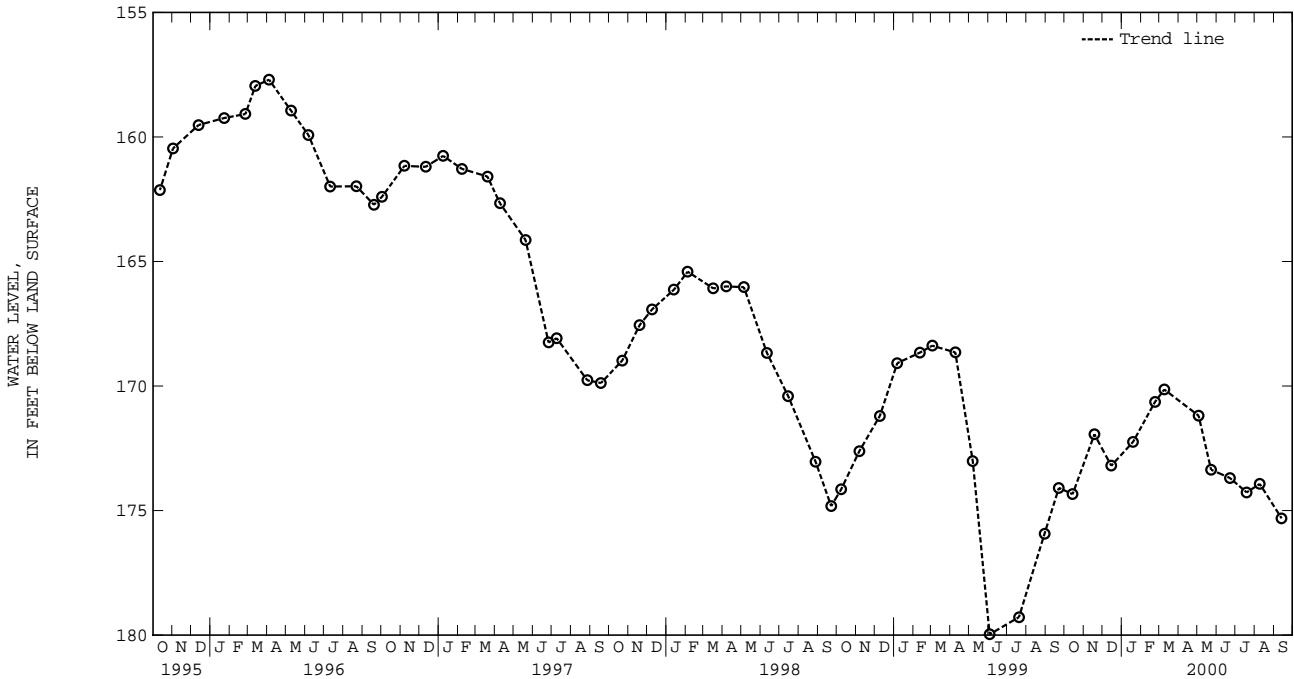
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 119.05 ft below land surface, Feb. 2, 1979;

lowest measured, 179.97ft below land surface, June 3, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14, 1999	174.34	JAN 19, 2000	172.24	MAY 03, 2000	171.19	JUL 19, 2000	174.27
NOV 18	171.94	FEB 23	170.64	23	173.36	AUG 09	173.93
DEC 15	173.20	MAR 09	170.14	JUN 22	173.69	SEP 13	175.31

WATER YEAR 2000 HIGHEST 170.14 MAR 09, 2000 LOWEST 175.31 SEP 13, 2000



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Dd 62. SITE ID.--381616076364703. PERMIT NUMBER.--SM-73-3786.

LOCATION.--Lat 38°16'16", 76°36'47", Hydrologic Unit 02070011, at Leonardtown Senior High School, Redgate.

Owner: U.S. Geological Survey.

AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 358 ft; casing diameter 4 in., to 210 ft; casing diameter 2 in. from 210 to 348 ft; screen diameter 2 in. from 348 to 358 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 119.30 ft above sea level.

Measuring point: Top of casing, 0.70 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal

PERIOD OF RECORD.--July 1980 to current year.

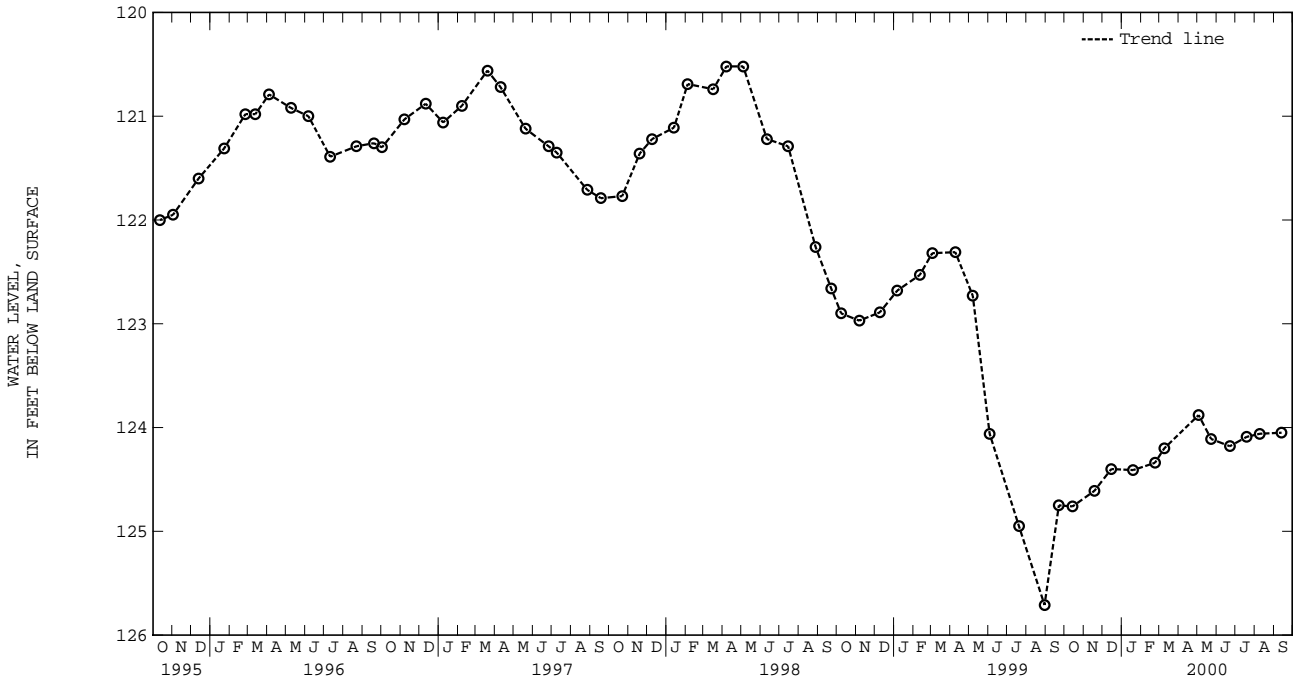
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 111.06 ft below land surface, Oct. 30, 1980;

lowest measured, 125.71 ft below land surface, Aug. 30, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14, 1999	124.76	JAN 19, 2000	124.41	MAY 03, 2000	123.88	JUL 19, 2000	124.09
NOV 18	124.61	FEB 23	124.34	23	124.11	AUG 09	124.06
DEC 15	124.40	MAR 09	124.20	JUN 22	124.18	SEP 13	124.05

WATER YEAR 2000 HIGHEST 123.88 MAY 03, 2000 LOWEST 124.76 OCT 14, 1999



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Dd 63. SITE ID.--381615076364701. PERMIT NUMBER.--SM-73-3785.

LOCATION.--Lat 38°16'15", long 76°36'47", Hydrologic Unit 02070011, at Leonardtown Senior High School, Redgate.

Owner: U.S. Geological Survey.

AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, depth 356 ft; casing diameter 4 in., to 327 ft; casing diameter 2 in. from 327 to 346 ft; screen diameter 2 in. from 346 to 356 ft.

INSTRUMENTATION.--Twice yearly measurements with electric tape by U.S. Geological Survey personnel from April 1987 to current year. Measured monthly from October 1977 to October 1986.

DATUM.--Elevation of land surface is 119.72 ft above sea level.

Measuring point: Top of casing, 1.00 ft above land surface.

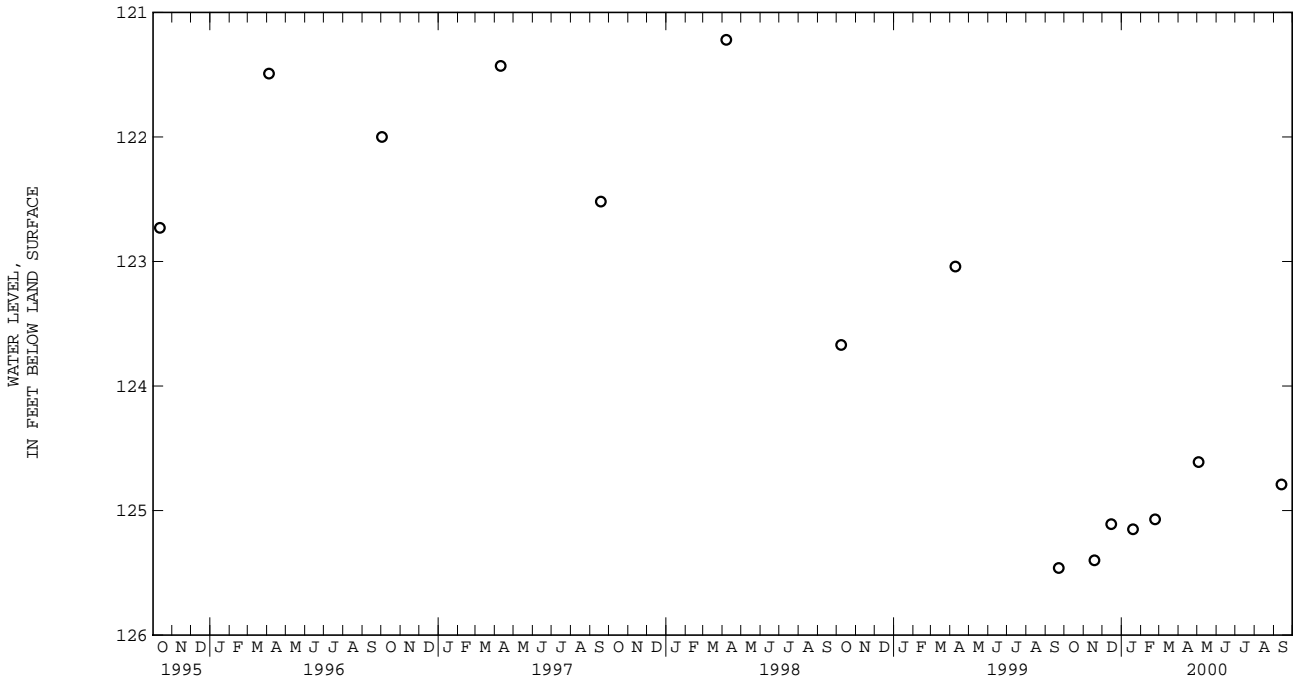
REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal PERIOD OF RECORD.--July 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 113.15 ft below land surface, March 2, 1981; lowest measured, 125.46 ft below land surface, Sept. 22, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 18, 1999	125.40	JAN 19, 2000	125.15	MAY 03, 2000	124.61
DEC 15	125.11	FEB 23	125.07	SEP 13	124.79

WATER YEAR 2000 HIGHEST 124.61 MAY 03, 2000 LOWEST 125.40 NOV 18, 1999



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Df 14. SITE ID.--381719076264801.

LOCATION.--Lat 38°17'20", long 76°26'48", Hydrologic Unit 02060006, at Patuxent River Naval Air Test Station.

Owner: U.S. Navy.

AQUIFER.--Piney Point Formation of Upper Eocene age and the Nanjemoy Formation of Lower Eocene age.

Aquifer code: 124PNPN,124NNJM.

WELL CHARACTERISTICS.--Drilled, artesian well, depth 262 ft; casing diameter 8 in., to 247 ft; screen diameter 8 in. from 247 to 262 ft.

INSTRUMENTATION.--Periodic measurements with electric tape by U.S. Geological Survey personnel.

Equipped with digital water-level recorder--60-minute recording interval, Feb. 24, 2000 to current year.

DATUM.--Elevation of land surface is 3.00 ft above sea level.

Measuring point: Top of shelter platform, 1.00 ft above land surface.

REMARKS.--Naval Air Station Patuxent River Ground Water Hydrogeology project observation well

Water levels affected by nearby pumping. Missing data due to recorder malfunction. Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--September 24, 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.87 ft below sea level, April 27, 2000; lowest measured, 27.36 ft below sea level, September 24, 1996.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	---	---	---	---	---	---	---	---	-22.97	-23.46
2	---	---	---	---	---	---	---	---	---	---	-22.97	-23.25
3	---	---	---	---	---	---	---	---	---	---	-23.24	-23.46
4	---	---	---	---	---	---	---	---	---	---	-23.06	-23.31
5	---	---	---	---	---	---	---	---	---	---	-23.03	-23.27
6	---	---	---	---	---	---	---	---	---	---	-23.06	-23.33
7	---	---	---	---	---	---	---	---	---	---	-23.12	-23.35
8	---	---	---	---	---	---	---	---	---	---	-22.99	-23.26
9	---	---	---	---	---	---	---	---	---	---	-22.89	-23.25
10	---	---	---	---	---	---	---	---	---	---	-22.84	-23.26
11	---	---	---	---	---	---	---	---	---	---	-22.84	-23.25
12	---	---	---	---	---	---	---	---	---	---	-22.59	-23.29
13	---	---	---	---	---	---	---	---	---	---	-23.18	-23.38
14	---	---	---	---	---	---	---	---	---	---	-23.02	-23.27
15	---	---	---	---	---	---	---	---	---	---	-22.97	-23.26
16	---	---	---	---	---	---	---	---	---	---	-22.80	-23.16
17	---	---	---	---	---	---	---	---	---	---	-22.80	-23.27
18	---	---	---	---	---	---	---	---	---	---	-22.99	-23.46
19	---	---	---	---	---	---	---	---	---	---	-22.78	-23.08
20	---	---	---	---	---	---	---	---	---	---	-22.64	-22.88
21	---	---	---	---	---	---	---	---	---	---	-22.38	-22.72
22	---	---	---	---	---	---	---	---	---	---	-22.55	-22.98
23	---	---	---	---	---	---	---	---	---	---	-22.58	-22.96
24	---	---	---	---	---	---	---	---	---	---	-22.61	-22.98
25	---	---	---	---	---	---	---	---	-23.40	-23.59	-22.61	-22.98
26	---	---	---	---	---	---	---	---	-23.33	-23.60	-22.64	-22.90
27	---	---	---	---	---	---	---	---	-23.12	-23.36	-22.34	-22.89
28	---	---	---	---	---	---	---	---	-23.24	-23.52	-22.33	-22.57
29	---	---	---	---	---	---	---	---	-23.37	-23.58	-22.53	-22.90
30	---	---	---	---	---	---	---	---	---	---	-22.67	-22.88
31	---	---	---	---	---	---	---	---	---	---	-22.67	-22.91
MONTH	---	---	---	---	---	---	---	---	-23.12	-23.60	-22.33	-23.46

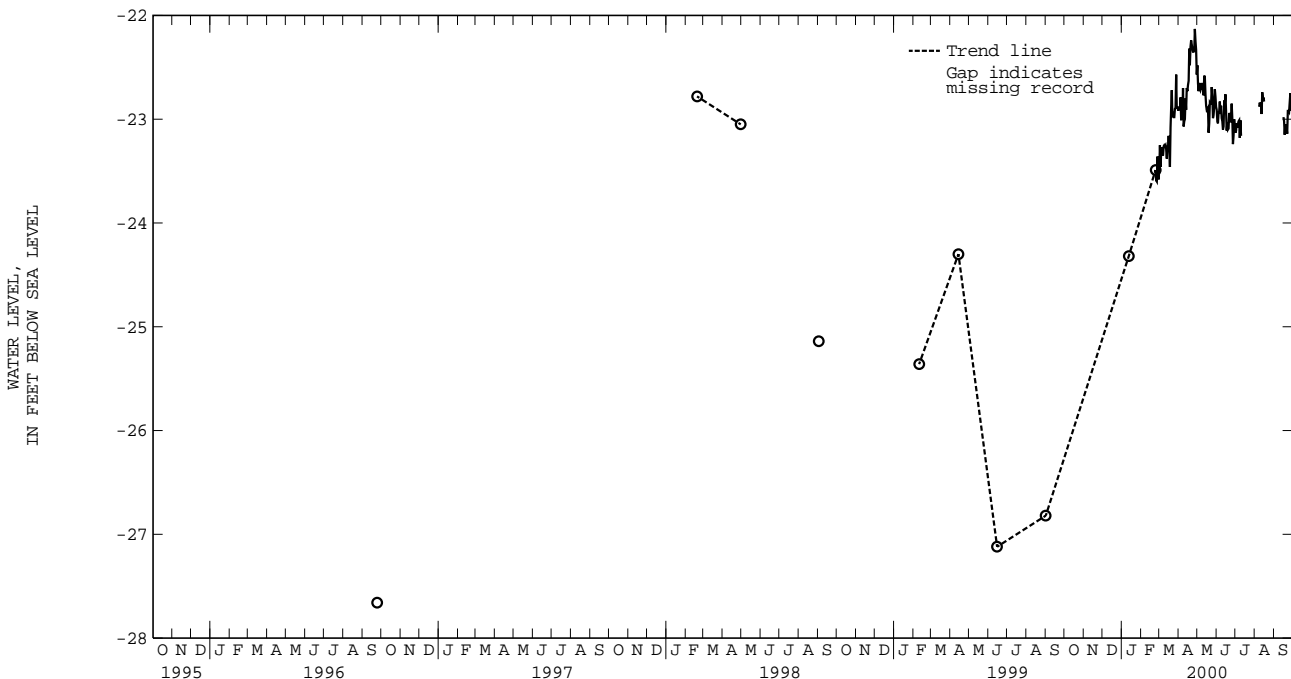
ST. MARYS COUNTY--Continued

SM Df 14--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-22.64	-22.91	-22.14	-22.48	-22.52	-22.91	-22.64	-23.13	---	---	---	---
2	-22.63	-22.88	-22.14	-22.66	-22.58	-23.02	-22.64	-23.11	---	---	---	---
3	-22.64	-22.90	-22.45	-22.73	-22.51	-23.04	-22.62	-23.04	---	---	---	---
4	-22.36	-22.79	-22.36	-22.65	-22.66	-22.94	-22.61	-23.08	---	---	---	---
5	-22.69	-23.01	-22.30	-22.70	-22.50	-22.92	-22.67	-23.05	---	---	---	---
6	-22.56	-22.87	-22.44	-22.72	-22.38	-22.83	-22.61	-23.02	---	---	---	---
7	-22.61	-22.93	-22.40	-22.70	-22.63	-22.95	-22.63	-23.01	---	---	---	---
8	-22.24	-22.70	-22.31	-22.66	-22.54	-22.87	-22.82	-23.18	-22.61	-22.88	---	---
9	-22.62	-23.07	-22.37	-22.66	-22.68	-22.99	-22.73	-23.01	-22.67	-22.84	---	---
10	-22.73	-23.02	-22.37	-22.66	-22.74	-23.02	-22.75	-23.16	-22.65	-22.86	---	---
11	-22.70	-23.00	-22.48	-22.77	-22.73	-23.10	---	---	-22.57	-22.87	---	---
12	-22.51	-22.80	-22.29	-22.58	-22.72	-23.07	---	---	-22.58	-22.95	---	---
13	-22.53	-22.91	-22.37	-22.60	-22.51	-22.82	---	---	-22.55	-22.74	---	---
14	-22.46	-22.70	-22.38	-22.76	-22.51	-22.85	---	---	-22.50	-22.81	---	---
15	-22.33	-22.73	-22.53	-22.87	-22.52	-22.76	---	---	-22.55	-22.79	---	---
16	-22.33	-22.67	-22.56	-22.91	-22.46	-22.92	---	---	-22.53	-22.83	-22.74	-22.98
17	-22.25	-22.63	-22.59	-22.90	-22.65	-23.11	---	---	---	---	-22.84	-23.02
18	-22.09	-22.32	-22.57	-22.89	-22.78	-23.03	---	---	---	---	-22.84	-23.15
19	-22.16	-22.48	-22.63	-23.13	-22.74	-23.10	---	---	---	---	-22.82	-23.05
20	-22.04	-22.30	-22.64	-23.04	-22.77	-23.09	---	---	---	---	-22.80	-23.10
21	-21.92	-22.24	-22.59	-22.84	-22.64	-22.94	---	---	---	---	-22.77	-23.08
22	-21.99	-22.28	-22.52	-22.85	-22.54	-22.96	---	---	---	---	-22.84	-23.14
23	-22.09	-22.32	-22.46	-22.85	-22.77	-23.03	---	---	---	---	-22.63	-22.92
24	-22.18	-22.35	-22.26	-22.69	-22.71	-23.00	---	---	---	---	-22.60	-22.92
25	-22.21	-22.35	-22.49	-22.79	-22.65	-22.85	---	---	---	---	-22.58	-22.93
26	-22.06	-22.34	-22.70	-22.99	-22.66	-22.99	---	---	---	---	-22.30	-22.84
27	-21.87	-22.13	-22.69	-22.96	-22.77	-23.24	---	---	---	---	-22.35	-22.75
28	-22.03	-22.25	-22.62	-22.88	-22.65	-23.16	---	---	---	---	-22.40	-22.86
29	-22.25	-22.33	-22.50	-22.71	-22.57	-23.00	---	---	---	---	-22.59	-22.92
30	-22.26	-22.57	-22.50	-22.78	-22.57	-23.08	---	---	---	---	-22.49	-22.82
31	---	---	-22.53	-22.88	---	---	---	---	---	---	---	---
MONTH	-21.87	-23.07	-22.14	-23.13	-22.38	-23.24	-22.61	-23.18	-22.50	-22.95	-22.30	-23.15
YEAR	-21.87	-23.60										

Daily Low Water Levels



GROUND-WATER LEVELS IN MARYLAND--Continued

ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Df 61. SITE ID.--381604076271701. PERMIT NUMBER.--SM-05-5823.

LOCATION.--Lat 38°16'05", long 76°27'13", Hydrologic Unit 02060006, at Patuxent River Naval Air Test Station.

Owner: U.S. Navy.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, artesian well, depth 600 ft; casing diameter 8 in., to 580 ft; screen diameter 8 in. from 580 to 600 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

Equipped with digital water-level recorder--60-minute recording interval, Sept. 22, 1999 to current year.

DATUM.--Elevation of land surface is 110 ft above sea level.

Measuring point: Top of shelter platform, 1.70 ft above land surface.

REMARKS.--Naval Air Station Patuxent River Ground Water Hydrogeology project observation/production well.

Water levels affected by pumping. Missing data due to recorder malfunction.

PERIOD OF RECORD.--March 3, 1964 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 47.00 ft below sea level, March 3, 1964; lowest measured, 247.75 ft below sea level, Oct. 1, 1999.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-146.56	-247.75	-141.21	-180.65	-140.28	-141.39	-136.17	-138.83	-137.55	-141.45	-134.18	-175.61
2	-146.59	-184.78	-139.49	-179.26	-140.59	-179.13	-136.27	-139.16	-136.92	-176.95	-136.84	-138.59
3	-146.23	-147.65	-140.24	-143.49	-140.27	-141.40	-139.16	-177.92	-136.67	-140.64	-137.02	-177.74
4	-146.21	-184.64	-140.00	-180.02	-141.36	-180.91	-138.81	-179.87	-137.19	-176.22	-136.69	-139.99
5	-146.03	-147.51	-141.64	-142.96	-138.85	-141.98	-137.99	-140.05	-139.73	-178.77	-136.52	-138.39
6	-145.94	-146.73	-139.81	-143.01	-140.42	-178.84	-137.59	-177.64	-138.50	-140.74	-138.34	-178.27
7	-145.95	-184.83	-140.41	-179.67	-139.08	-142.26	-137.45	-140.54	-139.56	-140.80	-138.04	-140.03
8	-145.55	-146.40	-139.18	-141.72	-140.29	-180.79	-139.39	-177.68	-140.80	-181.63	-136.39	-175.90
9	-143.21	-145.87	-140.72	-181.05	-139.90	-142.92	-137.80	-140.95	---	---	-135.01	-137.76
10	-145.00	-182.74	-139.74	-143.26	-141.45	-181.19	-139.58	-177.43	---	---	-137.33	-177.78
11	-143.25	-145.71	-140.07	-178.43	-140.08	-143.77	-136.76	-140.24	-134.44	-138.76	-134.65	-137.41
12	-142.21	-182.24	-137.75	-141.58	-141.34	-182.37	-138.64	-177.81	-138.75	-178.06	-136.61	-177.51
13	-141.49	-143.80	-141.10	-178.64	-140.19	-143.62	-135.37	-175.53	-136.74	-140.16	-136.04	-139.65
14	-141.06	-182.29	-138.16	-141.39	-141.77	-178.56	-133.96	-175.37	-138.52	-178.40	-137.88	-177.26
15	-142.15	-143.55	-140.68	-178.57	-141.48	-142.30	-135.38	-175.45	-137.63	-141.11	-135.96	-139.15
16	-142.12	-182.74	-138.12	-142.07	-139.45	-178.29	-133.48	-135.38	-136.33	-177.19	-136.92	-177.51
17	-143.10	-145.29	-136.86	-177.50	-139.59	-140.70	-133.20	-173.97	-139.95	-140.49	-135.73	-175.20
18	-141.81	-144.51	---	---	-139.26	-176.70	-132.97	-136.97	-138.62	-177.57	-139.73	-140.25
19	-143.43	-182.17	-138.07	-178.30	-138.04	-139.73	-136.39	-175.31	-137.48	-141.16	-140.07	-180.25
20	-143.41	-145.13	-137.92	-141.29	-136.91	-139.97	-135.04	-137.76	-139.12	-177.41	-140.21	-142.12
21	-143.06	-182.08	-138.87	-141.31	-138.01	-176.48	-137.00	-175.12	-136.68	-139.41	-140.24	-178.05
22	-139.86	-179.74	-140.02	-180.59	-135.49	-138.68	-136.57	-139.62	-137.54	-177.37	-138.95	-140.29
23	-142.59	-181.48	-139.27	-144.08	-135.86	-177.12	-139.61	-177.98	-135.40	-139.23	-139.04	-178.64
24	-140.07	-142.59	-144.08	-182.04	-137.11	-139.20	-138.20	-140.98	-136.59	-177.03	-137.23	-139.04
25	-141.10	-180.18	-141.24	-145.57	-138.81	-178.77	-140.50	-179.32	-135.63	-138.32	-136.06	-139.16
26	-140.39	-144.35	-141.89	-179.02	-136.89	-139.73	-139.24	-140.59	-137.39	-175.80	-139.11	-177.23
27	-142.78	-181.96	-138.42	-142.00	-138.65	-177.45	-137.34	-178.07	-134.88	-138.06	-136.96	-140.62
28	-140.55	-143.05	-138.36	-177.67	-137.58	-140.58	-134.98	-138.71	-136.54	-177.11	-137.72	-178.41
29	-141.65	-180.13	-140.61	-142.04	-136.45	-176.74	-138.71	-177.51	-134.80	-136.99	-136.04	-139.61
30	-140.49	-142.64	-139.46	-178.46	-136.06	-138.37	-138.56	-177.80	---	---	-137.22	-177.34
31	-139.89	-142.84	---	---	-138.36	-177.84	-140.43	-179.01	---	---	-135.71	-137.31
MONTH	-139.86	-247.75	-136.86	-182.04	-135.49	-182.37	-132.97	-179.87	-134.44	-181.63	-134.18	-180.25

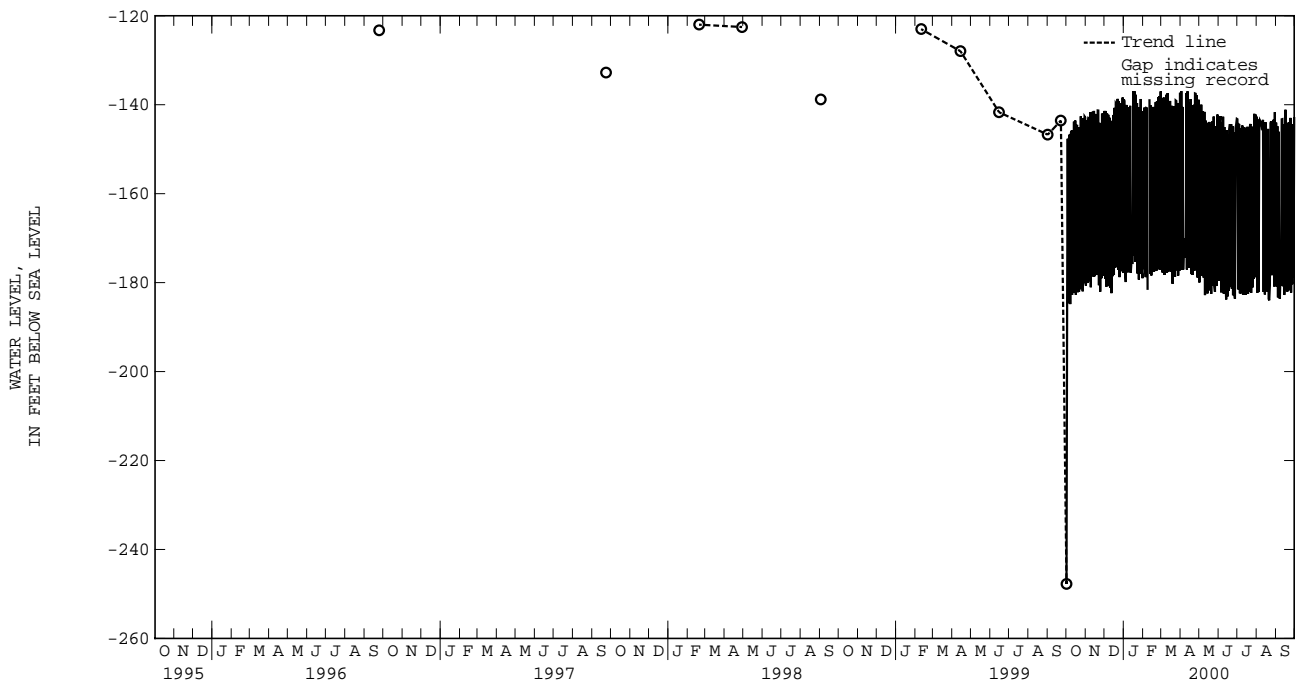
ST. MARYS COUNTY--Continued

SM Df 61--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-134.96	-174.66	-137.78	-179.97	-139.31	-172.19	-141.02	-143.27	-138.80	-142.69	-139.88	-144.02
2	-134.12	-136.93	-135.92	-140.41	-142.43	-179.58	-142.09	-181.51	-142.16	-182.26	-142.62	-180.88
3	-136.04	-177.07	-137.24	-178.24	-140.47	-143.46	-142.22	-144.41	-139.86	-143.35	-141.76	-144.82
4	-135.99	-140.50	-136.53	-139.98	-139.75	-142.58	-141.82	-144.49	-143.16	-182.12	-143.87	-183.32
5	-136.14	-177.08	-138.50	-178.42	-142.00	-182.19	-143.98	-182.42	-140.81	-144.90	-142.87	-146.06
6	-134.13	-172.63	-137.45	-141.48	-142.57	-143.94	-142.03	-145.36	-140.34	-143.49	-144.65	-182.71
7	-135.10	-174.39	-136.64	-175.39	-142.03	-180.62	-143.63	-182.40	-140.54	-143.78	-145.06	-183.64
8	-134.03	-169.97	-140.65	-178.89	-142.27	-142.70	-142.65	-145.62	-140.85	-143.89	-141.41	-177.73
9	-134.94	-173.76	-138.53	-141.60	-142.46	-182.45	-142.10	-144.67	-143.58	-145.07	-141.94	-180.69
10	-133.91	-137.43	-140.75	-182.81	-142.36	-145.01	-143.39	-182.67	-140.34	-144.80	-139.45	-143.28
11	-136.40	-177.05	-140.21	-143.56	-145.00	-182.46	-141.42	-145.03	-139.89	-143.40	-139.72	-143.24
12	-135.32	-136.99	-142.31	-180.31	-145.03	-180.84	-143.00	-182.41	-141.67	-182.11	-143.24	-180.82
13	-135.82	-176.65	-142.10	-179.92	-145.76	-183.79	-141.32	-145.16	-141.08	-145.32	-140.40	-144.45
14	-137.16	-139.82	-143.62	-182.43	-145.17	-145.77	-142.56	-182.74	-142.18	-182.66	-143.22	-182.78
15	-136.14	-139.54	-142.81	-144.06	-144.40	-183.13	-143.00	-145.33	-140.29	-143.94	-141.12	-180.67
16	-138.15	-176.68	-143.37	-181.76	-142.25	-146.63	-143.03	-180.64	-141.60	-180.01	-139.44	-141.12
17	-138.05	-138.72	-141.11	-143.87	-142.07	-181.85	-143.96	-144.96	-140.86	-176.94	-139.06	-179.54
18	-138.32	-178.08	-142.65	-181.03	-143.08	-145.58	-143.36	-182.47	-143.77	-182.02	-138.80	-144.04
19	-137.67	-140.09	-142.34	-175.02	-141.89	-144.36	-142.16	-145.55	-142.78	-145.43	-142.39	-182.02
20	-138.77	-178.28	-144.07	-182.52	-143.80	-180.89	-143.75	-182.11	-141.25	-183.64	-142.36	-145.30
21	-139.44	-140.33	-143.45	-144.70	-142.30	-144.37	-142.29	-144.84	-141.99	-183.99	-143.72	-181.75
22	-136.23	-140.22	-140.81	-143.75	-144.15	-181.36	-141.79	-144.33	-142.06	-180.60	-140.93	-143.89
23	-135.17	-177.34	-140.80	-180.71	-142.32	-144.81	-144.03	-182.31	-140.62	-144.11	-142.02	-179.14
24	-133.64	-137.47	-141.91	-142.66	-143.98	-182.84	-142.03	-144.93	-139.21	-143.76	-139.25	-142.96
25	-133.94	-137.53	-141.49	-180.85	-143.09	-146.16	-142.67	-181.10	-139.17	-178.34	-142.31	-182.26
26	-133.81	-175.15	-142.11	-182.07	-145.76	-182.41	-141.10	-145.26	-141.04	-144.34	-139.65	-144.70
27	-137.11	-137.87	-141.34	-144.79	-145.17	-183.61	-140.21	-179.17	-139.39	-144.34	-141.81	-180.37
28	-137.58	-178.85	-140.42	-178.92	-141.97	-145.17	-138.70	-142.04	-139.24	-143.38	-140.10	-144.37
29	-136.41	-140.12	-141.14	-180.76	-141.01	-144.45	-140.57	-178.79	-141.14	-180.87	-140.96	-178.90
30	-136.30	-138.88	-139.85	-142.20	-140.63	-143.18	-138.25	-142.20	-139.47	-141.66	-139.46	-142.77
31	---	---	-139.57	-178.24	---	---	-139.21	-178.54	-140.75	-179.27	---	---
MONTH	-133.64	-178.85	-135.92	-182.81	-139.31	-183.79	-138.25	-182.74	-138.80	-183.99	-138.80	-183.64
YEAR	-132.97	-247.75										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

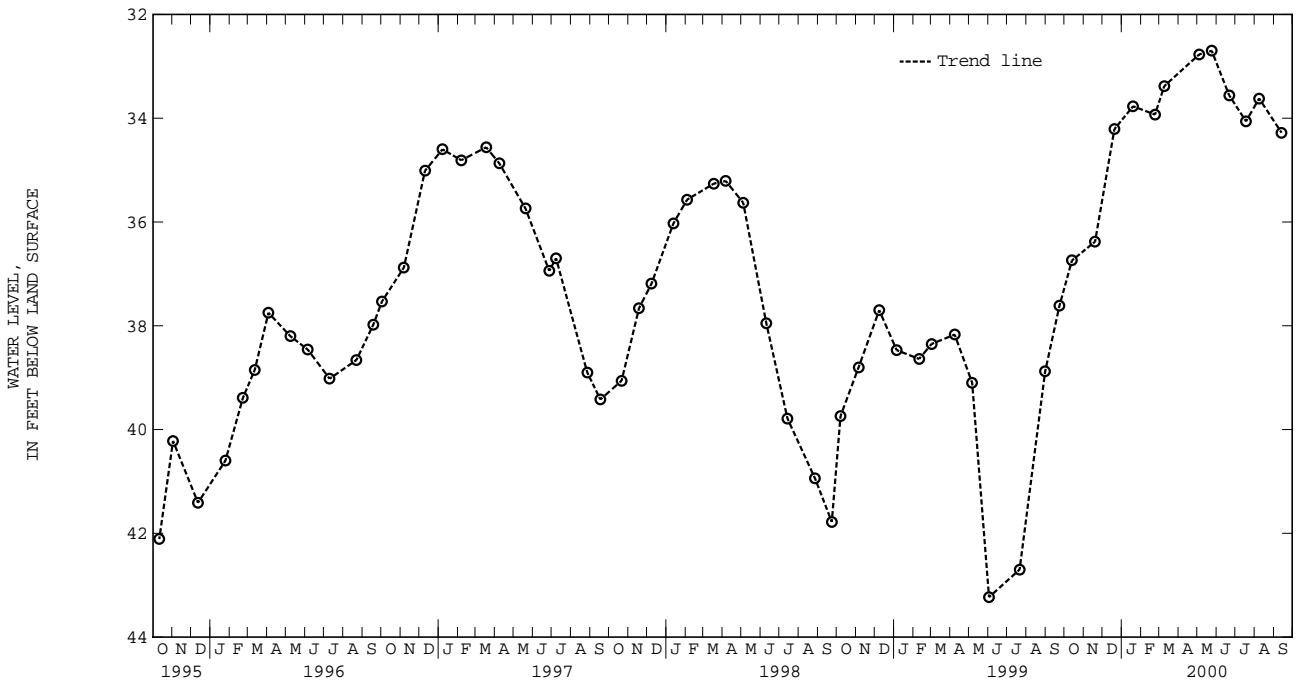
GROUND-WATER LEVELS IN MARYLAND--Continued

ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Df 66. SITE ID.--381841076284401. PERMIT NUMBER.--SM-73-1990.
 LOCATION.--Lat 38°18'41", long 76°28'44", Hydrologic Unit 02060006, 0.8 mi south of Town Point.
 Owner: U.S. Geological Survey.
 AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 258 ft; casing diameter 6 in., to 84 ft; casing diameter 2 in. from 84 to 248 ft; screen diameter 2 in. from 248 to 258 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 15 ft above sea level, from topographic map.
 Measuring point: Top of casing, 3.00 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal
 PERIOD OF RECORD.--July 1976 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 30.79 ft below land surface, April 5, 1979;
 lowest measured, 49.66 ft below land surface, July 9, 1986.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1999	36.74	JAN 19, 2000	33.77	MAY 04, 2000	32.77	JUL 18, 2000	34.06
NOV 19	36.38	FEB 23	33.93	24	32.70	AUG 08	33.62
DEC 20	34.21	MAR 09	33.38	JUN 21	33.56	SEP 13	34.28
WATER YEAR 2000 HIGHEST		32.70	MAY 24, 2000 LOWEST		36.74	OCT 13, 1999	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Df 71. SITE ID.--381527076283101. PERMIT NUMBER.--SM-73-3431.

LOCATION.--Lat 38°15'27", long 76°28'31", Hydrologic Unit 02070011, at Cheryl Dr. and Great Mills Rd., Lexington Park.

Owner: U.S. Geological Survey.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 560 ft; casing diameter 4 in., to 420 ft; casing diameter 2 in. from 420 to 550 ft; screen diameter 2 in. from 550 to 560 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 69.15 ft above sea level.

Measuring point: Top of casing, 0.80 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal.

PERIOD OF RECORD.--August 1979 to current year.

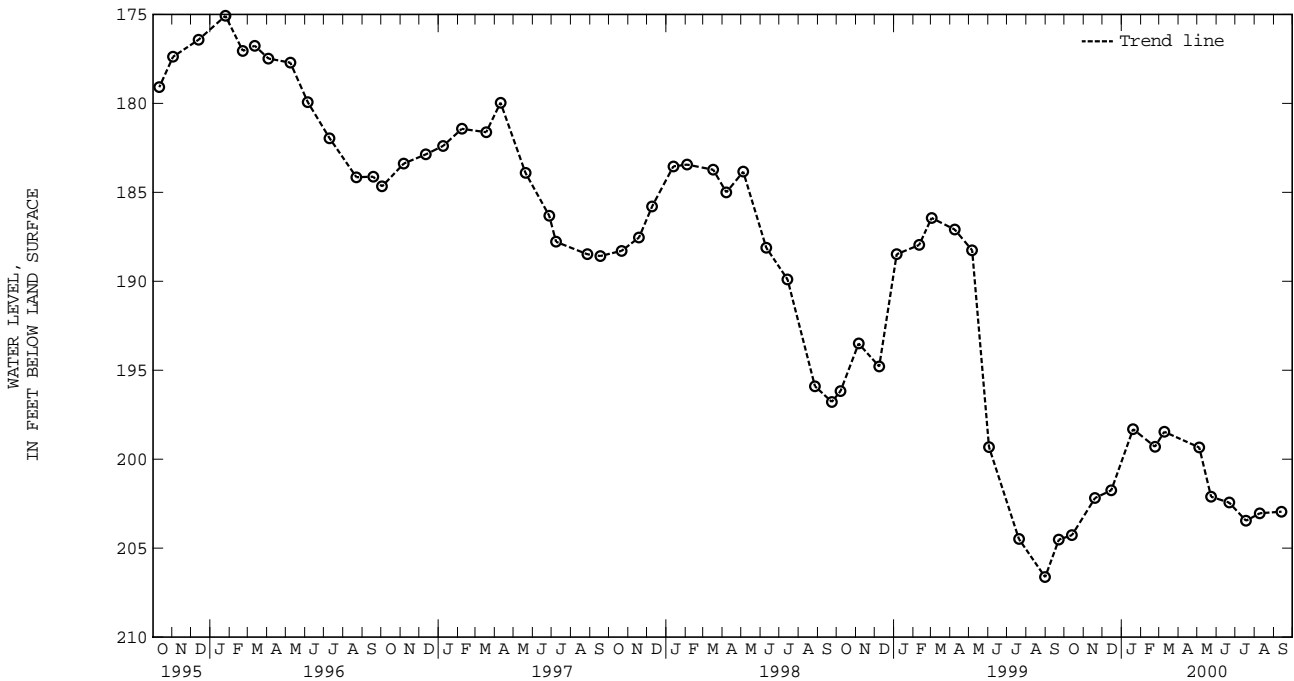
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 119.19 ft below land surface, May 1, 1980;

lowest measured, 206.63 ft below land surface, Aug. 31, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1999	204.27	JAN 19, 2000	198.31	MAY 04, 2000	199.34	JUL 18, 2000	203.46
NOV 19	202.18	FEB 23	199.30	23	202.11	AUG 09	203.04
DEC 15	201.75	MAR 09	198.46	JUN 21	202.44	SEP 13	202.95

WATER YEAR 2000 HIGHEST 198.31 JAN 19, 2000 LOWEST 204.27 OCT 13, 1999



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Df 84. SITE ID.--381548076272102. PERMIT NUMBER.--SM-81-0119.
 LOCATION.--Lat 38°15'48", long 76°27'21", Hydrologic Unit 0207011, at Lexington Park.
 Owner: Maryland Geological Survey.
 AQUIFER.--Upper Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 923 ft; casing diameter 6 in., to 246 ft; casing diameter 4 in. from 246 ft to 831 ft, 856 to 862 ft, and 867 to 897; screen diameter 4 in. from 831 to 856 ft, 862 to 867 ft, and 897 to 912 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60 minute recorder interval from Feb. 24, 2000 to current year.
 DATUM.--Elevation of land surface is 108.39 ft above sea level.
 Measuring point: Top of casing, 2.80 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by regional ground-water withdrawal. Missing data due to recorder malfunction.
 PERIOD OF RECORD.--January 1983 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.29 ft below sea level, Feb. 3, 1983; lowest measured, 37.57 ft below sea level, Sept. 22, 2000.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	---	---	-35.81	-36.03
2	---	---	---	---	---	---	---	---	---	---	-35.81	-35.96
3	---	---	---	---	---	---	---	---	---	---	-35.83	-35.96
4	---	---	---	---	---	---	---	---	---	---	-35.89	-35.98
5	---	---	---	---	---	---	---	---	---	---	-35.88	-35.96
6	---	---	---	---	---	---	---	---	---	---	-35.96	-36.02
7	---	---	---	---	---	---	---	---	---	---	-36.00	-36.08
8	---	---	---	---	---	---	---	---	---	---	-35.94	-36.03
9	---	---	---	---	---	---	---	---	---	---	-35.90	-35.97
10	---	---	---	---	---	---	---	---	---	---	-35.91	-36.02
11	---	---	---	---	---	---	---	---	---	---	-35.90	-36.03
12	---	---	---	---	---	---	---	---	---	---	-35.83	-36.01
13	---	---	---	---	---	---	---	---	---	---	-36.01	-36.12
14	---	---	---	---	---	---	---	---	---	---	-36.03	-36.10
15	---	---	---	---	---	---	---	---	---	---	-35.99	-36.09
16	---	---	---	---	---	---	---	---	---	---	-35.92	-36.04
17	---	---	---	---	---	---	---	---	---	---	-35.84	-36.04
18	---	---	---	---	---	---	---	---	---	---	-36.04	-36.13
19	---	---	---	---	---	---	---	---	---	---	-36.06	-36.12
20	---	---	---	---	---	---	---	---	---	---	-36.01	-36.11
21	---	---	---	---	---	---	---	---	---	---	-35.90	-36.08
22	---	---	---	---	---	---	---	---	---	---	-35.91	-35.98
23	---	---	---	---	---	---	---	---	---	---	-35.88	-36.00
24	---	---	---	---	---	---	---	---	---	---	-35.90	-35.93
25	---	---	---	---	---	---	---	---	-35.95	-36.04	-35.78	-35.91
26	---	---	---	---	---	---	---	---	-36.04	-36.07	-35.77	-35.85
27	---	---	---	---	---	---	---	---	-35.95	-36.07	-35.62	-35.85
28	---	---	---	---	---	---	---	---	-35.91	-36.00	-35.62	-35.73
29	---	---	---	---	---	---	---	---	-35.94	-36.06	-35.70	-35.86
30	---	---	---	---	---	---	---	---	---	---	-35.82	-35.90
31	---	---	---	---	---	---	---	---	---	---	-35.87	-35.99
MONTH	---	---	---	---	---	---	---	---	-35.91	-36.07	-35.62	-36.13

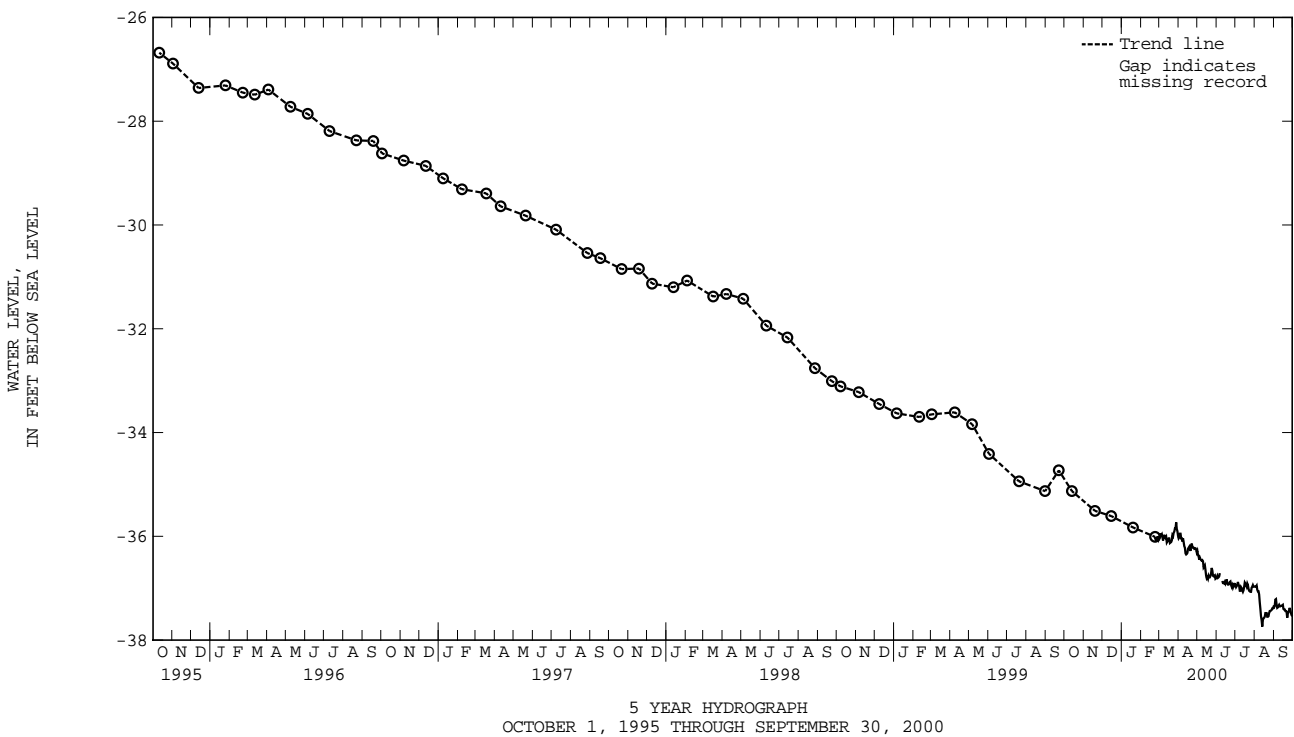
ST. MARYS COUNTY--Continued

SM Df 84--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-35.94	-36.04	-36.19	-36.28	-36.69	-36.79	-36.85	-36.94	-36.89	-36.97	-37.25	-37.37
2	-35.91	-36.02	-36.21	-36.36	-36.65	-36.76	-36.91	-36.98	-36.90	-36.97	-37.15	-37.34
3	-35.83	-35.95	-36.36	-36.39	-36.67	-36.80	-36.91	-36.96	-36.89	-36.97	-37.15	-37.22
4	-35.79	-35.95	-36.38	-36.45	-36.75	-36.79	-36.85	-36.94	-36.88	-36.95	-37.15	-37.21
5	-35.95	-36.04	-36.37	-36.41	-36.71	-36.77	-36.85	-36.88	-36.93	-37.03	-37.17	-37.32
6	-35.95	-36.04	-36.39	-36.44	-36.64	-36.71	-36.86	-36.93	-36.94	-37.06	-37.31	-37.38
7	-36.01	-36.10	-36.40	-36.46	---	---	-36.90	-36.96	-36.94	-37.06	-37.27	-37.37
8	-35.95	-36.04	-36.38	-36.47	---	---	-36.96	-37.05	-36.97	-37.12	-37.23	-37.34
9	-36.01	-36.11	-36.39	-36.46	---	---	-36.96	-37.05	-37.07	-37.27	-37.21	-37.32
10	-36.11	-36.19	-36.38	-36.48	-36.77	-36.86	-36.93	-36.98	-37.27	-37.40	-37.25	-37.35
11	-36.15	-36.22	-36.48	-36.60	-36.80	-36.90	-36.93	-37.00	-37.36	-37.54	-37.25	-37.35
12	-36.16	-36.33	-36.50	-36.58	-36.82	-36.90	-36.97	-37.04	-37.51	-37.62	-37.23	-37.34
13	-36.29	-36.35	-36.51	-36.56	-36.84	-36.91	-37.01	-37.07	-37.55	-37.74	-37.22	-37.34
14	-36.26	-36.34	-36.55	-36.65	-36.87	-36.88	-36.97	-37.04	-37.51	-37.61	-37.21	-37.33
15	-36.19	-36.32	-36.65	-36.76	-36.79	-36.91	-36.82	-36.97	-37.49	-37.58	-37.23	-37.32
16	-36.17	-36.24	-36.70	-36.81	-36.79	-36.87	-36.83	-36.89	-37.47	-37.57	-37.32	-37.40
17	-36.19	-36.22	-36.70	-36.79	-36.81	-36.83	-36.87	-36.91	-37.45	-37.55	-37.40	-37.41
18	-36.14	-36.20	-36.72	-36.82	-36.82	-36.91	-36.87	-36.94	-37.36	-37.48	-37.37	-37.41
19	-36.18	-36.25	-36.73	-36.76	-36.82	-36.93	-36.84	-36.97	-37.37	-37.48	-37.27	-37.44
20	-36.15	-36.28	-36.76	-36.79	-36.87	-36.93	-36.82	-36.91	-37.41	-37.48	-37.32	-37.44
21	-36.06	-36.18	-36.76	-36.79	-36.81	-36.91	-36.86	-36.94	-37.42	-37.55	-37.32	-37.45
22	-36.07	-36.14	-36.69	-36.76	-36.78	-36.88	-36.94	-37.01	-37.46	-37.55	-37.43	-37.57
23	-36.12	-36.20	-36.61	-36.71	-36.79	-36.87	-36.95	-37.05	-37.37	-37.54	-37.41	-37.49
24	-36.18	-36.22	-36.60	-36.61	-36.85	-36.93	-36.99	-37.06	-37.41	-37.48	-37.37	-37.46
25	-36.16	-36.22	-36.61	-36.66	-36.85	-36.97	-36.99	-37.07	-37.34	-37.44	-37.29	-37.43
26	-36.17	-36.24	-36.66	-36.76	-36.85	-36.94	-36.86	-37.07	-37.33	-37.44	-37.34	-37.38
27	-36.23	-36.23	-36.67	-36.77	-36.91	-36.99	-36.91	-36.99	-37.29	-37.43	-37.35	-37.43
28	-36.15	-36.23	-36.67	-36.76	-36.87	-36.96	-36.83	-36.97	-37.28	-37.42	-37.36	-37.48
29	-36.17	-36.25	-36.67	-36.75	-36.82	-36.90	-36.85	-36.94	-37.29	-37.39	-37.43	-37.52
30	-36.18	-36.31	-36.73	-36.82	-36.83	-36.95	-36.86	-36.97	-37.27	-37.39	-37.44	-37.54
31	---	---	-36.75	-36.81	---	---	-36.85	-36.97	-37.26	-37.36	---	---
MONTH	-35.79	-36.35	-36.19	-36.82	-36.64	-36.99	-36.82	-37.07	-36.88	-37.74	-37.15	-37.57
YEAR	-35.62	-37.74										

Daily Low Water Levels



GROUND-WATER LEVELS IN MARYLAND--Continued

ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Dg 14. SITE ID.--381813076232501. PERMIT NUMBER.--SM-92-0370.
 LOCATION.--Lat 38°18'11", long 76°23'27", Hydrologic Unit 02060006, at Patuxent River Naval Air Test Station.
 Owner: U.S. Navy.
 AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.
 WELL CHARACTERISTICS.--Drilled, artesian well, depth 542 ft; casing diameter 8 in., to 490 ft, and casing diameter 6 in. from 540 to 542 ft; screen diameter 6 in. from 490 to 540 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 Equipped with digital water-level recorder--60-minute recording interval, Sept. 22, 1999 to current year.
 DATUM.--Elevation of land surface is 19 ft above sea level.
 Measuring point: Top of shelter platform, 2.20 ft above land surface.
 REMARKS.--Naval Air Station Patuxent River Ground Water Hydrogeology project observation/production well.
 Water levels are affected by local ground-water withdrawal. Missing data due to recorder malfunction.
 PERIOD OF RECORD.--April 22, 1994 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 71.00 ft below sea level, April 22, 1994;
 lowest measured, 187.80 ft below sea level, Sept. 1, 2000.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-123.32	-165.02	-124.16	-129.95	-120.36	-120.89	-118.90	-119.50	-118.60	-159.70	-117.80	-160.20
2	-123.15	-176.01	-122.34	-124.16	-119.86	-181.50	-118.90	-119.20	-118.60	-119.10	-117.80	-118.20
3	-123.20	-164.21	-122.30	-122.95	-119.85	-164.25	-119.00	-119.30	-118.40	-119.00	-118.00	-118.60
4	-123.00	-165.19	-122.63	-184.69	-120.11	-163.67	-118.60	-119.40	-118.10	-118.60	-118.00	-119.80
5	-123.00	-171.70	-122.85	-176.33	-120.24	-163.48	-118.60	-119.30	-118.00	-118.50	-117.90	-123.00
6	-122.82	-170.93	-122.88	-173.99	-120.02	-163.14	-118.90	-119.40	-118.20	-119.00	-118.60	-119.50
7	-122.82	-165.29	-122.69	-170.92	-120.14	-164.64	-118.70	-119.10	-118.60	-119.30	-118.30	-119.00
8	-123.19	-167.75	-121.85	-171.36	-120.14	-176.95	-118.70	-119.30	-118.90	-119.40	-118.50	-119.10
9	-123.24	-175.02	-121.67	-167.66	-119.96	-162.87	-118.60	-119.20	---	---	-118.50	-125.30
10	-123.42	-165.01	-121.55	-169.76	-119.99	-164.83	-118.30	-118.90	---	---	-121.90	-126.50
11	-123.24	-123.64	-121.49	-165.15	-119.99	-163.67	-118.30	-118.90	-118.70	-119.20	-119.80	-121.90
12	-123.11	-185.56	-120.76	-164.55	-120.15	-163.44	-118.90	-119.60	-118.80	-119.50	-119.20	-119.90
13	-122.57	-123.11	-120.58	-175.80	-119.56	-162.80	-119.00	-119.50	-118.70	-119.20	-119.40	-119.80
14	-122.44	-128.95	-123.00	-171.76	-119.24	-164.75	-119.50	-119.90	-118.60	-119.00	-119.00	-171.10
15	-124.20	-129.55	-121.73	-165.46	-119.25	-173.78	-119.10	-119.70	-118.70	-162.40	-118.90	-165.60
16	-124.03	-128.88	-121.39	-121.82	-119.16	-162.25	-118.70	-163.40	-118.80	-163.80	-118.60	-167.00
17	-123.18	-127.53	-121.18	-121.98	-119.75	-163.66	-119.10	-162.40	-118.80	-162.20	-118.60	-161.10
18	-123.03	-123.45	---	---	-120.16	-163.26	-118.20	-166.50	-118.50	-161.60	-118.60	-163.10
19	-122.49	-123.12	-121.07	-121.56	-119.81	-169.45	-118.10	-160.30	-118.30	-163.00	-118.30	-160.70
20	-122.37	-160.34	-121.02	-121.50	-119.43	-163.24	-117.60	-180.00	-118.30	-162.10	-118.00	-167.90
21	-122.21	-122.95	-120.99	-121.43	-119.40	-163.03	-118.00	-162.70	-118.10	-161.30	-117.90	-168.70
22	-121.89	-122.57	-120.93	-121.35	-119.59	-163.77	-118.20	-159.90	-118.20	-175.00	-118.00	-170.40
23	-121.82	-122.43	-120.70	-121.19	-119.56	-164.13	-118.20	-160.00	-118.40	-162.40	-118.20	-164.50
24	-122.00	-122.69	-120.55	-121.03	-119.40	-160.60	-118.40	-161.60	-118.50	-161.50	-118.20	-175.50
25	-122.25	-122.94	-120.37	-121.03	-119.35	-164.41	-118.00	-159.40	-118.70	-162.60	-118.50	-160.50
26	-122.01	-122.53	-120.34	-125.70	-118.82	-164.95	-118.00	-159.10	-118.50	-161.80	-118.60	-161.70
27	-121.99	-122.65	-121.51	-126.39	-118.98	-163.78	-118.30	-160.90	-118.30	-161.30	-118.80	-166.30
28	-121.84	-122.54	-120.73	-121.53	-118.73	-161.19	-119.20	-161.20	-118.50	-164.50	-119.90	-165.60
29	-121.58	-122.29	-120.51	-121.12	-118.74	-183.88	-119.10	-163.50	-118.40	-162.70	-119.50	-164.30
30	-121.66	-128.29	-120.66	-121.06	-119.40	-165.40	-118.40	-169.90	---	---	-118.90	-160.10
31	-128.29	-129.65	---	---	-119.30	-169.30	-118.40	-173.70	---	---	-118.70	-159.20
MONTH	-121.58	-185.56	-120.34	-184.69	-118.73	-183.88	-117.60	-180.00	-118.00	-175.00	-117.80	-175.50

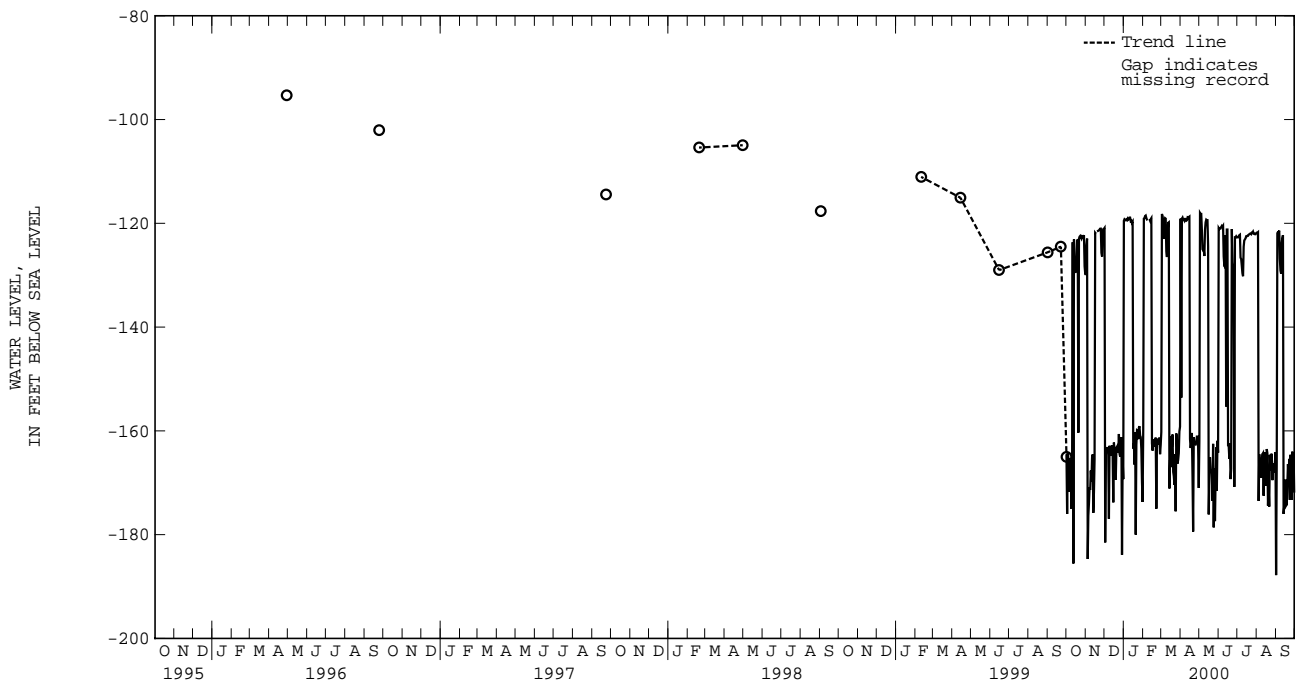
ST. MARYS COUNTY--Continued

SM Dg 14--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-118.60	-119.10	-117.20	-162.00	-120.10	-120.90	-122.00	-122.70	-121.30	-121.80	-121.60	-187.80
2	-118.60	-153.60	-117.20	-118.00	-120.30	-121.10	-122.10	-122.70	-121.20	-121.80	-121.50	-166.30
3	-118.60	-119.10	-117.50	-118.20	-120.30	-121.00	-122.00	-122.50	-121.20	-121.70	-121.40	-121.90
4	-118.30	-118.90	-117.70	-118.20	-120.40	-121.00	-121.70	-122.30	-121.20	-173.50	-121.30	-121.70
5	-118.50	-119.30	-117.60	-121.30	-120.20	-120.70	-121.70	-122.20	-121.20	-164.50	-121.20	-121.70
6	-118.70	-119.30	-118.10	-125.00	-119.80	-120.50	-121.50	-126.60	-121.00	-167.00	-121.00	-121.40
7	-118.70	-119.50	-119.90	-125.20	-120.10	-120.70	-122.20	-126.90	-121.10	-168.30	-121.10	-126.80
8	-118.40	-119.00	-119.50	-125.10	-120.00	-120.50	-122.10	-128.20	-121.40	-169.00	-126.80	-129.10
9	-118.70	-119.40	-121.30	-126.30	-120.20	-126.40	-128.20	-129.60	-121.30	-165.70	-123.80	-129.70
10	-119.00	-119.50	-119.50	-121.30	-126.40	-128.20	-124.50	-130.20	-121.30	-164.50	-122.70	-123.80
11	-118.80	-119.40	-119.00	-119.80	-122.30	-128.40	-123.20	-124.50	-121.20	-164.30	-122.10	-122.80
12	-118.50	-118.90	-118.90	-119.30	-121.40	-122.30	-122.90	-123.30	-121.20	-172.50	-121.80	-122.30
13	-118.40	-119.00	-118.90	-119.40	-120.70	-155.30	-122.60	-123.10	-121.10	-165.90	-121.70	-176.00
14	-118.40	-118.80	-118.90	-119.40	-120.70	-121.20	-122.10	-122.90	-121.00	-164.10	-121.80	-174.50
15	-118.30	-118.70	-119.00	-124.40	-120.70	-121.20	-122.00	-122.50	-120.90	-166.50	-121.70	-170.80
16	-118.30	-161.60	-124.40	-176.10	-120.70	-162.80	-122.00	-122.50	-120.80	-170.60	-121.60	-169.40
17	-118.00	-163.30	-121.70	-169.40	-121.00	-162.90	-121.90	-122.40	-121.00	-163.50	-128.30	-174.40
18	-117.70	-162.30	-120.80	-165.10	-121.20	-165.40	-121.90	-122.40	-120.80	-164.30	-129.50	-174.20
19	-117.70	-160.40	-120.60	-167.70	-121.00	-162.40	-121.80	-122.20	-121.00	-174.40	-124.20	-170.30
20	-117.70	-168.70	-121.80	-167.70	-121.00	-169.30	-121.70	-122.10	-126.90	-170.80	-123.20	-166.40
21	-119.40	-179.40	-121.20	-168.20	-120.70	-167.30	-121.50	-122.00	-122.80	-174.60	-122.80	-169.40
22	-118.90	-161.20	-120.60	-173.50	-120.50	-121.10	-121.40	-122.00	-122.30	-164.60	-122.50	-165.40
23	-118.40	-162.50	-120.20	-162.50	-120.80	-127.50	-121.60	-122.10	-122.00	-167.60	-122.10	-173.30
24	-118.30	-162.50	-119.80	-178.60	-127.50	-128.90	-121.40	-121.80	-122.10	-164.70	-121.90	-164.60
25	-118.10	-162.60	-121.40	-167.20	-123.10	-129.00	-121.40	-121.80	-121.80	-164.40	-121.50	-167.30
26	-117.40	-162.30	-120.90	-177.40	-122.30	-170.80	-121.10	-121.60	-121.80	-169.50	-121.40	-173.30
27	-117.20	-161.10	-120.70	-169.30	-122.30	-122.70	-121.40	-122.00	-122.50	-167.90	-121.20	-164.00
28	-117.40	-161.10	-120.30	-163.20	-122.00	-122.70	-121.40	-122.00	-122.30	-166.30	-121.10	-165.80
29	-117.60	-163.00	-120.30	-171.50	-121.90	-122.50	-121.40	-122.10	-122.20	-168.10	-121.40	-164.20
30	-117.50	-171.00	-120.00	-161.90	-121.90	-122.70	-121.50	-122.10	-121.80	-166.40	-121.20	-171.90
31	---	---	-120.00	-164.20	---	---	-121.40	-121.90	-121.60	-164.10	---	---
MONTH	-117.20	-179.40	-117.20	-178.60	-119.80	-170.80	-121.10	-130.20	-120.80	-174.60	-121.00	-187.80
YEAR	-117.20	-187.80										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Dg 21. SITE ID.--381810076244601. PERMIT NUMBER.--SM-94-0074.

LOCATION.--Lat 38°18'10", long 76°24'44", Hydrologic Unit 02060006, at Patuxent River Naval Air Test Station.

Owner: U.S. Navy.

AQUIFER.--Piney Point Formation of Upper Eocene age and the Nanjemoy Formation of Lower Eocene age.

Aquifer code: 124PNPN,124NNJM.

WELL CHARACTERISTICS.--Drilled, artesian well, depth 315 ft; casing diameter 4 in., to 295 ft; screen diameter 4 in. from 295 to 315 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

Equipped with digital water-level recorder--60-minute recording interval, Feb. 24, 2000 to current year.

DATUM.--Elevation of land surface is 3 ft above sea level.

Measuring point: Top of shelter platform, 1.70 ft above land surface.

REMARKS.--Naval Air Station Patuxent River Ground Water Hydrogeology project observation/production well.

Water levels are affected by local and regional ground-water withdrawal. Missing data due to recorder malfunction.

PERIOD OF RECORD.--Feb. 26, 1998 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.31 ft below sea level, April 27, 2000; lowest measured, 22.46 ft below sea level, Aug. 20, 2000.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	---	---	-18.36	-19.74
2	---	---	---	---	---	---	---	---	---	---	-18.36	-19.52
3	---	---	---	---	---	---	---	---	---	---	-18.63	-19.93
4	---	---	---	---	---	---	---	---	---	---	-18.53	-19.74
5	---	---	---	---	---	---	---	---	---	---	-18.35	-19.93
6	---	---	---	---	---	---	---	---	---	---	-18.55	-20.03
7	---	---	---	---	---	---	---	---	---	---	-18.40	-19.97
8	---	---	---	---	---	---	---	---	---	---	-18.61	-20.12
9	---	---	---	---	---	---	---	---	---	---	-18.66	-19.98
10	---	---	---	---	---	---	---	---	---	---	-18.44	-19.91
11	---	---	---	---	---	---	---	---	---	---	-18.47	-19.63
12	---	---	---	---	---	---	---	---	---	---	-18.19	-19.39
13	---	---	---	---	---	---	---	---	---	---	-18.68	-19.92
14	---	---	---	---	---	---	---	---	---	---	-18.49	-19.58
15	---	---	---	---	---	---	---	---	---	---	-18.56	-19.68
16	---	---	---	---	---	---	---	---	---	---	-18.53	-19.65
17	---	---	---	---	---	---	---	---	---	---	-18.41	-19.65
18	---	---	---	---	---	---	---	---	---	---	-18.38	-19.68
19	---	---	---	---	---	---	---	---	---	---	-18.19	-18.79
20	---	---	---	---	---	---	---	---	---	---	-18.00	-19.82
21	---	---	---	---	---	---	---	---	---	---	-17.66	-18.79
22	---	---	---	---	---	---	---	---	---	---	-17.91	-19.26
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	-17.90	-19.43
25	---	---	---	---	---	---	---	---	-18.93	-20.25	-18.24	-19.67
26	---	---	---	---	---	---	---	---	-18.60	-20.02	-18.38	-19.67
27	---	---	---	---	---	---	---	---	-18.46	-19.44	-17.90	-19.42
28	---	---	---	---	---	---	---	---	-18.79	-19.99	-17.92	-19.16
29	---	---	---	---	---	---	---	---	-18.73	-20.02	-18.05	-19.49
30	---	---	---	---	---	---	---	---	---	---	-18.20	-19.47
31	---	---	---	---	---	---	---	---	---	---	-18.19	-19.62
MONTH	---	---	---	---	---	---	---	---	-18.46	-20.25	-17.66	-20.12

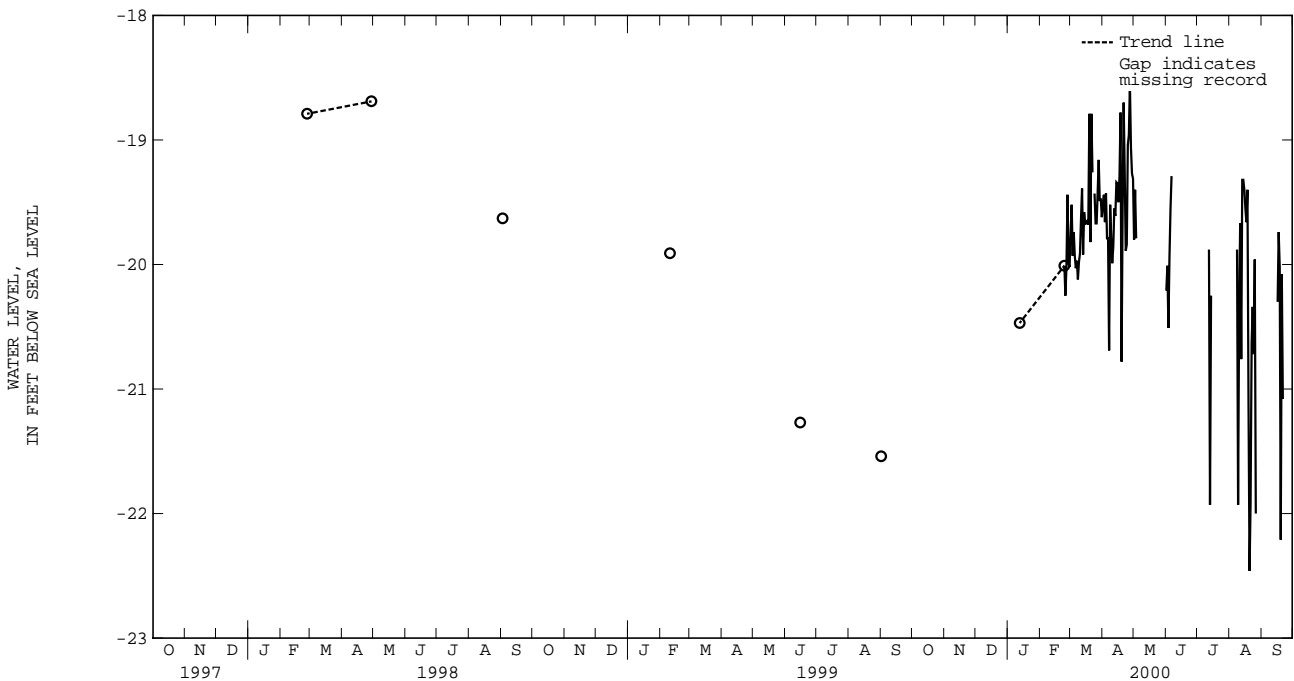
ST. MARYS COUNTY--Continued

SM Dg 21--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	-18.18	-19.51	-17.90	-19.80	-18.14	-20.21	---	---	---	---	---	---
2	-18.34	-19.44	-17.98	-19.40	-18.39	-20.01	---	---	---	---	---	---
3	-18.50	-19.66	-18.14	-19.79	-18.37	-20.51	---	---	---	---	---	---
4	-18.23	-19.43	---	---	-18.40	-19.95	---	---	---	---	---	---
5	-18.35	-19.79	---	---	-18.24	-19.56	---	---	---	---	---	---
6	-18.31	-19.79	---	---	-18.06	-19.29	---	---	---	---	---	---
7	-18.40	-20.69	---	---	---	---	---	---	---	---	---	---
8	-18.07	-19.52	---	---	---	---	---	---	-18.85	-19.88	---	---
9	-18.28	-19.79	---	---	---	---	---	---	-18.68	-21.93	---	---
10	-18.69	-19.99	---	---	---	---	---	---	-18.67	-20.37	---	---
11	-18.65	-19.86	---	---	---	---	---	---	-18.62	-19.67	---	---
12	-18.48	-19.55	---	---	---	---	-18.79	-19.88	-18.51	-20.76	---	---
13	-18.15	-19.61	---	---	---	---	-18.85	-21.93	-18.38	-19.32	---	---
14	-18.21	-19.34	---	---	---	---	-18.67	-20.25	-18.30	-19.32	---	---
15	-18.29	-19.35	---	---	---	---	---	---	-18.27	-19.40	---	---
16	-18.27	-19.50	---	---	---	---	---	---	-18.36	-19.55	-18.41	-20.30
17	-18.12	-19.29	---	---	---	---	---	---	-18.56	-19.66	-18.36	-19.74
18	-17.70	-18.78	---	---	---	---	---	---	-18.40	-19.40	-18.35	-20.02
19	-17.69	-20.78	---	---	---	---	---	---	-18.56	-21.12	-18.55	-22.21
20	-17.56	-19.54	---	---	---	---	---	---	-18.31	-22.46	-18.72	-20.08
21	-17.45	-18.70	---	---	---	---	---	---	-18.49	-21.92	-18.55	-21.08
22	-17.64	-19.26	---	---	---	---	---	---	-18.66	-20.63	---	---
23	-17.69	-19.89	---	---	---	---	---	---	-18.56	-20.34	---	---
24	-17.91	-19.84	---	---	---	---	---	---	-18.65	-20.72	---	---
25	-17.85	-19.04	---	---	---	---	---	---	-18.50	-19.96	---	---
26	-17.53	-18.96	---	---	---	---	---	---	-18.46	-22.00	---	---
27	-17.31	-18.55	---	---	---	---	---	---	---	---	---	---
28	-17.64	-19.06	---	---	---	---	---	---	---	---	---	---
29	-17.91	-19.27	---	---	---	---	---	---	---	---	---	---
30	-17.91	-19.31	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	-17.31	-20.78	-17.90	-19.80	-18.06	-20.51	-18.67	-21.93	-18.27	-22.46	-18.35	-22.21
YEAR	-17.31	-22.46										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

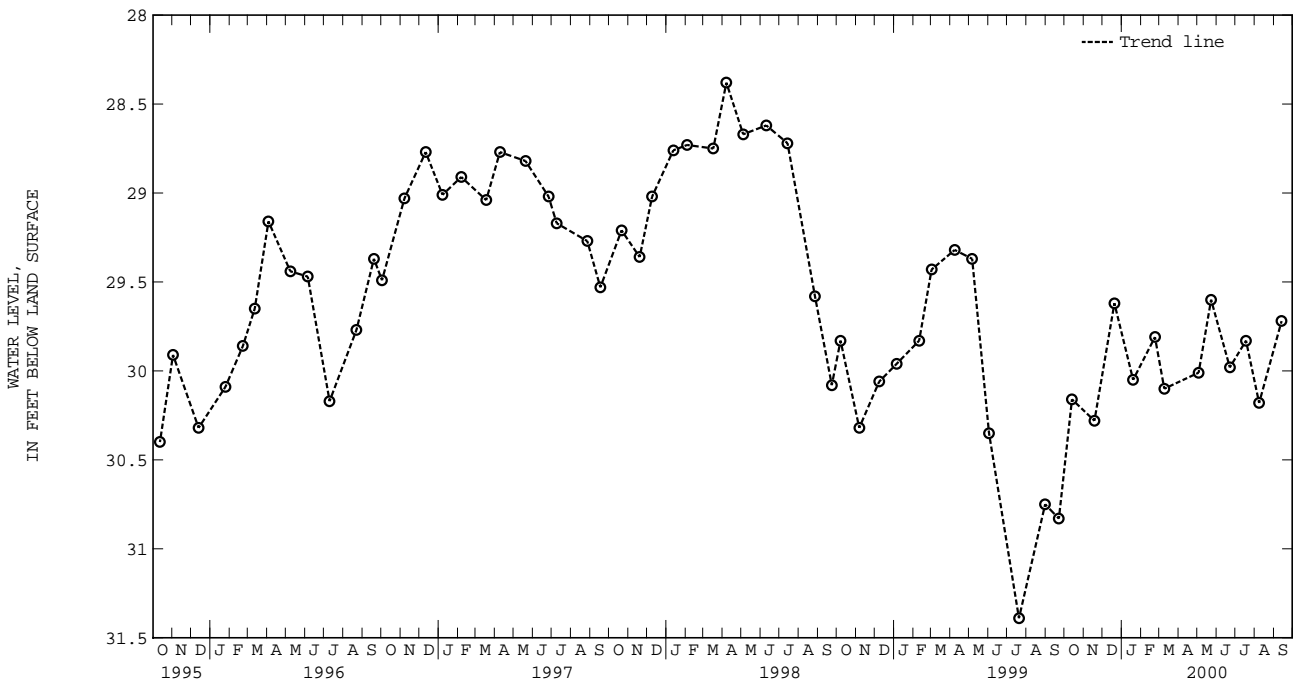
GROUND-WATER LEVELS IN MARYLAND--Continued

ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Eg 27. SITE ID.--381213076222801. PERMIT NUMBER.--SM-73-1993.
 LOCATION.--Lat 38°12'13", long 76°22'28", Hydrologic Unit 02060004, 1.6 miles east of St. James, at the St. Marys Co. Environmental Studies Area.
 Owner: U.S. Geological Survey.
 AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 320 ft; casing diameter 6 in., to 70 ft; casing diameter 2 in. from 70 to 310 ft; screen diameter 2 in. from 310 to 320 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 10 ft above sea level, from topographic map.
 Measuring point: Top of casing, 2.50 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.
 PERIOD OF RECORD.--August 1976 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.84 ft below land surface, May 12, 1978; lowest measured, 31.39 ft below land surface, July 20, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1999	30.16	JAN 19, 2000	30.05	MAY 03, 2000	30.01	JUL 18, 2000	29.83
NOV 18	30.28	FEB 23	29.81	23	29.60	AUG 08	30.18
DEC 20	29.62	MAR 09	30.10	JUN 22	29.98	SEP 13	29.72
WATER YEAR 2000 HIGHEST		29.60	MAY 23, 2000 LOWEST		30.28	NOV 18, 1999	

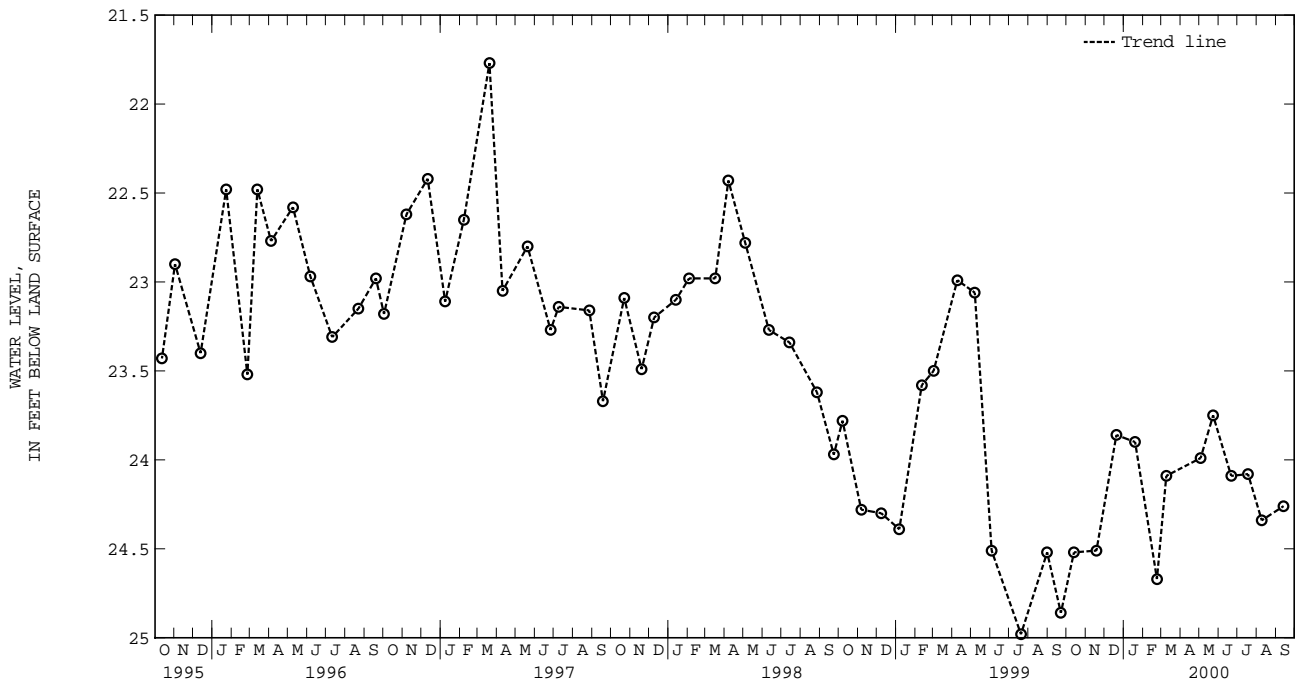


ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Fe 30. SITE ID.--380834076303401. PERMIT NUMBER.--SM-73-1917.
 LOCATION.--Lat 38°08'34", long 76°30'34", Hydrologic Unit 02070011, at water tower, Piney Point.
 Owner: U.S. Geological Survey.
 AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 270 ft; casing diameter 6 in., to 67 ft;
 casing diameter 2 in. from 67 to 260 ft; screen diameter 2 in. from 260 to 270 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic
 water-level recorder from Oct. 12, 1988 to Oct. 12, 1994.
 DATUM.--Elevation of land surface is 9 ft above sea level, from topographic map.
 Measuring point: Top of casing, 3.7 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.
 PERIOD OF RECORD.--August 1976 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.24 ft below land surface, Oct. 6, 1976;
 lowest measured, 24.98 ft below land surface, July 20, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1999	24.52	JAN 19, 2000	23.90	MAY 03, 2000	23.99	JUL 18, 2000	24.08
NOV 18	24.51	FEB 23	24.67	23	23.75	AUG 09	24.34
DEC 20	23.86	MAR 09	24.09	JUN 21	24.09	SEP 13	24.26
WATER YEAR 2000 HIGHEST 23.75		MAY 23, 2000		LOWEST 24.67		FEB 23, 2000	

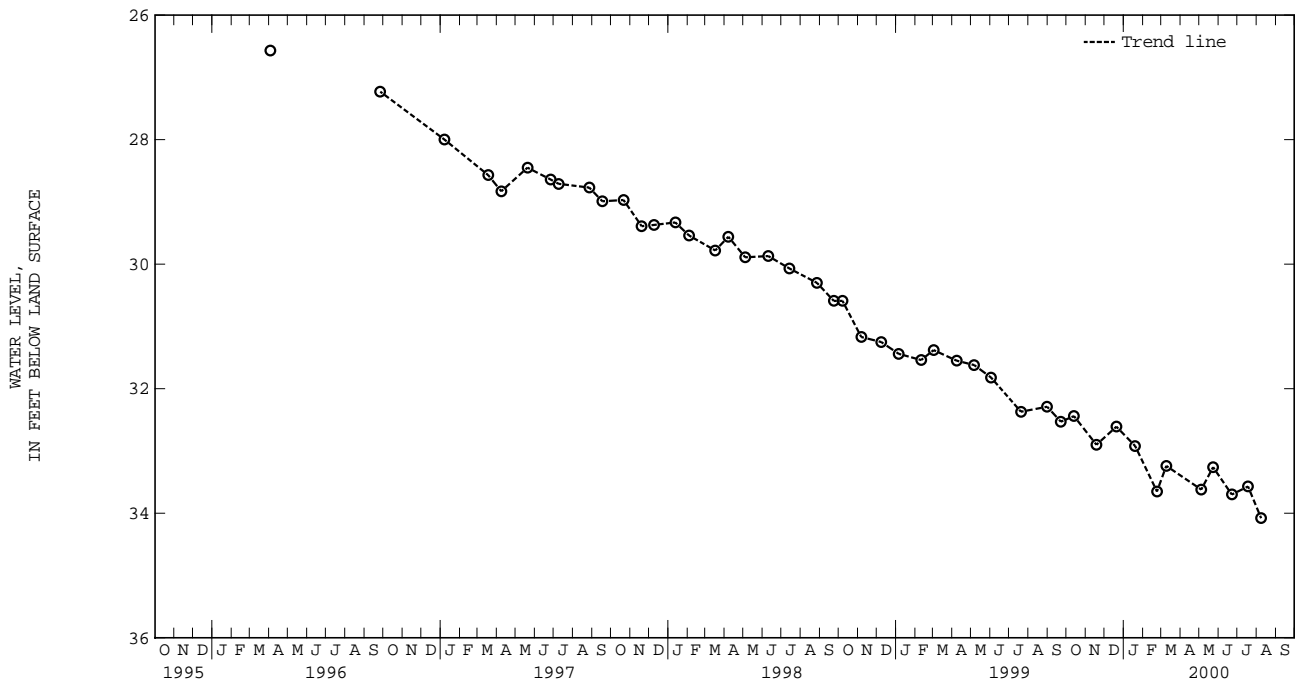


ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Ff 36. SITE ID.--380724076251901. PERMIT NUMBER.--SM-73-1478.
 LOCATION.--Lat 38°07'23", long 76°25'20", Hydrologic Unit 02070011, nr Kitts Point.
 Owner: Kitts Point Utility Company.
 AQUIFER.--Upper Patapsco aquifer in the Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.
 WELL CHARACTERISTICS.--Drilled, irrigation, artesian well, depth 618 ft; casing diameter 8 in., to 545 ft, and casing diameter 6 in. from 545 to 594 ft; screen diameter 6 in. from 594 to 618 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Twice yearly measurements from September 1982 to September 1996.
 DATUM.--Elevation of land surface is 5.50 ft above sea level, from topographic map.
 Measuring point: Top of casing, 1.5 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.
 PERIOD OF RECORD.--November 1978, September 1982 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.20 ft below land surface, Nov. 14, 1978; lowest measured, 34.08 ft below land surface, Aug. 8, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1999	32.44	JAN 19, 2000	32.92	MAY 04, 2000	33.62	JUL 18, 2000	33.57
NOV 18	32.90	FEB 23	33.65	23	33.26	AUG 08	34.08
DEC 20	32.61	MAR 09	33.24	JUN 22	33.70		
WATER YEAR 2000 HIGHEST 32.44		OCT 13, 1999		LOWEST 34.08		AUG 08, 2000	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Ff 64. SITE ID.--380821076255501.

LOCATION.--Lat 38°08'21", long 76°25'55", Hydrologic Unit 02070007, at Webster Field.

Owner: U.S. Navy.

AQUIFER.--Aquia Formation of Upper Paleocene age. Aquifer code: 125AQUI.

WELL CHARACTERISTICS.--Drilled, artesian well, depth 534 ft; casing depth unknown.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recording interval, September 21, 1999 to current year.

DATUM.--Elevation of land surface is 10 ft above sea level.

Measuring point: Top of shelter platform, 3.00 ft above land surface.

REMARKS.--Naval Air Station Patuxent River Ground Water Hydrogeology project observation well.

Water levels are affected by local ground-water withdrawal. Missing data due to recorder malfunction.

PERIOD OF RECORD.--September 3, 1998 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 76.64 ft below sea level, Sept. 3, 1998; lowest measured, 146.96 ft below sea level, Aug. 27, 2000.

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-83.09	-132.12	-80.29	-122.31	-80.99	-128.45	---	---	-79.28	-119.17	-81.47	-146.24
2	-81.59	-129.39	-80.55	-87.37	-81.37	-137.35	---	---	-80.55	-131.51	-80.90	-131.04
3	-81.32	-87.28	-79.96	-144.13	-81.73	-142.71	---	---	-80.95	-93.75	-80.55	-85.85
4	-80.68	-132.66	-84.49	-121.56	-81.49	-88.00	---	---	-80.06	-97.34	-80.55	-127.21
5	-82.47	-128.20	-82.54	-142.51	-79.75	-81.49	---	---	-80.56	-127.82	-79.72	-104.25
6	-82.76	-131.28	-81.73	-87.20	-79.62	-142.06	---	---	-79.59	-81.91	-81.60	-126.21
7	---	---	-80.36	-81.73	-80.96	-144.12	---	---	-79.20	-127.19	-80.66	-114.58
8	---	---	-79.91	-141.24	-81.70	-91.69	---	---	-80.11	-84.79	-80.94	-116.01
9	---	---	-83.16	-144.13	-81.01	-129.57	-80.31	-86.49	-79.90	-128.28	-81.26	-146.84
10	---	---	-82.55	-126.67	-82.33	-104.02	-78.78	-121.16	-80.52	-146.94	-80.92	-139.33
11	---	---	-81.79	-127.76	-81.08	-129.77	-80.82	-128.20	-80.17	-85.39	-81.79	-146.63
12	---	---	-82.03	-111.46	-81.48	-87.93	-81.26	-101.44	-79.60	-146.66	-79.73	-81.79
13	---	---	-80.83	-127.36	-80.61	-104.49	-80.99	-145.73	-79.71	-83.72	-79.54	-144.95
14	---	---	-80.94	-87.31	-79.88	-134.10	-81.62	-146.02	-78.80	-145.54	-80.98	-141.23
15	---	---	-80.31	-130.70	-81.98	-130.63	-80.58	-145.69	-81.26	-123.16	-81.54	-128.62
16	---	---	-81.57	-90.61	---	---	-81.15	-112.67	-80.21	-129.20	-80.87	-89.85
17	---	---	-81.36	-130.52	-81.38	-87.77	-79.78	-146.62	-80.76	-88.70	-80.31	-124.36
18	-80.79	-126.70	---	---	---	---	-80.71	-115.74	-80.25	-115.96	-81.35	-124.33
19	-83.03	-128.96	---	---	-81.55	-90.78	-79.71	-136.64	-79.96	-127.58	-80.12	-85.63
20	-83.09	-144.12	---	---	-80.96	-143.25	-79.90	-128.44	-80.21	-85.93	-79.73	-126.10
21	-84.61	-137.38	---	---	-81.49	-120.62	-80.35	-85.88	-79.09	-126.29	-80.67	-121.71
22	-82.65	-141.65	---	---	-81.46	-142.23	-79.99	-129.18	-80.76	-97.17	-79.87	-84.00
23	-81.71	-88.69	---	---	-82.42	-118.33	-81.71	-132.90	-79.96	-119.20	-79.67	-145.70
24	-80.59	-142.01	---	---	-81.03	-86.24	-82.29	-128.34	-81.14	-116.06	-80.06	-144.02
25	-82.33	-116.12	---	---	-79.68	-81.03	-80.53	-86.04	-81.11	-143.23	-80.27	-88.15
26	-81.39	-144.13	---	---	-78.62	-128.37	-79.03	-145.89	-80.69	-87.33	-78.87	-80.27
27	-81.87	-129.62	---	---	-81.07	-115.74	-81.90	-107.59	-79.01	-83.27	-78.84	-146.43
28	-82.66	-124.34	---	---	-79.14	-81.07	-80.77	-146.23	-81.52	-144.73	-79.57	-122.48
29	-81.38	-131.33	-80.04	-128.37	-78.88	-133.71	-80.40	-84.95	-80.37	-119.49	-80.33	-143.74
30	-83.60	-110.99	-81.04	-86.27	---	---	-79.45	-144.01	---	---	-80.58	-126.72
31	-80.91	-84.71	---	---	---	---	-79.76	-84.76	---	---	-80.63	-91.95
MONTH	-80.59	-144.13	-79.91	-144.13	-78.62	-144.12	-78.78	-146.62	-78.80	-146.94	-78.84	-146.84

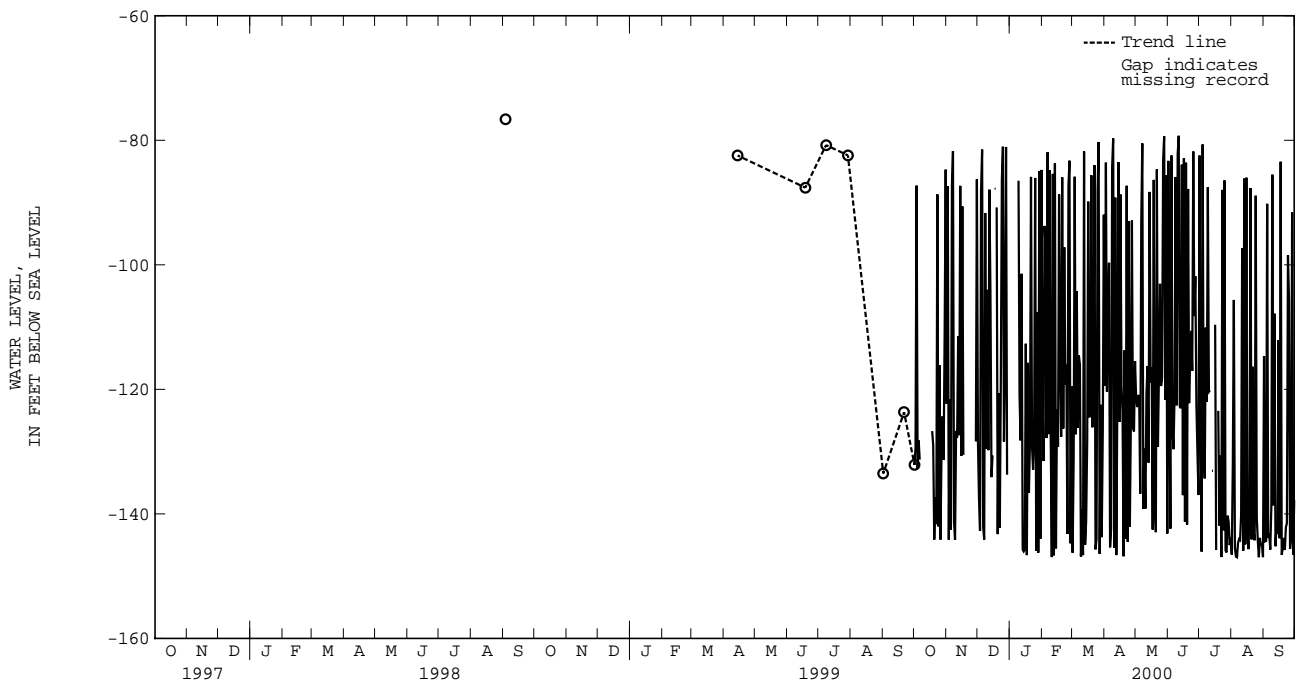
ST. MARYS COUNTY--Continued

SM Ff 64--Continued

WATER LEVELS, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	-79.66	-119.40	-80.13	-121.09	-79.01	-83.30	-79.02	-82.45	-85.23	-146.54	-82.30	-114.68
2	-79.43	-83.59	-80.90	-122.85	-78.82	-119.29	-78.35	-123.81	-85.98	-132.34	-82.91	-144.41
3	-79.06	-120.37	-81.64	-120.90	-79.29	-142.37	-80.67	-146.05	-83.89	-105.64	-81.17	-144.35
4	-80.85	-106.36	-81.42	-121.40	-79.06	-82.44	-78.83	-80.67	-83.84	-145.47	-81.53	-90.20
5	-79.64	-99.67	-80.60	-136.75	-78.56	-126.57	-78.36	-130.13	-83.04	-146.84	-81.23	-143.89
6	-81.90	-145.37	-80.50	-93.03	-79.22	-129.61	-79.59	-134.30	-82.24	-146.95	-81.63	-143.14
7	-80.63	-142.41	-78.88	-80.50	-79.93	-120.62	-80.04	-110.08	-82.73	-144.68	-82.29	-145.74
8	-79.71	-84.29	-78.38	-139.17	-79.72	-85.89	-79.65	-121.99	-83.05	-144.06	-83.03	-138.93
9	-79.02	-79.71	-79.95	-129.54	-79.24	-122.57	-79.82	-87.55	-82.53	-144.21	-81.33	-85.52
10	-78.62	-145.40	-80.87	-139.15	-79.27	-82.16	-79.10	-120.39	-83.79	-140.20	-80.95	-138.62
11	-80.21	-89.21	-80.96	-120.69	-78.26	-79.27	-80.91	-120.16	-82.07	-97.33	-82.14	-107.84
12	-79.87	-146.62	-80.14	-116.28	-78.19	-122.70	---	---	-81.14	-145.91	-82.76	-145.20
13	-80.76	-121.94	-80.04	-131.77	-79.83	-123.03	-89.26	-133.08	-80.80	-86.15	-82.76	-141.87
14	-79.53	-83.50	-80.46	-88.29	-79.17	-83.91	---	---	-80.19	-144.90	-82.39	-143.23
15	-78.89	-125.23	-79.87	-118.94	-78.95	-136.99	---	---	-80.64	-86.00	-82.82	-112.10
16	-79.74	-88.71	-81.22	-116.49	-79.22	-82.90	-91.38	-109.62	-80.51	-142.12	-83.44	-143.92
17	-78.53	-119.57	-80.70	-142.52	-78.88	-141.25	-89.55	-145.80	-81.42	-145.66	-81.17	-83.44
18	-80.00	-123.68	-80.11	-86.36	-79.40	-83.60	---	---	-81.35	-140.32	-81.17	-146.57
19	-79.05	-146.81	-80.11	-137.92	-78.57	-141.71	-87.54	-123.45	-81.12	-87.66	-82.99	-145.52
20	-81.42	-113.72	-80.16	-142.94	-79.64	-87.81	-85.47	-141.86	-79.72	-144.10	-84.07	-143.86
21	-79.55	-144.02	-79.65	-84.68	-78.96	-122.22	-84.20	-130.65	-81.47	-116.37	-84.36	-145.80
22	-80.03	-87.30	-78.93	-129.21	-79.41	-113.59	-83.00	-146.94	-80.66	-142.91	-83.99	-142.16
23	-78.74	-144.50	-79.68	-117.27	-79.80	-110.61	-82.19	-87.96	-81.86	-144.24	-82.50	-141.47
24	-80.03	-92.97	-80.95	-103.05	-80.31	-117.03	-81.25	-142.64	-81.19	-88.90	-82.53	-98.49
25	-79.20	-142.10	-80.36	-119.47	-79.00	-81.80	-81.35	-86.45	-81.13	-140.62	-83.92	-105.62
26	-80.13	-125.15	-80.01	-118.17	-78.54	-108.23	-78.27	-145.87	-82.10	-144.23	-83.09	-145.63
27	-80.00	-92.89	-79.36	-83.22	-79.84	-101.84	-80.64	-146.19	-82.88	-146.96	-83.21	-143.85
28	-79.16	-126.10	-78.18	-79.36	-80.80	-122.55	-79.85	-140.29	-82.93	-143.85	-82.68	-91.60
29	-79.98	-126.76	-77.78	-121.65	-79.89	-130.17	-82.40	-141.28	-82.35	-145.13	-82.45	-146.53
30	-80.86	-115.45	-78.88	-85.60	-80.79	-136.97	-81.69	-145.02	-82.71	-144.71	-82.59	-137.81
31	---	---	-78.40	-143.15	---	---	-81.58	-143.75	-82.66	-146.95	---	---
MONTH	-78.53	-146.81	-77.78	-143.15	-78.19	-142.37	-78.27	-146.94	-79.72	-146.96	-80.95	-146.57
YEAR	-77.78	-146.96										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

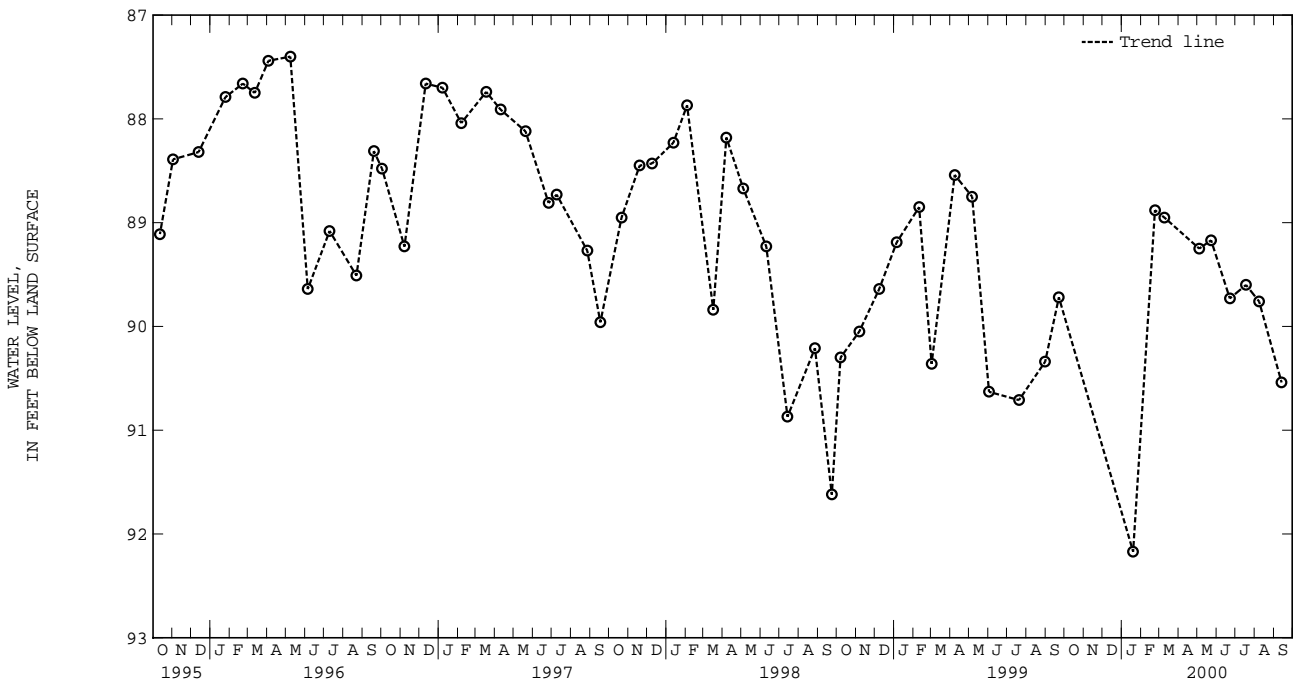
ST. MARYS COUNTY--Continued

WELL NUMBER.--SM Fg 45. SITE ID.--38071107622201. PERMIT NUMBER.--SM-04-5190.
 LOCATION.--Lat 38°07'11", long 76°22'22", Hydrologic Unit 02070011, in Ridge Volunteer Fire Department pumphouse, at Ridge.
 Owner: Ridge Volunteer Fire Department.
 AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 436 ft; casing diameter 6 in., to 386 ft; casing diameter 4 in. from 415 to 436 ft; screen diameter 5 in. from 386 to 415 ft.
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 65 ft above sea level, from topographic map.
 Measuring point: Hole in sanitary seal, 0.55 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal.
 PERIOD OF RECORD.--May 1966 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 74.83 ft below land surface, May 16, 1967; lowest measured, 92.17 ft below land surface, Jan. 19, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 19, 2000	92.17	MAY 04, 2000	89.25	JUL 18, 2000	89.60
FEB 23	88.88	23	89.17	AUG 08	89.76
MAR 09	88.95	JUN 22	89.73	SEP 13	90.54

WATER YEAR 2000 HIGHEST 88.88 FEB 23, 2000 LOWEST 92.17 JAN 19, 2000



SOMERSET COUNTY

WELL NUMBER.--SO Be 42. SITE ID.--381156075412501.

LOCATION.--Lat 38°11'56", long 75°41'25", Hydrologic Unit 02060009, .1 mi northeast of US Rt. 13 and Hampton Ave., Princess Anne.

Owner: E. Mace Smith.

AQUIFER.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, measured depth 184 ft; casing diameter 2 in., to unknown depth.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 17 ft above sea level, from topographic map.

Measuring point: Top of casing, 2.28 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--August 1952 to current year.

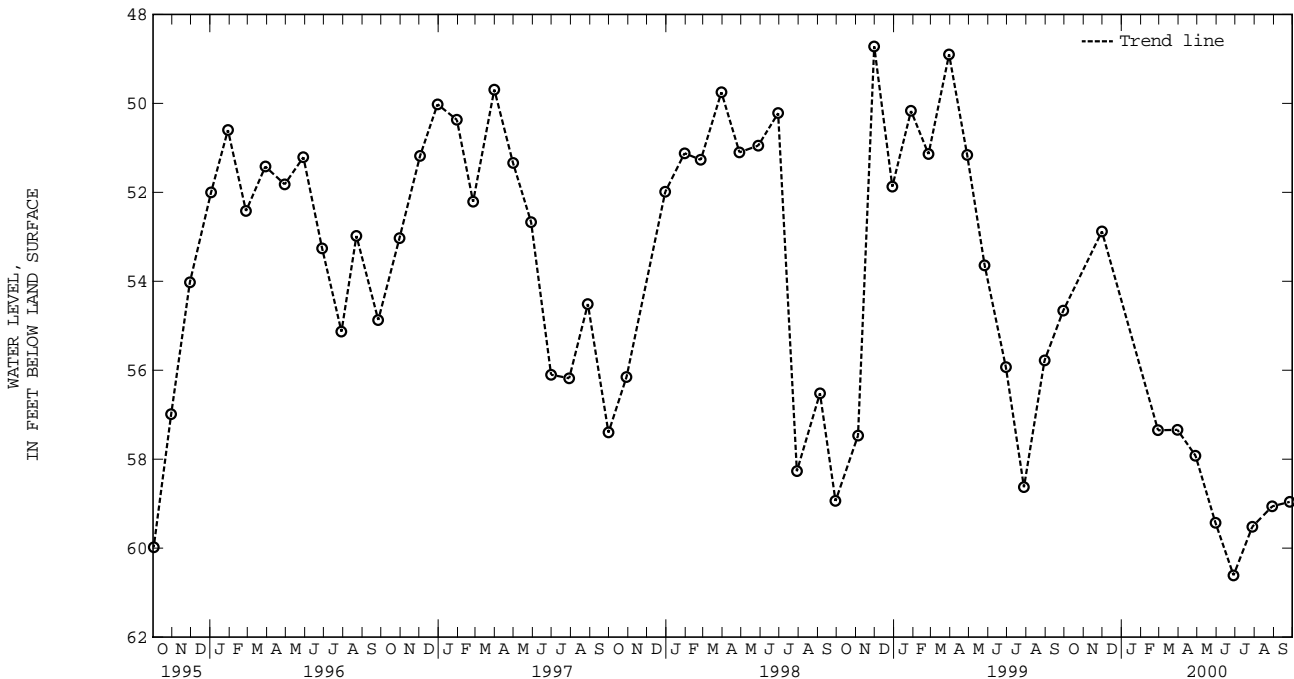
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.15 ft below land surface, May 1, 1953;

lowest measured, 65.72 ft below land surface, July 26, 1991.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 30, 1999	52.88	APR 28, 2000	57.92	JUL 28, 2000	59.52
FEB 28, 2000	57.35	MAY 30	59.43	AUG 29	59.06
MAR 30	57.34	JUN 28	60.61	SEP 26	58.96

WATER YEAR 2000 HIGHEST 52.88 NOV 30, 1999 LOWEST 60.61 JUN 28, 2000



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

SOMERSET COUNTY--Continued

WELL NUMBER.--SO Ce 42. SITE ID.--380927075423701. PERMIT NUMBER.--SO-81-0394.

LOCATION.--Lat 38°09'30", long 75°41'56", Hydrologic Unit 02060009, at Eastern Shore Correctional Institution.

Owner: Maryland Department of Correction.

AQUIFER.--Manokin aquifer of Miocene age. Aquifer code: 122MNKN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 215 ft; casing diameter 4 in., to 185 ft; screen diameter 4 in. from 185 to 215 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recording interval, from Jan. 2, 1986 to current year.

DATUM.--Altitude of land surface is 10 ft above sea level, from topographic map.

Measuring Point: Top of recorder shelf, 2.10 ft above land surface.

REMARKS.--Water levels affected by nearby pumping. Water levels are affected by local ground-water withdrawal.

Missing data due to recorder malfunction.

ERIOD OF RECORD.--January 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.97 ft below land surface, Feb. 21, 1986; lowest measured, 51.90 ft below land surface, Aug. 7, 1991.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	37.19	37.05	36.77	36.67	36.34	36.24	36.36	36.25	35.68	35.62	36.52	36.38
2	37.17	37.08	36.69	36.35	36.25	36.11	36.27	36.15	35.75	35.67	36.47	36.34
3	37.21	37.09	36.60	36.35	36.24	36.08	36.16	36.07	35.75	35.67	36.56	36.47
4	37.17	37.07	36.74	36.56	36.27	36.19	36.08	35.90	35.75	35.66	36.56	36.44
5	37.19	37.07	36.73	36.67	36.24	36.13	36.02	35.88	35.84	35.69	36.59	36.45
6	37.18	37.02	36.69	36.63	36.17	36.01	36.01	35.90	35.97	35.82	36.62	36.49
7	37.22	37.03	36.67	36.60	36.19	36.09	35.92	35.76	36.01	35.91	36.63	36.52
8	37.23	37.11	36.65	36.50	36.20	36.09	35.88	35.79	36.11	36.01	36.60	36.49
9	37.19	37.09	36.57	36.40	36.22	36.12	35.84	35.70	36.08	36.01	36.60	36.48
10	37.19	37.09	36.53	36.44	36.19	36.00	35.76	35.52	36.12	36.01	36.67	36.50
11	37.17	37.07	36.56	36.46	36.18	36.11	35.66	35.52	36.17	36.03	36.68	36.54
12	37.18	37.07	36.55	36.32	36.18	36.12	35.74	35.66	36.24	36.17	36.67	36.46
13	37.14	36.99	36.44	36.33	36.16	36.00	35.69	35.58	36.25	36.17	36.77	36.67
14	37.19	36.99	36.44	36.26	36.04	35.82	35.76	35.69	36.18	36.00	36.73	36.65
15	37.20	37.13	36.39	36.30	35.99	35.87	35.75	35.68	36.32	36.16	36.73	36.64
16	37.17	37.09	36.33	36.29	35.97	35.86	35.68	35.54	36.31	36.15	36.73	36.58
17	37.13	36.87	36.38	36.32	36.09	35.97	35.68	35.62	36.46	36.30	36.74	36.54
18	36.97	36.87	36.38	36.30	36.08	36.03	35.66	35.52	36.42	36.25	36.78	36.72
19	37.00	36.86	36.39	36.30	36.07	35.95	35.55	35.41	36.36	36.21	36.75	36.63
20	36.94	36.80	36.35	36.24	35.98	35.77	35.50	35.25	36.42	36.29	36.71	36.57
21	36.89	36.76	36.35	36.25	36.00	35.80	35.60	35.42	36.47	36.33	36.66	36.26
22	36.82	36.65	36.34	36.21	36.02	35.91	35.64	35.58	36.51	36.39	36.51	36.32
23	36.78	36.59	36.33	36.21	36.01	35.83	35.64	35.58	36.51	36.45	36.51	36.35
24	36.85	36.70	36.34	36.19	36.01	35.89	35.62	35.55	36.51	36.44	36.52	36.34
25	36.88	36.76	36.32	36.17	36.01	35.93	35.55	35.29	36.54	36.44	36.52	36.40
26	36.84	36.65	36.28	36.09	35.97	35.75	35.52	35.37	36.56	36.51	---	---
27	36.85	36.73	36.23	36.12	35.88	35.82	35.64	35.50	36.54	36.46	36.50	36.27
28	36.85	36.72	36.25	36.18	35.88	35.79	35.70	35.64	36.50	36.45	36.35	36.19
29	36.83	36.73	36.27	36.19	35.85	35.78	35.76	35.70	36.53	36.49	36.47	36.33
30	36.85	36.78	36.34	36.22	36.14	35.83	35.74	35.51	---	---	36.51	36.39
31	36.84	36.71	---	---	36.34	36.14	35.63	35.51	---	---	36.52	36.44
MONTH	37.23	36.59	36.77	36.09	36.34	35.75	36.36	35.25	36.56	35.62	36.78	36.19

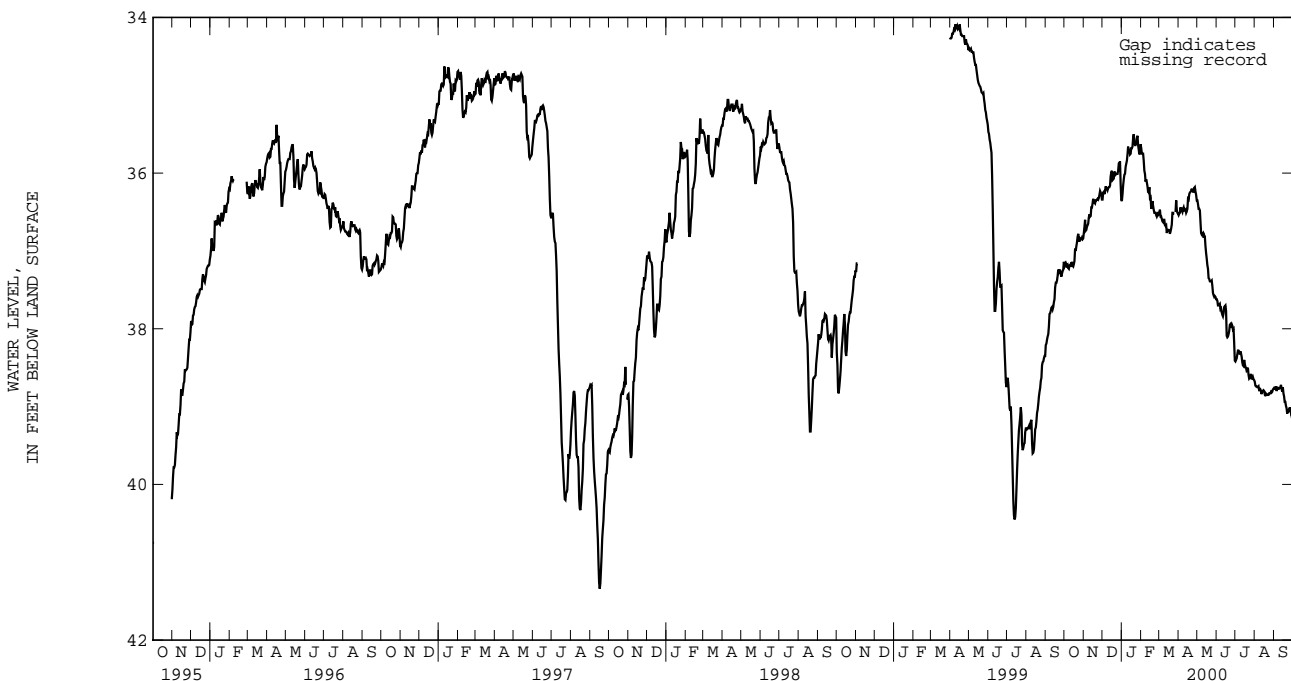
SOMERSET COUNTY--Continued

SO Ce 42--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	36.54	36.45	36.35	36.17	37.62	37.45	38.42	38.26	38.68	38.43	38.76	38.61
2	36.52	36.43	36.40	36.09	37.64	37.48	38.40	38.24	38.73	38.48	38.77	38.63
3	36.51	36.42	36.46	36.32	37.70	37.47	38.38	38.18	38.74	38.57	38.77	38.64
4	36.44	36.28	36.46	36.34	37.70	37.55	38.33	38.10	38.74	38.59	38.74	38.62
5	36.48	36.36	36.48	36.29	37.69	37.53	38.28	38.13	38.75	38.65	38.80	38.70
6	36.48	36.34	36.63	36.36	37.68	37.49	38.28	38.15	38.75	38.61	38.77	38.65
7	36.50	36.40	36.77	36.58	37.75	37.61	38.29	38.17	38.74	38.64	38.76	38.66
8	36.46	36.29	36.79	36.64	37.74	37.59	38.33	38.22	38.79	38.71	38.77	38.66
9	36.44	36.26	36.78	36.62	37.79	37.67	38.29	38.18	38.79	38.69	38.77	38.68
10	36.48	36.41	36.77	36.64	37.82	37.73	38.32	38.18	38.78	38.69	38.76	38.67
11	36.48	36.39	36.83	36.72	37.84	37.74	38.36	38.20	38.80	38.71	38.76	38.64
12	36.47	36.37	36.80	36.65	37.80	37.61	38.43	38.25	38.84	38.66	38.72	38.59
13	36.51	36.43	36.82	36.68	37.72	37.59	38.47	38.32	38.80	38.71	38.77	38.57
14	36.49	36.41	36.94	36.71	37.71	37.54	38.48	38.35	38.80	38.66	38.81	38.65
15	36.46	36.24	37.03	36.84	37.70	37.56	38.40	38.19	38.79	38.64	38.75	38.48
16	36.33	36.19	37.10	36.92	37.77	37.48	38.45	38.27	38.80	38.62	38.83	38.67
17	36.34	36.22	37.18	36.96	38.09	37.72	38.49	38.30	38.84	38.72	38.87	38.74
18	36.27	36.13	37.23	37.05	38.11	38.01	38.50	38.36	38.83	38.60	38.94	38.82
19	36.25	36.11	37.35	37.15	38.10	37.98	38.54	38.40	38.85	38.75	38.94	38.70
20	36.24	36.08	37.36	37.25	38.07	37.95	38.53	38.40	38.84	38.72	38.99	38.85
21	36.23	35.99	37.39	37.21	38.03	37.89	38.50	38.36	38.85	38.76	39.02	38.92
22	36.20	36.01	37.39	37.25	37.95	37.77	38.59	38.43	38.85	38.76	39.09	38.99
23	36.23	36.05	37.39	37.26	37.94	37.85	38.64	38.54	38.85	38.70	39.06	38.91
24	36.24	36.13	37.38	37.16	37.96	37.86	38.63	38.52	38.83	38.72	39.05	38.91
25	36.24	36.17	37.45	37.31	37.94	37.84	38.61	38.49	38.83	38.69	39.07	38.92
26	36.19	36.06	37.54	37.44	37.96	37.84	38.58	38.44	38.83	38.69	39.01	38.83
27	36.18	36.00	37.57	37.51	38.01	37.86	38.64	38.44	38.81	38.68	39.03	38.84
28	36.24	36.09	37.59	37.51	38.00	37.87	38.64	38.49	38.82	38.63	39.08	38.86
29	36.28	36.20	37.58	37.44	38.18	37.85	38.62	38.59	38.81	38.65	39.12	38.99
30	36.35	36.19	37.59	37.43	38.41	38.07	38.65	38.50	38.78	38.59	39.10	38.94
31	---	---	37.62	37.45	---	---	38.66	38.45	38.77	38.58	---	---
MONTH	36.54	35.99	37.62	36.09	38.41	37.45	38.66	38.10	38.85	38.43	39.12	38.48
YEAR	39.12	35.25										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

SOMERSET COUNTY--Continued

WELL NUMBER.--SO Cf 2. SITE ID.--380616075380701.

LOCATION.--Lat 38°06'16", long 75°38'07", Hydrologic Unit 02060009, on U.S. Rt. 13, 4.5 mi west of intersection of U.S. Rt. 13, and MD Rt. 364, near Costen.

Owner: Maryland State Highway Administration.

AQUIFER.--Kent Island Formation of Pleistocene age. Aquifer code: 112KILD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 15 ft; casing diameter 1.25 in., to unknown depth.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 20 ft above sea level, from topographic map.

Measuring point: Top of casing, 1.00 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--August 1949 to current year.

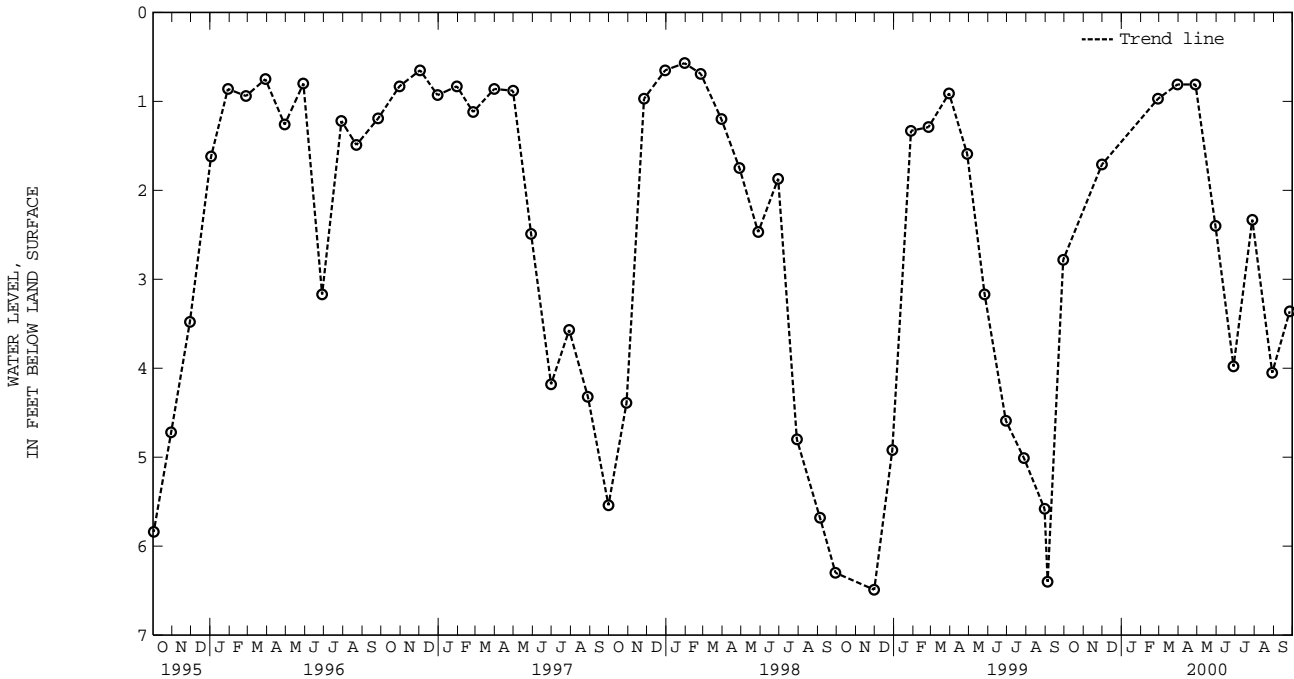
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.28 ft below land surface, May 9, 1958;

lowest measured, 6.49 ft below land surface, Nov. 30, 1998.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 30, 1999	1.71	APR 28, 2000	.81	JUL 28, 2000	2.33
FEB 28, 2000	.97	MAY 30	2.40	AUG 29	4.05
MAR 30	.81	JUN 28	3.98	SEP 26	3.36

WATER YEAR 2000 HIGHEST .81 MAR 30, 2000 APR 28, 2000 LOWEST 4.05 AUG 29, 2000



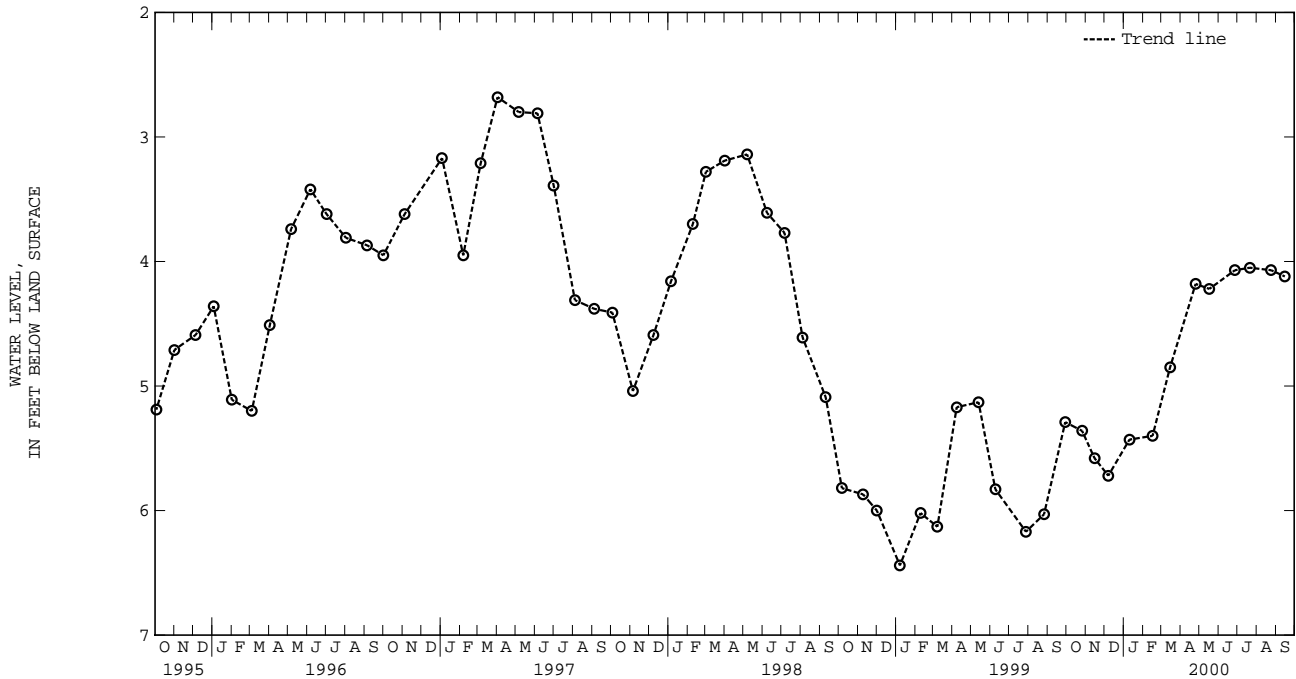
5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

TALBOT COUNTY--Continued

WELL NUMBER.--TA Cc 35. SITE ID.--384923076100601. PERMIT NUMBER.--TA-73-0767.
 LOCATION.--Lat 38°49'23", long 76°10'06", Hydrologic Unit 02060002, at Tunis Mills.
 Owner: U.S. Geological Survey.
 AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 180 ft; casing diameter 6 to 2 in.;
 screened from 170 to 180 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 5 ft above sea level, from topographic map.
 Measuring point: Top of casing, 1.28 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.
 PERIOD OF RECORD.--August 1976 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.97 ft below land surface, April 2, 1980;
 lowest measured, 6.44 ft below land surface, Jan. 7, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 1999	5.36	JAN 10, 2000	5.43	APR 25, 2000	4.18	JUL 21, 2000	4.05
NOV 15	5.58	FEB 16	5.40	MAY 17	4.22	AUG 24	4.07
DEC 07	5.72	MAR 15	4.85	JUN 27	4.07	SEP 15	4.12
WATER YEAR 2000 HIGHEST		4.05	JUL 21, 2000 LOWEST		5.72	DEC 07, 1999	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

TALBOT COUNTY--Continued

WELL NUMBER.--TA Cc 36. SITE ID.--384514076103701. PERMIT NUMBER.--TA-73-0751.

LOCATION.--Lat 38°45'14", long 76°10'37", Hydrologic Unit 02060002, at Newcomb.

Owner: U.S. Geological Survey.

AQUIFER.--Piney Point Formation of Middle Eocene age. Aquifer code: 124PNPN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 241 ft; casing diameter 6 in., to 57 ft; casing diameter 2 in. from 51 to 231 ft; screen diameter 2 in. from 231 to 241 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 7 ft above sea level, from topographic map.

Measuring point: Top of casing, 0.40 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.

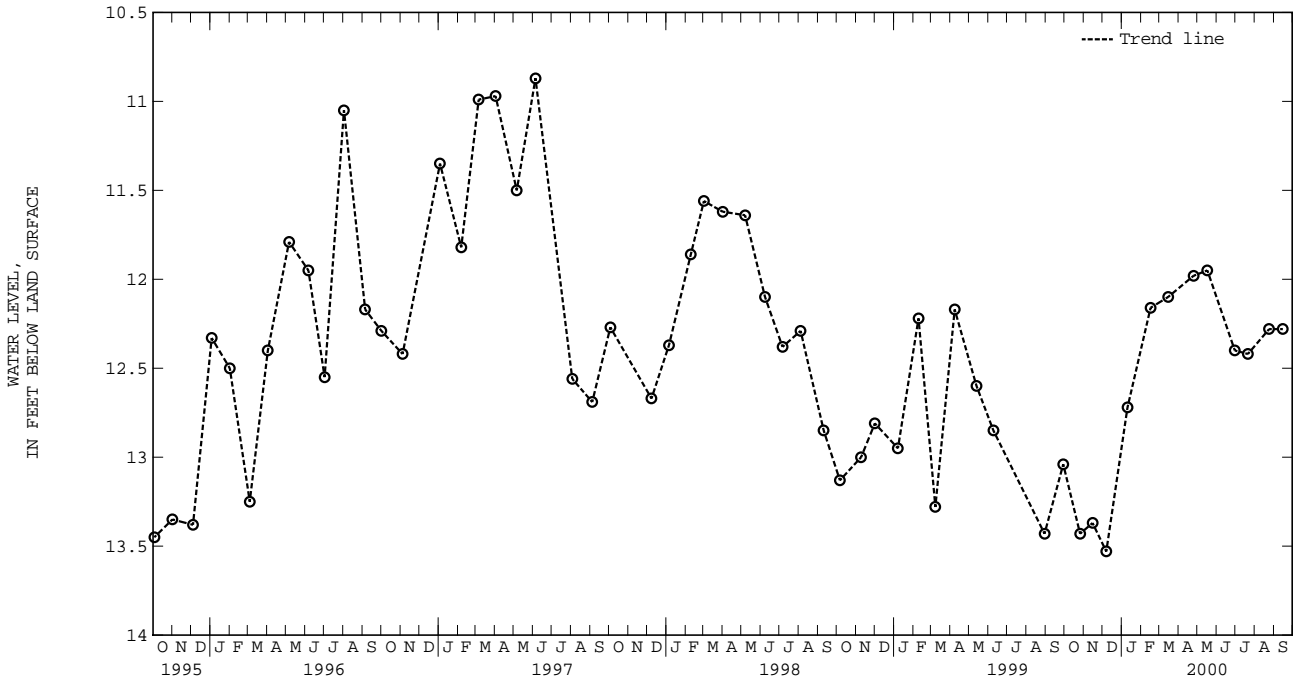
PERIOD OF RECORD.--October 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.89 ft below land surface, April 2, 1980;

lowest measured, 14.30 ft below land surface, Nov. 3, 1994.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 1999	13.43	JAN 10, 2000	12.72	APR 25, 2000	11.98	JUL 21, 2000	12.42
NOV 15	13.37	FEB 16	12.16	MAY 17	11.95	AUG 24	12.28
DEC 07	13.53	MAR 15	12.10	JUN 30	12.40	SEP 15	12.28
WATER YEAR 2000 HIGHEST		11.95	MAY 17, 2000 LOWEST		13.53	DEC 07, 1999	



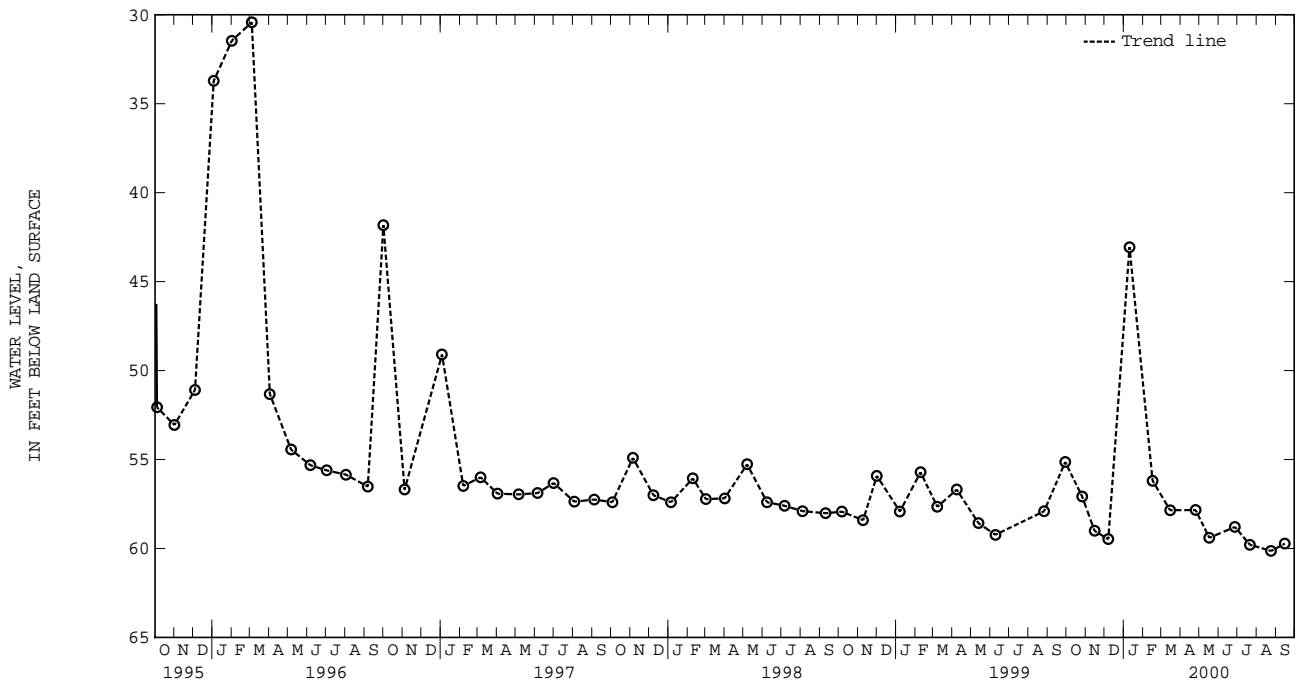
5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

TALBOT COUNTY--Continued

WELL NUMBER.--TA Cd 57. SITE ID.--384709076050301. PERMIT NUMBER.--TA-88-1328.
 LOCATION.--Lat 38°47'09", long 076°05'03", Hydrologic Unit 02060005, in Easton, 0.3 mi southwest of the intersection with Glebe Rd and Commerce Drive.
 Owner: Easton Utilities Commission.
 AQUIFER.--Upper Patapsco Formation of Lower Cretaceous age. Aquifer code: 217PPSCU.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 WELL CHARACTERISTICS.--Drilled, unused, artesian well, depth 1,198 ft; casing diameter 4 in., to 295 ft; casing diameter 2 in. from 260 to 1,137 ft, and 1,158 to 1,198 ft; screen diameter 2 in. from 1,137 to 1,158 ft.
 DATUM.--Elevation of land surface is 12 ft above sea level, from topographic map.
 Measuring point: Top of casing, 3.78 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local and regional ground-water withdrawal.
 PERIOD OF RECORD.--October 1995 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 30.42 ft below land surface, March 4, 1996; lowest measured, 59.23 ft below land surface, June 9, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 1999	57.07	JAN 10, 2000	43.06	APR 25, 2000	57.84	JUL 21, 2000	59.79
NOV 15	59.01	FEB 16	56.19	MAY 17	59.40	AUG 24	60.14
DEC 07	59.48	MAR 15	57.85	JUN 27	58.79	SEP 15	59.73
WATER YEAR 2000 HIGHEST 43.06 JAN 10, 2000		LOWEST 60.14		AUG 24, 2000			



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

TALBOT COUNTY--Continued

WELL NUMBER.--TA Ce 7. SITE ID.--384643076043801.

LOCATION.--Lat 38°46'43", long 76°04'38", Hydrologic Unit 02060005, in Easton.

Owner: Easton Utilities Commission.

AQUIFER.--Cheswold aquifer of the Calvert Formation of Miocene age. Aquifer code: 122CSLD.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, measured depth 104 ft; casing diameter 4 in., to 95 ft; screen diameter 4 in from 95 to 102 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 13 ft above sea level, from topographic map.

Measuring point: Top of casing, 1.40 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water level reported 43.43 ft below land surface, Oct. 7, 1948.

Water levels are affected by local ground-water withdrawal.

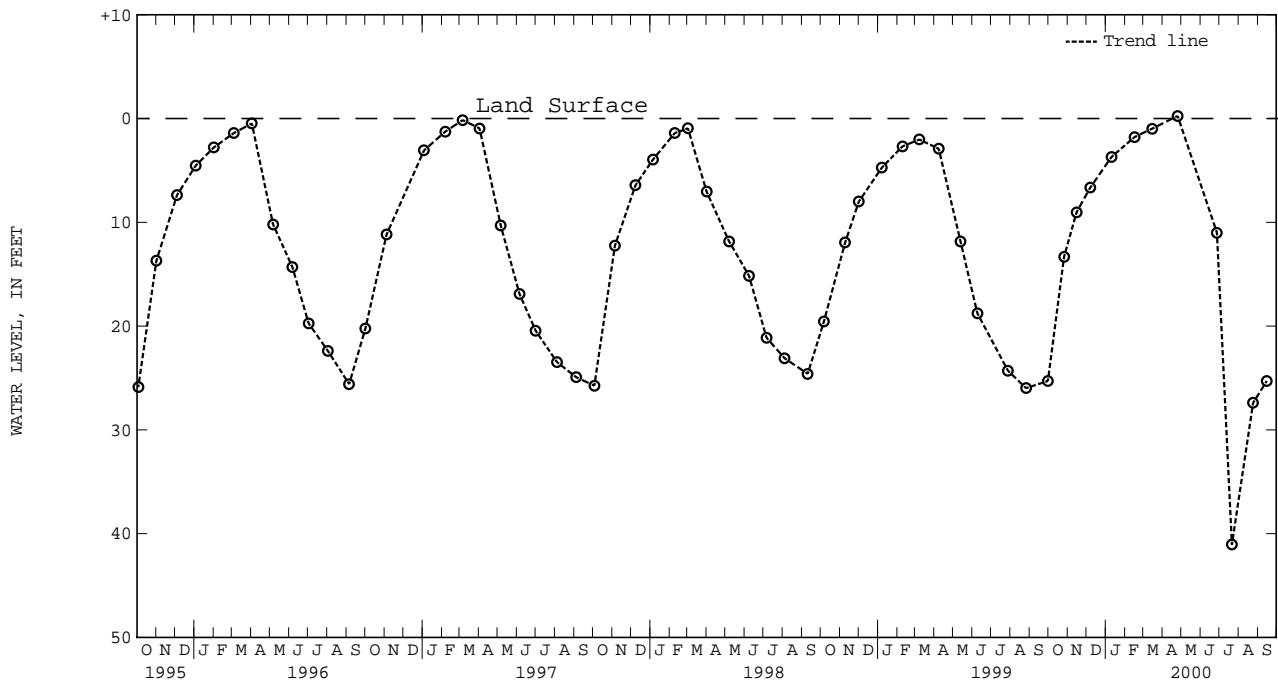
PERIOD OF RECORDS.--April 1956 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, +.25 ft above land surface, April 25, 2000;

lowest measured 75.36 ft below land surface, Aug. 2, 1966.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
(READINGS ABOVE LAND SURFACE INDICATED BY "+")

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 1999	13.31	JAN 10, 2000	3.70	APR 25, 2000	+.25	AUG 24, 2000	27.39
NOV 15	9.03	FEB 16	1.78	JUN 27	11.00	SEP 15	25.28
DEC 07	6.65	MAR 15	.98	JUL 21	41.05		
WATER YEAR 2000 HIGHEST		+.25 APR 25, 2000		LOWEST		41.05 JUL 21, 2000	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

WASHINGTON COUNTY

WELL NUMBER.--WA Ac 1. SITE ID.--394154078103501.

LOCATION.--Lat 39°41'54", long 78°10'35", Hydrologic Unit 02070004, at Hancock.

Owner: Harry R. Barker.

AQUIFER.--Romney Formation of Middle Devonian age. Aquifer code: 344RMNY.

WELL CHARACTERISTICS.--Drilled, unused, water-table well, depth 83 ft; casing diameter 4 in., to unknown depth; open hole.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land-surface is 440 ft above sea level, from topographic map.

Measuring point: Removable plug in base of hand pump, 0.60 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

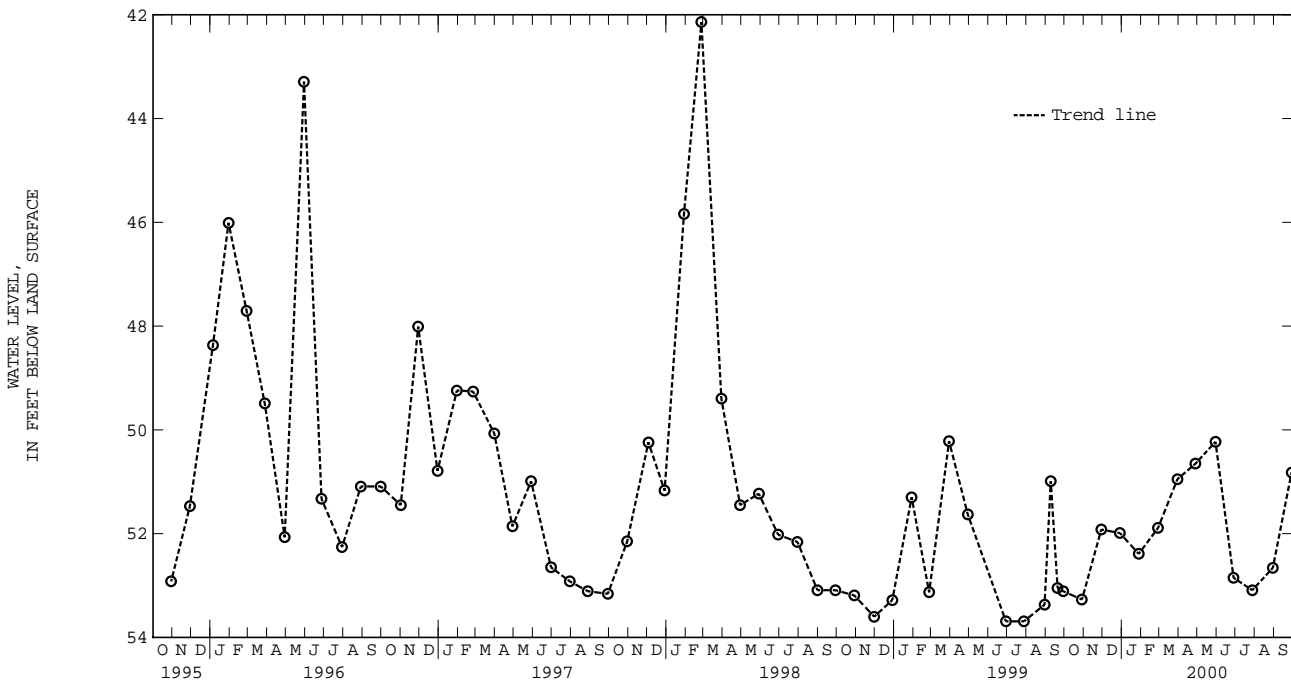
PERIOD OF RECORD.--October 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 35.65 ft below land surface, Jan. 2, 1976;

lowest measured, 58.18 ft below land surface, Nov. 23, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29, 1999	53.27	JAN 28, 2000	52.39	APR 28, 2000	50.65	JUL 28, 2000	53.09
NOV 29	51.92	FEB 28	51.89	MAY 30	50.23	AUG 30	52.66
DEC 29	51.99	MAR 30	50.95	JUN 28	52.85	SEP 29	50.82
WATER YEAR 2000 HIGHEST 50.23		MAY 30, 2000		LOWEST 53.27		OCT 29, 1999	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

WASHINGTON COUNTY--Continued

WELL NUMBER.--WA Be 2. SITE ID.--393638078001301.

LOCATION.--Lat 39°36'38", long 78°00'13", Hydrologic Unit 02070004, about 1.2 mi southeast of Big Pool, at Fort Frederick State Park (inside Fort).

Owner: State of Maryland.

AQUIFER.--Romney Formation of Middle Devonian age. Aquifer code: 344RMNY.

WELL CHARACTERISTICS.--Dug, stone-lined, unused, water-table well, depth 41 ft; casing diameter 42 in.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 470 ft above sea level, from topographic map.

Measuring point: Top of wood sill, 0.80 ft above land surface.

REMARKS.--Maryland Water-Level Network and Collection of Basic Records national network observation well (see figure 3).

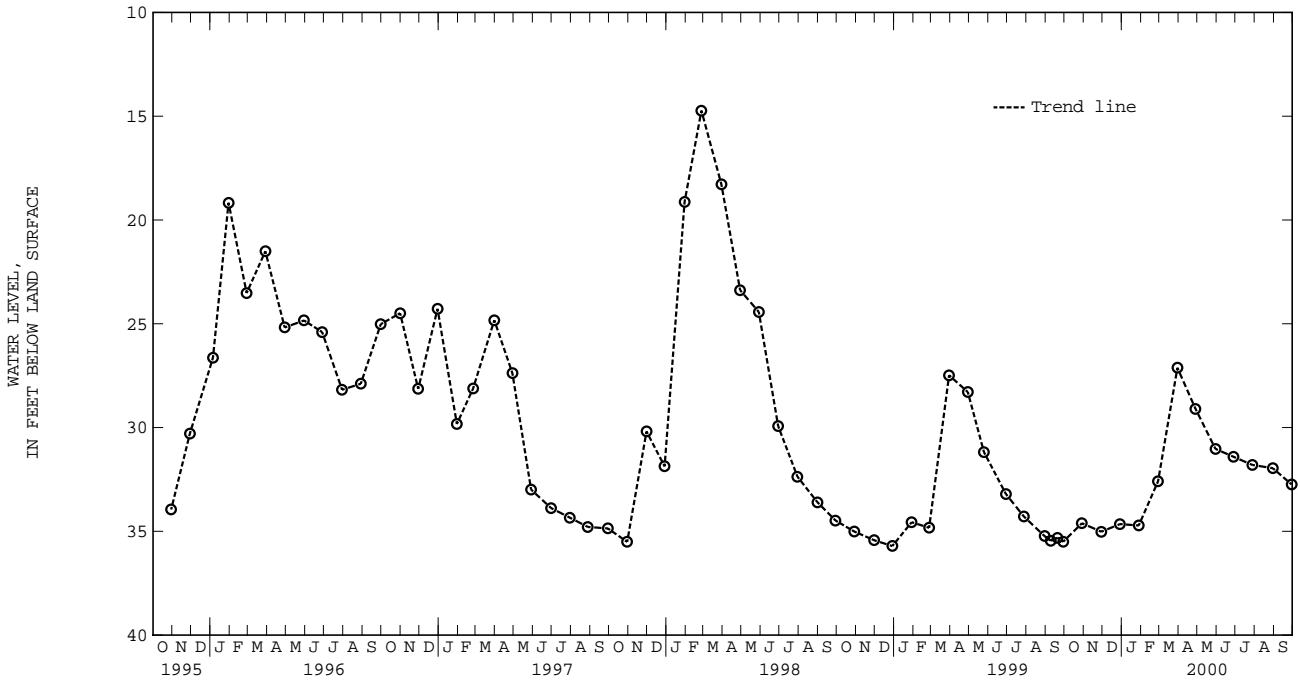
PERIOD OF RECORD.--December 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.72 ft below land surface, April 28, 1993;

lowest measured, 36.92 ft below land surface, Jan. 11, 1965.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29, 1999	34.61	JAN 28, 2000	34.72	APR 28, 2000	29.10	JUL 28, 2000	31.80
NOV 29	35.02	FEB 28	32.59	MAY 30	31.03	AUG 30	31.96
DEC 29	34.65	MAR 30	27.12	JUN 28	31.41	SEP 29	32.74
WATER YEAR 2000 HIGHEST		27.12 MAR 30, 2000	LOWEST		35.02 NOV 29, 1999		



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

WASHINGTON COUNTY--Continued

WELL NUMBER.--WA Bk 25. SITE ID.--393851077343001. PERMIT NUMBER.--WA-70-0235.

LOCATION.--Lat 39°38'51", long 77°34'30", Hydrologic Unit 02070004, 0.5 mi south of Smithsburg, at William M. Breichner Water Treatment Plant.

Owner: U.S. Geological Survey.

AQUIFER.--Tomstown Dolomite of Lower Cambrian age. Aquifer code: 377TMSN.

WELL CHARACTERISTICS.--Drilled, unused, water-table well, depth 200 ft; casing diameter 6 in., to 128 ft; open hole.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder from April 27, 1970 to current year.

DATUM.--Elevation of land surface is 790 ft above sea level, from topographic map.

Measuring point: Top of shelter shelf, 3.5 ft above land surface.

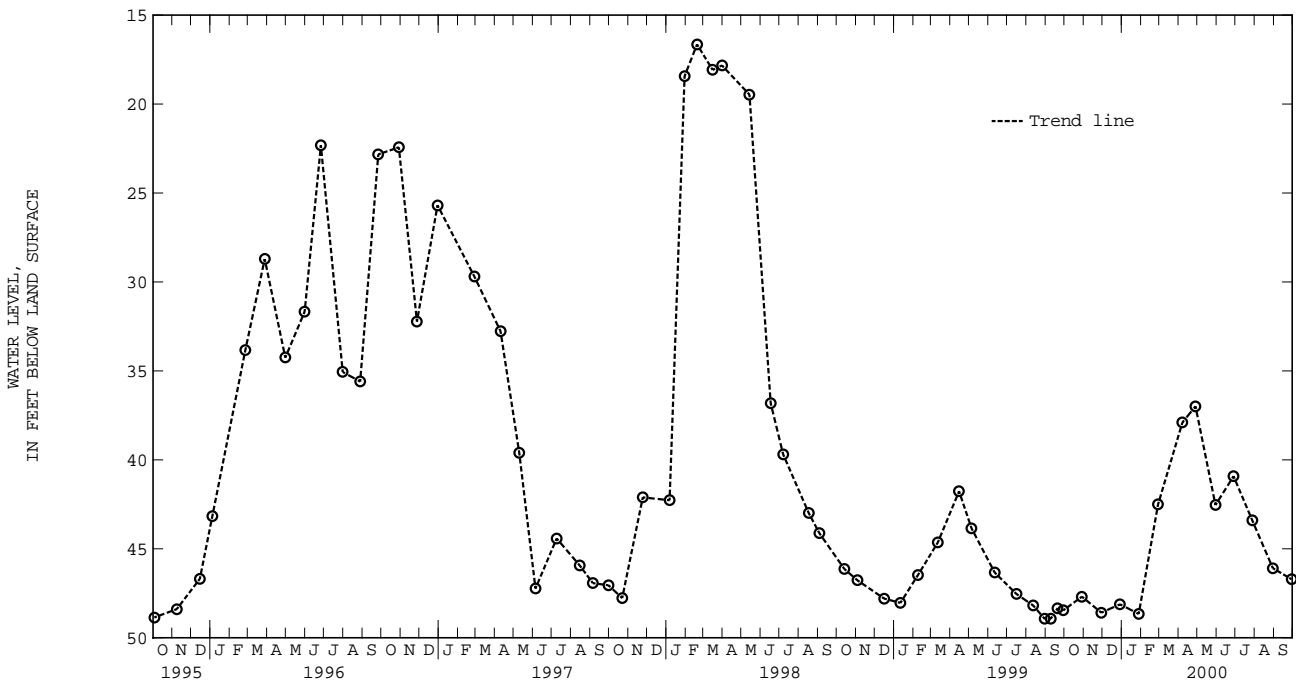
REMARKS.--Maryland Water-Level Network observation well.

PERIOD OF RECORD.--April 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.43 ft below land surface, April 23, 1993; lowest measured, 51.37 ft below land surface Jan. 31, 1981.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29, 1999	47.69	JAN 28, 2000	48.66	APR 28, 2000	36.99	JUL 28, 2000	43.40
NOV 29	48.59	FEB 28	42.50	MAY 30	42.54	AUG 30	46.09
DEC 29	48.12	APR 07	37.90	JUN 28	40.92	SEP 29	46.71
WATER YEAR 2000 HIGHEST		36.99 APR 28, 2000		LOWEST		48.66 JAN 28, 2000	

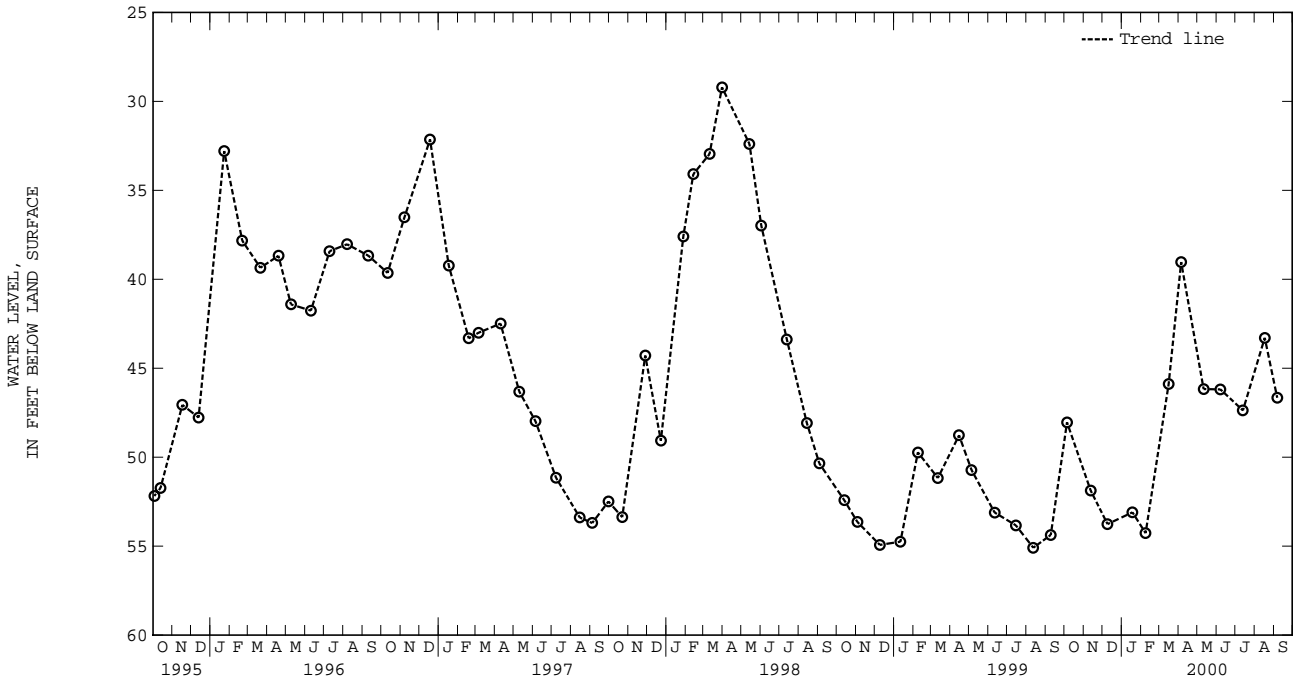


WASHINGTON COUNTY--Continued

WELL NUMBER.--WA Ci 82. SITE ID.--393402077434201. PERMIT NUMBER.--WA-73-2101.
 LOCATION.--Lat 39°34'02", long 77°43'42", Hydrologic Unit 02070004, at Maryland Correction Institution, nr Lappans.
 Owner: U.S. Geological Survey.
 AQUIFER.--Conococheague Limestone of Upper Cambrian age. Aquifer code: 371CCCG.
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 84 ft; casing diameter 6 in., to 32 ft; open hole.
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from April 25, 1978 to June 19, 1981.
 DATUM.--Elevation of land surface is 500 ft above sea level, from topographic map.
 Measuring point: Top of casing 2.30 ft above land surface.
 REMARKS.--Maryland Water-Level Network observation well.
 PERIOD OF RECORD.--February 1978 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.95 ft below land surface, April 6, 1993;
 lowest measured, 59.28 ft below land surface, Feb. 1, 1981.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	48.04	JAN 18, 2000	53.10	APR 05, 2000	39.03	JUL 13, 2000	47.37
NOV 12	51.88	FEB 08	54.27	MAY 11	46.17	AUG 17	43.29
DEC 09	53.76	MAR 16	45.88	JUN 07	46.19	SEP 06	46.66
WATER YEAR 2000 HIGHEST		39.03	APR 05, 2000	LOWEST		54.27	FEB 08, 2000



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

WASHINGTON COUNTY--Continued

WELL NUMBER.--WA Dj 2. SITE ID.--392904077371501.

LOCATION.--Lat 39°29'04", long 77°37'15", Hydrologic Unit 02070004, at Turner's Gap on Alt. U.S. 40.

Owner: Russell Schwartz.

AQUIFER.--Weverton Formation of Lower Cambrian age. Aquifer code: 377WVRN.

WELL CHARACTERISTICS.--Dug, stone-lined, observation, water-table well, depth 61.3 ft; casing diameter 48 in.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 1,070 ft above sea level, from topographic map.

Measuring point: Top of concrete cover, 0.25 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

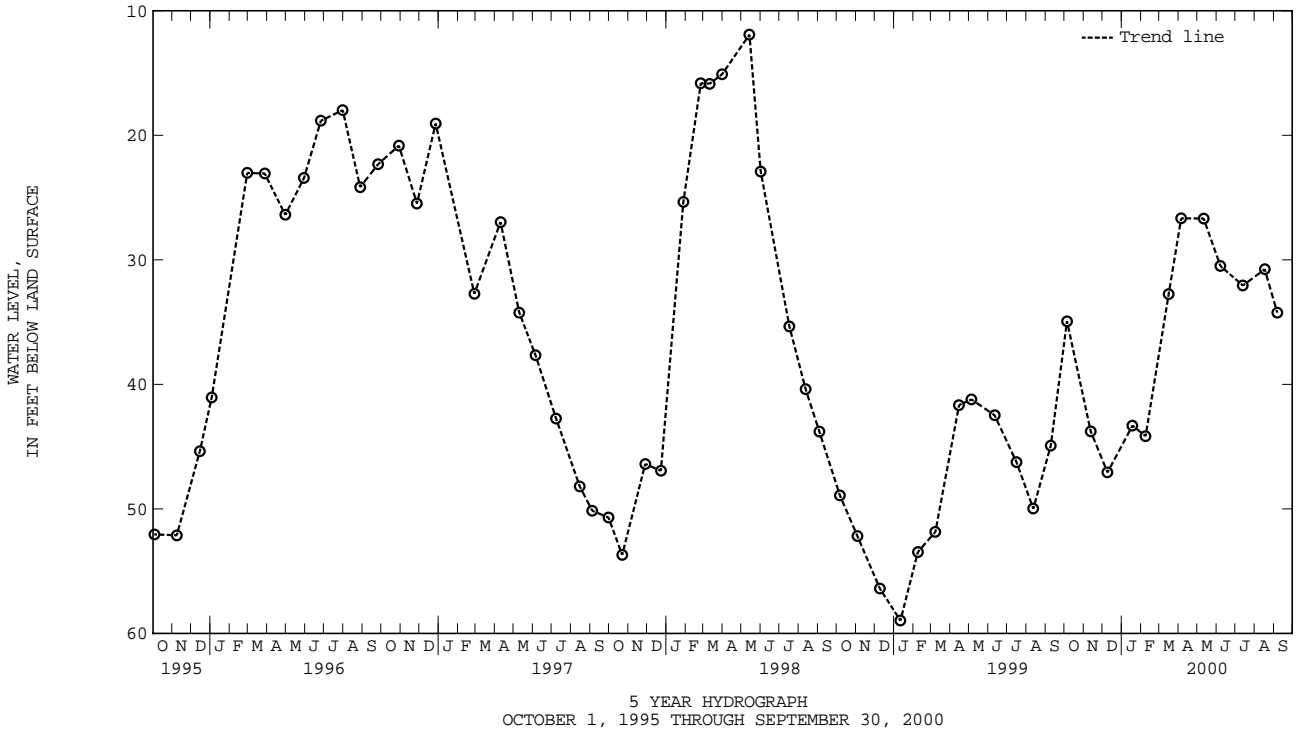
PERIOD OF RECORD.--December 1956 to current year.

EXTREMES FOR PERIOD FOR RECORD.--Highest water level measured, 11.92 ft below land surface, May 14, 1998;

lowest measured, 58.97 ft below land surface, Jan. 11, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1999	34.93	JAN 18, 2000	43.31	APR 05, 2000	26.67	JUL 13, 2000	32.06
NOV 12	43.77	FEB 08	44.16	MAY 11	26.68	AUG 17	30.76
DEC 09	47.07	MAR 16	32.76	JUN 07	30.50	SEP 06	34.24
WATER YEAR 2000 HIGHEST 26.67		APR 05, 2000		LOWEST 47.07		DEC 09, 1999	



WICOMICO COUNTY

WELL NUMBER.--WI Ce 13. SITE ID.--382150075352101.

LOCATION.--Lat 38°21'50", long 75°35'21", Hydrologic Unit 02060007, at Municipal Zoo Park, Salisbury.

Owner: City of Salisbury.

AQUIFER.--Pensauken Formation of the Salisbury aquifer of Upper Miocene age. Aquifer code: 112SLBR.

WELL CHARACTERISTICS.--Drilled, unused, water-table well, reported depth 65 ft, measured depth 51.7 ft; casing diameter 16 to 10 in., to unknown depth; screen diameter and interval unknown; screen length 20 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with water-level recorder from July 16, 1947 to Jan. 3, 1955; Aug. 23, 1962 to Aug. 20, 1968.

DATUM.--Elevation of land surface is 7 ft above sea level, from topographic map.

Measuring point: Top of casing, 0.22 ft above land surface.

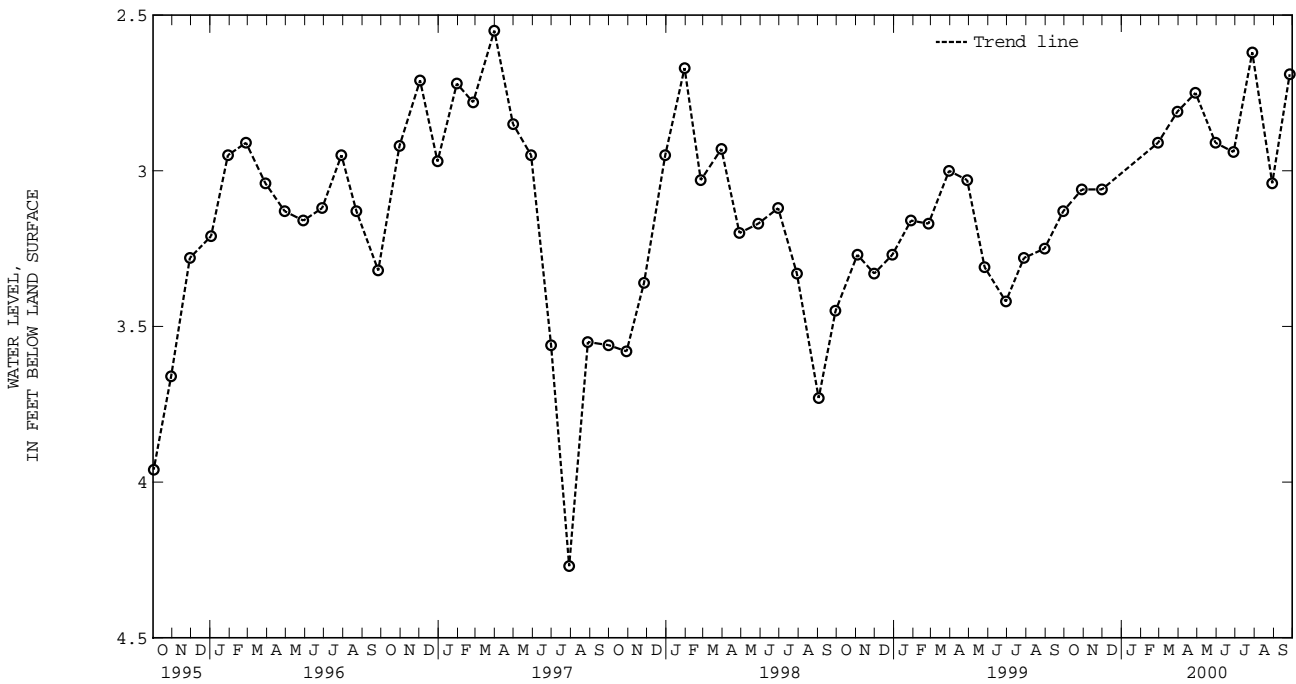
REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--July 1947 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.85 ft below land surface, Jan. 30, 1998; lowest measured, 10.72 ft below land surface, Aug. 30, 1947.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	
OCT 29, 1999	3.06	MAR 30, 2000	2.81	JUN 28, 2000	2.94	SEP 26, 2000	2.69	
NOV 30	3.06	APR 28	2.75	JUL 28	2.62			
FEB 28, 2000	2.91	MAY 30	2.91	AUG 29	3.04			
WATER YEAR 2000		HIGHEST	2.62	JUL 28, 2000	LOWEST	3.06	OCT 29, 1999	NOV 30, 1999



WICOMICO COUNTY--Continued

WELL NUMBER.--WI Cf 3. SITE ID.--382037075310801.

LOCATION.--Lat 38°20'37", long 75°31'08", Hydrologic Unit 02060007, on Airport Rd., at Salisbury-Wicomico Airport, Mt. Hermon.

Owner: Salisbury-Wicomico Airport.

AQUIFER.--Pensauken Formation of the Salisbury aquifer of Upper Miocene age. Aquifer code: 112SLBR.

WELL CHARACTERISTICS.--Drilled, unused, water-table well, depth 110 ft; casing diameter 16 in., to 90 ft; screened from 90 to 110 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel. Equipped with graphic water-level recorder from March 24, 1948 to July 9, 1948, Aug. 2, 1949 to April 11, 1960, and Aug. 29, 1963 to Aug. 20, 1968.

DATUM.--Elevation of land surface is 44.79 ft above sea level.

Measuring point: Top of casing, 2.00 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water level reported 7.2 ft below land surface, Oct. 26, 1942.

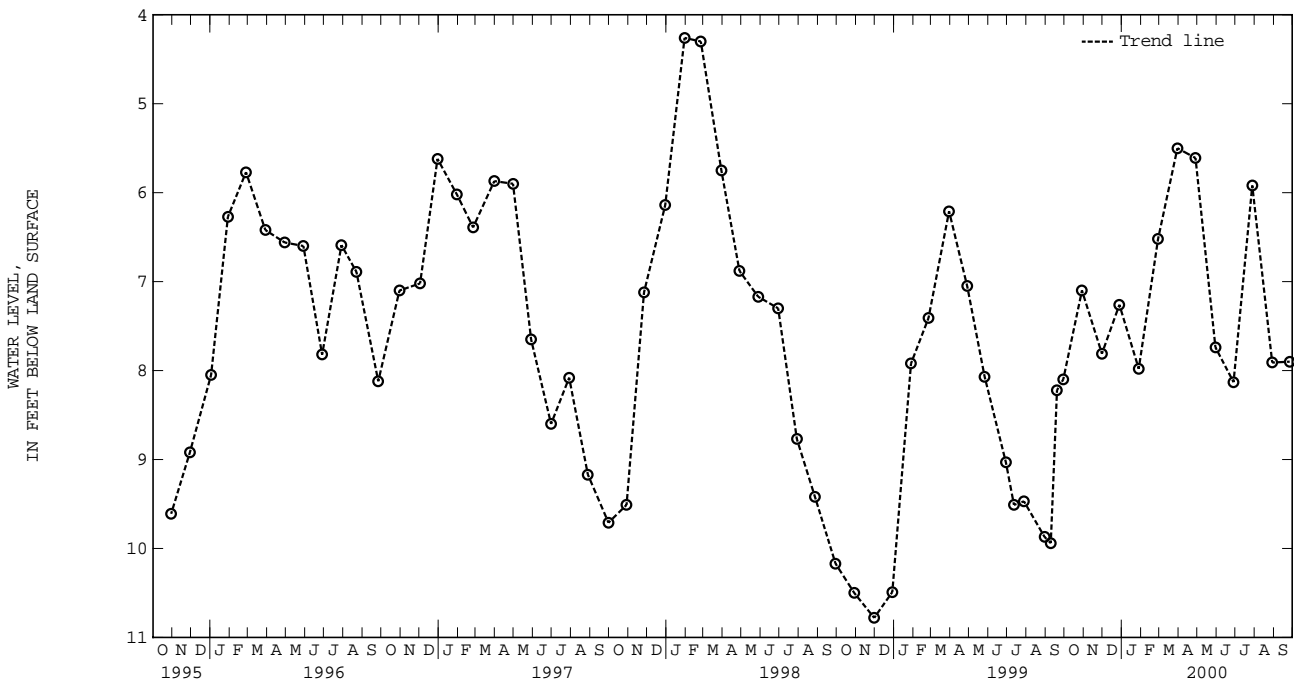
Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--September 1947 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.18 ft below land surface, May 8, 1958; lowest measured, 13.44 ft below land surface, Sept. 18, 1947.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29, 1999	7.10	JAN 28, 2000	7.98	APR 28, 2000	5.61	JUL 28, 2000	5.92
NOV 30	7.81	FEB 28	6.52	MAY 30	7.74	AUG 29	7.91
DEC 28	7.26	MAR 30	5.50	JUN 28	8.13	SEP 26	7.90
WATER YEAR 2000 HIGHEST		5.50 MAR 30, 2000	LOWEST		8.13 JUN 28, 2000		



WICOMICO COUNTY--Continued

WELL NUMBER.--WI Cf 147. SITE ID.--382429075344501.

LOCATION.--Lat 38°24'29", long 75°34'45", Hydrologic Unit 02060007, south side of Naylor Mill Rd., Salisbury.

Owner: A. S. Abell Co.

AQUIFER.--Pensauken Formation of the Salisbury aquifer of Upper Miocene age. Aquifer code: 112SLBR.

WELL CHARACTERISTICS.--Drilled, unused, water-table well, depth 80 ft; casing diameter 2 in., to 80 ft; perforated casing from 60 to 80 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 41.83 ft above sea level.

Measuring point: Top of casing at land surface.

REMARKS.--Maryland Water-Level Network observation well. Water levels are affected by local ground-water withdrawal.

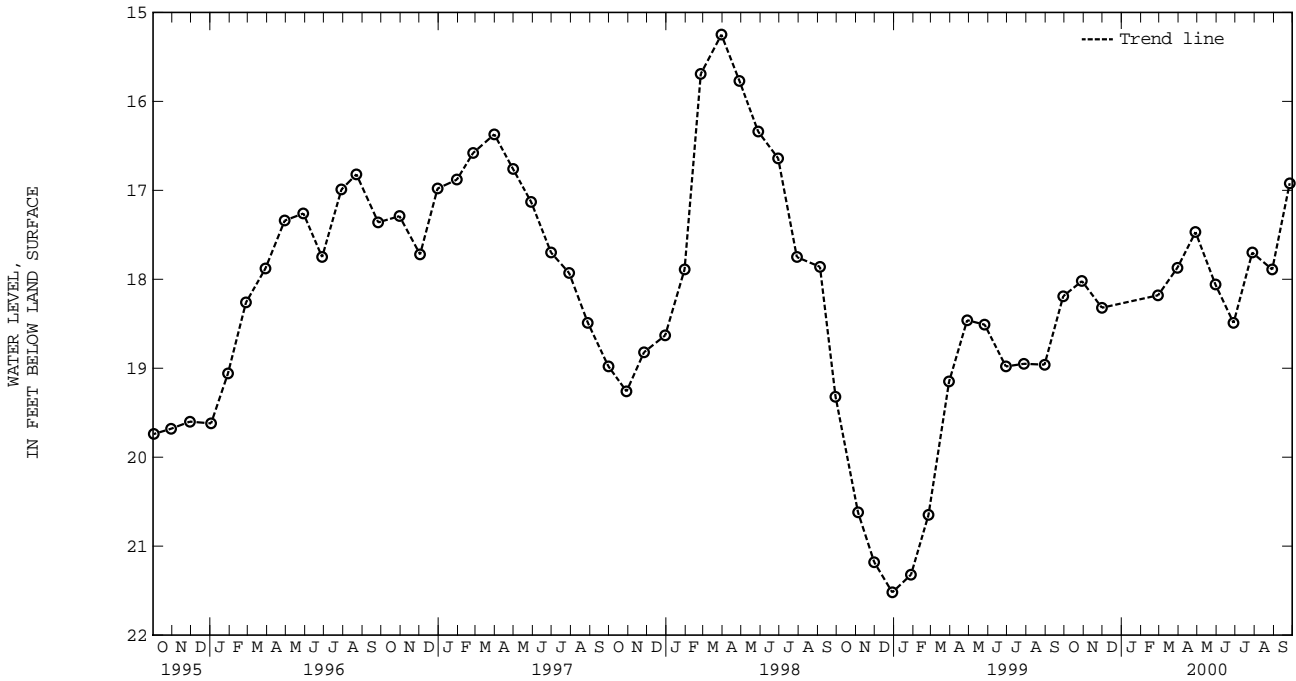
PERIOD OF RECORD.--November 1964; March 1966 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.78 ft below land surface, June 18, 1979;

lowest measured, 21.52 ft below land surface, Dec. 29, 1998.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29, 1999	18.02	MAR 30, 2000	17.87	JUN 28, 2000	18.49	SEP 26, 2000	16.92
NOV 30	18.32	APR 28	17.47	JUL 28	17.70		
FEB 28, 2000	18.18	MAY 30	18.06	AUG 29	17.89		
WATER YEAR 2000 HIGHEST 16.92		SEP 26, 2000		LOWEST 18.49		JUN 28, 2000	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

WICOMICO COUNTY--Continued

WELL NUMBER.--WI Cg 20. SITE ID.--382329075263701.

LOCATION.--Lat 38°23'29", long 75°26'37", Hydrologic Unit 02060009, 1.45 mi east of Parsonsburg, south of MD Route 346.

Owner: Maryland State Highway Administration.

AQUIFER.--Parsonsburg Sand of Pleistocene age. Aquifer code: 112PRBG.

WELL CHARACTERISTICS.--Driven, unused, water-table well, depth 25 ft, casing diameter 1.25 in., to unknown depth.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 68 ft above sea level, from topographic map.

Measuring point: Top of 2 in. sleeve, 0.17 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

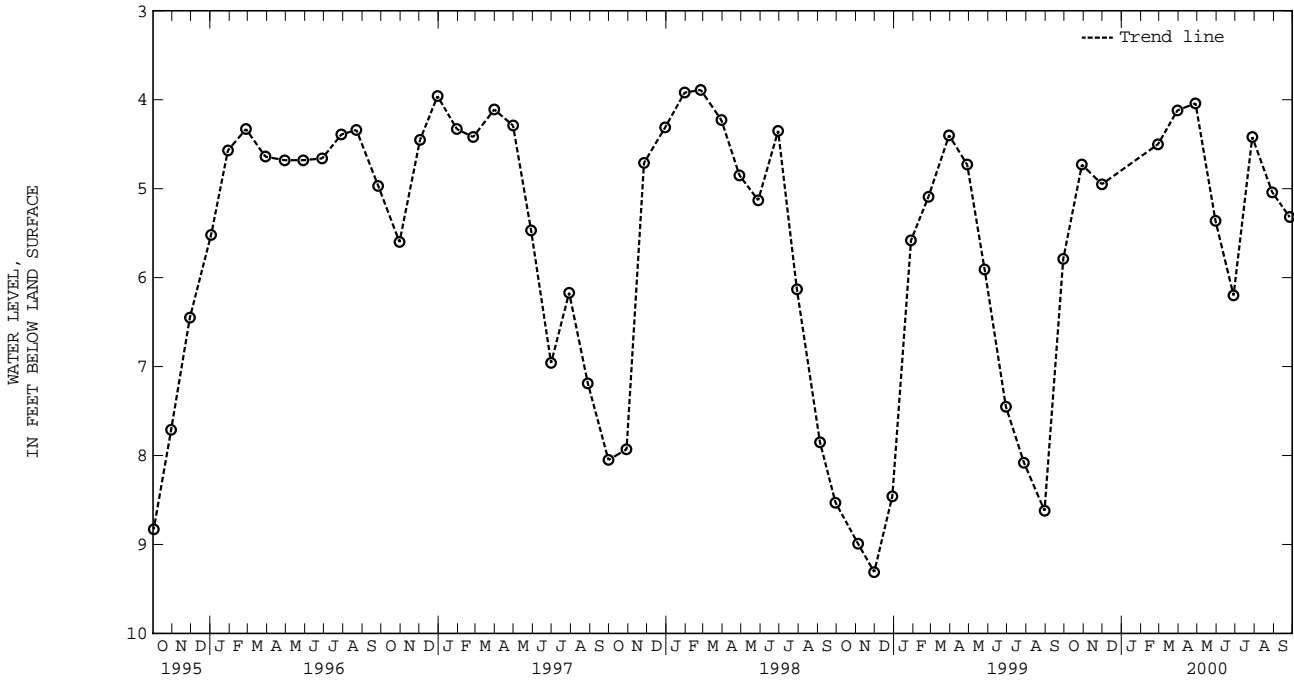
PERIOD OF RECORD.--August 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.84 ft below land surface, Jan. 31, 1950;

lowest measured, 9.31 ft below land surface, Nov. 30, 1998.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29, 1999	4.73	MAR 30, 2000	4.12	JUN 28, 2000	6.20	SEP 26, 2000	5.32
NOV 30	4.95	APR 28	4.04	JUL 28	4.42		
FEB 28, 2000	4.50	MAY 30	5.36	AUG 29	5.04		
WATER YEAR 2000 HIGHEST		4.04	APR 28, 2000	LOWEST		6.20	JUN 28, 2000

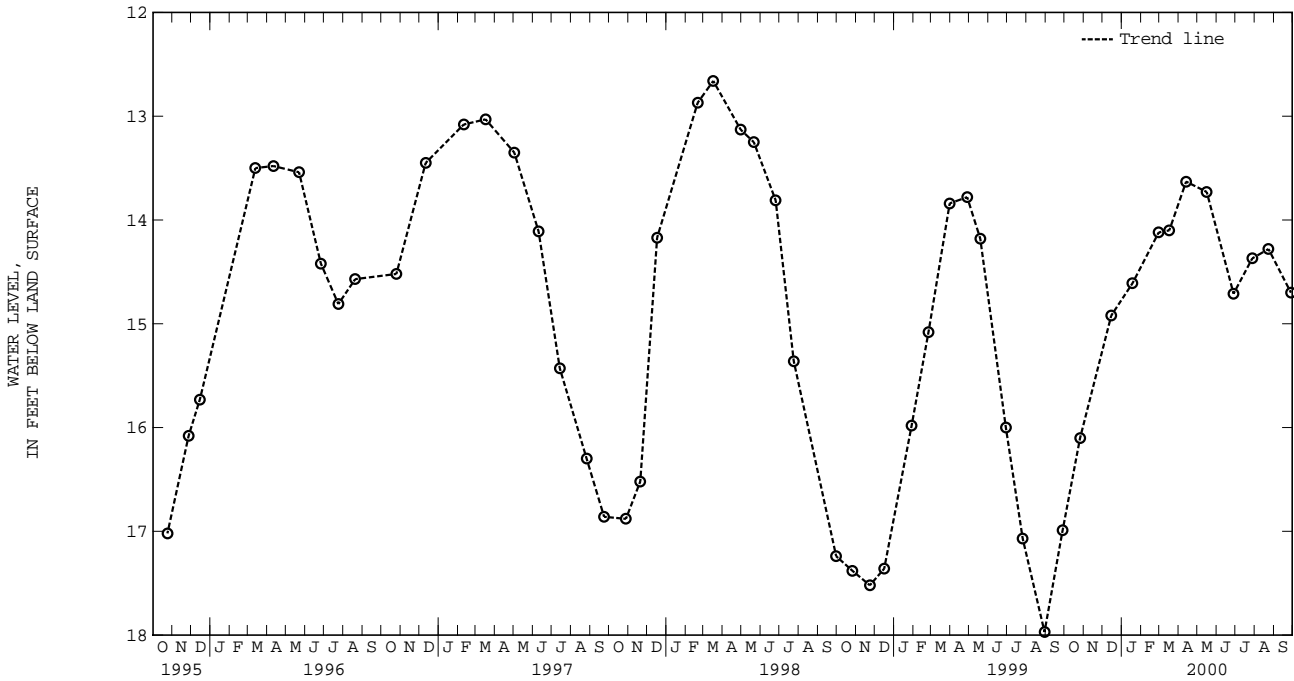


WORCESTER COUNTY

WELL NUMBER.--WO Ae 23. SITE ID.--382621075174201. PERMIT NUMBER.--WO-73-0513.
 LOCATION.--Lat 38°26'21", long 75°17'42", Hydrologic Unit 02060009, 2.75 mi north of Whaleyville.
 Owner: U.S. Geological Survey.
 AQUIFER.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 280 ft; casing diameter 4 in., to 270 ft; screen diameter 4 in. from 270 to 280 ft.
 INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 40 ft above sea level, from topographic map.
 Measuring point: Top of 4 in. casing, 3.52 ft above land surface.
 REMARKS.--Ocean City ground-water monitoring network well.
 PERIOD OF RECORD.--October 1975 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.85 ft below land surface, Dec. 16, 1975; lowest measured, 20.18 ft below land surface, Sept. 28, 1995.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 1999	16.10	FEB 29, 2000	14.12	MAY 16, 2000	13.73	AUG 23, 2000	14.28
DEC 15	14.92	MAR 17	14.10	JUN 28	14.71	SEP 28	14.70
JAN 18, 2000	14.61	APR 13	13.63	JUL 28	14.37		
WATER YEAR 2000 HIGHEST 13.63		APR 13, 2000		LOWEST 16.10		OCT 26, 1999	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

WORCESTER COUNTY--Continued

WELL NUMBER.--WO Ae 25. SITE ID.--382621075174203. PERMIT NUMBER.--WO-73-0514.
 LOCATION.--Lat 38°26'21", long 75°17'42", Hydrologic Unit 02060009, 2.75 mi north of Whaleyville.
 Owner: U.S. Geological Survey.

AQUIFER.--Beaverdam Sand of Pliocene age. Aquifer code: 121BVDM.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 118 ft; casing diameter 4 in., to 108 ft;
 screened diameter 2 in. from 108 to 118 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 40 ft above sea level, from topographic map.

Measuring point: Top of 4 in. coupling, 3.20 ft above land surface.

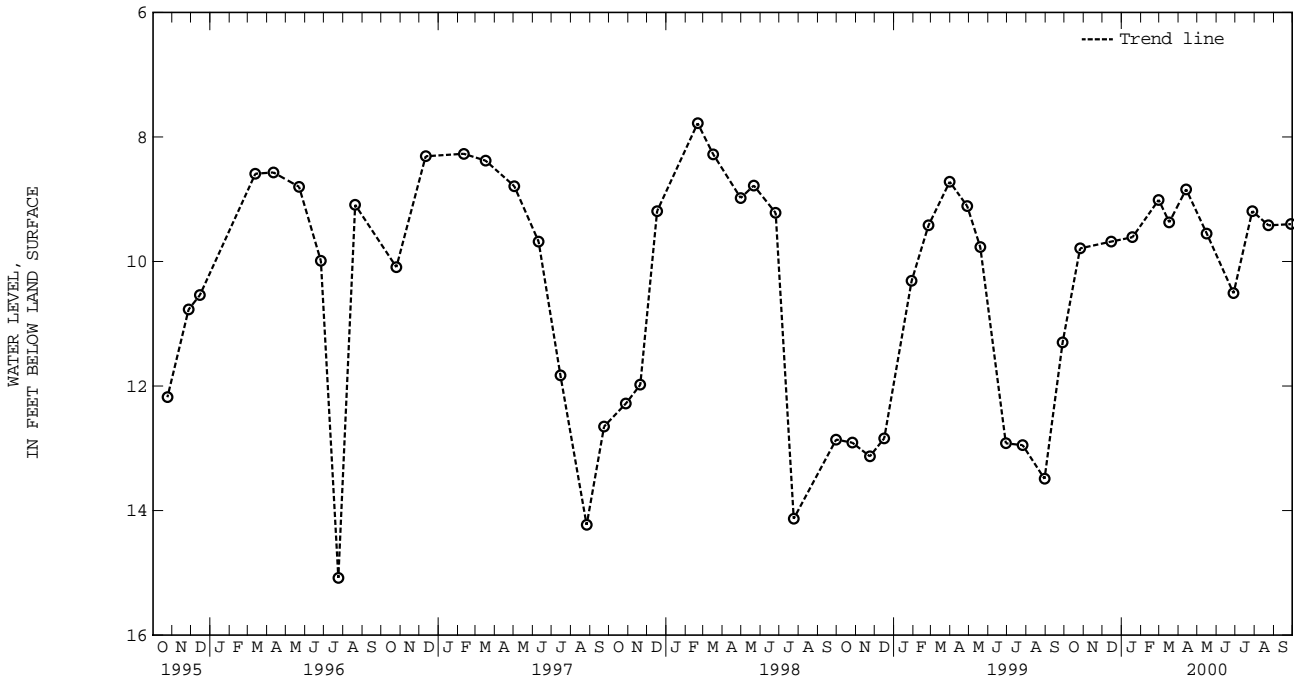
REMARKS.--Ocean City ground-water monitoring network well.

PERIOD OF RECORD.--October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.78 ft below land surface, Feb. 20, 1998;
 lowest measured, 15.08 ft below land surface, July 24, 1996.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	
OCT 26, 1999	9.79	FEB 29, 2000	9.01	MAY 16, 2000	9.55	AUG 23, 2000	9.42	
DEC 15	9.68	MAR 17	9.37	JUN 28	10.51	SEP 28	9.40	
JAN 18, 2000	9.61	APR 13	8.84	JUL 28	9.19			
WATER YEAR 2000 HIGHEST		8.84	APR 13, 2000		LOWEST		10.51	JUN 28, 2000



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

WORCESTER COUNTY--Continued

WELL NUMBER.--WO Ah 6. SITE ID.--382632075031801. PERMIT NUMBER.--WO-70-0009.

LOCATION.--Lat 38°26'32", long 75°03'18", Hydrologic Unit 02060010, at east end of 137th St., Ocean City.

Owner: U.S. Geological Survey.

AQUIFER.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 357 ft; casing diameter 4 in., to 347 ft; screen diameter 4 in. from 347 to 357 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--15-minute recording interval, March 1985 to February 1994.

DATUM.--Elevation of land surface is 6.35 ft above sea level.

Measuring point: Top of shelter floor, 3.27 ft above land surface, when shelter removed, measuring point top of metal sleeve, 3.27 ft above land surface.

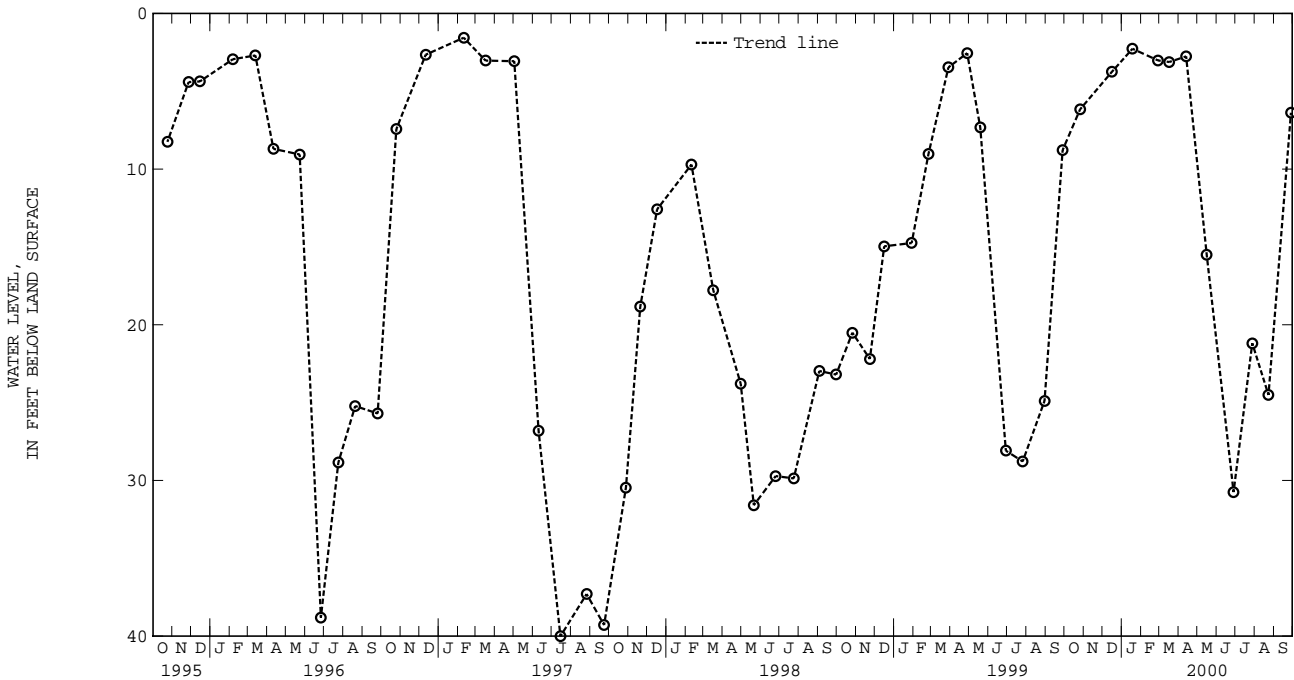
REMARKS.--Ocean City ground-water monitoring network well. Water levels are affected by local ground-water withdrawal, especially during summer peak demands.

PERIOD OF RECORD.--September 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.56 ft above land surface, Feb. 10, 1997; lowest measured, 52.46 ft below land surface, July 24, 1989.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 1999	6.16	FEB 28, 2000	3.02	MAY 16, 2000	15.51	AUG 23, 2000	24.51
DEC 16	3.75	MAR 17	3.12	JUN 28	30.75	SEP 28	6.38
JAN 18, 2000	2.27	APR 13	2.76	JUL 28	21.19		
WATER YEAR 2000 HIGHEST		2.27	JAN 18, 2000	LOWEST		30.75	JUN 28, 2000



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

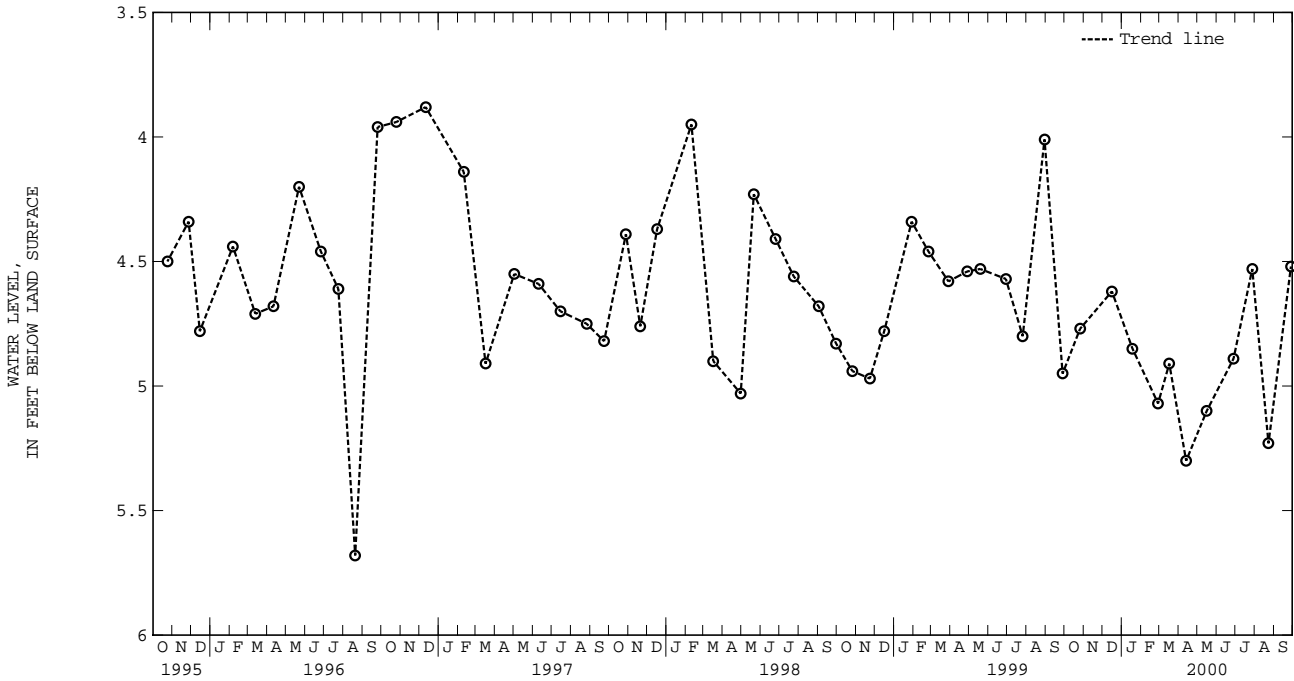
GROUND-WATER LEVELS IN MARYLAND--Continued

WORCESTER COUNTY--Continued

WELL NUMBER.--WO Ah 35. SITE ID.--382635075030601. PERMIT NUMBER.--WO-73-0516.
 LOCATION.--Lat 38°26'35", long 75°03'06", Hydrologic Unit 02060010, at east end of 137th St., Ocean City.
 Owner: U.S. Geological Survey.
 AQUIFER.--St. Marys Formation of Middle-Upper Miocene age. Aquifer code: 122SMRS.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 726 ft; casing diameter 4 in., to 716 ft; screen diameter 2 in. from 716 to 726 ft.
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 13.99 ft above sea level.
 Measuring point: Top of 4 in. casing, 3.30 ft above land surface.
 REMARKS.--Ocean City ground-water monitoring network well. Water levels may be affected by nearby pumping.
 PERIOD OF RECORD.--October 1975 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.90 ft below land surface, March 10, 1976;
 lowest measured, 10.26 ft below land surface, Oct. 28, 1975.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 1999	4.77	FEB 28, 2000	5.07	MAY 16, 2000	5.10	AUG 23, 2000	5.23
DEC 16	4.62	MAR 17	4.91	JUN 28	4.89	SEP 28	4.52
JAN 18, 2000	4.85	APR 13	5.30	JUL 28	4.53		
WATER YEAR 2000 HIGHEST		4.52	SEP 28, 2000	LOWEST		5.30	APR 13, 2000



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

WORCESTER COUNTY--Continued

WELL NUMBER.--WO Ah 36. SITE ID.--382635075030602. PERMIT NUMBER.--WO-73-0518.

LOCATION.--Lat 38°26'35", long 75°03'06", Hydrologic Unit 02060010, at east end of 137th St., Ocean City.

Owner: U.S. Geological Survey.

AQUIFER.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 430 ft; casing diameter 4 in., to 420 ft; screen diameter 2 in. from 420 to 430 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recording interval from May 1994 to May 1997.

DATUM.--Elevation of land surface is 14.32 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of 4 in. casing, 4.29 ft above land surface.

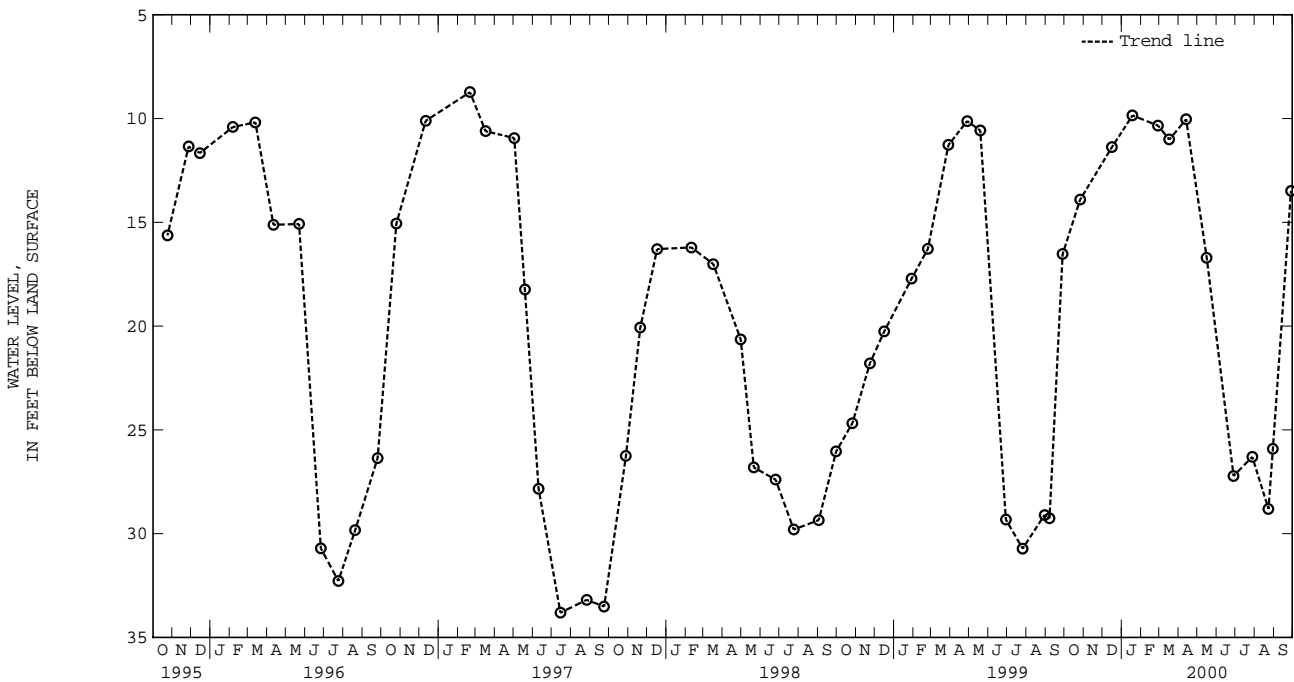
REMARKS.--Ocean City ground-water monitoring network well. Water levels are affected by local ground-water withdrawal, especially during summer peak demands.

PERIOD OF RECORD.--October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.23 ft below land surface, Feb. 9, 1997; lowest measured, 38.75 ft below land surface, Aug. 30, 1989.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 1999	13.91	FEB 28, 2000	10.34	MAY 16, 2000	16.71	AUG 23, 2000	28.81
DEC 16	11.38	MAR 17	11.01	JUN 28	27.22	30	25.92
JAN 18, 2000	9.85	APR 13	10.04	JUL 28	26.30	SEP 28	13.49
WATER YEAR 2000 HIGHEST 9.85 JAN 18, 2000		LOWEST 28.81		AUG 23, 2000			



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

WORCESTER COUNTY--Continued

WELL NUMBER.--WO Ah 37. SITE ID.--382635075030603. PERMIT NUMBER.--WO-73-0517.

LOCATION.--Lat 38°26'35", long 75°03'06", Hydrologic Unit 02060010, at east end of 137th St., Ocean City.

Owner: U.S. Geological Survey.

AQUIFER.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 478 ft; casing diameter 4 in., to 468 ft; screen diameter 2 in. from 468 to 478 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with water-level recorder--60-minute recording interval from May 1997 to current year.

DATUM.--Elevation of land surface is 13.89 ft above sea level.

Measuring point: Top of 4 in. casing, 3.10 ft above land surface.

REMARKS.--Ocean City ground-water monitoring network well. Water levels are affected by local ground-water withdrawal, especially during summer peak demands. Missing data due to recorder malfunction.

PERIOD OF RECORD.--December 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.58 ft below land surface, Feb. 10, 1977; lowest measured, 41.42 ft below land surface, Aug. 30, 1989.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.88	14.39	13.65	12.33	11.90	10.79	11.90	10.77	12.19	10.84	10.90	9.85
2	15.86	14.45	13.15	11.68	11.93	10.61	11.96	10.79	12.33	11.18	11.03	9.47
3	15.86	14.47	13.75	11.97	12.36	10.91	12.04	10.83	12.33	10.76	11.08	9.77
4	15.69	14.34	14.24	12.75	12.47	11.04	12.03	10.67	11.62	9.94	11.11	9.63
5	15.33	13.68	14.24	12.79	12.47	11.05	13.33	10.63	11.42	9.89	11.07	9.51
6	15.37	13.85	14.09	12.59	12.39	10.98	12.47	10.89	12.13	10.74	11.06	9.56
7	15.37	14.00	13.73	12.17	12.27	10.92	12.79	10.50	12.24	10.75	11.21	9.64
8	15.45	14.00	13.29	11.67	12.56	11.13	12.27	10.78	12.09	10.55	11.18	9.46
9	15.50	14.06	13.15	11.60	12.61	11.17	12.19	10.64	11.75	10.36	10.82	9.34
10	15.44	13.91	13.30	11.93	12.36	10.86	11.82	10.14	11.78	10.23	11.09	9.51
11	15.26	13.79	13.18	11.53	12.71	11.34	12.12	10.37	11.28	9.98	10.74	9.13
12	14.94	13.61	12.50	11.27	13.00	11.45	12.35	11.19	11.35	10.03	10.88	9.13
13	14.90	13.64	12.66	11.53	11.97	10.65	12.01	10.62	11.26	10.05	11.27	9.69
14	14.93	13.85	12.45	11.31	11.48	9.89	12.08	10.61	11.28	9.76	11.17	9.99
15	14.98	13.84	12.43	11.28	11.36	10.27	11.98	10.91	11.65	9.99	11.29	9.78
16	14.81	13.71	12.62	11.44	11.97	10.48	12.19	10.57	11.80	9.98	11.19	9.74
17	14.46	13.27	12.70	11.59	12.56	11.14	12.04	10.51	11.92	10.02	11.10	9.55
18	13.96	12.85	12.90	11.60	12.49	11.23	11.73	9.94	11.92	9.92	11.00	9.36
19	13.92	12.79	12.93	11.66	12.01	10.62	11.39	9.39	11.59	9.43	11.02	9.23
20	14.00	12.80	12.97	11.45	11.99	10.21	11.39	9.24	11.48	9.45	10.77	8.94
21	14.02	12.70	13.02	11.34	12.44	10.15	11.50	9.39	11.63	9.91	10.37	8.52
22	13.96	12.21	13.02	11.11	12.51	10.35	12.23	10.05	11.69	10.07	10.20	8.70
23	14.03	12.02	13.01	10.93	12.51	10.36	12.46	10.25	11.56	10.15	13.00	9.20
24	14.14	12.45	13.04	10.86	12.62	10.28	11.58	9.67	11.49	10.24	12.35	10.32
25	14.23	12.42	12.96	10.83	12.36	10.57	10.44	8.49	11.39	9.94	14.10	10.31
26	14.44	12.60	12.60	10.68	12.41	10.79	11.47	9.37	10.87	9.89	14.21	10.63
27	14.47	12.41	12.53	10.71	13.90	11.22	11.80	10.42	11.02	10.03	11.71	9.83
28	13.96	12.11	12.66	11.07	12.31	10.76	12.27	10.83	11.12	10.07	12.70	9.57
29	13.98	12.38	12.75	11.36	11.92	10.66	11.85	11.09	11.15	10.21	11.31	10.47
30	14.05	12.45	12.50	11.24	12.35	11.07	11.54	10.67	---	---	10.97	10.07
31	13.75	12.34	---	---	12.29	11.03	11.97	10.29	---	---	11.03	9.80
MONTH	15.88	12.02	14.24	10.68	13.90	9.89	13.33	8.49	12.33	9.43	14.21	8.52

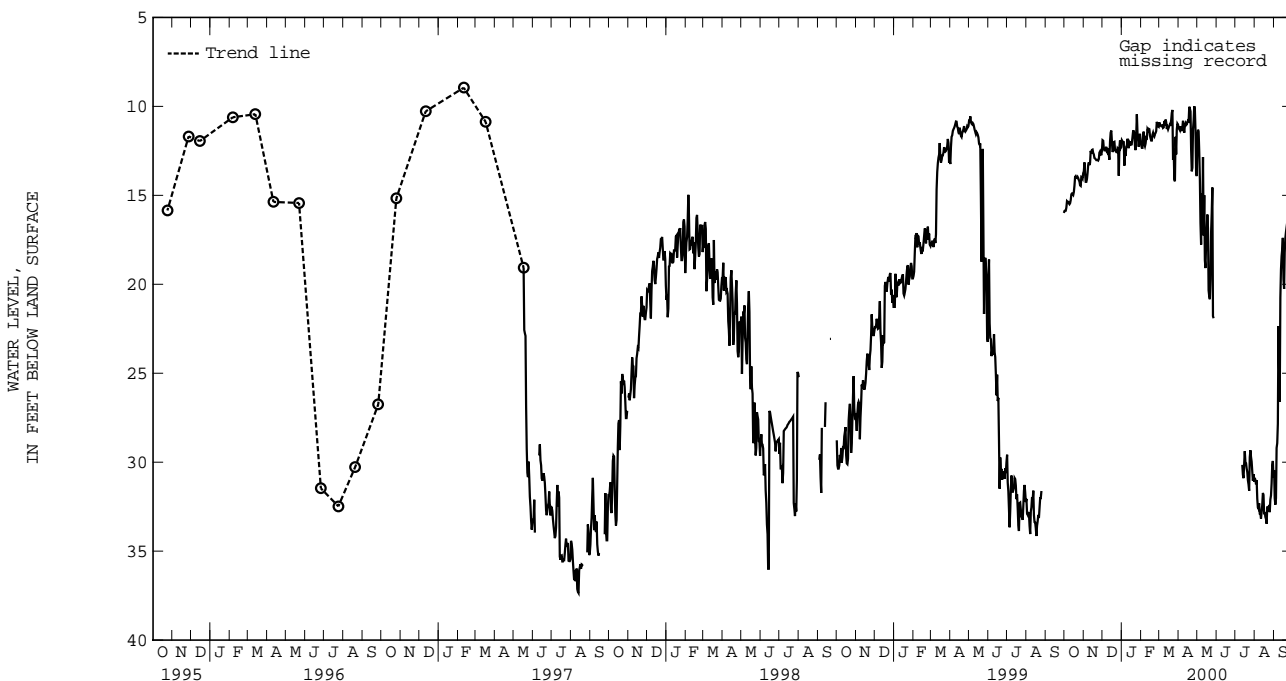
WORCESTER COUNTY--Continued

WO Ah 37--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.21	9.87	11.75	9.88	---	---	---	---	30.88	27.39	30.47	27.56
2	11.27	9.93	11.31	9.70	---	---	---	---	31.00	26.77	32.03	28.42
3	11.34	9.65	11.41	9.59	---	---	---	---	31.24	27.21	32.39	29.96
4	11.12	9.46	12.55	9.74	---	---	---	---	31.01	27.83	32.03	28.85
5	11.34	9.63	14.11	10.02	---	---	---	---	32.05	28.87	29.20	27.17
6	11.34	9.54	16.57	13.21	---	---	---	---	32.55	28.71	28.93	24.23
7	11.15	9.23	17.77	14.89	---	---	---	---	32.62	29.41	27.84	22.35
8	10.81	9.17	14.89	11.09	---	---	---	---	32.31	29.46	22.35	20.31
9	11.25	9.17	16.39	11.09	---	---	---	---	32.88	28.73	24.77	20.05
10	11.48	9.90	12.85	10.95	---	---	---	---	32.88	29.47	26.61	19.60
11	11.02	9.71	17.25	10.49	---	---	---	---	33.17	29.62	20.75	18.12
12	10.94	9.31	14.99	11.35	---	---	30.15	27.71	32.77	30.00	19.17	17.38
13	11.05	9.53	18.65	11.14	---	---	30.71	27.52	32.40	29.86	18.42	16.78
14	11.01	9.63	19.09	14.56	---	---	30.90	27.73	31.73	28.79	18.03	16.16
15	10.89	9.47	17.70	13.55	---	---	30.09	25.30	31.84	28.79	17.39	15.81
16	10.80	9.35	16.91	12.99	---	---	29.38	24.26	32.93	29.76	19.70	15.68
17	10.83	8.68	16.08	12.74	---	---	30.00	26.55	32.80	29.98	20.26	16.95
18	10.02	8.17	16.86	13.10	---	---	30.05	27.03	33.08	30.80	18.21	16.36
19	10.13	8.46	20.34	14.14	---	---	30.35	27.57	33.19	30.75	17.42	16.11
20	10.28	8.74	20.68	18.17	---	---	30.56	27.26	33.46	30.57	17.07	15.56
21	12.43	9.17	20.84	18.22	---	---	31.02	27.65	32.54	29.09	16.80	15.28
22	13.65	9.46	19.72	16.32	---	---	31.25	28.49	32.54	29.12	16.52	15.09
23	13.45	10.35	17.07	15.23	---	---	31.61	28.17	32.75	28.96	16.30	14.69
24	11.29	10.03	16.01	13.65	---	---	29.72	27.05	32.40	28.65	16.11	14.35
25	10.79	9.18	14.56	13.65	---	---	29.33	25.90	32.81	28.81	15.94	13.77
26	9.99	9.07	21.79	13.50	---	---	29.71	26.45	32.10	28.49	15.22	13.25
27	10.17	9.10	21.91	18.69	---	---	29.97	26.31	31.87	27.69	15.38	13.64
28	11.40	9.32	---	---	---	---	30.53	26.52	31.19	27.36	15.52	13.84
29	13.72	9.57	---	---	---	---	31.04	26.85	30.16	26.30	15.36	13.69
30	13.92	10.45	---	---	---	---	30.67	26.67	29.93	26.31	15.38	13.78
31	---	---	---	---	---	---	31.09	28.76	30.85	26.27	---	---
MONTH	13.92	8.17	21.91	9.59	---	---	31.61	24.26	33.46	26.27	32.39	13.25
YEAR	33.46	8.17										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

WORCESTER COUNTY--Continued

WELL NUMBER.--WO Bg 1. SITE ID.--382022075072401.

LOCATION.--Lat 38°20'22", long 75°07'24", Hydrologic Unit 02060010, 0.4 mi east of Herring Creek on U.S. Rt. 50.

Owner: MD State Highway Administration.

AQUIFER.--Sinepuxent Formation of Pleistocene age. Aquifer code: 112SNPX.

WELL CHARACTERISTICS.--Driven, water-table well, depth 14 ft; casing diameter 1.25 in., to 14 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 10 ft above sea level, from topographic map.

Measuring point: Top of casing, 0.25 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

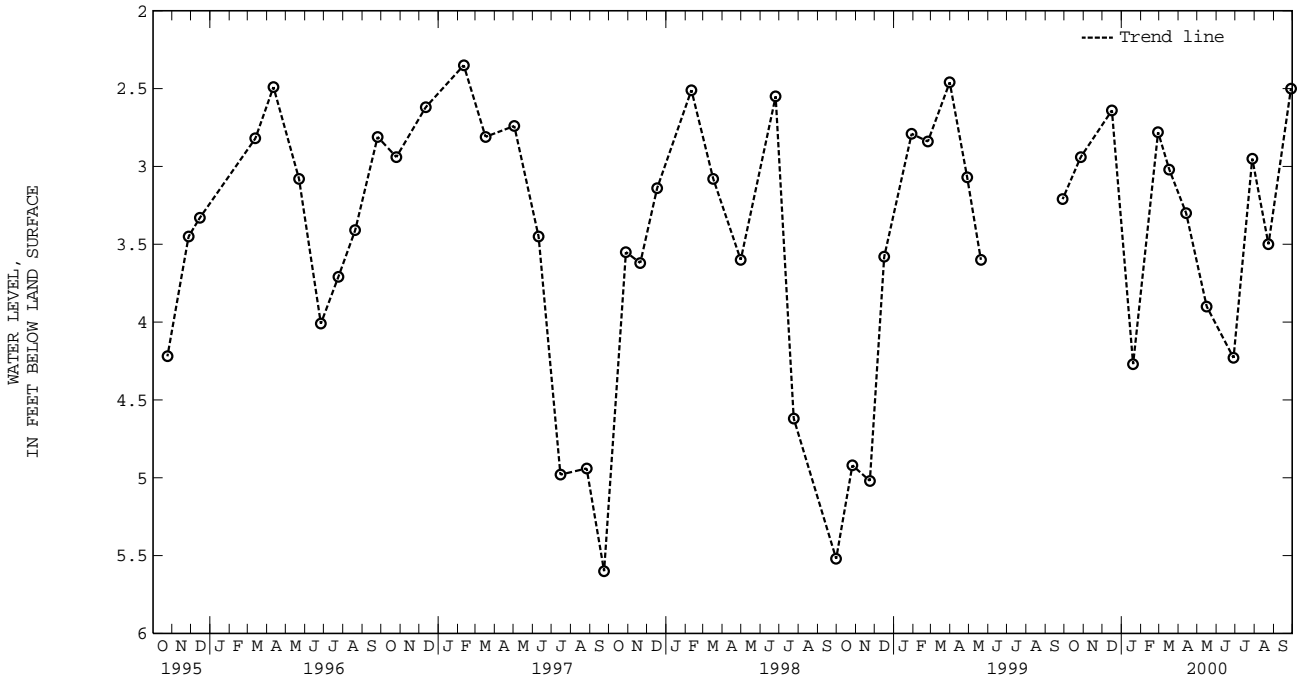
PERIOD OF RECORD.--August 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.41 ft below land surface, March 8, 1962;

lowest measured, 8.61 ft below land surface, May 14, 1986.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 1999	2.94	FEB 28, 2000	2.78	MAY 16, 2000	3.90	AUG 23, 2000	3.50
DEC 16	2.64	MAR 17	3.02	JUN 28	4.23	SEP 28	2.50
JAN 19, 2000	4.27	APR 13	3.30	JUL 28	2.95		
WATER YEAR 2000 HIGHEST		2.50	SEP 28, 2000	LOWEST		4.27	JAN 19, 2000



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

WORCESTER COUNTY--Continued

WELL NUMBER.--WO Bg 45. SITE ID.--382358075094501. PERMIT NUMBER.--WO-68-0066.

LOCATION.--Lat 38°23'58", long 75°09'45", Hydrologic Unit 02060010, south side of Beauchamp Rd. at Ocean Pines.

Owner: Ocean Pines.

AQUIFER.--Beaverdam Sand of Pliocene age. Aquifer code: 121BVDM.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 77 ft; casing diameter 2 in., to 56 ft; screen diameter 3 in. from 56 to 77 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 10 ft above sea level, from topographic map.

Measuring point: Top of 2 in. casing, 1.60 ft above land surface.

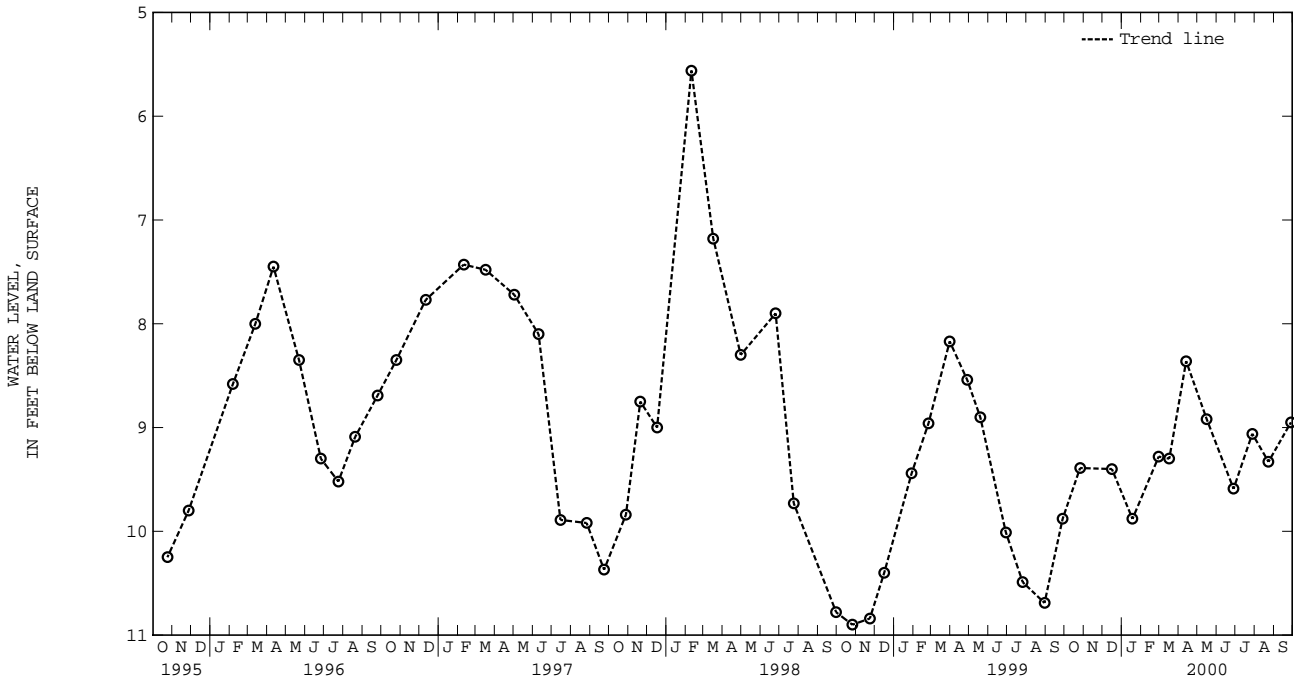
REMARKS.--Ocean City ground-water monitoring network well.

PERIOD OF RECORD.--October 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.22 ft below land surface, Jan. 8, 1971; lowest measured, 10.90 ft below land surface, Oct. 26, 1998.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 1999	9.39	FEB 29, 2000	9.28	MAY 16, 2000	8.92	AUG 23, 2000	9.33
DEC 16	9.40	MAR 17	9.30	JUN 28	9.59	SEP 28	8.95
JAN 18, 2000	9.88	APR 13	8.36	JUL 28	9.06		
WATER YEAR 2000 HIGHEST		8.36 APR 13, 2000	LOWEST		9.88 JAN 18, 2000		



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

WORCESTER COUNTY--Continued

WELL NUMBER.--WO Bg 46. SITE ID.--382358075094502 PERMIT NUMBER.--WO-68-0066

LOCATION.--Lat 38°23'58", long 75°09'45", Hydrologic Unit 02060010, south side of Beauchamp Rd. at Ocean Pines.

Owner: Ocean Pines

AQUIFER.--Pocomoke aquifer of Upper Miocene-Pliocene age. Aquifer code: 122PCMK.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 199.5 ft; casing diameter 6 in., to 53.6 ft; casing diameter 4 in. from 53.6 to 164.2 ft, and 194.5 to 199.5 ft; screen diameter 6 in. from 164.2 to 194.55 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 10 ft above sea level, from topographic map.

Measuring point: Top of 2 in. coupling, 2.5 ft above land surface.

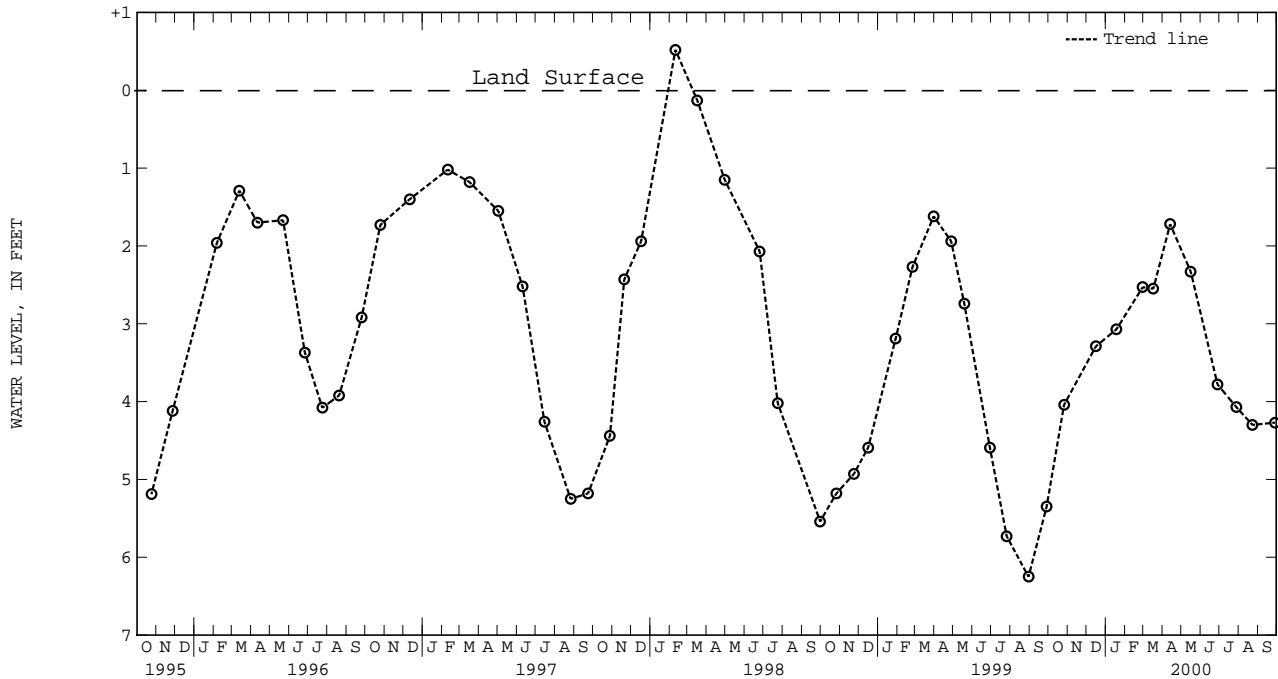
REMARKS.--Ocean City ground-water monitoring network well. Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--October 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.52 ft above land surface, Feb. 10, 1998;
lowest measured, 6.25 ft below land surface, Aug. 30, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 1999	4.04	FEB 29, 2000	2.53	MAY 16, 2000	2.33	AUG 23, 2000	4.30
DEC 16	3.29	MAR 17	2.55	JUN 28	3.78	SEP 28	4.27
JAN 18, 2000	3.07	APR 13	1.72	JUL 28	4.07		
WATER YEAR 2000 HIGHEST		1.72 APR 13, 2000	LOWEST		4.30	AUG 23, 2000	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

WORCESTER COUNTY--Continued

WELL NUMBER.--WO Bg 47. SITE ID.--382325075063301. PERMIT NUMBER.--WO-73-0521.

LOCATION.--Lat 38°23'25", long 75°06'33", Hydrologic Unit 02060010, at intersection of MD Rt. 90 and Isle of Wight Rd., Isle of Wight.

Owner: U.S. Geological Survey.

AQUIFER.--Ocean City aquifer of Upper Miocene age. Aquifer code: 122OCNC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 268 ft; casing diameter 4 in., to 258 ft; screen diameter 4 in. from 258 to 268 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recording interval from July 1985 to current year.

DATUM.--Altitude of land surface is 5 ft above sea level, from topographic map.

Measuring Point: Top of recorder shelf, 4.07 ft above land surface.

REMARKS.--Ocean City ground-water monitoring network well. Water levels are affected by nearby ground-water withdrawal, especially during summer peak demands.

PERIOD OF RECORD.--September 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.71 ft below land surface, February 5, 1998; lowest measured, 13.09 ft below land surface, Aug. 8, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.84	10.08	8.26	7.56	7.08	6.19	6.20	5.54	6.40	5.88	5.75	4.80
2	10.78	10.06	8.04	6.84	6.67	6.00	6.14	5.64	6.60	6.19	5.42	4.61
3	10.84	10.16	7.81	7.03	6.98	6.24	6.29	5.75	6.62	5.68	5.59	5.05
4	10.76	10.10	8.43	7.81	7.09	6.47	6.32	5.63	5.97	5.11	5.61	4.93
5	10.60	9.65	8.52	7.96	7.17	6.48	6.26	5.65	5.67	5.07	5.46	4.80
6	10.24	9.67	8.38	7.76	6.96	6.29	6.51	5.80	6.33	5.53	5.43	4.86
7	10.34	9.77	8.14	7.35	6.96	6.33	6.21	5.51	6.36	5.87	5.56	4.92
8	10.28	9.68	7.74	6.94	7.13	6.53	6.34	5.71	6.29	5.65	5.49	4.81
9	10.22	9.67	7.61	6.88	7.20	6.55	6.33	5.65	6.02	5.41	5.29	4.68
10	10.26	9.65	7.76	7.18	7.00	6.20	6.05	5.10	6.02	5.51	5.54	4.66
11	10.20	9.60	7.73	6.74	7.23	6.52	6.09	5.27	5.66	5.06	5.34	4.70
12	10.02	9.42	7.12	6.46	7.55	6.73	6.58	6.09	5.73	5.08	5.45	4.34
13	9.97	9.36	7.34	6.73	6.73	5.94	6.31	5.52	5.67	5.16	5.82	4.98
14	10.13	9.37	7.17	6.46	6.22	5.29	6.27	5.60	5.69	4.86	5.78	5.25
15	10.17	9.54	7.16	6.52	6.03	5.48	6.23	5.74	5.88	5.18	5.79	5.09
16	9.92	9.30	7.34	6.70	6.50	5.63	6.13	5.48	5.92	5.17	5.82	5.13
17	9.57	8.78	7.44	6.83	7.06	6.30	6.32	5.57	5.92	5.26	5.70	4.93
18	9.13	8.57	7.35	6.82	7.07	6.46	6.35	5.01	5.99	5.09	5.57	4.84
19	9.09	8.45	7.47	6.94	6.81	5.85	5.48	4.63	5.58	4.70	5.43	4.63
20	9.05	8.46	7.38	6.78	6.39	5.56	5.54	4.55	5.54	4.79	5.19	4.39
21	9.08	8.45	7.33	6.72	6.35	5.58	5.58	4.74	5.74	4.95	4.94	3.92
22	8.94	8.01	7.35	6.60	6.69	5.90	6.11	5.30	5.84	5.28	4.82	3.92
23	8.47	7.80	7.32	6.49	6.68	5.82	6.43	5.56	5.82	5.29	5.29	4.33
24	8.83	8.20	7.31	6.47	6.67	5.82	5.91	5.02	5.85	5.27	5.56	4.79
25	8.89	8.20	7.27	6.44	6.57	5.68	5.04	4.04	5.81	5.38	5.45	4.99
26	8.97	8.32	7.08	6.30	6.36	5.69	5.84	4.48	5.44	4.96	5.37	4.88
27	8.94	8.13	7.00	6.31	6.51	5.85	6.31	5.60	5.63	5.01	5.18	4.68
28	8.55	7.70	7.17	6.50	6.28	5.55	6.62	5.97	5.81	5.09	4.95	4.19
29	8.44	7.80	7.32	6.72	6.13	5.45	6.62	6.02	5.81	5.28	5.32	4.57
30	8.59	7.83	7.29	6.69	6.56	5.80	6.30	5.52	---	---	5.32	4.78
31	8.32	7.60	---	---	6.56	5.87	6.28	5.30	---	---	5.31	4.73
MONTH	10.84	7.60	8.52	6.30	7.55	5.29	6.62	4.04	6.62	4.70	5.82	3.92

GROUND-WATER LEVELS IN MARYLAND--Continued

WORCESTER COUNTY--Continued

WELL NUMBER.--WO Bg 48. SITE ID.--382325075063302. PERMIT NUMBER.--WO-73-0522.

LOCATION.--Lat 38°23'25", long 75°06'33", Hydrologic Unit 02060010, at intersection of MD Rt. 90 and Isle of Wight Rd., Isle of Wight.

Owner: U.S. Geological Survey.

AQUIFER.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 420 ft; casing diameter 4 in., to 410 ft; screen diameter 4 in. from 410 to 420 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recording interval from July 1985 to current year.

DATUM.--Altitude of land surface is 5 ft above sea level, from topographic map.

Measuring Point: Top of recorder shelf, 3.87 ft above land surface.

REMARKS.--Ocean City ground-water monitoring network well. Water levels are affected by nearby ground-water withdrawal, especially during summer peak demands

PERIOD OF RECORD.--September 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.54 ft below land surface, February 24, 1998; lowest measured, 14.53 ft below land surface, Aug. 8, and 9, 1999.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.92	11.27	8.80	8.16	7.28	6.49	6.29	5.72	6.39	5.92	5.67	4.82
2	11.83	11.22	8.55	7.43	6.91	6.28	6.17	5.77	6.58	6.21	5.36	4.63
3	11.81	11.25	8.32	7.60	7.23	6.54	6.30	5.85	6.60	5.73	5.50	5.04
4	11.66	11.11	8.91	8.32	7.31	6.80	6.34	5.74	5.96	5.22	5.52	4.94
5	11.49	10.66	9.01	8.49	7.40	6.82	6.28	5.76	5.67	5.16	5.36	4.81
6	11.15	10.69	8.82	8.26	7.20	6.62	6.53	5.92	6.28	5.58	5.34	4.88
7	11.24	10.80	8.56	7.86	7.18	6.67	6.25	5.65	6.32	5.91	5.46	4.91
8	11.18	10.68	8.16	7.47	7.35	6.86	6.36	5.84	6.27	5.70	5.37	4.81
9	11.09	10.65	8.01	7.38	7.43	6.87	6.34	5.77	5.99	5.47	5.19	4.68
10	11.07	10.55	8.11	7.63	7.22	6.52	6.07	5.22	5.97	5.54	5.42	4.66
11	10.97	10.50	8.09	7.22	7.42	6.79	6.09	5.37	5.63	5.12	5.25	4.66
12	10.84	10.34	7.52	6.95	7.72	6.99	6.57	6.09	5.70	5.15	5.33	4.35
13	10.76	10.25	7.70	7.18	6.99	6.14	6.34	5.63	5.63	5.21	5.70	4.98
14	10.87	10.24	7.53	6.90	6.45	5.61	6.28	5.72	5.63	4.92	5.67	5.23
15	10.91	10.37	7.50	6.94	6.27	5.80	6.24	5.83	5.85	5.22	5.67	5.08
16	10.64	10.13	7.64	7.10	6.72	5.93	6.14	5.57	5.87	5.23	5.68	5.11
17	10.32	9.60	7.76	7.24	7.26	6.56	6.30	5.65	5.86	5.33	5.56	4.90
18	9.84	9.35	7.67	7.22	7.26	6.76	6.31	5.10	5.94	5.12	5.51	4.89
19	9.83	9.26	7.78	7.32	7.04	6.17	5.48	4.72	5.53	4.78	5.37	4.67
20	9.77	9.26	7.69	7.15	6.61	5.89	5.50	4.61	5.49	4.88	5.12	4.43
21	9.79	9.26	7.62	7.11	6.58	5.89	5.56	4.83	5.68	5.01	4.90	3.97
22	9.66	8.80	7.63	6.99	6.86	6.19	6.06	5.36	5.78	5.31	4.79	3.97
23	9.22	8.59	7.59	6.88	6.86	6.14	6.36	5.61	5.76	5.33	5.25	4.38
24	9.50	8.96	7.56	6.85	6.85	6.12	5.90	5.06	5.77	5.31	5.52	4.84
25	9.56	8.97	7.52	6.81	6.75	5.98	5.06	4.12	5.74	5.39	5.43	5.05
26	9.61	9.05	7.34	6.59	6.49	5.91	5.80	4.55	5.42	5.01	5.31	4.92
27	9.61	8.89	7.24	6.61	6.63	6.07	6.31	5.62	5.55	5.04	5.13	4.65
28	9.24	8.45	7.41	6.85	6.41	5.77	6.61	6.02	5.71	5.09	4.87	4.22
29	9.08	8.50	7.56	7.06	6.22	5.65	6.61	6.08	5.71	5.29	5.24	4.55
30	9.19	8.52	7.52	6.96	6.62	5.94	6.31	5.57	---	---	5.24	4.78
31	8.88	8.23	---	---	6.62	6.02	6.25	5.35	---	---	5.23	4.75
MONTH	11.92	8.23	9.01	6.59	7.72	5.61	6.61	4.12	6.60	4.78	5.70	3.97

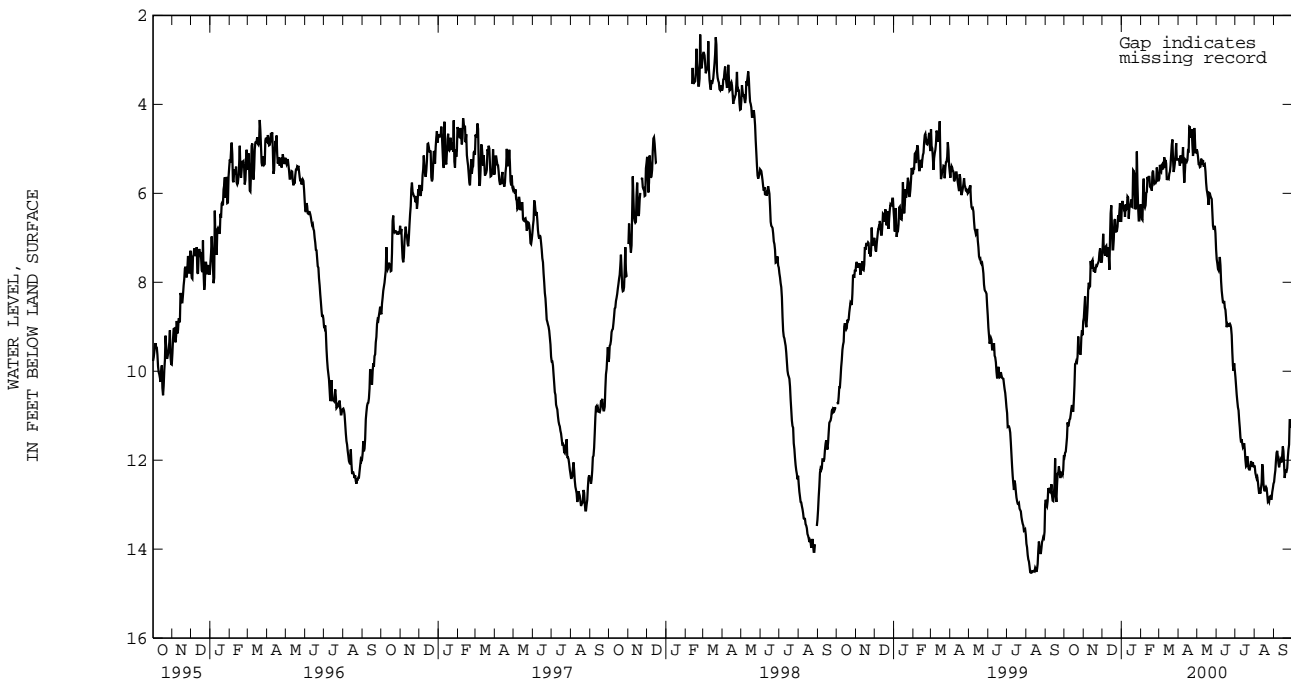
WORCESTER COUNTY--Continued

WO Bg 48--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	5.23	4.81	5.06	4.52	7.48	6.90	10.13	9.48	12.14	11.42	12.49	12.00
2	5.29	4.88	5.18	4.68	7.58	6.87	10.33	9.53	12.29	11.54	12.34	11.85
3	5.38	4.77	5.34	4.76	7.70	6.94	10.52	9.67	12.35	11.73	12.23	11.68
4	5.15	4.63	5.34	4.72	7.73	7.02	10.67	9.91	12.41	11.92	12.00	11.53
5	5.32	4.71	5.41	4.73	7.61	6.98	10.81	10.09	12.38	11.94	11.83	11.22
6	5.29	4.77	5.40	4.77	7.43	6.84	10.88	10.26	12.48	12.03	11.79	11.32
7	5.22	4.54	5.22	4.70	7.62	6.83	11.10	10.38	12.63	12.20	11.92	11.48
8	4.96	4.38	5.27	4.60	7.97	7.20	11.27	10.72	12.75	12.28	12.07	11.63
9	5.45	4.25	5.35	4.69	8.19	7.57	11.48	11.03	12.70	12.19	12.16	11.66
10	5.76	5.05	5.25	4.79	8.33	7.88	11.60	11.11	12.75	12.19	12.08	11.51
11	5.52	4.90	5.38	4.60	8.45	8.01	11.53	11.00	12.63	12.06	11.98	11.47
12	5.25	4.48	5.38	4.91	8.45	7.87	11.63	11.09	12.50	11.82	12.01	11.53
13	5.27	4.72	5.36	4.87	8.42	7.88	11.71	11.19	12.09	11.38	12.05	11.55
14	5.29	4.79	5.51	4.99	8.57	8.00	11.68	11.05	12.20	11.48	11.89	11.28
15	5.25	4.66	5.76	5.30	8.62	8.06	11.62	11.08	12.54	11.77	11.69	11.20
16	5.04	4.60	5.92	5.39	8.79	8.18	11.76	11.12	12.65	11.98	11.80	11.29
17	5.05	4.13	6.00	5.44	9.01	8.30	11.99	11.26	12.70	12.19	12.10	11.51
18	4.50	3.71	6.10	5.52	8.93	8.37	12.14	11.47	12.63	12.21	12.40	11.92
19	4.51	3.74	6.26	5.50	8.95	8.37	12.12	11.53	12.60	12.17	12.26	11.63
20	4.75	3.97	5.99	5.42	9.00	8.40	11.91	11.43	12.63	12.18	12.24	11.70
21	4.63	3.93	6.00	5.41	8.94	8.47	12.05	11.45	12.77	12.32	12.25	11.68
22	4.56	3.92	6.06	5.50	8.93	8.42	12.18	11.65	12.93	12.47	12.18	11.55
23	4.91	4.06	6.10	5.53	8.96	8.47	12.21	11.81	12.91	12.36	11.94	11.26
24	5.16	4.45	6.13	5.54	9.02	8.51	12.21	11.75	12.94	12.33	11.76	11.18
25	4.99	4.49	6.43	5.63	9.19	8.62	12.13	11.54	12.82	12.20	11.65	10.75
26	4.53	4.11	6.73	6.06	9.57	8.91	12.02	11.46	12.81	12.19	11.10	10.35
27	4.75	4.07	6.80	6.33	9.88	9.39	12.08	11.48	12.87	12.21	11.10	10.50
28	5.08	4.40	6.80	6.38	9.99	9.37	12.14	11.42	12.87	12.20	11.26	10.72
29	5.08	4.58	6.73	6.16	9.82	9.14	12.05	11.35	12.72	12.04	11.19	10.58
30	5.01	4.59	6.90	6.34	9.98	9.31	12.14	11.44	12.63	12.04	11.11	10.57
31	---	---	7.26	6.71	---	---	12.14	11.42	12.53	12.05	---	---
MONTH	5.76	3.71	7.26	4.52	9.99	6.83	12.21	9.48	12.94	11.38	12.49	10.35
YEAR	12.94	3.71										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

WORCESTER COUNTY--Continued

WELL NUMBER.--WO Bg 49. SITE ID.--382038075065901. PERMIT NUMBER.--WO-73-0520.

LOCATION.--Lat 38°20'38", long 75°06'59", Hydrologic Unit 020060010, near Keyser Point Rd., West Ocean City.

Owner: U.S. Geological Survey.

AQUIFER.--Ocean City aquifer of Upper Miocene age. Aquifer code: 122OCNC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 243 ft; casing diameter 4 in., to 233 ft; screen diameter 4 in. from 233 to 243 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recording interval, May 1985 to current year. Periodic measurements with chalked steel tape October 1975 to May 1985.

DATUM.--Altitude of land surface is 10 ft above sea level, from topographic map.

Measuring Point: Top of recorder shelf, 2.13 ft above land surface.

REMARKS.--Ocean City ground-water monitoring network. Water levels are affected by nearby ground-water withdrawal, especially during summer peak demands. Missing data due to recorder malfunction.

PERIOD OF RECORD.--October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.42 ft below land surface, March 12, 1993; lowest measured, 24.84 ft below land surface, Aug. 16, 1988.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.49	20.38	18.45	18.25	15.48	14.97	16.06	15.41	16.60	16.55	15.68	15.25
2	20.49	20.43	18.25	17.62	14.97	14.48	16.48	16.06	16.59	16.51	15.25	15.04
3	20.71	20.49	17.63	17.47	14.58	14.45	16.64	16.48	16.55	16.10	15.11	15.00
4	20.78	20.69	17.79	17.57	14.58	14.44	16.64	16.19	16.13	15.57	15.11	14.94
5	20.70	20.37	17.79	17.67	14.47	14.33	16.19	15.89	15.80	15.52	15.32	15.11
6	20.42	20.27	17.70	17.60	14.37	14.10	15.92	15.59	16.14	15.80	15.45	15.31
7	20.27	20.04	17.71	17.56	14.13	14.03	15.59	15.33	16.22	16.11	---	---
8	20.05	19.96	17.68	17.49	14.13	14.04	15.35	15.24	16.11	15.84	---	---
9	20.29	20.01	17.49	17.15	14.10	13.91	15.35	15.29	15.84	15.62	15.30	15.05
10	20.35	20.29	17.18	17.06	13.91	13.63	15.32	14.88	15.62	15.53	15.33	15.05
11	20.44	20.34	17.06	16.68	13.76	13.68	14.88	14.72	15.53	15.27	15.32	15.22
12	20.44	20.37	16.68	16.45	13.87	13.76	15.14	14.84	15.27	15.14	15.60	15.13
13	20.43	19.88	16.56	16.44	13.77	13.16	15.11	14.75	15.43	15.17	15.98	15.58
14	19.88	19.60	16.63	16.56	13.16	12.61	14.89	14.71	15.44	15.32	16.04	15.95
15	19.66	19.51	16.77	16.60	12.61	12.45	14.96	14.80	15.39	15.31	15.96	15.75
16	19.51	19.40	16.63	16.37	12.48	12.36	15.15	14.88	15.39	15.20	15.87	15.67
17	19.46	19.17	16.37	16.13	12.70	12.48	15.33	15.07	15.31	15.11	15.71	15.43
18	19.23	19.07	16.13	15.90	12.73	12.63	15.33	14.99	15.17	14.83	15.70	15.55
19	19.17	18.98	15.95	15.80	12.70	12.37	14.99	14.74	14.88	14.70	16.01	15.70
20	19.01	18.81	15.84	15.58	12.53	12.22	15.16	14.86	15.31	14.88	16.03	15.86
21	18.83	18.66	15.95	15.61	12.22	12.04	15.99	15.16	15.78	15.31	15.86	15.30
22	18.66	18.40	15.98	15.73	12.44	12.15	16.49	15.99	15.91	15.78	15.38	15.22
23	18.40	18.22	15.73	15.36	12.99	12.44	16.65	16.49	15.85	15.68	15.48	15.36
24	18.53	18.38	15.39	15.09	13.39	12.99	16.62	16.38	15.68	15.56	15.52	15.39
25	18.54	18.43	15.09	14.80	13.52	13.39	16.38	15.79	15.60	15.49	15.67	15.40
26	18.49	18.39	14.92	14.70	13.64	13.48	16.25	15.80	15.49	15.32	16.14	15.67
27	18.44	18.29	15.59	14.92	14.10	13.64	16.43	16.22	15.80	15.44	16.55	16.14
28	18.29	18.13	16.17	15.59	14.21	14.08	16.57	16.37	15.92	15.73	16.78	16.52
29	18.18	18.07	16.39	16.17	14.48	14.13	16.71	16.57	15.91	15.68	16.99	16.78
30	18.25	18.16	16.20	15.48	15.00	14.48	16.71	16.36	---	---	16.99	16.71
31	18.38	18.23	---	---	15.41	14.98	16.55	16.27	---	---	16.76	16.45
MONTH	20.78	18.07	18.45	14.70	15.48	12.04	16.71	14.71	16.60	14.70	16.99	14.94

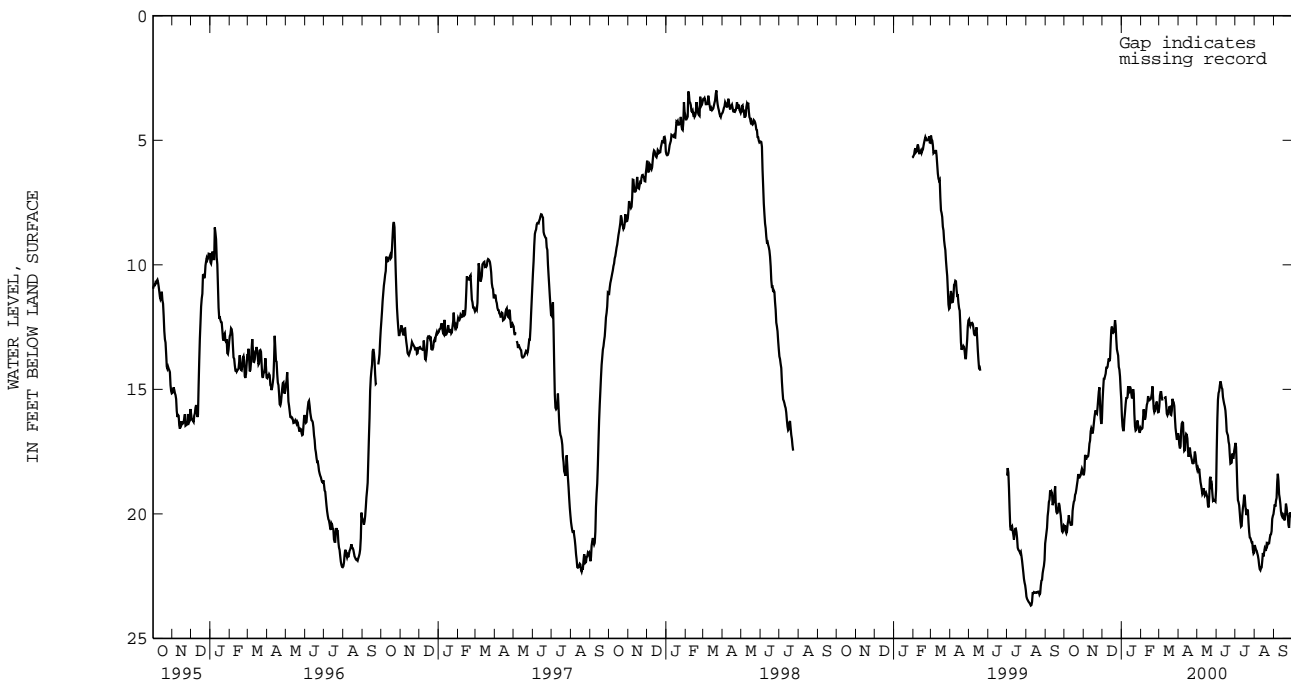
WORCESTER COUNTY--Continued

WO Bg 49--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.87	16.52	18.24	18.12	17.47	16.19	17.15	16.98	21.25	21.01	19.82	19.56
2	17.22	16.87	18.16	18.04	16.19	15.41	17.31	16.98	21.35	21.03	19.62	19.47
3	17.37	17.22	18.25	18.12	15.41	15.11	18.04	17.29	21.44	21.30	19.71	19.46
4	17.29	16.63	18.19	18.11	15.15	15.02	18.88	18.04	21.48	21.35	19.47	19.23
5	16.65	16.37	18.49	18.14	15.06	14.84	19.45	18.88	21.58	21.47	19.36	18.70
6	16.37	16.18	18.72	18.47	14.84	14.58	19.53	19.36	21.67	21.54	18.70	18.31
7	16.32	16.17	18.86	18.67	14.68	14.49	19.66	19.38	21.83	21.67	18.39	18.30
8	16.34	16.21	19.02	18.76	14.78	14.59	19.97	19.66	22.06	21.83	18.68	18.34
9	16.98	16.18	19.21	18.90	14.93	14.68	20.30	19.93	22.22	22.06	19.21	18.68
10	17.47	16.98	19.16	18.95	14.99	14.81	20.51	20.30	22.26	22.06	19.37	19.21
11	17.44	16.95	18.97	18.85	15.31	14.99	20.48	20.05	22.16	22.08	19.60	19.36
12	16.95	16.64	19.08	18.81	15.46	15.31	20.05	19.68	22.15	21.89	19.90	19.57
13	16.79	16.65	19.26	19.02	15.59	15.41	19.76	19.57	21.89	21.53	20.05	19.88
14	16.82	16.67	19.22	19.07	15.69	15.55	19.57	19.23	21.57	21.40	20.11	20.04
15	16.98	16.81	19.16	19.05	15.86	15.67	19.23	19.10	21.71	21.49	20.04	19.89
16	17.49	16.98	19.24	19.14	16.19	15.84	19.34	19.06	21.55	21.32	20.11	19.93
17	17.71	17.49	19.36	19.16	16.69	16.17	19.69	19.33	21.39	21.23	20.20	20.11
18	17.55	17.23	19.67	19.33	16.78	16.68	19.92	19.69	21.45	21.27	20.26	19.96
19	17.34	17.14	19.74	19.33	16.85	16.71	20.05	19.85	21.45	21.22	19.96	19.59
20	17.58	17.24	19.33	18.60	17.10	16.76	19.85	19.60	21.23	21.07	19.59	19.39
21	17.71	17.55	18.60	18.37	17.22	17.01	19.86	19.56	21.28	21.11	19.74	19.42
22	17.82	17.61	18.51	18.30	17.65	17.22	20.35	19.86	21.17	21.07	19.99	19.74
23	17.96	17.77	18.86	18.51	17.98	17.65	20.72	20.35	21.18	21.05	20.11	19.93
24	17.97	17.88	18.81	18.69	17.96	17.82	20.95	20.72	21.18	20.95	20.45	20.11
25	17.96	17.76	19.17	18.70	17.94	17.55	20.97	20.86	20.99	20.77	20.56	20.12
26	17.78	17.46	19.46	19.11	17.58	17.35	21.05	20.93	20.84	20.73	20.12	19.76
27	17.50	17.33	19.43	19.27	17.75	17.50	21.14	20.91	20.82	20.69	19.94	19.76
28	17.65	17.36	19.47	19.20	17.75	17.43	21.14	20.97	20.69	20.20	20.02	19.87
29	17.91	17.65	19.47	19.27	17.47	17.15	21.44	21.11	20.20	19.97	20.02	19.90
30	18.13	17.91	19.50	19.03	17.33	17.15	21.59	21.44	20.08	19.97	20.19	19.93
31	---	---	19.03	17.47	---	---	21.55	21.25	20.01	19.78	---	---
MONTH	18.13	16.17	19.74	17.47	17.98	14.49	21.59	16.98	22.26	19.78	20.56	18.30
YEAR	22.26	12.04										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

WORCESTER COUNTY--Continued

WELL NUMBER.--WO Bh 31. SITE ID.--382215075041801. PERMIT NUMBER.--WO-04-9586.

LOCATION.--Lat 38°22'15", long 75°04'18", Hydrologic Unit 020060010, at 44th St., Ocean City.

Owner: Town of Ocean City.

AQUIFER.--Ocean City aquifer of Upper Miocene age. Aquifer code: 1220CNC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 278 ft; casing diameter 4 in., to 263 ft; screen diameter 3 in. from 263 to 278 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Periodic measurements with chalked steel tape September 1970 to May 1985. Equipped with digital water-level recorder--60-minute recording interval, May 1985 to current year.

DATUM.--Altitude of land surface is 5.59 ft above sea level.

Measuring Point: Top of shelter platform, 2.49 ft above land surface.

REMARKS.--Ocean City ground-water monitoring network well. Water levels are affected by nearby ground-water withdrawal, especially during summer peak demands. Missing data due to recorder malfunction.

PERIOD OF RECORD.--September 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.55 ft below land surface, March 13, 1993; lowest measured, 51.44 ft below land surface, August 16, 1998.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	15.31	14.16	12.26	11.30	8.55	7.60	8.91	7.90	7.65	6.47
2	---	---	14.84	13.32	12.12	11.11	8.67	7.71	8.99	8.16	7.43	6.13
3	---	---	14.92	13.47	12.65	11.41	8.73	7.81	9.01	7.61	7.44	6.48
4	---	---	15.46	14.33	12.71	11.60	8.75	7.62	8.16	6.78	7.45	6.32
5	---	---	15.47	14.36	12.73	11.60	8.70	7.51	7.76	6.64	7.38	6.23
6	---	---	15.23	14.05	12.56	11.43	8.90	7.73	8.58	7.56	7.41	6.35
7	---	---	14.81	13.56	12.35	11.24	8.49	7.28	8.70	7.66	7.58	6.40
8	---	---	14.29	13.02	12.59	11.52	8.56	7.47	8.56	7.38	7.48	6.18
9	---	---	14.11	12.89	12.45	11.31	8.59	7.42	8.16	7.12	7.13	5.99
10	---	---	14.11	13.12	11.93	10.71	8.22	6.86	8.16	6.97	7.38	6.03
11	---	---	14.02	12.55	12.41	11.31	8.14	6.94	7.61	6.60	7.12	5.84
12	---	---	13.08	11.84	12.83	11.48	8.78	7.89	7.62	6.58	7.29	5.74
13	---	---	13.11	12.23	11.79	10.58	8.30	7.22	7.61	6.64	7.84	6.43
14	---	---	13.04	12.08	11.20	9.82	8.33	7.22	7.63	6.38	7.77	6.88
15	---	---	13.03	12.09	10.92	10.05	8.22	7.46	7.93	6.61	7.85	6.65
16	---	---	13.28	12.26	11.55	10.25	8.25	7.15	7.94	6.65	7.76	6.63
17	21.16	20.10	13.37	12.52	12.24	11.02	8.38	7.08	7.97	6.61	7.68	6.37
18	30.38	19.94	13.46	12.52	12.23	11.28	8.34	6.62	8.03	6.47	7.43	6.16
19	30.25	20.67	13.53	12.60	11.92	10.65	7.64	6.11	7.58	5.97	7.40	6.03
20	21.19	19.99	13.45	12.36	11.64	10.26	7.72	6.07	7.48	6.09	7.11	5.71
21	20.74	18.10	13.45	12.30	11.96	10.28	7.76	6.21	7.85	6.63	6.77	5.25
22	18.99	17.39	13.48	12.09	12.11	10.55	8.54	6.97	8.03	6.96	6.53	5.41
23	19.55	17.96	13.42	11.87	11.44	9.58	8.96	7.31	7.96	6.95	7.11	5.72
24	19.85	18.61	13.37	11.78	10.73	8.89	8.20	6.59	7.91	6.94	7.41	6.22
25	19.81	17.52	13.25	11.71	10.02	8.40	7.04	5.46	7.82	6.76	7.35	6.49
26	18.40	16.62	12.92	11.47	9.53	8.27	8.08	6.20	7.31	6.54	7.28	6.51
27	17.51	15.69	12.76	11.38	9.46	8.24	8.53	7.45	7.65	6.65	7.15	6.24
28	16.49	14.95	12.96	11.80	9.03	7.87	9.06	7.86	7.82	6.80	6.99	5.89
29	16.08	14.87	13.06	11.98	8.73	7.71	8.77	8.15	7.72	7.00	7.42	6.29
30	16.02	14.72	12.91	11.84	9.17	8.10	8.43	7.63	---	---	7.43	6.59
31	15.50	14.32	---	---	8.86	8.04	8.75	7.23	---	---	7.42	6.46
MONTH	30.38	14.32	15.47	11.38	12.83	7.71	9.06	5.46	9.01	5.97	7.85	5.25

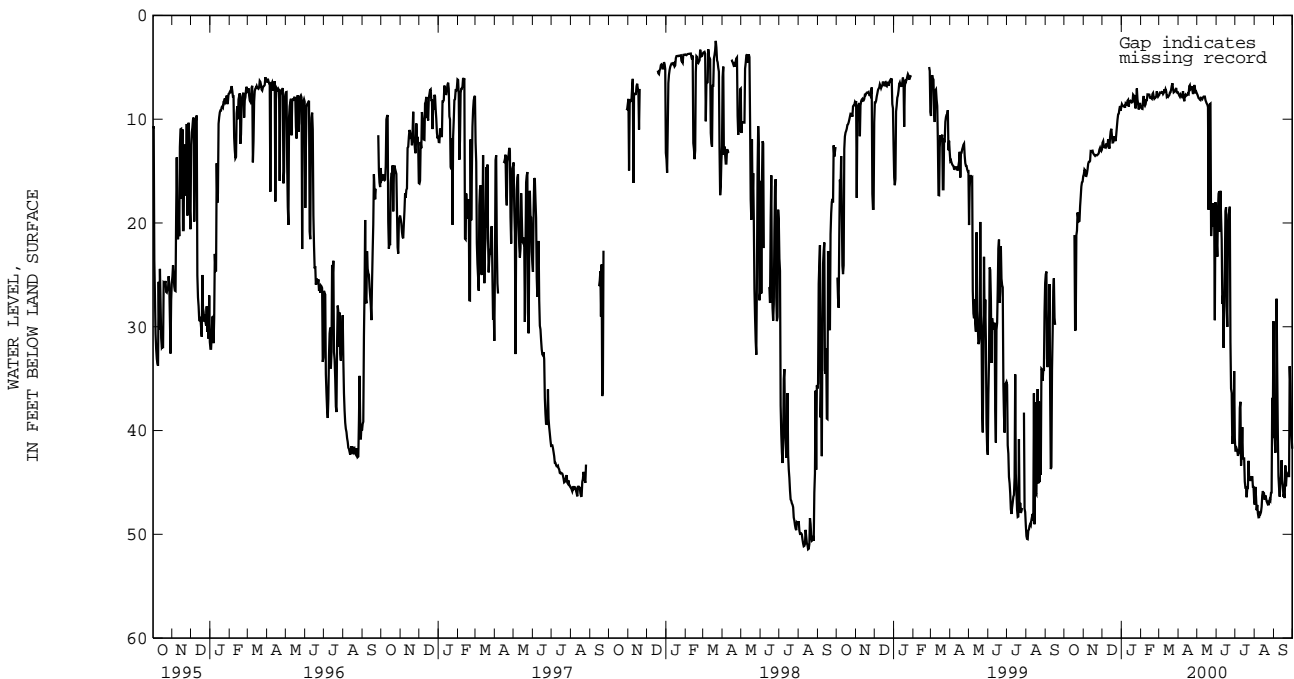
WORCESTER COUNTY--Continued

WO Bh 31--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.59	6.56	7.62	6.56	21.77	15.00	41.94	27.32	47.15	33.36	40.65	25.38
2	7.72	6.73	7.80	6.66	23.25	14.85	41.94	33.35	45.43	33.36	40.73	27.77
3	7.83	6.58	7.97	6.65	18.79	15.41	41.76	33.53	46.38	33.51	42.14	28.26
4	7.63	6.36	8.00	6.58	17.18	15.62	41.94	33.88	47.68	33.95	39.60	27.30
5	7.74	6.55	8.12	6.72	16.94	15.41	42.44	32.65	47.17	34.97	27.30	24.45
6	7.82	6.55	8.16	6.70	20.82	15.42	42.21	32.49	47.97	42.96	34.45	23.73
7	7.63	6.17	7.94	6.60	16.90	15.53	42.08	32.18	48.36	36.35	40.38	25.13
8	7.30	5.96	7.97	6.62	19.47	16.00	37.82	29.87	48.35	34.45	44.42	32.88
9	7.91	5.97	8.05	6.76	21.57	16.44	37.23	30.06	47.96	33.78	45.58	39.59
10	8.27	6.93	7.90	6.90	27.80	19.31	43.38	28.95	48.03	35.11	46.37	37.50
11	7.70	6.80	7.82	6.51	27.02	20.68	41.98	28.52	47.85	34.33	45.16	31.50
12	7.62	6.25	7.82	6.84	32.03	21.20	39.67	28.54	47.34	34.25	44.37	31.90
13	7.74	6.55	7.82	6.80	28.33	19.30	42.67	32.72	46.26	33.54	42.86	35.46
14	7.68	6.69	8.16	6.95	24.44	18.02	42.67	33.32	45.83	32.37	44.76	34.61
15	7.67	6.56	8.33	7.35	18.85	17.42	42.68	41.79	46.23	32.69	45.33	35.45
16	7.52	6.48	8.49	7.37	18.48	17.38	44.92	37.99	46.16	32.96	46.38	38.34
17	7.57	5.89	8.59	7.41	27.99	17.60	45.51	33.35	46.68	33.11	46.11	35.00
18	6.83	5.33	8.83	7.75	30.01	19.13	45.51	32.03	46.25	33.51	46.51	34.69
19	6.72	5.62	18.73	8.22	21.14	18.55	46.43	32.37	46.47	33.42	43.37	34.25
20	7.11	6.00	8.87	7.55	19.21	17.99	45.52	31.70	46.82	33.42	45.37	33.00
21	7.03	5.78	8.55	7.53	18.90	17.89	45.53	33.45	46.97	32.68	44.36	35.01
22	6.82	5.82	8.50	7.49	18.43	17.52	42.92	31.98	46.79	33.57	44.16	33.27
23	7.21	5.92	21.26	7.48	31.48	17.47	44.54	32.36	47.20	33.01	44.27	34.21
24	7.57	6.36	19.57	10.90	35.97	20.44	44.54	32.40	46.91	33.31	44.39	35.52
25	7.36	6.10	20.35	11.58	36.39	29.34	44.86	30.68	46.64	32.10	44.39	33.53
26	6.70	5.87	18.12	12.83	41.29	33.48	44.55	29.81	46.74	32.51	33.80	27.28
27	6.96	5.96	18.54	13.23	40.65	26.97	44.56	30.63	46.01	32.90	35.67	26.22
28	7.38	6.28	20.18	15.23	40.10	26.86	44.41	31.11	45.98	33.34	38.63	26.79
29	7.33	6.49	29.37	15.04	34.27	24.15	45.42	30.95	36.85	33.33	40.56	27.68
30	7.49	6.55	18.00	13.57	40.72	22.77	45.43	31.34	38.41	28.43	41.75	33.14
31	---	---	20.19	14.47	---	---	46.75	33.72	29.47	25.43	---	---
MONTH	8.27	5.33	29.37	6.51	41.29	14.85	46.75	27.32	48.36	25.43	46.51	23.73
YEAR	48.36	5.25										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

WORCESTER COUNTY--Continued

WELL NUMBER.--WO Bh 34. SITE ID.382443075033501. PERMIT NUMBER.--WO-04-9588.
 LOCATION.--Lat 38°24'43", long 75°03'35", Hydrologic Unit 02060010, north side of 100th St., 0.2 mi west of MD Rt. 528, Ocean City.
 Owner: Town of Ocean City.
 AQUIFER.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.
 WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 353 ft; casing diameter 4 in., to 316.2 ft, casing diameter 2.5 in. from 316.2 to 337 ft; screen diameter 2.5 in.(?) from 337 to 353 ft.
 INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recording interval April 1985 to current year. Prior to April 1985, periodic measurements with chalked steel tape.
 DATUM.--Altitude of land surface is 4 ft above sea level, from topographic map.
 Measuring point: Top of recorder shelf, 2.86 ft above land surface.
 REMARKS.--Ocean City ground-water monitoring network well. Water levels are affected by local ground-water withdrawal, especially during summer peak demands. Missing data due to recorder malfunction.
 PERIOD OF RECORD.--December 1972 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.54 ft above land surface, March 27, 1973; lowest measured, 19.04 ft below land surface, Sept. 5, 1995.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.09	9.09	7.26	6.35	5.29	4.43	4.85	4.06	4.94	4.07	3.96	2.94
2	10.07	9.09	6.95	5.55	5.08	4.21	4.85	4.13	5.06	4.39	3.77	2.67
3	10.06	9.11	7.16	5.80	5.57	4.50	4.93	4.21	5.11	3.98	3.82	3.01
4	9.88	8.98	7.69	6.67	5.67	4.71	4.94	4.03	4.39	3.27	3.86	2.92
5	9.66	8.31	7.71	6.78	5.69	4.76	4.98	3.98	4.06	3.18	3.74	2.78
6	9.36	8.43	7.54	6.55	5.54	4.61	5.19	4.23	4.84	4.01	3.75	2.84
7	9.44	8.59	7.20	6.14	5.46	4.58	4.88	3.87	4.93	4.08	3.87	2.92
8	9.44	8.56	6.72	5.62	5.71	4.82	5.01	4.10	4.85	3.87	3.81	2.73
9	9.43	8.56	6.54	5.51	5.79	4.88	5.01	4.02	4.47	3.62	3.50	2.57
10	9.40	8.45	6.67	5.83	5.57	4.53	4.66	3.53	4.51	3.53	3.76	2.57
11	9.23	8.31	6.58	5.37	5.86	4.97	4.69	3.60	4.01	3.22	3.49	2.37
12	8.93	8.13	5.89	5.05	6.20	5.05	5.20	4.49	4.11	3.25	3.59	2.26
13	8.85	8.06	6.05	5.31	5.22	4.22	4.76	3.89	4.04	3.31	3.98	2.88
14	8.92	8.06	5.85	5.03	4.71	3.53	4.87	3.93	4.02	2.96	3.91	3.23
15	8.99	8.23	5.75	5.00	4.49	3.78	4.77	4.17	4.35	3.22	4.03	3.04
16	8.78	8.05	5.94	5.15	5.04	3.95	4.88	3.87	4.46	3.28	4.02	3.04
17	8.41	7.56	6.06	5.33	5.68	4.66	4.87	3.85	4.50	3.34	3.90	2.84
18	7.86	7.17	6.16	5.33	5.64	4.84	4.85	3.24	4.55	3.20	3.75	2.66
19	7.80	7.04	6.22	5.42	5.39	4.22	3.99	2.75	4.14	2.74	3.68	2.46
20	7.81	7.03	6.18	5.23	5.05	3.82	4.06	2.57	4.08	2.79	3.43	2.15
21	7.87	7.01	6.18	5.15	5.27	3.81	4.10	2.69	4.23	3.20	3.05	1.71
22	7.78	6.51	6.19	4.95	5.42	4.05	4.75	3.37	4.34	3.40	2.85	1.73
23	7.60	6.30	6.16	4.79	5.45	4.05	5.08	3.59	4.24	3.42	3.36	2.03
24	7.80	6.74	6.15	4.74	5.55	4.03	4.28	2.87	4.23	3.42	3.74	2.65
25	7.91	6.71	6.09	4.72	5.34	4.00	3.29	1.75	4.17	3.31	3.72	3.06
26	8.07	6.89	5.79	4.53	5.28	4.11	4.10	2.38	3.65	3.12	3.70	3.08
27	8.10	6.75	5.69	4.53	5.28	4.33	4.55	3.61	3.85	3.16	3.60	2.85
28	7.62	6.35	5.83	4.84	5.09	4.14	5.01	4.06	3.98	3.22	3.29	2.50
29	7.56	6.55	5.92	5.05	4.87	4.03	4.85	4.29	3.96	3.41	3.73	2.83
30	7.69	6.63	5.76	4.92	5.33	4.39	4.52	3.80	---	---	3.71	3.10
31	7.35	6.39	---	---	5.13	4.43	4.71	3.46	---	---	3.71	2.98
MONTH	10.09	6.30	7.71	4.53	6.20	3.53	5.20	1.75	5.11	2.74	4.03	1.71

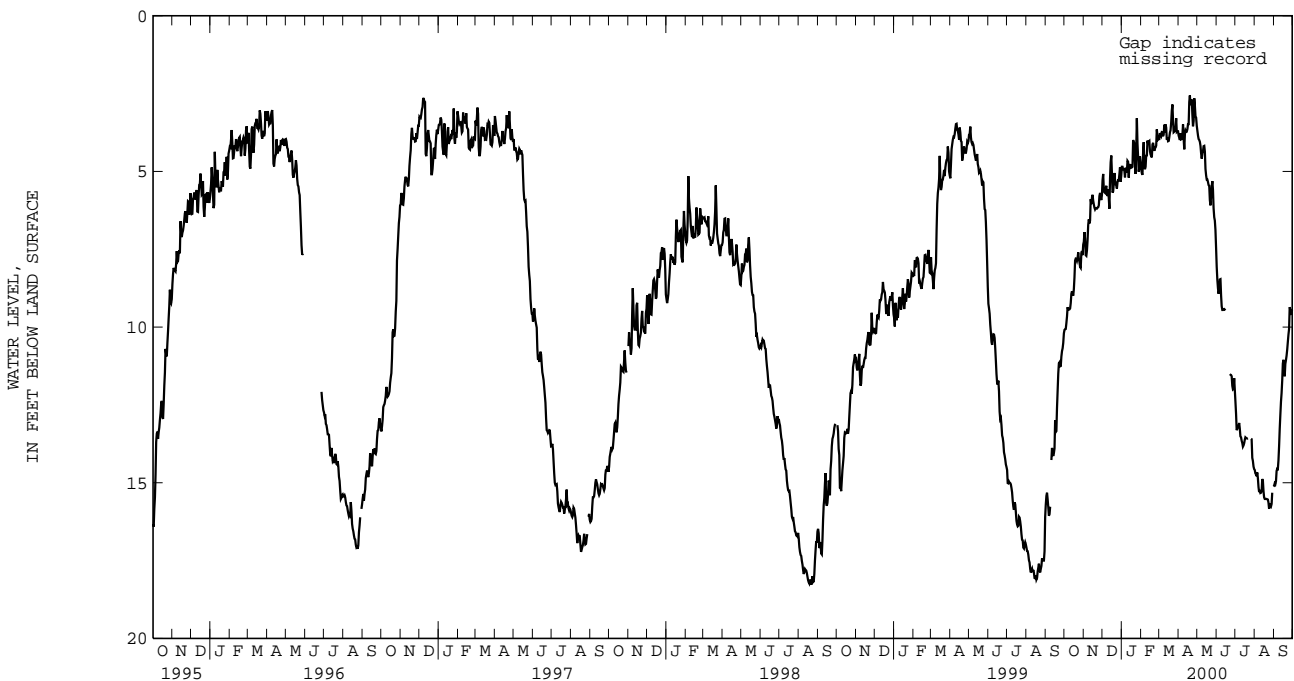
WORCESTER COUNTY--Continued

WO Bh 34--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	3.85	3.05	3.69	2.77	8.06	6.94	12.39	11.11	14.59	13.34	15.10	14.13
2	3.92	3.14	3.85	2.87	8.48	7.21	12.79	11.63	14.70	13.49	15.02	14.12
3	3.99	2.94	3.96	2.82	8.75	7.48	13.31	11.99	14.73	13.57	15.05	14.12
4	3.78	2.75	3.99	2.73	8.93	7.63	13.27	12.05	14.79	13.81	14.95	14.14
5	3.97	2.93	4.05	2.77	8.81	7.48	13.20	12.08	14.67	13.85	14.62	13.78
6	3.96	2.91	4.18	2.89	8.47	7.32	13.17	12.17	14.85	14.09	14.55	13.84
7	3.83	2.54	4.42	3.04	8.46	7.28	13.08	12.14	15.14	14.43	14.56	13.82
8	3.49	2.36	4.59	3.39	8.98	7.79	13.26	12.39	15.30	14.56	14.28	13.34
9	3.95	2.36	4.42	3.51	9.33	8.40	13.51	12.78	15.23	14.47	13.82	12.77
10	4.29	3.18	4.35	3.50	9.45	8.82	13.54	12.93	15.33	14.54	13.27	12.19
11	3.81	3.06	4.19	3.04	9.45	9.00	13.65	12.84	15.32	14.47	12.81	11.74
12	3.68	2.55	4.18	3.39	9.43	8.85	13.72	12.90	15.26	14.21	12.40	11.37
13	3.72	2.77	4.36	3.32	9.42	8.72	13.84	12.96	14.88	13.78	12.12	11.04
14	3.72	2.85	4.92	3.68	9.44	8.88	13.80	12.86	14.94	14.07	11.71	10.48
15	3.64	2.72	5.13	4.31	9.46	9.09	13.73	12.71	15.27	14.33	11.17	10.19
16	3.48	2.60	5.26	4.34	---	---	13.62	12.69	15.47	14.60	11.05	10.11
17	3.48	1.99	5.26	4.26	---	---	13.54	12.86	15.52	14.83	11.25	10.30
18	2.77	1.41	5.34	4.47	---	---	13.56	13.02	15.52	14.84	11.58	10.65
19	2.56	1.62	5.44	4.32	---	---	13.57	13.02	15.52	14.84	11.18	10.77
20	2.87	1.86	5.46	4.41	---	---	13.58	13.02	15.52	14.97	11.06	10.05
21	2.81	1.76	5.92	4.68	---	---	13.57	13.11	15.53	15.20	10.92	9.94
22	2.69	1.76	6.09	5.13	11.51	10.87	---	---	15.54	15.27	10.72	9.71
23	3.18	2.00	5.79	4.95	11.53	10.91	---	---	15.64	15.00	10.48	9.31
24	3.55	2.58	5.47	4.71	11.54	10.97	---	---	15.84	14.84	10.24	9.04
25	3.38	2.35	5.31	4.60	11.58	10.93	---	---	15.67	14.63	10.06	8.45
26	2.65	2.10	5.59	4.66	11.89	11.13	13.59	13.19	15.73	14.58	9.36	7.89
27	2.88	2.11	6.18	5.11	12.00	11.15	13.60	13.19	15.76	14.55	9.43	8.19
28	3.23	2.41	6.47	5.58	11.98	10.81	14.20	12.94	15.68	14.32	9.61	8.49
29	3.27	2.61	6.58	5.77	11.64	10.48	14.30	12.94	15.32	13.92	9.48	8.34
30	3.53	2.73	6.88	5.84	12.02	10.79	14.48	13.11	---	---	9.44	8.39
31	---	---	7.46	6.39	---	---	14.56	13.16	15.12	14.08	---	---
MONTH	4.29	1.41	7.46	2.73	12.02	6.94	14.56	11.11	15.84	13.34	15.10	7.89
YEAR	15.84	1.41										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

WORCESTER COUNTY--Continued

WELL NUMBER.--WO Bh 84. SITE ID.--382215075041901. PERMIT NUMBER.--WO-73-0095.
 LOCATION.--Lat 38°22'15", long 75°04'19", Hydrologic Unit 02060010, west end of 44th St., Ocean City.
 Owner: U.S. Geological Survey.

AQUIFER.--Beaverdam Sand of Pliocene age. Aquifer code: 121BVDM.
 WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 89 ft; casing diameter 4 in., to 84 ft;
 screen diameter 4 in. from 84 to 89 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.
 DATUM.--Elevation of land surface is 5 ft above sea level, from topographic map.

Measuring point: Top of 4 in. coupling, 2.55 ft above land surface.

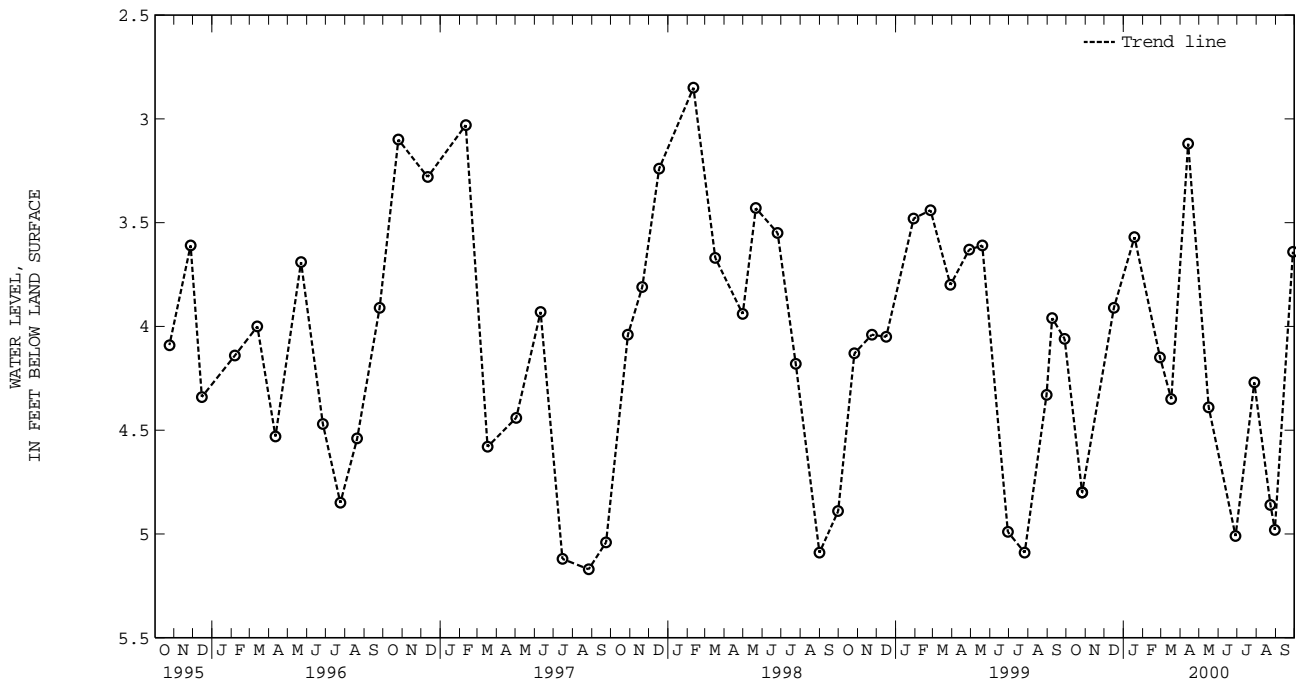
REMARKS.--Ocean City ground-water monitoring network well.

PERIOD OF RECORD.--April 1973 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.55 ft below land surface, Jan. 11, 1993;
 lowest measured, 6.34 ft below land surface, Sept. 17, 1991.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 1999	4.8	FEB 28, 2000	4.15	JUN 28, 2000	5.01	SEP 28, 2000	3.64
26	4.80	MAR 17	4.35	JUL 28	4.27		
DEC 16	3.91	APR 13	3.12	AUG 23	4.86		
JAN 18, 2000	3.57	MAY 16	4.39	30	4.98		
WATER YEAR 2000 HIGHEST		3.12 APR 13, 2000		LOWEST		5.01 JUN 28, 2000	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

WORCESTER COUNTY--Continued

WELL NUMBER.--WO Bh 85. SITE ID.--382215075041902. PERMIT NUMBER.--WO-73-0094.

LOCATION.--Lat 38°22'15", long 75°04'19", Hydrologic Unit 02060010, west end of 44th St., Ocean City.

Owner: U.S. Geological Survey.

AQUIFER.--Pocomoke aquifer of Upper Miocene-Pliocene age. Aquifer code: 122PCMK.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 195 ft; casing diameter 4 in., to 190 ft. screen diameter 4 in. from 190 to 195 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 5 ft above sea level, from topographic map.

Measuring point: Top of 4 in. casing, 1.78 ft above land surface.

REMARKS.--Ocean City ground-water monitoring network well. Water levels maybe affected by seasonal ground-water withdrawal.

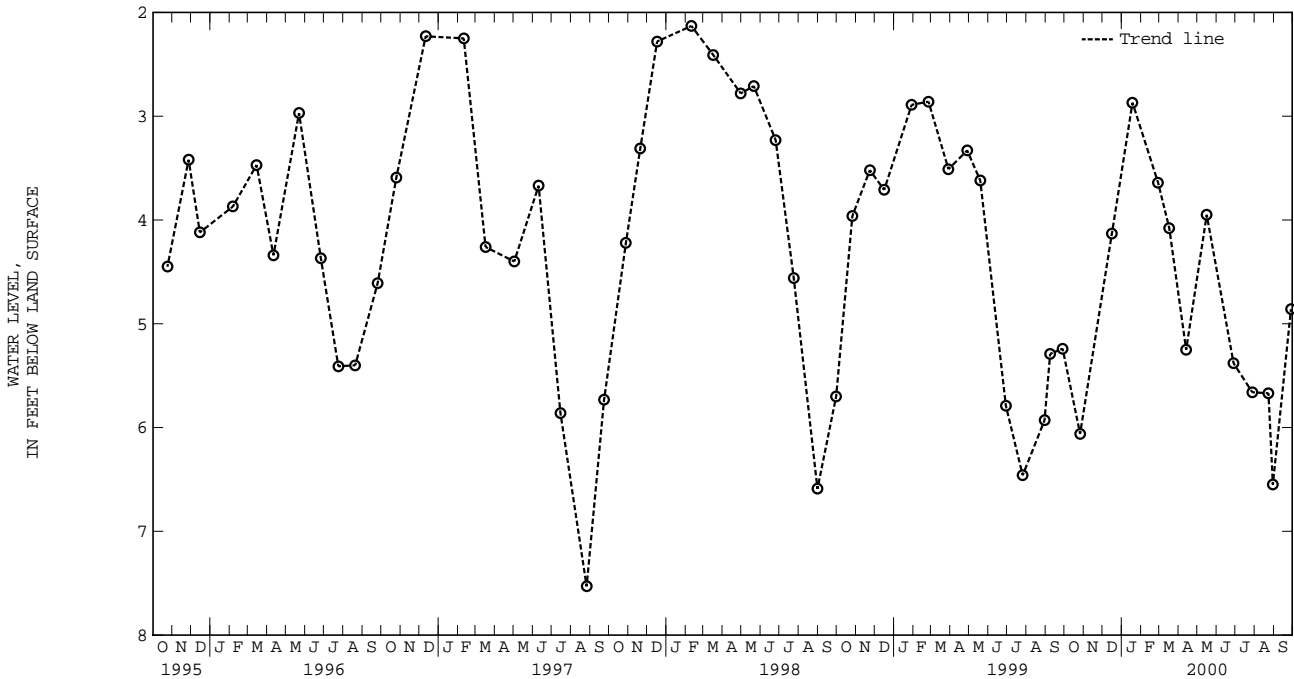
PERIOD OF RECORD.--April 1973 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.43 ft below land surface, Jan. 11, 1993;

lowest measured, 7.53 ft below land surface, August 26, 1997.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 1999	6.06	FEB 28, 2000	3.64	MAY 16, 2000	3.95	AUG 23, 2000	5.67
DEC 16	4.13	MAR 17	4.08	JUN 28	5.38	30	6.55
JAN 18, 2000	2.87	APR 13	5.25	JUL 28	5.66	SEP 28	4.86
WATER YEAR 2000 HIGHEST		2.87	JAN 18, 2000		LOWEST		6.55
						AUG 30, 2000	



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

WORCESTER COUNTY--Continued

WELL NUMBER.--WO Bh 89. SITE ID.--382215075041903 PERMIT NUMBER.--WO-81-1497.

LOCATION.--Lat 38°22'15", long 75°04'19", Hydrologic Unit 020060010, at 44th St., Ocean City.

Owner: Town of Ocean City.

AQUIFER.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 500 ft; casing diameter 4 in., to 388 ft; screen diameter 4 in. from 388 to 500 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recording interval, October 1986 to current year.

DATUM.--Altitude of land surface is 5.59 ft above sea level.

Measuring Point: Top of recorder shelf, 2.84 ft above land surface.

REMARKS.--Ocean City ground-water monitoring network well. Water levels are affected by nearby ground-water withdrawal, especially during summer peak demands. Missing data due to recorder malfunction.

PERIOD OF RECORD.--October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 0.42 ft below land surface, Oct. 8, 1993;
lowest recorded, 40.65 ft below land surface, Aug. 17, 1998.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	27.78	23.26	13.98	12.95	11.05	10.07	7.61	6.74	7.87	6.98	6.73	5.60
2	28.72	24.11	13.59	12.11	10.79	9.87	7.66	6.83	7.95	7.27	6.43	5.26
3	28.11	24.76	13.57	12.25	11.31	10.16	7.75	6.94	8.00	6.73	6.45	5.59
4	25.92	22.74	14.08	13.08	11.35	10.35	7.75	6.75	7.18	5.95	6.48	5.45
5	23.16	21.01	14.12	13.12	11.39	10.37	7.67	6.63	6.73	5.79	6.39	5.34
6	21.79	20.58	13.90	12.83	11.22	10.20	7.92	6.87	7.56	6.67	6.39	5.47
7	21.44	20.32	13.48	12.34	11.04	10.04	7.52	6.43	7.67	6.79	6.57	5.53
8	21.11	20.01	12.96	11.80	11.26	10.30	7.60	6.62	7.55	6.51	6.47	5.32
9	25.32	19.90	12.77	11.69	11.21	10.15	7.62	6.56	7.17	6.26	6.15	5.12
10	26.65	23.29	12.79	11.90	10.74	9.60	7.24	6.00	7.17	6.14	6.38	5.12
11	23.44	20.96	12.70	11.36	11.12	10.10	7.19	6.06	6.64	5.75	6.11	4.99
12	21.42	20.21	11.85	10.78	11.51	10.27	7.77	7.01	6.62	5.75	6.27	4.84
13	20.76	19.59	11.82	11.02	10.50	9.38	7.32	6.35	6.60	5.78	6.80	5.50
14	20.35	19.60	11.72	10.84	9.93	8.63	7.36	6.37	6.63	5.50	6.75	5.93
15	20.18	19.13	11.70	10.83	9.61	8.86	7.26	6.59	6.93	5.73	6.84	5.74
16	19.65	18.81	11.94	11.00	10.23	9.04	7.27	6.29	6.93	5.80	6.82	5.74
17	19.20	18.23	12.03	11.25	10.91	9.79	7.39	6.24	6.94	5.79	6.67	5.48
18	21.97	17.89	12.14	11.26	10.90	10.03	7.39	5.71	7.03	5.61	6.42	5.28
19	21.66	18.76	12.20	11.36	10.65	9.42	6.58	5.24	6.59	5.14	6.39	5.14
20	19.25	18.13	12.12	11.14	10.31	9.04	6.69	5.18	6.47	5.23	6.10	4.81
21	18.81	16.76	12.11	11.05	10.52	9.07	6.73	5.33	6.83	5.75	5.75	4.35
22	17.24	16.05	12.13	10.85	10.74	9.34	7.49	6.07	7.00	6.06	5.53	4.44
23	17.53	16.14	12.07	10.67	10.31	8.63	7.91	6.42	6.94	6.07	6.09	4.75
24	17.87	16.77	12.01	10.59	9.68	8.03	7.17	5.69	6.91	6.07	6.40	5.31
25	17.89	16.17	11.89	10.52	9.02	7.53	6.01	4.55	6.84	5.95	6.35	5.59
26	16.96	15.35	11.57	10.28	8.55	7.41	7.05	5.26	6.31	5.66	6.29	5.60
27	16.14	14.48	11.43	10.23	8.47	7.38	7.50	6.52	6.63	5.75	6.14	5.38
28	15.15	13.74	11.60	10.55	8.06	6.99	8.02	6.93	6.80	5.88	5.97	4.98
29	14.74	13.66	11.71	10.74	7.73	6.83	7.85	7.22	6.73	6.10	6.40	5.39
30	14.68	13.50	11.56	10.60	8.18	7.20	7.52	6.69	---	---	6.42	5.68
31	14.17	13.10	---	---	7.99	7.16	7.70	6.33	---	---	6.42	5.56
MONTH	28.72	13.10	14.12	10.23	11.51	6.83	8.02	4.55	8.00	5.14	6.84	4.35

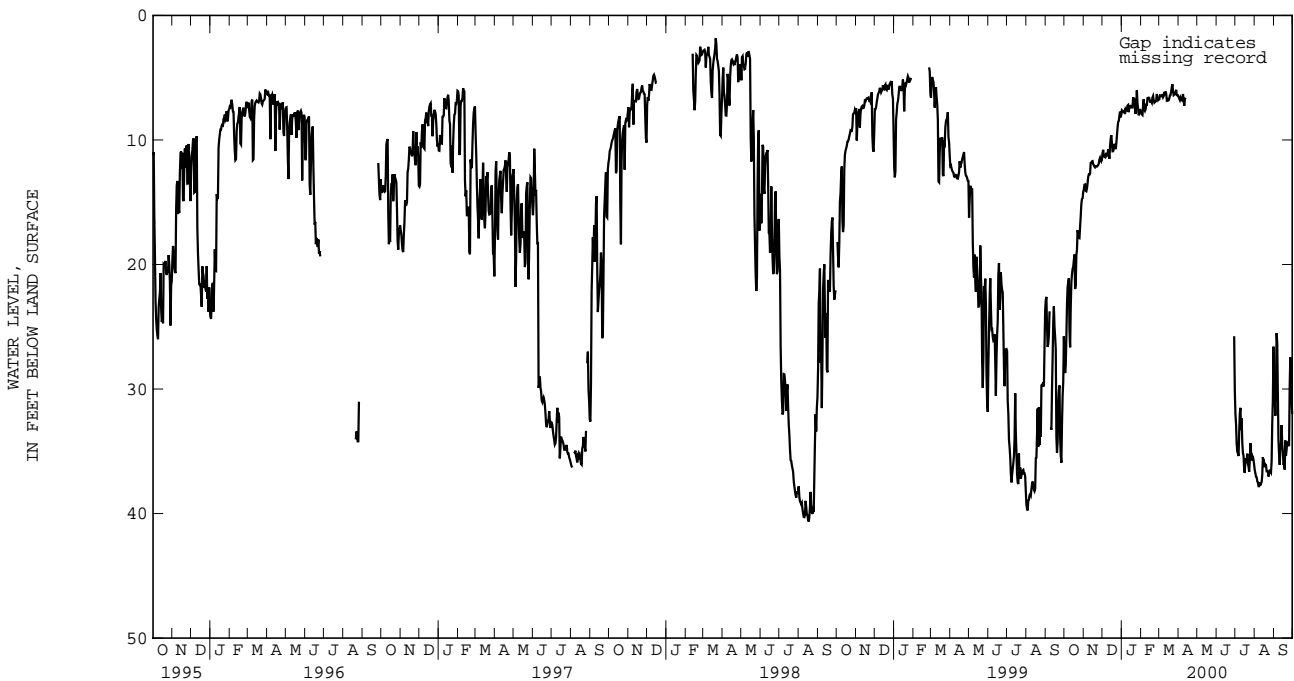
WORCESTER COUNTY--Continued

WO Bh 89--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.56	5.67	---	---	---	---	31.97	24.99	36.52	30.93	30.45	23.63
2	6.68	5.83	---	---	---	---	32.85	27.00	36.77	30.92	30.77	25.83
3	6.80	5.70	---	---	---	---	34.40	30.02	37.04	31.20	32.14	26.30
4	6.61	5.51	---	---	---	---	35.03	31.01	37.08	31.60	29.67	25.34
5	6.75	5.67	---	---	---	---	35.16	30.11	37.40	32.70	25.51	22.65
6	6.80	5.68	---	---	---	---	35.38	30.02	37.51	34.47	26.32	21.81
7	6.62	5.30	---	---	---	---	33.50	29.74	37.80	33.87	30.37	23.24
8	6.31	5.10	---	---	---	---	32.00	27.62	37.80	32.22	34.14	28.61
9	6.86	5.08	---	---	---	---	31.51	27.76	37.51	31.61	35.28	31.27
10	7.25	6.01	---	---	---	---	33.30	26.76	37.74	32.76	36.09	33.23
11	6.71	5.95	---	---	---	---	32.36	26.30	37.58	31.97	34.89	29.38
12	6.61	5.36	---	---	---	---	34.30	26.26	37.48	32.04	34.38	29.63
13	---	---	---	---	---	---	35.14	29.38	36.91	31.23	32.89	31.17
14	---	---	---	---	---	---	35.34	29.17	35.47	29.98	34.45	30.32
15	---	---	---	---	---	---	36.46	35.34	36.00	30.42	34.98	31.07
16	---	---	---	---	---	---	36.74	33.40	35.89	30.52	36.09	33.58
17	---	---	---	---	---	---	35.56	30.18	36.28	30.81	35.98	32.38
18	---	---	---	---	---	---	35.82	29.65	36.06	31.24	36.47	32.25
19	---	---	---	---	---	---	35.74	30.06	36.11	30.40	34.13	31.73
20	---	---	---	---	---	---	35.19	29.39	36.60	31.06	35.36	30.73
21	---	---	---	---	---	---	36.08	29.98	36.59	30.39	34.88	31.03
22	---	---	---	---	---	---	36.20	29.67	36.62	31.32	34.31	30.43
23	---	---	---	---	---	---	36.65	30.01	37.03	30.80	34.27	30.72
24	---	---	---	---	---	---	35.78	29.97	36.81	30.97	34.44	31.39
25	---	---	---	---	---	---	34.35	28.38	36.56	30.06	34.59	29.55
26	---	---	---	---	---	---	35.11	27.63	36.59	30.38	29.73	25.50
27	---	---	---	---	---	---	35.73	28.30	36.69	30.79	27.45	24.34
28	---	---	---	---	---	---	35.36	28.72	35.83	29.84	29.16	24.89
29	---	---	---	---	25.76	22.14	35.48	28.91	32.83	28.48	31.00	25.83
30	---	---	---	---	30.14	20.70	35.69	29.14	30.85	26.60	32.01	29.01
31	---	---	---	---	---	---	36.09	30.98	26.60	23.71	---	---
MONTH	7.25	5.08	---	---	30.14	20.70	36.74	24.99	37.80	23.71	36.47	21.81
YEAR	37.80	4.35										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

WORCESTER COUNTY--Continued

WELL NUMBER.--WO Bh 98. SITE ID.--382127075043802. PERMIT NUMBER.--WO-81-1822.

LOCATION.--Lat 38°21'27", long 75°04'38", Hydrologic Unit 02060010, at 28th Street Park, Ocean City.

Owner: Town of Ocean City.

AQUIFER.--Ocean City aquifer of Upper Miocene age. Aquifer code: 122OCNC.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 275 ft; casing diameter 4 in., to 255 ft; screen diameter 4 in. from 255 to 275 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel. Equipped with digital water-level recorder--60-minute recorder interval from November 1990 to current year.

DATUM.--Altitude of land surface is 5 ft above sea level.

Measuring Point: Top of casing, 2.52 ft above land surface.

REMARKS.--Ocean City ground-water monitoring network well. Water levels are affected by local ground-water withdrawal, especially during summer peak demand. Periods of equal maximum and minimum daily values may be questionable due to the float hanging-up or other well construction factors.

PERIOD OF RECORD.--January 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.89 ft above land surface, April 2, 1993; lowest measured, 97.71 ft below land surface, Aug. 17, 2000.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	94.33	94.33	82.51	81.97	79.13	51.04	12.73	12.72	13.67	12.24	11.03	10.06
2	94.33	94.33	82.19	81.13	79.12	79.12	13.06	12.73	12.24	11.77	10.06	9.44
3	94.33	94.33	81.74	81.05	79.12	78.76	13.06	11.95	12.02	11.00	9.44	9.36
4	94.33	94.33	82.16	81.62	78.96	78.50	11.95	11.04	11.00	10.08	9.36	9.36
5	94.33	94.33	82.19	81.68	79.22	78.93	12.21	11.07	10.09	10.09	9.36	9.36
6	94.33	94.33	81.94	81.40	79.12	28.87	11.87	10.65	10.09	10.09	9.36	9.36
7	94.33	94.33	82.45	81.56	39.18	28.87	10.65	10.16	10.09	10.09	9.36	9.36
8	94.33	94.33	82.12	81.23	45.38	22.69	10.32	10.32	10.09	10.09	9.36	9.36
9	94.33	94.33	81.40	28.97	36.57	20.18	10.32	10.32	10.09	10.09	9.36	9.36
10	94.33	94.33	48.44	48.44	38.15	20.18	10.32	10.07	10.09	10.09	9.36	9.36
11	94.33	94.33	48.45	30.35	38.15	38.15	10.36	10.05	10.09	9.75	9.36	9.36
12	94.33	94.33	42.39	21.53	38.15	38.15	10.36	10.36	9.75	9.60	9.36	9.36
13	94.33	94.33	42.39	42.39	77.86	34.70	10.47	10.36	9.61	9.61	9.36	9.36
14	94.33	45.58	42.39	42.39	36.70	27.98	10.47	10.22	9.61	9.61	9.36	9.36
15	49.61	36.02	42.39	42.39	34.24	27.98	10.39	10.28	9.61	9.61	9.36	9.36
16	49.61	49.61	42.39	42.39	77.09	34.24	11.94	10.39	9.62	9.61	9.36	9.36
17	49.61	49.61	42.39	42.39	77.09	77.09	12.02	11.93	9.62	9.50	11.40	9.36
18	49.61	49.61	59.01	42.39	77.32	77.09	12.02	12.02	9.60	9.07	11.84	11.23
19	49.61	49.61	80.41	59.01	77.32	77.32	12.56	12.02	9.12	9.10	11.85	10.51
20	91.13	49.61	81.62	80.37	78.17	77.32	12.56	12.34	9.12	9.12	11.81	10.51
21	91.03	90.15	81.70	80.83	79.58	78.13	12.35	12.35	9.12	9.12	11.97	9.91
22	90.15	90.15	80.97	80.00	79.58	16.55	12.35	12.35	9.12	9.12	10.13	9.47
23	90.15	90.15	80.28	79.46	16.55	14.38	12.35	12.35	9.12	9.12	9.65	9.48
24	90.15	90.14	79.91	79.12	14.38	13.22	12.35	12.35	9.15	9.12	9.57	9.49
25	90.14	88.17	79.65	78.89	13.31	12.75	13.15	11.84	9.15	9.15	9.72	9.57
26	88.33	83.63	80.01	79.07	12.81	11.81	11.85	11.84	9.15	9.15	10.84	9.72
27	83.81	83.12	79.41	49.92	13.21	12.61	11.85	11.82	9.15	9.15	10.87	10.84
28	83.37	82.58	53.22	53.22	13.37	13.03	11.83	11.83	11.72	9.15	11.48	10.87
29	83.01	82.45	53.22	33.25	13.25	12.48	14.40	11.83	11.72	10.77	11.48	11.12
30	82.77	82.18	51.04	51.04	12.97	12.44	14.40	13.05	---	---	11.27	11.01
31	82.90	82.23	---	---	12.72	12.39	13.67	12.82	---	---	11.02	10.44
MONTH	94.33	36.02	82.51	21.53	79.58	11.81	14.40	10.05	13.67	9.07	11.97	9.36

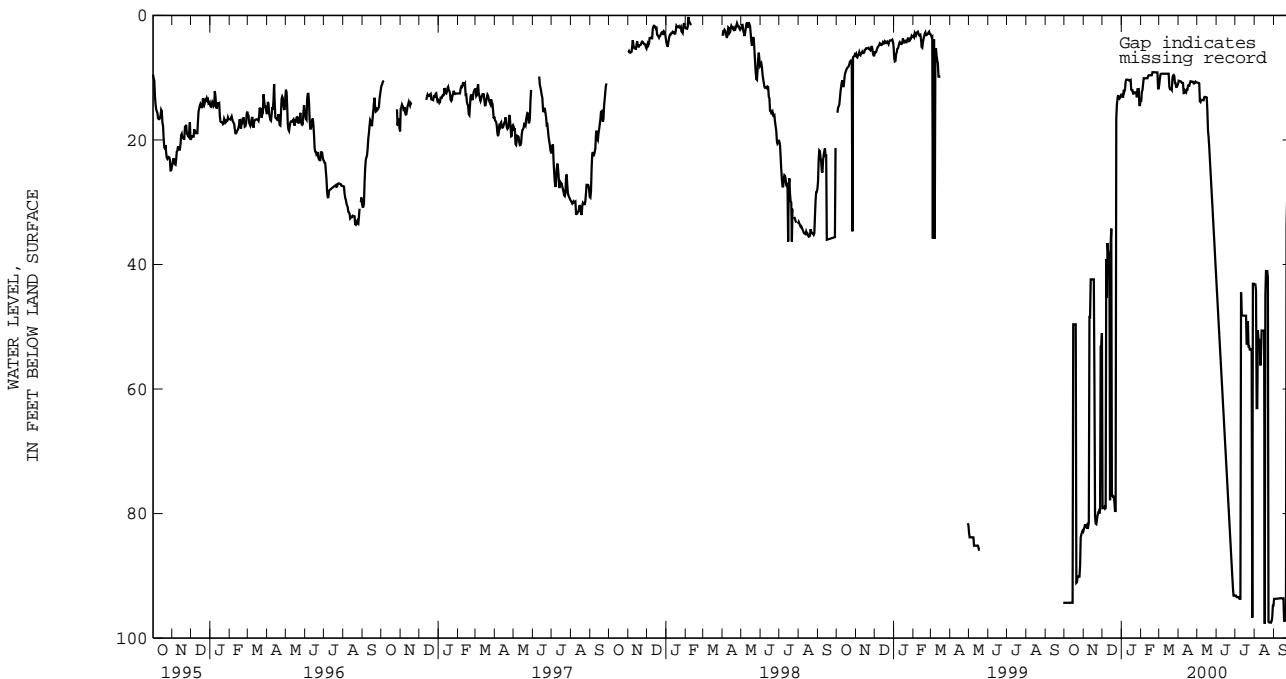
WORCESTER COUNTY--Continued

WO Bh 98--Continued

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.49	10.45	10.79	10.77	43.61	41.74	93.18	93.18	43.20	43.09	93.71	93.70
2	10.53	10.49	10.81	10.79	45.48	43.61	93.18	93.18	43.21	43.20	93.70	93.69
3	10.56	10.53	10.84	10.81	47.34	45.48	93.42	93.18	44.18	43.21	93.69	93.68
4	10.59	10.56	10.91	10.84	49.20	47.34	93.42	93.42	63.07	44.18	93.68	93.68
5	10.62	10.59	13.79	10.91	51.06	49.20	93.42	93.42	63.07	40.27	93.68	93.67
6	10.83	10.62	13.90	13.51	52.92	51.06	93.42	93.42	50.55	41.73	93.67	93.66
7	10.86	10.67	13.55	13.53	54.77	52.92	93.65	93.42	52.11	40.37	93.66	93.65
8	10.85	10.67	13.56	13.55	56.63	54.77	93.69	93.65	52.11	40.23	93.65	93.63
9	12.47	10.85	13.58	13.56	58.49	56.63	93.69	34.86	52.22	44.22	93.63	93.62
10	12.45	12.07	13.61	13.58	60.35	58.49	44.47	44.47	56.21	50.85	93.62	93.61
11	12.07	11.79	13.62	13.14	62.21	60.35	48.19	41.32	54.54	42.98	93.61	93.60
12	12.21	12.06	13.14	13.04	64.07	62.21	48.19	48.19	50.61	50.61	93.60	93.59
13	12.34	11.76	13.08	13.06	65.93	64.07	48.19	48.19	50.61	50.61	93.59	93.58
14	11.92	11.61	13.10	13.08	67.79	65.93	48.21	48.19	50.61	50.61	93.64	93.58
15	11.92	11.22	13.12	13.10	69.65	67.79	48.22	48.21	50.61	50.61	93.63	93.62
16	11.27	11.24	13.17	12.84	71.51	69.65	48.22	48.22	50.61	50.61	93.62	93.61
17	11.28	11.27	15.23	13.17	73.37	71.51	48.22	48.22	97.71	44.91	97.22	93.61
18	11.30	10.88	18.50	15.23	75.23	73.37	48.23	48.22	44.91	33.51	97.25	96.97
19	10.91	10.53	19.53	18.40	77.09	75.23	52.73	43.21	41.06	41.06	97.09	96.12
20	10.57	10.53	21.16	19.48	78.95	77.09	52.73	42.67	41.06	41.06	96.34	33.61
21	10.59	10.57	23.02	21.16	80.81	78.95	49.15	44.43	41.06	41.06	33.61	28.98
22	10.62	10.59	24.88	23.02	82.68	80.81	53.16	44.43	42.09	41.06	28.98	27.59
23	10.64	10.62	26.74	24.88	84.54	82.68	53.16	53.16	97.40	42.09	27.93	27.17
24	10.66	10.64	28.61	26.74	86.40	84.54	53.66	53.16	97.49	96.89	27.87	27.34
25	10.92	10.66	30.47	28.61	88.26	86.40	53.66	53.66	97.49	96.70	27.91	26.68
26	10.93	10.79	32.35	30.47	90.12	88.26	53.66	53.66	97.43	96.80	26.76	24.92
27	10.79	10.49	34.22	32.35	91.98	90.12	53.66	53.66	97.49	96.87	25.32	24.56
28	10.63	10.57	36.08	34.22	93.19	13.25	96.72	37.71	97.28	96.40	25.12	24.38
29	10.75	10.63	37.96	36.08	93.19	93.19	43.09	31.51	96.71	59.32	25.21	24.37
30	10.77	10.75	39.88	37.96	93.19	93.18	43.09	43.09	94.80	94.73	25.94	25.15
31	---	---	41.74	39.88	---	---	43.09	43.09	94.79	91.69	---	---
MONTH	12.47	10.45	41.74	10.77	93.19	13.25	96.72	31.51	97.71	33.51	97.25	24.37
YEAR	97.71	9.07										

Daily Low Water Levels



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

WORCESTER COUNTY--Continued

WELL NUMBER.--WO Cg 72. SITE ID.--381939075052101. PERMIT NUMBER.--WO-73-1304.

LOCATION.--Lat 38°19'39", long 75°05'21", Hydrologic Unit 02060010, at South Division St., Ocean City.

Owner: Town of Ocean City.

AQUIFER.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 450 ft; casing diameter 4 in., to 384 ft, 394 to 404 ft, and 424 to 445 ft; screen diameter 4 in. from 384 to 394 ft, 404 to 424 ft, and 445 to 450 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 5 ft above sea level, from topographic map.

Measuring point: Top of 6 in. flange, 3.00 ft above land surface.

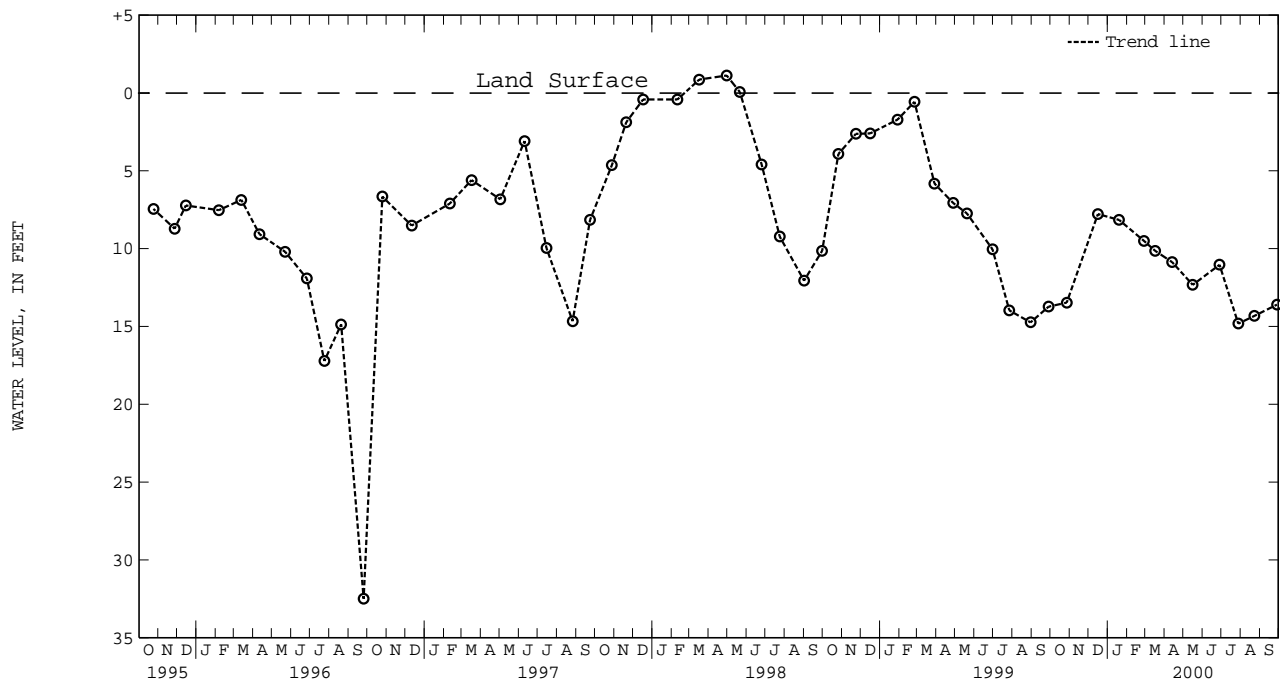
REMARKS.--Ocean City ground-water monitoring network well. Water levels are affected by local ground-water withdrawal, especially during summer peak demands.

PERIOD OF RECORD.--January 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.58 ft above land surface, March 30, 1990;
lowest measured, 32.49 ft below land surface, Sept. 25, 1996.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 1999	13.47	FEB 28, 2000	9.51	MAY 16, 2000	12.33	AUG 23, 2000	14.32
DEC 16	7.78	MAR 17	10.15	JUN 28	11.04	SEP 28	13.60
JAN 19, 2000	8.16	APR 13	10.87	JUL 28	14.82		
WATER YEAR 2000 HIGHEST 7.78 DEC 16, 1999		LOWEST 14.82 JUL 28, 2000					



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

WORCESTER COUNTY--Continued

WELL NUMBER.--WO De 36. SITE ID.--381457075174101. PERMIT NUMBER.--WO-73-0515.

LOCATION.--Lat 38°14'57", long 75°17'41", Hydrologic Unit 02060010, at Newark.

Owner: U.S. Geological Survey.

AQUIFER.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 330 ft; casing diameter 4 in., to 320 ft; screen diameter 2 in. from 320 to 330 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 30 ft above sea level, from topographic map.

Measuring point: Top of 4 in. coupling, 1.84 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well.

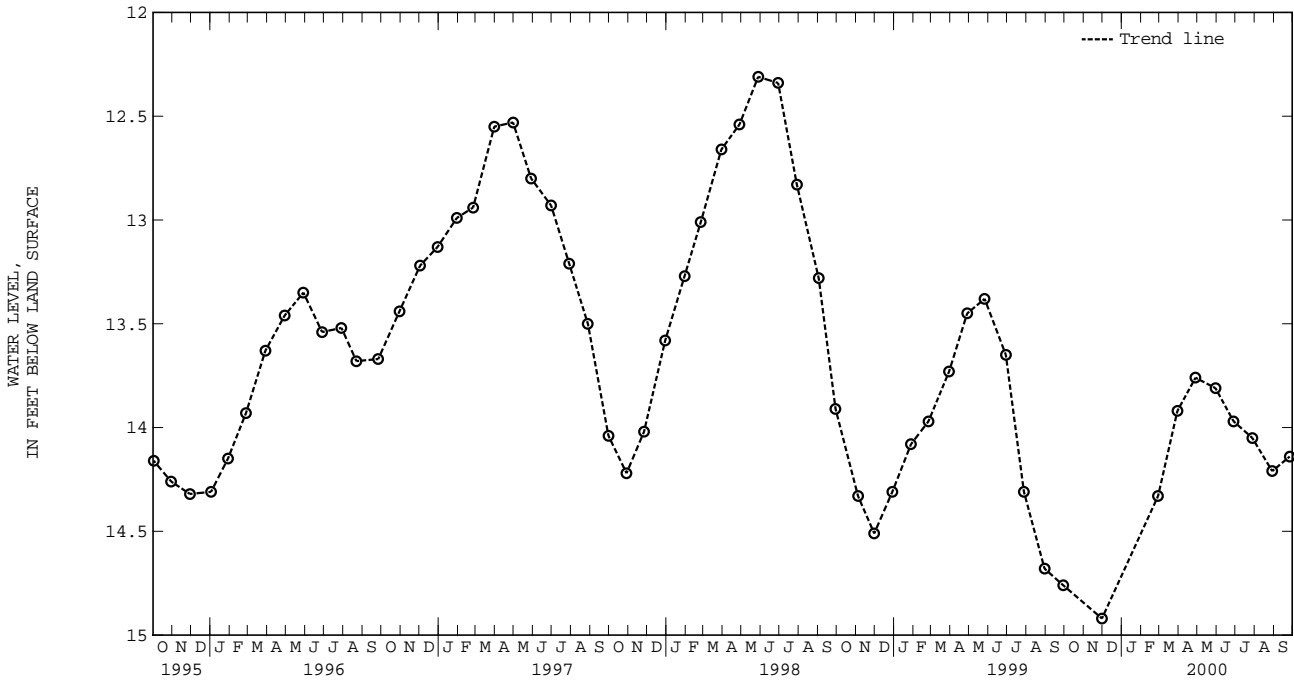
PERIOD OF RECORD.--September 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.62 ft below land surface, May 20, 1976, lowest measured, 15.00 ft below land surface, Sept. 11, 1975.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 30, 1999	14.92	APR 28, 2000	13.76	JUL 28, 2000	14.05
FEB 28, 2000	14.33	MAY 30	13.81	AUG 29	14.21
MAR 30	13.92	JUN 28	13.97	SEP 26	14.14

WATER YEAR 2000 HIGHEST 13.76 APR 28, 2000 LOWEST 14.92 NOV 30, 1999



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

WORCESTER COUNTY--Continued

WELL NUMBER.--WO Dg 21. SITE ID.--381427075081102. PERMIT NUMBER.--WO-73-0519.
 LOCATION.--Lat 38°14'27", long 75°08'11", Hydrologic Unit 020060010, at Assateague Island State Park.
 Owner: U.S. Geological Survey.

AQUIFER.--Manokin aquifer of Upper Miocene age. Aquifer code: 122MNKN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, depth 310 ft; casing diameter 4 in., to 300 ft; screen diameter 2 in. from 300 to 310 ft.

INSTRUMENTATION.--Monthly measurements with chalked steel tape by U.S. Geological Survey personnel, November 1990 to current year. Periodic measurements with chalked steel tape October 1975, to April 1985. Equipped with digital water-level recorder--60-minute recording interval, April 1985 to October 1990.

DATUM.--Elevation of land surface is 6 ft above sea level, from topographic map.

Measuring point: Top of metal sleeve, 4.06 ft above land surface.

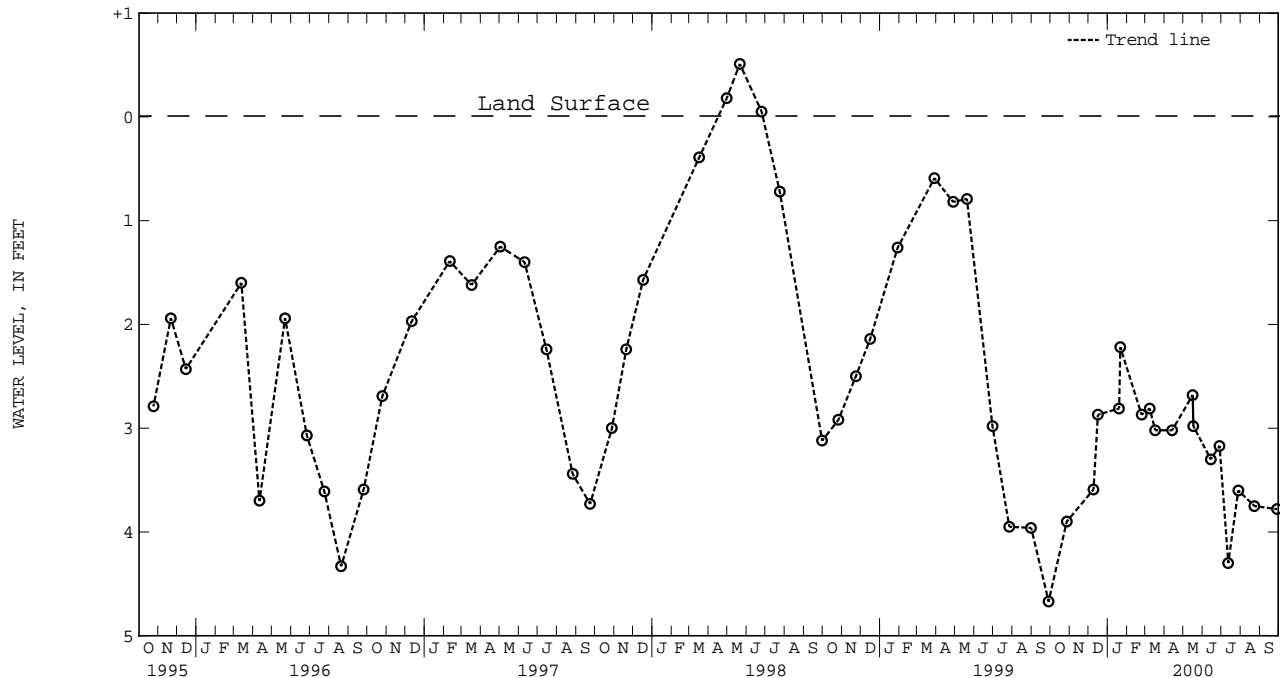
REMARKS.--Ocean City ground-water monitoring network well. Water levels are affected by local ground-water withdrawal.

PERIOD OF RECORD.--October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 1.37 ft above land surface, April 22, 1991; lowest recorded, 5.25 ft below land surface, Aug. 25, 1986.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 1999	3.90	FEB 24, 2000	2.87	MAY 17, 2000	2.98	AUG 23, 2000	3.75
DEC 09	3.59	MAR 08	2.81	JUN 14	3.30	SEP 28	3.78
16	2.87	17	3.02	28	3.17		
JAN 19, 2000	2.81	APR 13	3.02	JUL 12	4.30		
21	2.22	MAY 16	2.68	28	3.60		
WATER YEAR 2000	HIGHEST	2.22	JAN 21, 2000	LOWEST	4.30	JUL 12, 2000	



5 YEAR HYDROGRAPH
 OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER LEVELS IN MARYLAND--Continued

WORCESTER COUNTY--Continued

WELL NUMBER.--WO Fb 2. SITE ID.--380408075335701.

LOCATION.--Lat 38°04'08", long 75°33'57", Hydrologic Unit 02060009, near 7th and Young Sts., Pocomoke City.

Owner: Pocomoke City.

AQUIFER.--Pocomoke aquifer of Upper Miocene-Pliocene age. Aquifer code: 122PCMK.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, depth 130 ft; casing diameter 16 in., to 100 ft; casing diameter 10 in., to 100 ft; screen diameter 9.5 in. from 100 to 130 ft.

INSTRUMENTATION.--Monthly measurements with electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface is 15 ft above sea level, from topographic map.

Measuring point: Top of 1.5 in. casing extension, 3.30 ft above land surface.

REMARKS.--Maryland Water-Level Network observation well. Water level reported 30 ft below land surface, Oct. 3, 1947. Water levels are affected by local ground-water withdrawal. Well inaccessible between January 1997 and July 1997 due to construction equipment.

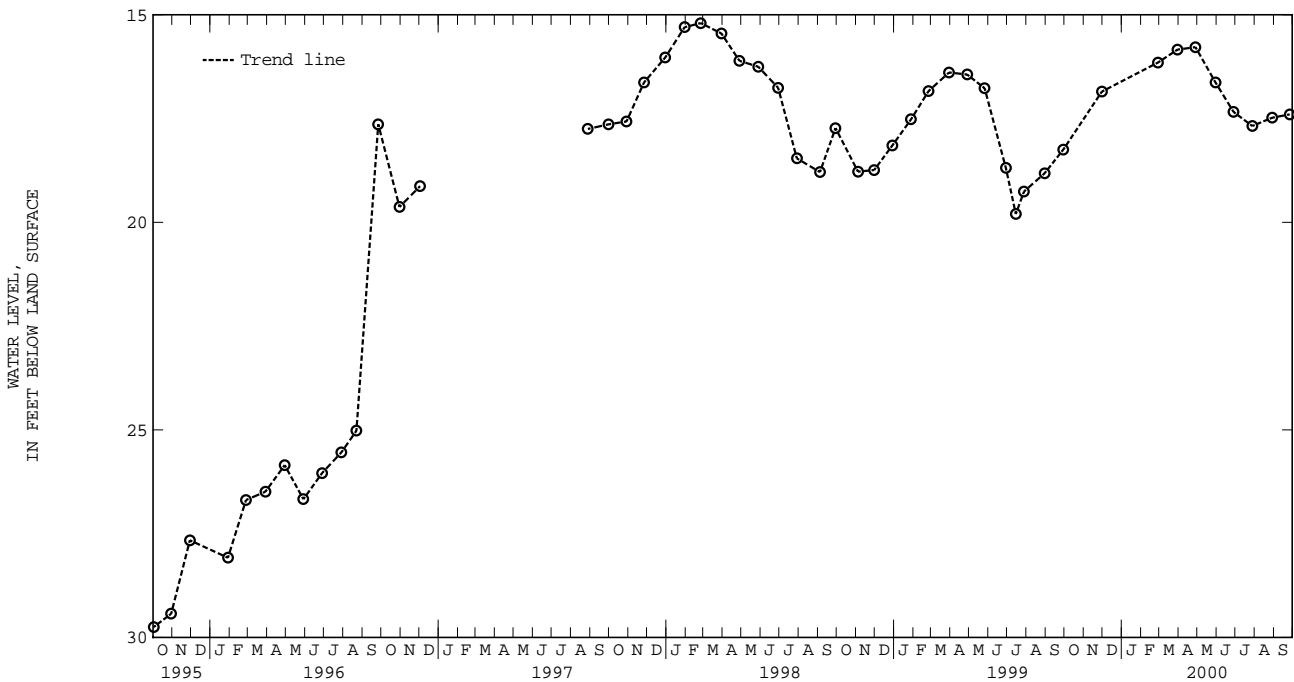
PERIOD OF RECORD.--January 1953 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.05 ft below land surface, Feb. 25, 1998; lowest measured, 49.70 ft below land surface, July 1, 1954.

WATER LEVELS, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 30, 1999	16.85	APR 28, 2000	15.78	JUL 28, 2000	17.68
FEB 28, 2000	16.15	MAY 30	16.63	AUG 29	17.48
MAR 30	15.84	JUN 28	17.34	SEP 26	17.40

WATER YEAR 2000 HIGHEST 15.78 APR 28, 2000 LOWEST 17.68 JUL 28, 2000



5 YEAR HYDROGRAPH
OCTOBER 1, 1995 THROUGH SEPTEMBER 30, 2000

GROUND-WATER QUALITY RECORDS

REMARK CODES

The following remark codes may appear with the water-quality data in this section:

<u>PRINTED OUTPUT</u>	<u>REMARK</u>
E	Estimated value.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
K	Results based on colony count outside the acceptance range (non-ideal colony count).
L	Biological organism count less than 0.5 percent (organism may be observed rather than counted).
D	Biological organism count equal to or greater than 15 percent (dominant).
&	Biological organism estimated as dominant.
V	Analyte was detected in both the environmental sample and the associated blank.

Dissolved Trace-Element Concentrations

NOTE--Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter (ug/L) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Data above the ug/L level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey began using new trace-element protocols in water year 1994. Full implementation of the protocols will take place during the 1995 water year.

Change in National Trends Network procedures

NOTE--Sample handling procedures at all national Trends Network stations were changed substantially on January 11, 1994, in order to reduce contamination from the sample shipping container. The data for samples before and after that date are different and not directly comparable. A tabular summary of the differences based on a special intercomparison study, is available from the NADP/NTN Coordination Office, Colorado State University, Fort Collins, CO 80523 (Telephone: 303-491-5643).

QUALITY OF GROUND WATER DATA

KENT COUNTY, DELAWARE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	TIME	STATION NUMBER	SAMPLE TYPE	GEO-LOGIC UNIT	SITE	SAM-PLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)
Ie42-03	08-29-00	0900	391060075282801	ENVIRONMENTAL	112CLMB	GW	8030	5.0
	08-29-00	0901		REPLICATE	112CLMB	GW	8030	5.0
	08-29-00	0905		BLANK			--	--
Le55-09	09-07-00	0900	385522075251802	ENVIRONMENTAL	112CLMB	GW	8030	10.0
Mdl1-04	08-23-00	1000	385448075341801	ENVIRONMENTAL	112CLMB	GW	8030	15.0
	08-23-00	1001		BLANK			--	--

DATE	DEPTH OF WELL, TOTAL (FEET) (72008)	DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT) (72016)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT) (72015)	PUMP OR FLOW PERIOD TO SAM-PLING (MIN) (72004)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)		
Ie42-03	08-29-00	70.00	64	49	30	773	54	4.7	6.9	214
	08-29-00	70.00	64	49	--	--	--	--	--	--
	08-29-00	--	--	--	--	--	--	--	--	--
Le55-09	09-07-00	91.00	91	71	30	779	5	.5	5.7	198
Mdl1-04	08-23-00	70.00	70	50	30	774	57	5.7	5.6	272
	08-23-00	--	--	--	--	--	--	--	--	--

DATE	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT DIS TOT IT (MG/L AS CACO3) (39086)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	
Ie42-03	08-29-00	--	23.4	66	14.3	7.41	3.8	9.0	8	9
	08-29-00	--	--	63	13.6	7.03	3.7	8.6	--	--
	08-29-00	--	--	--	E.01	<.01	<.2	<.1	--	--
Le55-09	09-07-00	22.0	16.3	51	13.3	4.43	2.7	12.0	16	19
Mdl1-04	08-23-00	26.0	16.0	70	19.2	5.45	1.8	17.2	13	16
	08-23-00	--	--	--	--	--	--	--	--	--

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL SOLVED (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	
Ie42-03	08-29-00	17.9	<.1	18.5	24.0	E.10	<.10	<.020	8.14	<.010
	08-29-00	17.8	<.1	17.5	23.8	E.10	<.10	.025	8.17	<.010
	08-29-00	<.3	<.1	<.1	<.3	<.10	<.10	<.020	<.050	<.010
Le55-09	09-07-00	27.1	<.1	20.0	41.9	E.10	E.10	.078	<.050	<.010
Mdl1-04	08-23-00	26.5	<.1	25.2	20.0	E.10	E.10	<.020	11.3	<.010
	08-23-00	--	--	--	--	--	--	--	--	--

Geologic Unit (aquifer): 112CLMB - Columbia Formation

Site Type: GW - Groundwater

Sampling Method: 8030 - Grab sample at water-supply tap

E Estimated value.

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

KENT COUNTY, DELAWARE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	PHOS- PHATE, ORTHO, DIS- SOLVED AS PO4 (00660)	PHOS- PHORUS DIS- SOLVED AS P (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED AS P (00671)	PHOS- PHORUS TOTAL AS P (00665)	SOLIDS, RESIDUE AT 180 DEG. C SOLVED (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (70301)	BROMIDE DIS- SOLVED AS BR (71870)	IRON, DIS- SOLVED AS FE (01046)	MANGA- NESE, DIS- SOLVED AS MN (01056)
		Ie42-03	08-29-00	.077	.024	.025	.024	139	136	.05
	08-29-00	.071	.024	.023	.024	136	--	.05	<10	12
	08-29-00	.040	.011	.013	<.008	<10	--	<.01	<10	<2
Le55-09	09-07-00	.107	.053	.035	.057	144	139	.09	7420	242
Md11-04	08-23-00	--	.008	<.010	.009	204	173	.08	E10	7
	08-23-00	--	--	--	--	--	--	--	--	--
		2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (82660)	ACETO- CHLOR, WATER, FLTRD REC (49260)	ALA- CHLOR, WATER, DISS, REC, (46342)	ALPHA BHC DIS- SOLVED (34253)	ATRA- ZINE, WATER, DISS, REC (39632)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (82673)	BUTYL- ATE, WATER, DISS, REC (04028)	CAR- BARYL WATER, FLTRD 0.7 U GF, REC (82680)	CARBO- FURAN WATER, FLTRD 0.7 U GF, REC (82674)
Ie42-03	08-29-00	<.003	<.002	<.002	<.002	.024	<.002	<.002	<.003	<.003
	08-29-00	<.003	<.002	<.002	<.002	.023	<.002	<.002	<.003	<.003
	08-29-00	<.003	<.002	<.002	<.002	<.001	<.002	<.002	<.003	<.003
Le55-09	09-07-00	<.003	<.002	<.002	<.002	<.001	<.002	<.002	<.003	E.005
Md11-04	08-23-00	<.003	<.002	<.002	<.002	<.001	<.002	<.002	<.003	<.003
	08-23-00	--	--	--	--	--	--	--	--	--
		CHLOR- PYRIFOS DIS- SOLVED (38933)	CYANA- ZINE, WATER, DISS, REC (04041)	DCPA WATER, FLTRD 0.7 U GF, REC (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (04040)	DIAZ- INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT (91063)	DI- AZINON, DIS- SOLVED (39572)	DI- ELDRIN DIS- SOLVED (39381)	DISUL- FOTON WATER, FLTRD 0.7 U GF, REC (82677)	EPTC WATER, FLTRD 0.7 U GF, REC (82668)
Ie42-03	08-29-00	<.004	<.004	<.002	E.079	113	<.002	<.001	<.017	<.002
	08-29-00	<.004	<.004	<.002	E.069	104	<.002	<.001	<.017	<.002
	08-29-00	<.004	<.004	<.002	<.002	104	<.002	<.001	<.017	<.002
Le55-09	09-07-00	<.004	<.004	<.002	<.002	100	<.002	<.001	<.017	<.002
Md11-04	08-23-00	<.004	<.004	<.002	E.043	108	<.002	<.001	<.017	<.002
	08-23-00	--	--	--	--	--	--	--	--	--
		ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (82672)	FONOFOS WATER DISS REC (04095)	GLYPHO- SATE, WATER, UNFLTRD REC (39941)	HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC PERCENT (91065)	LIN- URON WATER FLTRD DIS- 0.7 U SOLVED (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (82666)	MALA- THION, DIS- SOLVED (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (82686)
Ie42-03	08-29-00	<.004	<.003	<.003	<5	109	<.004	<.002	<.005	<.001
	08-29-00	<.004	<.003	<.003	<5	104	<.004	<.002	<.005	<.001
	08-29-00	<.004	<.003	<.003	<5	106	<.004	<.002	<.005	<.001
Le55-09	09-07-00	<.004	<.003	<.003	<5	96	<.004	<.002	<.005	<.001
Md11-04	08-23-00	<.004	<.003	<.003	<5	108	<.004	<.002	<.005	<.001
	08-23-00	--	--	--	--	--	--	--	--	--

E Estimated value.

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

KENT COUNTY, DELAWARE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	METHYL-PARA-THION	METRI-BUZIN	MOL-INATE	NAPROP-AMIDE	P,P'DDE	PEB-ULATE	PENDI-METH-ALIN		
		WAT FLT 0.7 U	METO-LACHLOR WATER	SENCOR WATER	FLTRD 0.7 U		FLTRD 0.7 U	PARA-THION, DIS-	FILTRD 0.7 U	WAT FLT 0.7 U
		GF, REC (82667)	DISSOLV (UG/L) (39415)	DISSOLV (UG/L) (82630)	GF, REC (UG/L) (82671)	GF, REC (UG/L) (82684)	DISSOLV (UG/L) (34653)	SOLVED (UG/L) (39542)	GF, REC (82669)	GF, REC (82683)
Ie42-03	08-29-00	<.006	.014	<.004	<.004	<.003	<.006	<.004	<.004	<.004
	08-29-00	<.006	.013	<.004	<.004	<.003	<.006	<.004	<.004	<.004
	08-29-00	<.006	.012	<.004	<.004	<.003	<.006	<.004	<.004	<.004
Le55-09	09-07-00	<.006	E.002	<.004	<.004	<.003	<.006	<.004	<.004	<.004
Md11-04	08-23-00	<.006	.005	<.004	<.004	<.003	<.006	<.004	<.004	<.004
	08-23-00	--	--	--	--	--	--	--	--	--
	DATE	PER-METHRIN CIS WAT FLT 0.7 U	PHORATE WATER FLTRD 0.7 U	PRO-METON, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U	PROPA-CHLOR, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U	PRO-PARGITE WATER FLTRD 0.7 U	SI-MAZINE, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U
Ie42-03	08-29-00	<.005	<.002	<.018	<.003	<.007	<.004	<.013	<.005	<.010
	08-29-00	<.005	<.002	<.018	<.003	<.007	<.004	<.013	<.005	<.010
	08-29-00	<.005	<.002	<.018	<.003	<.007	<.004	<.013	<.005	<.010
Le55-09	09-07-00	<.005	<.002	E.003	<.003	<.007	<.004	<.013	<.005	<.010
Md11-04	08-23-00	<.005	<.002	<.018	<.003	<.007	<.004	<.013	<.005	<.010
	08-23-00	--	--	--	--	--	--	--	--	--
	DATE	TER-BACIL WATER FLTRD 0.7 U	TER-BUFOS WATER FLTRD 0.7 U	THIO-BENCARB WATER FLTRD 0.7 U	TRIAL-LATE WATER FLTRD 0.7 U	TRI-FLUR-ALIN WAT FLT 0.7 U	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1,2-TRI-CHLORO-ETHANE TOTAL (UG/L) (34511)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)
Ie42-03	08-29-00	<.007	<.013	<.002	<.001	<.002	<.03	<.06	<.07	<.04
	08-29-00	<.007	<.013	<.002	<.001	<.002	<.03	<.06	<.07	<.04
	08-29-00	<.007	<.013	<.002	<.001	<.002	<.03	<.06	<.07	<.04
Le55-09	09-07-00	<.007	<.013	<.002	<.001	<.002	<.03	<.06	E.02	<.04
Md11-04	08-23-00	<.007	<.013	<.002	<.001	<.002	<.03	<.06	<.07	<.04
	08-23-00	--	--	--	--	--	<.03	<.06	<.07	<.04
	DATE	1,1-DI-CHLORO-PRO-PENE, WAT, WH TOTAL (UG/L) (77168)	123-TRI-CHLORO-PROPANE WATER WHOLE TOTAL (UG/L) (77443)	1,2-DIBROMO ETHANE WATER WHOLE TOTAL (UG/L) (77651)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	2,2-DI-CHLORO-PRO-PANE WAT, WH TOTAL (UG/L) (77170)	2BUTENE TRANS-1 4-DI-CHLORO UNFLTRD RECOVER (UG/L) (73547)	2-HEXA-NONE WATER WHOLE TOTAL (UG/L) (77103)
Ie42-03	08-29-00	<.03	<.2	<.04	<.1	<.07	<.03	<.05	<.7	<.7
	08-29-00	<.03	<.2	<.04	<.1	<.07	<.03	<.05	<.7	<.7
	08-29-00	<.03	<.2	<.04	<.1	<.07	<.03	<.05	<.7	<.7
Le55-09	09-07-00	<.03	<.2	<.04	<.1	<.07	<.03	<.05	<.7	<.7
Md11-04	08-23-00	<.03	<.2	<.04	<.1	<.07	<.03	<.05	<.7	<.7
	08-23-00	<.03	<.2	<.04	<.1	<.07	<.03	<.05	<.7	<.7

E Estimated value.
 < Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

KENT COUNTY, DELAWARE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	ACETONE WATER WHOLE	ACRYLO-NITRILE	1,2,3-TRI-CHLORO BENZENE WAT, WH	BENZENE METHYL-UNFLTRD	BENZENE 1,2,4-TRI-CHLORO-WAT UNF	BENZENE 124-TRI METHYL UNFILT	BENZENE 135-TRI METHYL UNFLTRD	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD	BENZENE 14BRFL-SURROG VOC REC
		(UG/L) (81552)	(UG/L) (34215)	(UG/L) (77613)	(UG/L) (77221)	(UG/L) (34551)	(UG/L) (77222)	(UG/L) (77226)	(UG/L) (34566)	PERCENT (99834)
Ie42-03	08-29-00	<7	<1	<.3	<.1	<.2	<.06	<.04	<.05	106
	08-29-00	<7	<1	<.3	<.1	<.2	<.06	<.04	<.05	105
	08-29-00	<7	<1	<.3	<.1	<.2	<.06	<.04	<.05	103
Le55-09	09-07-00	<7	<1	<.3	<.1	<.2	<.06	<.04	<.05	137
Md11-04	08-23-00	<7	<1	<.3	<.1	<.2	<.06	<.04	<.05	101
	08-23-00	<7	<1	<.3	<.1	<.2	<.06	<.04	<.05	108

WELL NUMBER	DATE	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD	ISO-PROPYL-BENZENE WATER WHOLE	BENZENE N-BUTYL UNFLTRD	BENZENE N-PROPY WATER UNFLTRD	BENZENE O-DI-CHLORO-WATER UNFLTRD	BENZENE SEC BUTYL-WATER UNFLTRD	BENZENE TERT-BUTYL-WATER UNFLTRD	BENZENE TOTAL	BROMO-BENZENE, WATER, WHOLE, TOTAL
		(UG/L) (34571)	(UG/L) (77223)	(UG/L) (77342)	(UG/L) (77224)	(UG/L) (34536)	(UG/L) (77350)	(UG/L) (77353)	(UG/L) (34030)	(UG/L) (81555)
Ie42-03	08-29-00	<.05	<.03	<.2	<.04	<.05	<.03	<.06	<.04	<.04
	08-29-00	<.05	<.03	<.2	<.04	<.05	<.03	<.06	<.04	<.04
	08-29-00	E.02	<.03	<.2	<.04	<.05	<.03	<.06	<.04	<.04
Le55-09	09-07-00	<.05	<.03	<.2	<.04	<.05	<.03	<.06	.29	<.04
Md11-04	08-23-00	<.05	<.03	<.2	<.04	<.05	<.03	<.06	<.04	<.04
	08-23-00	<.05	<.03	<.2	<.04	<.05	<.03	<.06	<.04	<.04

WELL NUMBER	DATE	BROMO-ETHENE WATER UNFLTRD	BROMO-FORM TOTAL	CARBON DI-SULFIDE WATER WHOLE	CARBON CHLO-RIDE TOTAL	CHLORO-BENZENE TOTAL	CHLORO-METHANE TOTAL	CHLORO-ETHANE TOTAL	CHLORO-FORM TOTAL	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL
		(UG/L) (50002)	(UG/L) (32104)	(UG/L) (77041)	(UG/L) (32102)	(UG/L) (34301)	(UG/L) (32105)	(UG/L) (34311)	(UG/L) (32106)	(UG/L) (77093)
Ie42-03	08-29-00	<.1	<.06	<.07	<.06	<.03	<.2	<.1	E.02	<.04
	08-29-00	<.1	<.06	<.07	<.06	<.03	<.2	<.1	E.02	<.04
	08-29-00	<.1	<.06	E.03	<.06	<.03	<.2	<.1	<.05	<.04
Le55-09	09-07-00	<.1	<.06	<.07	<.06	<.03	<.2	<.1	E.01	<.04
Md11-04	08-23-00	<.1	<.06	<.07	<.06	<.03	<.2	<.1	E.05	<.04
	08-23-00	<.1	<.06	<.07	<.06	<.03	<.2	<.1	<.05	<.04

WELL NUMBER	DATE	CIS 1,3-DI-CHLORO-PROPENE TOTAL	DIBROMO-CHLORO-PROPANE WATER WHOLE	DI-BROMO-METHANE WATER WHOLE	BROMO-CHLORO-METHANE TOTAL	DI-CHLORO-FLUORO-METHANE TOTAL	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD	ETHANE, 1112-TETRA-CHLORO-WAT UNF	ETHANE, 1,1,2,2-TETRA-CHLORO-WAT UNF
		(UG/L) (34704)	(UG/L) (82625)	(UG/L) (30217)	(UG/L) (32101)	(UG/L) (34668)	(UG/L) (81577)	(UG/L) (77562)	(UG/L) (34516)
Ie42-03	08-29-00	<.09	<.2	<.05	<.05	<.3	<.1	<.03	<.09
	08-29-00	<.09	<.2	<.05	<.05	<.3	<.1	<.03	<.09
	08-29-00	<.09	<.2	<.05	<.05	<.3	<.1	<.03	<.09
Le55-09	09-07-00	<.09	<.2	<.05	<.05	<.3	<.1	<.03	<.09
Md11-04	08-23-00	<.09	<.2	<.05	<.05	<.3	<.1	<.03	<.09
	08-23-00	<.09	<.2	<.05	<.05	<.3	<.1	<.03	<.09

E Estimated value.
 < Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

KENT COUNTY, DELAWARE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	ETHANE	ETHANE	ETHER	ETHER	ETHER		FREON-	FURAN,
		12DICL SURROG VOC UNFLTRD REC PERCENT (99832)	HEXA- CHLORO- WATER UNFLTRD RECOVER (34396)	ETHER ETHYL WATER UNFLTRD RECOVER (81576)	ETHER TERT- BUTYL ETHYL UNFLTRD RECOVER (50004)	ETHER TERT- PENTYL METHYL UNFLTRD RECOVER (50005)	ETHYL- BENZENE TOTAL (34371)	113 WATER UNFLTRD REC (77652)	TETRA- HYDRO- WATER UNFLTRD RECOVER (81607)
Ie42-03	08-29-00	105	<.2	<.2	<.05	<.1	<.03	E.02	<2
	08-29-00	106	<.2	<.2	<.05	<.1	<.03	E.02	<2
	08-29-00	103	<.2	<.2	<.05	<.1	<.03	E.03	<2
Le55-09	09-07-00	103	<.2	<.2	<.05	<.1	<.03	<.06	<2
Md11-04	08-23-00	108	<.2	<.2	<.05	<.1	<.03	<.06	<2
	08-23-00	98	<.2	<.2	<.05	<.1	<.03	<.06	<2
		HEXA- CHLORO- BUT- ADIENE TOTAL (39702)	ISO- DURENE WATER UNFLTRD RECOVER (50000)	METHAC- RYLATE ETHYL- WATER UNFLTRD RECOVER (73570)	METHAC- RYLATE METHYL WATER UNFLTRD RECOVER (81597)	METH- ACRYLO- NITRITE WATER UNFLTRD RECOVER (81593)	METHANE BROMO CHLORO- WAT UNFLTRD REC (77297)	METHYL ACRY- LATE WATER UNFLTRD RECOVER (49991)	METHYL IODIDE WATER UNFLTRD RECOVER (77424)
Ie42-03	08-29-00	<.1	<.2	<.2	<.3	<.6	<.04	<1	<.1
	08-29-00	<.1	<.2	<.2	<.3	<.6	<.04	<1	<.1
	08-29-00	<.1	<.2	<.2	<.3	<.6	<.04	<1	<.1
Le55-09	09-07-00	<.1	<.2	<.2	<.3	<.6	<.04	<1	<.1
Md11-04	08-23-00	<.1	<.2	<.2	<.3	<.6	<.04	<1	<.1
	08-23-00	<.1	<.2	<.2	<.3	<.6	<.04	<1	<.1
		METHYL TERT- BUTYL ETHER WAT UNF REC (78032)	METHYL- BROMIDE TOTAL (34413)	METHYL- CHLO- RIDE TOTAL (34418)	METHYL ENE CHLO- RIDE TOTAL (34423)	METHYL- ETHYL- KETONE WATER WHOLE TOTAL (81595)	METHYL ISO- BUTYL KETONE WAT. WH. TOTAL (78133)	META/ PARA- XYLENE WATER UNFLTRD REC (85795)	NAPHTH- ALENE TOTAL (34696)
Ie42-03	08-29-00	<.2	<.3	M	<.4	<2	<.4	<.06	<.2
	08-29-00	<.2	<.3	M	<.4	<2	<.4	<.06	<.2
	08-29-00	<.2	<.3	M	.6	<2	<.4	<.06	<.2
Le55-09	09-07-00	.7	<.3	<.5	<.4	<2	<.4	<.06	<.2
Md11-04	08-23-00	.4	<.3	E.1	<.4	<2	<.4	<.06	<.2
	08-23-00	<.2	<.3	M	<.4	<2	<.4	<.06	<.2
		O- CHLORO- TOLUENE WATER WHOLE TOTAL (77275)	O- XYLENE WATER WHOLE TOTAL (77135)	P-ISO- PROPYL- TOLUENE WATER WHOLE UNFLTRD REC (77356)	1234- TETRA METHYL BENZENE UNFLTRD REC (49999)	1,3-DI- CHLORO- PROPANE WAT. WH TOTAL (77173)	PROPENE 3- CHLORO- WATER UNFLTRD RECOVER (78109)	STYRENE TOTAL (77128)	TETRA- CHLORO- ETHYL- ENE TOTAL (34475)
Ie42-03	08-29-00	<.04	<.04	<.07	<.2	<.1	<.2	<.04	M
	08-29-00	<.04	<.04	<.07	<.2	<.1	<.2	<.04	M
	08-29-00	<.04	<.04	<.07	<.2	<.1	<.2	<.04	M
Le55-09	09-07-00	<.04	<.04	<.07	<.2	<.1	<.2	<.04	1.9
Md11-04	08-23-00	<.04	<.04	<.07	<.2	<.1	<.2	<.04	M
	08-23-00	<.04	<.04	<.07	<.2	<.1	<.2	<.04	<.1

E Estimated value.
 < Actual value is known to be less than the value shown.
 M Presence of material verified but not quantified.

QUALITY OF GROUND WATER DATA

KENT COUNTY, DELAWARE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	TOLUENE			TOLUENE TOTAL (UG/L) (34010)	TRANS- 1,3-DI- CHLORO- PROPENE TOTAL (UG/L) (34699)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L) (39180)	TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L) (34488)	VINYL CHLO- RIDE TOTAL (UG/L) (39175)
		D8 SURROG VOC UNFLTRD REC PERCENT (99833)	TOLUENE O-ETHYL WATER UNFLTRD RECOVER (UG/L) (77220)	TOLUENE P-CHLOR WATER UNFLTRD REC (UG/L) (77277)					
Ie42-03	08-29-00	103	<.06	<.06	E.01	<.09	<.04	<.09	<.1
	08-29-00	104	<.06	<.06	<.05	<.09	<.04	<.09	<.1
	08-29-00	101	<.06	<.06	E.01	<.09	<.04	<.09	<.1
Le55-09	09-07-00	108	<.06	<.06	<.05	<.09	.22	<.09	<.1
Md11-04	08-23-00	99	<.06	<.06	<.05	<.09	<.04	<.09	<.1
	08-23-00	100	<.06	<.06	<.05	<.09	<.04	<.09	<.1

E Estimated value.

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

NEWCASTLE COUNTY, DELAWARE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	TIME	STATION NUMBER	GEO-LOGIC UNIT	SITE	SAM-PLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	DEPTH TO BOTTOM OF SAMPLE INTER-VAL (FT) (72016)
Db11-27	08-07-00	1000	393928075440202	217PTMC	GW	8030	20.0	66.00	62
	09-27-00	1109		217PTMC	GW	8030	20.0	66.00	62
Db11-28	08-07-00	1500	393916075440802	112CLMB	GW	8030	20.0	62.00	62
	09-27-00	1005		112CLMB	GW	8030	20.0	62.00	62
Db11-48	08-09-00	1000	393852075430901	112CLMB	GW	8030	20.0	59.00	59
Dc31-15	08-08-00	1000	393739075394202	112CLMB	GW	8030	20.0	76.00	76
	09-27-00	1312		112CLMB	GW	8030	20.0	76.00	76
Dd52-15	08-08-00	1400	394060075334601	112CLMB	GW	8030	15.0	74.00	74
	09-27-00	1448		112CLMB	GW	8030	15.0	74.00	74

DATE	DEPTH TO TOP OF SAMPLE INTER-VAL (FT) (72015)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	FLOW RATE (G/M) (00059)	BARO-METRIC PRES-SURE (MM HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00020)	TEMPER-ATURE AIR (DEG C) (00020)
Db11-27	08-07-00	41	35	--	768	68	6.7	5.4	289
	09-27-00	41	25	--	766	62	6.3	5.3	293
Db11-28	08-07-00	31	40	--	768	45	4.4	5.3	245
	09-27-00	31	30	--	766	34	3.3	5.4	228
Db11-48	08-09-00	44	45	--	759	40	4.0	5.3	330
Dc31-15	08-08-00	52	30	330	769	75	7.8	5.5	267
	09-27-00	52	30	--	766	65	6.7	5.3	262
Dd52-15	08-08-00	58	45	--	769	44	4.4	5.6	265
	09-27-00	58	35	--	766	67	6.8	5.6	264

DATE	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY TOT IT (MG/L AS CACO3) (39086)	BICAR-BONATE DIS IT (MG/L AS HCO3) (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
Db11-27	08-07-00	16.0	99	19.2	12.4	2.4	9.1	18	22
	09-27-00	14.8	--	--	--	--	--	--	--
Db11-28	08-07-00	16.3	74	14.8	9.04	2.8	11.2	17	21
	09-27-00	16.0	--	--	--	--	--	--	--
Db11-48	08-09-00	15.5	69	14.3	8.15	3.1	26.3	15	18
Dc31-15	08-08-00	14.0	72	14.6	8.71	2.8	16.3	18	21
	09-27-00	14.2	--	--	--	--	--	--	--
Dd52-15	08-08-00	15.2	80	16.1	9.65	3.5	12.7	14	17
	09-27-00	15.2	--	--	--	--	--	--	--

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL SOLVED (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)
Db11-27	08-07-00	<.1	13.5	28.4	<.10	<.10	<.020	8.36	<.010
	09-27-00	--	--	--	--	--	--	--	--
Db11-28	08-07-00	<.1	13.6	20.3	<.10	E.10	<.020	5.23	<.010
	09-27-00	--	--	--	--	--	--	--	--
Db11-48	08-09-00	<.1	12.7	15.9	.56	.61	.483	3.72	<.010
Dc31-15	08-08-00	<.1	14.1	24.0	<.10	<.10	<.020	5.56	<.010
	09-27-00	--	--	--	--	--	--	--	--
Dd52-15	08-08-00	<.1	16.9	39.2	<.10	<.10	<.020	4.40	<.010
	09-27-00	--	--	--	--	--	--	--	--

Geologic Unit (aquifer): 112CLMB - Columbia Formation
217PTMC - Potomac Group

Site Type: GW - Ground Water

Sampling Method: 8030 - Grab sample at water-supply tap

E Estimated value.
< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

NEWCASTLE COUNTY, DELAWARE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBERS	DATE	NITRO- GEN, TOTAL (MG/L AS N) (00600)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	SOLIDS, RESIDUE AT 180 DEG. C SOLVED (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (70301)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
		Db11-27	08-07-00	--	--	<.006	<.010	<.008	176	164
	09-27-00	--	--	--	--	--	--	--	--	--
Db11-28	08-07-00	--	--	<.006	<.010	<.008	153	137	.06	30
	09-27-00	--	--	--	--	--	--	--	--	--
Db11-48	08-09-00	4.3	4.3	<.006	<.010	<.008	200	173	.06	<10
Dc31-15	08-08-00	--	--	<.006	<.010	<.008	168	151	.05	<10
	09-27-00	--	--	--	--	--	--	--	--	--
Dd52-15	08-08-00	--	--	<.006	<.010	<.008	156	154	.05	10
	09-27-00	--	--	--	--	--	--	--	--	--

WELL NUMBERS	DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)
		Db11-27	08-07-00	3	<.003	<.002	.005	<.002	.393	<.002
	09-27-00	--	--	--	--	--	--	--	--	--
Db11-28	08-07-00	327	<.003	<.002	<.002	<.002	.224	<.002	<.002	<.003
	09-27-00	--	--	--	--	--	--	--	--	--
Db11-48	08-09-00	316	<.003	<.002	<.002	<.002	.067	<.002	<.002	<.003
Dc31-15	08-08-00	3	<.003	<.002	<.002	<.002	.122	<.002	<.002	<.003
	09-27-00	--	--	--	--	--	--	--	--	--
Dd52-15	08-08-00	11	<.003	<.002	<.002	<.002	.021	<.002	<.002	<.003
	09-27-00	--	--	--	--	--	--	--	--	--

WELL NUMBERS	DATE	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DIAZ- INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT (91063)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)
		Db11-27	08-07-00	<.003	<.004	<.004	<.002	E.46	120	<.002
	09-27-00	--	--	--	--	--	--	--	--	--
Db11-28	08-07-00	<.003	<.004	<.004	<.002	E.099	119	<.002	.065	<.017
	09-27-00	--	--	--	--	--	--	--	--	--
Db11-48	08-09-00	<.003	<.004	<.004	<.002	E.035	116	<.002	.019	<.017
Dc31-15	08-08-00	<.003	<.004	<.004	<.002	E.14	114	<.002	.026	<.017
	09-27-00	--	--	--	--	--	--	--	--	--
Dd52-15	08-08-00	<.003	<.004	<.004	<.002	E.008	112	<.002	.106	<.017
	09-27-00	--	--	--	--	--	--	--	--	--

WELL NUMBERS	DATE	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	GLYPHO- SATE, WATER, UNFLTRD REC (UG/L) (39941)	HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC PERCENT (91065)	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THON, DIS- SOLVED (UG/L) (39532)
		Db11-27	08-07-00	.018	<.004	<.003	<.003	<5	90	.009
	09-27-00	--	--	--	--	--	--	--	--	--
Db11-28	08-07-00	<.002	<.004	<.003	<.003	<5	86	<.004	<.002	<.005
	09-27-00	--	--	--	--	--	--	--	--	--
Db11-48	08-09-00	<.002	<.004	<.003	<.003	<5	89	<.004	<.002	<.005
Dc31-15	08-08-00	<.002	<.004	<.003	<.003	<5	83	<.004	<.002	<.005
	09-27-00	--	--	--	--	--	--	--	--	--
Dd52-15	08-08-00	<.002	<.004	<.003	<.003	<5	92	<.004	<.002	<.005
	09-27-00	--	--	--	--	--	--	--	--	--

E Estimated value.

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

NEWCASTLE COUNTY, DELAWARE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	METHYL AZIN-PHOS	METHYL PARA-THION	METO-LACHLOR WATER	METRI-SENCOR WATER	MOL-INATE WATER	NAPROP-AMIDE WATER	P,P' DDE	PARA-THION, DIS-SOLVED	PEB-ULATE WATER
		WAT FLT 0.7 U GF, REC (82686)	WAT FLT 0.7 U GF, REC (82667)	DISSOLV (UG/L) (39415)	DISSOLV (UG/L) (82630)	FLTRD 0.7 U (UG/L) (82671)	FLTRD 0.7 U (UG/L) (82684)	FLTRD 0.7 U (UG/L) (34653)	FLTRD 0.7 U (UG/L) (39542)	FILTRD 0.7 U GF, REC (82669)
Db11-27	08-07-00	<.001	<.006	.182	<.004	<.004	<.003	<.006	<.004	.004
	09-27-00	--	--	--	--	--	--	--	--	--
Db11-28	08-07-00	<.001	<.006	.011	<.004	<.004	<.003	<.006	<.004	<.004
	09-27-00	--	--	--	--	--	--	--	--	--
Db11-48	08-09-00	<.001	<.006	.064	<.004	<.004	<.003	<.006	<.004	<.004
Dc31-15	08-08-00	<.001	<.006	.015	<.004	<.004	<.003	<.006	<.004	<.004
	09-27-00	--	--	--	--	--	--	--	--	--
Dd52-15	08-08-00	<.001	<.006	.006	<.004	<.004	<.003	<.006	<.004	<.004
	09-27-00	--	--	--	--	--	--	--	--	--
WELL NUMBER	DATE	PENDI-METH-ALIN	PER-METHRIN CIS	PHORATE WATER	PRO-METON, DISS, REC	PRON-AMIDE WATER	PROPA-CHLOR, DISS, REC	PRO-PANIL WATER	PRO-PARGITE WATER	SI-MAZINE, WATER, REC
		WAT FLT 0.7 U GF, REC (82683)	WAT FLT 0.7 U GF, REC (82687)	FLTRD 0.7 U (UG/L) (82664)	WATER, (UG/L) (04037)	FLTRD 0.7 U (UG/L) (82676)	WATER, (UG/L) (04024)	FLTRD 0.7 U (UG/L) (82679)	FLTRD 0.7 U (UG/L) (82685)	FLTRD 0.7 U (UG/L) (04035)
Db11-27	08-07-00	<.004	<.005	<.002	E.007	<.003	<.007	<.004	<.013	.019
	09-27-00	--	--	--	--	--	--	--	--	--
Db11-28	08-07-00	<.004	<.005	<.002	.057	<.003	<.007	<.004	<.013	.013
	09-27-00	--	--	--	--	--	--	--	--	--
Db11-48	08-09-00	<.004	<.005	<.002	.082	<.003	<.007	<.004	<.013	.015
Dc31-15	08-08-00	<.004	<.005	<.002	<.018	<.003	<.007	<.004	<.013	.019
	09-27-00	--	--	--	--	--	--	--	--	--
Dd52-15	08-08-00	<.004	<.005	<.002	<.018	<.003	<.007	<.004	<.013	.014
	09-27-00	--	--	--	--	--	--	--	--	--
WELL NUMBER	DATE	TEBU-THIURON WATER	TER-BACIL WATER	TER-BUFOS WATER	THIO-BENCARB WATER	TRIAL-LATE WATER	TRI-FLUR-ALIN	1,1,1-TRI-CHLORO-ETHANE	1,1,2-TRI-CHLORO-ETHANE	1,1-DI-CHLORO-ETHANE
		FLTRD 0.7 U (UG/L) (82670)	FLTRD 0.7 U (UG/L) (82665)	FLTRD 0.7 U (UG/L) (82675)	FLTRD 0.7 U (UG/L) (82681)	FLTRD 0.7 U (UG/L) (82678)	FLTRD 0.7 U (UG/L) (82661)	WAT FLT 0.7 U (UG/L) (34506)	TOTAL (UG/L) (34511)	TOTAL (UG/L) (34511)
Db11-27	08-07-00	.027	<.007	<.013	<.002	<.001	<.002	E.02	<.06	<.07
	09-27-00	--	--	--	--	--	--	--	--	--
Db11-28	08-07-00	.039	<.007	<.013	<.002	<.001	<.002	E.04	<.06	<.07
	09-27-00	--	--	--	--	--	--	--	--	--
Db11-48	08-09-00	.080	<.007	<.013	<.002	<.001	<.002	.69	<.06	.22
Dc31-15	08-08-00	.023	<.007	<.013	<.002	<.001	<.002	E.04	<.06	<.07
	09-27-00	--	--	--	--	--	--	--	--	--
Dd52-15	08-08-00	.026	<.007	<.013	<.002	<.001	<.002	.11	<.06	<.07
	09-27-00	--	--	--	--	--	--	--	--	--
WELL NUMBER	DATE	1,1-DI-CHLORO-ETHYL-ENE	1,1-DI-CHLORO-PRO-PENE, WAT, WH	123-TRI-CHLORO-PROPANE	1,2-DIBROMO ETHANE	1,2-DI-CHLORO-ETHANE	1,2-DI-CHLORO-PROPANE	TRANS-1,2-DI-CHLORO-ETHENE	2,2-DI-CHLORO-PRO-PANE	2BUTENE TRANS-1 4-DI-CHLORO UNFLTRD RECOVER
		TOTAL (UG/L) (34501)	TOTAL (UG/L) (77168)	WHOLE TOTAL (UG/L) (77443)	WHOLE TOTAL (UG/L) (77651)	WHOLE TOTAL (UG/L) (32103)	TOTAL (UG/L) (34541)	TOTAL (UG/L) (34546)	TOTAL (UG/L) (77170)	TOTAL (UG/L) (73547)
Db11-27	08-07-00	<.04	<.03	<.2	<.04	<.1	<.07	<.03	<.05	<.7
	09-27-00	--	--	--	--	--	--	--	--	--
Db11-28	08-07-00	<.04	<.03	<.2	<.04	<.1	<.07	<.03	<.05	<.7
	09-27-00	--	--	--	--	--	--	--	--	--
Db11-48	08-09-00	.52	<.03	<.2	<.04	<.1	<.07	<.03	<.05	<.7
Dc31-15	08-08-00	<.04	<.03	<.2	<.04	<.1	<.07	<.03	<.05	<.7
	09-27-00	--	--	--	--	--	--	--	--	--
Dd52-15	08-08-00	E.05	<.03	<.2	<.04	<.1	<.07	<.03	<.05	<.7
	09-27-00	--	--	--	--	--	--	--	--	--

E Estimated value.
 < Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

NEWCASTLE COUNTY, DELAWARE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	2-HEXA-NONE WATER WHOLE	ACETONE WATER WHOLE	ACRYLO-NITRILE WATER WHOLE	1,2,3-TRI-CHLORO BENZENE WAT, WH REC	BENZENE 123-TRI METHYL- WATER UNFLTRD RECOVER	BENZENE 1,2,4-TRI-CHLORO- WAT UNF RECOVER	BENZENE 124-TRI METHYL WATER UNFILT RECOVER	BENZENE 135-TRI METHYL WATER UNFLTRD REC	BENZENE 1,3-DI-CHLORO- WATER UNFLTRD REC
		(UG/L) (77103)	(UG/L) (81552)	(UG/L) (34215)	(UG/L) (77613)	(UG/L) (77221)	(UG/L) (34551)	(UG/L) (77222)	(UG/L) (77226)	(UG/L) (34566)
Db11-27	08-07-00	<.7	<7	<1	<.3	<.1	<.2	<.06	<.04	<.05
	09-27-00	--	--	--	--	--	--	--	--	--
Db11-28	08-07-00	<.7	<7	<1	<.3	<.1	<.2	<.06	<.04	<.05
	09-27-00	--	--	--	--	--	--	--	--	--
Db11-48	08-09-00	<.7	<7	<1	<.3	<.1	<.2	<.06	<.04	<.05
Dc31-15	08-08-00	<.7	<7	<1	<.3	<.1	<.2	<.06	<.04	<.05
	09-27-00	--	--	--	--	--	--	--	--	--
Dd52-15	08-08-00	<.7	<7	<1	<.3	<.1	<.2	<.06	<.04	<.05
	09-27-00	--	--	--	--	--	--	--	--	--
WELL NUMBER	DATE	BENZENE 14BRFL-SURROG VOC UNFLTRD REC	BENZENE 1,4-DI-CHLORO- WATER UNFLTRD REC	ISO-PROPYL- BENZENE WATER WHOLE REC	BENZENE N-BUTYL WATER UNFLTRD REC	BENZENE N-PROPY WATER UNFLTRD REC	BENZENE O-DI-CHLORO- WATER UNFLTRD REC	BENZENE SEC BUTYL- WATER UNFLTRD REC	BENZENE TERT- BUTYL- WATER UNFLTRD REC	BENZENE TOTAL (UG/L)
		(99834)	(34571)	(77223)	(77342)	(77224)	(34536)	(77350)	(77353)	(34030)
Db11-27	08-07-00	115	<.05	<.03	<.2	<.04	<.05	<.03	<.06	<.04
	09-27-00	--	--	--	--	--	--	--	--	--
Db11-28	08-07-00	111	<.05	<.03	<.2	<.04	<.05	<.03	<.06	<.04
	09-27-00	--	--	--	--	--	--	--	--	--
Db11-48	08-09-00	113	<.05	<.03	<.2	<.04	<.05	<.03	<.06	<.04
Dc31-15	08-08-00	110	<.05	<.03	<.2	<.04	<.05	<.03	<.06	<.04
	09-27-00	--	--	--	--	--	--	--	--	--
Dd52-15	08-08-00	120	<.05	<.03	<.2	<.04	<.05	<.03	<.06	<.04
	09-27-00	--	--	--	--	--	--	--	--	--
WELL NUMBER	DATE	BROMO- BENZENE WATER, WHOLE, TOTAL	BROMO- ETHENE WATER UNFLTRD RECOVER	BROMO- FORM TOTAL	CARBON DI- SULFIDE WATER WHOLE TOTAL	CARBON TETRA- CHLO- RIDE TOTAL	CHLORO- BENZENE TOTAL	CHLORO- DI- METHANE TOTAL	CHLORO- ETHANE TOTAL	CHLORO- FORM TOTAL
		(UG/L) (81555)	(UG/L) (50002)	(UG/L) (32104)	(UG/L) (77041)	(UG/L) (32102)	(UG/L) (34301)	(UG/L) (32105)	(UG/L) (34311)	(UG/L) (32106)
Db11-27	08-07-00	<.04	<.1	<.06	<.07	<.06	<.03	<.2	<.1	.25
	09-27-00	--	--	--	--	--	--	--	--	--
Db11-28	08-07-00	<.04	<.1	<.06	<.07	<.06	<.03	<.2	<.1	.34
	09-27-00	--	--	--	--	--	--	--	--	--
Db11-48	08-09-00	<.04	<.1	<.06	<.07	<.06	<.03	<.2	<.1	.44
Dc31-15	08-08-00	<.04	<.1	<.06	<.07	<.06	<.03	<.2	<.1	.43
	09-27-00	--	--	--	--	--	--	--	--	--
Dd52-15	08-08-00	<.04	<.1	<.06	<.07	<.06	<.03	<.2	<.1	.43
	09-27-00	--	--	--	--	--	--	--	--	--
WELL NUMBER	DATE	CIS-1,2 -DI-CHLORO- ETHENE WATER TOTAL	CIS 1,3-DI-CHLORO- PROPENE TOTAL	DIBROMO CHLORO- PROPANE WATER WHOLE TOT. REC	DI- BROMO- METHANE WATER WHOLE RECOVER	BROMO- DI- CHLORO- METHANE TOTAL	DI- CHLORO- FLUORO- METHANE TOTAL	DI-ISO- PROPYL- ETHER, WATER, UNFLTRD RECOVER	ETHANE, 1112- TETRA- CHLORO- WAT UNF REC	ETHANE, 1,1,2,2 TETRA- CHLORO- WAT UNF REC
		(UG/L) (77093)	(UG/L) (34704)	(UG/L) (82625)	(UG/L) (30217)	(UG/L) (32101)	(UG/L) (34668)	(UG/L) (81577)	(UG/L) (77562)	(UG/L) (34516)
Db11-27	08-07-00	E.08	<.09	<.2	<.05	<.05	<.3	<.1	<.03	<.09
	09-27-00	--	--	--	--	--	--	--	--	--
Db11-28	08-07-00	<.04	<.09	<.2	<.05	<.05	<.3	<.1	<.03	<.09
	09-27-00	--	--	--	--	--	--	--	--	--
Db11-48	08-09-00	.10	<.09	<.2	<.05	E.07	<.3	<.1	<.03	<.09
Dc31-15	08-08-00	<.04	<.09	<.2	<.05	<.05	<.3	<.1	<.03	<.09
	09-27-00	--	--	--	--	--	--	--	--	--
Dd52-15	08-08-00	<.04	<.09	<.2	<.05	<.05	<.3	<.1	<.03	<.09
	09-27-00	--	--	--	--	--	--	--	--	--

E Estimated value.
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QUALITY OF GROUND WATER DATA

NEWCASTLE COUNTY, DELAWARE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	ETHANE	ETHANE	ETHER	ETHER	ETHER	ETHYL-BENZENE	FREON-	FURAN,	HEXA-
		12DICL SURROG VOC UNFLTRD REC PERCENT (99832)	HEXA-CHLORO-WATER UNFLTRD RECOVER (34396)	ETHER ETHYL WATER UNFLTRD RECOVER (81576)	TERT-BUTYL ETHYL UNFLTRD RECOVER (50004)	TERT-PENTYL METHYL UNFLTRD RECOVER (50005)		113 WATER UNFLTRD REC (77652)	TETRA-HYDRO-WATER UNFLTRD RECOVER (81607)	CHLORO-BUT-ADIENE TOTAL (39702)
Db11-27	08-07-00	115	<.2	<.2	<.05	E.1	<.03	.18	<2	<.1
	09-27-00	--	--	--	--	--	--	--	--	--
Db11-28	08-07-00	110	<.2	<.2	<.05	E.1	<.03	.23	<2	<.1
	09-27-00	--	--	--	--	--	--	--	--	--
Db11-48	08-09-00	110	<.2	<.2	<.05	<.1	<.03	3.27	<2	<.1
	09-27-00	--	--	--	--	--	--	--	--	--
Dc31-15	08-08-00	110	<.2	<.2	<.05	.2	<.03	<.06	<2	<.1
	09-27-00	--	--	--	--	--	--	--	--	--
Dd52-15	08-08-00	113	<.2	<.2	.36	.4	<.03	E.03	<2	<.1
	09-27-00	--	--	--	--	--	--	--	--	--

WELL NUMBER	DATE	ISO-DURENE	METHAC- RYLATE	METHAC- RYLATE	METH- ACRYLO-	METHANE	METHYL	METHYL	METHYL	METHYL-
		WATER UNFLTRD RECOVER (50000)	ETHYL-WATER UNFLTRD RECOVER (73570)	METHYL-WATER UNFLTRD RECOVER (81597)	NITRITE-WATER UNFLTRD RECOVER (81593)	BROMO-CHLORO-WAT UNFLTRD REC (77297)	ACRY-LATE WATER UNFLTRD RECOVER (49991)	IODIDE WATER UNFLTRD RECOVER (77424)	TERT-BUTYL ETHER REC (78032)	WAT UNF REC (34413)
Db11-27	08-07-00	<.2	<.2	<.3	<.6	<.04	<1	<.1	4.0	<.3
	09-27-00	--	--	--	--	--	--	--	--	--
Db11-28	08-07-00	<.2	<.2	<.3	<.6	<.04	<1	<.1	2.6	<.3
	09-27-00	--	--	--	--	--	--	--	--	--
Db11-48	08-09-00	<.2	<.2	<.3	<.6	<.04	<1	<.1	1.5	<.3
	09-27-00	--	--	--	--	--	--	--	--	--
Dc31-15	08-08-00	<.2	<.2	<.3	<.6	<.04	<1	<.1	1.5	<.3
	09-27-00	--	--	--	--	--	--	--	--	--
Dd52-15	08-08-00	<.2	<.2	<.3	<.6	<.04	<1	<.1	12.0	<.3
	09-27-00	--	--	--	--	--	--	--	--	--

WELL NUMBER	DATE	METHYL-	METHYL-	METHYL-	METHYL-	META/	NAPHTH-	O-	O-	P-ISO-
		CHLO-CHLO- RIDE TOTAL (34418)	ENE CHLO- RIDE TOTAL (34423)	WATER WHOLE TOTAL (81595)	ETHYL-KETONE WHOLE TOTAL (78133)	ISO-BUTYL KETONE WAT.WH. TOTAL (81595)		PARA-XYLENE WATER UNFLTRD REC (85795)	CHLORO-TOLUENE WHOLE TOTAL (77275)	XYLENE WATER WHOLE TOTAL (77135)
Db11-27	08-07-00	<.5	<.4	<2	<.4	<.06	<.2	<.04	<.04	<.07
	09-27-00	--	--	--	--	--	--	--	--	--
Db11-28	08-07-00	<.5	<.4	<2	<.4	<.06	<.2	<.04	<.04	<.07
	09-27-00	--	--	--	--	--	--	--	--	--
Db11-48	08-09-00	E.1	<.4	<2	<.4	<.06	<.2	<.04	<.04	<.07
	09-27-00	--	--	--	--	--	--	--	--	--
Dc31-15	08-08-00	<.5	<.4	<2	<.4	<.06	<.2	<.04	<.04	<.07
	09-27-00	--	--	--	--	--	--	--	--	--
Dd52-15	08-08-00	<.5	<.4	<2	<.4	<.06	<.2	<.04	<.04	<.07
	09-27-00	--	--	--	--	--	--	--	--	--

WELL NUMBER	DATE	1234-	1,3-DI-	PROPENE	STYRENE	TETRA-	TOLUENE	TOLUENE	TOLUENE	TOLUENE
		METHYL-BENZENE UNFLTRD REC (49999)	CHLORO-PROPANE WAT. WH TOTAL (77173)	3-CHLORO-WATER UNFLTRD RECOVER (78109)		CHLORO-ETHYL-ENE TOTAL (34475)	D8 SURROG VOC UNFLTRD REC (99833)	O-ETHYL WATER UNFLTRD RECOVER (77220)	P-CHLOR WATER UNFLTRD REC (77277)	
Db11-27	08-07-00	<.2	<.1	<.2	<.04	1.1	106	<.06	<.06	E.02
	09-27-00	--	--	--	--	--	--	--	--	--
Db11-28	08-07-00	<.2	<.1	<.2	<.04	.7	107	<.06	<.06	<.05
	09-27-00	--	--	--	--	--	--	--	--	--
Db11-48	08-09-00	<.2	<.1	<.2	<.04	5.9	106	<.06	<.06	E.01
	09-27-00	--	--	--	--	--	--	--	--	--
Dc31-15	08-08-00	<.2	<.1	<.2	<.04	E.1	106	<.06	<.06	E.02
	09-27-00	--	--	--	--	--	--	--	--	--
Dd52-15	08-08-00	<.2	<.1	<.2	<.04	.1	107	<.06	<.06	E.02
	09-27-00	--	--	--	--	--	--	--	--	--

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QUALITY OF GROUND WATER DATA

NEWCASTLE COUNTY, DELAWARE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	TRANS-1,3-DI-CHLORO-PROPENE	TRI-CHLORO-ETHYLENE	TRI-CHLORO-FLUORO-METHANE	VINYL-CHLORIDE	ALPHA COUNT, 2 SIGMA WAT DIS AS	ALPHA RADIO. WATER DISS AS	BETA, 2 SIGMA WATER, DISS, AS	GROSS BETA, DIS-SOLVED AS
		TOTAL (UG/L) (34699)	TOTAL (UG/L) (39180)	TOTAL (UG/L) (34488)	TOTAL (UG/L) (39175)	TH-230 (PCI/L) (75987)	TH-230 (PCI/L) (04126)	CS-137 (PCI/L) (75989)	CS-137 (PCI/L) (03515)
Db11-27	08-07-00	<.09	.10	<.09	<.1	2.0	<3.00	4.0	<4.00
	09-27-00	--	--	--	--	--	--	--	--
Db11-28	08-07-00	<.09	E.04	<.09	<.1	2.2	<3.00	3.9	<4.00
	09-27-00	--	--	--	--	--	--	--	--
Db11-48	08-09-00	<.09	2.35	<.09	<.1	--	--	--	--
Dc31-15	08-08-00	<.09	E.04	.15	<.1	2.4	<3.00	3.9	<4.00
	09-27-00	--	--	--	--	--	--	--	--
Dd52-15	08-08-00	<.09	E.03	<.09	<.1	2.4	<3.00	3.9	<4.00
	09-27-00	--	--	--	--	--	--	--	--

WELL NUMBER	DATE	RADIUM 226, DIS-SOLVED (PCI/L) (09503)	RADIUM 228 DIS-SOLVED (PCI/L) (81366)	RA-224 2 SIGMA WATER FLTRD (PCI/L) (50834)	RA-224 2 SIGMA WATER FLTRD (PCI/L) (50833)	RA-226 2 SIGMA WATER, DISS, (PCI/L) (76001)	RA-228 2 SIGMA WATER, DISS, (PCI/L) (76000)	RADON 222 TOTAL (PCI/L) (82303)	RN-222 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L) (76002)
		Db11-27	08-07-00	--	<1.00	--	--	--	.41
09-27-00	<1.00		--	.03	<1.00	.04	--	--	--
Db11-28	08-07-00	--	<1.00	--	--	--	.43	222	23
	09-27-00	<1.00	--	.12	<1.00	.07	--	--	--
Db11-48	08-09-00	--	--	--	--	--	--	--	--
Dc31-15	08-08-00	--	<1.00	--	--	--	.43	260	21
	09-27-00	<1.00	--	.10	<1.00	.07	--	--	--
Dd52-15	08-08-00	--	<1.00	--	--	--	.34	192	20
	09-27-00	<1.00	--	.10	<1.00	.08	--	--	--

E Estimated value.
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QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	TIME	STATION NUMBER	SAMPLE TYPE	GEO- LOGIC UNIT	SITE	SAM- PLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)
Forest Hills 1	08-16-00	1130	383705075192801	ENVIRONMENTAL	112BVDM	GW	8030	10.0
Frankford 2	08-21-00	1500	383101075141101	ENVIRONMENTAL	112BVDM	GW	8030	10.0
	08-21-00	1501		REPLICATE	112BVDM	GW	8030	--
Georgetown 1	08-23-00	1400	384139075230101	ENVIRONMENTAL	112BVDM	GW	8030	15.0
Nc25-37	09-12-00	1300	384818075354101	ENVIRONMENTAL	112CLMB	GW	8030	15.0
Ng21-03	09-06-00	0830	384819075190101	ENVIRONMENTAL	112BVDM	GW	8030	10.0
Ng25-04	09-06-00	1200	384856075151101	ENVIRONMENTAL	112BVDM	GW	8030	5.0
Ni51-32	08-17-00	1100	384526075091601	ENVIRONMENTAL	112BVDM	GW	8030	5.0
Oc15-11	09-13-00	0900	384428075355701	ENVIRONMENTAL	112BVDM	GW	8030	15.0
Of23-11	07-11-00	1105	384345075225101	ENVIRONMENTAL	112PCPC	GW	8010	46.6
Of23-12	07-11-00	1415	384345075225102	ENVIRONMENTAL	112PCPC	GW	8010	47.0
Of23-13	07-11-00	1000	384345075225103	ENVIRONMENTAL	112PCPC	GW	8010	47.0
Oi25-18	09-13-00	1300	384322075051101	ENVIRONMENTAL	112BVDM	GW	8030	5.0
PH-DG-1	06-13-00	1330	384926075170401	ENVIRONMENTAL	112CLMB	PIEZ	4080	--
PH-DG-2	06-13-00	0914	384931075170401	BLANK			--	--
	06-13-00	0915		ENVIRONMENTAL	112CLMB	PIEZ	4080	--
	06-13-00	0916		REPLICATE	112CLMB	PIEZ	4080	--
PH-DG-3	06-13-00	1015	384932075170201	ENVIRONMENTAL	112CLMB	PIEZ	4080	--
PH-DG-5	06-13-00	1430	384926075170501	ENVIRONMENTAL	112CLMB	PIEZ	4080	--
PH-DZ	06-13-00	1145	384925075170601	ENVIRONMENTAL	112CLMB	PIEZ	4080	--
PH-UG	06-13-00	1245	384923075170901	ENVIRONMENTAL	112CLMB	PIEZ	4080	--
Pc33-44	09-12-00	0930	383801075375701	ENVIRONMENTAL	112BVDM	GW	8030	10.0
Pe23-185	09-05-00	1130	383815075271001	ENVIRONMENTAL	122MNKN	GW	8030	10.0
	09-05-00	1201		REPLICATE	122MNKN	GW	8030	--
Ph13-07	11-05-99	1200	383929075123105	ENVIRONMENTAL	112CLMB	GW	4040	25.1
Ph13-13	11-05-99	1330	383929075123103	ENVIRONMENTAL	112CLMB	GW	4040	25.0
Ph13-14	11-05-99	1430	383929075123102	ENVIRONMENTAL	112CLMB	GW	4040	25.1
Ph13-15	11-05-99	1100	383929075123101	ENVIRONMENTAL	112CLMB	GW	4040	25.2
Ph13-16	10-04-99	1030	383907075124103	ENVIRONMENTAL	112CLMB	GW	4040	22.5
Ph13-28	11-05-99	1000	383929075123104	ENVIRONMENTAL	112CLMB	GW	4040	25.1
Ph14-13	11-18-99	1300	383932075112601	ENVIRONMENTAL	112CLMB	GW	4040	10.0
Pi31-02	08-17-00	1500	383736075092801	ENVIRONMENTAL	112BVDM	GW	8030	5.0
Qd21-12	08-22-00	1400	383311075344401	ENVIRONMENTAL	112BVDM	GW	8030	5.0
Qd52-09	08-22-00	1000	383000075326001	ENVIRONMENTAL	112BVDM	GW	8030	10.0
Rd22-01	08-31-00	0930	382805075330301	ENVIRONMENTAL	112BVDM	GW	8030	15.0
	08-31-00	1001		REPLICATE	112BVDM	GW	8030	--
Ri23-04	08-21-00	1100	382830075073601	ENVIRONMENTAL	112BVDM	GW	8030	5.0
wibypla	03-13-00	1400	382745075234301	ENVIRONMENTAL	112CLMB	PIEZ	4048	--
wibyplb	03-13-00	1600	382745075234302	ENVIRONMENTAL	112CLMB	PIEZ	4048	--
wibyp1d	03-13-00	1300	382745075234304	ENVIRONMENTAL	112CLMB	PIEZ	4048	--
	03-13-00	1315		REPLICATE	112CLMB	PIEZ	4080	--

Geologic Unit (aquifer): 112BVDM - Beaverdam Sand
 112CLMB - Columbia Formation
 112PCPC - Pleistocene-Pliocene Series
 122MNKN - Manokin Aquifer

Site Type: GW - Ground Water
 PIEZ - Piezometer

Sampling Method: 4048 - Submersible gas-displacement pump
 4080 - Peristaltic pump
 8010 - Other
 8030 - Grab sample at water-supply tap

QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)	DEPTH TO BOTTOM OF SAMPLE INTER-VAL (FT) (72016)	DEPTH OF SAMPLE INTER-VAL (FT) (72015)	PUMP OR FLOW PERIOD TO SAM-PLING (MIN) (72004)	FLOW RATE (G/M) (00059)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)
Forest Hills 1	08-16-00	--	110.00	110	--	50	--	768	60	6.2
Frankford 2	08-21-00	--	85.00	81	69	45	--	778	1	.1
	08-21-00	--	85.00	81	69	--	--	--	--	--
Georgetown 1	08-23-00	--	120.00	120	--	30	--	774	1	.1
Nc25-37	09-12-00	--	63.00	63	40	40	--	772	36	3.5
Ng21-03	09-06-00	--	111.00	111	91	20	--	779	74	7.5
Ng25-04	09-06-00	--	139.00	139	99	25	--	779	9	.9
Ni51-32	08-17-00	--	139.00	135	85	45	1300	773	46	4.7
Oc15-11	09-13-00	--	119.00	119	100	30	--	768	61	6.1
Of23-11	07-11-00	2.19	19.00	19	16	55	.25	--	--	21.0
Of23-12	07-11-00	1.95	60.00	60	57	40	.75	--	--	.2
Of23-13	07-11-00	1.98	110.00	110	107	60	1.2	--	--	.4
Oi25-18	09-13-00	--	38.00	38	23	15	--	768	33	3.3
PH-DG-1	06-13-00	--	4.00	--	--	--	--	--	--	<.1
PH-DG-2	06-13-00	--	4.00	--	--	--	--	--	--	--
	06-13-00	--	4.00	--	--	--	--	--	--	1.9
	06-13-00	--	4.00	--	--	--	--	--	--	--
PH-DG-3	06-13-00	--	4.00	--	--	--	--	--	--	5.7
PH-DG-5	06-13-00	--	4.00	--	--	--	--	--	--	--
PH-DZ	06-13-00	--	4.00	--	--	--	--	--	--	2.5
PH-UG	06-13-00	--	4.00	--	--	--	--	--	--	3.0
Pc33-44	09-12-00	--	95.00	85	--	50	--	772	68	6.8
Pe23-185	09-05-00	--	120.00	110	100	60	--	774	1	.1
	09-05-00	--	120.00	110	100	--	--	--	--	--
Ph13-07	11-05-99	13.24	20.00	20	15	30	.50	772	55	5.4
Ph13-13	11-05-99	13.20	60.00	60	55	35	.62	772	44	4.5
Ph13-14	11-05-99	13.01	75.00	75	70	55	.60	772	49	5.0
Ph13-15	11-05-99	13.34	95.00	95	90	60	.40	772	56	5.8
Ph13-16	10-04-99	10.04	45.00	45	40	35	.78	769	71	7.5
Ph13-28	11-05-99	13.24	40.00	40	35	35	.80	772	84	8.7
Ph14-13	11-18-99	5.66	65.00	65	55	120	.35	770	54	5.6
Pi31-02	08-17-00	--	70.00	70	55	30	220	773	78	8.1
Qd21-12	08-22-00	--	100.00	100	70	45	--	778	96	9.8
Qd52-09	08-22-00	--	70.00	70	60	50	--	778	97	10.0
Rd22-01	08-31-00	--	60.00	60	52	30	--	772	2	.2
	08-31-00	--	60.00	60	52	--	--	--	--	--
Ri23-04	08-21-00	--	82.00	80	70	55	--	778	1	.1
wibypla	03-13-00	8.50	8.75	--	--	10	.20	--	--	2.5
wibyplb	03-13-00	6.50	6.60	--	--	10	.20	--	--	2.4
wibypld	03-13-00	4.00	8.73	--	--	10	.20	--	--	.2
	03-13-00	--	8.73	--	--	--	--	--	--	--

QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	ALKA-LINITY	ANC WATER	BICAR-BONATE	ANC BICAR-BONATE	CHLO-RIDE,	FLUO-RIDE,	SILICA,	SULFATE	NITRO-GEN,AM-
		WAT DIS TOT IT	UNFLTRD IT	WATER DIS IT	WATER DIS IT	RIDE, DIS-	RIDE, DIS-	DIS-SOLVED	DIS-SOLVED	MONIA + ORGANIC DIS.
		MG/L AS CACO3 (39086)	MG/L AS CACO3 (00419)	MG/L AS HCO3 (00453)	MG/L AS HCO3 (00450)	(MG/L AS CL) (00940)	(MG/L AS F) (00950)	(MG/L AS SIO2) (00955)	(MG/L AS SO4) (00945)	(MG/L AS N) (00623)
Forest Hills 1	08-16-00	10	--	12	--	11.9	<.1	21.6	E.2	<.10
Frankford 2	08-21-00	22	--	26	--	31.3	<.1	26.1	17.4	.24
	08-21-00	--	--	--	--	--	--	--	--	--
Georgetown 1	08-23-00	23	--	29	--	60.8	<.1	20.1	44.4	.15
Nc25-37	09-12-00	10	--	12	--	25.0	<.1	19.2	4.2	<.10
Ng21-03	09-06-00	5	--	6	--	12.1	<.1	13.0	1.7	<.10
Ng25-04	09-06-00	9	--	11	--	18.4	<.1	14.6	.8	<.10
Ni51-32	08-17-00	8	--	10	--	15.7	<.1	16.4	9.6	<.10
Oc15-11	09-13-00	6	--	7	--	8.7	<.1	19.1	<.3	<.10
Of23-11	07-11-00	20	--	24	--	12.0	<.1	17.7	1.5	<.10
Of23-12	07-11-00	16	--	20	--	4.4	<.1	19.2	.7	E.10
Of23-13	07-11-00	16	--	19	--	9.2	<.1	22.0	.5	<.10
Oi25-18	09-13-00	22	--	27	--	27.8	<.1	9.4	22.5	E.10
PH-DG-1	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-2	06-13-00	--	--	--	--	--	--	--	--	--
	06-13-00	--	--	--	--	--	--	--	--	--
	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-3	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-5	06-13-00	--	--	--	--	--	--	--	--	--
PH-DZ	06-13-00	--	--	--	--	--	--	--	--	--
PH-UG	06-13-00	--	--	--	--	--	--	--	--	--
Pc33-44	09-12-00	--	--	--	--	21.6	<.1	11.4	15.5	E.10
Pe23-185	09-05-00	41	--	49	--	4.6	<.1	29.2	.4	E.10
	09-05-00	--	--	--	--	--	--	--	--	--
Ph13-07	11-05-99	1	--	2	--	33.2	<.1	17.1	5.1	E.10
Ph13-13	11-05-99	13	--	15	--	--	--	--	--	<.10
Ph13-14	11-05-99	10	--	13	--	--	--	--	--	<.10
Ph13-15	11-05-99	11	--	13	--	--	--	--	--	<.10
Ph13-16	10-04-99	6	--	7	--	20.5	<.1	16.7	19.7	E.10
Ph13-28	11-05-99	9	--	11	--	23.1	<.1	19.8	14.2	E.10
Ph14-13	11-18-99	--	5	--	6	13.0	<.1	12.6	3.0	E.10
Pi31-02	08-17-00	5	--	6	--	13.4	<.1	16.0	2.4	E.10
Qd21-12	08-22-00	8	--	10	--	10.1	<.1	18.4	12.1	<.10
Qd52-09	08-22-00	12	--	15	--	6.6	<.1	26.2	3.3	<.10
Rd22-01	08-31-00	19	--	24	--	8.6	<.1	39.2	2.4	<.10
	08-31-00	--	--	--	--	8.6	<.1	39.0	2.4	<.10
Ri23-04	08-21-00	24	--	29	--	19.4	<.1	33.1	17.2	E.10
wibypla	03-13-00	--	--	--	--	--	--	--	--	.55
wibyplb	03-13-00	--	--	--	--	--	--	--	--	1.1
wibypld	03-13-00	--	--	--	--	--	--	--	--	.37
	03-13-00	--	--	--	--	--	--	--	--	.39

E Estimated value.
 < Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	NITRO- GEN, AM- MONIA + ORGANIC	NITRO- GEN, AMMONIA DIS- SOLVED	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN, NITRATE DIS- SOLVED	NITRO- GEN, ORGANIC DIS- SOLVED	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS P04)
		(00625)	(00608)	(00631)	(00613)	(00618)	(00607)	(00600)	(00602)	(00660)
Forest Hills 1	08-16-00	<.10	<.020	7.85	<.010	--	--	--	--	--
Frankford 2	08-21-00	.23	.167	<.050	<.010	--	.10	--	--	.101
	08-21-00	--	--	--	--	--	--	--	--	--
Georgetown 1	08-23-00	.16	<.020	2.62	<.010	--	--	2.8	2.8	--
Nc25-37	09-12-00	<.10	<.020	8.43	<.010	--	--	--	--	--
Ng21-03	09-06-00	<.10	<.020	8.75	<.010	--	--	--	--	--
Ng25-04	09-06-00	<.10	<.020	.118	<.010	--	--	--	--	--
Ni51-32	08-17-00	<.10	<.020	5.54	<.010	--	--	--	--	--
Oc15-11	09-13-00	<.10	<.020	8.78	<.010	--	--	--	--	--
Of23-11	07-11-00	--	.021	6.38	<.010	--	--	--	--	--
Of23-12	07-11-00	--	.022	<.050	<.010	--	--	--	--	--
Of23-13	07-11-00	--	<.020	7.64	<.010	--	--	--	--	--
Oi25-18	09-13-00	.10	.047	2.35	<.010	--	--	2.5	--	--
PH-DG-1	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-2	06-13-00	--	--	--	--	--	--	--	--	--
	06-13-00	--	--	--	--	--	--	--	--	--
	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-3	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-5	06-13-00	--	--	--	--	--	--	--	--	--
PH-DZ	06-13-00	--	--	--	--	--	--	--	--	--
PH-UG	06-13-00	--	--	--	--	--	--	--	--	--
Pc33-44	09-12-00	E.10	<.020	4.96	<.010	--	--	--	--	--
Pe23-185	09-05-00	E.10	.055	<.050	<.010	--	--	--	--	--
	09-05-00	--	--	--	--	--	--	--	--	--
Ph13-07	11-05-99	--	<.020	20.6	<.010	--	--	--	--	--
Ph13-13	11-05-99	--	<.020	3.38	<.010	--	--	--	--	--
Ph13-14	11-05-99	--	<.020	3.64	<.010	--	--	--	--	--
Ph13-15	11-05-99	--	<.020	3.51	<.010	--	--	--	--	--
Ph13-16	10-04-99	--	.029	17.3	<.010	--	--	--	--	.034
Ph13-28	11-05-99	--	<.020	22.5	<.010	--	--	--	--	--
Ph14-13	11-18-99	--	<.020	4.25	<.010	--	--	--	--	--
Pi31-02	08-17-00	E.10	<.020	7.33	<.010	--	--	--	--	--
Qd21-12	08-22-00	E.10	<.020	6.74	<.010	--	--	--	--	--
Qd52-09	08-22-00	<.10	<.020	1.28	<.010	--	--	--	--	--
Rd22-01	08-31-00	<.10	<.020	.866	.024	.842	--	--	--	--
	08-31-00	<.10	<.020	.864	.023	.841	--	--	--	--
Ri23-04	08-21-00	E.10	.031	<.050	<.010	--	--	--	--	.058
wibypla	03-13-00	.81	<.020	7.81	<.010	--	--	8.6	8.4	--
wibyplb	03-13-00	.95	<.020	57.5	<.010	--	--	58	59	--
wibypld	03-13-00	.36	.081	<.050	<.010	--	.29	--	--	--
	03-13-00	.37	.077	<.050	<.010	--	.31	--	--	--

E Estimated value.

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QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	SOLIDS, RESIDUE AT 180 DEG. C SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	TURBIDITY (NTU) (00076)	ALUMINUM, DIS-SOLVED (UG/L AS AL) (01106)
Forest Hills 1	08-16-00	<.006	<.010	<.008	--	--	115	--	--	--
Frankford 2	08-21-00	.068	.033	.048	--	--	129	126	--	--
	08-21-00	--	--	--	--	--	--	--	--	--
Georgetown 1	08-23-00	<.006	<.010	<.008	--	--	231	221	--	--
Nc25-37	09-12-00	<.006	<.010	<.008	--	--	127	126	--	--
Ng21-03	09-06-00	<.006	<.010	<.008	--	--	107	92	--	--
Ng25-04	09-06-00	E.003	<.010	<.008	--	--	61	56	--	--
Ni51-32	08-17-00	<.006	<.010	<.008	--	--	98	96	--	--
Oc15-11	09-13-00	<.006	<.010	<.008	--	--	97	--	--	--
Of23-11	07-11-00	E.004	<.010	--	--	--	111	97	--	--
Of23-12	07-11-00	.007	<.010	--	--	--	44	45	--	--
Of23-13	07-11-00	.006	<.010	--	--	--	119	99	--	--
Oi25-18	09-13-00	<.006	<.010	<.008	--	--	120	120	--	--
PH-DG-1	06-13-00	--	--	--	--	34	--	--	--	154
PH-DG-2	06-13-00	--	--	--	--	--	--	--	--	9
	06-13-00	--	--	--	--	27	--	--	--	41
	06-13-00	--	--	--	--	--	--	--	--	44
PH-DG-3	06-13-00	--	--	--	--	33	--	--	--	628
PH-DG-5	06-13-00	--	--	--	--	--	--	--	--	--
PH-DZ	06-13-00	--	--	--	--	3.3	--	--	--	19
PH-UG	06-13-00	--	--	--	--	1.3	--	--	--	16
Pc33-44	09-12-00	<.006	<.010	<.008	--	--	95	--	--	--
Pe23-185	09-05-00	.009	<.010	.009	--	--	73	80	--	--
	09-05-00	--	--	--	--	--	--	--	--	--
Ph13-07	11-05-99	<.006	<.010	--	.96	--	210	191	--	112
Ph13-13	11-05-99	E.004	<.010	--	--	--	--	--	--	--
Ph13-14	11-05-99	E.003	<.010	--	--	--	--	--	--	--
Ph13-15	11-05-99	E.003	<.010	--	--	--	--	--	6.7	--
Ph13-16	10-04-99	.017	.011	--	.73	--	164	179	5.4	<15
Ph13-28	11-05-99	.006	<.010	--	.42	--	204	210	3.3	<15
Ph14-13	11-18-99	<.006	<.010	--	1.0	--	65	67	--	<15
Pi31-02	08-17-00	<.006	<.010	<.008	--	--	98	88	--	--
Qd21-12	08-22-00	E.003	<.010	E.004	--	--	104	100	--	--
Qd52-09	08-22-00	.007	<.010	E.007	--	--	66	63	--	--
Rd22-01	08-31-00	E.003	<.010	<.008	--	--	79	82	--	--
	08-31-00	E.004	<.010	<.008	--	--	86	--	--	--
Ri23-04	08-21-00	.052	.019	.026	--	--	121	116	--	--
wibypla	03-13-00	<.006	<.010	<.008	--	--	--	--	--	--
wibyplb	03-13-00	<.006	<.010	<.008	--	--	--	--	--	--
wibypld	03-13-00	E.003	<.010	<.008	--	--	--	--	--	--
	03-13-00	<.006	<.010	<.008	--	--	--	--	--	--

E Estimated value.

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QUALITY OF GROUND WATER DATA
SUSSEX COUNTY, DELAWARE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	ANTI-	ARSENIC	BARIUM,	BERYL-	BROMIDE	CADMIUM	CHRO-	COBALT,	COPPER,
		MOMY, DIS- SOLVED (UG/L AS SB) (01095)	DIS- SOLVED (UG/L AS AS) (01000)	DIS- SOLVED (UG/L AS BA) (01005)	LIUM, DIS- SOLVED (UG/L AS BE) (01010)	DIS- SOLVED (MG/L AS BR) (71870)	DIS- SOLVED (UG/L AS CD) (01025)	MIUM, DIS- SOLVED (UG/L AS CR) (01030)	DIS- SOLVED (UG/L AS CO) (01035)	DIS- SOLVED (UG/L AS CU) (01040)
Forest Hills 1	08-16-00	--	--	--	--	.05	--	--	--	--
Frankford 2	08-21-00	--	--	--	--	.03	--	--	--	--
	08-21-00	--	--	--	--	--	--	--	--	--
Georgetown 1	08-23-00	--	--	--	--	.11	--	--	--	--
Nc25-37	09-12-00	--	--	--	--	.02	--	--	--	--
Ng21-03	09-06-00	--	--	--	--	.05	--	--	--	--
Ng25-04	09-06-00	--	--	--	--	.08	--	--	--	--
Ni51-32	08-17-00	--	--	--	--	.06	--	--	--	--
Oc15-11	09-13-00	--	--	--	--	.03	--	--	--	--
Of23-11	07-11-00	--	--	--	--	.05	--	--	--	--
Of23-12	07-11-00	--	--	--	--	.02	--	--	--	--
Of23-13	07-11-00	--	--	--	--	.02	--	--	--	--
Oi25-18	09-13-00	--	--	--	--	.08	--	--	--	--
PH-DG-1	06-13-00	2	5.0	16	<1	--	<1.0	.9	2	<1
PH-DG-2	06-13-00	<1	<2.0	<1	<1	--	<1.0	<.8	<1	<1
	06-13-00	<1	<2.0	17	<1	--	<1.0	<.8	2	<1
	06-13-00	<1	<2.0	17	<1	--	<1.0	<.8	1	<1
PH-DG-3	06-13-00	<1	2.6	37	<1	--	<1.0	2.2	2	<1
PH-DG-5	06-13-00	--	--	--	--	--	--	--	--	--
PH-DZ	06-13-00	10	<2.0	68	<1	--	<1.0	<.8	2	<1
PH-UG	06-13-00	<1	<2.0	63	<1	--	<1.0	<.8	2	<1
Pc33-44	09-12-00	--	--	--	--	.04	--	--	--	--
Pe23-185	09-05-00	--	--	--	--	.06	--	--	--	--
	09-05-00	--	--	--	--	--	--	--	--	--
Ph13-07	11-05-99	<1	<2.0	--	--	--	--	--	--	--
Ph13-13	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-14	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-15	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-16	10-04-99	<1	<2.0	--	--	--	--	--	--	--
Ph13-28	11-05-99	<1	<2.0	--	--	--	--	--	--	--
Ph14-13	11-18-99	<1	<2.0	--	--	--	--	--	--	--
Pi31-02	08-17-00	--	--	--	--	.04	--	--	--	--
Qd21-12	08-22-00	--	--	--	--	.04	--	--	--	--
Qd52-09	08-22-00	--	--	--	--	.02	--	--	--	--
Rd22-01	08-31-00	--	--	--	--	<.01	--	--	--	--
	08-31-00	--	--	--	--	<.01	--	--	--	--
Ri23-04	08-21-00	--	--	--	--	.05	--	--	--	--
wibypla	03-13-00	--	--	--	--	--	--	--	--	--
wibyp1b	03-13-00	--	--	--	--	--	--	--	--	--
wibyp1d	03-13-00	--	--	--	--	--	--	--	--	--
	03-13-00	--	--	--	--	--	--	--	--	--

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
Forest Hills 1	08-16-00	<10	--	4	--	--	--	--	--	--
Frankford 2	08-21-00	9640	--	70	--	--	--	--	--	--
	08-21-00	--	--	--	--	--	--	--	--	--
Georgetown 1	08-23-00	2000	--	150	--	--	--	--	--	--
Nc25-37	09-12-00	<10	--	46	--	--	--	--	--	--
Ng21-03	09-06-00	40	--	8	--	--	--	--	--	--
Ng25-04	09-06-00	10	--	<2	--	--	--	--	--	--
Ni51-32	08-17-00	10	--	7	--	--	--	--	--	--
Oc15-11	09-13-00	E10	--	3	--	--	--	--	--	--
Of23-11	07-11-00	<10	--	13	--	--	--	--	--	--
Of23-12	07-11-00	2770	--	20	--	--	--	--	--	--
Of23-13	07-11-00	<10	--	20	--	--	--	--	--	--
Oi25-18	09-13-00	20	--	8	--	--	--	--	--	--
PH-DG-1	06-13-00	--	1	43	--	<1	1	--	<1	5
PH-DG-2	06-13-00	--	<1	<1	--	<1	<1	--	<1	2
	06-13-00	--	<1	19	--	<1	<1	--	<1	5
	06-13-00	--	<1	18	--	<1	<1	--	<1	5
PH-DG-3	06-13-00	--	2	20	--	<1	3	--	<1	9
PH-DG-5	06-13-00	--	965	--	--	--	--	--	--	--
PH-DZ	06-13-00	--	392	79	--	<1	<1	--	<1	4
PH-UG	06-13-00	--	1	90	--	<1	1	--	<1	4
Pc33-44	09-12-00	30	--	40	--	--	--	--	--	--
Pe23-185	09-05-00	10100	--	171	--	--	--	--	--	--
	09-05-00	--	--	--	--	--	--	--	--	--
Ph13-07	11-05-99	<10	--	277	<.2	--	--	<2.4	--	--
Ph13-13	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-14	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-15	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-16	10-04-99	<10	--	64	<.2	--	--	<2.4	--	--
Ph13-28	11-05-99	20	--	2	<.2	--	--	<2.4	--	--
Ph14-13	11-18-99	<10	--	9	<.2	--	--	<2.4	--	--
Pi31-02	08-17-00	<10	--	7	--	--	--	--	--	--
Qd21-12	08-22-00	20	--	15	--	--	--	--	--	--
Qd52-09	08-22-00	<10	--	E2	--	--	--	--	--	--
Rd22-01	08-31-00	10	--	34	--	--	--	--	--	--
	08-31-00	10	--	32	--	--	--	--	--	--
Ri23-04	08-21-00	4590	--	38	--	--	--	--	--	--
wibypla	03-13-00	--	--	--	--	--	--	--	--	--
wibyplb	03-13-00	--	--	--	--	--	--	--	--	--
wibypld	03-13-00	--	--	--	--	--	--	--	--	--
	03-13-00	--	--	--	--	--	--	--	--	--

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QUALITY OF GROUND WATER DATA
SUSSEX COUNTY, DELAWARE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	2,6-DI-	ACETO-	ALA-		ATRA-	BEN-	BUTYL-	CAR-	CARBO-
		ETHYL- ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	CHLOR, WATER FLTRD REC (UG/L) (49260)	CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ZINE, WATER, DISS, REC (UG/L) (39632)	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	ATE, WATER, DISS, REC (UG/L) (04028)	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)
Forest Hills 1	08-16-00	--	--	--	--	--	--	--	--	--
Frankford 2	08-21-00	<.003	<.002	<.002	<.002	<.001	<.002	<.002	<.003	<.003
	08-21-00	<.003	<.002	<.002	<.002	<.001	<.002	<.002	<.003	<.003
Georgetown 1	08-23-00	<.003	<.002	<.002	<.002	<.001	<.002	<.003	<.003	<.003
Nc25-37	09-12-00	<.003	<.002	.054	<.002	.007	<.002	<.002	<.003	E.15
Ng21-03	09-06-00	<.003	<.002	<.002	<.002	.862	<.002	<.002	<.003	E.12
Ng25-04	09-06-00	<.003	<.002	<.002	<.002	<.001	<.002	<.002	<.003	<.003
Ni51-32	08-17-00	<.003	<.002	<.002	<.002	.067	<.002	<.002	<.003	<.003
Oc15-11	09-13-00	<.003	<.002	.031	<.002	.005	<.002	<.002	<.003	E.17
Of23-11	07-11-00	--	--	--	--	--	--	--	--	--
Of23-12	07-11-00	--	--	--	--	--	--	--	--	--
Of23-13	07-11-00	--	--	--	--	--	--	--	--	--
Oi25-18	09-13-00	<.003	<.002	<.002	<.002	E.003	<.002	<.002	<.003	<.003
PH-DG-1	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-2	06-13-00	--	--	--	--	--	--	--	--	--
	06-13-00	--	--	--	--	--	--	--	--	--
	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-3	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-5	06-13-00	--	--	--	--	--	--	--	--	--
PH-DZ	06-13-00	--	--	--	--	--	--	--	--	--
PH-UG	06-13-00	--	--	--	--	--	--	--	--	--
Pc33-44	09-12-00	<.003	<.002	.016	<.002	.011	<.002	<.002	<.003	E.008
Pe23-185	09-05-00	<.003	<.002	<.002	<.002	<.001	<.002	<.002	<.003	<.003
	09-05-00	--	--	--	--	--	--	--	--	--
Ph13-07	11-05-99	<.003	<.002	<.002	<.002	.046	<.002	<.002	<.007	<.003
Ph13-13	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-14	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-15	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-16	10-04-99	<.003	<.002	<.002	<.002	.136	<.002	<.002	<.003	<.003
Ph13-28	11-05-99	<.003	<.002	<.002	<.002	.270	<.002	<.002	<.003	<.003
Ph14-13	11-18-99	<.003	<.002	<.002	<.002	<.001	<.002	<.002	<.003	<.003
Pi31-02	08-17-00	<.003	<.002	.015	<.002	E.004	<.002	<.002	<.003	<.003
Qd21-12	08-22-00	<.003	<.002	.008	<.002	.007	<.002	<.002	<.003	<.003
Qd52-09	08-22-00	<.003	<.002	<.002	<.002	<.001	<.002	<.002	<.003	<.003
Rd22-01	08-31-00	<.003	<.002	<.002	<.002	<.001	<.002	<.002	<.003	<.003
	08-31-00	<.003	<.002	<.002	<.002	<.001	<.002	<.002	<.003	<.003
Ri23-04	08-21-00	<.003	<.002	<.002	<.002	<.001	<.002	<.002	<.003	<.003
wibypla	03-13-00	--	--	--	--	--	--	--	--	--
wibyplb	03-13-00	--	--	--	--	--	--	--	--	--
wibypld	03-13-00	--	--	--	--	--	--	--	--	--
	03-13-00	--	--	--	--	--	--	--	--	--

E Estimated value.

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QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL-ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DIAZ-INON D10 SRG WAT FLT PERCENT (91063)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (82677)	EPTC WATER FLTRD 0.7 U GF, REC (82668)
Forest Hills 1	08-16-00	--	--	--	--	--	--	--	--	--
Frankford 2	08-21-00	<.004	<.004	<.002	<.002	108	<.002	<.001	<.017	<.002
	08-21-00	<.004	<.004	<.002	<.002	109	<.002	<.001	<.017	<.002
Georgetown 1	08-23-00	<.004	<.004	<.002	E.004	114	<.002	<.001	<.017	<.002
Nc25-37	09-12-00	<.004	<.004	<.002	E.075	112	<.002	<.001	<.017	<.002
Ng21-03	09-06-00	<.004	<.004	<.002	E.22	114	<.002	<.001	<.017	<.002
Ng25-04	09-06-00	<.004	<.004	<.002	<.002	112	<.002	<.001	<.017	<.002
Ni51-32	08-17-00	<.004	<.004	<.002	E.050	103	<.002	<.001	<.017	<.002
Oc15-11	09-13-00	<.004	<.004	<.002	E.15	112	<.002	<.001	<.017	<.002
Of23-11	07-11-00	--	--	--	--	--	--	--	--	--
Of23-12	07-11-00	--	--	--	--	--	--	--	--	--
Of23-13	07-11-00	--	--	--	--	--	--	--	--	--
Oi25-18	09-13-00	<.004	<.004	<.002	E.002	103	<.002	.047	<.017	<.002
PH-DG-1	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-2	06-13-00	--	--	--	--	--	--	--	--	--
	06-13-00	--	--	--	--	--	--	--	--	--
	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-3	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-5	06-13-00	--	--	--	--	--	--	--	--	--
PH-DZ	06-13-00	--	--	--	--	--	--	--	--	--
PH-UG	06-13-00	--	--	--	--	--	--	--	--	--
Pc33-44	09-12-00	<.004	<.004	<.002	E.016	107	<.002	.105	<.017	<.002
Pe23-185	09-05-00	<.004	<.004	<.002	<.002	117	<.002	<.001	<.017	<.002
	09-05-00	--	--	--	--	--	--	--	--	--
Ph13-07	11-05-99	<.004	<.004	<.002	E.066	106	<.002	<.001	<.017	<.002
Ph13-13	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-14	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-15	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-16	10-04-99	<.004	<.004	<.002	E.11	106	<.002	<.001	<.017	<.002
Ph13-28	11-05-99	<.004	<.004	<.002	E.58	105	<.002	<.001	<.017	<.002
Ph14-13	11-18-99	<.004	<.004	<.002	E.007	87	<.002	<.001	<.017	<.002
Pi31-02	08-17-00	<.004	<.004	<.002	E.065	100	<.002	<.001	<.017	<.002
Qd21-12	08-22-00	<.004	<.004	<.002	E.011	107	<.002	.013	<.017	<.002
Qd52-09	08-22-00	<.004	<.004	<.002	<.002	92	<.002	<.001	<.017	<.002
Rd22-01	08-31-00	<.004	<.004	<.002	<.002	101	<.002	<.001	<.017	<.002
	08-31-00	<.004	<.004	<.002	<.002	103	<.002	<.001	<.017	<.002
Ri23-04	08-21-00	<.004	<.004	<.002	<.002	108	<.002	<.001	<.017	<.002
wibypla	03-13-00	--	--	--	--	--	--	--	--	--
wibyplb	03-13-00	--	--	--	--	--	--	--	--	--
wibypld	03-13-00	--	--	--	--	--	--	--	--	--
	03-13-00	--	--	--	--	--	--	--	--	--

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QUALITY OF GROUND WATER DATA
SUSSEX COUNTY, DELAWARE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	ETHAL-	ETHO-	FONOFOS WATER DISS	GLYPHO-	HCH	LINDANE DIS-	LIN-	MALA-	METHYL
		FLUR- ALIN WAT FLT 0.7 U (UG/L) (82663)	PROP WATER FLTRD 0.7 U (UG/L) (82672)		SATE, WAT FLT 0.7 U (UG/L) (39941)	ALPHA D6 SRG WAT FLT 0.7 U (UG/L) (91065)		URON WATER FLTRD 0.7 U (UG/L) (82666)		THION, DIS- SOLVED (UG/L) (39532)
Forest Hills 1	08-16-00	--	--	--	<5	--	--	--	--	--
Frankford 2	08-21-00	<.004	<.003	<.003	<5	102	<.004	<.002	<.005	<.001
	08-21-00	<.004	<.003	<.003	<5	107	<.004	<.002	<.005	<.001
Georgetown 1	08-23-00	<.004	<.003	<.003	<5	111	<.004	<.002	<.005	<.001
Nc25-37	09-12-00	<.004	<.003	<.003	<5	110	<.004	<.002	<.005	<.001
Ng21-03	09-06-00	<.004	<.003	<.003	<5	107	<.004	<.002	<.005	<.001
Ng25-04	09-06-00	<.004	<.003	<.003	<5	108	<.004	<.002	<.005	<.001
Ni51-32	08-17-00	<.004	<.003	<.003	<5	104	<.004	<.002	<.005	<.001
Oc15-11	09-13-00	<.004	<.003	<.003	<5	110	<.004	<.002	<.005	<.001
Of23-11	07-11-00	--	--	--	--	--	--	--	--	--
Of23-12	07-11-00	--	--	--	--	--	--	--	--	--
Of23-13	07-11-00	--	--	--	--	--	--	--	--	--
Oi25-18	09-13-00	<.004	<.003	<.003	<5	108	E.002	<.002	<.005	<.001
PH-DG-1	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-2	06-13-00	--	--	--	--	--	--	--	--	--
	06-13-00	--	--	--	--	--	--	--	--	--
	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-3	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-5	06-13-00	--	--	--	--	--	--	--	--	--
PH-DZ	06-13-00	--	--	--	--	--	--	--	--	--
PH-UG	06-13-00	--	--	--	--	--	--	--	--	--
Pc33-44	09-12-00	<.004	<.003	<.003	<5	109	<.004	<.002	<.005	<.001
Pe23-185	09-05-00	<.004	<.003	<.003	<5	117	<.004	<.002	<.005	<.001
	09-05-00	--	--	--	--	--	--	--	--	--
Ph13-07	11-05-99	<.004	<.003	<.003	--	97	<.004	<.002	<.005	<.001
Ph13-13	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-14	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-15	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-16	10-04-99	<.004	<.003	<.003	--	95	<.004	<.002	<.005	<.001
Ph13-28	11-05-99	<.004	<.003	<.003	--	93	<.004	<.002	<.005	<.001
Ph14-13	11-18-99	<.004	<.003	<.003	--	96	<.004	<.002	<.005	<.001
Pi31-02	08-17-00	<.004	<.003	<.003	<5	103	<.004	<.002	<.005	<.001
Qd21-12	08-22-00	<.004	<.003	<.003	<5	93	<.004	<.002	<.005	<.001
Qd52-09	08-22-00	<.004	<.003	<.003	<5	77	<.004	<.002	<.005	<.001
Rd22-01	08-31-00	<.004	<.003	<.003	<5	98	<.004	<.002	<.005	<.001
	08-31-00	<.004	<.003	<.003	<5	98	<.004	<.002	<.005	<.001
Ri23-04	08-21-00	<.004	<.003	<.003	<5	103	<.004	<.002	<.005	<.001
wibypla	03-13-00	--	--	--	--	--	--	--	--	--
wibyplb	03-13-00	--	--	--	--	--	--	--	--	--
wibypld	03-13-00	--	--	--	--	--	--	--	--	--
	03-13-00	--	--	--	--	--	--	--	--	--

E Estimated value.

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QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	METHYL PARA- THION WAT FLT 0.7 U	METO- LACHLOR WATER	METRI- BUZIN SENCOR WATER	MOL- INATE WATER FLTRD 0.7 U	NAPROP- AMIDE WATER FLTRD 0.7 U	P, P' DDE	PARA- THION, DIS- SOLVED (UG/L)	PEB- ULATE WATER FILTRD 0.7 U	PENDI- METH- ALIN WAT FLT 0.7 U
		GF, REC (82667)	DISSOLV (39415)	DISSOLV (82630)	GF, REC (82671)	GF, REC (82684)	DISSOLV (34653)	(39542)	GF, REC (82669)	GF, REC (82683)
Forest Hills 1	08-16-00	--	--	--	--	--	--	--	--	--
Frankford 2	08-21-00	<.006	<.002	<.004	<.004	<.003	<.006	<.004	<.004	<.004
	08-21-00	<.006	<.002	<.004	<.004	<.003	<.006	<.004	<.004	<.004
Georgetown 1	08-23-00	<.006	<.002	<.004	<.004	<.003	<.006	<.004	<.004	<.004
Nc25-37	09-12-00	<.006	.012	<.004	<.004	<.003	<.006	<.004	<.004	<.004
Ng21-03	09-06-00	<.006	E.003	<.004	<.004	<.003	<.006	<.004	<.004	<.004
Ng25-04	09-06-00	<.006	<.002	<.004	<.004	<.003	<.006	<.004	<.004	<.004
Ni51-32	08-17-00	<.006	.033	<.004	<.004	<.003	<.006	<.004	<.004	<.004
Oc15-11	09-13-00	<.006	.108	<.004	<.004	<.003	<.006	<.004	<.004	<.004
Of23-11	07-11-00	--	--	--	--	--	--	--	--	--
Of23-12	07-11-00	--	--	--	--	--	--	--	--	--
Of23-13	07-11-00	--	--	--	--	--	--	--	--	--
Oi25-18	09-13-00	<.006	E.002	<.004	<.004	<.003	<.006	<.004	<.004	<.004
PH-DG-1	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-2	06-13-00	--	--	--	--	--	--	--	--	--
	06-13-00	--	--	--	--	--	--	--	--	--
	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-3	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-5	06-13-00	--	--	--	--	--	--	--	--	--
PH-DZ	06-13-00	--	--	--	--	--	--	--	--	--
PH-UG	06-13-00	--	--	--	--	--	--	--	--	--
Pc33-44	09-12-00	<.006	.020	<.004	<.004	<.003	<.006	<.004	<.004	<.004
Pe23-185	09-05-00	<.006	<.002	<.004	<.004	<.003	<.006	<.004	<.004	<.004
	09-05-00	--	--	--	--	--	--	--	--	--
Ph13-07	11-05-99	<.006	.005	<.004	<.004	<.003	<.006	<.004	<.004	<.004
Ph13-13	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-14	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-15	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-16	10-04-99	<.006	.008	<.004	<.004	<.003	<.006	<.004	<.004	<.004
Ph13-28	11-05-99	<.006	.005	<.004	<.004	<.003	<.006	<.004	<.004	<.004
Ph14-13	11-18-99	<.006	.005	<.004	<.004	<.003	<.006	<.004	<.004	<.004
Pi31-02	08-17-00	<.006	.004	<.004	<.004	<.003	<.006	<.004	<.004	<.004
Qd21-12	08-22-00	<.006	.054	<.004	<.004	<.003	<.006	<.004	<.004	<.004
Qd52-09	08-22-00	<.006	<.002	<.004	<.004	<.003	<.006	<.004	<.004	<.004
Rd22-01	08-31-00	<.006	E.001	<.004	<.004	<.003	<.006	<.004	<.004	<.004
	08-31-00	<.006	<.002	<.004	<.004	<.003	<.006	<.004	<.004	<.004
Ri23-04	08-21-00	<.006	<.002	<.004	<.004	<.003	<.006	<.004	<.004	<.004
wibypla	03-13-00	--	--	--	--	--	--	--	--	--
wibyplb	03-13-00	--	--	--	--	--	--	--	--	--
wibypld	03-13-00	--	--	--	--	--	--	--	--	--
	03-13-00	--	--	--	--	--	--	--	--	--

E Estimated value.

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QUALITY OF GROUND WATER DATA
SUSSEX COUNTY, DELAWARE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	PER-	PHORATE	PRO-	PRON-	PROPA-	PRO-	PRO-	SI-	TEBU-
		METHRIN CIS WAT FLT 0.7 U (UG/L) (82687)	WATER FLTRD 0.7 U (UG/L) (82664)	METON, WATER, DISS, REC (UG/L) (04037)	AMIDE WATER FLTRD 0.7 U (UG/L) (82676)	CHLOR, WATER, DISS, REC (UG/L) (04024)	PANIL WATER FLTRD 0.7 U (UG/L) (82679)	PARGITE WATER FLTRD 0.7 U (UG/L) (82685)	MAZINE, WATER, DISS, REC (UG/L) (04035)	THIURON WATER FLTRD 0.7 U (UG/L) (82670)
Forest Hills 1	08-16-00	--	--	--	--	--	--	--	--	--
Frankford 2	08-21-00	<.005	<.002	<.018	<.003	<.007	<.004	<.013	<.005	<.010
	08-21-00	<.005	<.002	<.018	<.003	<.007	<.004	<.013	<.005	<.010
Georgetown 1	08-23-00	<.005	<.002	E.004	<.003	<.007	<.004	<.013	<.005	<.010
Nc25-37	09-12-00	<.005	<.002	E.004	<.003	<.007	<.004	<.013	<.005	<.010
Ng21-03	09-06-00	<.005	<.002	<.018	<.003	<.007	<.004	<.013	<.005	<.010
Ng25-04	09-06-00	<.005	<.002	<.018	<.003	<.007	<.004	<.013	<.005	<.010
Ni51-32	08-17-00	<.005	<.002	E.007	<.003	<.007	<.004	<.013	E.004	<.010
Oc15-11	09-13-00	<.005	<.002	<.018	<.003	<.007	<.004	<.013	<.005	<.010
Of23-11	07-11-00	--	--	--	--	--	--	--	--	--
Of23-12	07-11-00	--	--	--	--	--	--	--	--	--
Of23-13	07-11-00	--	--	--	--	--	--	--	--	--
Oi25-18	09-13-00	<.005	<.002	.149	<.003	<.007	<.004	<.013	.010	<.010
PH-DG-1	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-2	06-13-00	--	--	--	--	--	--	--	--	--
	06-13-00	--	--	--	--	--	--	--	--	--
	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-3	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-5	06-13-00	--	--	--	--	--	--	--	--	--
PH-DZ	06-13-00	--	--	--	--	--	--	--	--	--
PH-UG	06-13-00	--	--	--	--	--	--	--	--	--
Pc33-44	09-12-00	<.005	<.002	.019	<.003	<.007	<.004	<.013	.019	.028
Pe23-185	09-05-00	<.005	<.002	<.018	<.003	<.007	<.004	<.013	<.005	<.010
	09-05-00	--	--	--	--	--	--	--	--	--
Ph13-07	11-05-99	<.005	<.002	<.018	<.003	<.007	<.004	<.013	<.005	<.010
Ph13-13	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-14	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-15	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-16	10-04-99	<.005	<.002	E.013	<.003	<.007	<.004	<.013	.006	<.010
Ph13-28	11-05-99	<.005	<.002	<.018	<.003	<.007	<.004	<.013	<.005	<.010
Ph14-13	11-18-99	<.005	<.002	<.018	<.003	<.007	<.004	<.013	<.005	<.010
Pi31-02	08-17-00	<.005	<.002	<.018	<.003	<.007	<.004	<.013	<.005	<.010
Qd21-12	08-22-00	<.005	<.002	<.018	<.003	<.007	<.004	<.013	.008	<.010
Qd52-09	08-22-00	<.005	<.002	<.018	<.003	<.007	<.004	<.013	<.005	<.010
Rd22-01	08-31-00	<.005	<.002	<.018	<.003	<.007	<.004	<.013	<.005	<.010
	08-31-00	<.005	<.002	<.018	<.003	<.007	<.004	<.013	<.005	<.010
Ri23-04	08-21-00	<.005	<.002	<.018	<.003	<.007	<.004	<.013	<.005	<.010
wibypla	03-13-00	--	--	--	--	--	--	--	--	--
wibyplb	03-13-00	--	--	--	--	--	--	--	--	--
wibypld	03-13-00	--	--	--	--	--	--	--	--	--
	03-13-00	--	--	--	--	--	--	--	--	--

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QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	TER- BACIL WATER FLTRD 0.7 U	TER- BUFOS WATER FLTRD 0.7 U	THIO- BENCARB WATER FLTRD 0.7 U	TRIAL- LATE WATER FLTRD 0.7 U	TRI- FLUR- ALIN WAT FLT 0.7 U	1,1,1- TRI- CHLORO- ETHANE TOTAL (34506)	1,1,2- TRI- CHLORO- ETHANE TOTAL (34511)	1,1-DI- CHLORO- ETHANE TOTAL (34496)	1,1-DI- CHLORO- ETHYL- ENE TOTAL (34501)
		GF, REC (82665)	GF, REC (82675)	GF, REC (82681)	GF, REC (82678)	GF, REC (82661)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)
Forest Hills 1	08-16-00	--	--	--	--	--	<.03	<.06	<.07	<.04
Frankford 2	08-21-00	<.007	<.013	<.002	<.001	<.002	<.03	<.06	.13	<.04
	08-21-00	<.007	<.013	<.002	<.001	<.002	<.03	<.06	.13	<.04
Georgetown 1	08-23-00	<.007	<.013	<.002	<.001	<.002	<.03	<.06	<.07	<.04
Nc25-37	09-12-00	<.007	<.013	<.002	<.001	<.002	E.01	<.06	E.02	<.04
Ng21-03	09-06-00	<.007	<.013	<.002	<.001	<.002	<.03	<.06	<.07	<.04
Ng25-04	09-06-00	<.007	<.013	<.002	<.001	<.002	<.03	<.06	<.07	<.04
Ni51-32	08-17-00	<.007	<.013	<.002	<.001	<.002	<.03	<.06	<.07	<.04
Oc15-11	09-13-00	<.007	<.013	<.002	<.001	<.002	<.03	<.06	<.07	<.04
Of23-11	07-11-00	--	--	--	--	--	--	--	--	--
Of23-12	07-11-00	--	--	--	--	--	--	--	--	--
Of23-13	07-11-00	--	--	--	--	--	--	--	--	--
Oi25-18	09-13-00	<.007	<.013	<.002	<.001	<.002	E.01	<.06	<.07	<.04
PH-DG-1	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-2	06-13-00	--	--	--	--	--	--	--	--	--
	06-13-00	--	--	--	--	--	--	--	--	--
	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-3	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-5	06-13-00	--	--	--	--	--	--	--	--	--
PH-DZ	06-13-00	--	--	--	--	--	--	--	--	--
PH-UG	06-13-00	--	--	--	--	--	--	--	--	--
Pc33-44	09-12-00	<.007	<.013	<.002	<.001	<.002	E.03	<.06	<.07	E.06
Pe23-185	09-05-00	<.007	<.013	<.002	<.001	<.002	<.03	<.06	<.07	<.04
	09-05-00	--	--	--	--	--	--	--	--	--
Ph13-07	11-05-99	<.007	<.013	<.002	<.001	<.002	--	--	--	--
Ph13-13	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-14	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-15	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-16	10-04-99	<.007	<.013	<.002	<.001	<.002	--	--	--	--
Ph13-28	11-05-99	<.007	<.013	<.002	<.001	<.002	--	--	--	--
Ph14-13	11-18-99	<.007	<.013	<.002	<.001	<.002	--	--	--	--
Pi31-02	08-17-00	<.007	<.013	<.002	<.001	<.002	<.03	<.06	<.07	<.04
Qd21-12	08-22-00	<.007	<.013	<.002	<.001	<.002	<.03	<.06	<.07	<.04
Qd52-09	08-22-00	<.007	<.013	<.002	<.001	<.002	<.03	<.06	<.07	<.04
Rd22-01	08-31-00	<.007	<.013	<.002	<.001	<.002	<.03	<.06	.14	E.04
	08-31-00	<.007	<.013	<.002	<.001	<.002	<.03	<.06	.15	E.03
Ri23-04	08-21-00	<.007	<.013	<.002	<.001	<.002	<.03	<.06	<.07	<.04
wibypla	03-13-00	--	--	--	--	--	--	--	--	--
wibyplb	03-13-00	--	--	--	--	--	--	--	--	--
wibypld	03-13-00	--	--	--	--	--	--	--	--	--
	03-13-00	--	--	--	--	--	--	--	--	--

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QUALITY OF GROUND WATER DATA
SUSSEX COUNTY, DELAWARE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	1,1-DI CHLORO- PRO- PENE, WAT, WH TOTAL (UG/L) (77168)	123-TRI CHLORO- PROPANE WATER WHOLE TOTAL (UG/L) (77443)	1,2- DIBROMO ETHANE WATER WHOLE TOTAL (UG/L) (77651)	1,2-DI- CHLORO- ETHANE TOTAL (UG/L) (32103)	1,2-DI- CHLORO- PROPANE TOTAL (UG/L) (34541)	TRANS- 1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546)	2,2-DI CHLORO- PRO- PANE WAT, WH TOTAL (UG/L) (77170)	2BUTENE 4-DI- CHLORO UNFLTRD RECOVER (UG/L) (73547)	2-HEXA- NONE WATER WHOLE TOTAL (UG/L) (77103)
Forest Hills 1	08-16-00	<.03	<.2	<.04	<.1	<.07	<.03	<.05	<.7	<.7
Frankford 2	08-21-00	<.03	<.2	<.04	.1	<.07	<.03	<.05	<.7	<.7
	08-21-00	<.03	<.2	<.04	.1	<.07	<.03	<.05	<.7	<.7
Georgetown 1	08-23-00	<.03	<.2	<.04	<.1	<.07	<.03	<.05	<.7	<.7
Nc25-37	09-12-00	<.03	<.2	<.04	<.1	<.07	<.03	<.05	<.7	<.7
Ng21-03	09-06-00	<.03	<.2	<.04	<.1	<.07	<.03	<.05	<.7	<.7
Ng25-04	09-06-00	<.03	<.2	<.04	<.1	<.07	<.03	<.05	<.7	<.7
Ni51-32	08-17-00	<.03	<.2	<.04	<.1	<.07	<.03	<.05	<.7	<.7
Oc15-11	09-13-00	<.03	<.2	<.04	<.1	<.07	<.03	<.05	<.7	<.7
Of23-11	07-11-00	--	--	--	--	--	--	--	--	--
Of23-12	07-11-00	--	--	--	--	--	--	--	--	--
Of23-13	07-11-00	--	--	--	--	--	--	--	--	--
Oi25-18	09-13-00	<.03	<.2	<.04	<.1	<.07	<.03	<.05	<.7	<.7
PH-DG-1	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-2	06-13-00	--	--	--	--	--	--	--	--	--
	06-13-00	--	--	--	--	--	--	--	--	--
	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-3	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-5	06-13-00	--	--	--	--	--	--	--	--	--
PH-DZ	06-13-00	--	--	--	--	--	--	--	--	--
PH-UG	06-13-00	--	--	--	--	--	--	--	--	--
Pc33-44	09-12-00	<.03	<.2	<.04	<.1	<.07	<.03	<.05	<.7	<.7
Pe23-185	09-05-00	<.03	<.2	<.04	<.1	<.07	<.03	<.05	<.7	<.7
	09-05-00	--	--	--	--	--	--	--	--	--
Ph13-07	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-13	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-14	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-15	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-16	10-04-99	--	--	--	--	--	--	--	--	--
Ph13-28	11-05-99	--	--	--	--	--	--	--	--	--
Ph14-13	11-18-99	--	--	--	--	--	--	--	--	--
Pi31-02	08-17-00	<.03	<.2	<.04	<.1	<.07	<.03	<.05	<.7	<.7
Qd21-12	08-22-00	<.03	<.2	<.04	<.1	E.07	<.03	<.05	<.7	<.7
Qd52-09	08-22-00	<.03	<.2	<.04	<.1	<.07	<.03	<.05	<.7	<.7
Rd22-01	08-31-00	<.03	<.2	<.04	<.1	<.07	<.03	<.05	<.7	<.7
	08-31-00	<.03	<.2	<.04	<.1	<.07	<.03	<.05	<.7	<.7
Ri23-04	08-21-00	<.03	<.2	<.04	<.1	<.07	<.03	<.05	<.7	<.7
wibypla	03-13-00	--	--	--	--	--	--	--	--	--
wibyplb	03-13-00	--	--	--	--	--	--	--	--	--
wibypld	03-13-00	--	--	--	--	--	--	--	--	--
	03-13-00	--	--	--	--	--	--	--	--	--

E Estimated value.

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QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	ACRYLO- NITRILE TOTAL (UG/L) (34215)	1,2,3- TRI- CHLORO BENZENE WAT, WH REC (UG/L) (77613)	BENZENE 123-TRI METHYL- WATER UNFLTRD REC (UG/L) (77221)	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC (UG/L) (34551)	BENZENE 124-TRI METHYL UNFILT RECOVER (UG/L) (77222)	BENZENE 135-TRI METHYL WATER UNFLTRD REC (UG/L) (77226)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566)	BENZENE 14BRFL- SURROG VOC REC PERCENT (99834)
Forest Hills 1	08-16-00	<7	<1	<.3	<.1	<.2	<.06	<.04	<.05	115
Frankford 2	08-21-00	<7	<1	<.3	<.1	<.2	<.06	<.04	<.05	92
	08-21-00	<7	<1	<.3	<.1	<.2	<.06	<.04	<.05	91
Georgetown 1	08-23-00	<7	<1	<.3	<.1	<.2	<.06	<.04	<.05	117
Nc25-37	09-12-00	E6	<1	<.3	<.1	<.2	<.06	<.04	<.05	87
Ng21-03	09-06-00	<7	<1	<.3	<.1	<.2	<.06	<.04	<.05	121
Ng25-04	09-06-00	<7	<1	<.3	<.1	<.2	<.06	<.04	<.05	128
Ni51-32	08-17-00	<7	<1	<.3	<.1	<.2	<.06	<.04	<.05	92
Oc15-11	09-13-00	<7	<1	<.3	<.1	<.2	<.06	<.04	<.05	101
Of23-11	07-11-00	--	--	--	--	--	--	--	--	--
Of23-12	07-11-00	--	--	--	--	--	--	--	--	--
Of23-13	07-11-00	--	--	--	--	--	--	--	--	--
Oi25-18	09-13-00	<7	<1	<.3	<.1	<.2	<.06	<.04	<.05	104
PH-DG-1	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-2	06-13-00	--	--	--	--	--	--	--	--	--
	06-13-00	--	--	--	--	--	--	--	--	--
	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-3	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-5	06-13-00	--	--	--	--	--	--	--	--	--
PH-DZ	06-13-00	--	--	--	--	--	--	--	--	--
PH-UG	06-13-00	--	--	--	--	--	--	--	--	--
Pc33-44	09-12-00	<7	<1	<.3	<.1	<.2	<.06	<.04	<.05	105
Pe23-185	09-05-00	<7	<1	<.3	<.1	<.2	<.06	<.04	<.05	117
	09-05-00	--	--	--	--	--	--	--	--	--
Ph13-07	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-13	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-14	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-15	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-16	10-04-99	--	--	--	--	--	--	--	--	--
Ph13-28	11-05-99	--	--	--	--	--	--	--	--	--
Ph14-13	11-18-99	--	--	--	--	--	--	--	--	--
Pi31-02	08-17-00	<7	<1	<.3	<.1	<.2	<.06	<.04	<.05	92
Qd21-12	08-22-00	<7	<1	<.3	<.1	<.2	<.06	<.04	<.05	90
Qd52-09	08-22-00	<7	<1	<.3	<.1	<.2	<.06	<.04	<.05	90
Rd22-01	08-31-00	<7	<1	<.3	<.1	<.2	<.06	<.04	<.05	118
	08-31-00	<7	<1	<.3	<.1	<.2	<.06	<.04	<.05	116
Ri23-04	08-21-00	<7	<1	<.3	<.1	<.2	<.06	<.04	<.05	91
wibypla	03-13-00	--	--	--	--	--	--	--	--	--
wibyplb	03-13-00	--	--	--	--	--	--	--	--	--
wibypld	03-13-00	--	--	--	--	--	--	--	--	--
	03-13-00	--	--	--	--	--	--	--	--	--

E Estimated value.

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA
SUSSEX COUNTY, DELAWARE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	BENZENE	ISO-	BENZENE	BENZENE	BENZENE	BENZENE	BENZENE	BENZENE	BROMO-
		1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571)	PROPYL- BENZENE WATER WHOLE REC (UG/L) (77223)	N-BUTYL WATER UNFLTRD REC (UG/L) (77342)	N-PROPY WATER UNFLTRD REC (UG/L) (77224)	O-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34536)	SEC BUTYL- WATER UNFLTRD REC (UG/L) (77350)	TERT- BUTYL- WATER UNFLTRD REC (UG/L) (77353)	BENZENE TOTAL (UG/L) (34030)	BENZENE TOTAL (UG/L) (81555)
Forest Hills 1	08-16-00	<.05	<.03	<.2	<.04	<.05	<.03	<.06	<.04	<.04
Frankford 2	08-21-00	<.05	E.01	<.2	<.04	<.05	<.03	<.06	<.04	<.04
	08-21-00	<.05	E.01	<.2	<.04	<.05	<.03	<.06	<.04	<.04
Georgetown 1	08-23-00	<.05	<.03	<.2	<.04	E.03	.24	E.04	E.04	<.04
Nc25-37	09-12-00	<.05	<.03	<.2	<.04	<.05	<.03	<.06	E.01	<.04
Ng21-03	09-06-00	<.05	<.03	<.2	<.04	<.05	<.03	<.06	<.04	<.04
Ng25-04	09-06-00	<.05	<.03	<.2	<.04	<.05	<.03	<.06	<.04	<.04
Ni51-32	08-17-00	<.05	<.03	<.2	<.04	<.05	<.03	<.06	<.04	<.04
Oc15-11	09-13-00	<.05	<.03	<.2	<.04	<.05	<.03	<.06	<.04	<.04
Of23-11	07-11-00	--	--	--	--	--	--	--	--	--
Of23-12	07-11-00	--	--	--	--	--	--	--	--	--
Of23-13	07-11-00	--	--	--	--	--	--	--	--	--
Oi25-18	09-13-00	<.05	<.03	<.2	<.04	<.05	<.03	<.06	<.04	<.04
PH-DG-1	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-2	06-13-00	--	--	--	--	--	--	--	--	--
	06-13-00	--	--	--	--	--	--	--	--	--
	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-3	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-5	06-13-00	--	--	--	--	--	--	--	--	--
PH-DZ	06-13-00	--	--	--	--	--	--	--	--	--
PH-UG	06-13-00	--	--	--	--	--	--	--	--	--
Pc33-44	09-12-00	<.05	<.03	<.2	<.04	<.05	<.03	<.06	<.04	<.04
Pe23-185	09-05-00	<.05	<.03	<.2	<.04	<.05	<.03	<.06	<.04	<.04
	09-05-00	--	--	--	--	--	--	--	--	--
Ph13-07	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-13	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-14	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-15	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-16	10-04-99	--	--	--	--	--	--	--	--	--
Ph13-28	11-05-99	--	--	--	--	--	--	--	--	--
Ph14-13	11-18-99	--	--	--	--	--	--	--	--	--
Pi31-02	08-17-00	<.05	<.03	<.2	<.04	<.05	<.03	<.06	<.04	<.04
Qd21-12	08-22-00	<.05	<.03	<.2	<.04	<.05	<.03	<.06	<.04	<.04
Qd52-09	08-22-00	E.02	<.03	<.2	<.04	<.05	<.03	<.06	<.04	<.04
Rd22-01	08-31-00	.51	<.03	<.2	<.04	1.47	E.01	<.06	E.02	<.04
	08-31-00	.54	E.01	<.2	<.04	1.55	E.01	<.06	E.02	<.04
Ri23-04	08-21-00	<.05	<.03	<.2	<.04	<.05	<.03	<.06	<.04	<.04
wibypla	03-13-00	--	--	--	--	--	--	--	--	--
wibyplb	03-13-00	--	--	--	--	--	--	--	--	--
wibypld	03-13-00	--	--	--	--	--	--	--	--	--
	03-13-00	--	--	--	--	--	--	--	--	--

E Estimated value.

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	BROMO- ETHENE WATER UNFLTRD	BROMO- FORM TOTAL	CARBON DI- SULFIDE WATER WHOLE TOTAL	CARBON TETRA- CHLO- RIDE TOTAL	CHLORO- BENZENE TOTAL	CHLORO- DI- BROMO- METHANE TOTAL	CHLORO- ETHANE TOTAL	CHLORO- FORM TOTAL	CIS-1,2 -DI- CHLORO- ETHENE WATER TOTAL
		RECOVER (UG/L) (50002)	(UG/L) (32104)	(UG/L) (77041)	(UG/L) (32102)	(UG/L) (34301)	(UG/L) (32105)	(UG/L) (34311)	(UG/L) (32106)	(UG/L) (77093)
Forest Hills 1	08-16-00	<.1	<.06	<.07	<.06	<.03	<.2	<.1	.17	<.04
Frankford 2	08-21-00	<.1	<.06	<.07	<.06	<.03	<.2	<.1	.19	<.04
	08-21-00	<.1	<.06	<.07	<.06	<.03	<.2	<.1	.19	<.04
Georgetown 1	08-23-00	<.1	<.06	<.07	<.06	E.08	<.2	<.1	<.05	E.06
Nc25-37	09-12-00	<.1	E.05	E.03	E.03	<.03	E.1	<.1	.54	E.02
Ng21-03	09-06-00	<.1	<.06	<.07	<.06	<.03	<.2	<.1	E.04	<.04
Ng25-04	09-06-00	<.1	<.06	<.07	<.06	<.03	<.2	<.1	.62	<.04
Ni51-32	08-17-00	<.1	<.06	<.07	<.06	<.03	<.2	<.1	.12	<.04
Oc15-11	09-13-00	<.1	<.06	<.07	<.06	<.03	<.2	<.1	E.03	<.04
Of23-11	07-11-00	--	--	--	--	--	--	--	--	--
Of23-12	07-11-00	--	--	--	--	--	--	--	--	--
Of23-13	07-11-00	--	--	--	--	--	--	--	--	--
Oi25-18	09-13-00	<.1	<.06	<.07	<.06	<.03	<.2	<.1	E.09	<.04
PH-DG-1	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-2	06-13-00	--	--	--	--	--	--	--	--	--
	06-13-00	--	--	--	--	--	--	--	--	--
	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-3	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-5	06-13-00	--	--	--	--	--	--	--	--	--
PH-DZ	06-13-00	--	--	--	--	--	--	--	--	--
PH-UG	06-13-00	--	--	--	--	--	--	--	--	--
Pc33-44	09-12-00	<.1	<.06	<.07	<.06	<.03	<.2	<.1	.12	<.04
Pe23-185	09-05-00	<.1	<.06	E.04	<.06	<.03	<.2	<.1	E.04	<.04
	09-05-00	--	--	--	--	--	--	--	--	--
Ph13-07	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-13	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-14	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-15	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-16	10-04-99	--	--	--	--	--	--	--	--	--
Ph13-28	11-05-99	--	--	--	--	--	--	--	--	--
Ph14-13	11-18-99	--	--	--	--	--	--	--	--	--
Pi31-02	08-17-00	<.1	<.06	<.07	<.06	<.03	<.2	<.1	.29	<.04
Qd21-12	08-22-00	<.1	<.06	<.07	<.06	<.03	<.2	<.1	E.05	<.04
Qd52-09	08-22-00	<.1	<.06	<.07	<.06	<.03	<.2	<.1	.27	<.04
Rd22-01	08-31-00	<.1	<.06	E.03	<.06	.49	<.2	<.1	E.04	<.04
	08-31-00	<.1	<.06	E.03	<.06	.51	<.2	<.1	E.04	E.01
Ri23-04	08-21-00	<.1	<.06	<.07	<.06	<.03	<.2	<.1	<.05	<.04
wibypla	03-13-00	--	--	--	--	--	--	--	--	--
wibyplb	03-13-00	--	--	--	--	--	--	--	--	--
wibypld	03-13-00	--	--	--	--	--	--	--	--	--
	03-13-00	--	--	--	--	--	--	--	--	--

E Estimated value.

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	CIS 1,3-DI- CHLORO- PROPENE TOTAL (UG/L) (34704)	DIBROMO CHLORO- PROPANE WATER WHOLE TOT. REC (UG/L) (82625)	DI- BROMO- METHANE WATER WHOLE RECOVER (UG/L) (30217)	BROMO- DI- CHLORO- METHANE TOTAL (UG/L) (32101)	DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L) (34668)	DI-ISO- PROPYL- ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHANE, 1112- TETRA- CHLORO- WAT UNF REC (UG/L) (77562)	ETHANE, 1,1,2,2 TETRA- CHLORO- WAT UNF REC (UG/L) (34516)	ETHANE 12DICL SURROG VOC REC PERCENT (99832)
Forest Hills 1	08-16-00	<.09	<.2	<.05	<.05	<.3	<.1	<.03	<.09	94
Frankford 2	08-21-00	<.09	<.2	<.05	<.05	<.3	.5	<.03	<.09	105
	08-21-00	<.09	<.2	<.05	<.05	<.3	.4	<.03	<.09	106
Georgetown 1	08-23-00	<.09	<.2	<.05	<.05	EL.6	E.1	<.03	<.09	108
Nc25-37	09-12-00	<.09	<.2	<.05	.13	<.3	<.1	<.03	<.09	88
Ng21-03	09-06-00	<.09	<.2	<.05	<.05	<.3	<.1	<.03	<.09	98
Ng25-04	09-06-00	<.09	<.2	<.05	<.05	<.3	<.1	<.03	<.09	101
Ni51-32	08-17-00	<.09	<.2	<.05	<.05	<.3	<.1	<.03	<.09	103
Oc15-11	09-13-00	<.09	<.2	<.05	<.05	<.3	<.1	<.03	<.09	96
Of23-11	07-11-00	--	--	--	--	--	--	--	--	--
Of23-12	07-11-00	--	--	--	--	--	--	--	--	--
Of23-13	07-11-00	--	--	--	--	--	--	--	--	--
Oi25-18	09-13-00	<.09	<.2	<.05	<.05	<.3	<.1	<.03	<.09	100
PH-DG-1	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-2	06-13-00	--	--	--	--	--	--	--	--	--
	06-13-00	--	--	--	--	--	--	--	--	--
	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-3	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-5	06-13-00	--	--	--	--	--	--	--	--	--
PH-DZ	06-13-00	--	--	--	--	--	--	--	--	--
PH-UG	06-13-00	--	--	--	--	--	--	--	--	--
Pc33-44	09-12-00	<.09	<.2	<.05	<.05	<.3	<.1	<.03	<.09	98
Pe23-185	09-05-00	<.09	<.2	<.05	<.05	<.3	<.1	<.03	<.09	96
	09-05-00	--	--	--	--	--	--	--	--	--
Ph13-07	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-13	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-14	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-15	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-16	10-04-99	--	--	--	--	--	--	--	--	--
Ph13-28	11-05-99	--	--	--	--	--	--	--	--	--
Ph14-13	11-18-99	--	--	--	--	--	--	--	--	--
Pi31-02	08-17-00	<.09	<.2	<.05	<.05	<.3	<.1	<.03	<.09	102
Qd21-12	08-22-00	<.09	<.2	<.05	<.05	<.3	<.1	<.03	<.09	105
Qd52-09	08-22-00	<.09	<.2	<.05	<.05	<.3	<.1	<.03	<.09	105
Rd22-01	08-31-00	<.09	<.2	<.05	<.05	<.3	<.1	<.03	<.09	113
	08-31-00	<.09	<.2	<.05	<.05	<.3	<.1	<.03	<.09	109
Ri23-04	08-21-00	<.09	<.2	<.05	<.05	<.3	<.1	<.03	<.09	100
wibypla	03-13-00	--	--	--	--	--	--	--	--	--
wibyplb	03-13-00	--	--	--	--	--	--	--	--	--
wibypld	03-13-00	--	--	--	--	--	--	--	--	--
	03-13-00	--	--	--	--	--	--	--	--	--

E Estimated value.

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	ETHANE	ETHER	ETHER	ETHER	ETHYL- BENZENE	FREON-	FURAN,	HEXA-	ISO-
		UNFLTRD RECOVER (34396)	UNFLTRD RECOVER (81576)	TERT- BUTYL ETHYL UNFLTRD RECOVER (50004)	TERT- PENTYL METHYL UNFLTRD RECOVER (50005)		113 WATER UNFLTRD REC (77652)	TETRA- HYDRO- WATER UNFLTRD RECOVER (81607)	CHLORO- BUT- ADIENE TOTAL (39702)	DURENE WATER UNFLTRD RECOVER (50000)
Forest Hills 1	08-16-00	<.2	<.2	<.05	<.1	<.03	E.03	<2	<.1	<.2
Frankford 2	08-21-00	<.2	<.2	<.05	<.1	<.03	<.06	<2	<.1	<.2
	08-21-00	<.2	<.2	<.05	<.1	<.03	<.06	<2	<.1	<.2
Georgetown 1	08-23-00	<.2	<.2	<.05	<.1	<.03	<.06	<2	<.1	<.2
Nc25-37	09-12-00	<.2	<.2	<.05	<.1	<.03	<.06	<2	<.1	<.2
Ng21-03	09-06-00	<.2	<.2	<.05	<.1	<.03	E.04	<2	<.1	<.2
Ng25-04	09-06-00	<.2	<.2	<.05	<.1	<.03	<.06	<2	<.1	<.2
Ni51-32	08-17-00	<.2	<.2	<.05	<.1	<.03	<.06	<2	<.1	<.2
Oc15-11	09-13-00	<.2	<.2	<.05	<.1	<.03	<.06	<2	<.1	<.2
Of23-11	07-11-00	--	--	--	--	--	--	--	--	--
Of23-12	07-11-00	--	--	--	--	--	--	--	--	--
Of23-13	07-11-00	--	--	--	--	--	--	--	--	--
Oi25-18	09-13-00	<.2	<.2	<.05	.3	<.03	<.06	<2	<.1	<.2
PH-DG-1	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-2	06-13-00	--	--	--	--	--	--	--	--	--
	06-13-00	--	--	--	--	--	--	--	--	--
	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-3	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-5	06-13-00	--	--	--	--	--	--	--	--	--
PH-DZ	06-13-00	--	--	--	--	--	--	--	--	--
PH-UG	06-13-00	--	--	--	--	--	--	--	--	--
Pc33-44	09-12-00	<.2	<.2	<.05	M	<.03	.14	<2	<.1	<.2
Pe23-185	09-05-00	<.2	<.2	<.05	<.1	<.03	<.06	<2	<.1	<.2
	09-05-00	--	--	--	--	--	--	--	--	--
Ph13-07	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-13	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-14	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-15	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-16	10-04-99	--	--	--	--	--	--	--	--	--
Ph13-28	11-05-99	--	--	--	--	--	--	--	--	--
Ph14-13	11-18-99	--	--	--	--	--	--	--	--	--
Pi31-02	08-17-00	<.2	<.2	<.05	<.1	<.03	<.06	<2	<.1	<.2
Qd21-12	08-22-00	<.2	<.2	<.05	M	<.03	<.06	<2	<.1	<.2
Qd52-09	08-22-00	<.2	<.2	<.05	<.1	<.03	<.06	<2	<.1	<.2
Rd22-01	08-31-00	<.2	<.2	<.05	<.1	<.03	<.06	10	<.1	<.2
	08-31-00	<.2	<.2	<.05	<.1	<.03	<.06	<2	<.1	<.2
Ri23-04	08-21-00	<.2	<.2	<.05	<.1	<.03	E.02	<2	<.1	<.2
wibypla	03-13-00	--	--	--	--	--	--	--	--	--
wibyplb	03-13-00	--	--	--	--	--	--	--	--	--
wibypld	03-13-00	--	--	--	--	--	--	--	--	--
	03-13-00	--	--	--	--	--	--	--	--	--

E Estimated value.

< Actual value is known to be less than the value shown.

M Presence of material verified but not quantified.

QUALITY OF GROUND WATER DATA
SUSSEX COUNTY, DELAWARE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	METHAC-	METHAC-	METH-	METHANE	METHYL	METHYL	METHYL	METHYL- BROMIDE (34413)	METHYL- CHLO- RIDE TOTAL (34418)
		RYLATE- ETHYL- WATER UNFLTRD RECOVER (UG/L) (73570)	RYLATE- METHYL WATER UNFLTRD RECOVER (UG/L) (81597)	ACRYLO- NITRITE WATER UNFLTRD RECOVER (UG/L) (81593)	BROMO- CHLORO- WAT UNFLTRD REC (UG/L) (77297)	ACRY- LATE WATER UNFLTRD RECOVER (UG/L) (49991)	IODIDE WATER UNFLTRD RECOVER (UG/L) (77424)	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)		
Forest Hills 1	08-16-00	<.2	<.3	<.6	<.04	<1	<.1	<.2	<.3	<.5
Frankford 2	08-21-00	<.2	<.3	<.6	<.04	<1	<.1	<.2	<.3	<.5
	08-21-00	<.2	<.3	<.6	<.04	<1	<.1	<.2	<.3	<.5
Georgetown 1	08-23-00	<.2	<.3	<.6	<.04	<1	<.1	<.2	<.3	E.1
Nc25-37	09-12-00	<.2	<.3	<.6	<.04	<1	<.1	M	<.3	<.5
Ng21-03	09-06-00	<.2	<.3	<.6	<.04	<1	<.1	<.2	<.3	<.5
Ng25-04	09-06-00	<.2	<.3	<.6	<.04	<1	<.1	<.2	<.3	<.5
Ni51-32	08-17-00	<.2	<.3	<.6	<.04	<1	<.1	.4	<.3	<.5
Oc15-11	09-13-00	<.2	<.3	<.6	<.04	<1	<.1	<.2	<.3	M
Of23-11	07-11-00	--	--	--	--	--	--	--	--	--
Of23-12	07-11-00	--	--	--	--	--	--	--	--	--
Of23-13	07-11-00	--	--	--	--	--	--	--	--	--
Oi25-18	09-13-00	<.2	<.3	<.6	<.04	<1	<.1	2.5	<.3	M
PH-DG-1	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-2	06-13-00	--	--	--	--	--	--	--	--	--
	06-13-00	--	--	--	--	--	--	--	--	--
	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-3	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-5	06-13-00	--	--	--	--	--	--	--	--	--
PH-DZ	06-13-00	--	--	--	--	--	--	--	--	--
PH-UG	06-13-00	--	--	--	--	--	--	--	--	--
Pc33-44	09-12-00	<.2	<.3	<.6	<.04	<1	<.1	.2	<.3	M
Pe23-185	09-05-00	<.2	<.3	<.6	<.04	<1	<.1	<.2	<.3	M
	09-05-00	--	--	--	--	--	--	--	--	--
Ph13-07	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-13	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-14	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-15	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-16	10-04-99	--	--	--	--	--	--	--	--	--
Ph13-28	11-05-99	--	--	--	--	--	--	--	--	--
Ph14-13	11-18-99	--	--	--	--	--	--	--	--	--
Pi31-02	08-17-00	<.2	<.3	<.6	<.04	<1	<.1	<.2	<.3	<.5
Qd21-12	08-22-00	<.2	<.3	<.6	<.04	<1	<.1	.7	<.3	<.5
Qd52-09	08-22-00	<.2	<.3	<.6	<.04	<1	<.1	<.2	<.3	<.5
Rd22-01	08-31-00	<.2	<.3	<.6	<.04	<1	<.1	.4	<.3	M
	08-31-00	<.2	<.3	<.6	<.04	<1	<.1	.4	<.3	M
Ri23-04	08-21-00	<.2	<.3	<.6	<.04	<1	<.1	<.2	<.3	<.5
wibypla	03-13-00	--	--	--	--	--	--	--	--	--
wibyplb	03-13-00	--	--	--	--	--	--	--	--	--
wibypld	03-13-00	--	--	--	--	--	--	--	--	--
	03-13-00	--	--	--	--	--	--	--	--	--

E Estimated value.

< Actual value is known to be less than the value shown.

M Presence of material verified but not quantified.

QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	METHYL- ENE CHLO- RIDE TOTAL (UG/L) (34423)	METHYL- ETHYL- KETONE WATER WHOLE TOTAL (UG/L) (81595)	METHYL ISO- BUTYL KETONE WAT. WH. TOTAL (UG/L) (78133)	META/ PARA- XYLENE WATER UNFLTRD REC (UG/L) (85795)	NAPHTH- ALENE TOTAL (UG/L) (34696)	O- CHLORO- TOLUENE WATER TOTAL (UG/L) (77275)	O- XYLENE WATER WHOLE TOTAL (UG/L) (77135)	P-ISO- PROPYL- TOLUENE WATER WHOLE REC (UG/L) (77356)	1234- TETRA METHYL BENZENE UNFLTRD REC (UG/L) (49999)
Forest Hills 1	08-16-00	<.4	<2	<.4	<.06	<.2	<.04	<.04	<.07	<.2
Frankford 2	08-21-00	<.4	<2	<.4	<.06	<.2	<.04	<.04	<.07	<.2
	08-21-00	<.4	<2	<.4	<.06	<.2	<.04	<.04	<.07	<.2
Georgetown 1	08-23-00	<.4	<2	<.4	<.06	<.2	<.04	<.04	<.07	<.2
Nc25-37	09-12-00	M	<2	<.4	<.06	<.2	<.04	<.04	<.07	<.2
Ng21-03	09-06-00	<.4	<2	<.4	<.06	<.2	<.04	<.04	<.07	<.2
Ng25-04	09-06-00	<.4	<2	<.4	<.06	<.2	<.04	<.04	<.07	<.2
Ni51-32	08-17-00	<.4	<2	<.4	<.06	<.2	<.04	<.04	<.07	<.2
Oc15-11	09-13-00	<.4	<2	<.4	<.06	<.2	<.04	<.04	E.01	<.2
Of23-11	07-11-00	--	--	--	--	--	--	--	--	--
Of23-12	07-11-00	--	--	--	--	--	--	--	--	--
Of23-13	07-11-00	--	--	--	--	--	--	--	--	--
Oi25-18	09-13-00	<.4	<2	<.4	<.06	<.2	<.04	<.04	<.07	<.2
PH-DG-1	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-2	06-13-00	--	--	--	--	--	--	--	--	--
	06-13-00	--	--	--	--	--	--	--	--	--
	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-3	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-5	06-13-00	--	--	--	--	--	--	--	--	--
PH-DZ	06-13-00	--	--	--	--	--	--	--	--	--
PH-UG	06-13-00	--	--	--	--	--	--	--	--	--
Pc33-44	09-12-00	<.4	<2	<.4	<.06	<.2	<.04	<.04	<.07	<.2
Pe23-185	09-05-00	<.4	<2	<.4	<.06	<.2	<.04	<.04	<.07	<.2
	09-05-00	--	--	--	--	--	--	--	--	--
Ph13-07	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-13	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-14	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-15	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-16	10-04-99	--	--	--	--	--	--	--	--	--
Ph13-28	11-05-99	--	--	--	--	--	--	--	--	--
Ph14-13	11-18-99	--	--	--	--	--	--	--	--	--
Pi31-02	08-17-00	<.4	<2	<.4	<.06	<.2	<.04	<.04	<.07	<.2
Qd21-12	08-22-00	<.4	<2	<.4	<.06	<.2	<.04	<.04	<.07	<.2
Qd52-09	08-22-00	<.4	<2	<.4	<.06	<.2	<.04	<.04	<.07	<.2
Rd22-01	08-31-00	<.4	<2	<.4	<.06	<.2	<.04	<.04	<.07	<.2
	08-31-00	<.4	<2	<.4	<.06	<.2	<.04	<.04	<.07	<.2
Ri23-04	08-21-00	<.4	<2	<.4	<.06	<.2	<.04	<.04	<.07	<.2
wibypla	03-13-00	--	--	--	--	--	--	--	--	--
wibyplb	03-13-00	--	--	--	--	--	--	--	--	--
wibypld	03-13-00	--	--	--	--	--	--	--	--	--
	03-13-00	--	--	--	--	--	--	--	--	--

E Estimated value.

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M Presence of material verified but not quantified.

QUALITY OF GROUND WATER DATA
SUSSEX COUNTY, DELAWARE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	PROPENE			TOLUENE			TOLUENE P-CHLOR WATER UNFLTRD REC (77277)	TOLUENE TOTAL (34010)	TRANS- 1,3-DI- CHLORO- PROPENE TOTAL (34699)
		1,3-DI- CHLORO- PROPANE WAT. WH TOTAL (77173)	3- CHLORO- WATER UNFLTRD RECOVER (78109)	STYRENE TOTAL (77128)	TETRA- CHLORO- ETHYL- ENE TOTAL (34475)	D8 SURROG VOC UNFLTRD REC (99833)	TOLUENE O-ETHYL WATER UNFLTRD RECOVER (77220)			
Forest Hills 1	08-16-00	<.1	<.2	<.04	M	101	<.06	<.06	E.01	<.09
Frankford 2	08-21-00	<.1	<.2	<.04	<.1	102	<.06	<.06	E.02	<.09
	08-21-00	<.1	<.2	<.04	<.1	102	<.06	<.06	E.02	<.09
Georgetown 1	08-23-00	<.1	<.2	<.04	1.0	99	<.06	<.06	<.05	<.09
Nc25-37	09-12-00	<.1	<.2	<.04	.4	81	<.06	<.06	<.05	<.09
Ng21-03	09-06-00	<.1	<.2	<.04	<.1	100	<.06	<.06	<.05	<.09
Ng25-04	09-06-00	<.1	<.2	<.04	<.1	102	<.06	<.06	<.05	<.09
Ni51-32	08-17-00	<.1	<.2	<.04	.2	102	<.06	<.06	E.01	<.09
Oc15-11	09-13-00	<.1	<.2	<.04	M	99	<.06	<.06	<.05	<.09
Of23-11	07-11-00	--	--	--	--	--	--	--	--	--
Of23-12	07-11-00	--	--	--	--	--	--	--	--	--
Of23-13	07-11-00	--	--	--	--	--	--	--	--	--
Oi25-18	09-13-00	<.1	<.2	<.04	M	99	<.06	<.06	<.05	<.09
PH-DG-1	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-2	06-13-00	--	--	--	--	--	--	--	--	--
	06-13-00	--	--	--	--	--	--	--	--	--
	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-3	06-13-00	--	--	--	--	--	--	--	--	--
PH-DG-5	06-13-00	--	--	--	--	--	--	--	--	--
PH-DZ	06-13-00	--	--	--	--	--	--	--	--	--
PH-UG	06-13-00	--	--	--	--	--	--	--	--	--
Pc33-44	09-12-00	<.1	<.2	<.04	E.1	99	<.06	<.06	<.05	<.09
Pe23-185	09-05-00	<.1	<.2	<.04	<.1	100	<.06	<.06	<.05	<.09
	09-05-00	--	--	--	--	--	--	--	--	--
Ph13-07	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-13	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-14	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-15	11-05-99	--	--	--	--	--	--	--	--	--
Ph13-16	10-04-99	--	--	--	--	--	--	--	--	--
Ph13-28	11-05-99	--	--	--	--	--	--	--	--	--
Ph14-13	11-18-99	--	--	--	--	--	--	--	--	--
Pi31-02	08-17-00	<.1	<.2	<.04	M	102	<.06	<.06	<.05	<.09
Qd21-12	08-22-00	<.1	<.2	<.04	<.1	103	<.06	<.06	<.05	<.09
Qd52-09	08-22-00	<.1	<.2	<.04	<.1	104	<.06	<.06	<.05	<.09
Rd22-01	08-31-00	<.1	<.2	<.04	M	102	<.06	<.06	<.05	<.09
	08-31-00	<.1	<.2	<.04	M	103	<.06	<.06	<.05	<.09
Ri23-04	08-21-00	<.1	<.2	<.04	<.1	101	<.06	<.06	<.05	<.09
wibypla	03-13-00	--	--	--	--	--	--	--	--	--
wibyplb	03-13-00	--	--	--	--	--	--	--	--	--
wibypld	03-13-00	--	--	--	--	--	--	--	--	--
	03-13-00	--	--	--	--	--	--	--	--	--

E Estimated value.

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M Presence of material verified but not quantified.

QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	TRI-CHLORO-ETHYLENE (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE (UG/L) (34488)	VINYL CHLORIDE (UG/L) (39175)	ALPHA COUNT, 2 SIGMA WAT DIS AS (PCI/L) (75987)	ALPHA RADIO. WATER DISS AS (PCI/L) (04126)	BETA, 2 SIGMA WATER, DISS, AS (PCI/L) (75989)	GROSS BETA, DIS-SOLVED AS (PCI/L) (03515)	RADIUM 226, DIS-SOLVED (PCI/L) (09503)
Forest Hills 1	08-16-00	<.04	<.09	<.1	2.4	<3.00	3.9	<4.00	--
Frankford 2	08-21-00	<.04	<.09	<.1	--	--	--	--	--
	08-21-00	<.04	<.09	<.1	--	--	--	--	--
Georgetown 1	08-23-00	.17	<.09	<.1	--	--	--	--	--
Nc25-37	09-12-00	<.04	<.09	<.1	--	--	--	--	--
Ng21-03	09-06-00	<.04	<.09	<.1	--	--	--	--	--
Ng25-04	09-06-00	<.04	<.09	<.1	--	--	--	--	--
Ni51-32	08-17-00	E.10	<.09	<.1	--	--	--	--	--
Oc15-11	09-13-00	<.04	<.09	<.1	--	--	--	--	--
Of23-11	07-11-00	--	--	--	--	--	--	--	--
Of23-12	07-11-00	--	--	--	--	--	--	--	--
Of23-13	07-11-00	--	--	--	--	--	--	--	--
Oi25-18	09-13-00	<.04	<.09	<.1	--	--	--	--	--
PH-DG-1	06-13-00	--	--	--	--	--	--	--	--
PH-DG-2	06-13-00	--	--	--	--	--	--	--	--
	06-13-00	--	--	--	--	--	--	--	--
	06-13-00	--	--	--	--	--	--	--	--
PH-DG-3	06-13-00	--	--	--	--	--	--	--	--
PH-DG-5	06-13-00	--	--	--	--	--	--	--	--
PH-DZ	06-13-00	--	--	--	--	--	--	--	--
PH-UG	06-13-00	--	--	--	--	--	--	--	--
Pc33-44	09-12-00	E.05	E.01	<.1	4.1	10.6	4.5	7.60	1.29
Pe23-185	09-05-00	<.04	<.09	<.1	2.8	<3.00	4.1	<4.00	<1.00
	09-05-00	--	--	--	2.1	<3.00	4.1	<4.00	<1.00
Ph13-07	11-05-99	--	--	--	--	--	--	--	--
Ph13-13	11-05-99	--	--	--	--	--	--	--	--
Ph13-14	11-05-99	--	--	--	--	--	--	--	--
Ph13-15	11-05-99	--	--	--	--	--	--	--	--
Ph13-16	10-04-99	--	--	--	--	--	--	--	--
Ph13-28	11-05-99	--	--	--	--	--	--	--	--
Ph14-13	11-18-99	--	--	--	--	--	--	--	--
Pi31-02	08-17-00	<.04	<.09	<.1	--	--	--	--	--
Qd21-12	08-22-00	<.04	<.09	<.1	--	--	--	--	--
Qd52-09	08-22-00	<.04	<.09	<.1	1.6	<3.00	3.9	<4.00	--
Rd22-01	08-31-00	E.03	<.09	<.1	--	--	--	--	--
	08-31-00	E.02	<.09	<.1	--	--	--	--	--
Ri23-04	08-21-00	<.04	<.09	<.1	--	--	--	--	--
wibypla	03-13-00	--	--	--	--	--	--	--	--
wibyp1b	03-13-00	--	--	--	--	--	--	--	--
wibyp1d	03-13-00	--	--	--	--	--	--	--	--
	03-13-00	--	--	--	--	--	--	--	--

E Estimated value.
 < Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

SUSSEX COUNTY, DELAWARE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	RADIUM 228					RADON 222 TOTAL (82303)	RN-222 2 SIGMA WATER, WHOLE, TOTAL, (76002)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)
		DIS- SOLVED (PCI/L AS RA-228) (81366)	RA-224 2 SIGMA WATER FLTRD (PCI/L) (50834)	RA-224 WATER FLTRD (PCI/L) (50833)	RA-226 2 SIGMA WATER, DISS, (PCI/L) (76001)	RA-228 2 SIGMA WATER, DISS, (PCI/L) (76000)			
Forest Hills 1	08-16-00	<1.00	--	--	--	.47	220	21	--
Frankford 2	08-21-00	--	--	--	--	--	--	--	--
	08-21-00	--	--	--	--	--	--	--	--
Georgetown 1	08-23-00	--	--	--	--	--	--	--	--
Nc25-37	09-12-00	--	--	--	--	--	--	--	--
Ng21-03	09-06-00	--	--	--	--	--	--	--	--
Ng25-04	09-06-00	--	--	--	--	--	--	--	--
Ni51-32	08-17-00	--	--	--	--	--	--	--	--
Oc15-11	09-13-00	--	--	--	--	--	--	--	--
Of23-11	07-11-00	--	--	--	--	--	--	--	--
Of23-12	07-11-00	--	--	--	--	--	--	--	--
Of23-13	07-11-00	--	--	--	--	--	--	--	--
Oi25-18	09-13-00	--	--	--	--	--	--	--	--
PH-DG-1	06-13-00	--	--	--	--	--	--	--	<1
PH-DG-2	06-13-00	--	--	--	--	--	--	--	<1
	06-13-00	--	--	--	--	--	--	--	<1
	06-13-00	--	--	--	--	--	--	--	<1
PH-DG-3	06-13-00	--	--	--	--	--	--	--	<1
PH-DG-5	06-13-00	--	--	--	--	--	--	--	--
PH-DZ	06-13-00	--	--	--	--	--	--	--	<1
PH-UG	06-13-00	--	--	--	--	--	--	--	<1
Pc33-44	09-12-00	--	.56	1.94	.34	--	155	20	--
Pe23-185	09-05-00	<1.00	.15	<1.00	.11	.37	79.0	16	--
	09-05-00	<1.00	.10	<1.00	.12	.42	80.0	16	--
Ph13-07	11-05-99	--	--	--	--	--	--	--	--
Ph13-13	11-05-99	--	--	--	--	--	--	--	--
Ph13-14	11-05-99	--	--	--	--	--	--	--	--
Ph13-15	11-05-99	--	--	--	--	--	--	--	--
Ph13-16	10-04-99	--	--	--	--	--	--	--	--
Ph13-28	11-05-99	--	--	--	--	--	--	--	--
Ph14-13	11-18-99	--	--	--	--	--	--	--	--
Pi31-02	08-17-00	--	--	--	--	--	--	--	--
Qd21-12	08-22-00	--	--	--	--	--	--	--	--
Qd52-09	08-22-00	<1.00	--	--	--	.34	221	18	--
Rd22-01	08-31-00	--	--	--	--	--	--	--	--
	08-31-00	--	--	--	--	--	--	--	--
Ri23-04	08-21-00	--	--	--	--	--	--	--	--
wibyp1a	03-13-00	--	--	--	--	--	--	--	--
wibyp1b	03-13-00	--	--	--	--	--	--	--	--
wibyp1d	03-13-00	--	--	--	--	--	--	--	--
	03-13-00	--	--	--	--	--	--	--	--

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

ALLEGHANY COUNTY, MARYLAND

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	TIME	STATION NUMBER	GEO-LOGIC UNIT	SITE	SAM-PLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	DEPTH TO BOTTOM OF SAMPLE INTER-VAL (FT) (72016)
AL Ae 36	08-01-00	1200	394143078421301	344RMNY	GW	8030	700	40.00	40
AL Ai 26	07-26-00	1300	394311078245501	341JNGS	GW	8030	1250	83.00	83
AL Cb 8	08-01-00	1100	393342078570901	321CNMG	GW	8030	2000	86.00	86
AL Ce 4	07-26-00	0900	393438078420601	347ORSK	SP	4010	710	--	--

DATE	DEPTH TO TOP OF SAMPLE INTER-VAL (FT) (72015)	PUMP OR FLOW PERIOD TO SAM-PLING (MIN) (72004)	FLOW RATE (G/M) (00059)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L CAC03) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	
AL Ae 36	08-01-00	29	62	4.0	.5	6.9	634	13.6	280	88.8
AL Ai 26	07-26-00	30	42	4.0	.3	6.2	167	12.3	67	12.4
AL Cb 8	08-01-00	34	22	4.0	7.9	7.3	391	11.1	200	51.7
AL Ce 4	07-26-00	--	--	E50.0	8.9	7.2	186	12.9	92	32.5

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SI02) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	
AL Ae 36	08-01-00	13.7	1.0	17.2	237	289	39.5	<.1	18.3	47.8
AL Ai 26	07-26-00	8.64	.7	6.8	83	101	1.9	.1	22.7	2.5
AL Cb 8	08-01-00	17.7	1.3	.6	204	250	2.9	<.1	6.4	10.6
AL Ce 4	07-26-00	2.64	.6	1.7	85	104	.6	<.1	11.7	9.2

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHATE, ORTHO-DIS-SOLVED (MG/L AS PO4) (00660)	PHOS-PHORUS, ORTHO-DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS, ORTHO-DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL SOLVED (MG/L AS C) (00680)	CARBON DIOXIDE, DIS-SOLVED (MG/L AS CO2) (00405)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	
AL Ae 36	08-01-00	.190	<.050	<.010	--	<.050	<.010	1.3	56	383
AL Ai 26	07-26-00	<.020	<.050	<.010	--	E.042	<.010	1.6	112	102
AL Cb 8	08-01-00	<.020	<.050	<.010	--	<.050	<.010	1.6	20	220
AL Ce 4	07-26-00	<.020	.181	<.010	.202	.068	.066	.43	11	112

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	
AL Ae 36	08-01-00	370	E.8	<1	720	1000	<1	1060	1070	<.2
AL Ai 26	07-26-00	110	5.0	<1	3030	3660	<1	1190	1240	<.2
AL Cb 8	08-01-00	214	<.9	<1	<10	340	<1	3	91	<.2
AL Ce 4	07-26-00	111	<.9	<1	<10	<20	<1	<2	<3	<.2

Geologic Unit (aquifer): 321CNMG - Conemaugh Formation
 341JNGS - Jennings Formation
 344RMNY - Romney Formation
 347ORSK - Orsikany Group

Site Type: GW - Ground Water
 SP - Spring

Sampling Method: 4010 - Thief sampler
 8030 - Grab sample at water-supply tap

E Estimated value.
 < Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

ALLEGHANY COUNTY, MARYLAND--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	ACETO-	ALA-	ALPHA-	AMETRYN	ATRA-	BRO-	BUTA-	BUTYL-	CAR-
		CHLOR, WATER, FLTRD REC (49260)	CHLOR, WATER, DISS, REC (46342)	HCH, D6 SUR SCD 1379 WTR, FLTRD, REC (90505)	WATER, DISS, REC (38401)	ZINE, WATER, DISS, REC (39632)	MACIL, WATER, DISS, REC (04029)	CHLOR, WATER, DISS, REC (04026)	ATE, WATER, DISS, REC (04028)	BOXIN, WATER, DISS, REC (04027)
AL Ae 36	08-01-00	<.050	<.050	86	<.05	<.050	<.05	<.05	<.050	<.05
AL Ai 26	07-26-00	<.050	<.050	84	<.05	<.050	<.05	<.05	<.050	<.05
AL Cb 8	08-01-00	<.050	<.050	83	<.05	<.050	<.05	<.05	<.050	<.05
AL Ce 4	07-26-00	<.050	<.050	82	<.05	<.050	<.05	<.05	<.050	<.05

WELL NUMBER	DATE	CYANA-	SI-	DEETHYL	DEISO-	DIAZI-	DIPHEN-	HEXA-	METO-
		ZINE, WATER, DISS, REC (04041)	CLOATE, WATER, DISS, REC (04031)	ATRA- ZINE, WATER, DISS, REC (04040)	PROPYL ATRAZIN, WATER, DISS, REC (04038)	NON D10 SUR SCD 1379 WTR, FLTRD, PERCENT (90670)	AMID, WATER, DISS, REC (04033)	ZINONE, WATER, DISS, REC (04025)	METO- LACHLOR WATER, DISS, REC (39415)
AL Ae 36	08-01-00	<.200	<.05	<.050	<.05	84	<.05	<.05	<.050
AL Ai 26	07-26-00	<.200	<.05	<.050	<.05	80	<.05	<.05	<.050
AL Cb 8	08-01-00	<.200	<.05	<.050	<.05	80	<.05	<.05	<.050
AL Ce 4	07-26-00	<.200	<.05	<.050	<.05	79	<.05	<.05	<.050

WELL NUMBER	DATE	METRI-	PRO-	PRO-	PROPA-	PROP-	SI-	SIMA-	TER-
		BUZIN SENCOR WATER, DISSOLV REC (82630)	METON, WATER, DISS, REC (04037)	METRYN, WATER, DISS, REC (04036)	CHLOR, WATER, DISS, REC (04024)	AZINE WATER DISS, REC (38535)	MAZINE, WATER, DISS, REC (04035)	TRYN, WATER, DISS, REC (04030)	BACIL, WATER, DISS, REC (04032)
AL Ae 36	08-01-00	<.050	<.050	<.05	<.050	<.05	<.050	<.05	<.05
AL Ai 26	07-26-00	<.050	<.050	<.05	<.050	<.05	<.050	<.05	<.05
AL Cb 8	08-01-00	<.050	<.050	<.05	<.050	<.05	<.050	<.05	<.05
AL Ce 4	07-26-00	<.050	<.050	<.05	<.050	<.05	<.050	<.05	<.05

WELL NUMBER	DATE	TRI-	VERNO-	XYLENE	BENZENE	BENZENE	ETHANE	METHYL
		FLUR-ALIN, WATER, DISS, REC (04023)	LATE, WATER, DISS, REC (04034)	XYLENE WATER UNFLTRD REC (81551)	14BRFL-SURROG VOC UNFLTRD REC (99834)	TOTAL BENZENE REC (34030)	12DICL SURROG VOC UNFLTRD REC (99832)	TERT-BUTYL ETHER WAT UNF REC (78032)
AL Ae 36	08-01-00	<.05	<.05	<.2	108	<.20	111	<.20
AL Ai 26	07-26-00	<.05	<.05	<.2	104	<.20	110	<.20
AL Cb 8	08-01-00	<.05	<.05	<.2	111	<.20	114	<.20
AL Ce 4	07-26-00	<.05	<.05	<.2	103	<.20	109	<.20

WELL NUMBER	DATE	META/	O-	TOLUENE	ALPHA	ALPHA	BETA,	GROSS
		PARA-XYLENE WATER UNFLTRD REC (85795)	XYLENE WATER WHOLE TOTAL (77135)	D8 SURROG VOC UNFLTRD REC (99833)	COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L) (75987)	RADIO. WATER DISS AS TH-230 (PCI/L) (04126)	2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	BETA, DIS- SOLVED (PCI/L) AS CS-137 (03515)
AL Ae 36	08-01-00	<.20	<.20	102	<.20	2.4	<3.00	4.2
AL Ai 26	07-26-00	<.20	<.20	101	<.20	2.2	<3.00	3.8
AL Cb 8	08-01-00	<.20	<.20	102	<.20	1.8	<3.00	4.3
AL Ce 4	07-26-00	<.20	<.20	100	<.20	1.8	<3.00	3.8

E Estimated value.
 < Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

ANNE ARUNDEL COUNTY, MARYLAND

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	TIME	STATION NUMBER	GEO-LOGIC UNIT	SITE	SAM-PLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)
AA Dd 61	08-01-00	1345	385531076391301	125AQUI	GW	4040	122	--
AA Ed 58	08-16-00	1345	385009076353601	125AQUI	GW	4040	147	--
AA Ed 59	08-01-00	1510	385157076370001	125AQUI	GW	4040	153	--
AA Ed 60	08-01-00	1430	385353076350201	125AQUI	GW	4040	100	--
AA Ed 62	08-16-00	1245	385232076394601	125AQUI	GW	4040	86.0	--
AA Ee 95	08-01-00	1230	385039076330901	125AQUI	GW	4040	10.0	--
AA Ee 93	08-23-00	1230	385101076312301	125AQUI	GW	4040	10.0	--
AA Ef 40	08-16-00	1530	385054076293901	125AQUI	GW	4040	5.0	--
AA Fc 32	08-01-00	1050	384703076421001	125AQUI	GW	4040	44.0	--
AA Fd 58	08-04-00	1425	384652076372101	125AQUI	GW	4040	110	--
AA Fd 60	08-23-00	1330	384910076383301	125AQUI	GW	4040	170	--
AA Fe 57	08-23-00	1045	384717076325701	125AQUI	GW	4040	10.0	--
AA Fe 59	08-04-00	1045	384958076315701	125AQUI	GW	4040	5.0	--
AA Fe 60	09-07-00	1500	384917076305802	125AQUI	GW	4040	7.0	23.50
AA Fe 63	08-04-00	1135	384736076342801	125AQUI	GW	4040	30.0	--
AA Fe 71	08-04-00	1000	384730076314101	125AQUI	GW	4040	6.0	--
AA Fe 82	08-16-00	1445	384859076300801	125AQUI	GW	4040	5.0	--
AA Fe 92	09-02-00	1515	384644076331201	125AQUI	GW	4040	9.0	35.20
AA Fe 93	08-29-00	1530	384644076331202	211MGTY	GW	4040	9.0	19.33
AA Ge 15	08-04-00	1325	384338076315401	125AQUI	GW	4040	10.0	--

DATE	DEPTH OF WELL, TOTAL (FEET) (72008)	DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT) (72016)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT) (72015)	PUMP OR FLOW PERIOD TO SAM-PLING (MIN) (72004)	FLOW RATE (G/M) (00059)	PH WATER WHOLE FIELD (STAND-ARD) (UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	
AA Dd 61	08-01-00	105.00	105	100	20	10.0	7.6	274	16.2
AA Ed 58	08-16-00	245.00	245	238	20	10.0	7.5	515	17.3
AA Ed 59	08-01-00	270.00	270	260	20	10.0	7.5	365	16.3
AA Ed 60	08-01-00	225.00	225	215	20	10.0	7.3	313	16.2
AA Ed 62	08-16-00	135.00	135	128	20	10.0	7.5	249	14.6
AA Ee 95	08-01-00	132.00	132	125	20	10.0	7.6	514	16.4
AA Ee 93	08-23-00	195.00	195	188	20	10.0	7.8	295	15.3
AA Ef 40	08-16-00	172.00	172	165	20	10.0	7.7	384	15.7
AA Fc 32	08-01-00	159.00	159	149	20	10.0	7.7	272	15.8
AA Fd 58	08-04-00	340.00	340	320	20	10.0	8.0	290	16.5
AA Fd 60	08-23-00	350.00	350	340	20	10.0	7.7	346	16.2
AA Fe 57	08-23-00	210.00	210	200	20	30.0	7.2	617	15.3
AA Fe 59	08-04-00	130.00	130	120	20	10.0	7.9	345	15.9
AA Fe 60	09-07-00	205.00	200	160	300	90.0	7.6	302	14.7
AA Fe 63	08-04-00	187.00	187	180	20	10.0	7.9	313	16.2
AA Fe 71	08-04-00	172.00	172	165	20	10.0	7.9	289	15.8
AA Fe 82	08-16-00	210.00	210	190	20	10.0	7.8	306	15.6
AA Fe 92	09-02-00	205.00	200	170	435	91.0	7.7	286	16.1
AA Fe 93	08-29-00	470.00	464	429	420	102	7.1	300	18.1
AA Ge 15	08-04-00	290.00	290	280	20	10.0	8.0	290	18.5

Geologic Unit (aquifer): 125AQUI - Aquia Formation
211MGTY - Magothy Formation

Site Type: GW - Ground Water

Sampling Method: 4040 - Submersible pump

QUALITY OF GROUND WATER DATA

ANNE ARUNDEL COUNTY, MARYLAND--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)
AA Dd 61	08-01-00	--	.05	<.01	E.1	64.6	2.7	.1	49.5
AA Ed 58	08-16-00	270	82.8	15.3	7.5	4.4	3.9	.1	22.5
AA Ed 59	08-01-00	180	58.6	8.16	3.9	2.5	1.9	<.1	27.0
AA Ed 60	08-01-00	150	50.7	5.89	3.0	2.7	1.9	.1	40.9
AA Ed 62	08-16-00	120	45.6	1.32	3.1	1.8	1.7	<.1	18.2
AA Ee 95	08-01-00	M	.14	.02	2.4	120	29.5	.1	23.8
AA Ee 93	08-23-00	140	44.7	5.93	4.8	2.4	.6	.2	23.7
AA Ef 40	08-16-00	190	59.1	9.78	6.6	6.1	2.5	.1	24.5
AA Fc 32	08-01-00	130	38.7	7.71	5.4	4.2	.7	.2	15.4
AA Fd 58	08-04-00	130	36.8	8.32	5.6	3.7	.9	.2	14.8
AA Fd 60	08-23-00	--	.07	<.01	E.1	81.4	1.4	.1	19.8
AA Fe 57	08-23-00	300	86.5	20.4	7.7	16.7	16.1	.1	23.1
AA Fe 59	08-04-00	150	47.9	8.05	5.4	6.0	6.0	.2	19.9
AA Fe 60	09-07-00	140	44.3	7.82	5.6	2.9	.7	.2	19.9
AA Fe 63	08-04-00	140	42.0	9.18	5.8	3.5	1.2	.2	17.1
AA Fe 71	08-04-00	130	40.4	7.57	5.2	3.8	1.0	.2	20.4
AA Fe 82	08-16-00	140	44.3	8.20	5.7	3.9	.8	.2	21.4
AA Fe 92	09-02-00	140	41.6	9.64	6.0	3.5	1.0	.3	17.3
AA Fe 93	08-29-00	130	39.9	6.36	2.3	1.7	1.2	.2	9.3
AA Ge 15	08-04-00	120	33.9	9.52	8.1	3.4	1.1	.3	16.0

WELL NUMBER	DATE	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)
AA Dd 61	08-01-00	17.6	<.050	214	--	E.5	.03	10	40
AA Ed 58	08-16-00	80.6	<.050	364	348	<.9	.03	460	600
AA Ed 59	08-01-00	24.2	<.050	243	234	<.9	.03	830	920
AA Ed 60	08-01-00	20.2	<.050	221	214	<.9	.04	1070	1250
AA Ed 62	08-16-00	2.8	<.050	157	151	<.9	<.01	970	1170
AA Ee 95	08-01-00	28.5	<.050	342	330	E.6	.11	<10	<20
AA Ee 93	08-23-00	54.5	<.050	204	196	<.9	.02	250	280
AA Ef 40	08-16-00	45.7	<.050	265	256	E.6	.02	700	810
AA Fc 32	08-01-00	11.4	<.050	170	168	E.7	.01	230	280
AA Fd 58	08-04-00	22.8	<.050	175	170	E.5	.01	190	270
AA Fd 60	08-23-00	49.3	<.050	234	--	<.9	.02	<10	<20
AA Fe 57	08-23-00	104	<.050	439	416	1.4	.07	2060	2150
AA Fe 59	08-04-00	39.4	<.050	223	215	E.5	.03	500	580
AA Fe 60	09-07-00	51.3	<.050	210	199	1.1	.03	460	490
AA Fe 63	08-04-00	33.2	<.050	195	192	E.6	.02	360	400
AA Fe 71	08-04-00	32.4	<.050	190	184	<.9	.01	310	380
AA Fe 82	08-16-00	42.1	<.050	204	201	.9	.02	400	520
AA Fe 92	09-02-00	29.3	<.050	179	185	<.9	.02	450	450
AA Fe 93	08-29-00	37.0	<.050	184	170	<.9	.06	3600	4280
AA Ge 15	08-04-00	8.2	<.050	165	165	<.9	.01	150	200

E Estimated value.

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

ANNE ARUNDEL COUNTY, MARYLAND--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L) (75987)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS BETA, DIS- SOLVED AS CS-137) (03515)
AA Dd 61	08-01-00	<2	<3	6.6	--	--	--	--
AA Ed 58	08-16-00	16	17	13	--	--	--	--
AA Ed 59	08-01-00	10	10	12	--	--	--	--
AA Ed 60	08-01-00	10	11	13	--	--	--	--
AA Ed 62	08-16-00	16	16	7.9	--	--	--	--
AA Ee 95	08-01-00	<2	<3	11	--	--	--	--
AA Ee 93	08-23-00	43	45	2.7	--	--	--	--
AA Ef 40	08-16-00	5	6	7.1	--	--	--	--
AA Fc 32	08-01-00	16	17	5.3	--	--	--	--
AA Fd 58	08-04-00	16	14	2.2	--	--	--	--
AA Fd 60	08-23-00	<2	<3	4.7	--	--	--	--
AA Fe 57	08-23-00	57	59	28	--	--	--	--
AA Fe 59	08-04-00	14	15	3.6	--	--	--	--
AA Fe 60	09-07-00	21	19	4.8	.73	<3.00	1.8	6.85
AA Fe 63	08-04-00	14	14	3.0	--	--	--	--
AA Fe 71	08-04-00	5	E2	3.1	--	--	--	--
AA Fe 82	08-16-00	10	12	3.9	--	--	--	--
AA Fe 92	09-02-00	6	6	4.7	2.9	<3.00	4.5	4.00
AA Fe 93	08-29-00	55	63	18	3.1	3.00	4.2	<4.00
AA Ge 15	08-04-00	E2	<3	3.0	--	--	--	--

E Estimated value.

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

BALTIMORE COUNTY, MARYLAND

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	TIME	STATION NUMBER	SAMPLE TYPE	GEO- LOGIC UNIT	SITE	SAM- PLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)
BA Ad 150	09-18-00	1430	394249076391401	ENVIRONMENTAL	300PRTB	GW	8030	820
BA Bc 276	08-21-00	1230	393539076395701	ENVIRONMENTAL	370LCRV	GW	8030	600
BA Be 39	09-19-00	1230	393757076364501	ENVIRONMENTAL	370LCRV	GW	8030	600
BA Cb 97	07-24-00	1000	393243076481901	ENVIRONMENTAL	300PLGV	GW	8030	590
BA Cb 145	06-21-00	1400	393010076500501	ENVIRONMENTAL	300PNRN	GW	8030	720
BA Cc 167	08-08-00	1400	393115076422001	ENVIRONMENTAL	400BLMR	GW	8030	450
BA Cd 242	08-16-00	1230	393315076394001	ENVIRONMENTAL	400BLMR	GW	8030	460
BA Cd 243	08-16-00	1330	393315076394002	ENVIRONMENTAL	400BLMR	GW	8030	460
BA Cd 244	08-23-00	1415	393443076365201	ENVIRONMENTAL	400BLMR	GW	8030	300
BA Ce 317	06-13-00	1320	393015076343001	ENVIRONMENTAL	370LCRV	GW	8030	680
BA Ce 318	07-19-00	1315	393030076323001	ENVIRONMENTAL	370LCRV	GW	8030	600
BA Da 54	08-07-00	1300	392605076514501	ENVIRONMENTAL	377SKVL	GW	8030	580
BA Dc 454	05-03-00	1045	392504076435601	ENVIRONMENTAL	370LCRV	GW	8030	480
BA Dc 455	05-01-00	1255	392508076433901	ENVIRONMENTAL	370LCRV	GW	8030	540
BA Dc 456	05-01-00	1230	392509076433601	ENVIRONMENTAL	370LCRV	GW	8030	540
BA Dc 457	05-09-00	1050	392628076425301	ENVIRONMENTAL	370LCRV	GW	8030	670
BA Dc 458	05-30-00	1000	392948076411501	ENVIRONMENTAL	300CCKV	GW	8030	370
BA Dc 459	05-30-00	1300	392924076404701	ENVIRONMENTAL	300CCKV	GW	8030	380
BA Dc 460	06-13-00	1700	392942076412501	ENVIRONMENTAL	300CCKV	GW	8030	370
BA Dc 461	06-29-00	1330	392815076423001	ENVIRONMENTAL	370LCRV	GW	8030	660
BA De 643	07-18-00	1115	392810076320501	ENVIRONMENTAL	370LCRV	GW	8030	490
BA De 644	08-30-00	1415	392748076321101	ENVIRONMENTAL	370LCRV	GW	8030	500
BA De 645	08-30-00	1200	392556076303001	ENVIRONMENTAL	400BLMR	GW	8030	500
BA Dg 118	04-25-00	1245	392607076240601	ENVIRONMENTAL	300JMSR	GW	8030	100
BA Dg 119	05-10-00	1100	392657076230301	ENVIRONMENTAL	300JMSR	GW	8030	110
BA Dg 120	05-08-00	1200	392632076245301	ENVIRONMENTAL	300JMSR	GW	8030	300
	05-08-00	1201		REPLICATE	300JMSR	GW	8030	300
BA Ea 92	04-10-00	1715	392341076521801	ENVIRONMENTAL	377SKVL	GW	8030	540
BA Ea 96	09-20-00	1115	392347076513701	ENVIRONMENTAL	377SKVL	GW	8030	600
BA Eb 292	04-10-00	1130	392052076464801	ENVIRONMENTAL	300MWSG	GW	8030	485
BA Fb 82	04-11-00	1200	391507076455601	ENVIRONMENTAL	300MWSG	GW	8030	100
	04-11-00	1201		REPLICATE	300MWSG	GW	8030	100

Geologic Unit (aquifer): 300CCKV - Cockeysville Marble
300JMSR - James Run Formation
300MWSG - Mount Washington Amphibolite
300PLGV - Pleasant Grove Schist
300PNRN - Piney Run Formation
300PRTB - Prettyboy Schist
370LCRV - Loch Raven Schist
377SKVL - Sykesville Formation
400BLMR - Baltimore Gneiss

Site Type: GW - Ground Water

Sampling Method: 8030 - Grab sample at water-supply tap

QUALITY OF GROUND WATER DATA

BALTIMORE COUNTY, MARYLAND--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	DEPTH OF WELL, TOTAL (FEET) (72008)	DEPTH TO BOTTOM OF SAMPLE INTER-VAL (FT) (72016)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT) (72015)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	FLOW RATE (G/M) (00059)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)
BA Ad 150	09-18-00	125.00	125	42	19	2.8	--	5.8	5.2	708
BA Bc 276	08-21-00	350.00	350	62	20	3.5	--	8.9	5.4	60
BA Be 39	09-19-00	300.00	300	80	20	4.2	--	2.9	5.7	145
BA Cb 97	07-24-00	142.00	142	50	--	4.0	--	9.2	6.0	223
BA Cb 145	06-21-00	125.00	125	77	--	2.5	--	6.0	6.1	306
BA Cc 167	08-08-00	250.00	250	30	--	2.0	--	7.8	6.0	--
BA Cd 242	08-16-00	225.00	225	24	20	2.5	--	3.2	6.9	264
BA Cd 243	08-16-00	400.00	400	34	20	7.0	--	2.9	6.4	187
BA Cd 244	08-23-00	175.00	175	39	20	4.5	--	7.4	5.7	315
BA Ce 317	06-13-00	200.00	200	36	--	3.5	--	8.4	5.5	1540
BA Ce 318	07-19-00	250.00	250	24	--	3.0	--	9.4	6.6	29
BA Da 54	08-07-00	250.00	250	60	--	3.5	--	1.3	--	136
BA Dc 454	05-03-00	100.00	100	69	--	3.0	85	8.9	6.5	172
BA Dc 455	05-01-00	525.00	525	50	--	2.0	64	6.6	6.1	403
BA Dc 456	05-01-00	250.00	250	25	--	2.5	65	6.7	6.2	410
BA Dc 457	05-09-00	308.00	308	66	--	4.0	77	7.9	5.7	50
BA Dc 458	05-30-00	250.00	250	45	--	4.0	--	7.3	7.7	430
BA Dc 459	05-30-00	300.00	300	64	--	4.0	75	7.8	8.3	145
BA Dc 460	06-13-00	223.00	223	50	--	4.0	--	9.2	7.8	468
BA Dc 461	06-29-00	180.00	180	--	--	3.0	--	7.6	5.7	90
BA De 643	07-18-00	250.00	250	46	--	4.0	--	1.5	6.8	421
BA De 644	08-30-00	294.00	294	20	20	4.0	--	8.2	5.6	134
BA De 645	08-30-00	150.00	150	20	20	1.2	--	6.1	5.3	120
BA Dg 118	04-25-00	125.00	125	34	--	2.8	26	2.7	6.2	217
BA Dg 119	05-10-00	200.00	200	--	--	4.0	70	7.3	5.8	356
BA Dg 120	05-08-00	185.00	185	47	--	3.5	48	4.8	6.0	260
	05-08-00	185.00	185	47	--	--	--	--	--	--
BA Ea 92	04-10-00	420.00	420	44	--	2.5	71	7.2	6.8	190
BA Ea 96	09-20-00	500.00	500	70	20	3.0	--	3.8	6.5	409
BA Eb 292	04-10-00	150.00	150	58	--	3.5	70	7.3	6.2	193
BA Fb 82	04-11-00	200.00	200	120	--	3.5	27	2.8	6.9	1480
	04-11-00	200.00	200	120	--	--	--	--	--	--

QUALITY OF GROUND WATER DATA

BALTIMORE COUNTY, MARYLAND--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	TEMPER-	TEMPER-	HARD-	CALCIUM	MAGNE-	POTAS-	SODIUM,	ANC	ANC
		ATURE AIR (DEG C) (00020)	ATURE WATER (DEG C) (00010)	NESS TOTAL (MG/L CACO3) (00900)	DIS- SOLVED (MG/L AS CA) (00915)	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SIUM, DIS- SOLVED (MG/L AS K) (00935)	DIS- SOLVED (MG/L AS NA) (00930)	WATER UNFLTRD IT MG/L AS CACO3 (00419)	BICAR- BONATE IT MG/L AS HCO3 (00450)
BA Ad 150	09-18-00	23.0	14.0	97	18.4	12.5	7.3	78.8	9	11
BA Bc 276	08-21-00	20.0	14.5	16	2.25	2.57	1.5	2.5	7	9
BA Be 39	09-19-00	18.5	13.5	47	13.3	3.26	1.4	7.7	52	63
BA Cb 97	07-24-00	19.0	14.0	67	15.8	6.70	1.3	9.0	14	17
BA Cb 145	06-21-00	26.0	13.0	89	23.2	7.44	3.4	16.5	42	51
BA Cc 167	08-08-00	34.0	18.0	100	23.5	10.3	3.1	6.5	32	39
BA Cd 242	08-16-00	28.0	15.5	110	35.1	6.55	2.3	10.0	90	110
BA Cd 243	08-16-00	28.0	13.4	120	36.5	6.60	2.3	10.0	100	122
BA Cd 244	08-23-00	23.0	13.5	110	25.7	9.97	5.3	15.7	72	88
BA Ce 317	06-13-00	19.0	16.5	210	44.1	23.8	7.4	206	8	10
BA Ce 318	07-19-00	21.0	13.5	7	1.27	.84	1.0	2.2	8	10
BA Da 54	08-07-00	31.0	13.0	43	7.69	5.76	2.6	6.7	--	--
BA Dc 454	05-03-00	21.0	13.0	67	17.9	5.40	2.6	5.3	58	71
BA Dc 455	05-01-00	19.0	13.5	140	32.7	13.6	4.1	11.1	35	43
BA Dc 456	05-01-00	19.0	13.5	140	32.6	13.6	4.0	11.2	34	41
BA Dc 457	05-09-00	28.5	14.5	12	2.13	1.66	1.3	3.5	8	10
BA Dc 458	05-30-00	14.0	14.0	210	63.2	12.5	1.2	4.5	164	200
BA Dc 459	05-30-00	16.0	13.0	67	16.9	5.94	1.5	1.8	64	78
BA Dc 460	06-13-00	21.0	14.0	210	44.2	23.7	2.5	1.8	215	262
BA Dc 461	06-29-00	25.0	13.5	17	3.26	2.05	1.5	9.2	14	17
BA De 643	07-18-00	31.0	15.0	120	27.0	13.7	6.1	13.6	41	50
BA De 644	08-30-00	25.0	13.5	37	8.62	3.86	2.1	7.3	24	29
BA De 645	08-30-00	21.0	13.0	57	13.8	5.41	2.5	12.3	19	23
BA Dg 118	04-25-00	10.0	15.0	74	15.2	8.73	3.1	6.2	78	95
BA Dg 119	05-10-00	26.0	13.5	77	19.5	6.75	2.1	33.1	34	41
BA Dg 120	05-08-00	29.0	15.0	83	20.1	7.95	1.2	14.6	50	61
	05-08-00	--	--	83	20.1	7.95	1.2	14.6	--	--
BA Ea 92	04-10-00	15.0	14.0	73	12.1	10.4	2.8	2.9	52	63
BA Ea 96	09-20-00	22.0	14.0	170	30.2	22.4	1.8	7.6	84	102
BA Eb 292	04-10-00	9.5	13.5	81	12.6	12.2	.3	3.2	54	66
BA Fb 82	04-11-00	10.0	15.0	510	142	37.8	6.5	63.1	213	260
	04-11-00	--	--	510	141	37.3	4.8	67.1	--	--

QUALITY OF GROUND WATER DATA

BALTIMORE COUNTY, MARYLAND--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, TOTAL (MG/L AS N) (00600)
BA Ad 150	09-18-00	158	27.3	<.10	E.10	<.020	7.66	<.010	--	--
BA Bc 276	08-21-00	5.4	.6	<.10	<.10	<.020	2.39	<.010	--	--
BA Be 39	09-19-00	5.4	1.5	<.10	<.10	<.020	1.84	<.010	--	--
BA Cb 97	07-24-00	28.2	15.1	E.10	<.10	<.020	5.00	<.010	--	--
BA Cb 145	06-21-00	60.4	1.6	<.10	<.10	<.020	2.17	<.010	--	--
BA Cc 167	08-08-00	34.4	10.7	<.10	<.10	<.020	6.35	<.010	--	--
BA Cd 242	08-16-00	18.0	21.9	<.10	<.10	<.020	.190	<.010	--	--
BA Cd 243	08-16-00	17.5	22.0	<.10	.18	<.020	.141	<.010	--	.32
BA Cd 244	08-23-00	16.0	31.8	<.10	E.10	<.020	4.94	<.010	--	--
BA Ce 317	06-13-00	486	15.1	E.10	E.10	<.020	1.16	<.010	--	--
BA Ce 318	07-19-00	2.5	<.3	<.10	E.10	<.020	.975	<.010	--	--
BA Da 54	08-07-00	6.0	10.1	<.10	E.10	<.020	2.70	.025	2.68	--
BA Dc 454	05-03-00	10.1	1.5	<.10	E.10	<.020	1.09	<.010	--	--
BA Dc 455	05-01-00	88.4	8.5	<.10	<.10	<.020	.944	<.010	--	--
BA Dc 456	05-01-00	86.5	8.5	<.10	<.10	<.020	.928	<.010	--	--
BA Dc 457	05-09-00	2.3	3.8	<.10	E.10	<.020	1.86	<.010	--	--
BA Dc 458	05-30-00	15.6	9.4	<.10	E.10	<.020	2.22	<.010	--	--
BA Dc 459	05-30-00	3.1	1.3	<.10	<.10	<.020	.252	<.010	--	--
BA Dc 460	06-13-00	4.6	3.5	<.10	E.10	<.020	.893	<.010	--	--
BA Dc 461	06-29-00	15.8	2.7	<.10	<.10	<.020	.442	<.010	--	--
BA De 643	07-18-00	74.2	24.7	<.10	<.10	<.020	.069	<.010	--	--
BA De 644	08-30-00	12.9	<.3	<.10	<.10	<.020	3.03	<.010	--	--
BA De 645	08-30-00	32.3	15.4	<.10	E.10	<.020	.997	<.010	--	--
BA Dg 118	04-25-00	17.7	1.2	<.10	E.10	<.020	<.050	<.010	--	--
BA Dg 119	05-10-00	57.8	17.1	E.10	.11	<.020	5.00	<.010	--	5.1
BA Dg 120	05-08-00	22.8	7.2	E.10	E.10	<.020	6.61	<.010	--	--
	05-08-00	22.8	7.2	<.10	.34	<.020	6.65	<.010	--	7.0
BA Ea 92	04-10-00	11.0	3.1	<.10	<.10	<.020	3.25	.012	3.23	--
BA Ea 96	09-20-00	42.5	24.8	<.10	<.10	<.020	4.34	.011	4.33	--
BA Eb 292	04-10-00	7.9	11.6	<.10	<.10	<.020	3.07	<.010	--	--
BA Fb 82	04-11-00	259	103	.11	.10	<.020	2.85	<.010	--	2.9
	04-11-00	259	110	.10	.11	<.020	2.63	<.010	--	2.7

E Estimated value.

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

BALTIMORE COUNTY, MARYLAND--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS P04) (00660)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
BA Ad 150	09-18-00	--	.031	.010	.010	.010	148	342	E10
BA Bc 276	08-21-00	--	--	<.006	<.010	<.008	64	30	20
BA Be 39	09-19-00	--	.064	.024	.021	.027	214	72	<10
BA Cb 97	07-24-00	--	.107	.046	.035	.049	36	107	<10
BA Cb 145	06-21-00	--	.055	.025	.018	.029	67	147	20
BA Cc 167	08-08-00	--	--	E.004	<.010	<.008	71	136	30
BA Cd 242	08-16-00	--	--	.008	<.010	E.004	20	149	E10
BA Cd 243	08-16-00	--	--	<.006	<.010	.023	77	156	<10
BA Cd 244	08-23-00	--	--	.008	<.010	E.006	310	170	<10
BA Ce 317	06-13-00	--	--	<.006	<.010	<.008	57	793	E10
BA Ce 318	07-19-00	--	--	.008	<.010	.011	4.1	--	<10
BA Da 54	08-07-00	--	--	.011	<.010	.011	--	72	<10
BA Dc 454	05-03-00	--	--	.008	<.010	E.007	36	82	<10
BA Dc 455	05-01-00	--	--	<.006	<.010	E.004	64	184	120
BA Dc 456	05-01-00	--	--	<.006	<.010	E.004	50	181	130
BA Dc 457	05-09-00	--	--	<.006	<.010	<.008	37	28	E10
BA Dc 458	05-30-00	--	--	<.006	<.010	<.008	7.3	215	<10
BA Dc 459	05-30-00	--	.064	.022	.021	.020	.6	70	<10
BA Dc 460	06-13-00	--	--	<.006	<.010	<.008	7.2	213	<10
BA Dc 461	06-29-00	--	.061	.025	.020	.033	55	45	<10
BA De 643	07-18-00	--	--	<.006	<.010	.145	19	184	<10
BA De 644	08-30-00	--	.150	.057	.049	.059	128	--	<10
BA De 645	08-30-00	--	--	E.005	<.010	.013	187	97	<10
BA Dg 118	04-25-00	--	--	E.004	<.010	.017	74	105	5880
BA Dg 119	05-10-00	--	--	.008	<.010	.010	113	179	20
BA Dg 120	05-08-00	--	--	.007	<.010	E.004	104	133	<10
	05-08-00	--	--	.006	<.010	E.004	--	136	<10
BA Ea 92	04-10-00	--	.046	.012	.015	.015	19	88	<10
BA Ea 96	09-20-00	--	--	.012	<.010	.013	58	199	<10
BA Eb 292	04-10-00	--	.113	.046	.037	.048	69	94	<10
BA Fb 82	04-11-00	3.0	--	E.003	<.010	E.004	55	751	20
	04-11-00	2.7	--	E.003	<.010	.014	--	763	20

E Estimated value.

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

CHARLES COUNTY, MARYLAND

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	TIME	STATION NUMBER	GEO-LOGIC UNIT	SITE	SAM-PLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	FLOW RATE (G/M) (00059)
CH Cd 48	11-02-99	1220	383052077022701	121BRND	SP	70	145	1.4
	02-09-00	1445		121BRND	SP	70	145	1.8
	03-14-00	1145		121BRND	SP	70	145	1.4
	06-14-00	1015		121BRND	SP	70	145	.90
	08-08-00	1345		121BRND	SP	70	145	1.4

DATE	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	ANC WATER UNFLTRD IT FIELD CACO3 (00419)
11-02-99	664	58	5.1	5.9	75	--	15.1	5
02-09-00	767	76	9.4	6.6	69	10.0	6.5	4
03-14-00	--	--	--	--	--	12.0	8.0	--
06-14-00	--	1	1.2	5.3	66	21.0	17.8	4
08-08-00	760	48	4.0	5.8	27	31.0	24.5	4

DATE	NITRO-GEN, AM-MONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + TOTAL (MG/L AS N) (00625)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
11-02-99	<.020	.19	.83	<.010	.99	.35	.153	.015
02-09-00	<.020	E.10	.23	<.010	.69	--	.459	E.005
03-14-00	--	--	--	--	--	--	--	--
06-14-00	<.020	.26	.47	<.010	.80	.60	.331	.030
08-08-00	<.020	.25	.33	<.010	.62	.54	.296	.033

DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	COL FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML) (31673)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)
11-02-99	<.010	.049	--	--	K100	K44	12
02-09-00	<.010	.009	--	--	<1	--	2.2
03-14-00	--	--	--	20	--	160	--
06-14-00	.018	.055	.055	1200	2700	1700	44
08-08-00	.020	.040	.061	150	110	850	16

Geologic Unit (aquifer): 112BRND - Brandywine Formation

Site Type: SP - Spring

Sampling Method: 70 - Grab sample (dip)

E Estimated value.

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptance range (non-ideal colony count).

QUALITY OF GROUND WATER DATA

GARRETT COUNTY, MARYLAND

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	TIME	STATION NUMBER	SAMPLE TYPE	GEO-LOGIC UNIT	SITE	SAM-PLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)
GA Bc 51	08-01-00	0900	393907079165801	ENVIRONMENTAL	341HMPR	GW	8030	2300
GA Cc 56	07-31-00	1500	393049079175401	ENVIRONMENTAL	337POCN	GW	8030	2520
GA Da 29	07-31-00	1200	392711079271201	ENVIRONMENTAL	321CNMG	GW	8030	2480
GA Eb 72	07-24-00	0955	392420079221701	BLANK			--	--
	07-24-00	1000		ENVIRONMENTAL	341JNGS	SP	4010	2410

DATE	DEPTH OF WELL, TOTAL (FEET) (72008)	DEPTH TO BOT-TOM OF SAMPLE, INTER-VAL (FT) (72016)	DEPTH TO TOP OF SAMPLE, INTER-VAL (FT) (72015)	PUMP OR FLOW PERIOD TO SAM-PLING (MIN) (72004)	FLOW RATE (G/M) (00059)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER, FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-WATER (DEG C) (00010)	
GA Bc 51	08-01-00	240.00	240	41	21	4.0	1.4	6.8	148	10.6
GA Cc 56	07-31-00	180.00	180	95	780	12.0	6.2	6.7	145	10.4
GA Da 29	07-31-00	300.00	300	25	360	30.0	.6	7.3	191	11.1
GA Eb 72	07-24-00	--	--	--	--	--	--	--	--	--
	07-24-00	--	--	--	16.0	9.7	5.0	134	9.6	

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT DIS TOT IT (MG/L AS CACO3) (39086)	BICAR-BONATE WATER DIS IT (MG/L AS HCO3) (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	
GA Bc 51	08-01-00	59	12.2	6.85	1.7	5.3	55	67	1.6	<.1
GA Cc 56	07-31-00	71	25.4	1.70	.6	.6	82	100	2.2	.1
GA Da 29	07-31-00	96	30.5	4.92	.8	.6	94	115	1.3	<.1
GA Eb 72	07-24-00	--	<.02	<.01	<.2	<.1	--	--	<.3	<.1
	07-24-00	28	7.68	2.14	1.1	11.2	5	6	21.3	<.1

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHATE, ORTHO-DIS-SOLVED (MG/L AS PO4) (00660)	PHOS-PHORUS, ORTHO-DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS, ORTHO-DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	
GA Bc 51	08-01-00	12.7	20.0	.022	<.050	<.010	--	<.050	<.010	<.27
GA Cc 56	07-31-00	8.0	1.0	<.020	.164	<.010	.172	.074	.056	<.27
GA Da 29	07-31-00	7.3	8.6	.095	<.050	<.010	--	<.050	<.010	.35
GA Eb 72	07-24-00	<.1	<.3	<.020	<.050	<.010	--	<.050	<.010	<.27
	07-24-00	4.8	12.6	<.020	.796	<.010	--	<.050	<.010	.42

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	
GA Bc 51	08-01-00	16	93	94	10.9	<.1	50	60	<.1	137
GA Cc 56	07-31-00	29	82	90	<.9	<.1	<10	<.1	<.1	<.2
GA Da 29	07-31-00	9.0	108	111	<.9	<.1	180	210	<.1	61
GA Eb 72	07-24-00	--	<10	--	<.9	<.1	<10	<20	<.1	<.2
	07-24-00	101	80	67	<.9	<.1	<10	<20	<.1	83

Geologic Unit (aquifer): 321CNMG - Conemaugh Formation
 337POCN - Pocono Group
 341HMPR - Hampshire Formation
 341JNGS - Jennings Formation

Site Type: GW - Ground Water
 SP - Spring

Sampling Method: 4010 - Thief sample
 8030 - Grab sample at water-supply tap

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

GARRETT COUNTY, MARYLAND--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MERCURY DIS- SOLVED (UG/L (71890)	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA- HCH, D6 SUR SCD 1379 WTR, FLTRD, REC, PERCENT (UG/L) (90505)	AMETRYN WATER, DISS, REC, (UG/L) (38401)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	BRO- MACIL, WATER, DISS, REC (UG/L) (04029)	BUTA- CHLOR, WATER, DISS, REC (UG/L) (04026)
		GA Bc 51	08-01-00	135	<.2	<.050	<.050	79	<.05	<.050
GA Cc 56	07-31-00	<3	.6	<.050	<.050	81	<.05	<.050	<.05	<.05
GA Da 29	07-31-00	62	<.2	<.050	<.050	83	<.05	<.050	<.05	<.05
GA Eb 72	07-24-00	<3	<.2	<.050	<.050	88	<.05	<.050	<.05	<.05
	07-24-00	85	<.2	<.050	<.050	87	<.05	<.050	<.05	<.05
	DATE	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CAR- BOXIN, WATER, DISS, REC (UG/L) (04027)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	SI- CLOATE, WATER, DISS, REC (UG/L) (04031)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DEISO- PROPYL ATRAZIN WATER, DISS, REC (UG/L) (04038)	DIAZI- NON D10 SUR SCD 1379 WTR, FLTRD PERCENT (UG/L) (90670)	DIPHEN- AMID, WATER, DISS, REC (UG/L) (04033)	HEXA- ZINONE, WATER, DISS, REC (UG/L) (04025)
GA Bc 51	08-01-00	<.050	<.05	<.200	<.05	<.050	<.05	75	<.05	<.05
GA Cc 56	07-31-00	<.050	<.05	<.200	<.05	<.050	<.05	.6	<.05	<.05
GA Da 29	07-31-00	<.050	<.05	<.200	<.05	<.050	<.05	79	<.05	<.05
GA Eb 72	07-24-00	<.050	<.05	<.200	<.05	<.050	<.05	84	<.05	<.05
	07-24-00	<.050	<.05	<.200	<.05	<.050	<.05	86	<.05	<.05
	DATE	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN WATER DISSOLV (UG/L) (82630)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- METRYN, WATER, DISS, REC (UG/L) (04036)	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PROP- AZINE WATER, DISS, REC (UG/L) (38535)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	SIMA- WATER, DISS, REC (UG/L) (04030)	TER- BACIL, WATER, DISS, REC (UG/L) (04032)
GA Bc 51	08-01-00	<.050	<.050	<.050	<.05	<.050	<.05	<.050	<.05	<.05
GA Cc 56	07-31-00	<.050	<.050	<.050	<.05	<.050	<.05	<.050	<.05	<.05
GA Da 29	07-31-00	<.050	<.050	<.050	<.05	<.050	<.05	<.050	<.05	<.05
GA Eb 72	07-24-00	<.050	<.050	<.050	<.05	<.050	<.05	<.050	<.05	<.05
	07-24-00	<.050	<.050	<.050	<.05	<.050	<.05	<.050	<.05	<.05
	DATE	TRI- FLUR- ALIN, WATER, DISS, REC (UG/L) (04023)	VERNO- LATE, WATER, DISS, REC (UG/L) (04034)	XYLENE WATER UNFLTRD REC (UG/L) (81551)	BENZENE 14BRFL- SURROG VOC UNFLTRD REC PERCENT (UG/L) (99834)	ETHANE 12DICL SURROG VOC UNFLTRD REC PERCENT (UG/L) (34030)	ETHYL- BENZENE TOTAL REC PERCENT (UG/L) (99832)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)		
GA Bc 51	08-01-00	<.05	<.05	<.2	116	<.20	112	<.20	<.2	
GA Cc 56	07-31-00	<.05	<.05	<.2	105	<.20	111	<.20	1.2	
GA Da 29	07-31-00	<.05	<.05	<.2	109	<.20	110	<.20	<.2	
GA Eb 72	07-24-00	<.05	<.05	<.2	107	<.20	108	<.20	<.2	
	07-24-00	<.05	<.05	<.2	107	<.20	113	<.20	.5	
	DATE	META/ PARA- XYLENE WATER UNFLTRD REC (UG/L) (85795)	O- XYLENE WATER WHOLE TOTAL (UG/L) (77135)	TOLUENE D8 SURROG VOC UNFLTRD REC PERCENT (UG/L) (99833)	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 TOTAL (UG/L) (34010)	ALPHA RADIO. 2 SIGMA DISS AS TH-230 TH-230 (PCI/L) (75987)	BETA, 2 SIGMA WATER, DISS AS CS-137 (PCI/L) (75989)	GROSS BETA, DIS- SOLVED AS AS CS-137 (PCI/L) (03515)		
GA Bc 51	08-01-00	<.20	<.20	103	<.20	2.2	<3.00	4.0	<4.00	
GA Cc 56	07-31-00	<.20	<.20	91	<.20	1.8	<3.00	3.9	<4.00	
GA Da 29	07-31-00	<.20	<.20	100	<.20	2.2	<3.00	3.9	<4.00	
GA Eb 72	07-24-00	<.20	<.20	100	<.20	2.0	3.02	3.8	5.87	
	07-24-00	<.20	<.20	99	<.20	2.3	3.28	3.8	5.12	

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

HARFORD COUNTY, MARYLAND

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	TIME	STATION NUMBER	SAMPLE TYPE	GEO- LOGIC UNIT	SITE	SAM- PLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)
HA Ac 57	07-10-00	1245	394037076241501	ENVIRONMENTAL	300MGCK	GW	8030	500
HA Ac 58	09-11-00	1200	394208076221001	ENVIRONMENTAL	300MGCK	GW	8030	500
HA Ad 16	09-18-00	1115	394114076164401	ENVIRONMENTAL	300MGCK	GW	8030	300
HA Bb 105	07-31-00	1445	393735076273001	ENVIRONMENTAL	370LCRV	GW	8030	620
HA Bb 106	08-28-00	1130	393610076291401	ENVIRONMENTAL	370LCRV	GW	8030	550
HA Bb 107	08-29-00	1300	393609076284901	ENVIRONMENTAL	370LCRV	GW	8030	550
HA Bc 34	06-14-00	1420	393812076244501	ENVIRONMENTAL	300MCGM	GW	8030	300
	06-14-00	1421		REPLICATE	300MCGM	GW	8030	300
HA Bd 82	07-31-00	1200	393855076171601	ENVIRONMENTAL	300UMFC	GW	8030	450
HA Bf 19	09-06-00	1230	393600076082101	ENVIRONMENTAL	300PRDP	GW	8030	150
HA Bf 20	09-06-00	1530	393637076094901	ENVIRONMENTAL	300WSCK	GW	8030	150
HA Ca 29	09-07-00	1315	393458076303601	ENVIRONMENTAL	300CCKV	GW	8030	550
HA Cb 286	07-12-00	1115	393130076243001	ENVIRONMENTAL	300BLMR	GW	8030	520
HA Cb 287	08-01-00	1320	393235076270501	ENVIRONMENTAL	370LCRV	GW	8030	570
HA Cb 288	08-08-00	1100	393150076271001	ENVIRONMENTAL	370LCRV	GW	8030	540
HA Cb 289	08-23-00	0830	393237076281601	ENVIRONMENTAL	370LCRV	GW	8030	500
HA Cc 196	06-19-00	1500	393015076221001	ENVIRONMENTAL	300PRDP	GW	8030	360
HA Cc 197	07-11-00	1700	393115076251001	ENVIRONMENTAL	370LCRV	GW	8030	460
	07-11-00	1701		REPLICATE	370LCRV	GW	8030	460
HA Cc 198	07-24-00	1500	393442076203901	ENVIRONMENTAL	300BLMR	GW	8030	480
HA Cc 199	08-22-00	1015	393011076240701	ENVIRONMENTAL	300BLMR	GW	8030	450
HA Cc 200	09-07-00	0930	393145076262901	ENVIRONMENTAL	370LCRV	GW	8030	400
HA Cd 199	07-13-00	1430	393005076161001	ENVIRONMENTAL	300JMSR	GW	8030	240
HA Cd 200	07-17-00	1445	393321076172001	ENVIRONMENTAL	300PRDP	GW	8030	400
HA Cd 201	07-25-00	1215	393149076174801	ENVIRONMENTAL	300PRDP	GW	8030	400
	07-25-00	1216		REPLICATE	300PRDP	GW	8030	400
HA Ce 119	08-23-00	1130	393339076144401	ENVIRONMENTAL	300JMSR	GW	8030	350
HA Ce 120	09-18-00	0845	393338076134801	ENVIRONMENTAL	300MBAB	GW	8030	400
HA Cf 171	07-20-00	1415	393008076065301	ENVIRONMENTAL	217PTMC	GW	8030	42.0
HA Cf 176	08-03-00	1400	393109076063801	ENVIRONMENTAL	217PTMC	GW	8030	40.0
	08-03-00	1401		REPLICATE	217PTMC	GW	8030	40.0
HA Cf 178	08-28-00	1515	393432076085801	ENVIRONMENTAL	300MBAB	GW	8030	400
HA Dc 121	05-24-00	0930	392744076232901	ENVIRONMENTAL	300BLMR	GW	8030	140
HA Dc 122	06-26-00	1405	392911076232501	ENVIRONMENTAL	300BLMR	GW	8030	380
	06-26-00	1406		REPLICATE	300BLMR	GW	8030	380
HA Dc 123	08-01-00	1100	392815076244501	ENVIRONMENTAL	300BLMR	GW	8030	300
HA Dd 108	05-02-00	1500	392514076205601	ENVIRONMENTAL	217PTMC	GW	8030	--
HA De 297	05-31-00	1230	392914076144401	ENVIRONMENTAL	300MBAB	GW	8030	--
	05-31-00	1231		REPLICATE	300MBAB	GW	8030	--
HA De 298	06-20-00	1115	393001076160501	ENVIRONMENTAL	300JMSR	GW	8030	160
HA De 299	07-18-00	1445	393000076123001	ENVIRONMENTAL	300MBAB	GW	8030	100

Geologic Unit (aquifer): 217PTMC - Patuxent Formation
300BLMR - Baltimore Gabbro Complex
300CCKV - Cockeysville Marble
300JMSR - James Run Formation
300MBAB - Metagabbro and Amphibolite
300MCGM - Metaconglomerate of Wissahickon Formation
300MGCK - Metagraywacke of Wissahickon Formation
300PRDP - Port Deposit Gneiss
300UMFC - Ultramafic Rocks
300WSCK - Wissahickon Formation
370LCRV - Loch Raven Schist

Site Type: GW - Ground Water

Sampling Method: 8030 - Grab sample at water-supply tap

QUALITY OF GROUND WATER DATA

HARFORD COUNTY, MARYLAND--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	DEPTH OF WELL, TOTAL (FEET) (72008)	DEPTH TO BOTTOM OF SAMPLE INTERVAL (FT) (72016)	DEPTH OF SAMPLE INTERVAL (FT) (72015)	PUMP OR FLOW PERIOD TO SAMPLING (MIN) (72004)	FLOW RATE (G/M) (00059)	OXYGEN, DIS-SOLVED (PER-CENT SATURATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)
HA Ac 57	07-10-00	--	--	21	--	3.0	--	3.3	5.5	980
HA Ac 58	09-11-00	250.00	250	68	20	3.2	--	8.8	5.8	295
HA Ad 16	09-18-00	175.00	175	38	20	3.2	--	10.1	5.7	59
HA Bb 105	07-31-00	250.00	250	32	--	4.0	--	1.1	5.9	154
HA Bb 106	08-28-00	250.00	250	39	20	3.0	--	8.8	6.7	91
HA Bb 107	08-29-00	300.00	300	40	20	3.5	--	9.6	4.8	102
HA Bc 34	06-14-00	150.00	150	20	--	3.0	--	9.1	5.8	72
	06-14-00	150.00	150	20	--	--	--	--	--	--
HA Bd 82	07-31-00	64.00	64	55	--	4.0	--	16.4	7.0	259
HA Bf 19	09-06-00	200.00	200	20	20	4.0	--	8.4	6.6	162
HA Bf 20	09-06-00	405.00	405	24	20	4.0	--	1.8	7.8	274
HA Ca 29	09-07-00	100.00	100	40	20	1.5	--	6.7	5.6	336
HA Cb 286	07-12-00	162.00	162	75	--	4.0	--	1.9	7.3	98
HA Cb 287	08-01-00	550.00	550	42	--	3.0	--	3.7	6.6	746
HA Cb 288	08-08-00	200.00	200	51	--	3.0	--	5.7	6.1	--
HA Cb 289	08-23-00	280.00	280	58	20	3.0	--	3.5	5.6	564
HA Cc 196	06-19-00	107.00	107	20	--	2.0	178	18.2	6.3	318
HA Cc 197	07-11-00	300.00	300	111	--	4.0	--	5.3	6.6	310
	07-11-00	300.00	300	111	--	--	--	--	--	--
HA Cc 198	07-24-00	59.00	59	29	--	2.5	--	1.8	7.5	1450
HA Cc 199	08-22-00	205.00	205	22	20	2.5	--	3.0	6.6	582
HA Cc 200	09-07-00	300.00	300	30	20	3.0	--	7.5	5.3	241
HA Cd 199	07-13-00	200.00	200	45	--	2.0	--	--	5.8	237
HA Cd 200	07-17-00	200.00	200	80	--	5.0	--	8.2	5.9	255
HA Cd 201	07-25-00	150.00	150	47	--	1.5	--	--	5.7	585
	07-25-00	150.00	150	47	--	--	--	--	--	--
HA Ce 119	08-23-00	39.00	39	24	20	4.0	--	6.6	5.7	697
HA Ce 120	09-18-00	125.00	125	43	20	2.5	--	5.6	6.6	205
HA Cf 171	07-20-00	144.00	144	112	--	3.0	--	1.4	6.6	78
HA Cf 176	08-03-00	70.00	70	60	--	4.0	--	3.1	6.3	150
	08-03-00	70.00	70	60	--	--	--	--	--	--
HA Cf 178	08-28-00	110.00	110	65	20	3.0	--	8.8	5.8	54
HA Dc 121	05-24-00	200.00	200	6.0	--	4.5	70	7.2	6.4	204
HA Dc 122	06-26-00	125.00	125	--	--	4.0	--	--	6.2	105
	06-26-00	125.00	125	--	--	--	--	--	--	--
HA Dc 123	08-01-00	150.00	150	30	--	4.0	--	4.5	7.0	617
HA Dd 108	05-02-00	300.00	300	56	--	3.5	29	2.9	7.9	254
HA De 297	05-31-00	245.00	245	64	--	3.0	44	4.4	7.8	387
	05-31-00	245.00	245	64	--	--	--	--	--	--
HA De 298	06-20-00	200.00	200	60	--	4.0	--	1.1	7.1	251
HA De 299	07-18-00	400.00	400	72	--	4.0	--	.6	7.3	229

QUALITY OF GROUND WATER DATA

HARFORD COUNTY, MARYLAND--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	TEMPER-	TEMPER-	HARD-	CALCIUM	MAGNE-	POTAS-	SODIUM,	ANC	ANC
		ATURE AIR (DEG C) (00020)	ATURE WATER (DEG C) (00010)	NESS TOTAL (MG/L CACO3) (00900)	DIS- SOLVED (MG/L AS CA) (00915)	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SIUM, DIS- SOLVED (MG/L AS K) (00935)	DIS- SOLVED (MG/L AS NA) (00930)	WATER UNFLTRD IT MG/L AS CACO3 (00419)	BICAR- BONATE IT MG/L AS HCO3 (00450)
HA Ac 57	07-10-00	30.0	14.5	290	79.0	21.9	3.7	43.8	--	--
HA Ac 58	09-11-00	25.0	13.0	120	13.4	20.7	.9	10.3	32	39
HA Ad 16	09-18-00	18.0	12.0	17	4.60	1.22	.4	3.2	14	17
HA Bb 105	07-31-00	30.0	15.0	56	9.97	7.56	2.8	8.6	15	18
HA Bb 106	08-28-00	23.0	16.5	29	5.33	3.77	2.0	101	95	116
HA Bb 107	08-29-00	24.0	13.5	30	2.56	5.62	1.5	2.8	3	4
HA Bc 34	06-14-00	20.0	13.0	17	3.07	2.36	.8	4.6	9	11
	06-14-00	--	--	17	3.04	2.35	.8	4.5	--	--
HA Bd 82	07-31-00	30.0	15.0	110	14.4	18.8	.3	2.7	80	98
HA Bf 19	09-06-00	19.0	13.0	62	21.4	2.06	1.5	5.6	52	63
HA Bf 20	09-06-00	19.5	15.0	89	21.1	8.77	.7	18.7	101	123
HA Ca 29	09-07-00	19.0	13.0	78	16.4	9.00	3.0	49.5	16	20
HA Cb 286	07-12-00	27.0	14.5	36	7.06	4.51	3.1	6.5	41	50
HA Cb 287	08-01-00	31.0	15.0	240	60.0	23.0	6.6	36.0	120	146
HA Cb 288	08-08-00	32.0	15.0	92	20.1	10.2	3.8	14.4	27	33
HA Cb 289	08-23-00	19.0	14.0	130	28.2	13.4	4.8	45.3	28	34
HA Cc 196	06-19-00	20.0	14.5	140	29.9	15.9	.5	6.4	108	132
HA Cc 197	07-11-00	29.0	13.5	140	24.5	18.0	1.0	4.0	--	--
	07-11-00	--	--	130	24.2	17.8	1.0	3.9	--	--
HA Cc 198	07-24-00	19.0	16.5	700	27.9	153	.8	27.2	207	253
HA Cc 199	08-22-00	23.5	14.5	220	46.1	26.5	E.2	26.3	182	222
HA Cc 200	09-07-00	14.5	14.5	34	5.39	4.88	1.8	20.1	12	15
HA Cd 199	07-13-00	24.0	17.0	57	8.78	8.47	3.1	8.3	22	27
HA Cd 200	07-17-00	25.5	15.0	54	16.6	2.96	.7	19.0	14	17
HA Cd 201	07-25-00	21.5	15.0	160	30.2	19.8	2.8	31.0	20	24
	07-25-00	--	--	160	30.1	19.7	2.8	30.8	--	--
HA Ce 119	08-23-00	23.0	15.5	220	49.7	23.6	.7	11.6	54	66
HA Ce 120	09-18-00	14.0	15.0	75	16.6	8.23	.5	5.3	45	55
HA Cf 171	07-20-00	28.0	14.0	22	5.55	2.01	.8	6.3	30	37
HA Cf 176	08-03-00	29.0	14.0	40	8.38	4.73	1.0	10.7	31	38
	08-03-00	--	--	41	8.49	4.81	1.0	10.8	--	--
HA Cf 178	08-28-00	26.0	16.0	37	8.50	3.92	.5	7.3	10	12
HA Dc 121	05-24-00	21.0	13.5	74	19.0	6.55	.7	8.6	46	56
HA Dc 122	06-26-00	27.0	13.5	38	8.83	3.81	.8	5.1	26	32
	06-26-00	--	--	39	9.15	3.94	.9	5.3	--	--
HA Dc 123	08-01-00	31.0	14.0	220	52.0	21.4	.8	9.0	80	98
HA Dd 108	05-02-00	20.5	14.0	54	17.9	2.29	3.6	32.2	120	146
HA De 297	05-31-00	15.5	14.5	160	32.2	19.6	2.5	11.3	143	174
	05-31-00	--	--	160	32.2	19.5	2.6	11.4	--	--
HA De 298	06-20-00	26.0	15.0	97	22.1	10.1	2.2	12.4	125	153
HA De 299	07-18-00	31.0	16.0	100	21.3	11.8	1.6	5.7	110	134

E Estimated value.

QUALITY OF GROUND WATER DATA

HARFORD COUNTY, MARYLAND--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, TOTAL (MG/L AS N) (00600)
HA Ac 57	07-10-00	258	2.2	<.10	E.10	<.020	8.46	<.010	--	--
HA Ac 58	09-11-00	12.8	47.3	<.10	<.10	<.020	8.13	<.010	--	--
HA Ad 16	09-18-00	5.3	E.2	<.10	<.10	<.020	1.17	<.010	--	--
HA Bb 105	07-31-00	22.4	4.5	.11	E.10	<.020	7.23	<.010	--	--
HA Bb 106	08-28-00	64.9	.4	<.10	E.10	<.020	2.46	<.010	--	--
HA Bb 107	08-29-00	9.0	<.3	<.10	E.10	<.020	6.16	<.010	--	--
HA Bc 34	06-14-00	10.8	.8	<.10	<.10	<.020	1.03	<.010	--	--
	06-14-00	11.2	.8	<.10	<.10	<.020	1.04	<.010	--	--
HA Bd 82	07-31-00	28.5	6.4	<.10	<.10	<.020	2.77	<.010	--	--
HA Bf 19	09-06-00	3.1	9.0	<.10	<.10	<.020	.648	<.010	--	--
HA Bf 20	09-06-00	3.6	22.4	<.10	E.10	.045	.063	<.010	--	--
HA Ca 29	09-07-00	107	5.1	<.10	E.10	<.020	6.78	<.010	--	--
HA Cb 286	07-12-00	6.4	10.7	<.10	<.10	<.020	.079	<.010	--	--
HA Cb 287	08-01-00	159	10.6	<.10	<.10	<.020	1.88	<.010	--	--
HA Cb 288	08-08-00	59.5	3.3	<.10	<.10	<.020	5.38	<.010	--	--
HA Cb 289	08-23-00	133	8.4	E.10	.14	.050	3.17	<.010	--	3.3
HA Cc 196	06-19-00	23.9	15.3	<.10	<.10	<.020	2.60	<.010	--	--
HA Cc 197	07-11-00	28.5	7.6	<.10	<.10	<.020	4.09	<.010	--	--
	07-11-00	28.1	7.7	<.10	<.10	<.020	4.05	<.010	--	--
HA Cc 198	07-24-00	393	25.0	<.10	E.10	<.020	1.82	<.010	--	--
HA Cc 199	08-22-00	45.1	32.5	E.10	E.10	<.020	.330	<.010	--	--
HA Cc 200	09-07-00	51.0	4.1	<.10	<.10	<.020	3.08	<.010	--	--
HA Cd 199	07-13-00	41.7	1.8	<.10	.33	<.020	1.02	.035	.983	1.3
HA Cd 200	07-17-00	52.3	.4	<.10	E.10	<.020	2.92	<.010	--	--
HA Cd 201	07-25-00	133	5.6	<.10	<.10	<.020	5.75	<.010	--	--
	07-25-00	134	5.6	<.10	<.10	<.020	6.28	<.010	--	--
HA Ce 119	08-23-00	112	14.4	E.10	E.10	<.020	8.16	<.010	--	--
HA Ce 120	09-18-00	11.4	2.2	E.10	.16	.075	7.60	<.010	--	7.8
HA Cf 171	07-20-00	4.9	2.6	<.10	<.10	<.020	.687	<.010	--	--
HA Cf 176	08-03-00	17.1	4.0	E.10	<.10	<.020	2.61	<.010	--	--
	08-03-00	16.9	4.0	E.10	<.10	<.020	2.57	<.010	--	--
HA Cf 178	08-28-00	2.4	E.2	<.10	<.10	<.020	1.64	<.010	--	--
HA Dc 121	05-24-00	6.9	18.5	<.10	<.10	<.020	4.22	<.010	--	--
HA Dc 122	06-26-00	5.2	1.5	<.10	<.10	<.020	2.24	<.010	--	--
	06-26-00	5.2	1.4	<.10	<.10	<.020	2.32	<.010	--	--
HA Dc 123	08-01-00	112	.7	<.10	<.10	<.020	4.42	<.010	--	--
HA Dd 108	05-02-00	1.5	6.5	E.10	.15	.074	<.050	<.010	--	--
HA De 297	05-31-00	32.1	2.7	<.10	E.10	.020	<.050	<.010	--	--
	05-31-00	32.0	2.8	<.10	E.10	.020	<.050	<.010	--	--
HA De 298	06-20-00	4.8	10.0	<.10	<.10	<.020	<.050	<.010	--	--
HA De 299	07-18-00	4.6	3.2	<.10	E.10	<.020	<.050	<.010	--	--

E Estimated value.

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

HARFORD COUNTY, MARYLAND--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS P04) (00660)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
HA Ac 57	07-10-00	--	--	.011	<.010	.010	90	454	<10
HA Ac 58	09-11-00	--	.199	.081	.065	.093	90	161	<10
HA Ad 16	09-18-00	--	.086	.034	.028	.033	59	--	<10
HA Bb 105	07-31-00	7.3	--	.007	<.010	.025	33	97	<10
HA Bb 106	08-28-00	--	.031	<.006	.010	.013	38	246	<10
HA Bb 107	08-29-00	--	--	<.006	<.010	<.008	79	--	<10
HA Bc 34	06-14-00	--	.034	.015	.011	.014	27	32	<10
	06-14-00	--	.034	.014	.011	.013	--	34	<10
HA Bd 82	07-31-00	--	--	<.006	<.010	<.008	13	132	<10
HA Bf 19	09-06-00	--	--	<.006	<.010	<.008	31	76	<10
HA Bf 20	09-06-00	--	--	<.006	<.010	<.008	3.6	136	<10
HA Ca 29	09-07-00	--	.095	.041	.031	.042	81	230	E10
HA Cb 286	07-12-00	--	--	<.006	<.010	.010	3.1	64	420
HA Cb 287	08-01-00	--	.034	<.006	.011	<.008	51	375	<10
HA Cb 288	08-08-00	--	.034	.014	.011	.031	43	152	<10
HA Cb 289	08-23-00	--	.089	.035	.029	.035	154	264	E10
HA Cc 196	06-19-00	--	.089	.028	.029	.031	91	168	<10
HA Cc 197	07-11-00	--	.077	.030	.025	.028	44	154	<10
	07-11-00	--	.080	.031	.026	.027	--	154	<10
HA Cc 198	07-24-00	--	.037	.014	.012	.013	13	760	<10
HA Cc 199	08-22-00	--	.110	.039	.036	.039	96	--	<10
HA Cc 200	09-07-00	--	--	E.005	<.010	E.006	102	108	40
HA Cd 199	07-13-00	--	--	<.006	<.010	1.05	57	90	240
HA Cd 200	07-17-00	--	.110	.040	.036	.050	44	113	60
HA Cd 201	07-25-00	--	.037	.018	.012	.011	79	260	E10
	07-25-00	--	.040	.019	.013	.011	--	263	<10
HA Ce 119	08-23-00	--	.052	.023	.017	.021	265	281	E10
HA Ce 120	09-18-00	--	.052	.018	.017	.024	23	105	10
HA Cf 171	07-20-00	--	--	<.006	<.010	<.008	12	44	220
HA Cf 176	08-03-00	--	.071	.007	.023	E.007	24	76	<10
	08-03-00	--	.049	.007	.016	.009	--	74	<10
HA Cf 178	08-28-00	--	--	E.004	<.010	E.006	36	--	<10
HA Dc 121	05-24-00	--	.086	.027	.028	.025	44	107	E10
HA Dc 122	06-26-00	--	.083	.032	.027	.035	47	51	<10
	06-26-00	--	.089	.034	.029	.034	--	58	<10
HA Dc 123	08-01-00	--	--	.010	<.010	.010	13	263	<10
HA Dd 108	05-02-00	--	.049	.023	.016	.022	2.7	136	20
HA De 297	05-31-00	--	--	.007	<.010	E.005	5.0	186	160
	05-31-00	--	--	.006	<.010	E.005	--	190	120
HA De 298	06-20-00	--	.138	.019	.045	.819	16	138	900
HA De 299	07-18-00	--	--	<.006	<.010	<.008	11	115	610

E Estimated value.

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

MONTGOMERY COUNTY, MARYLAND

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	TIME	STATION NUMBER	SAMPLE TYPE	GEO-LOGIC UNIT	SITE
MO Cf 29	11-10-99	1230	391017077072701	ENVIRONMENTAL	BEDROCK	GW
MO Cf 30	11-18-99	1300	391142077081701	ENVIRONMENTAL	BEDROCK	GW
MO Cf 31	11-22-99	1200	391025077054701	ENVIRONMENTAL	377SKVL	GW
	11-22-99	1205		REPLICATE	377SKVL	GW
MO Df 30	11-02-99	1230	390925077085001	ENVIRONMENTAL	BEDROCK	GW
MO Df 31	11-02-99	1400	390917077085301	ENVIRONMENTAL	BEDROCK	GW
MO Df 32	11-18-99	1100	390848077071501	ENVIRONMENTAL	377SKVL	GW
MO Df 33	11-22-99	1300	390830077063901	ENVIRONMENTAL	377SKVL	GW
	11-22-99	1305		REPLICATE	377SKVL	GW
MO Df 35	11-22-99	1100	390943077073201	ENVIRONMENTAL	BEDROCK	GW
	11-22-99	1105		REPLICATE	BEDROCK	GW

DATE	SAM-PLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	DEPTH TO BOT-TOM OF SAMPLE (FT) (72016)	DEPTH TO TOP OF SAMPLE (FT) (72015)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)
11-10-99	8030	480	180.00	180	76	--
11-18-99	8030	580	200.00	200	72	30
11-22-99	8030	480	400.00	400	23	18
11-22-99	8030	480	400.00	400	23	--
11-02-99	8030	480	160.00	160	48	35
11-02-99	4010	480	--	--	--	27
11-18-99	8030	440	160.00	160	20	20
11-22-99	8030	445	285.00	285	30	21
11-22-99	8030	445	285.00	285	30	--
11-22-99	8030	480	70.00	70	28	37
11-22-99	8030	480	70.00	70	28	--

DATE	FLOW RATE (G/M) (00059)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
11-10-99	4.0	8.8	5.6	64	13.4	2.74
11-18-99	4.0	7.8	5.9	119	13.5	3.51
11-22-99	3.0	2.0	5.4	120	13.3	.656
11-22-99	--	--	--	--	--	.665
11-02-99	5.8	7.7	5.9	73	13.7	2.06
11-02-99	10.0	8.2	5.4	181	13.7	1.79
11-18-99	4.0	9.6	6.0	106	13.8	4.40
11-22-99	3.0	6.9	5.8	147	14.6	1.98
11-22-99	--	--	--	--	--	1.99
11-22-99	3.0	9.2	5.6	112	13.6	5.01
11-22-99	--	--	--	--	--	5.04

Geologic Unit (aquifer): 377SKVL - Sykesville Formation

Site Type: GW - Ground Water

Sampling Method: 4010 - Thief sampler
8030 - Grab sample at water-supply tap

QUALITY OF GROUND WATER DATA

QUEEN ANNES COUNTY, MARYLAND

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	TIME	STATION	NUMBER	SAMPLE TYPE	GEO- LOGIC UNIT	SITE
QA Db 14	03-24-00	0945	390055076184501		ENVIRONMENTAL	125AQUI	GW
	08-07-00	1330			ENVIRONMENTAL	125AQUI	GW
QA Db 15	03-22-00	1440	390022076191801		ENVIRONMENTAL	125AQUI	GW
	08-07-00	1215			ENVIRONMENTAL	125AQUI	GW
QA Db 17	03-24-00	1120	390059076191801		ENVIRONMENTAL	125AQUI	GW
	08-16-00	1408			REPLICATE	125AQUI	GW
	08-16-00	1410			ENVIRONMENTAL	125AQUI	GW
QA Db 23	03-21-00	1125	390033076184501		BLANK		
	03-21-00	1130			ENVIRONMENTAL	125AQUI	GW
	08-07-00	1100			ENVIRONMENTAL	125AQUI	GW
QA Db 27	03-24-00	1100	390117076191301		ENVIRONMENTAL	125AQUI	GW
	08-30-00	1120			ENVIRONMENTAL	125AQUI	GW
	08-30-00	1125			REPLICATE	125AQUI	GW
QA Db 30	08-24-00	1300	390201076182701		ENVIRONMENTAL	125AQUI	GW
QA Db 32	08-24-00	1100	390201076182703		ENVIRONMENTAL	125AQUI	GW
QA Db 34	08-25-00	1640	390023076174301		ENVIRONMENTAL	125AQUI	GW
QA Db 35	08-25-00	1130	390119076191001		ENVIRONMENTAL	125AQUI	GW
QA Db 37	08-25-00	1600	390023076174302		ENVIRONMENTAL	125AQUI	GW
QA Ea 39	03-21-00	1230	385825076202901		ENVIRONMENTAL	125AQUI	GW
	08-10-00	1050			ENVIRONMENTAL	125AQUI	GW
QA Ea 42	03-21-00	1330	385820076202501		ENVIRONMENTAL	125AQUI	GW
	08-10-00	1200			ENVIRONMENTAL	125AQUI	GW
QA Ea 45	03-24-00	1220	385554076213801		ENVIRONMENTAL	125AQUI	GW
	08-17-00	1210			ENVIRONMENTAL	125AQUI	GW
QA Ea 48	03-16-00	1100	385825076201201		ENVIRONMENTAL	125AQUI	GW
	08-17-00	1400			ENVIRONMENTAL	125AQUI	GW
QA Ea 59	03-29-00	1100	385505076215001		ENVIRONMENTAL	125AQUI	GW
	08-09-00	1320			ENVIRONMENTAL	125AQUI	GW
QA Ea 60	03-22-00	1330	385701076212501		ENVIRONMENTAL	125AQUI	GW
	08-08-00	1300			ENVIRONMENTAL	125AQUI	GW
QA Ea 61	03-22-00	1118	385812076202801		REPLICATE	125AQUI	GW
	03-22-00	1120			ENVIRONMENTAL	125AQUI	GW
	08-17-00	1310			ENVIRONMENTAL	125AQUI	GW
QA Ea 77	08-23-00	1640	385718076211501		ENVIRONMENTAL	125AQUI	GW
	08-23-00	1645			BLANK		
QA Ea 78	08-23-00	1430	385718076211502		ENVIRONMENTAL	125AQUI	GW
QA Ea 79	08-25-00	1330	385757076200101		ENVIRONMENTAL	125AQUI	GW
QA Ea 80	08-25-00	1430	385757076200102		ENVIRONMENTAL	125AQUI	GW
QA Ea 81	08-23-00	1330	385718076211503		ENVIRONMENTAL	125AQUI	GW
QA Ea 82	03-22-00	1230	385705076212002		ENVIRONMENTAL	125AQUI	GW
	08-08-00	1140			ENVIRONMENTAL	125AQUI	GW
QA Ea 83	08-08-00	1050	385705076212001		ENVIRONMENTAL	125AQUI	GW
QA Eb 155	08-24-00	1730	385843076155302		ENVIRONMENTAL	125AQUI	GW
QA Eb 156	08-24-00	1430	385852076195201		ENVIRONMENTAL	125AQUI	GW
QA Eb 157	08-24-00	1530	385852076195202		ENVIRONMENTAL	125AQUI	GW
QA Fa 54	03-23-00	1530	385024076222501		ENVIRONMENTAL	125AQUI	GW
	08-09-00	1210			ENVIRONMENTAL	125AQUI	GW
QA Fa 58	08-08-00	1530	385133076201201		ENVIRONMENTAL	125AQUI	GW
QA Fa 60	03-29-00	1300	385254076201901		ENVIRONMENTAL	125AQUI	GW
	08-08-00	1430			ENVIRONMENTAL	125AQUI	GW
QA Fa 63	03-24-00	1300	385434076215601		ENVIRONMENTAL	125AQUI	GW
	08-10-00	1300			ENVIRONMENTAL	125AQUI	GW
QA Fa 64	03-29-00	1158	385454076214901		REPLICATE	125AQUI	GW
	03-29-00	1200			ENVIRONMENTAL	125AQUI	GW
	08-16-00	1320			ENVIRONMENTAL	125AQUI	GW
QA Fa 66	03-23-00	1400	385236076215201		ENVIRONMENTAL	125AQUI	GW
	08-16-00	1150			ENVIRONMENTAL	125AQUI	GW
QA Fa 67	03-23-00	1450	385023076222201		ENVIRONMENTAL	125AQUI	GW
	08-09-00	1130			ENVIRONMENTAL	125AQUI	GW
QA Fa 72	03-29-00	1320	385254076201301		ENVIRONMENTAL	125AQUI	GW
	08-17-00	1120			ENVIRONMENTAL	125AQUI	GW
QA Fa 74	03-23-00	1320	385227076215401		ENVIRONMENTAL	125AQUI	GW
	08-09-00	1025			BLANK		
	08-09-00	1030			ENVIRONMENTAL	125AQUI	GW
QA Fa 75	03-29-00	1430	385155076200401		ENVIRONMENTAL	125AQUI	GW
	08-08-00	1600	385155076200401		ENVIRONMENTAL	125AQUI	GW

Geologic Unit (aquifer): 125AQUI - Aquia Formation

Site Type: GW - Ground Water

QUALITY OF GROUND WATER DATA

QUEEN ANNES COUNTY, MARYLAND--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	SAM-PLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)	DEPTH TO BOT-TOM OF SAMPLE VAL (FT) (72016)	DEPTH TO TOP OF INTER-INTER-VAL (FT) (72015)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)
QA Db 14	03-24-00	8030	15.0	--	165.00	165	145	30
	08-07-00	8030	15.0	--	165.00	165	145	25
QA Db 15	03-22-00	8030	15.0	--	103.00	103	96	30
	08-07-00	8030	15.0	--	103.00	103	96	35
QA Db 17	03-24-00	8030	20.0	--	--	--	--	20
	08-16-00	8030	20.0	--	--	--	--	--
	08-16-00	8030	20.0	--	--	--	--	40
QA Db 23	03-21-00	--	--	--	--	--	--	--
	03-21-00	8030	18.0	--	185.00	185	165	30
	08-07-00	8030	18.0	--	185.00	185	165	45
QA Db 27	03-24-00	8030	15.0	--	145.00	145	110	25
	08-30-00	8030	15.0	--	145.00	145	110	30
	08-30-00	8030	15.0	--	145.00	145	110	--
QA Db 30	08-24-00	4040	17.8	16.74	220.00	220	210	90
QA Db 32	08-24-00	4040	18.0	16.56	116.00	116	106	75
QA Db 34	08-25-00	4040	7.4	8.16	180.00	180	170	30
QA Db 35	08-25-00	4040	7.5	6.23	200.00	200	190	55
QA Db 37	08-25-00	4040	7.1	7.97	250.00	250	240	60
QA Ea 39	03-21-00	8030	15.0	--	95.00	95	80	35
	08-10-00	8030	15.0	--	95.00	95	80	35
QA Ea 42	03-21-00	8030	18.0	--	120.00	120	100	40
	08-10-00	8030	18.0	--	120.00	120	100	40
QA Ea 45	03-24-00	8030	15.0	--	210.00	210	200	25
	08-17-00	8030	15.0	--	210.00	210	200	25
QA Ea 48	03-16-00	8030	5.0	--	160.00	160	129	50
	08-17-00	8030	5.0	--	160.00	160	129	25
QA Ea 59	03-29-00	8030	10.0	--	215.00	215	195	25
	08-09-00	8030	10.0	--	215.00	215	195	25
QA Ea 60	03-22-00	8030	7.0	--	185.00	185	165	25
	08-08-00	8030	7.0	--	185.00	185	165	25
QA Ea 61	03-22-00	8030	7.0	--	185.00	185	165	--
	03-22-00	8030	18.0	--	170.00	170	150	30
	08-17-00	8030	18.0	--	170.00	170	150	25
QA Ea 77	08-23-00	4040	10.8	12.71	205.00	205	195	65
	08-23-00	--	--	--	--	--	--	--
QA Ea 78	08-23-00	4040	11.8	12.86	135.00	135	125	50
QA Ea 79	08-25-00	4040	8.3	10.52	298.00	298	288	95
QA Ea 80	08-25-00	4040	8.5	10.50	130.00	130	120	40
QA Ea 81	08-23-00	4040	12.4	12.37	310.00	310	300	100
QA Ea 82	03-22-00	8030	10.0	--	170.00	170	155	30
	08-08-00	8030	10.0	--	170.00	170	155	25
QA Ea 83	08-08-00	8030	10.0	--	170.00	170	160	35
QA Eb 155	08-24-00	4040	3.9	10.21	245.00	245	235	60
QA Eb 156	08-24-00	4040	12.0	13.80	220.00	220	210	45
QA Eb 157	08-24-00	4040	11.9	12.29	120.00	120	110	50
QA Fa 54	03-23-00	8030	10.0	--	260.00	260	240	20
	08-09-00	8030	10.0	--	260.00	260	240	25
QA Fa 58	08-08-00	8030	7.1	--	280.00	280	260	25
QA Fa 60	03-29-00	8030	10.1	--	240.00	240	230	25
	08-08-00	8030	10.1	--	240.00	240	230	25
QA Fa 63	03-24-00	8030	15.0	--	235.00	235	200	20
	08-10-00	8030	15.0	--	235.00	235	200	30
QA Fa 64	03-29-00	8030	15.0	--	235.00	235	200	--
	03-29-00	8030	5.0	--	231.00	231	191	35
	08-16-00	8030	5.0	--	231.00	231	191	30
QA Fa 66	03-23-00	8030	13.0	--	270.00	270	250	20
	08-16-00	8030	13.0	--	270.00	270	250	25
QA Fa 67	03-23-00	8030	7.3	--	270.00	270	250	25
	08-09-00	8030	7.3	--	270.00	270	250	20
QA Fa 72	03-29-00	8030	12.0	--	220.00	220	200	25
	08-17-00	8030	12.0	--	220.00	220	200	20
QA Fa 74	03-23-00	8030	10.0	--	280.00	--	--	30
	08-09-00	--	--	--	--	--	--	--
	08-09-00	8030	10.0	--	280.00	--	--	30
QA Fa 75	03-29-00	8030	10.0	--	200.00	200	180	35
	08-08-00	8030	10.0	--	200.00	200	180	35

Sampling Method: 4040 - Submersible pump
 8030 - Grab sample at water-supply tap

QUALITY OF GROUND WATER DATA

QUEEN ANNES COUNTY, MARYLAND--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	FLOW RATE (G/M) (00059)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
QA Db 14	03-24-00	--	7.4	463	13.0	14.0	13.5
	08-07-00	--	7.0	472	33.0	15.7	13.0
QA Db 15	03-22-00	--	7.0	1060	12.0	13.8	119
	08-07-00	--	--	1090	34.0	17.6	114
QA Db 17	03-24-00	--	7.3	633	15.0	14.0	61.9
	08-16-00	--	7.2	746	36.5	15.2	102
	08-16-00	--	7.2	746	36.5	15.2	104
QA Db 23	03-21-00	--	--	--	--	--	<.3
	03-21-00	--	7.3	454	6.0	14.2	17.1
	08-07-00	--	--	445	33.3	15.4	16.1
QA Db 27	03-24-00	--	7.2	1290	14.5	14.5	261
	08-30-00	--	7.2	1300	26.5	14.9	261
	08-30-00	--	7.2	1300	26.5	14.9	265
QA Db 30	08-24-00	6.7	6.3	17400	30.0	15.8	6000
QA Db 32	08-24-00	6.6	6.8	6780	27.5	15.0	2690
QA Db 34	08-25-00	7.0	7.4	524	31.5	16.0	8.6
QA Db 35	08-25-00	6.8	6.8	17500	25.5	15.4	6360
QA Db 37	08-25-00	6.9	7.5	578	32.5	16.3	11.4
QA Ea 39	03-21-00	--	7.5	428	6.5	14.2	33.2
	08-10-00	--	7.2	429	30.5	15.6	32.2
QA Ea 42	03-21-00	--	7.5	642	7.0	14.0	93.6
	08-10-00	--	7.4	594	33.5	15.9	103
QA Ea 45	03-24-00	--	7.8	364	17.0	15.3	5.6
	08-17-00	--	7.6	363	26.5	16.1	6.1
QA Ea 48	03-16-00	--	7.0	1320	24.0	14.9	303
	08-17-00	--	7.4	1420	26.5	15.7	341
QA Ea 59	03-29-00	--	7.7	593	15.0	15.3	86.8
	08-09-00	--	7.7	546	37.0	16.4	85.3
QA Ea 60	03-22-00	--	7.5	1640	11.0	15.0	418
	08-08-00	--	7.3	1640	37.5	15.9	424
QA Ea 61	03-22-00	--	7.2	4270	6.0	14.4	1300
	03-22-00	--	7.2	4270	6.0	14.4	1290
	08-17-00	--	7.2	4340	25.0	15.2	1330
QA Ea 77	08-23-00	7.0	7.1	16900	23.5	16.1	6200
	08-23-00	--	--	--	--	--	1.5
QA Ea 78	08-23-00	7.0	7.7	321	23.5	15.9	4.2
QA Ea 79	08-25-00	6.7	9.3	361	28.0	16.4	3.0
QA Ea 80	08-25-00	6.8	7.9	354	28.0	15.5	2.3
QA Ea 81	08-23-00	6.0	7.9	538	23.5	16.6	60.6
QA Ea 82	03-22-00	--	7.4	1180	9.0	14.9	276
	08-08-00	--	7.2	1130	37.0	16.2	276
QA Ea 83	08-08-00	--	7.4	371	30.5	15.9	12.5
QA Eb 155	08-24-00	7.0	7.9	331	27.5	16.2	1.7
QA Eb 156	08-24-00	6.8	6.9	20000	29.5	15.8	7450
QA Eb 157	08-24-00	7.0	7.5	350	29.5	15.4	5.1
QA Fa 54	03-23-00	--	7.7	357	15.0	15.6	11.0
	08-09-00	--	7.5	327	37.0	16.4	10.8
QA Fa 58	08-08-00	--	7.7	453	37.0	16.9	8.7
QA Fa 60	03-29-00	--	8.1	430	16.5	13.2	10.7
	08-08-00	--	8.0	414	36.5	22.4	9.4
QA Fa 63	03-24-00	--	7.3	458	18.0	15.7	8.0
	08-10-00	--	7.1	406	34.8	16.2	7.8
QA Fa 64	03-29-00	--	7.7	1090	15.0	14.8	251
	03-29-00	--	7.7	1090	15.0	14.8	255
	08-16-00	--	7.8	1160	36.5	16.6	272
QA Fa 66	03-23-00	--	7.7	519	16.0	15.7	21.1
	08-16-00	--	8.1	505	36.0	17.1	21.0
QA Fa 67	03-23-00	--	7.7	353	16.0	15.5	10.8
	08-09-00	--	7.6	326	37.0	16.2	10.8
QA Fa 72	03-29-00	--	7.9	496	17.5	15.6	14.1
	08-17-00	--	8.0	491	26.0	16.0	14.4
QA Fa 74	03-23-00	--	7.6	463	15.0	15.6	13.0
	08-09-00	--	--	--	--	--	2.0
	08-09-00	--	7.4	424	34.5	16.7	11.5
QA Fa 75	03-29-00	--	7.8	524	17.5	14.6	21.3
	08-08-00	--	--	491	36.0	18.4	19.6

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

ST. MARYS COUNTY, MARYLAND

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	TIME	STATION NUMBER	GEO-LOGIC UNIT	SITE	SAMPLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)
SM Df 100	08-11-00	1015	381721076264801	217PPSCU	GW	4040	21.0	57.99	910.00
		DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT) (72016)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT) (72015)	PUMP OR FLOW PERIOD TO SAM-PLING (MIN) (72004)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	
		905	706	5640	404	8.4	238	21.0	2
		CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD IT FIELD (MG/L AS CACO3) (00419)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	
		.39	.20	2.3	56.3	127	1.7	.4	
		FLUO-RIDE, TOTAL (MG/L AS F) (00951)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)
		.5	12.6	4.6	<.1	<.02	1.3	165	155
		ANTI-MONY, TOTAL (UG/L AS SB) (01097)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BROMIDE DIS-SOLVED (UG/L AS BR) (71870)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CYANIDE TOTAL (MG/L AS CN) (00720)
		<1.0	<1	6.7	<2	.02	<1.0	<1	<.01
		IRON, DIS-SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)
		50	60	<1	9	10	<.1	<50	<1
		THAL-LIUM, TOTAL (UG/L AS TL) (01059)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	RA-226, DIS-SOLVED, PLAN-CHET COUNT (PCI/L) (09510)	RADIUM 228 DIS-SOLVED (PCI/L) (81366)	RA-226 2 SIGMA DISS, (PCI/L) (76001)	RA-228 2 SIGMA DISS, WATER, (PCI/L) (76000)	URANIUM NATURAL 2 SIGMA DISS, WATER, (UG/L) (75990)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)
		<1.0	<20	<.10	<1.00	.03	.38	M	<1

Geologic Unit (aquifer): 217PPSCU - Upper Patapsco Aquifer in the Patapsco Formation

Site Type: GW - Ground Water

Sampling Method: 4040 - Submersible pump

< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

QUALITY OF GROUND WATER DATA

WASHINGTON COUNTY, MARYLAND

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	TIME	STATION NUMBER	SAMPLE TYPE	GEO-LOGIC UNIT	SITE	SAM-PLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)
WA Ab 3	07-26-00	1500	394223078182101	ENVIRONMENTAL	341HMPR	SP	4010	910
WA Ad 101	08-29-00	1000	394149078052801	ENVIRONMENTAL	344RMNY	GW	8030	560
	08-29-00	1005		REPLICATE	344RMNY	GW	8030	560
WA Ai 56	08-28-00	1000	394301077423601	ENVIRONMENTAL	367SNNG	GW	8030	680
WA Bh 73	08-29-00	1400	393512077451701	ENVIRONMENTAL	371CCCG	GW	8030	520
WA Bj 141	08-28-00	1400	393625077375501	ENVIRONMENTAL	371ELBK	GW	8030	610
	08-28-00	1405		REPLICATE	371ELBK	GW	8030	610

DATE	DEPTH OF WELL, TOTAL (FEET) (72008)	DEPTH TOM OF INTER-VAL (FT) (72016)	DEPTH OF SAMPLE INTER-VAL (FT) (72015)	PUMP OR FLOW TO SAM-PLING (MIN) (72004)	FLOW RATE (G/M) (00059)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
WA Ab 3	07-26-00	--	--	--	--	8.8	5.4	51	14.4
WA Ad 101	08-29-00	120.00	120	21	32	3.0	3.1	6.6	166
	08-29-00	120.00	120	21	--	--	--	--	--
WA Ai 56	08-28-00	50.00	50	20	27	4.0	7.6	6.9	696
WA Bh 73	08-29-00	85.00	85	35	31	3.0	4.6	6.7	763
WA Bj 141	08-28-00	100.00	100	75	44	4.0	--	6.7	1010
	08-28-00	100.00	100	75	--	--	--	--	--

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT DIS-TOT IT FIELD (MG/L AS CACO3) (39086)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)
WA Ab 3	07-26-00	15	3.31	1.67	1.2	1.6	--	--	2.2
WA Ad 101	08-29-00	70	19.2	5.39	1.3	5.8	72	88	1.1
	08-29-00	70	19.1	5.36	1.2	5.8	--	--	1.1
WA Ai 56	08-28-00	330	113	11.3	2.1	11.9	277	337	20.5
WA Bh 73	08-29-00	350	123	10.1	3.2	19.6	294	358	49.3
WA Bj 141	08-28-00	380	98.8	32.1	3.8	48.1	319	389	115
	08-28-00	410	107	34.0	3.6	46.9	--	--	115

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
WA Ab 3	07-26-00	9.8	7.8	<.020	.783	<.010	--	<.050	<.010
WA Ad 101	08-29-00	20.3	11.5	<.020	.089	<.010	--	<.050	<.010
	08-29-00	20.2	11.4	<.020	.089	<.010	--	<.050	<.010
WA Ai 56	08-28-00	11.0	27.5	<.020	9.13	<.010	.034	<.050	.011
WA Bh 73	08-29-00	11.5	34.5	<.020	3.96	<.010	--	<.050	<.010
WA Bj 141	08-28-00	11.7	28.9	<.020	7.75	<.010	--	<.050	<.010
	08-28-00	11.7	29.0	<.020	7.81	<.010	--	<.050	<.010

Geologic Unit (aquifer): 341HMPR - Hampshire Formation
 344RMNY - Romney Formation
 367SNNG - Stonehenge Limestone
 371CCCG - Conococheague Limestone
 371ELBK - Elbrook Formation

Site Type: GW - Ground Water
 SP - Spring

Sampling Method: 4010 - Thief sampler
 8030 - Grab sample at water-supply tap

E Estimated value.
 < Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

WASHINGTON COUNTY, MARYLAND--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	SOLIDS, RESIDUE AT 180 DEG. C (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, (MG/L) (70301)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)
		WA Ab 3	07-26-00	77	36	37	<.9	<1	<10	<20
WA Ad 101	08-29-00	35	107	108	<.9	<1	<10	40	<1	4
	08-29-00	--	107	108	<.9	<1	<10	40	<1	4
WA Ai 56	08-28-00	68	416	404	<.9	<1	<10	<20	<1	<2
WA Bh 73	08-29-00	104	454	445	<.9	<1	<10	<20	<1	<2
WA Bj 141	08-28-00	121	562	564	<.9	<1	<10	<20	<1	<2
	08-28-00	--	565	570	<.9	<1	<10	<20	<1	<2
WELL NUMBER	DATE	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	ACETO-CHLOR, WATER, FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC (UG/L) (46342)	ALPHA-HCH, D6 SUR SCD WTR, FLTRD, PERCENT (90505)	AMETRYN WATER, DISS, REC (UG/L) (38401)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BRO-MACIL, WATER, DISS, REC (UG/L) (04029)	BUTA-CHLOR, WATER, DISS, REC (UG/L) (04026)
		WA Ab 3	07-26-00	E2	<.2	<.050	<.050	70	<.05	<.050
WA Ad 101	08-29-00	5	<.2	<.050	<.050	86	<.05	<.050	<.20	<.05
	08-29-00	4	<.2	<.050	<.050	85	<.05	<.050	<.20	<.05
WA Ai 56	08-28-00	<3	<.2	<.050	<.050	84	<.05	.329	<.20	<.05
WA Bh 73	08-29-00	<3	<.2	<.050	<.050	80	<.05	.237	<.20	<.05
WA Bj 141	08-28-00	<3	<.2	<.050	<.050	87	<.05	.125	<.20	<.05
	08-28-00	<3	<.2	<.050	<.050	87	<.05	.125	<.20	<.05
WELL NUMBER	DATE	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BOXIN, WATER, DISS, REC (UG/L) (04027)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	SI-CLOATE, WATER, DISS, REC (UG/L) (04031)	DEETHYL-ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DEISO-PROPYL, WATER, DISS, REC (UG/L) (04038)	DIAZI-NON D10 SUR SCD WTR, FLTRD, PERCENT (90670)	DIPHEN-AMID, WATER, DISS, REC (UG/L) (04033)	HEXA-ZINONE, WATER, DISS, REC (UG/L) (04025)
		WA Ab 3	07-26-00	<.050	<.05	<.200	<.05	<.050	<.05	73
WA Ad 101	08-29-00	<.050	<.05	<.050	<.05	<.050	<.05	86	<.05	<.05
	08-29-00	<.050	<.05	<.050	<.05	<.050	<.05	88	<.05	<.05
WA Ai 56	08-28-00	<.050	<.05	<.050	<.05	.36	E.02	85	<.05	<.05
WA Bh 73	08-29-00	<.050	<.05	<.050	<.05	.25	.13	82	<.05	<.05
WA Bj 141	08-28-00	<.050	<.05	<.050	<.05	.41	.12	88	<.05	<.05
	08-28-00	<.050	<.05	<.050	<.05	.41	.12	90	<.05	<.05
WELL NUMBER	DATE	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BOZIN SENCOR WATER DISSOLV (UG/L) (82630)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRO-METRYN, WATER, DISS, REC (UG/L) (04036)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PROP-AZINE, WATER, DISS, REC (UG/L) (38535)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	SIMA-TRYN, WATER, DISS, REC (UG/L) (04030)	TER-BACIL, WATER, DISS, REC (UG/L) (04032)
		WA Ab 3	07-26-00	<.050	<.050	<.050	<.05	<.050	<.05	<.050
WA Ad 101	08-29-00	<.050	<.050	<.050	<.05	<.050	<.05	<.050	<.05	<.05
	08-29-00	<.050	<.050	<.050	<.05	<.050	<.05	<.050	<.05	<.05
WA Ai 56	08-28-00	E.010	<.050	E.034	<.05	<.050	E.01	E.031	<.05	<.05
WA Bh 73	08-29-00	E.011	<.050	E.033	<.05	<.050	E.01	E.020	<.05	<.05
WA Bj 141	08-28-00	E.020	<.050	E.029	<.05	<.050	E.01	.054	<.05	<.05
	08-28-00	E.023	<.050	E.031	<.05	<.050	E.01	.052	<.05	<.05

E Estimated value.

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

WASHINGTON COUNTY, MARYLAND--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	TRI- FLUR- ALIN, WATER, DISS, REC (UG/L) (04023)	VERNO- LATE, WATER, DISS, REC (UG/L) (04034)	XYLENE WATER UNFLTRD REC (UG/L) (81551)	BENZENE 14BRFL- SURROG VOC UNFLTRD PERCENT (99834)	BENZENE TOTAL (UG/L) (34030)	ETHANE 12DICL SURROG VOC UNFLTRD BENZENE REC PERCENT (99832)	ETHYL- BENZENE TOTAL (UG/L) (34371)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
		WA Ab 3	07-26-00	<.05	<.05	<.2	103	<.20	112
WA Ad 101	08-29-00	<.05	<.05	<.2	92	<.20	96	<.20	<.2
	08-29-00	<.05	<.05	<.2	91	<.20	93	<.20	<.2
WA Ai 56	08-28-00	<.05	<.05	<.2	101	<.20	103	<.20	<.2
WA Bh 73	08-29-00	<.05	<.05	<.2	91	<.20	95	<.20	<.2
WA Bj 141	08-28-00	<.05	<.05	<.2	101	<.20	105	<.20	<.2
	08-28-00	<.05	<.05	<.2	102	<.20	101	<.20	<.2

WELL NUMBER	DATE	META/ PARA- XYLENE WATER UNFLTRD REC (UG/L) (85795)	O- XYLENE WATER WHOLE TOTAL (UG/L) (77135)	TOLUENE D8 SURROG VOC UNFLTRD REC (99833)	TOLUENE TOTAL (UG/L) (34010)	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L) (75987)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS BETA, DIS- SOLVED AS (PCI/L) (03515)
		WA Ab 3	07-26-00	<.20	<.20	99	<.20	2.1	<3.00
WA Ad 101	08-29-00	<.20	<.20	101	<.20	2.3	<3.00	4.0	<4.00
	08-29-00	<.20	<.20	101	<.20	2.4	<3.00	3.9	<4.00
WA Ai 56	08-28-00	<.20	<.20	103	<.20	3.7	5.83	4.6	5.36
WA Bh 73	08-29-00	<.20	<.20	102	<.20	2.7	<3.00	4.4	<4.00
WA Bj 141	08-28-00	<.20	<.20	104	<.20	2.9	5.12	5.5	17.8
	08-28-00	<.20	<.20	102	<.20	1.7	<3.00	5.2	5.74

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

WICOMICO COUNTY, MARYLAND

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	TIME	STATION NUMBER	SAMPLE TYPE	GEO-LOGIC UNIT	SITE	SAM-PLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)
WI Bf 81	09-12-00	1500	382554075344701	ENVIRONMENTAL		GW	8030	46.0
WI Bh 4	10-06-99	1130	382543075212201	ENVIRONMENTAL	112PRBG	GW	4045	40.1
	10-06-99	1131		REPLICATE	112PRBG	GW	4045	40.1
	06-27-00	0930		ENVIRONMENTAL	112PRBG	GW	4045	40.1
WI Bh 5	10-06-99	0900	382543075212202	ENVIRONMENTAL	112BVDM	GW	4045	40.1
	06-27-00	1030		BLANK	112BVDM			
	06-27-00	1200		ENVIRONMENTAL	112BVDM	GW	4040	40.1
	06-27-00	1201		REPLICATE	112BVDM	GW	4040	40.1
WI Bh 8	10-05-99	1300	382609075210501	ENVIRONMENTAL	110ALVM	GW	4045	36.3
	06-26-00	1400		ENVIRONMENTAL	110ALVM	GW	4040	36.3
WI Bh 9	10-05-99	1100	382609075210502	ENVIRONMENTAL	112BVDM	GW	4045	36.3
	06-26-00	1700		ENVIRONMENTAL	112BVDM	GW	4040	36.3
WI Bh 12	10-05-99	1530	382549075204101	ENVIRONMENTAL	112PRBG	GW	4045	38.7
WI Ce 294	06-05-00	1600	382237075371401	ENVIRONMENTAL		GW	8030	40.0
WI Cf 210	06-05-00	1030	382224075311901	ENVIRONMENTAL		GW	8030	15.0
WI Ch 55	10-06-99	1400	382451075211902	ENVIRONMENTAL	112BVDM	GW	4060	35.8
WI Ch 56	10-07-99	1300	382452075202901	ENVIRONMENTAL	112PRBG	GW	4045	41.2
WI Ch 57	10-07-99	0930	382452075202902	ENVIRONMENTAL	112BVDM	GW	4045	41.5
wibxp2a	03-14-00	0900	382704075224101	ENVIRONMENTAL	112CLMB	PIEZ	4048	.0
	06-27-00	1500		ENVIRONMENTAL	112CLMB	PIEZ	4080	.0
wibxp2c	03-14-00	1100	382704075224103	ENVIRONMENTAL	112CLMB	PIEZ	4048	.0
	03-14-00	1130		REPLICATE	112CLMB	PIEZ	4048	.0
wibxp2d	03-14-00	1200	382704075224104	ENVIRONMENTAL	112CLMB	PIEZ	4048	.0
wibzpld	03-14-00	1500	382611075210604	ENVIRONMENTAL	112CLMB	PIEZ	4048	.0

DATE	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)	DEPTH TO BOTTOM OF SAMPLE INTER-VAL (FT) (72016)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT) (72015)	PUMP OR FLOW OF PERIOD TO SAM-PLING (MIN) (72004)	BARO-METRIC PRES-SURE (MM HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)
WI Bf 81	09-12-00	--	60.00	60	50	--	4.0	--
WI Bh 4	10-06-99	5.24	12.00	12	10	.55	763	11
	10-06-99	--	12.00	12	10	--	--	--
	06-27-00	5.73	12.00	12	10	.43	--	--
WI Bh 5	10-06-99	6.55	33.00	33	30	.55	763	1
	06-27-00	--	33.00	--	--	--	--	--
	06-27-00	7.20	33.00	33	30	.40	--	--
	06-27-00	--	33.00	33	30	--	--	--
WI Bh 8	10-05-99	5.87	13.00	13	11	.56	762	1
	06-26-00	6.77	13.00	13	11	.42	--	1.3
WI Bh 9	10-05-99	4.67	41.00	41	38	.80	762	1
	06-26-00	4.41	41.00	41	38	.40	--	.4
WI Bh 12	10-05-99	4.15	11.00	11	8.0	.67	762	1
WI Ce 294	06-05-00	--	72.00	72	67	3.0	--	--
WI Cf 210	06-05-00	--	83.00	83	73	3.0	--	--
WI Ch 55	10-06-99	2.89	45.00	45	42	1.0	760	1
WI Ch 56	10-07-99	7.90	17.00	17	15	1.0	770	20
WI Ch 57	10-07-99	9.53	50.00	50	47	1.0	770	1
wibxp2a	03-14-00	6.37	6.50	--	--	.20	--	--
	06-27-00	3.92	6.50	--	--	.20	--	1.1
wibxp2c	03-14-00	2.54	9.10	--	--	.20	--	M
	03-14-00	--	9.10	--	--	--	--	--
wibxp2d	03-14-00	6.75	9.06	--	--	.20	--	1.0
wibzpld	03-14-00	12.08	10.00	--	--	.20	--	.4

Geologic Unit (aquifer): 110ALVM - Quaternary Alluvium
 112BVDM - Beaverdam Sand
 112CLMB - Columbia Formation
 112PRBG - Parsonsburg Formation

Site Type: GW - Ground Water
 PIEZ - Piezometer

Sampling Method: 4040 - Submersible pump
 4045 - Submersible multiple impeller (turbine) pump
 4048 - Submersible gas-displacement pump
 4060 - Gas reciprocating pump
 4080 - Peristaltic pump
 8030 - Grab sample at water-supply tap

M Presence of material verified but not quantified.

QUALITY OF GROUND WATER DATA

WICOMICO COUNTY, MARYLAND--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	PH	SPE-	TEMPER-	TEMPER-	HARD-	CALCIUM	MAGNE-	POTAS-	SODIUM,
		WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	CIFIC CON- DUCT- ANCE (US/CM) (00095)	ATURE AIR (DEG C) (00020)	ATURE WATER (DEG C) (00010)	NESS TOTAL (MG/L AS CACO3) (00900)	DIS- SOLVED (MG/L AS CA) (00915)	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SIUM, DIS- SOLVED (MG/L AS K) (00935)	DIS- SOLVED (MG/L AS NA) (00930)
WI Bf 81	09-12-00	--	--	--	--	--	--	--	--	--
WI Bh 4	10-06-99	4.6	235	14.5	21.0	71	17.4	6.60	8.5	5.1
	10-06-99	--	--	--	--	70	17.3	6.55	8.4	5.1
	06-27-00	5.1	182	--	18.0	55	13.2	5.25	6.1	5.1
WI Bh 5	10-06-99	5.6	112	13.0	16.5	12	3.34	.84	.9	9.3
	06-27-00	--	--	--	--	--	E.01	<.01	<.2	<.1
	06-27-00	6.1	112	--	18.5	14	3.93	1.04	.9	9.7
	06-27-00	--	--	--	--	14	3.96	1.04	.9	9.8
WI Bh 8	10-05-99	5.8	278	12.5	17.0	40	6.91	5.51	2.0	5.0
	06-26-00	6.2	287	--	6.0	40	6.95	5.48	1.8	4.7
WI Bh 9	10-05-99	5.8	162	12.5	14.5	17	4.32	1.51	.8	8.6
	06-26-00	6.2	165	--	15.0	17	4.35	1.50	1.1	8.3
WI Bh 12	10-05-99	6.0	162	12.5	19.5	12	3.12	.92	1.1	8.9
WI Ce 294	06-05-00	5.3	153	19.5	15.0	39	9.70	3.61	3.3	5.5
WI Cf 210	06-05-00	5.9	173	19.5	16.0	50	14.0	3.60	1.6	8.0
WI Ch 55	10-06-99	6.1	153	14.5	15.5	15	4.23	1.12	1.1	9.2
WI Ch 56	10-07-99	5.1	171	12.0	16.5	59	11.4	7.46	2.3	4.3
WI Ch 57	10-07-99	5.3	224	11.0	14.1	69	12.7	9.00	2.8	11.2
wibxp2a	03-14-00	5.7	96	--	11.6	--	--	--	--	--
	06-27-00	5.7	105	33.0	20.5	24	6.50	1.81	1.3	6.7
wibxp2c	03-14-00	6.2	163	--	12.0	--	--	--	--	--
	03-14-00	--	--	--	--	--	--	--	--	--
wibxp2d	03-14-00	6.1	77	--	12.6	--	--	--	--	--
wibzpld	03-14-00	5.8	292	--	13.0	--	--	--	--	--
DATE	ALKA-	ANC	BICAR-	ANC	CHLO-	FLUO-	SILICA,	SULFATE	NITRO-	
	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	WATER UNFLTRD IT FIELD MG/L AS CACO3 (00419)	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	BICAR- BONATE IT FIELD MG/L AS HCO3 (00450)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED AS (MG/L SIO2) (00955)	DIS- SOLVED AS (MG/L AS SO4) (00945)	GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	
WI Bf 81	09-12-00	--	--	--	--	--	--	--	E.10	
WI Bh 4	10-06-99	2	--	3	--	14.1	<.1	5.2	12.8	.31
	10-06-99	--	--	--	--	13.9	<.1	5.2	12.9	.25
	06-27-00	42	--	51	--	9.7	<.1	4.3	14.1	.23
WI Bh 5	10-06-99	47	--	58	--	6.2	<.1	44.9	<.3	.62
	06-27-00	--	--	--	--	1.1	<.1	M	<.3	<.10
	06-27-00	49	--	60	--	6.2	<.1	44.2	.3	.45
	06-27-00	--	--	--	--	6.3	<.1	44.3	.4	--
WI Bh 8	10-05-99	139	--	169	--	4.3	<.1	38.7	.8	3.7
	06-26-00	147	--	179	--	4.5	<.1	38.6	.4	3.9
WI Bh 9	10-05-99	74	--	90	--	6.6	<.1	42.2	<.3	.27
	06-26-00	73	--	89	--	6.9	<.1	36.9	<.3	.25
WI Bh 12	10-05-99	76	--	93	--	6.4	<.1	49.5	<.3	.56
WI Ce 294	06-05-00	--	2	--	2	13.7	--	--	<.3	E.10
WI Cf 210	06-05-00	--	8	--	10	9.6	--	--	9.0	<.10
WI Ch 55	10-06-99	71	--	86	--	6.4	<.1	35.2	<.3	.21
WI Ch 56	10-07-99	11	--	14	--	6.0	<.1	7.8	17.2	.38
WI Ch 57	10-07-99	20	--	24	--	9.4	<.1	8.1	49.2	.34
wibxp2a	03-14-00	--	--	--	--	--	--	--	--	1.6
	06-27-00	19	--	23	--	12.4	<.1	31.1	E.2	1.5
wibxp2c	03-14-00	--	--	--	--	--	--	--	--	.75
	03-14-00	--	--	--	--	--	--	--	--	.74
wibxp2d	03-14-00	--	--	--	--	--	--	--	--	.16
wibzpld	03-14-00	--	--	--	--	--	--	--	--	1.2

E Estimated value.

< Actual value is known to be less than the value shown.

M Presence of material verified but not quantified.

QUALITY OF GROUND WATER DATA

WICOMICO COUNTY, MARYLAND--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	NITRO-GEN, AM-MONIA + ORGANIC	NITRO-GEN, AMMONIA DIS-SOLVED	NITRO-GEN, NO2+NO3 DIS-SOLVED	NITRO-GEN, NITRITE DIS-SOLVED	NITRO-GEN, NITRATE DIS-SOLVED	NITRO-GEN, ORGANIC DIS-SOLVED	NITRO-GEN, TOTAL	NITRO-GEN, DIS-SOLVED	PHOS-PHATE, ORTHO, DIS-SOLVED
		(MG/L AS N) (00625)	(MG/L AS N) (00608)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00618)	(MG/L AS N) (00607)	(MG/L AS N) (00600)	(MG/L AS N) (00602)	(MG/L AS P04) (00660)
WI Bf 81	09-12-00	<.10	<.020	7.64	<.010	--	--	--	--	--
WI Bh 4	10-06-99	--	<.020	17.4	<.010	--	--	--	18	--
	10-06-99	--	<.020	17.3	<.010	--	--	--	18	--
	06-27-00	--	<.020	.365	<.010	--	--	--	.59	.141
WI Bh 5	10-06-99	--	.464	.069	<.010	--	.15	--	.69	.889
	06-27-00	--	<.020	<.050	<.010	--	--	--	--	--
	06-27-00	--	.395	<.050	<.010	--	.10	--	--	.635
	06-27-00	--	--	--	--	--	--	--	--	--
WI Bh 8	10-05-99	--	3.68	<.050	<.010	--	M	--	--	.739
	06-26-00	--	3.46	<.050	<.010	--	.47	--	--	.901
WI Bh 9	10-05-99	--	.181	.059	.058	.001	.10	--	.33	.475
	06-26-00	--	.163	<.050	.016	--	.10	--	--	.432
WI Bh 12	10-05-99	--	.500	<.050	.039	--	.10	--	--	1.99
WI Ce 294	06-05-00	<.10	<.020	9.85	<.010	--	--	--	--	--
WI Cf 210	06-05-00	<.10	<.020	10.2	<.010	--	--	--	--	--
WI Ch 55	10-06-99	--	.182	<.050	.022	--	M	--	--	1.81
WI Ch 56	10-07-99	--	<.020	9.94	<.010	--	--	--	10	--
WI Ch 57	10-07-99	--	<.020	5.05	<.010	--	--	--	5.4	--
wibxp2a	03-14-00	1.8	1.08	<.050	<.010	--	.49	--	--	.199
	06-27-00	--	1.19	<.050	<.010	--	.33	--	--	.233
wibxp2c	03-14-00	.71	.667	<.050	<.010	--	.10	--	--	1.30
	03-14-00	.69	.648	<.050	<.010	--	.10	--	--	1.27
wibxp2d	03-14-00	.21	.094	<.050	<.010	--	.10	--	--	.052
wibzpld	03-14-00	1.1	.964	.243	<.010	--	.24	1.3	1.4	.052

WELL NUMBER	DATE	PHOS-PHORUS DIS-SOLVED	PHOS-PHORUS ORTHO, DIS-SOLVED	PHOS-PHORUS TOTAL	CARBON, ORGANIC DIS-SOLVED	CARBON DIOXIDE DIS-SOLVED	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI-TUENTS,	TUR-BID-ITY
		(MG/L AS P) (00666)	(MG/L AS P) (00671)	(MG/L AS P) (00665)	(MG/L AS C) (00681)	(MG/L AS CO2) (00405)	(MG/L) (70300)	(MG/L) (70301)	(NTU) (00076)
WI Bf 81	09-12-00	E.005	<.010	E.005	--	--	--	--	--
WI Bh 4	10-06-99	E.004	<.010	--	1.5	--	150	148	--
	10-06-99	<.006	<.010	--	1.5	--	147	148	--
	06-27-00	<.006	.046	--	--	--	129	85	--
WI Bh 5	10-06-99	.245	.290	--	3.2	--	105	--	--
	06-27-00	<.006	<.010	--	--	--	<10	--	--
	06-27-00	.219	.207	--	--	--	105	107	--
	06-27-00	--	--	--	--	--	108	--	--
WI Bh 8	10-05-99	E.042	.241	--	10	--	185	200	.9
	06-26-00	<.050	.294	--	--	--	183	199	--
WI Bh 9	10-05-99	.207	.155	--	4.4	--	124	--	12
	06-26-00	.133	.141	--	--	--	131	--	--
WI Bh 12	10-05-99	.698	.649	--	4.2	--	131	--	.6
WI Ce 294	06-05-00	<.006	<.010	<.008	--	30	--	--	--
WI Cf 210	06-05-00	.008	<.010	E.006	--	26	--	96	--
WI Ch 55	10-06-99	.564	.591	--	4.6	--	102	--	--
WI Ch 56	10-07-99	<.006	<.010	--	3.8	--	112	108	--
WI Ch 57	10-07-99	E.004	<.010	--	3.2	--	142	137	2.8
wibxp2a	03-14-00	.075	.065	.096	--	--	--	--	--
	06-27-00	.085	.076	--	--	--	100	--	--
wibxp2c	03-14-00	.398	.425	.376	--	--	--	--	--
	03-14-00	.384	.413	.327	--	--	--	--	--
wibxp2d	03-14-00	.027	.017	.032	--	--	--	--	--
wibzpld	03-14-00	.024	.017	.043	--	--	--	--	--

E Estimated value.
 < Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

WICOMICO COUNTY, MARYLAND--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	ALUM-	ANTI-	ARSENIC	IRON,	MANGA-	MERCURY	SELE-	2,6-DI-
		INUM, DIS- SOLVED (UG/L AS AL) (01106)	MONY, DIS- SOLVED (UG/L AS SB) (01095)	DIS- SOLVED (UG/L AS AS) (01000)	DIS- SOLVED (UG/L AS FE) (01046)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	DIS- SOLVED (UG/L AS HG) (71890)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	ETHYL ANILINE WAT FLT 0.7 U (UG/L) (82660)
WI Bf 81	09-12-00	--	--	--	--	--	--	--	--
WI Bh 4	10-06-99	112	<1	<2.0	<10	60	<.1	<2.4	<.010
	10-06-99	114	<1	<2.0	E10	59	<.1	<2.4	<.005
	06-27-00	--	--	--	E10	41	--	--	--
WI Bh 5	10-06-99	<15	<1	E1.3	12200	140	<.1	<2.4	<.003
	06-27-00	--	--	--	E10	<2	--	--	--
	06-27-00	--	--	--	10300	132	--	--	--
	06-27-00	--	--	--	10300	133	--	--	--
WI Bh 8	10-05-99	<15	<1	2.2	48200	201	<.1	<2.4	<.003
	06-26-00	--	--	--	43300	197	--	--	--
WI Bh 9	10-05-99	<15	<1	4.3	26900	244	<.1	<2.4	<.003
	06-26-00	--	--	--	18600	246	--	--	--
WI Bh 12	10-05-99	<15	<1	4.8	29200	89	<.1	<2.4	E.001
WI Ce 294	06-05-00	--	--	--	E10	--	--	--	--
WI Cf 210	06-05-00	--	--	--	<10	--	--	--	--
WI Ch 55	10-06-99	<15	<1	7.6	24800	201	<.1	<2.4	<.003
WI Ch 56	10-07-99	115	1	<2.0	20	3	<.1	<2.4	<.003
WI Ch 57	10-07-99	18	<1	<2.0	30	40	<.1	<2.4	.015
wibxp2a	03-14-00	--	--	--	--	--	--	--	--
	06-27-00	--	--	--	2560	366	--	--	--
wibxp2c	03-14-00	--	--	--	--	--	--	--	--
	03-14-00	--	--	--	--	--	--	--	--
wibxp2d	03-14-00	--	--	--	--	--	--	--	--
wibzpld	03-14-00	--	--	--	--	--	--	--	--
WELL NUMBER	DATE	ACETO-	ALA-	ALPHA	ATRA-	BEN-	BUTYL-	CAR-	CARBO-
		CHLOR, WATER, FLTRD REC (UG/L) (49260)	CHLOR, WATER, DISS, REC, (UG/L) (46342)	BHC DIS- SOLVED (UG/L) (34253)	WATER, DISS, REC (UG/L) (39632)	FLUR- ZINE, WAT FLD 0.7 U GF, REC (UG/L) (82673)	ALIN WATER, DISS, REC (UG/L) (04028)	BARYL- WATER, FLTRD 0.7 U GF, REC (UG/L) (82680)	FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)
WI Bf 81	09-12-00	--	--	--	--	--	--	--	--
WI Bh 4	10-06-99	<.002	<.002	<.002	.079	<.002	<.002	<.003	<.003
	10-06-99	<.002	<.002	<.002	.078	<.002	<.002	<.003	<.003
	06-27-00	--	--	--	--	--	--	--	--
WI Bh 5	10-06-99	<.002	<.002	<.002	<.001	<.002	<.002	<.003	<.003
	06-27-00	--	--	--	--	--	--	--	--
	06-27-00	--	--	--	--	--	--	--	--
	06-27-00	--	--	--	--	--	--	--	--
WI Bh 8	10-05-99	<.002	<.002	<.002	<.001	<.002	<.002	<.003	<.003
	06-26-00	--	--	--	--	--	--	--	--
WI Bh 9	10-05-99	<.002	<.002	<.002	<.001	<.002	<.002	<.003	<.003
	06-26-00	--	--	--	--	--	--	--	--
WI Bh 12	10-05-99	<.002	<.002	<.002	<.001	<.002	<.002	<.003	<.003
WI Ce 294	06-05-00	--	--	--	--	--	--	--	--
WI Cf 210	06-05-00	--	--	--	--	--	--	--	--
WI Ch 55	10-06-99	<.002	<.002	<.002	<.001	<.002	<.002	<.003	<.003
WI Ch 56	10-07-99	<.002	<.002	<.002	<.001	<.002	<.002	<.003	<.003
WI Ch 57	10-07-99	<.002	<.002	<.002	.011	<.002	<.002	E.006	<.003
wibxp2a	03-14-00	--	--	--	--	--	--	--	--
	06-27-00	--	--	--	--	--	--	--	--
wibxp2c	03-14-00	--	--	--	--	--	--	--	--
	03-14-00	--	--	--	--	--	--	--	--
wibxp2d	03-14-00	--	--	--	--	--	--	--	--
wibzpld	03-14-00	--	--	--	--	--	--	--	--

E Estimated value.

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

WICOMICO COUNTY, MARYLAND--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DIAZ-INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT (91063) (39572)	DI-AZINON, DIS-SOLVED (UG/L) (39381)	DI-ELDRIN DIS-SOLVED (UG/L) (82677)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)
WI Bf 81	09-12-00	--	--	--	--	--	--	--	--
WI Bh 4	10-06-99	<.004	<.004	<.002	E.17	109	<.002	<.001	<.017
	10-06-99	<.004	<.004	<.002	E.15	97	<.002	<.001	<.017
	06-27-00	--	--	--	--	--	--	--	--
WI Bh 5	10-06-99	<.004	<.004	<.002	<.002	115	<.002	<.001	<.017
	06-27-00	--	--	--	--	--	--	--	--
	06-27-00	--	--	--	--	--	--	--	--
	06-27-00	--	--	--	--	--	--	--	--
WI Bh 8	10-05-99	<.004	<.004	<.002	<.002	120	<.002	<.001	<.017
	06-26-00	--	--	--	--	--	--	--	--
WI Bh 9	10-05-99	<.004	<.004	<.002	<.002	116	<.002	<.001	<.017
	06-26-00	--	--	--	--	--	--	--	--
WI Bh 12	10-05-99	<.004	<.004	<.002	<.002	104	<.002	<.001	<.017
WI Ce 294	06-05-00	--	--	--	--	--	--	--	--
WI Cf 210	06-05-00	--	--	--	--	--	--	--	--
WI Ch 55	10-06-99	<.004	<.004	<.002	<.002	81	<.002	<.001	<.017
WI Ch 56	10-07-99	<.004	<.004	<.002	E.012	96	<.002	<.001	<.017
WI Ch 57	10-07-99	<.004	<.004	<.002	E.003	99	<.002	<.001	<.017
wibxp2a	03-14-00	--	--	--	--	--	--	--	--
	06-27-00	--	--	--	--	--	--	--	--
wibxp2c	03-14-00	--	--	--	--	--	--	--	--
	03-14-00	--	--	--	--	--	--	--	--
wibxp2d	03-14-00	--	--	--	--	--	--	--	--
wibzpld	03-14-00	--	--	--	--	--	--	--	--

WELL NUMBER	DATE	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC PERCENT (91065) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	
WI Bf 81	09-12-00	--	--	--	--	--	--	--	
WI Bh 4	10-06-99	<.002	<.004	<.003	<.003	106	<.004	<.002	<.005
	10-06-99	<.002	<.004	<.003	<.003	97	<.004	<.002	<.005
	06-27-00	--	--	--	--	--	--	--	--
WI Bh 5	10-06-99	<.002	<.004	<.003	<.003	105	<.004	<.002	<.005
	06-27-00	--	--	--	--	--	--	--	--
	06-27-00	--	--	--	--	--	--	--	--
	06-27-00	--	--	--	--	--	--	--	--
WI Bh 8	10-05-99	<.002	<.004	<.003	<.003	104	<.004	<.002	<.005
	06-26-00	--	--	--	--	--	--	--	--
WI Bh 9	10-05-99	<.002	<.004	<.003	<.003	99	<.004	<.002	<.005
	06-26-00	--	--	--	--	--	--	--	--
WI Bh 12	10-05-99	<.002	<.004	<.003	<.003	93	<.004	<.002	<.005
WI Ce 294	06-05-00	--	--	--	--	--	--	--	--
WI Cf 210	06-05-00	--	--	--	--	--	--	--	--
WI Ch 55	10-06-99	<.002	<.004	<.003	<.003	70	<.004	<.002	<.005
WI Ch 56	10-07-99	<.002	<.004	<.003	<.003	94	<.004	<.002	<.005
WI Ch 57	10-07-99	<.002	<.004	<.003	<.003	99	<.004	<.002	<.005
wibxp2a	03-14-00	--	--	--	--	--	--	--	--
	06-27-00	--	--	--	--	--	--	--	--
wibxp2c	03-14-00	--	--	--	--	--	--	--	--
	03-14-00	--	--	--	--	--	--	--	--
wibxp2d	03-14-00	--	--	--	--	--	--	--	--
wibzpld	03-14-00	--	--	--	--	--	--	--	--

E Estimated value.
 < Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

WICOMICO COUNTY, MARYLAND--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	METHYL AZIN-PHOS	METHYL PARA-THION	METO-LACHLOR	METRI-BUZIN	MOL-INATE	NAPROP-AMIDE	P, P' DDE	PARA-THION, DIS-SOLVED
		WAT FLT 0.7 U GF, REC (82686)	WAT FLT 0.7 U GF, REC (82667)	WATER DISSOLV (UG/L) (39415)	WATER DISSOLV (UG/L) (82630)	WATER DISSOLV (UG/L) (82671)	FLTRD 0.7 U GF, REC (82684)	FLTRD 0.7 U GF, REC (34653)	FLTRD 0.7 U GF, REC (39542)
WI Bf 81	09-12-00	--	--	--	--	--	--	--	--
WI Bh 4	10-06-99	<.001	<.006	E.002	<.004	<.004	<.003	<.006	<.004
	10-06-99	<.001	<.006	E.002	<.004	<.004	<.003	<.006	<.004
	06-27-00	--	--	--	--	--	--	--	--
WI Bh 5	10-06-99	<.001	<.006	<.002	<.004	<.004	<.003	<.006	<.004
	06-27-00	--	--	--	--	--	--	--	--
	06-27-00	--	--	--	--	--	--	--	--
WI Bh 8	10-05-99	<.001	<.006	E.002	<.004	<.004	<.003	<.006	<.004
	06-26-00	--	--	--	--	--	--	--	--
WI Bh 9	10-05-99	<.001	<.006	<.002	<.004	<.004	<.003	<.006	<.004
	06-26-00	--	--	--	--	--	--	--	--
WI Bh 12	10-05-99	<.001	<.006	<.002	<.004	<.004	<.003	<.006	<.004
WI Ce 294	06-05-00	--	--	--	--	--	--	--	--
WI Cf 210	06-05-00	--	--	--	--	--	--	--	--
WI Ch 55	10-06-99	<.001	<.006	<.002	<.004	<.004	<.003	<.006	<.004
WI Ch 56	10-07-99	<.001	<.006	<.002	<.004	<.004	<.003	<.006	<.004
WI Ch 57	10-07-99	<.001	<.006	.561	<.004	<.004	<.003	<.006	<.004
wibxp2a	03-14-00	--	--	--	--	--	--	--	--
	06-27-00	--	--	--	--	--	--	--	--
wibxp2c	03-14-00	--	--	--	--	--	--	--	--
	03-14-00	--	--	--	--	--	--	--	--
wibxp2d	03-14-00	--	--	--	--	--	--	--	--
wibzpld	03-14-00	--	--	--	--	--	--	--	--

WELL NUMBER	DATE	PEB-ULATE	PENDI-METH-ALIN	PER-METHRIN	PHORATE	PRO-METON,	PRON-AMIDE	PROPA-CHLOR,	PRO-PANIL
		WATER FILTRD 0.7 U GF, REC (82669)	WAT FLT 0.7 U GF, REC (82683)	WAT FLT 0.7 U GF, REC (82687)	WATER FLTRD 0.7 U GF, REC (82664)	WATER FLTRD 0.7 U DISS, REC (04037)	WATER, FLTRD 0.7 U GF, REC (82676)	WATER, FLTRD 0.7 U DISS, REC (04024)	WATER, FLTRD 0.7 U GF, REC (82679)
WI Bf 81	09-12-00	--	--	--	--	--	--	--	--
WI Bh 4	10-06-99	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004
	10-06-99	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004
	06-27-00	--	--	--	--	--	--	--	--
WI Bh 5	10-06-99	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004
	06-27-00	--	--	--	--	--	--	--	--
	06-27-00	--	--	--	--	--	--	--	--
WI Bh 8	10-05-99	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004
	06-26-00	--	--	--	--	--	--	--	--
WI Bh 9	10-05-99	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004
	06-26-00	--	--	--	--	--	--	--	--
WI Bh 12	10-05-99	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004
WI Ce 294	06-05-00	--	--	--	--	--	--	--	--
WI Cf 210	06-05-00	--	--	--	--	--	--	--	--
WI Ch 55	10-06-99	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004
WI Ch 56	10-07-99	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004
WI Ch 57	10-07-99	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004
wibxp2a	03-14-00	--	--	--	--	--	--	--	--
	06-27-00	--	--	--	--	--	--	--	--
wibxp2c	03-14-00	--	--	--	--	--	--	--	--
	03-14-00	--	--	--	--	--	--	--	--
wibxp2d	03-14-00	--	--	--	--	--	--	--	--
wibzpld	03-14-00	--	--	--	--	--	--	--	--

E Estimated value.
 < Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

WICOMICO COUNTY, MARYLAND--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (82685)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
WI Bf 81	09-12-00	--	--	--	--	--	--	--	--
WI Bh 4	10-06-99	<.013	E.004	<.010	<.007	<.013	<.002	<.001	<.002
	10-06-99	<.013	E.004	<.010	<.007	<.013	<.002	<.001	<.002
	06-27-00	--	--	--	--	--	--	--	--
WI Bh 5	10-06-99	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
	06-27-00	--	--	--	--	--	--	--	--
	06-27-00	--	--	--	--	--	--	--	--
WI Bh 8	10-05-99	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
	06-26-00	--	--	--	--	--	--	--	--
WI Bh 9	10-05-99	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
	06-26-00	--	--	--	--	--	--	--	--
WI Bh 12	10-05-99	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
WI Ce 294	06-05-00	--	--	--	--	--	--	--	--
WI Cf 210	06-05-00	--	--	--	--	--	--	--	--
WI Ch 55	10-06-99	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
WI Ch 56	10-07-99	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
WI Ch 57	10-07-99	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
wibxp2a	03-14-00	--	--	--	--	--	--	--	--
	06-27-00	--	--	--	--	--	--	--	--
wibxp2c	03-14-00	--	--	--	--	--	--	--	--
	03-14-00	--	--	--	--	--	--	--	--
wibxp2d	03-14-00	--	--	--	--	--	--	--	--
wibzpld	03-14-00	--	--	--	--	--	--	--	--

E Estimated value.
 < Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

WORCESTER COUNTY, MARYLAND

WELL NUMBER	DATE	TIME	STATION NUMBER	SAMPLE TYPE	GEO- LOGIC UNIT	SITE	SAM- PLING METHOD, CODES (82398)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)
WO Ah 36	08-30-00	0815	382635075030602	ENVIRONMENTAL	122MNKN	GW	4040	13.0
WO Ah 38	08-30-00	0630	382638075033001	ENVIRONMENTAL	122MNKN	GW	8030	4.0
WO Bg 60	06-06-00	1015	382007075063801	ENVIRONMENTAL		GW	8030	10.0
	06-06-00	1016		REPLICATE		GW	8030	10.0
WO Bh 28	08-30-00	1245	382214075041901	ENVIRONMENTAL	122OCNC	GW	8030	6.0
WO Bh 29	08-30-00	1300	382216075041201	ENVIRONMENTAL	122OCNC	GW	8030	6.0
WO Bh 34	08-30-00	1030	382443075033501	ENVIRONMENTAL	122MNKN	GW	4040	4.0
WO Bh 84	08-30-00	1515	382215075041901	ENVIRONMENTAL	121BVDM	GW	4040	5.0
WO Bh 85	08-30-00	1430	382215075041902	ENVIRONMENTAL	122PCMK	GW	4040	5.0
WO Bh 89	08-30-00	1330	382215075041903	ENVIRONMENTAL	122MNKN	GW	4040	5.0
WO Bh 98	08-31-00	1000	382127075043802	ENVIRONMENTAL	122OCNC	GW	4040	5.0
	08-31-00	1005		REPLICATE	122OCNC	GW	4040	5.0
WO Bh 101	11-19-99	1200	382127075043804	ENVIRONMENTAL	122OCNC	GW	8030	5.0
	08-31-00	0730		ENVIRONMENTAL	122OCNC	GW	8030	5.0
WO Cf 56	02-04-00	0900	381713075123501	ENVIRONMENTAL	121BVDM	GW	4040	11.1
	04-03-00	1630		ENVIRONMENTAL	121BVDM	GW	4040	11.1
WO Cf 57	02-04-00	0930	381713075123502	ENVIRONMENTAL	121BVDM	GW	4040	11.0
	04-03-00	1500		ENVIRONMENTAL	121BVDM	GW	4040	11.0
WO Cf 58	02-04-00	1100	381713075123503	ENVIRONMENTAL	112SNPX	GW	4040	10.3
	04-04-00	0945		ENVIRONMENTAL	112SNPX	GW	4040	10.3
WO Cf 59	02-03-00	1630	381640075120801	ENVIRONMENTAL	112SNPX	GW	4040	10.7
	04-04-00	0800		ENVIRONMENTAL	112SNPX	GW	4040	10.7
WO Cg 33	08-31-00	0800	381938075052001	ENVIRONMENTAL	112RDGV	GW	8030	6.0
WO Cg 34	11-19-99	0945	381940075051901	ENVIRONMENTAL	122OCNC	GW	8030	5.0
WO Cg 84	02-02-00	1330	381526075095001	ENVIRONMENTAL	121BVDM	GW	4040	6.9
	04-04-00	1400		ENVIRONMENTAL	121BVDM	GW	4040	6.9
WO Cg 85	02-02-00	1430	381526075095002	ENVIRONMENTAL	112SNPX	GW	4040	7.0
	04-04-00	1500		ENVIRONMENTAL	112SNPX	GW	4040	7.0
WO Cg 86	02-03-00	1500	381526075095003	ENVIRONMENTAL	112SNPX	GW	4040	7.0
	04-04-00	1615		ENVIRONMENTAL	112SNPX	GW	4040	7.0
WO Cg 87	08-31-00	0830	381953075051401	ENVIRONMENTAL	122OCNC	GW	8030	10.0
WO Dg 23	01-21-00	1030	381428075081401	ENVIRONMENTAL	121BVDM	GW	4040	5.0
	04-07-00	0830		ENVIRONMENTAL	121BVDM	GW	4040	5.2
WO Dg 25	01-21-00	1130	381428075081403	ENVIRONMENTAL	111BRRR	GW	4040	5.0
	04-07-00	0730		ENVIRONMENTAL	111BRRR	GW	4040	5.0
WO Ee 18	01-20-00	1000	380959075171101	ENVIRONMENTAL	122CSPK	GW	4040	4.2
	04-06-00	1115		ENVIRONMENTAL	122CSPK	GW	4040	4.2
WO Ee 19	01-20-00	1100	380959075171102	ENVIRONMENTAL	121BVDM	GW	4040	4.2
	04-06-00	1230		ENVIRONMENTAL	121BVDM	GW	4040	4.2
WO Ee 20	01-20-00	1230	380959075171103	ENVIRONMENTAL	112SNPX	GW	4040	4.2
	04-06-00	1345		ENVIRONMENTAL	112SNPX	GW	4040	4.2
WO Ee 21	01-14-00	1115	380930075180601	ENVIRONMENTAL	121BVDM	GW	4040	11.1
	04-06-00	1715		ENVIRONMENTAL	121BVDM	GW	4040	11.1
WO Ee 22	01-14-00	1215	380930075180602	ENVIRONMENTAL	121BVDM	GW	4040	11.3
	04-06-00	1615		ENVIRONMENTAL	121BVDM	GW	4040	11.3
WO Ee 23	01-19-00	1200	380942075185501	ENVIRONMENTAL	121BVDM	GW	4040	35.5
	04-07-00	1140		ENVIRONMENTAL	121BVDM	GW	4040	35.5
WO Ee 24	01-19-00	1330	380942075185502	ENVIRONMENTAL	121BVDM	GW	4040	35.5
	04-07-00	1225		ENVIRONMENTAL	121BVDM	GW	4040	35.3
WO Ee 25	01-19-00	1530	380942075185503	ENVIRONMENTAL	112OMAR	GW	4040	35.6
	04-07-00	1315		ENVIRONMENTAL	112OMAR	GW	4040	35.6
WO Ef 26	02-16-00	1130	380837075112201	ENVIRONMENTAL	122CSPK	GW	4040	6.1
	04-05-00	0900		ENVIRONMENTAL	122CSPK	GW	4040	6.1
WO Ef 27	02-16-00	1200	380837075112202	ENVIRONMENTAL	121BVDM	GW	4040	6.2
	04-05-00	1000		ENVIRONMENTAL	121BVDM	GW	4040	6.2
WO Fc 50	01-12-00	1500	380129075253701	ENVIRONMENTAL	122CSPK	GW	4040	35.9
	04-12-00	1350		ENVIRONMENTAL	122CSPK	GW	4040	35.9
	04-12-00	1355		REPLICATE	122CSPK	GW	4040	35.9
	04-12-00	1400		BLANK			--	--
WO Fc 53	01-12-00	1645	380138075260102	ENVIRONMENTAL	112OMAR	GW	4040	35.7
	04-12-00	1300		ENVIRONMENTAL	112OMAR	GW	4040	35.7
WO Fc 55	01-13-00	1200	380215075271701	ENVIRONMENTAL	122CSPK	GW	4040	26.9
	04-12-00	1030		ENVIRONMENTAL	122CSPK	GW	4040	27.2
WO Fc 56	01-13-00	1320	380215075271702	ENVIRONMENTAL	112OMAR	GW	4040	26.8
	04-12-00	1115		ENVIRONMENTAL	112OMAR	GW	4040	27.2
WO Fc 57	01-13-00	1610	380255075274601	ENVIRONMENTAL	122CSPK	GW	4040	35.2
	04-12-00	0830		ENVIRONMENTAL	122CSPK	GW	4040	35.2
WO Fc 58	01-13-00	1700	380255075274602	ENVIRONMENTAL	112OMAR	GW	4040	34.8
	04-12-00	0930		ENVIRONMENTAL	112OMAR	GW	4040	35.2

Geologic Unit (aquifer): 111BRRR - Barrier Sand
112OMAR - Omar Formation
112RDGV - Red Gravelly Facies
112SNPX - Sinepuxent Formation
121BVDM - Beaverdam Sand
122CSPK - Chesapeake Group
122MNKN - Manokin Aquifer
122OCNC - Ocean City Aquifer
122PCMK - Pocomoke Aquifer

Site Type: GW - Ground Water

Sampling Method: 4040 - Submersible pump
8030 - Grab sample at water-supply tap

QUALITY OF GROUND WATER DATA

WORCESTER COUNTY, MARYLAND--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)	DEPTH TO BOTTOM OF SAMPLE INTER-VAL (FT) (72016)	DEPTH OF SAMPLE INTER-VAL (FT) (72015)	PUMP OR FLOW PERIOD TO SAMPLING (MIN) (72004)	FLOW RATE (G/M) (00059)	OXYGEN, DIS-SOLVED (PER-CENT SATURATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)
WO Ah 36	08-30-00	25.92	430.00	430	420	45	28.5	--	--	6.5
WO Ah 38	08-30-00	--	430.00	430	330	--	--	--	--	6.2
WO Bg 60	06-06-00	--	265.00	265	250	25	3.0	61	6.1	7.7
	06-06-00	--	265.00	265	250	25	--	--	--	--
WO Bh 28	08-30-00	--	294.00	294	249	--	--	--	--	6.7
WO Bh 29	08-30-00	--	294.00	294	248	--	--	--	--	6.7
WO Bh 34	08-30-00	14.07	353.00	353	337	20	7.9	--	--	6.8
WO Bh 84	08-30-00	4.98	89.00	89	84	20	7.9	--	--	6.7
WO Bh 85	08-30-00	6.55	195.00	195	190	30	7.9	--	--	6.6
WO Bh 89	08-30-00	28.95	500.00	500	388	20	7.9	--	--	7.1
WO Bh 98	08-31-00	93.92	275.00	275	255	60	7.4	--	--	7.4
	08-31-00	--	310.00	275	255	--	--	--	--	--
WO Bh 101	11-19-99	--	312.00	307	237	--	--	--	--	--
	08-31-00	--	312.00	307	237	--	--	--	--	6.9
WO Cf 56	02-04-00	3.91	90.00	90	87	45	1.0	--	--	5.7
	04-03-00	2.60	90.00	90	87	60	1.0	--	--	5.9
WO Cf 57	02-04-00	3.62	60.00	60	57	40	1.0	--	4.4	5.7
	04-03-00	2.30	60.00	60	57	50	.50	--	5.3	5.5
WO Cf 58	02-04-00	3.36	25.00	25	22	45	.50	--	4.2	6.4
	04-04-00	2.35	25.00	25	22	10	1.0	--	7.0	5.9
WO Cf 59	02-03-00	2.80	21.00	21	18	30	1.0	--	2.3	6.7
	04-04-00	3.04	21.00	21	18	30	1.0	--	--	5.7
WO Cg 33	08-31-00	--	290.00	290	260	--	--	--	--	7.4
WO Cg 34	11-19-99	--	300.00	--	--	--	--	--	--	7.1
WO Cg 84	02-02-00	4.12	80.00	80	77	45	1.0	--	--	7.0
	04-04-00	3.62	80.00	80	77	25	1.0	--	--	7.1
WO Cg 85	02-02-00	3.55	55.00	55	52	45	1.0	--	--	7.2
	04-04-00	3.21	55.00	55	52	25	1.0	--	--	6.6
WO Cg 86	02-03-00	1.58	15.00	15	12	30	1.0	--	3.0	5.1
	04-04-00	1.63	15.00	15	12	10	1.0	--	3.8	5.1
WO Cg 87	08-31-00	--	310.00	305	250	--	--	--	--	7.0
WO Dg 23	01-21-00	2.49	85.00	85	82	30	1.0	--	--	6.5
	04-07-00	3.58	85.00	85	82	50	1.0	--	--	6.2
WO Dg 25	01-21-00	2.71	15.00	15	12	10	1.0	--	--	7.2
	04-07-00	2.20	15.00	15	12	30	.50	--	--	6.9
WO Ee 18	01-20-00	.03	80.00	80	77	30	1.0	--	--	5.8
	04-06-00	*+.01	80.00	80	77	35	1.0	--	--	5.7
WO Ee 19	01-20-00	.04	50.00	50	47	20	1.0	--	--	6.3
	04-06-00	.00	50.00	50	47	30	1.0	--	--	6.0
WO Ee 20	01-20-00	2.06	15.00	15	12	30	.50	--	--	6.2
	04-06-00	2.67	15.00	15	12	20	1.0	--	--	6.1
WO Ee 21	01-14-00	3.36	60.00	60	57	30	1.0	--	--	5.3
	04-06-00	2.68	60.00	60	57	50	.50	--	2.1	5.8
WO Ee 22	01-14-00	3.54	20.00	20	17	30	1.0	--	--	5.9
	04-06-00	2.87	20.00	20	17	30	.50	--	4.3	7.0
WO Ee 23	01-19-00	23.46	90.00	90	87	30	1.0	--	--	5.4
	04-07-00	22.42	90.00	90	87	35	1.0	--	--	5.4
WO Ee 24	01-19-00	23.28	50.00	50	47	90	1.0	--	.6	5.3
	04-07-00	22.22	50.00	50	47	15	1.0	--	--	5.1
WO Ee 25	01-19-00	9.30	25.00	25	22	30	1.0	--	4.7	4.8
	04-07-00	7.07	25.00	25	22	10	1.0	--	6.5	4.7
WO Ef 26	02-16-00	5.43	100.00	100	97	60	.25	--	--	6.6
	04-05-00	5.16	100.00	100	97	40	1.0	--	--	6.5
WO Ef 27	02-16-00	5.69	35.00	35	32	30	.25	--	--	7.0
	04-05-00	5.70	35.00	35	32	15	1.0	--	--	7.2
WO Fc 50	01-12-00	9.47	50.00	50	47	30	.50	--	--	5.8
	04-12-00	8.25	50.00	50	47	20	1.0	--	--	5.6
	04-12-00	8.25	50.00	50	47	25	1.0	--	--	5.6
	04-12-00	--	--	--	--	--	--	--	--	--
WO Fc 53	01-12-00	1.60	25.00	25	22	30	.50	--	.2	7.9
	04-12-00	2.64	25.00	25	22	15	1.0	--	--	7.7
WO Fc 55	01-13-00	10.00	50.00	50	47	30	.50	--	--	5.9
	04-12-00	8.45	50.00	50	47	20	1.0	--	--	6.0
WO Fc 56	01-13-00	9.03	25.00	25	22	25	.50	--	6.8	5.5
	04-12-00	7.34	25.00	25	22	15	1.0	--	7.3	5.4
WO Fc 57	01-13-00	9.09	49.00	49	46	20	.50	--	--	6.3
	04-12-00	8.23	49.00	49	46	20	1.0	--	--	6.2
WO Fc 58	01-13-00	3.24	25.00	25	22	25	.50	--	--	6.0
	04-12-00	3.83	25.00	25	22	10	1.0	--	--	5.9

* Readings above landsurface indicated by "+".

QUALITY OF GROUND WATER DATA

WORCESTER COUNTY, MARYLAND--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
WO Ah 36	08-30-00	779	25.0	16.9	84	22.9	6.54	5.2	109	129
WO Ah 38	08-30-00	554	24.0	17.2	77	21.6	5.52	4.4	66.2	104
WO Bg 60	06-06-00	455	16.5	15.5	150	39.0	13.2	10.0	29.9	--
	06-06-00	--	--	--	150	39.0	13.2	9.7	29.5	--
WO Bh 28	08-30-00	916	28.0	14.8	110	17.4	16.2	10.5	125	143
WO Bh 29	08-30-00	565	28.0	14.0	88	14.5	12.4	8.9	68.6	129
WO Bh 34	08-30-00	293	23.0	16.6	62	14.6	6.23	4.9	11.7	143
WO Bh 84	08-30-00	394	28.0	17.0	88	17.8	10.6	12.4	31.3	116
WO Bh 85	08-30-00	420	28.5	16.8	93	14.9	13.6	11.3	37.2	142
WO Bh 89	08-30-00	2330	28.0	17.4	270	27.9	48.1	18.1	309	226
WO Bh 98	08-31-00	453	26.5	16.8	170	39.6	16.2	10.7	21.7	194
	08-31-00	--	--	--	170	40.1	16.4	10.8	23.2	--
WO Bh 101	11-19-99	430	16.0	16.5	150	37.5	13.6	10.5	22.0	182
	08-31-00	425	24.0	17.1	150	36.7	13.7	9.9	23.4	201
WO Cf 56	02-04-00	85	.0	13.1	12	3.13	.91	.8	9.6	21
	04-03-00	98	18.0	14.9	12	3.26	.93	.8	9.9	23
WO Cf 57	02-04-00	68	2.0	13.1	10	2.30	.96	.7	8.7	21
	04-03-00	69	19.0	14.8	10	2.30	.96	.8	8.4	20
WO Cf 58	02-04-00	95	5.0	11.8	19	4.26	2.13	1.0	9.6	31
	04-04-00	92	20.5	18.4	17	3.54	2.04	1.0	9.0	29
WO Cf 59	02-03-00	188	4.0	10.7	40	6.72	5.75	1.2	18.2	75
	04-04-00	180	16.5	14.4	35	5.97	4.97	1.1	16.5	58
WO Cg 33	08-31-00	444	26.0	17.1	130	33.4	11.1	8.3	35.3	191
WO Cg 34	11-19-99	433	15.0	--	130	34.5	10.8	8.8	35.4	179
WO Cg 84	02-02-00	317	2.0	14.5	120	36.1	7.47	1.9	12.0	128
	04-04-00	229	17.5	14.7	120	36.8	7.49	1.7	11.6	133
WO Cg 85	02-02-00	492	2.0	14.2	200	59.0	13.3	2.1	17.1	213
	04-04-00	492	17.0	14.9	200	59.8	13.3	2.0	16.7	221
WO Cg 86	02-03-00	102	7.0	13.4	16	.73	3.55	.6	10.1	10
	04-04-00	97	18.0	13.4	15	.49	3.29	.6	9.3	1
WO Cg 87	08-31-00	494	26.0	17.1	130	31.6	11.9	9.2	42.9	168
WO Dg 23	01-21-00	270	-4.0	14.6	53	12.1	5.49	3.6	30.5	64
	04-07-00	245	15.5	15.6	46	10.2	5.09	3.4	23.6	36
WO Dg 25	01-21-00	1420	-4.0	13.5	270	53.3	33.9	12.6	147	156
	04-07-00	1440	14.5	12.6	280	57.4	33.2	12.6	155	155
WO Ee 18	01-20-00	179	.5	14.7	39	8.35	4.44	1.9	15.0	54
	04-06-00	178	16.0	15.8	39	7.98	4.66	1.6	15.4	13
WO Ee 19	01-20-00	354	1.5	15.0	120	24.0	14.4	13.9	8.9	51
	04-06-00	342	17.5	16.6	120	23.6	14.4	15.2	9.0	53
WO Ee 20	01-20-00	218	1.0	14.8	56	11.0	6.99	1.0	15.0	38
	04-06-00	214	23.0	15.6	59	11.5	7.34	.6	15.1	30
WO Ee 21	01-14-00	159	-2.0	13.7	25	5.86	2.51	1.3	15.9	56
	04-06-00	167	24.0	14.2	26	6.24	2.51	1.1	16.9	17
WO Ee 22	01-14-00	92	-1.0	13.4	10	2.44	.91	1.1	12.6	19
	04-06-00	105	25.0	13.8	10	2.61	.91	1.0	12.7	19
WO Ee 23	01-19-00	136	3.0	14.5	18	4.58	1.57	1.6	15.7	8
	04-07-00	133	20.0	15.7	16	3.83	1.60	1.4	15.0	11
WO Ee 24	01-19-00	180	4.5	14.1	23	5.00	2.60	1.5	19.2	11
	04-07-00	180	21.0	16.0	23	4.79	2.75	1.3	18.5	10
WO Ee 25	01-19-00	233	3.5	15.8	72	9.07	12.0	1.5	7.2	6
	04-07-00	238	21.0	16.1	75	9.13	12.6	1.4	6.8	1
WO Ef 26	02-16-00	10000	9.0	13.8	9900	1180	1690	25.1	11400	390
	04-05-00	--	8.0	14.7	10000	1180	1740	275	12400	370
WO Ef 27	02-16-00	10000	9.5	12.9	14000	600	2990	762	22400	380
	04-05-00	--	9.0	12.8	13000	559	2740	719	20800	437
WO Fc 50	01-12-00	294	10.0	14.5	77	17.1	8.43	1.2	19.2	9
	04-12-00	303	15.5	15.0	72	15.0	8.28	1.3	19.4	13
	04-12-00	303	15.5	15.0	72	15.1	8.36	1.3	19.6	13
	04-12-00	--	--	--	--	E.01	.03	<.2	<.1	--
WO Fc 53	01-12-00	467	6.0	15.0	200	75.7	3.62	1.8	14.4	122
	04-12-00	449	15.5	14.1	190	71.4	3.56	1.9	13.6	157
WO Fc 55	01-13-00	134	15.0	14.8	26	6.22	2.53	1.9	10.6	11
	04-12-00	141	16.0	15.0	24	5.97	2.30	1.8	11.3	20
WO Fc 56	01-13-00	278	16.0	16.2	100	18.9	13.4	1.9	5.0	7
	04-12-00	281	17.0	15.1	100	17.6	13.8	1.8	5.4	12
WO Fc 57	01-13-00	233	13.5	14.8	46	9.32	5.63	5.4	13.6	84
	04-12-00	228	16.0	15.3	44	8.81	5.37	5.7	14.3	91
WO Fc 58	01-13-00	186	8.5	14.4	22	4.64	2.64	1.0	18.2	34
	04-12-00	176	17.0	15.5	21	4.27	2.42	.9	19.0	34

E Estimated value.

< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

WORCESTER COUNTY, MARYLAND--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	ANC WATER UNFLTRD IT FIELD	BICAR-BONATE WATER DIS IT FIELD	ANC BICAR-BONATE IT FIELD	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)
		MG/L AS CACO3 (00419)	MG/L AS HCO3 (00453)	MG/L AS HCO3 (00450)	(00940)	(00950)	(00955)	(00945)	(00623)
WO Ah 36	08-30-00	--	157	--	141	<.1	33.2	<.3	--
WO Ah 38	08-30-00	--	127	--	87.3	<.1	34.6	<.3	--
WO Bg 60	06-06-00	202	--	246	17.1	--	--	<.3	.38
	06-06-00	--	--	--	17.4	--	--	<.3	--
WO Bh 28	08-30-00	--	174	--	200	.2	32.6	.4	--
WO Bh 29	08-30-00	--	157	--	99.8	.2	32.7	<.3	--
WO Bh 34	08-30-00	--	174	--	11.9	<.1	29.2	<.3	--
WO Bh 84	08-30-00	--	142	--	44.3	.1	35.1	<.3	--
WO Bh 85	08-30-00	--	173	--	45.1	.1	32.2	<.3	--
WO Bh 89	08-30-00	--	276	--	541	.1	27.4	11.6	--
WO Bh 98	08-31-00	--	240	--	24.7	.1	28.9	<.3	--
	08-31-00	--	--	--	24.8	.1	29.4	<.3	--
WO Bh 101	11-19-99	--	222	--	22.3	.1	28.2	<.3	--
	08-31-00	--	247	--	20.1	.2	28.0	<.3	--
WO Cf 56	02-04-00	--	26	--	10.5	<.1	31.4	3.0	<.10
	04-03-00	--	28	--	10.5	<.1	30.8	3.4	<.10
WO Cf 57	02-04-00	--	26	--	7.7	<.1	19.2	3.1	<.10
	04-03-00	--	25	--	7.9	<.1	19.1	2.7	<.10
WO Cf 58	02-04-00	--	38	--	9.0	<.1	26.5	3.3	<.10
	04-04-00	--	36	--	9.5	<.1	25.1	3.8	E.10
WO Cf 59	02-03-00	--	91	--	16.4	.1	30.1	2.2	.24
	04-04-00	--	70	--	20.6	<.1	33.6	2.1	.14
WO Cg 33	08-31-00	--	230	--	29.4	.1	25.1	<.3	--
WO Cg 34	11-19-99	--	218	--	32.8	.1	25.7	<.3	--
WO Cg 84	02-02-00	--	160	--	16.3	.2	36.1	<.3	<.10
	04-04-00	--	160	--	16.6	.1	36.6	<.3	.32
WO Cg 85	02-02-00	--	260	--	21.9	.1	34.8	<.3	<.10
	04-04-00	--	270	--	22.6	.1	35.1	<.3	.50
WO Cg 86	02-03-00	--	12	--	--	<.1	10.0	--	<.10
	04-04-00	--	1	--	18.2	<.1	9.3	8.4	<.10
WO Cg 87	08-31-00	--	200	--	51.8	.1	27.0	<.3	--
WO Dg 23	01-21-00	--	78	--	40.3	<.1	12.1	9.4	.38
	04-07-00	--	44	--	33.4	<.1	10.5	15.2	.29
WO Dg 25	01-21-00	--	190	--	319	<.1	13.9	37.2	.73
	04-07-00	--	190	--	329	<.1	14.1	35.5	.73
WO Ee 18	01-20-00	--	66	--	17.3	<.1	26.4	28.9	<.10
	04-06-00	--	16	--	16.7	<.1	26.9	28.0	<.10
WO Ee 19	01-20-00	--	62	--	14.7	<.1	16.5	93.9	<.10
	04-06-00	--	64	--	13.9	.2	16.3	93.3	E.10
WO Ee 20	01-20-00	--	47	--	15.5	.1	17.5	40.8	.20
	04-06-00	--	37	--	14.7	<.1	16.5	41.4	.16
WO Ee 21	01-14-00	--	68	--	19.6	<.1	31.9	23.2	<.10
	04-06-00	--	21	--	20.1	<.1	31.1	24.5	E.10
WO Ee 22	01-14-00	--	24	--	14.5	<.1	32.2	1.1	<.10
	04-06-00	--	23	--	14.3	<.1	31.7	1.2	<.10
WO Ee 23	01-19-00	--	10	--	23.2	<.1	30.4	10.1	<.10
	04-07-00	--	14	--	22.9	<.1	30.8	9.5	<.10
WO Ee 24	01-19-00	--	14	--	28.3	<.1	24.0	24.4	<.10
	04-07-00	--	12	--	27.1	<.1	25.0	23.4	<.10
WO Ee 25	01-19-00	--	7	--	23.0	<.1	17.3	24.6	<.10
	04-07-00	--	1	--	22.5	<.1	17.0	23.3	<.10
WO Ef 26	02-16-00	--	480	--	22800	<.5	21.6	2650	23
	04-05-00	--	450	--	24000	<.1	21.8	2800	24
WO Ef 27	02-16-00	--	460	--	42600	.2	19.8	5640	7.0
	04-05-00	--	530	--	39200	.3	17.4	5580	7.6
WO Fc 50	01-12-00	--	11	--	25.5	<.1	24.7	82.9	<.10
	04-12-00	--	16	--	25.0	<.1	24.0	81.3	E.10
	04-12-00	--	16	--	24.3	<.1	24.1	81.8	E.10
	04-12-00	--	--	--	<.3	<.1	<.1	<.3	<.10
WO Fc 53	01-12-00	--	150	--	30.2	<.1	25.0	42.1	E.10
	04-12-00	--	190	--	26.9	<.1	23.7	36.5	.15
WO Fc 55	01-13-00	--	14	--	11.8	<.1	25.1	22.0	<.10
	04-12-00	--	25	--	11.1	<.1	23.6	21.6	E.10
WO Fc 56	01-13-00	--	9	--	15.2	<.1	15.6	29.8	<.10
	04-12-00	--	15	--	14.7	<.1	14.6	29.6	E.10
WO Fc 57	01-13-00	--	100	--	16.3	<.1	56.7	<.3	4.4
	04-12-00	--	110	--	16.3	<.1	53.7	<.3	4.6
WO Fc 58	01-13-00	--	42	--	23.2	.1	39.5	15.5	1.5
	04-12-00	--	42	--	21.5	<.1	37.4	12.9	1.5

E Estimated value.
 < Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER DATA

WORCESTER COUNTY, MARYLAND--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL	NITRO- GEN, AMMONIA DIS- SOLVED	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN, ORGANIC DIS- SOLVED	NITRO- GEN, TOTAL	PHOS- PHATE, ORTHO, DIS- SOLVED	PHOS- PHORUS DIS- SOLVED
		(MG/L AS N) (00625)	(MG/L AS N) (00608)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00607)	(MG/L AS N) (00600)	(MG/L AS PO4) (00660)	(MG/L AS P) (00666)
WO Ah 36	08-30-00	--	--	--	--	--	--	--	--
WO Ah 38	08-30-00	--	--	--	--	--	--	--	--
WO Bg 60	06-06-00	.39	.337	<.050	<.010	M	--	.291	.114
	06-06-00	--	--	--	--	--	--	--	--
WO Bh 28	08-30-00	--	--	--	--	--	--	--	--
WO Bh 29	08-30-00	--	--	--	--	--	--	--	--
WO Bh 34	08-30-00	--	--	--	--	--	--	--	--
WO Bh 84	08-30-00	--	--	--	--	--	--	--	--
WO Bh 85	08-30-00	--	--	--	--	--	--	--	--
WO Bh 89	08-30-00	--	--	--	--	--	--	--	--
WO Bh 98	08-31-00	--	--	--	--	--	--	--	--
	08-31-00	--	--	--	--	--	--	--	--
WO Bh 101	11-19-99	--	--	--	--	--	--	--	--
	08-31-00	--	--	--	--	--	--	--	--
WO Cf 56	02-04-00	.49	.037	<.050	<.010	--	--	.141	.051
	04-03-00	.23	<.020	<.050	<.010	--	--	--	<.006
WO Cf 57	02-04-00	<.10	<.020	.479	<.010	--	--	.034	<.006
	04-03-00	E.10	<.020	.461	<.010	--	--	--	<.006
WO Cf 58	02-04-00	.37	.079	<.050	<.010	--	--	--	.019
	04-04-00	3.2	.079	<.050	<.010	--	--	--	E.005
WO Cf 59	02-03-00	6.3	.141	<.050	<.010	.10	--	.074	.022
	04-04-00	.29	.148	<.050	<.010	--	--	.169	.055
WO Cg 33	08-31-00	--	--	--	--	--	--	--	--
WO Cg 34	11-19-99	--	--	--	--	--	--	--	--
WO Cg 84	02-02-00	.43	.332	<.050	<.010	--	--	.414	.164
	04-04-00	.39	.353	<.050	<.010	--	--	.506	.181
WO Cg 85	02-02-00	.65	.536	.127	<.010	--	.77	.291	.135
	04-04-00	.53	.568	<.050	<.010	--	--	.497	.168
WO Cg 86	02-03-00	<.10	<.020	<.050	<.010	--	--	--	<.006
	04-04-00	<.10	<.020	<.050	<.010	--	--	--	<.006
WO Cg 87	08-31-00	--	--	--	--	--	--	--	--
WO Dg 23	01-21-00	.40	.197	<.050	<.010	.18	--	.279	.081
	04-07-00	.34	.157	<.050	<.010	.14	--	.153	.057
WO Dg 25	01-21-00	.76	.575	<.050	<.010	.16	--	.215	.074
	04-07-00	.69	.498	<.050	<.010	.24	--	.166	.075
WO Ee 18	01-20-00	<.10	<.020	1.77	<.010	--	--	--	.008
	04-06-00	<.10	<.020	1.92	<.010	--	--	--	.006
WO Ee 19	01-20-00	<.10	<.020	<.050	<.010	--	--	.031	.012
	04-06-00	E.10	<.020	<.050	<.010	--	--	--	.011
WO Ee 20	01-20-00	.19	.131	<.050	<.010	.10	--	.107	.028
	04-06-00	.28	.113	<.050	<.010	.10	--	.067	.016
WO Ee 21	01-14-00	E.10	.033	<.050	<.010	--	--	.049	.008
	04-06-00	.11	.035	<.050	<.010	--	--	.043	.011
WO Ee 22	01-14-00	<.10	<.020	<.050	<.010	--	--	.092	.007
	04-06-00	E.10	.020	<.050	<.010	--	--	.043	.008
WO Ee 23	01-19-00	<.10	.027	.158	<.010	--	--	--	.009
	04-07-00	E.10	<.020	.244	<.010	--	--	--	E.005
WO Ee 24	01-19-00	E.10	.022	<.050	<.010	--	--	.058	.023
	04-07-00	.12	<.020	<.050	<.010	--	--	.052	.023
WO Ee 25	01-19-00	<.10	<.020	9.77	<.010	--	--	--	<.006
	04-07-00	.13	<.020	10.0	<.010	--	10	--	<.006
WO Ef 26	02-16-00	22	22.5	<.050	<.010	.18	--	.083	.047
	04-05-00	25	23.4	<.050	.011	.94	--	.460	.222
WO Ef 27	02-16-00	7.0	6.80	<.050	<.010	.24	--	4.81	.744
	04-05-00	7.5	6.54	<.050	<.010	1.0	--	1.26	.270
WO Fc 50	01-12-00	E.10	.021	<.050	<.010	--	--	.092	.033
	04-12-00	E.10	.026	<.050	<.010	--	--	.074	.031
	04-12-00	E.10	.023	<.050	<.010	--	--	.071	.033
	04-12-00	<.10	<.020	<.050	<.010	--	--	--	<.006
WO Fc 53	01-12-00	.18	.130	<.050	<.010	--	--	.297	.097
	04-12-00	.13	.108	<.050	<.010	M	--	.254	.094
WO Fc 55	01-13-00	E.10	.029	<.050	<.010	--	--	.190	.072
	04-12-00	E.10	.029	<.050	<.010	--	--	.147	.093
WO Fc 56	01-13-00	E.10	<.020	15.5	<.010	--	--	.040	.006
	04-12-00	E.10	<.020	15.2	<.010	--	--	--	.006
WO Fc 57	01-13-00	5.1	4.12	<.050	<.010	.31	--	1.88	.596
	04-12-00	5.1	4.29	<.050	<.010	.32	--	1.90	.557
WO Fc 58	01-13-00	1.9	1.42	<.050	<.010	.12	--	.586	.179
	04-12-00	1.6	1.33	<.050	<.010	.21	--	.534	.177

E Estimated value.

< Actual value is known to be less than the value shown.

M Presence of material verified but not quantified.

QUALITY OF GROUND WATER DATA

WORCESTER COUNTY, MARYLAND--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WELL NUMBER	DATE	PHOS-	PHOS-	CARBON	SOLIDS,	SOLIDS,	BROMIDE	IRON,	MANGA-
		ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHORUS TOTAL (MG/L AS P) (00665)	DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	RESIDUE AT 180 DEG. C SOLVED (70300)	CONSTI- TUENTS, DIS- SOLVED (70301)			DIS- SOLVED (MG/L AS BR) (71870)
WO Ah 36	08-30-00	--	--	--	427	--	.59	12700	122
WO Ah 38	08-30-00	--	--	--	313	--	.23	12200	127
WO Bg 60	06-06-00	.095	.207	7.3	--	--	--	170	--
	06-06-00	--	--	--	--	--	--	320	--
WO Bh 28	08-30-00	--	--	--	484	494	.82	5640	116
WO Bh 29	08-30-00	--	--	--	319	--	.67	5050	101
WO Bh 34	08-30-00	--	--	--	159	--	.06	23300	192
WO Bh 84	08-30-00	--	--	--	227	--	.34	5470	77
WO Bh 85	08-30-00	--	--	--	240	--	.22	5000	100
WO Bh 89	08-30-00	--	--	--	1160	1120	1.87	2720	103
WO Bh 98	08-31-00	--	--	--	255	--	.07	910	27
	08-31-00	--	--	--	270	--	.07	890	28
WO Bh 101	11-19-99	--	--	--	231	--	.05	840	47
	08-31-00	--	--	--	243	--	.05	270	44
WO Cf 56	02-04-00	.046	.140	--	79	75	--	2960	32
	04-03-00	<.010	.054	--	72	74	--	470	31
WO Cf 57	02-04-00	.011	<.008	--	56	58	--	50	7
	04-03-00	<.010	<.008	--	53	56	--	10	5
WO Cf 58	02-04-00	<.010	.208	--	78	77	--	2090	57
	04-04-00	<.010	2.01	--	70	74	--	2080	71
WO Cf 59	02-03-00	.024	4.05	--	118	130	--	3780	226
	04-04-00	.055	.173	--	118	125	--	5290	161
WO Cg 33	08-31-00	--	--	--	256	--	.09	1260	65
WO Cg 34	11-19-99	--	--	--	243	--	.09	1840	69
WO Cg 84	02-02-00	.135	.178	--	201	--	--	490	402
	04-04-00	.165	.183	--	195	--	--	450	397
WO Cg 85	02-02-00	.095	.178	--	296	--	--	910	525
	04-04-00	.162	.184	--	287	--	--	960	523
WO Cg 86	02-03-00	<.010	.018	--	64	--	--	E10	14
	04-04-00	<.010	<.008	--	54	50	--	<10	12
WO Cg 87	08-31-00	--	--	--	274	--	.14	1460	60
WO Dg 23	01-21-00	.091	.085	--	165	153	--	620	46
	04-07-00	.050	.057	--	131	124	--	590	39
WO Dg 25	01-21-00	.070	.074	--	748	711	--	70	35
	04-07-00	.054	.073	--	764	731	--	80	31
WO Ee 18	01-20-00	<.010	E.007	--	126	143	--	100	E1
	04-06-00	<.010	E.006	--	119	118	--	20	E1
WO Ee 19	01-20-00	.010	.014	--	227	218	--	1320	25
	04-06-00	<.010	.014	--	208	219	--	1410	27
WO Ee 20	01-20-00	.035	.044	--	143	135	--	3300	117
	04-06-00	.022	.196	--	126	129	--	2910	118
WO Ee 21	01-14-00	.016	.012	--	117	136	--	2410	50
	04-06-00	.014	.039	--	110	115	--	2260	50
WO Ee 22	01-14-00	.030	.009	--	81	77	--	530	36
	04-06-00	.014	.039	--	76	76	--	260	30
WO Ee 23	01-19-00	<.010	.009	--	106	94	--	960	36
	04-07-00	<.010	E.007	--	99	94	--	990	35
WO Ee 24	01-19-00	.019	.022	--	130	115	--	2430	59
	04-07-00	.017	.036	--	116	111	--	2480	60
WO Ee 25	01-19-00	<.010	<.008	--	140	142	--	E10	53
	04-07-00	<.010	<.008	--	125	138	--	10	48
WO Ef 26	02-16-00	.027	.254	--	42200	40100	--	20300	1590
	04-05-00	.150	.156	--	45300	42700	--	21300	1630
WO Ef 27	02-16-00	1.57	.712	--	77500	75200	--	<300	<132
	04-05-00	.411	.391	--	75600	69900	--	2650	374
WO Fc 50	01-12-00	.030	.036	--	204	191	--	6680	137
	04-12-00	.024	.035	--	201	189	--	6470	126
	04-12-00	.023	.035	--	203	189	--	6550	127
	04-12-00	<.010	<.008	--	<10	--	--	<10	<2
WO Fc 53	01-12-00	.097	.102	--	314	267	--	190	35
	04-12-00	.083	.109	--	286	272	--	120	31
WO Fc 55	01-13-00	.062	.079	--	100	92	--	4840	163
	04-12-00	.048	.110	--	101	95	--	4460	152
WO Fc 56	01-13-00	.013	E.006	--	163	173	--	30	7
	04-12-00	<.010	E.007	--	164	172	--	E10	4
WO Fc 57	01-13-00	.613	.745	--	170	--	--	6820	103
	04-12-00	.619	.618	--	170	--	--	6480	94
WO Fc 58	01-13-00	.191	.263	--	135	135	--	6870	81
	04-12-00	.174	.202	--	131	127	--	5630	73

E Estimated value.
 < Actual value is known to be less than the value shown.

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