### AVERY COUNTY

360455081530101. Local number NC-220; DENR Linville Research Station well H78d8; County number, AV-074.

LOCATION.--Lat 36°04'55", long 81°53'02", Hydrologic Unit 03050101, near Linville. Owner: DENR (North Carolina Department of Environment and Natural Resources).

AQUIFER .-- Phyillite.

WELL CHARACTERISTICS.--Drilled observation well, drilled to 300 ft, diameter 6 in., cased to 10 ft.

INSTRUMENTATION.--Water-level recorder collecting data at 60-minute intervals. Satellite telemetry at station.

DATUM.--Land-surface datum is 3,919.00 ft above NGVD of 1929 (levels by DENR). Measuring point: Top of instrument shelf, 1.00 ft above land-surface datum.

REMARKS.--Well is part of terrane-effects network.

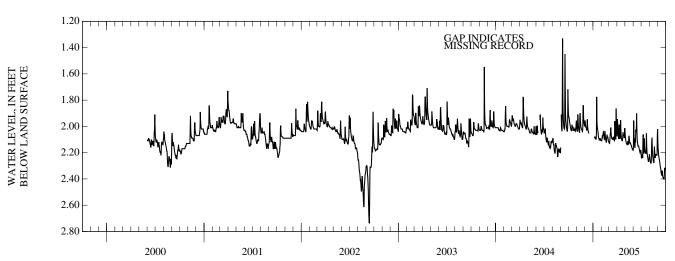
PERIOD OF RECORD.--June 2000 to current year. Records from March 1972 to March 2000 are unpublished and available in the files of the Division of Water Quality, DENR.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 1.16 ft below land-surface datum, Sept. 8, 2004; lowest water level recorded, 2.74 ft below land-surface datum, Sept. 13, 14, 2002.

# DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.93	2.02	1.95		2.11	2.12	2.08	2.06	2.16	2.23	2.23	2.13
2 3	1.93	2.04	1.96		2.11	2.13	1.94	2.08	1.95	2.24	2.25	2.17
3 4	1.94 1.96	2.04 1.91	1.99 2.01		2.10 2.08	2.13 2.13	1.98 2.01	2.10 2.11	2.05 2.10	2.23 2.21	2.26 2.27	2.19 2.22
5	1.96	1.91	2.01	2.08	2.08	2.13	2.01	2.11	2.10	2.21	2.27	2.22
6	1.99	1.98	2.01	2.08	2.07	2.06	2.08	2.13	2.15	2.24	2.28	2.25
7	2.00	2.01	2.01	2.09	2.06	2.06	2.10	2.13	2.16	2.09	2.27	2.26
8	2.01	2.02	2.03	2.08	2.04	2.01	2.04	2.14	2.09	2.06	2.20	2.27
10	2.02 2.03	2.04 2.04	1.99 1.95	2.09 2.10	2.04 2.07	2.04 2.07	1.99 2.04	2.14 2.14	2.12 2.02	2.17 2.21	2.11 2.09	2.29 2.31
11	2.03	2.05	2.00	2.09	2.09	2.09	2.07	2.11	2.04	2.19	2.17	2.32
12	2.04	1.92	2.02	2.10	2.10	2.09	2.09	2.13	2.04	2.09	2.21	2.33
13	1.99	1.90	2.03	2.07	2.10	2.09	2.07	2.14	1.90	2.15	2.23	2.35
14	2.00	1.96	2.04	1.78	2.04	2.09	1.95	2.12	2.01	2.18	2.25	2.36
15	2.00	1.99	2.05	1.95	2.06	2.09	2.02	2.07	2.08	2.19	2.27	2.37
16	2.00	2.00	2.05	2.00	2.08	2.10	2.07	2.08	2.12	2.20	2.27	2.37
17	2.01	2.01	2.05	2.01	2.10	2.10	2.09	2.10	2.13	2.20	2.28	2.34
18	2.03	2.02		2.03	2.11	2.10	2.10	2.12	2.15	2.21	2.21	2.35
19	2.02	2.03		2.04	2.12	2.08	2.11	2.13	2.15	2.17	2.15	2.38
20	2.01	2.03		2.06	2.12	2.09	2.11	2.12	2.15	2.05	2.19	2.39
21	2.01	2.04		2.08	2.08	2.11	2.11	2.13	2.15	2.15	2.22	2.39
22	2.02	2.04		2.09	2.06	2.11	2.08	2.14	2.16	2.19	2.24	2.39
23	2.03	2.00		2.10	2.09	1.96	2.04	2.14	2.17	2.21	2.23	2.39
24	2.03	1.84		2.10	2.08	2.02	2.06	2.14	2.18	2.23	2.22	2.41
25	2.02	1.84		2.10	2.08	2.07	2.07	2.15	2.19	2.24	2.22	2.38
26	2.04	1.93		2.10	2.10	2.10	2.07	2.16	2.20	2.25	2.22	2.33
27	2.03	1.97		2.09	2.11	2.10	2.08	2.17	2.19	2.26	2.21	2.32
28	2.01	1.98		2.10	2.12	1.86	2.09	2.17	2.18	2.27	2.22	2.33
29	1.98	1.99		2.11		1.96	2.02	2.18	2.18	2.25	2.22	2.32
30	1.96	2.00		2.10		2.03	2.01	2.18	2.20	2.25	2.06	2.32
31	2.00			2.11		2.06		2.18		2.21	2.02	

WTR YR 2005 MEAN 2.11 HIGH 1.78 LOW 2.41



### BEAUFORT COUNTY

352548077012701. County number, BO-413; LU-14.

LOCATION.--Lat 35°25'48", long 77°01'27", Hydrologic Unit 03020104, 2.2 mi southeast of intersection of Secondary Road 1181 and North Carolina State Highway 33, .4 mi north on farm road, near Rover.

### WATER-LEVEL RECORDS

AQUIFER .-- Yorktown.

D 4 37

WELL CHARACTERISTICS.--Drilled observation well, depth 27 ft, diameter 2 in., screened interval from 24 to 27 ft.

INSTRUMENTATION .-- Water-level recorder collecting data at 60-minute intervals.

DATUM.--Land-surface datum is 33 ft above NGVD of 1929. Measuring point: Top of casing, 0.8 ft above land-surface datum.

CED

REMARKS .-- Well is part of National Water Quality Assessment Program (NAWQA).

DEC

PERIOD OF RECORD.--December 2004 to September 2005.

NOV

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 7.2 ft below land-surface datum, on several days during the period of record; lowest water level recorded, 10 ft below land-surface datum, Dec. 14, 2004.

# DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

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MAV

TETAT

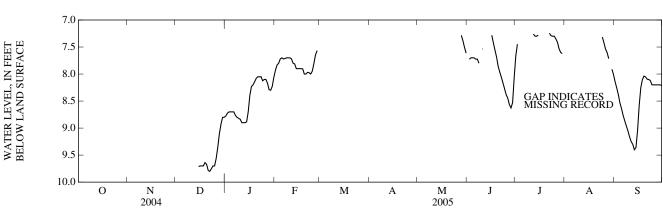
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CED

MAD

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				8.8	7.9					7.7		8.1
2				8.7	7.8				7.7	7.4		8.3
3				8.7	7.8				7.7			8.4
4				8.7	7.7				7.7			8.5
5				8.7	7.7				7.7			8.6
6				8.7	7.7				7.7			8.8
7				8.8	7.7				7.7			8.9
8				8.8	7.7				7.8			9.0
9				8.8	7.7							9.1
10				8.8	7.7				7.5			9.2
11				8.9	7.7							9.2
12				8.9	7.8					7.3		9.3
13				8.9	7.8					7.3		9.4
14				8.9	7.9					7.3		9.4
15			9.7	8.7	7.9					7.3		9.0
10			<i>,,,</i>	0.,						7.10		
16			9.7	8.4	7.9				7.3			8.6
17			9.7	8.2	7.9				7.4			8.3
18			9.7	8.2	7.9				7.6			8.1
19			9.6	8.1	8.0				7.7			8.0
20			9.7	8.1	8.0				7.9			8.1
21			0.0	0.1	0.0				0.0			0.1
21			9.8	8.1	8.0				8.0	7.2		8.1
22			9.8	8.1	8.0				8.1	7.2		8.1
23			9.8	8.0	8.0				8.2	7.3	7.2	8.1
24 25			9.7 9.7	8.1	7.9				8.3	7.3	7.3	8.2
23			9.7	8.1	7.8				8.4	7.3	7.4	8.2
26			9.6	8.1	7.6				8.4	7.3	7.5	8.2
27			9.4	8.2	7.6				8.6	7.4	7.6	8.2
28			9.1	8.3				7.3	8.6	7.5	7.7	8.2
29			8.9	8.3				7.4	8.5	7.6		8.2
30			8.8	8.2				7.5	8.1	7.6	7.9	8.2
31			8.8	8.1				7.6			8.0	

WTR YR 2005 MEAN 8.2 HIGH 7.2 LOW 9.8



# $352548077012701.\ County\ number\ BO\text{-}413.\ LU\text{-}14.$

### WATER-QUALITY RECORDS

PERIOD OF RECORD.--1994, 2001, 2002, October 2004 to September 2005.

REMARKS.--Well is part of National Water Quality Assessment (NAWQA) Program.

### WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Depth of well, feet below LSD (72008)	Depth to water level, feet below LSD (72019)	Alti- tude of land surface feet (72000)	Water level, depth below MP, feet (61055)	Flow rate, instantaneous gal/min (00059)	Turbdty white light, det ang 90+/-30 corretd NTRU (63676)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)
DEC 14	1515	27.0	9.53	33.0	10.33			768	.1	1	6.9	248	16.2
MAR 02	1130	27.0	7.26	33.0	8.06	.10	1.1	758	.1	1	7.0	258	16.0
JUN							.8						
01 09	1030 1100	27.0 27.0	7.67 7.77	33.0 33.0	8.47 8.57	.10 .10	2.1	762 762	.1 .3	.0 3	7.0 7.1	254 268	16.4 18.0
AUG 29	1130	27.0	7.78	33.0	8.58	.10	.4	758	.1	1	6.8	256	18.3
Date	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium adsorp- tion ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)
DEC 14 MAR		39.1	1.31	.69	.3	7.54	104	127	<.20	10.6	.2	47.9	<.2
02 JUN	110	41.2	1.35	.67	.3	7.78	100	122	.18	10.7	.2	48.2	<.2
01 09	100	39.1	1.34	.64	.3	8.11	110	134	.18	10.5	.2	48.2	<.2
AUG 29	110	42.0	1.33	.67	.3	7.94	111	135	.35	10.2	.2	46.2	<.2
Date	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Total nitro- gen, wat flt by anal ysis, mg/L (62854)	Orthophosphate, water, fltrd, mg/L as P (00671)	1-Naph- thol, water, fltrd 0.7u GF ug/L (49295)	2,6-Diethylaniline water fltrd 0.7u GF ug/L (82660)	2Chloro -2',6-' diethyl acet- anilide wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)	2-Ethyl -6- methyl- aniline water, fltrd, ug/L (61620)	3,4-Di- chloro- aniline water fltrd, ug/L (61625)	3,5-Di- chloro- aniline water, fltrd, ug/L (61627)
DEC 14	192	E.04	<.06	.016	.13	.021	<.09	<.006	<.005	<.006	<.004	<.004	
MAR 02	174	.05	<.06	<.008	.14	<.006	<.09	<.006	<.005	<.006	<.004	<.004	
JUN 01 09	193	.06	<.06	.024	.15	<.006	<.09	<.006	<.005	 E.143	<.004	<.004	<.004
AUG 29	199	.07	<.06	.021	.13	.009	<.09	<.006	<.005	<.006	<.004	<.004	<.004

# 352548077012701. County number BO-413. LU-14.—Continued

# WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

		WAIL	-										
Date	4Chloro 2methyl phenol, water, fltrd, ug/L (61633)	Aceto- chlor, water, fltrd, ug/L (49260)	Ala- chlor, water, fltrd, ug/L (46342)	alpha- Endo- sulfan, water, fltrd, ug/L (34362)	Atrazine, water, fltrd, ug/L (39632)	Azin- phos- methyl oxon, water, fltrd, ug/L (61635)	Azin- phos- methyl, water, fltrd 0.7u GF ug/L (82686)	Ben- flur- alin, water, fltrd 0.7u GF ug/L (82673)	Carbaryl, water, fltrd 0.7u GF ug/L (82680)	Carbo- furan, water, fltrd 0.7u GF ug/L (82674)	Chlor- pyrifos oxon, water, fltrd, ug/L (61636)	Chlor- pyrifos water, fltrd, ug/L (38933)	cis- Per- methrin water fltrd 0.7u GF ug/L (82687)
DEC 14	<.006	<.006	<.005		<.007	<.07	<.050	<.010	<.041		<.06	<.005	<.006
MAR 02 JUN	<.006	<.006	<.005		<.007	<.07	<.050	<.010	<.041		<.06	<.005	<.006
01 09	<.006	<.006	<.005	<.005	<.007	<.07	<.050	<.010	<.041	<.020	<.06	<.005	<.006
AUG 29	<.006	<.006	<.005	<.005	<.007	<.07	<.050	<.010	<.041	<.020	<.06	<.005	<.006
Date	cis- Propi- cona- zole, water, fltrd, ug/L (79846)	Cyana- zine, water, fltrd, ug/L (04041)	Cyflu- thrin, water, fltrd, ug/L (61585)	lambda- Cyhalo- thrin, water, fltrd, ug/L (61595)	Cyper- methrin water, fltrd, ug/L (61586)	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170)	Diaz- inon oxon, water, fltrd, ug/L (61638)	Diazi- non, water, fltrd, ug/L (39572)	Dicrotophos, water fltrd, ug/L (38454)	Diel- drin, water, fltrd, ug/L (39381)	Dimethoate, water, fltrd 0.7u GF ug/L (82662)	Disulf- oton sulfone water, fltrd, ug/L (61640)
DEC 14			<.008		<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.006	
MAR 02 JUN			<.027		<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.006	
01 09	<.008	<.018	<.027	<.009	<.009	<.003	<.012		<.005	<.08	<.009	<.006	<.01
AUG 29	<.008	<.018	<.027	<.009	<.009	<.003	<.012		<.005	<.08	<.009	<.006	<.01
Date	Disul- foton, water, fltrd 0.7u GF ug/L (82677)	Endo- sulfan sulfate water, fltrd, ug/L (61590)	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethion monoxon water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)	Etho- prop, water, fltrd 0.7u GF ug/L (82672)	Fenami- phos sulfone water, fltrd, ug/L (61645)	Fenami- phos sulf- oxide, water, fltrd, ug/L (61646)	Fenamiphos, water, fltrd, ug/L (61591)	Desulf- inyl- fipro- nil amide, wat flt ug/L (62169)	Fipro- nil sulfide water, fltrd, ug/L (62167)	Fipro- nil sulfone water, fltrd, ug/L (62168)	Fipronil, water, fltrd, ug/L (62166)
DEC 14	foton, water, fltrd 0.7u GF ug/L	sulfan sulfate water, fltrd, ug/L	water, fltrd 0.7u GF ug/L	monoxon water, fltrd, ug/L	water, fltrd, ug/L	prop, water, fltrd 0.7u GF ug/L	phos sulfone water, fltrd, ug/L	phos sulf- oxide, water, fltrd, ug/L	phos, water, fltrd, ug/L	inyl- fipro- nil amide, wat flt ug/L	nil sulfide water, fltrd, ug/L	nil sulfone water, fltrd, ug/L	nil, water, fltrd, ug/L
DEC 14 MAR 02	foton, water, fltrd 0.7u GF ug/L (82677)	sulfan sulfate water, fltrd, ug/L	water, fltrd 0.7u GF ug/L (82668)	monoxon water, fltrd, ug/L (61644)	water, fltrd, ug/L (82346)	prop, water, fltrd 0.7u GF ug/L (82672)	phos sulfone water, fltrd, ug/L (61645)	phos sulf- oxide, water, fltrd, ug/L (61646)	phos, water, fltrd, ug/L (61591)	inyl- fipro- nil amide, wat flt ug/L (62169)	nil sulfide water, fltrd, ug/L (62167)	nil sulfone water, fltrd, ug/L (62168)	nil, water, fltrd, ug/L (62166)
DEC 14 MAR 02 JUN 01 09	foton, water, fltrd 0.7u GF ug/L (82677)	sulfan sulfate water, fltrd, ug/L	water, fltrd 0.7u GF ug/L (82668)	monoxon water, fltrd, ug/L (61644) <.0020	water, fltrd, ug/L (82346) <.004	prop, water, fltrd 0.7u GF ug/L (82672)	phos sulfone water, fltrd, ug/L (61645) <.049	phos sulf- oxide, water, fltrd, ug/L (61646)	phos, water, fltrd, ug/L (61591)	inyl- fipro- nil amide, wat flt ug/L (62169) <.029	nil sulfide water, fltrd, ug/L (62167)	nil sulfone water, fltrd, ug/L (62168)	nil, water, fltrd, ug/L (62166)
DEC 14 MAR 02 JUN 01	foton, water, fltrd 0.7u GF ug/L (82677)	sulfan sulfate water, fltrd, ug/L (61590)	water, fltrd 0.7u GF ug/L (82668)	monoxon water, fltrd, ug/L (61644) <.0020 <.0020	water, fltrd, ug/L (82346) <.004 <.004	prop, water, fltrd 0.7u GF ug/L (82672)	phos sulfone water, fltrd, ug/L (61645) <.049	phos sulf- oxide, water, fltrd, ug/L (61646)	phos, water, fltrd, ug/L (61591) <.03 <.03	inyl- fipro- nil amide, wat flt ug/L (62169) <.029	nil sulfide water, fltrd, ug/L (62167) <.013	nil sulfone water, fltrd, ug/L (62168) <.024 <.024	nil, water, fltrd, ug/L (62166) <.016
DEC 14 MAR 02 JUN 01 09 AUG	foton, water, fltrd 0.7u GF ug/L (82677)	sulfan sulfate water, fltrd, ug/L (61590)	water, fltrd 0.7u GF ug/L (82668)	monoxon water, fltrd, ug/L (61644) <.0020 <.0020	water, fltrd, ug/L (82346) <.004 <.004	prop, water, fltrd 0.7u GF ug/L (82672)	phos sulfone water, fltrd, ug/L (61645) <.049 <.049	phos sulf- oxide, water, fltrd, ug/L (61646)  <.04	phos, water, fltrd, ug/L (61591) < .03 < .03 < .03	inyl- fipro- nil amide, wat flt ug/L (62169) <.029 <.029	nil sulfide water, fltrd, ug/L (62167) <.013 <.013	nil sulfone water, fltrd, ug/L (62168) <.024 <.024	nil, water, fltrd, ug/L (62166) <.016 <.016
DEC 14 MAR 02 JUN 01 09 AUG 29	foton, water, fltrd 0.7u GF ug/L (82677)  <.02 <.02  Fonofos oxon, water, fltrd, ug/L	sulfan sulfate water, fltrd, ug/L (61590)  <.014 <.014  Fonofos water, fltrd, ug/L	water, fltrd 0.7u GF ug/L (82668)  <.004 <.004  Hexa-zinone, water, fltrd, ug/L	monoxon water, fltrd, ug/L (61644) <.0020 <.0020  <.002 <.002	water, fltrd, ug/L (82346) <.004 <.004 <.004 <.004  Isofen-phos, water, fltrd, ug/L	prop, water, fltrd 0.7u GF ug/L (82672)  <.005 <.005 Mala- oxon, water, fltrd, ug/L	phos sulfone water, fltrd, ug/L (61645) <.049  <.049 <.049 Mala- thion, water, fltrd, ug/L	phos sulf-oxide, water, fltrd, ug/L (61646)  < .04  < .04  < .04  Meta-laxyl, water, fltrd, ug/L	phos, water, fltrd, ug/L (61591)  <.03 <.03 <.03 <.03  Methialthion water, fltrd, ug/L	inyl-fipronil amide, wat flt ug/L (62169) <.029 <.029 <.029 <.029 Methyl paraoxon, water, fltrd, ug/L	nil sulfide water, fltrd, ug/L (62167) < .013 < .013 < .013 < .013 Methyl parathion, water, fltrd 0.7u GF ug/L	nil sulfone water, fltrd, ug/L (62168) <.024 <.024 <.024 <.024 Metola- chlor, water, fltrd, ug/L	mil, water, fltrd, ug/L (62166)  <.016  <.016  <.016  <.016  Metribuzin, water, fltrd, ug/L ug/L
DEC 14 MAR 02 JUN 01 09 AUG 29 Date	foton, water, filtrd 0.7u GF ug/L (82677)  <.02 <.02  Fonofos oxon, water, filtrd, ug/L (61649)	sulfan sulfate water, fltrd, ug/L (61590)  <.014 <.014  Fonofos water, fltrd, ug/L (04095)	water, fltrd 0.7u GF ug/L (82668)  <.004 <.004  Hexa-zinone, water, fltrd, ug/L (04025)	monoxon water, fltrd, ug/L (61644) <.0020 <.0020  <.002 <.002	water, fltrd, ug/L (82346) <.004 <.004 <.004 <.004  Isofen-phos, water, fltrd, ug/L (61594)	prop, water, fltrd 0.7u GF ug/L (82672)  <.005 <.005 Mala- oxon, water, fltrd, ug/L (61652)	phos sulfone water, fltrd, ug/L (61645) <.049 <.049 <.049 Mala- thion, water, fltrd, ug/L (39532)	phos sulf-oxide, water, fltrd, ug/L (61646)  <.04  <.04  <.04  Meta-laxyl, water, fltrd, ug/L (61596)	phos, water, fltrd, ug/L (61591)  <.03 <.03 <.03 <.03  Methialthion water, fltrd, ug/L (61598)	inyl-fipronil amide, wat flt ug/L (62169) <.029 <.029 <.029 <.029 Methyl paraoxon, water, fltrd, ug/L (61664)	nill sulfide water, fltrd, ug/L (62167) < .013 < .013 < .013 < .013 Methyl parathion, water, fltrd 0.7u GF ug/L (82667)	mil sulfone water, fltrd, ug/L (62168) < .024 < .024 < .024 < .024 < .024 < .024 (.024 ) < .024 < .024 < .024 (.024 ) < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .024 < .	mil, water, fltrd, ug/L (62166)  <.016  <.016  <.016  Metribuzin, water, fltrd, ug/L (82630)
DEC 14 MAR 02 JUN 01 O9 AUG 29 Date DEC 14 MAR 02 JUN 01 09 O9 JUN 01 09	foton, water, fltrd 0.7u GF ug/L (82677)  <.02 <.02  Fonofos oxon, water, fltrd, ug/L (61649) <.003	sulfan sulfate water, fltrd, ug/L (61590)  <.014 <.014  Fonofos water, fltrd, ug/L (04095) <.003	water, fltrd 0.7u GF ug/L (82668)  <.004 <.004  Hexa-zinone, water, fltrd, ug/L (04025) <.013	monoxon water, fltrd, ug/L (61644) <.0020 <.0020  <.002 <.002	water, fltrd, ug/L (82346) <.004 <.004 <.004 <.004  Isofen-phos, water, fltrd, ug/L (61594) <.003	prop, water, fltrd 0.7u GF ug/L (82672)  <.005 <.005 Mala- oxon, water, fltrd, ug/L (61652) <.030	phos sulfone water, fltrd, ug/L (61645) <.049  <.049 <.049 Mala- thion, water, fltrd, ug/L (39532) <.027	phos sulf-oxide, water, fltrd, ug/L (61646)  <.04 <.04 <.04  Meta-laxyl, water, fltrd, ug/L (61596) <.005	phos, water, fltrd, ug/L (61591)  <.03 <.03 <.03 <.03  Methialthion water, fltrd, ug/L (61598) <.006	inyl-fipronil amide, wat flt ug/L (62169) <.029 <.029 <.029 <.029 Methyl paraoxon, water, fltrd, ug/L (61664) <.03	nil sulfide water, fltrd, ug/L (62167)  <.013  <.013  <.013  <.013  Methyl parathion, water, fltrd 0.7u GF ug/L (82667)  <.015	nil sulfone water, fltrd, ug/L (62168) < .024 < .024 < .024 < .024 < .024 < .024 < .006 Metolachlor, water, fltrd, ug/L (39415) < .006	mil, water, fltrd, ug/L (62166)  <.016  <.016  <.016  <.016  Metribuzin, water, fltrd, ug/L (82630)  <.006
DEC 14 MAR 02 JUN 01 09 AUG 29 Date DEC 14 MAR 02 JUN 01	foton, water, fltrd 0.7u GF ug/L (82677)  <.02 <.02  Fonofos oxon, water, fltrd, ug/L (61649)  <.003	sulfan sulfate water, fltrd, ug/L (61590)  <- 0.014  <.014  Fonofos water, fltrd, ug/L (04095)  <.003  <.003	water, fltrd 0.7u GF ug/L (82668)  <.004 <.004  Hexa-zinone, water, fltrd, ug/L (04025) <.013 <.013	monoxon water, fltrd, ug/L (61644) <.0020 <.0020  <.002 <.002 Ipro- dione, water, fltrd, ug/L (61593) <.387 <.538	water, fltrd, ug/L (82346) <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004  Lsofen-phos, water, fltrd, ug/L (61594) <.003 <.003	prop, water, fltrd 0.7u GF ug/L (82672)	phos sulfone water, fltrd, ug/L (61645) < .049 < .049 < .049 < .049 < .049 < .049 < .049 < .049 < .049 < .049 < .049	phos sulf-oxide, water, fltrd, ug/L (61646)  < .04  < .04  < .04  < .04  < .05  < .05  < .05	phos, water, fltrd, ug/L (61591)  <.03 <.03 <.03 <.03  Methialthion water, fltrd, ug/L (61598)  <.006 <.006	inyl-fipronil amide, wat flt ug/L (62169) < .029 < .029 < .029 < .029 < .029 < .029 < .029 < .034 < .03 < .03 < .03	nil sulfide water, fltrd, ug/L (62167)   <.013   <.013   <.013   <.013    Methyl parathion, water, fltrd 0.7u GF ug/L (82667)   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015   <.015	mil sulfone water, fltrd, ug/L (62168) < .024 < .024 < .024 < .024 < .024 < .024 < .006 < .006 < .006	mil, water, fltrd, ug/L (62166)  <.016  <.016  <.016  <.016  Metribuzin, water, fltrd, ug/L (82630)  <.006  <.006

# BEAUFORT COUNTY--Continued

352548077012701. County number BO-413. LU-14.—Continued

# WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Mo nat wat fltr 0.7u ug/ (826	e, er, rd GF /L	Myo buta wat fltu ug. (615	anil ter, rd, /L	Oxy- fluor- fen, water, fltrd, ug/L (61600	Per me ali wa flt 0.7u ug	th- n, ter, rd GF /L	Phorate oxon, water, fltrd, ug/L (61666)	Phorwat fltr 0.7u ug/ (826	ter rd GF /L	Phosm oxon, water fltrd, ug/L (61668	Pho w f	osmet ater, ltrd, lg/L 1601)	Pror tor wat fltr ug/ (040	n, er, d, 'L	Prometryn, water, fltrd, ug/L 04036)	wa flt 0.7u ug	ide, ter, rd GF /L	Propanil water fltrd 0.7u Cug/L (8267	l, r, ' l SF 0	Propargite, water, fltrd .7u GF ug/L 82685)
DEC 14		-	<.0	008		<.0	22	<.10	<.0	11	<.05	<	.008	<.0	1	<.005	<.0	004			
MAR 02 JUN		-	<.0	800		<.0	22	<.10	<.0	11	<.05	<	.008	<.0	)1	<.005	<.0	004			
01 09 AUG	<.0		<.0		<.007	<.0		<.10	<.0		<.05	<	.008	<.0		<.005	<.0		<.01	1	<.02
29	<.0	03	<.0	800	<.007	<.0	22	<.10	<.0	11	<.05	<	.008	<.0	1	<.005	<.0	004	<.01	1	<.02
Di	ate	Sin zin wat fltt ug. (040	ne, ter, rd, /L	Teb thiun wat fltr 0.7u ug/ (826	ron I er i ed v GF L	Feflu- thrin, water, fltrd, ug/L 51606)	Ter bufo oxo sulfo wate fltro ug/l (6167	os Ten on fo one wa er, fli d, 0.7u L ug	bu- os, ter, trd o GF y/L 675)	Ter buth azin wate fltre ug/ (040)	yl- b ie, er, d, 0 L	Thio- encarb water fltrd .7u GF ug/L 82681)	tra Pro con zo wa flt ug (798	opi- na- le, ter, rd, /L	Tribu phos, water fltrd, ug/L (61610	- 4 - W , 1 0.7	Tri- flur- alin, vater, fltrd 7u GF 1g/L 2661)	Di chlo vo wat fltr ug/ (387	or- U s, ter d, /L	Jranium natura water, fltrd, ug/L (22703	1
DEC 14. MAR 02. JUN	 }	<.0		<.0 <.0			<.0°		02 02	<.0			-				:.009 :.009	<.0		<.04	
01. 09. AUG		<.0		<.0		<.008	<.0		02	<.0		<.010	<.!	- 01	<.004	· <	 :.009	<.0			
29.		<.0	005	<.0	2 •	<.008	<.0	7 <.	02	<.0	1	<.010	<.	01	<.004	<	009	<.0	)1		

### BERTIE COUNTY

361420077111407. Local number, NC-154; DENR Roxobel Research Station well F22b7; County number, BE-080.

LOCATION.--Lat 36°14'21", long 77°11'13", Hydrologic Unit 03010203, 3.8 mi northeast of Roxobel on Secondary Road 1249. Owner: DENR (North Carolina Department of Environment and Natural Resources).

AQUIFER .-- Surficial aquifer of post-Miocene age.

WELL CHARACTERISTICS.--Drilled observation well, drilled to 12 ft, diameter 4 in., cased to 7 ft, screened interval from 7 to 12 ft.

INSTRUMENTATION.--Water-level recorder collecting data at 60-minute intervals. Satellite telemetry at station.

DATUM.--Land-surface datum is 74 ft above NGVD of 1929 (from topographic map). Measuring point: Top of instrument shelf, 3.05 ft above land-surface datum.

REMARKS.--Well is part of climatic-effects network.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 0.27 ft below land-surface datum, Jan. 30, 31, 2000; lowest water level recorded, 9.31 ft below land-surface datum, Sept. 5, 1987.

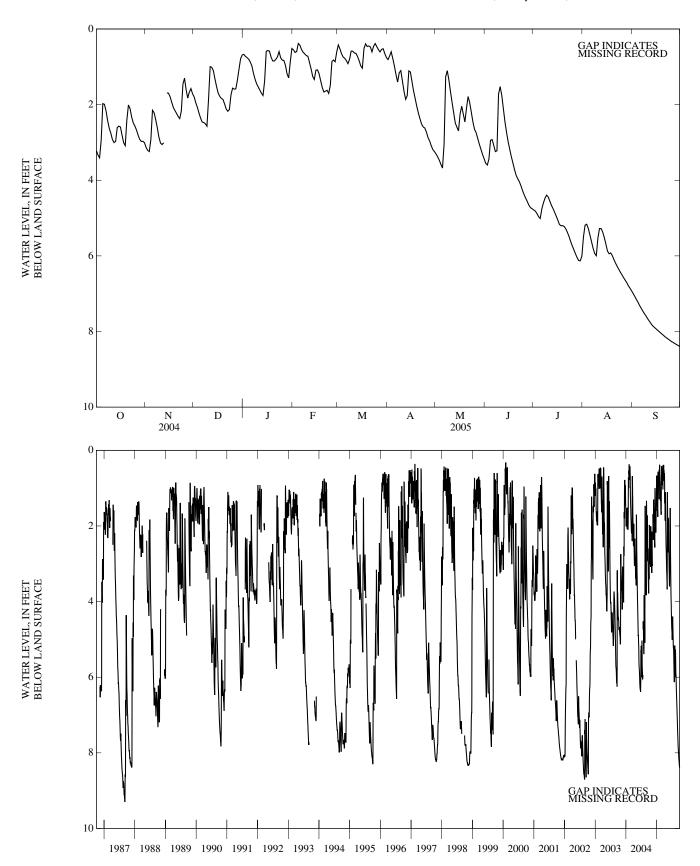
# DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.22	3.13	1.79	0.67	0.55	0.42	0.81	3.31	3.55	4.79	5.50	6.99
2	3.33	3.21	1.95	0.72	0.62	0.53	0.71	3.38	3.60	4.82	5.19	7.07
3	3.41	3.24	2.07	0.76	0.60	0.66	0.60	3.47	3.44	4.88	5.16	7.15
4	2.93	2.92	2.22	0.80	0.38	0.74	0.78	3.58	2.94	4.96	5.27	7.22
5	1.97	2.15	2.35	0.87	0.43	0.78	0.98	3.68	2.92	5.01	5.44	7.31
6	1.99	2.21	2.46	0.97	0.54	0.84	1.21	3.05	3.07	4.76	5.62	7.38
7	2.16	2.40	2.47	1.16	0.61	0.92	1.40	1.26	3.24	4.60	5.80	7.46
8	2.42	2.61	2.50	1.32	0.66	0.80	1.16	1.10	3.22	4.47	5.94	7.52
9	2.62	2.86	2.57	1.45	0.70	0.59	1.10	1.34	1.72	4.39	6.00	7.59
10	2.76	3.02	1.86	1.53	0.72	0.59	1.38	1.66	1.52	4.44	5.53	7.66
11	2.92	3.06	1.00	1.62	0.89	0.63	1.65	1.94	1.75	4.55	5.28	7.72
12	3.00	3.01	1.01	1.70	1.05	0.64	1.86	2.22	2.11	4.66	5.28	7.78
13	2.97		1.10	1.76	1.26	0.73	1.76	2.49	2.46	4.75	5.37	7.84
14	2.61	1.69	1.32	1.37	1.33	0.84	1.11	2.59	2.74	4.85	5.52	7.88
15	2.57	1.70	1.52	0.59	1.09	0.98	1.14	2.70	2.98	4.95	5.69	7.92
16	2.59	1.79	1.70	0.57	1.08	1.04	1.40	2.24	3.19	5.05	5.87	7.96
17	2.81	1.94	1.78	0.59	1.19	0.52	1.65	2.04	3.38	5.17	5.94	7.99
18	3.01	2.07	1.84	0.74	1.37	0.39	1.85	2.25	3.55	5.20	5.92	8.03
19	3.08	2.15	1.86	0.84	1.55	0.46	2.05	2.46	3.72	5.20	5.99	8.07
20	2.41	2.23	1.98	0.85	1.67	0.45	2.23	2.09	3.87	5.22	6.10	8.10
21	2.01	2.31	2.11	0.80	1.64	0.48	2.38	1.79	3.96	5.29	6.19	8.14
22	2.11	2.37	2.18	0.74	1.62	0.61	2.52	1.95	4.04	5.38	6.27	8.17
23	2.33	2.17	2.13	0.60	1.70	0.46	2.59	2.20	4.15	5.49	6.35	8.20
24	2.48	1.46	1.74	0.76	1.49	0.38	2.62	2.46	4.28	5.62	6.43	8.24
25	2.56	1.30	1.56	0.82	0.86	0.47	2.73	2.65	4.39	5.73	6.50	8.27
26 27 28 29 30 31	2.67 2.80 2.92 2.97 2.97 3.01	1.60 1.83 1.67 1.58 1.71	1.59 1.59 1.36 1.06 0.79 0.69	0.83 0.96 1.19 1.29 0.87 0.51	0.82 0.87 0.60 	0.54 0.61 0.54 0.52 0.65 0.75	2.87 2.96 3.09 3.19 3.24	2.74 2.89 3.05 3.18 3.32 3.43	4.48 4.57 4.66 4.73 4.75	5.84 5.94 6.04 6.12 6.13 6.01	6.57 6.64 6.71 6.79 6.85 6.92	8.29 8.32 8.34 8.37 8.39

WTR YR 2005 MEAN 3.02 HIGH 0.38 LOW 8.39

### BERTIE COUNTY—Continued

361420077111407. Local number, NC-154; DENR Roxobel Research Station well F22b7; County number, BE-080.



### BRUNSWICK COUNTY

340416078084202. Local number, NC-180; DENR Bolivia Research Station well FF33d2; County number, BR-078.

LOCATION.--Lat 34°04'17", long 78°08'41", Hydrologic Unit 03040207, in Bolivia at town hall on U.S. Highway 17. Owner: DENR (North Carolina Department of Environment and Natural Resources).

AQUIFER .-- Peedee aquifer of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation well, depth 140 ft, diameter 4 in., cased to 92 ft, open hole to 140 ft.

INSTRUMENTATION.--Water-level recorder collecting data at 60-minute intervals.

DATUM.--Land-surface datum is 40.97 ft above NGVD of 1929. Measuring point: Top of casing 0.89 ft above land-surface datum.

REMARKS .-- Well is part of Brunswick County ground-water study.

PERIOD OF RECORD.--April 1971 to current year. Continuous record May 1987 to September 1997, January 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.05 ft below land-surface datum, May 22, 1972; lowest water level recorded, 15.07 ft below land-surface datum, Sept. 4, 1995.

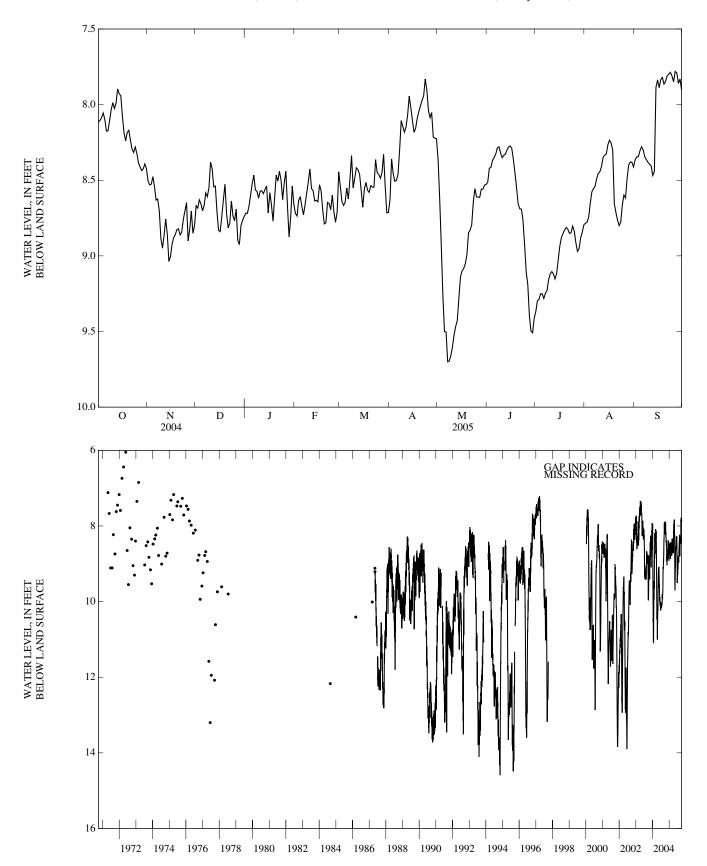
# DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.12	8.51	8.67	8.72	8.72	8.54	8.63	8.36	8.51	9.37	8.78	8.36
2	8.10	8.53	8.68	8.72	8.74	8.64	8.36	8.62	8.42	9.30	8.78	8.35
3	8.09	8.53	8.63	8.67	8.63	8.67	8.46	8.93	8.41	9.29	8.74	8.34
4	8.06	8.48	8.66	8.60	8.61	8.65	8.51	9.26	8.37	9.25	8.65	8.31
5	8.10	8.54	8.70	8.52	8.67	8.55	8.50	9.50	8.35	9.25	8.58	8.28
6	8.18	8.63	8.67	8.47	8.73	8.62	8.46	9.50	8.33	9.28	8.55	8.30
7	8.17	8.62	8.58	8.56	8.66	8.49	8.30	9.70	8.29	9.25	8.54	8.34
8	8.10	8.70	8.61	8.57	8.59	8.34	8.11	9.69	8.28	9.23	8.49	8.36
9	8.03	8.88	8.55	8.62	8.51	8.55	8.14	9.66	8.32	9.16	8.45	8.38
10	7.99	8.95	8.38	8.57	8.43	8.49	8.18	9.60	8.35	9.12	8.44	8.39
11	8.03	8.86	8.42	8.57	8.55	8.42	8.15	9.52	8.34	9.10	8.41	8.40
12	7.99	8.76	8.54	8.59	8.57	8.43	8.07	9.47	8.33	9.12	8.35	8.47
13	7.90	8.86	8.54	8.56	8.64	8.46	7.94	9.43	8.30	9.15	8.33	8.44
14	7.93	9.04	8.71	8.54	8.63	8.57	8.02	9.28	8.28	9.12	8.33	7.89
15	7.94	9.00	8.83	8.72	8.64	8.68	8.10	9.14	8.27	9.03	8.26	7.84
16	8.08	8.92	8.84	8.58	8.53	8.56	8.18	9.10	8.29	8.93	8.24	7.89
17	8.19	8.88	8.74	8.66	8.57	8.51	8.16	9.08	8.36	8.88	8.26	7.83
18	8.24	8.86	8.63	8.77	8.69	8.57	8.09	9.05	8.45	8.85	8.30	7.82
19	8.18	8.83	8.53	8.61	8.79	8.58	8.05	8.99	8.55	8.83	8.66	7.86
20	8.17	8.82	8.72	8.47	8.78	8.54	8.01	8.85	8.66	8.81	8.71	7.85
21	8.24	8.86	8.81	8.51	8.65	8.55	7.97	8.83	8.69	8.82	8.76	7.81
22	8.29	8.84	8.78	8.44	8.65	8.55	7.94	8.80	8.69	8.85	8.80	7.80
23	8.32	8.76	8.64	8.50	8.69	8.36	7.83	8.64	8.76	8.85	8.78	7.79
24	8.28	8.70	8.74	8.63	8.60	8.45	7.91	8.55	8.92	8.80	8.66	7.81
25	8.32	8.65	8.77	8.52	8.71	8.46	8.04	8.61	9.11	8.84	8.60	7.85
26 27 28 29 30 31	8.38 8.41 8.44 8.42 8.39 8.42	8.90 8.82 8.70 8.85 8.80	8.69 8.90 8.93 8.80 8.76 8.74	8.44 8.67 8.88 8.75 8.54 8.66	8.78 8.71 8.44 	8.49 8.45 8.33 8.54 8.72 8.71	8.09 8.05 8.21 8.22 8.23	8.61 8.61 8.56 8.56 8.53 8.53	9.19 9.40 9.50 9.51 9.41	8.91 8.97 8.95 8.88 8.84 8.79	8.62 8.49 8.40 8.38 8.38 8.41	7.78 7.79 7.86 7.83 7.90

WTR YR 2005 MEAN 8.57 HIGH 7.78 LOW 9.70

### BRUNSWICK COUNTY—Continued

340416078084202. Local number, NC-180; DENR Bolivia Research Station well FF33d2; County number, BR-078.



335629078115406. Local number, NC-181; DENR Sunset Harbor Research Station well GG34s6; County number, BR-079.

LOCATION.--Lat 33°56'29", long 78°11'56", Hydrologic Unit 03040207, 1 mi north of Sunset Harbor, and 4.3 mi south of State Highway 211 on Secondary Road 1112. Owner: DENR (North Carolina Department of Environment and Natural Resources).

AQUIFER .-- Peedee aquifer of Late Cretaceous Age.

WELL CHARACTERISTICS.--Drilled observation well, depth 102 ft, diameter 6 in., cased to 84 ft, open hole from 84 to 102 ft.

INSTRUMENTATION.--Water-level recorder collecting data at 60-minute intervals. Satellite telemetry at station.

DATUM.--Land-surface datum is 28.06 ft above NGVD of 1929 (levels by DENR). Measuring point: Top of instrument shelf, 2.02 ft above land-surface datum.

REMARKS.--Well is part of Brunswick County ground-water study. Water levels affected by localized pumping.

PERIOD OF RECORD.--March 1987 to current year. Records from July 1974 to March 1978 are unpublished and available in the files of the Division of Water Quality, DENR.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 4.24 ft below land-surface datum, Oct. 22, 1999; lowest water level recorded, 15.49 ft below land-surface datum, July 29, 2005.

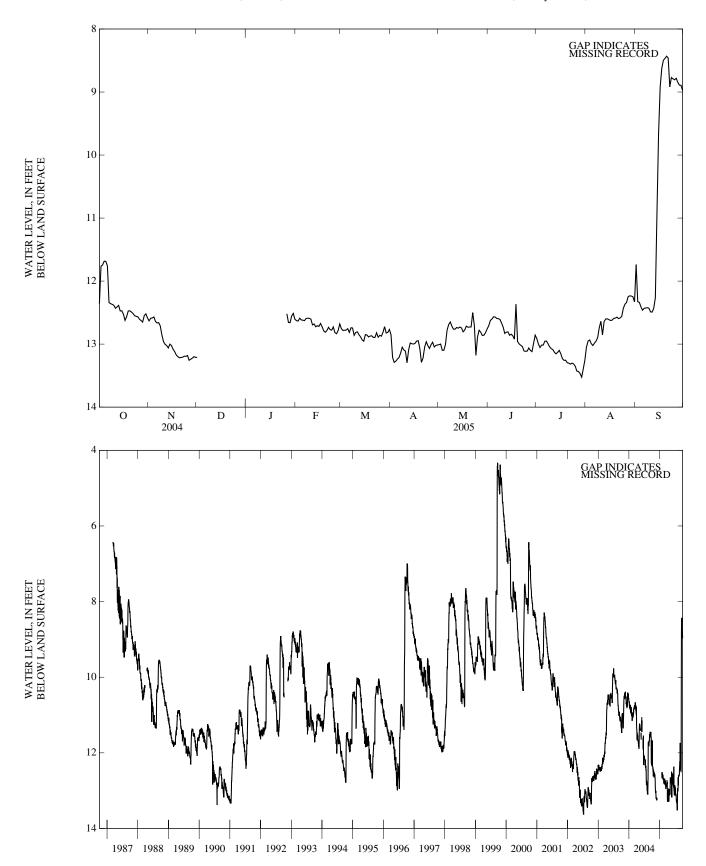
# DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	12.36 11.76 11.74 11.68 11.69	12.63 12.59 12.59 12.57 12.64	13.21   	   	12.63 12.63 12.59 12.62 12.62	12.75 12.78 12.78 12.78 12.78	12.85 13.21 13.29 13.27 13.24	13.01 13.00 13.10 13.10 13.01	12.71 12.62 12.60 12.57 12.57	12.91 13.00 13.05 13.02 13.02	13.05 12.95 12.94 12.99 13.02	11.74 12.33 12.34 12.41 12.46
6 7 8 9 10	11.76 12.34 12.36 12.37 12.38	12.66 12.66 12.71 12.86 12.96	   	   	12.63 12.59 12.59 12.59 12.60	12.81 12.74 12.74 12.86 12.81	13.21 13.14 13.05 13.09 13.11	12.78 12.69 12.65 12.72 12.76	12.59 12.60 12.61 12.67 12.73	12.95 12.95 12.99 13.04 13.07	12.98 12.95 12.89 12.74 12.64	12.43 12.43 12.42 12.43 12.49
11 12 13 14 15	12.43 12.41 12.39 12.47 12.47	13.00 13.02 13.06 13.00 13.02	   	   	12.70 12.68 12.72 12.71 12.72	12.80 12.85 12.88 12.93 12.95	13.30 13.09 12.98 12.99 13.00	12.76 12.74 12.75 12.73 12.74	12.83 12.81 12.81 12.86 12.84	13.09 13.13 13.15 13.13 13.10	12.85 12.64 12.60 12.60 12.61	12.49 12.43 12.26 10.92 9.66
16 17 18 19 20	12.53 12.62 12.56 12.47 12.47	13.08 13.12 13.17 13.20 13.22	   	   	12.67 12.72 12.79 12.81 12.78	12.85 12.86 12.89 12.87 12.87	12.99 12.95 12.95 13.07 13.29	12.80 12.78 12.71 12.73 12.73	12.87 12.92 12.37 12.96 13.00	13.15 13.23 13.26 13.26 13.30	12.62 12.62 12.59 12.59 12.57	8.92 8.63 8.50 8.47 8.43
21 22 23 24 25	12.49 12.51 12.55 12.56 12.57	13.21 13.21 13.19 13.19 13.18	   	   	12.73 12.77 12.78 12.73 12.82	12.89 12.89 12.82 12.89 12.86	13.22 13.05 12.96 13.02 13.07	12.73 12.50 12.70 13.18 12.89	13.02 13.04 13.11 13.11 13.11	13.30 13.32 13.30 13.31 13.35	12.60 12.59 12.56 12.43 12.37	8.46 8.92 8.77 8.79 8.81
26 27 28 29 30 31	12.61 12.63 12.65 12.55 12.52 12.58	13.26 13.24 13.22 13.20 13.21	   	12.52 12.66 12.66 12.55 12.51 12.61	12.84 12.79 12.68 	12.87 12.81 12.72 12.82 12.81 12.77	13.01 12.97 13.05 13.02 13.01	12.78 12.81 12.86 12.86 12.82 12.76	13.06 13.10 13.12 12.99 12.86	13.43 13.43 13.47 13.52 13.39 13.25	12.34 12.25 12.23 12.24 12.25 12.33	8.78 8.85 8.89 8.89 8.98

WTR YR 2005 MEAN 12.59 HIGH 8.43 LOW 13.52

### BRUNSWICK COUNTY—Continued

335629078115406. Local number, NC-181; DENR Sunset Harbor Research Station well GG34s6; County number, BR-079.



### BRUNSWICK COUNTY—Continued

335629078115407. Local number, NC-182; DENR Sunset Harbor Research Station well GG34s7; County number, BR-080.

LOCATION.--Lat 33°56'29", long 78°11'56", Hydrologic Unit 03040207, 1 mi north of Sunset Harbor, and 4.3 mi south of State Highway 211 on Secondary Road 1112. Owner: DENR (North Carolina Department of Environment and Natural Resources).

AQUIFER .-- Surficial Aquifer.

WELL CHARACTERISTICS.--Drilled observation well, drilled to 15 ft, diameter 4 in., cased to 10 ft, screened interval from 10 to 15 ft.

INSTRUMENTATION.--Water-level recorder collecting data at 60-minute intervals. Satellite telemetry at station.

DATUM.--Land-surface datum is 28.06 ft above NGVD of 1929 (levels by DENR). Measuring point: Top of collar on casing, 2.65 ft above land-surface datum.

REMARKS .-- Well is part of Brunswick County ground-water study. Water levels may be affected by local pumping.

PERIOD OF RECORD.--January 1987 to September 1997, October 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 0.19 ft above land-surface datum, Sept. 12, 13, 1996; lowest water level recorded, 14.27 ft below land-surface datum, Oct. 31, 2003.

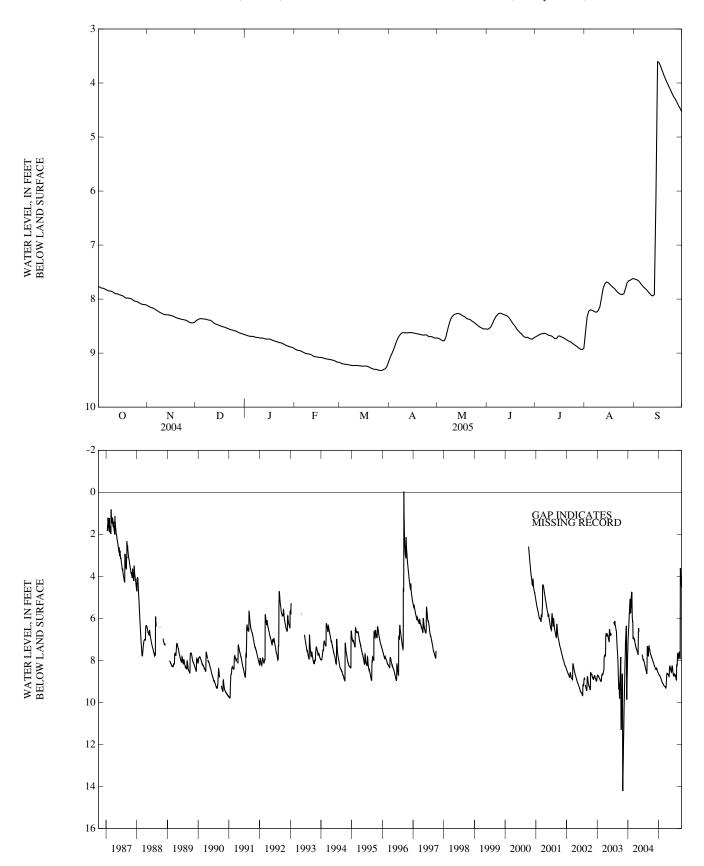
# DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES LAN FER MAR APR MAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.77	8.13	8.40	8.67	8.93	9.18	9.09	8.72	8.56	8.70	8.62	7.63
2	7.78	8.14	8.38	8.68	8.95	9.20	9.02	8.74	8.54	8.68	8.33	7.64
3	7.80	8.16	8.37	8.69	8.95	9.20	8.95	8.76	8.51	8.66	8.23	7.66
4	7.80	8.17	8.36	8.69	8.96	9.21	8.87	8.77	8.45	8.65	8.20	7.69
5	7.81	8.18	8.36	8.69	8.97	9.21	8.79	8.77	8.38	8.64	8.20	7.73
6	7.83	8.20	8.37	8.70	8.99	9.22	8.72	8.69	8.33	8.63	8.22	7.77
7	7.84	8.22	8.37	8.71	9.00	9.22	8.67	8.56	8.29	8.64	8.24	7.80
8	7.85	8.24	8.38	8.71	9.01	9.23	8.63	8.45	8.27	8.65	8.24	7.82
9	7.85	8.26	8.39	8.71	9.01	9.23	8.62	8.37	8.26	8.67	8.21	7.86
10	7.87	8.27	8.39	8.72	9.02	9.23	8.62	8.31	8.27	8.68	8.14	7.89
11	7.89	8.28	8.42	8.72	9.03	9.23	8.63	8.29	8.29	8.69	7.98	7.93
12	7.90	8.29	8.44	8.73	9.05	9.23	8.62	8.28	8.30	8.71	7.81	7.94
13	7.90	8.29	8.46	8.74	9.07	9.24	8.62	8.27	8.31	8.73	7.72	7.92
14	7.92	8.29	8.47	8.74	9.07	9.24	8.62	8.27	8.33	8.73	7.68	6.11
15	7.93	8.30	8.48	8.74	9.07	9.24	8.62	8.28	8.37	8.69	7.69	3.60
16	7.94	8.31	8.50	8.74	9.08	9.24	8.63	8.30	8.42	8.68	7.72	3.63
17	7.96	8.32	8.51	8.75	9.08	9.24	8.63	8.32	8.47	8.70	7.75	3.70
18	7.98	8.34	8.52	8.77	9.09	9.25	8.64	8.33	8.50	8.71	7.78	3.78
19	7.98	8.35	8.52	8.78	9.10	9.26	8.65	8.36	8.55	8.73	7.80	3.86
20	7.98	8.36	8.54	8.79	9.11	9.28	8.65	8.37	8.59	8.75	7.84	3.93
21	7.99	8.37	8.55	8.80	9.11	9.29	8.66	8.38	8.62	8.77	7.87	4.00
22	8.00	8.38	8.56	8.81	9.12	9.30	8.67	8.40	8.64	8.78	7.90	4.06
23	8.03	8.38	8.57	8.81	9.12	9.30	8.66	8.42	8.68	8.80	7.91	4.12
24	8.04	8.39	8.58	8.82	9.13	9.30	8.67	8.45	8.70	8.82	7.92	4.19
25	8.05	8.40	8.59	8.84	9.13	9.32	8.69	8.47	8.71	8.84	7.90	4.25
26 27 28 29 30 31	8.06 8.08 8.09 8.10 8.10 8.11	8.41 8.43 8.44 8.44 8.43	8.59 8.61 8.63 8.64 8.65 8.66	8.86 8.87 8.88 8.89 8.89	9.15 9.17 9.17 	9.32 9.32 9.30 9.29 9.25 9.17	8.70 8.69 8.71 8.72 8.72	8.49 8.52 8.53 8.55 8.55 8.55	8.71 8.73 8.74 8.74 8.71	8.86 8.89 8.91 8.93 8.93	7.80 7.70 7.66 7.65 7.63 7.62	4.30 4.35 4.41 4.47 4.52

WTR YR 2005 MEAN 8.33 HIGH 3.60 LOW 9.32

# BRUNSWICK COUNTY—Continued

335629078115407. Local number, NC-182; DENR Sunset Harbor Research Station well GG34s7; County number, BR-080.



### BRUNSWICK COUNTY—Continued

335631078003604. Local number, NC-197; DENR Southport Research Station well GG32t4; County number, BR-081.

LOCATION.--Lat 33°56'31", long 78°00'35", Hydrologic Unit 03030005, north of Southport, 0.45 mi northeast of Secondary Road 1527. Owner: DENR (North Carolina Department of Environment and Natural Resources).

AQUIFER .-- Peedee aquifer of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation well, depth 200 ft, diameter 6 in., cased to 93.5 ft, open hole from 93.5 to 200 ft; measured depth 199 ft, September 1997.

INSTRUMENTATION.--Water-level recorder collecting data at 60-minute intervals. Satellite telemetry at station.

DATUM.--Land-surface datum is 28.08 ft above NGVD of 1929. Measuring point: Top of casing, 1.17 ft above land-surface datum.

REMARKS.-- Well is part of areal-effects network. Water levels affected by localized pumping since Dec. 2002.

PERIOD OF RECORD .-- January 1970 to current year. Continuous record began October 1999.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.28 ft below land-surface datum, Mar. 8, 1988; lowest water level recorded, 58.39 ft below land-surface datum, Jan. 28, 2005.

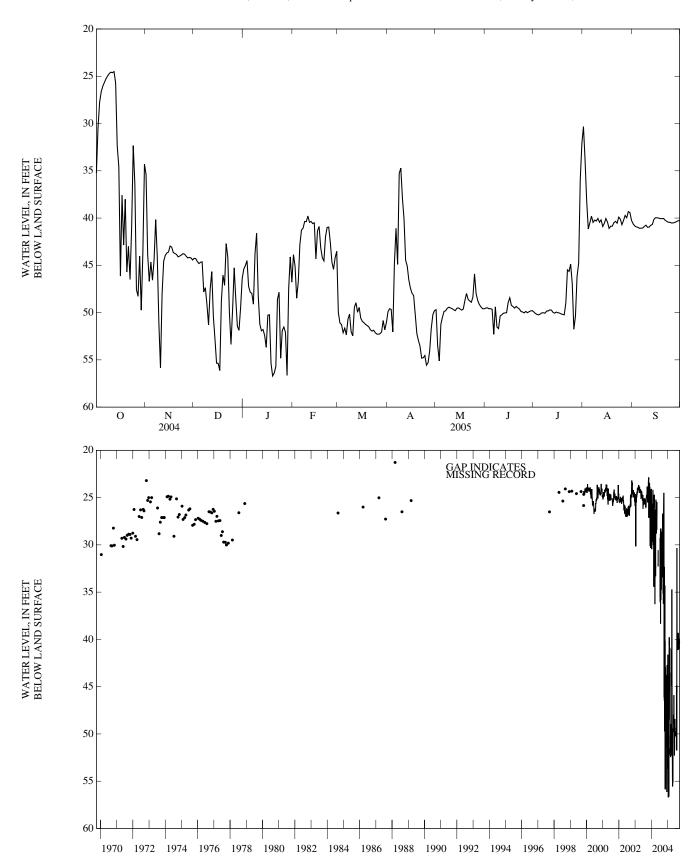
REVISIONS.--Revised figures for depth to water level for the water year 2002, superseding those published in the report for 2002 are given below.

# DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35.23	35.40	44.26	45.39	43.87	49.98	49.90	49.69	49.53	49.93	30.33	40.61
2	30.47	43.86	44.30	45.02	45.09	51.10	49.59	53.52	49.49	50.09	33.86	40.83
3	27.77	46.69	44.60	44.49	48.47	51.27	49.67	55.11	49.60	50.19	38.20	40.94
4	26.65	44.65	44.81	47.24	46.73	52.13	52.05	51.24	49.58	50.24	41.14	40.98
5	26.05	46.57	44.68	47.83	42.79	51.65	44.79	50.47	49.65	50.16	40.50	41.08
6	25.65	44.42	44.63	47.96	41.26	52.34	41.09	49.87	52.29	50.03	39.79	41.07
7	25.26	40.16	47.82	49.11	41.07	50.72	44.91	49.81	49.39	50.02	40.46	41.06
8	24.96	44.11	47.37	43.77	40.36	50.16	35.27	49.54	51.53	50.06	40.21	40.88
9	24.72	51.14	49.14	41.61	40.38	52.05	34.71	49.43	51.69	49.84	40.32	40.75
10	24.57	55.85	51.30	48.17	39.78	52.45	37.90	49.51	50.36	49.82	40.04	40.98
11	24.62	48.00	47.56	51.23	40.45	49.44	40.11	49.58	50.23	49.71	40.44	40.95
12	24.50	44.55	45.66	51.93	40.36	48.95	44.46	49.70	50.07	49.74	40.19	40.76
13	25.71	43.95	50.41	51.80	40.59	49.96	45.07	49.79	50.03	49.98	40.89	40.67
14	32.39	43.69	52.78	52.40	40.50	49.44	46.55	49.54	50.01	50.06	40.57	40.13
15	34.57	43.59	55.35	53.67	44.32	50.60	47.41	49.50	48.94	49.95	40.05	39.96
16	46.14	42.96	55.37	50.27	41.35	50.93	47.95	49.62	48.44	50.01	40.43	39.97
17	37.56	43.08	56.13	50.23	40.88	51.07	48.20	49.74	49.22	50.04	41.09	40.01
18	42.85	43.65	48.77	55.39	43.12	51.25	50.19	49.62	49.36	50.14	40.86	40.06
19	38.01	43.75	46.02	56.70	44.19	51.37	52.22	48.72	49.53	50.19	40.85	40.07
20	45.71	43.85	47.11	56.39	44.53	51.51	52.96	47.98	49.35	50.23	40.49	40.04
21	42.99	44.10	42.71	55.69	41.97	51.81	53.57	48.59	49.49	48.97	40.35	40.23
22	46.49	44.02	44.13	48.60	40.99	51.96	54.81	48.77	49.62	45.48	40.54	40.34
23	40.92	43.92	49.94	47.85	40.95	51.86	54.78	48.91	49.89	45.64	39.90	40.45
24	32.33	43.77	53.36	54.82	42.57	52.11	54.55	48.36	49.93	44.88	40.11	40.45
25	36.41	43.81	49.70	51.89	44.67	52.27	55.57	45.91	50.03	46.94	40.70	40.52
26 27 28 29 30 31	47.57 48.28 44.04 49.74 43.64 34.30	44.02 44.21 44.17 44.21 44.44	45.26 48.57 51.45 51.88 49.48 46.40	51.52 52.09 56.64 47.48 44.11 46.78	45.42 44.19 43.52 	52.29 52.24 52.05 50.84 51.82 51.06	55.30 54.08 51.67 50.22 49.80	47.99 48.72 49.15 49.40 49.58 49.59	49.87 50.01 49.91 49.83 49.79	51.76 50.38 46.15 44.77 35.92 32.10	40.25 39.73 39.97 39.31 39.43 40.25	40.51 40.46 40.38 40.29 40.25

WTR YR 2005 MEAN 45.70 HIGH 24.50 LOW 56.70

335631078003604. Local number, NC-197; DENR Southport Research Station well GG32t4; County number, BR-081.



### BRUNSWICK COUNTY—Continued

335631078003605. Local number, NC-198; DENR Southport Research Station well GG32t5; County number, BR-082.

LOCATION.--Lat 33°56'31", long 78°00'35", Hydrologic Unit 03030005, north of Southport, 0.45 miles northeast of Secondary Road 1526 on Secondary Road 1527. Owner: DENR (North Carolina Department of Environment and Natural Resources).

AQUIFER .-- Castle Hayne aquifer of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation well, depth 74 ft, diameter 4 in., cased to 64 ft, screened from 64 to 74 ft; measured depth 72.0 ft, September 1997.

INSTRUMENTATION.--Water-level recorder collecting data at 60-minute intervals. Satellite telemetry at site.

DATUM.--Land-surface datum is 28.26 ft above NGVD of 1929. Measuring point: Top of casing, 2.20 ft above land-surface datum.

REMARKS .-- Well is part of induced-effects network. Water levels affected by localized pumping.

PERIOD OF RECORD.--January 1970 to current year. Continuous record began November 1999.

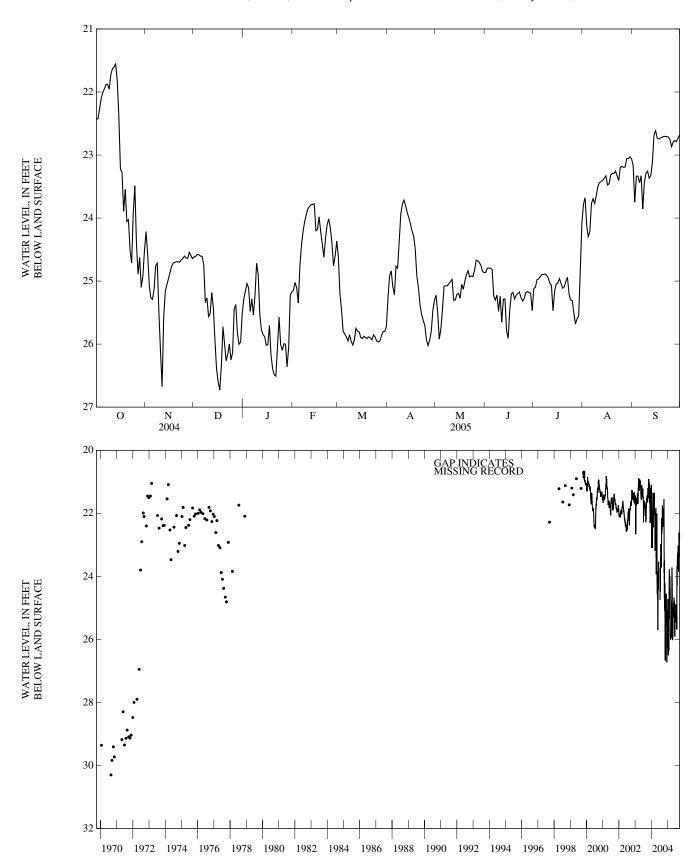
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 20.68 ft below land-surface datum, Nov. 11 1999; lowest water level measured, 30.30 ft below land-surface datum, Aug. 26, 1970.

# DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22.43	24.22	24.62	25.28	25.15	24.61	25.26	25.22	24.86	25.12	23.78	23.16
2	22.42	24.58	24.61	25.16	25.02	25.20	24.92	25.50	24.80	25.10	23.68	23.75
3	22.27	25.07	24.58	25.04	25.11	25.46	24.84	25.92	24.79	24.98	24.11	23.34
4	22.10	25.27	24.58	25.11	25.35	25.80	25.09	25.76	24.80	24.97	24.30	23.34
5	22.01	25.29	24.60	25.48	24.77	25.84	25.22	25.45	24.82	24.93	24.21	23.44
6	21.95	25.13	24.61	25.29	24.43	25.88	24.76	25.08	25.24	24.90	23.77	23.33
7	21.88	24.76	24.74	25.53	24.21	25.95	24.79	25.08	25.30	24.89	23.69	23.86
8	21.88	24.72	25.34	25.22	24.05	25.85	24.37	25.08	25.22	24.89	23.77	23.43
9	21.96	25.48	25.27	24.72	23.95	25.96	23.93	25.04	25.48	24.91	23.64	23.29
10	21.72	26.11	25.56	24.90	23.85	26.01	23.78	25.01	25.24	24.95	23.50	23.25
11	21.63	26.67	25.51	25.54	23.82	25.94	23.72	24.97	25.65	25.04	23.44	23.37
12	21.60	25.57	25.18	25.77	23.79	25.75	23.80	25.30	25.29	25.06	23.42	23.33
13	21.55	25.16	25.43	25.85	23.78	25.79	23.91	25.30	25.28	25.47	23.40	23.12
14	21.81	25.05	25.94	25.88	23.77	25.81	23.99	25.21	25.79	25.16	23.37	22.69
15	22.38	24.96	26.40	26.02	24.20	25.90	24.09	25.19	25.91	25.05	23.33	22.61
16	23.22	24.86	26.60	26.01	24.18	25.91	24.20	25.28	25.46	25.03	23.47	22.73
17	23.28	24.76	26.73	25.71	23.98	25.87	24.28	25.05	25.20	24.96	23.46	22.75
18	23.89	24.71	26.34	26.18	24.22	25.90	24.49	25.13	25.18	25.04	23.32	22.73
19	23.55	24.70	25.72	26.39	24.42	25.91	24.92	25.00	25.28	25.11	23.29	22.72
20	24.05	24.69	26.00	26.49	24.62	25.88	25.11	24.89	25.22	25.09	23.29	22.71
21	24.03	24.70	26.26	26.51	24.32	25.90	25.38	24.84	25.20	25.01	23.25	22.70
22	24.51	24.70	26.16	26.06	24.11	25.93	25.53	24.93	25.17	24.94	23.33	22.71
23	24.71	24.66	26.00	25.57	24.01	25.85	25.62	24.92	25.26	25.21	23.40	22.71
24	23.92	24.64	26.25	26.00	24.15	25.89	25.71	24.93	25.32	25.30	23.19	22.76
25	23.49	24.60	26.13	26.10	24.39	25.95	25.93	24.83	25.28	25.31	23.18	22.87
26 27 28 29 30 31	24.40 24.89 24.63 25.10 24.92 24.52	24.64 24.64 24.54 24.59 24.64	25.44 25.37 25.82 26.00 25.97 25.52	25.99 26.00 26.36 26.05 25.22 25.17	24.76 24.60 24.37 	25.97 25.95 25.86 25.80 25.80 25.72	26.02 25.94 25.80 25.46 25.30	24.67 24.68 24.71 24.75 24.85 24.87	25.18 25.17 25.18 25.19 25.47	25.51 25.68 25.60 25.55 24.84 24.09	23.20 23.19 23.05 23.06 23.03 23.06	22.79 22.77 22.79 22.73 22.68

WTR YR 2005 MEAN 24.69 HIGH 21.55 LOW 26.73

335631078003605. Local number, NC-198; DENR Southport Research Station well GG32t5; County number, BR-082.



335631078003606. Local number, NC-199; DENR Southport Research Station well GG32t6; County number, BR-083.

LOCATION.--Lat 33°56'31", long 78°00'35", Hydrologic Unit 03030005, north of Southport, 0.45 mi northeast of Secondary Road 1526 on Secondary Road 1527. Owner: DENR (North Carolina Department of Environment and Natural Resources).

AQUIFER .-- Surficial aquifer.

WELL CHARACTERISTICS.--Drilled observation well, depth 21 ft, diameter 4 in., cased to 11 ft, screened from 11 to 21 ft.

INSTRUMENTATION.--Water-level recorder collecting data at 60-minute intervals. Satellite telemetry at station.

DATUM.--Land-surface datum is 28.00 ft above NGVD of 1929. Measuring point: Top of instrument shelf, 1.27 ft above land-surface datum.

REMARKS .-- Well is part of local-effects network.

PERIOD OF RECORD.--January 1970 to current year. Continuous record began October 1997.

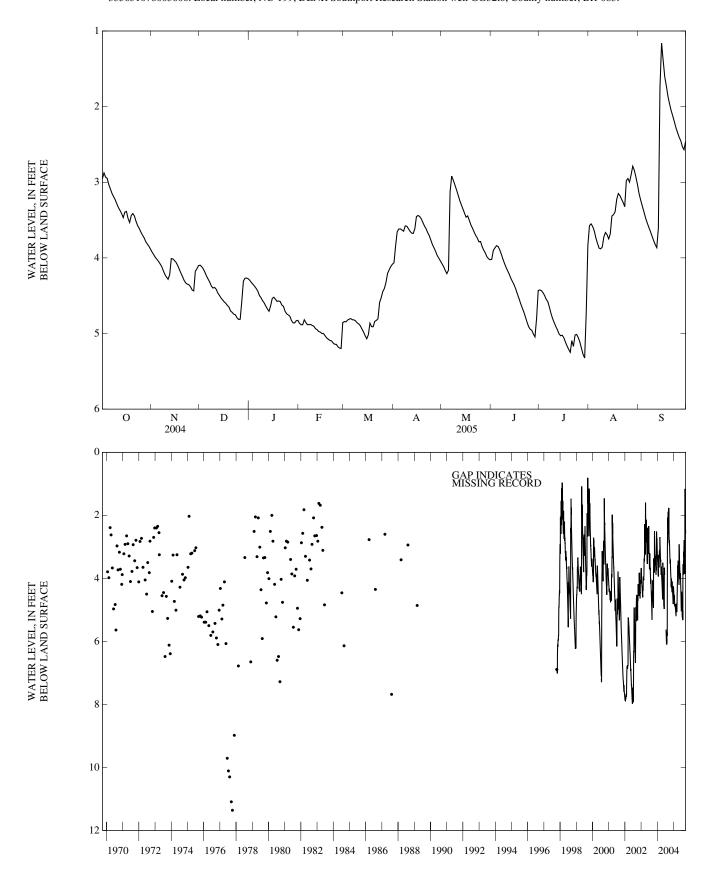
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 0.13 ft below land-surface datum, Sept. 16, 1999; lowest water level measured, 11.36 ft below land-surface datum, Oct. 10, 1977.

# DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.95	3.92	4.10	4.30	4.86	4.84	4.06	4.08	4.02	4.42	3.58	3.15
2	2.88	3.96	4.12	4.33	4.88	4.85	3.84	4.12	3.90	4.43	3.55	3.24
3	2.93	3.99	4.15	4.35	4.88	4.82	3.65	4.17	3.87	4.46	3.59	3.32
4	2.95	4.02	4.19	4.38	4.82	4.81	3.62	4.21	3.84	4.50	3.64	3.39
5	3.03	4.05	4.24	4.40	4.86	4.80	3.62	4.16	3.85	4.55	3.74	3.47
6 7 8 9 10	3.09 3.15 3.19 3.23 3.29	4.08 4.11 4.17 4.22 4.25	4.28 4.32 4.37 4.40 4.39	4.44 4.50 4.53 4.57 4.60	4.88 4.88 4.89 4.90	4.82 4.82 4.83 4.86 4.87	3.63 3.65 3.58 3.58 3.61	3.13 2.92 2.97 3.03 3.10	3.89 3.95 4.02 4.08 4.13	4.58 4.65 4.74 4.80 4.86	3.81 3.87 3.88 3.86 3.72	3.53 3.59 3.65 3.71 3.77
11	3.33	4.28	4.41	4.64	4.94	4.90	3.65	3.17	4.17	4.91	3.66	3.82
12	3.37	4.22	4.46	4.68	4.95	4.94	3.67	3.24	4.22	4.95	3.69	3.86
13	3.42	4.01	4.49	4.71	4.97	4.98	3.68	3.30	4.27	5.01	3.75	3.61
14	3.47	4.01	4.53	4.63	4.98	5.03	3.62	3.35	4.32	5.03	3.68	1.75
15	3.40	4.04	4.55	4.54	5.00	5.07	3.45	3.41	4.36	5.02	3.45	1.16
16	3.39	4.06	4.58	4.52	5.00	5.02	3.44	3.46	4.41	5.06	3.43	1.39
17	3.48	4.10	4.60	4.55	5.03	4.86	3.45	3.44	4.48	5.11	3.39	1.61
18	3.53	4.15	4.63	4.58	5.06	4.91	3.48	3.50	4.54	5.16	3.23	1.73
19	3.44	4.20	4.65	4.57	5.08	4.91	3.53	3.56	4.60	5.21	3.15	1.87
20	3.41	4.25	4.70	4.58	5.09	4.84	3.58	3.61	4.66	5.25	3.18	1.96
21	3.45	4.30	4.72	4.62	5.10	4.83	3.61	3.66	4.71	5.09	3.22	2.05
22	3.52	4.33	4.74	4.64	5.13	4.81	3.66	3.70	4.78	5.17	3.27	2.12
23	3.57	4.35	4.75	4.71	5.14	4.59	3.71	3.74	4.85	5.02	3.32	2.20
24	3.61	4.36	4.79	4.74	5.14	4.53	3.77	3.79	4.91	5.01	2.98	2.28
25	3.66	4.38	4.81	4.75	5.17	4.45	3.83	3.78	4.94	5.05	2.95	2.35
26 27 28 29 30 31	3.70 3.73 3.78 3.82 3.84 3.88	4.42 4.44 4.18 4.14 4.10	4.81 4.58 4.31 4.27 4.27 4.28	4.77 4.83 4.86 4.86 4.83 4.83	5.19 5.20 4.86 	4.40 4.32 4.20 4.16 4.11 4.08	3.87 3.92 3.97 4.00 4.04	3.85 3.90 3.94 3.99 4.01 4.02	4.96 5.01 5.04 4.80 4.43	5.11 5.19 5.28 5.32 4.71 3.83	3.00 2.90 2.79 2.84 2.93 3.04	2.41 2.45 2.53 2.57 2.46

WTR YR 2005 MEAN 4.08 HIGH 1.16 LOW 5.32

335631078003606. Local number, NC-199; DENR Southport Research Station well GG32t6; County number, BR-083.



335849078054301. County number, BR-100; Well 15A.

LOCATION.--Lat 33°58'49", long 78°05'43", Hydrologic Unit 03030005, west of Southport on State Highway 211, 1.82 mi northwest of intersection with State Highway 133. Owner: Brunswick County.

AQUIFER.--Castle Hayne and Peedee aquifers of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation well, depth 158.3 ft, diameter 6 in.; cased to 60 ft, open hole from 60 ft to 158.3 ft.

INSTRUMENTATION.--Water-level recorder collecting data at 15-minute intervals.

DATUM.--Land-surface datum is 56 ft above NGVD of 1929 (from topographic map). Measuring point: Top of instrument shelf, 2.42 ft above land-surface datum.

REMARKS.-- Water levels are affected by nearby pumping of Brunswick County Water Supply Well 15. Well is part of the Brunswick County ground-water study.

PERIOD OF RECORD.--February 1999 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 8.30 ft below land-surface datum, Apr. 1, 2000; lowest water level recorded, 51.04 ft below land-surface datum, Aug. 8, 9, 2004.

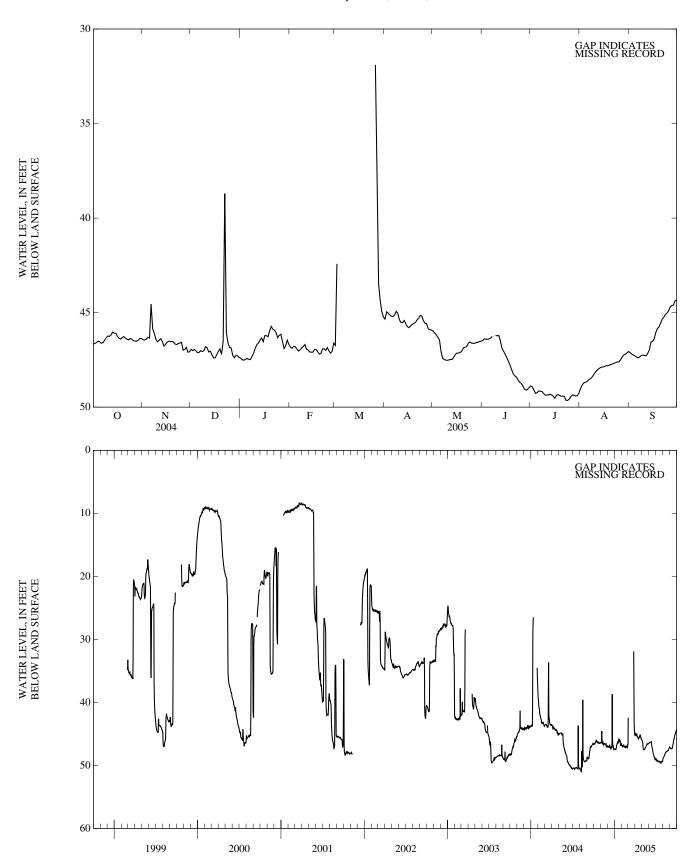
# DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	46.66 46.63 46.57 46.51 46.55	46.44 46.46 46.41 46.31 46.35	46.94 47.01 46.95 47.02 47.12	47.41 47.50 47.51 47.47 47.43	46.83 46.89 46.78 46.80 46.93	46.74 42.42  	45.35 44.96 45.03 45.12 45.19	45.98 46.08 46.18 46.31 46.44	46.48 46.38 46.41 46.41 46.39	48.88 48.93 49.11 49.27 49.23	49.03 48.84 48.72 48.69 48.65	47.12 47.20 47.24 47.30 47.35
6 7 8 9 10	46.62 46.59 46.46 46.33 46.24	44.55 45.85 46.09 46.41 46.54	47.10 47.01 47.06 47.01 46.81	47.47 47.49 47.31 47.16 46.88	47.03 46.97 46.87 46.79 46.69	   	45.22 45.12 44.93 45.04 45.38	47.08 47.42 47.48 47.52 47.52	46.35 46.26  46.21 46.23	49.14 49.16 49.18 49.28 49.36	48.56 48.51 48.44 48.32 48.18	47.39 47.34 47.27 47.24 47.27
11 12 13 14 15	46.26 46.18 46.03 46.09 46.09	46.46 46.38 46.52 46.77 46.69	46.87 47.08 47.04 47.24 47.39	46.70 46.60 46.45 46.34 46.54	46.93 46.98 47.08 47.09 47.10	   	45.52 45.53 45.42 45.60 45.75	47.50 47.48 47.47 47.35 47.20	46.20 46.50 46.89 47.04 47.21	49.36 49.35 49.32 49.35 49.42	48.09 48.01 47.93 47.89 47.88	47.29 47.15 46.97 46.56 46.52
16 17 18 19 20	46.25 46.36 46.40 46.32 46.27	46.56 46.51 46.53 46.53 46.56	47.40 47.22 47.05 46.92 47.21	46.22 46.22 46.28 45.96 45.73	46.95 46.96 47.06 47.20 47.16	   	45.80 45.71 45.62 45.58 45.52	47.14 47.14 47.10 47.02 46.85	47.39 47.56 47.77 48.01 48.23	49.54 49.37 49.34 49.38 49.42	47.86 47.81 47.81 47.78 47.75	46.39 46.06 45.85 45.76 45.56
21 22 23 24 25	46.35 46.41 46.44 46.37 46.41	46.66 46.69 46.63 46.61 46.57	46.53 38.70 46.07 46.61 46.84	45.88 45.93 46.05 46.32 46.20	46.92 46.92 46.99 46.85 47.02	   	45.39 45.29 45.15 45.19 45.43	46.83 46.79 46.62 46.55 46.61	48.35 48.41 48.56 48.68 48.74	49.42 49.44 49.65 49.65 49.57	47.71 47.68 47.65 47.61 47.61	45.34 45.25 45.10 45.03 44.91
26 27 28 29 30 31	46.49 46.50 46.51 46.45 46.37	46.99 46.95 46.84 47.09 47.08	46.88 47.27 47.39 47.26 47.29 47.37	46.15 46.53 46.90 46.75 46.46 46.68	47.14 47.05 46.62 	31.90 37.49 43.47 44.36 44.95 45.23	45.57 45.59 45.87 45.91 45.92	46.62 46.62 46.58 46.57 46.53 46.51	48.87 49.05 49.10 49.05 48.96	49.44 49.36 49.36 49.41 49.39 49.26	47.50 47.34 47.24 47.20 47.13 47.06	44.70 44.63 44.60 44.38 44.35

WTR YR 2005 MEAN 46.85 HIGH 31.90 LOW 49.65

# BRUNSWICK COUNTY—Continued

335849078054301. County number, BR-100; Well 15A.



### BRUNSWICK COUNTY—Continued

340743078202002. County number, BR-106; DENR Bear Pen Research Station well EE36k5.

LOCATION.--Lat 34°07'43", long 78°20'20", Hydrologic Unit 03040206, 9 mi north of Supply on Federal Road, near North Carolina Forest Service airstrip. Owner: DENR (North Carolina Department of Environment and Natural Resources).

AQUIFER .-- Black Creek aquifer of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation well, depth 654 ft, diameter 2.5 in.; cased to 644 ft, screened interval from 644 to 654 ft.

INSTRUMENTATION.--Water-level recorder collecting data at 15-minute intervals. Satellite telemetry at station.

DATUM.--Land-surface datum is 61.50 ft above NGVD of 1929. Measuring point: Top of casing, 3.56 ft above land-surface datum.

REMARKS .-- Well is part of Brunswick County ground-water study.

PERIOD OF RECORD.--January 1974 to current year. Continuous record began October 1999.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.03 ft below land-surface datum, July 9, 1975; lowest water level recorded, 29.64 ft below land-surface datum, Sept. 9-13, 2005.

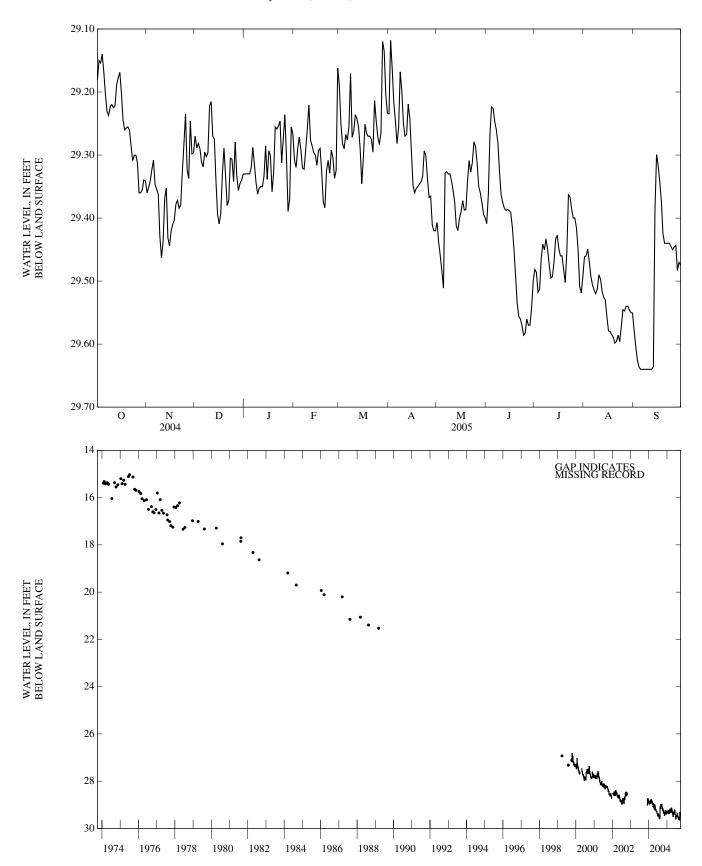
# DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29.18	29.36	29.27	29.33	29.31	29.19	29.23	29.41	29.41	29.48	29.46	29.58
2	29.15	29.35	29.29	29.33	29.32	29.25	29.12	29.44	29.36	29.49	29.46	29.60
3	29.15	29.34	29.28	29.33	29.29	29.28	29.16	29.46	29.27	29.52	29.45	29.63
4	29.14	29.32	29.29	29.33	29.27	29.29	29.22	29.48	29.22	29.51	29.47	29.64
5	29.17	29.31	29.31	29.32	29.29	29.27	29.25	29.51	29.23	29.46	29.49	29.64
6	29.20	29.35	29.32	29.29	29.32	29.28	29.28	29.33	29.25	29.44	29.51	29.64
7	29.23	29.35	29.30	29.31	29.32	29.25	29.26	29.33	29.26	29.45	29.51	29.64
8	29.24	29.36	29.30	29.34	29.29	29.17	29.17	29.33	29.28	29.43	29.52	29.64
9	29.22	29.43	29.30	29.36	29.26	29.27	29.20	29.33	29.33	29.45	29.51	29.64
10	29.22	29.46	29.22	29.35	29.22	29.26	29.25	29.34	29.36	29.47	29.49	29.64
11	29.23	29.44	29.22	29.35	29.28	29.24	29.27	29.36	29.38	29.50	29.50	29.64
12	29.22	29.37	29.27	29.35	29.29	29.24	29.27	29.37	29.38	29.49	29.52	29.64
13	29.19	29.35	29.27	29.33	29.30	29.26	29.22	29.41	29.39	29.47	29.53	29.64
14	29.18	29.43	29.34	29.29	29.30	29.29	29.24	29.42	29.39	29.43	29.53	29.39
15	29.17	29.44	29.39	29.34	29.32	29.35	29.29	29.40	29.39	29.43	29.56	29.30
16	29.20	29.42	29.41	29.29	29.29	29.30	29.35	29.39	29.39	29.45	29.58	29.32
17	29.24	29.41	29.39	29.30	29.29	29.25	29.36	29.37	29.41	29.46	29.58	29.34
18	29.26	29.40	29.33	29.36	29.33	29.27	29.35	29.39	29.45	29.46	29.59	29.37
19	29.26	29.38	29.29	29.33	29.38	29.27	29.35	29.39	29.49	29.48	29.59	29.43
20	29.26	29.37	29.33	29.26	29.38	29.27	29.35	29.34	29.53	29.50	29.60	29.44
21	29.26	29.38	29.38	29.26	29.32	29.27	29.34	29.31	29.56	29.45	29.60	29.44
22	29.29	29.38	29.37	29.25	29.31	29.30	29.33	29.33	29.56	29.36	29.59	29.44
23	29.31	29.33	29.30	29.25	29.33	29.21	29.29	29.31	29.57	29.37	29.60	29.44
24	29.30	29.28	29.31	29.31	29.29	29.25	29.30	29.28	29.59	29.39	29.57	29.45
25	29.30	29.23	29.34	29.27	29.30	29.27	29.34	29.29	29.58	29.40	29.55	29.45
26 27 28 29 30 31	29.31 29.36 29.36 29.36 29.34 29.34	29.32 29.34 29.25 29.30 29.30	29.28 29.33 29.36 29.35 29.34 29.33	29.24 29.30 29.39 29.37 29.26 29.27	29.34 29.32 29.16 	29.28 29.26 29.12 29.14 29.20 29.23	29.37 29.37 29.41 29.42 29.42	29.31 29.35 29.36 29.38 29.39 29.40	29.56 29.57 29.57 29.54 29.50	29.40 29.42 29.45 29.51 29.52 29.49	29.55 29.54 29.54 29.55 29.55 29.55	29.45 29.44 29.48 29.47 29.47

WTR YR 2005 MEAN 29.36 HIGH 29.12 LOW 29.64

### BRUNSWICK COUNTY—Continued

340743078202002. County number, BR-106; DENR Bear Pen Research Station well EE36k5.



340743078202006. County number, BR-107; DENR Bear Pen Research Station well EE36k6.

LOCATION.--Lat 34°07'43", long 78°20'20", Hydrologic Unit 03040206, 9 mi north of Supply on Federal Road, near North Carolina Forest Service airstrip. Owner: DENR (North Carolina Department of Environment and Natural Resources).

AQUIFER .-- Peedee aquifer of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation well, depth 110 ft, diameter 4 in.; cased to 48 ft, open interval from 48 to 110 ft.

INSTRUMENTATION.--Water-level recorder collecting data at 15-minute intervals. Satellite telemetry at station.

DATUM.--Land-surface datum is 61.00 ft above NGVD of 1929. Measuring point: Top of instrument shelf, 0.69 ft above land-surface datum.

REMARKS.--Well is part of Brunswick County ground-water study. Water-level data may be influenced by local pumping.

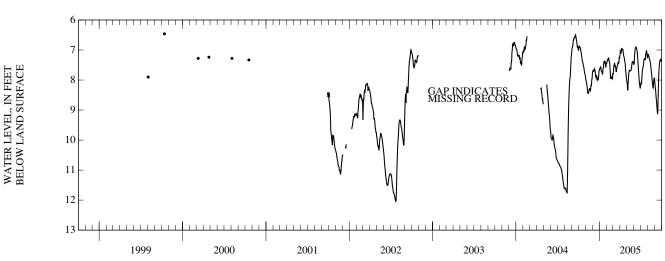
PERIOD OF RECORD.--August 1999 to current year. Continuous record began April 2000.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 6.37 ft below land-surface datum, Sept. 26, 2000; lowest water level recorded, 12.06 ft below land-surface datum, July 23, 2002.

# DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.02	7.94	7.76	7.64	7.45	7.79	7.16	8.05	7.49	8.11	7.19	8.11
2	6.96	7.99	7.73	7.63	7.44	7.80	7.03	8.13	7.43	8.09	7.16	8.22
3	6.92	8.02	7.69	7.61	7.38	7.71	7.04	8.20	7.29	8.13	7.14	8.28
4	6.87	8.04	7.69	7.58	7.34	7.59	7.06	8.29	7.14	8.12	7.17	8.36
5	6.87	8.09	7.71	7.57	7.34	7.52	7.06	8.34	7.05	7.99	7.20	8.47
6	6.90	8.16	7.70	7.56	7.34	7.53	7.08	8.17	6.98	7.86	7.23	8.57
7	6.92	8.19	7.68	7.63	7.32	7.48	7.02	8.04	6.93	7.77	7.27	8.66
8	6.92	8.26	7.70	7.66	7.29	7.43	6.93	7.90	6.91	7.68	7.32	8.75
9	6.93	8.37	7.69	7.70	7.27	7.53	6.95	7.79	6.90	7.63	7.33	8.83
10	6.96	8.43	7.63	7.71	7.25	7.54	6.99	7.73	6.92	7.59	7.34	8.93
11	7.03	8.44	7.64	7.73	7.32	7.53	7.00	7.69	6.93	7.56	7.39	9.04
12	7.07	8.41	7.70	7.77	7.35	7.55	7.00	7.69	6.94	7.53	7.47	9.11
13	7.09	8.41	7.72	7.79	7.40	7.60	6.97	7.70	6.96	7.47	7.49	9.12
14	7.17	8.44	7.81	7.76	7.43	7.68	7.02	7.70	7.00	7.38	7.56	8.83
15	7.22	8.39	7.88	7.77	7.45	7.74	7.09	7.68	7.05	7.33	7.64	8.52
16	7.28	8.33	7.90	7.64	7.63	7.69	7.16	7.68	7.13	7.30	7.72	8.23
17	7.35	8.30	7.88	7.59	7.71	7.62	7.20	7.68	7.24	7.29	7.78	7.95
18	7.39	8.29	7.86	7.59	7.96	7.60	7.22	7.69	7.35	7.29	7.87	7.76
19	7.40	8.28	7.84	7.49	7.91	7.57	7.25	7.68	7.47	7.30	7.94	7.62
20	7.41	8.30	7.93	7.40	7.92	7.51	7.30	7.63	7.61	7.33	8.03	7.51
21	7.46	8.34	8.00	7.40	7.89	7.50	7.34	7.58	7.72	7.31	8.11	7.42
22	7.51	8.36	8.00	7.38	7.91	7.49	7.39	7.54	7.80	7.17	8.18	7.37
23	7.55	8.31	7.96	7.39	7.95	7.40	7.42	7.47	7.93	7.12	8.26	7.35
24	7.57	8.23	7.99	7.45	7.91	7.42	7.51	7.41	8.05	7.08	8.27	7.35
25	7.62	8.15	8.01	7.40	7.95	7.42	7.63	7.39	8.13	7.05	8.20	7.35
26 27 28 29 30 31	7.68 7.73 7.78 7.81 7.82 7.87	8.20 8.13 7.99 7.97 7.87	7.93 7.94 7.89 7.77 7.71 7.67	7.38 7.48 7.58 7.54 7.43 7.45	7.96 7.93 7.79 	7.43 7.40 7.25 7.24 7.25 7.21	7.72 7.77 7.89 7.95 8.01	7.39 7.39 7.39 7.42 7.46 7.47	8.16 8.22 8.26 8.24 8.17	7.03 7.06 7.12 7.21 7.25 7.24	8.10 8.00 7.95 7.94 7.94 8.09	7.31 7.31 7.36 7.34 7.34

WTR YR 2005 MEAN 7.64 HIGH 6.87 LOW 9.12



### BRUNSWICK COUNTY—Continued

335334078352102. County number, BR-116; DENR Calabash Research Station well HH39j3.

LOCATION.--Lat 33°53'34", long 78°35'21", Hydrologic Unit 03040207, .75 mi west of Country Club Drive on Carolina Shores Drive. Owner: DENR (North Carolina Department of Environment and Natural Resources).

AQUIFER .-- Black Creek aquifer of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation well, depth 660 ft, diameter 2.5 in.; cased to 644 ft and from 654 to 660 ft, screened interval from 644 to 654 ft.

INSTRUMENTATION .-- Water-level recorder collecting data at 60-minute intervals. Satellite telemetry at station.

DATUM.--Land-surface datum is 47.59 ft above NGVD of 1929. Measuring point: Top of casing, 2.79 ft above land-surface datum.

REMARKS.--Well is part of Brunswick County ground-water study.

PERIOD OF RECORD.--May 1973 to current year. Continuous record began October 1999.

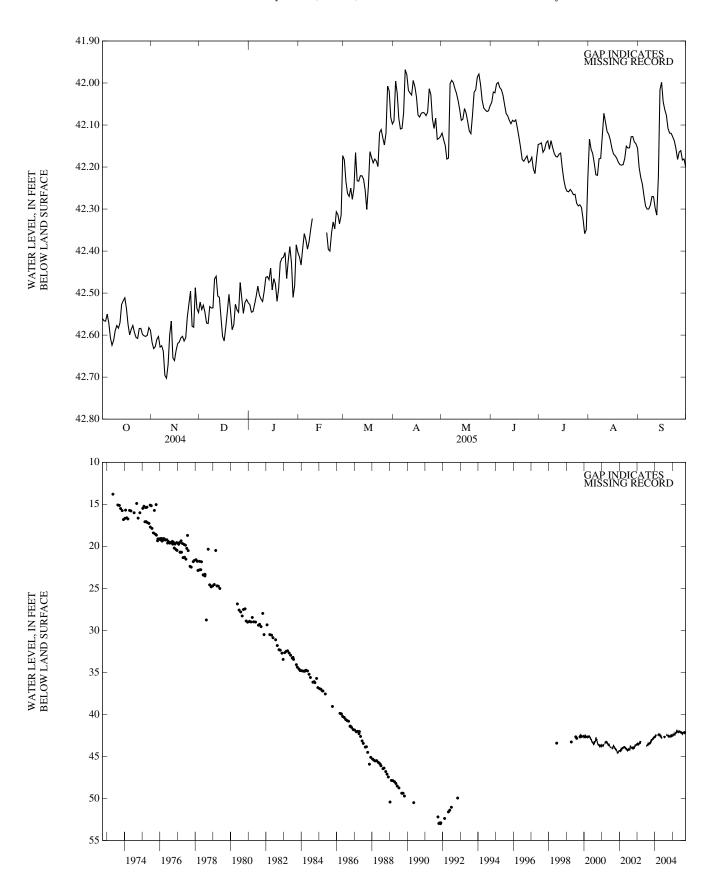
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.79 ft below land-surface datum, May 7, 1973; lowest water level measured, 53.00 ft below land-surface datum, Nov. 11, 1991.

# DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	42.56 42.57 42.57 42.55 42.57	42.62 42.63 42.63 42.61 42.60	42.52 42.54 42.53 42.55 42.57	42.53 42.55 42.54 42.53 42.51	42.41 42.43 42.39 42.36 42.37	42.18 42.23 42.26 42.27 42.25	42.09 42.00 42.02 42.08 42.11	42.12 42.14 42.15 42.18 42.18	42.05 42.02 42.02 42.00 42.00	42.14 42.14 42.16 42.16 42.14	42.13 42.16 42.17 42.19 42.22	42.20 42.22 42.24 42.27 42.29
6 7 8 9 10	42.61 42.62 42.61 42.59 42.58	42.63 42.63 42.64 42.70 42.70	42.57 42.53 42.54 42.54 42.47	42.48 42.51 42.51 42.52 42.49	42.40 42.38 42.35 42.32	42.28 42.25 42.17 42.23 42.23	42.11 42.07 41.97 41.98 42.02	42.00 41.99 42.00 42.01 42.02	42.01 42.02 42.03 42.05 42.07	42.14 42.16 42.14 42.15 42.17	42.22 42.18 42.18 42.13 42.07	42.30 42.30 42.29 42.27 42.27
11 12 13 14 15	42.58 42.57 42.53 42.52 42.51	42.67 42.60 42.57 42.65 42.66	42.46 42.51 42.51 42.56 42.60	42.46 42.46 42.47 42.44 42.49	   	42.22 42.22 42.23 42.25 42.30	42.02 42.03 41.99 42.01 42.03	42.04 42.06 42.09 42.09 42.06	42.08 42.09 42.10 42.09 42.09	42.17 42.18 42.17 42.17 42.20	42.09 42.12 42.12 42.14 42.16	42.30 42.31 42.23 42.02 42.00
16 17 18 19 20	42.54 42.57 42.60 42.59 42.58	42.64 42.62 42.62 42.61 42.60	42.61 42.58 42.54 42.50 42.54	42.47 42.48 42.52 42.49 42.43	42.36 42.40 42.40	42.25 42.16 42.18 42.19 42.18	42.08 42.08 42.07 42.07 42.07	42.07 42.09 42.11 42.12 42.08	42.09 42.11 42.13 42.15 42.18	42.23 42.25 42.26 42.26 42.25	42.17 42.17 42.18 42.19 42.19	42.04 42.06 42.08 42.11 42.12
21 22 23 24 25	42.59 42.61 42.61 42.58 42.58	42.61 42.61 42.56 42.53 42.50	42.59 42.58 42.53 42.54 42.55	42.42 42.41 42.40 42.47 42.42	42.36 42.33 42.35 42.31 42.31	42.19 42.20 42.12 42.11 42.13	42.08 42.07 42.01 42.03 42.09	42.02 42.02 41.99 41.98 42.00	42.19 42.18 42.17 42.19 42.19	42.26 42.27 42.26 42.29 42.29	42.20 42.19 42.18 42.15 42.15	42.12 42.13 42.14 42.16 42.18
26 27 28 29 30 31	42.60 42.60 42.60 42.58 42.59	42.58 42.58 42.49 42.54 42.55	42.47 42.51 42.55 42.52 42.52 42.52	42.39 42.43 42.51 42.48 42.39 42.40	42.34 42.31 42.17 	42.15 42.12 42.01 42.02 42.08 42.10	42.11 42.08 42.13 42.13 42.13	42.04 42.06 42.06 42.07 42.07 42.05	42.18 42.20 42.22 42.18 42.15	42.29 42.30 42.32 42.36 42.35 42.22	42.15 42.13 42.13 42.14 42.14 42.16	42.16 42.16 42.18 42.18 42.20

WTR YR 2005 MEAN 42.29 HIGH 41.97 LOW 42.70

335334078352102. County number, BR-116; DENR Calabash Research Station well HH39j3



335334078352106. Local number, BR-123; DENR Calabash Research Station well HH39j7.

LOCATION.--Lat 33°53'34", long 78°35'21", Hydrologic Unit 03040207, .75 miles west of Country Club Drive on Carolina Shores Drive. Owner: DENR (North Carolina Department of Environment and Natural Resources).

AQUIFER .-- Surficial Aquifer.

WELL CHARACTERISTICS.--Drilled observation well, depth 56 ft, diameter 4 in., cased to 46 ft, screened interval from 46 to 56 ft.

INSTRUMENTATION.--Water-level recorder collecting data at 60-minute intervals. Satellite telemetry at station.

DATUM.--Land-surface datum is 47.28 ft above NGVD of 1929. Measuring point: Top of casing, 1.97 ft above land-surface datum.

REMARKS .-- Well is part of Brunswick County ground-water study. Water levels may be affected by local pumping.

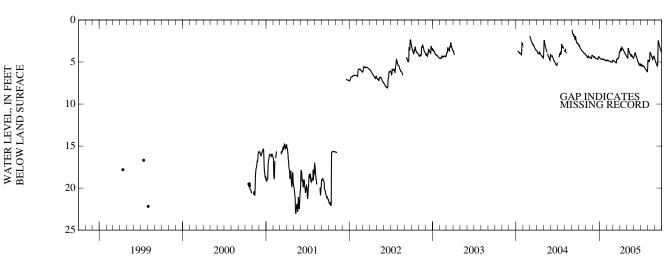
PERIOD OF RECORD.--April 1999 to current year. Continuous record began October 2000.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 1.05 ft below land-surface datum, Sept. 2, 2004; lowest water level recorded, 23.12 ft below land-surface datum, May 11, 2001.

# DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.00	4.15	4.20	4.48	4.86	4.77	3.79	4.35	4.40	5.34	4.86	4.73
2	3.01	4.18	4.25	4.52	4.87	4.79	3.61	4.39	4.29	5.43	4.77	4.83
3	3.05	4.20	4.28	4.55	4.84	4.81	3.46	4.48	4.27	5.44	4.79	4.91
4	3.00	4.20	4.34	4.57	4.76	4.83	3.52	4.55	4.09	5.29	4.86	5.00
5	3.09	4.26	4.40	4.58	4.78	4.85	3.59	4.54	3.91	5.31	4.92	5.08
6	3.18	4.30	4.43	4.60	4.80	4.89	3.64	3.67	3.89	5.41	4.94	5.15
7	3.24	4.35	4.44	4.64	4.80	4.90	3.63	3.35	3.94	5.50	4.94	5.21
8	3.29	4.40	4.47	4.64	4.81	4.91	3.30	3.45	4.02	5.48	4.93	5.26
9	3.35	4.47	4.45	4.66	4.82	4.97	3.25	3.58	4.12	5.42	4.58	5.33
10	3.39	4.51	4.38	4.66	4.82	4.98	3.31	3.70	4.23	5.42	3.89	5.40
11	3.46	4.49	4.41	4.68	4.86	4.99	3.39	3.78	4.35	5.46	3.86	5.47
12	3.50	4.42	4.46	4.70	4.87	5.03	3.43	3.87	4.44	5.50	3.92	5.41
13	3.52	4.28	4.49	4.71	4.90	5.07	3.44	3.96	4.50	5.52	4.00	5.24
14	3.59	4.31	4.55	4.68	4.90	5.09	3.49	4.00	4.60	5.49	4.05	3.71
15	3.60	4.35	4.57	4.66	4.91	5.11	3.51	4.08	4.69	5.51	4.12	2.44
16	3.64	4.38	4.57	4.63	4.90	5.01	3.60	4.15	4.78	5.58	4.24	2.52
17	3.71	4.42	4.57	4.67	4.93	4.72	3.65	4.19	4.88	5.64	4.32	2.67
18	3.75	4.46	4.58	4.70	4.96	4.65	3.71	4.25	4.93	5.69	4.38	2.79
19	3.75	4.49	4.59	4.67	4.99	4.63	3.78	4.34	5.00	5.73	4.44	2.90
20	3.77	4.52	4.64	4.68	4.99	4.63	3.85	4.31	5.03	5.79	4.53	3.01
21	3.82	4.52	4.65	4.73	4.98	4.65	3.90	4.12	5.12	5.83	4.63	3.12
22	3.86	4.54	4.66	4.71	4.99	4.67	3.95	4.13	5.22	5.85	4.71	3.22
23	3.91	4.50	4.65	4.75	5.00	4.56	3.96	4.21	5.31	5.88	4.70	3.31
24	3.92	4.45	4.68	4.76	4.98	4.51	4.03	4.32	5.36	5.93	4.46	3.42
25	3.94	4.48	4.68	4.76	5.00	4.49	4.10	4.34	5.31	5.99	4.33	3.51
26 27 28 29 30 31	3.95 4.01 4.04 4.03 4.03 4.09	4.57 4.55 4.26 4.21 4.20	4.51 4.37 4.36 4.36 4.40 4.44	4.77 4.83 4.85 4.82 4.79 4.84	5.02 5.01 4.80 	4.50 4.42 4.06 3.79 3.78 3.78	4.15 4.16 4.25 4.30 4.33	4.39 4.46 4.52 4.56 4.54 4.46	5.26 5.33 5.39 5.36 5.27	6.04 6.09 6.13 6.16 6.14 5.64	4.32 4.31 4.35 4.42 4.51 4.61	3.56 3.64 3.72 3.78 3.86

WTR YR 2005 MEAN 4.46 HIGH 2.44 LOW 6.16



### BUNCOMBE COUNTY

352840082381001. County number, BU-068; DENR Bent Creek Research Station MW-1S (Regolith well).

LOCATION.--Lat 35°28'39", long 82°38'10", Hydrologic Unit 06010105, 1.2 mi north of Blue Ridge Parkway, 3.1 mi west of Brevard Road in Bent Creek Research Forest. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Regolith (saprolitic Biotite Gneiss).

WELL CHARACTERISTICS.--Drilled observation well, depth 22 ft, diameter 4 in., cased to 8 ft, screened interval from 8 to 22 ft, sand filter packed from 6 to 22 ft.

INSTRUMENTATION .-- Measured periodically with steel tape.

DATUM.--Land-surface datum is 2,200.99 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.95 ft above land-surface datum.

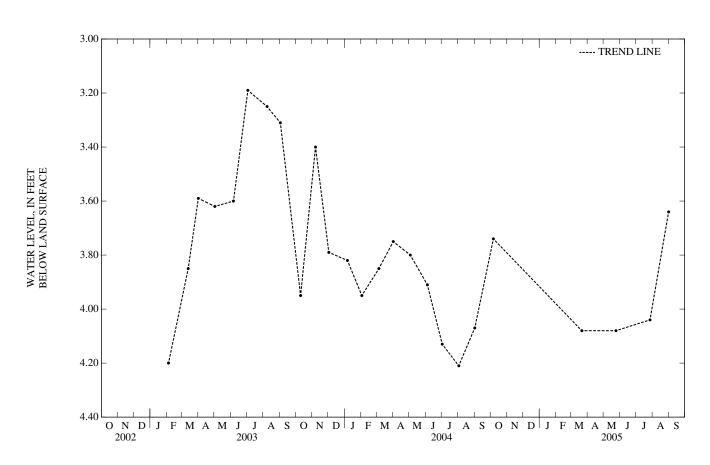
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD .-- February 2003 to current year.

 $EXTREMES\ FOR\ PERIOD\ OF\ RECORD.--Highest\ water\ level\ measured,\ 3.19\ ft\ below\ land-surface\ datum,\ July\ 3\ ,\ 2003;\ lowest\ water\ level\ measured,\ 4.21\ ft\ below\ land-surface\ datum,\ Aug.\ 2,\ 2004.$ 

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL								
OCT 06	3.74	MAR 21	4.08	MAY 24	4.08	JUL 27	4.04	AUG 31	3.64



352840082381002. County number, BU-069; DENR Bent Creek Research Station MW-1I (Transition Zone well).

LOCATION.--Lat 35°28'40", long 82°38'10", Hydrologic Unit 06010105, 1.2 mi north of Blue Ridge Parkway, 3.1 mi west of Brevard Road in Bent Creek Research Forest. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Regolith (saprolitic Biotite Gneiss).

WELL CHARACTERISTICS.--Drilled observation well, depth 53 ft, diameter 4 in., cased to 38 ft, screened interval from 38 to 53 ft, sand filter packed from 32 to 53 ft.

INSTRUMENTATION .-- Measured periodically with steel tape.

DATUM.--Land-surface datum is 2,202.52 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.77 ft above land-surface datum.

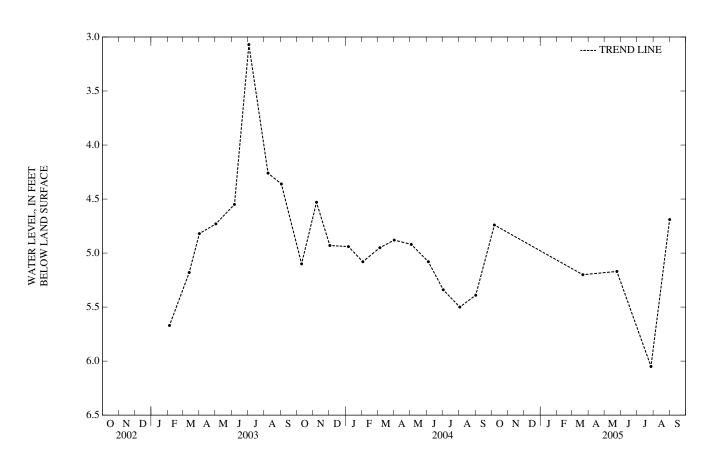
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD .-- February 2003 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.07 ft below land-surface datum, July 3, 2003; lowest water level measured, 5.67 ft below land-surface datum, Feb. 4, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER								
DATE	LEVEL								
OCT 06	4.74	MAR 21	5.20	MAY 24	5.17	JUL 27	6.05	AUG 31	4.69



352840082381003. County number, BU-070; DENR Bent Creek Research Station MW-1D (Bedrock well).

LOCATION.--Lat 35°28'41", long 82°38'12", Hydrologic Unit 06010105, 1.2 mi north of Blue Ridge Parkway, 3.1 mi west of Brevard Road in Bent Creek Research Forest. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Biotite Gneiss.

WELL CHARACTERISTICS.--Drilled observation well, depth 221 ft, diameter 6 in., cased to 55 ft, open hole from 55 to 221 ft.

INSTRUMENTATION.--Measured periodically with steel tape.

DATUM.--Land-surface datum is 2,201.77 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.50 ft above land-surface datum.

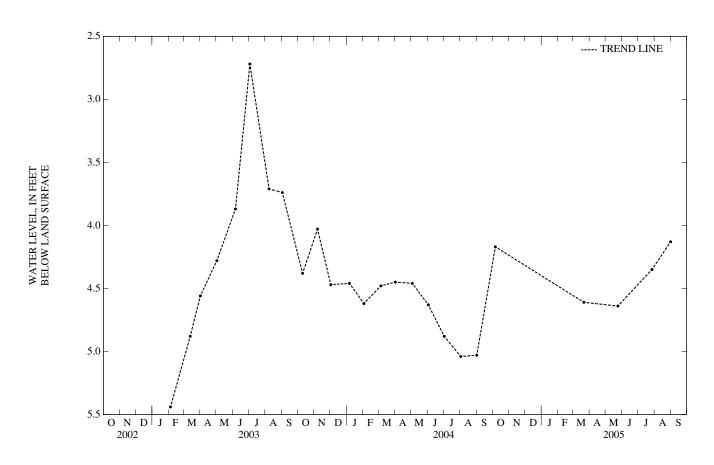
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--February 2003 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.72 ft below land-surface datum, July 3 , 2003; lowest water level measured, 5.44 ft below land-surface datum, Feb. 4, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

	WATER								
DATE	LEVEL								
OCT 06	4.17	MAR 21	4.61	MAY 24	4.64	JUL 27	4.35	AUG 31	4.13



352854082380501. County number, BU-071; DENR Bent Creek Research Station MW-2S (Regolith well).

LOCATION.—Lat 35°28'54", long 82°38'06", Hydrologic Unit 06010105, 1.2 mi north of Blue Ridge Parkway, 3.1 mi west of Brevard Road in Bent Creek Research Forest. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

#### WATER-LEVEL RECORDS

AQUIFER .-- Regolith (saprolitic Biotite Gneiss).

WELL CHARACTERISTICS.--Drilled observation well, depth 20 ft, diameter 4 in., cased to 5 ft, screened interval from 5 to 20 ft, sand filter packed from 3 to 20 ft.

INSTRUMENTATION .-- Water-level recorder collecting data at 60-minute intervals. Satellite telemetry at station.

DATUM.--Land-surface datum is 2,190.69 ft above NGVD of 1929. Measuring point: Top of instrument shelter floor, 2.98 ft above land-surface datum.

REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--February 2003 to current year. Continuous record began July 2004.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 4.00 ft below land-surface datum, Sept. 17, 2004; lowest water level recorded, 7.43 ft below land-surface datum, Aug. 28, 29, 2004.

# DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1											6.94	7.13
2											6.96	6.71
3											6.91	6.81
4											6.99	6.99
5											7.01	7.09
6											7.04	7.13
7											7.09	6.24
8											7.12	5.02
9											7.14	5.67
10											7.15	6.10
11											7.04	6.38
12											6.81	6.57
13											6.86	6.68
14											6.97	6.77
15											7.03	6.85
16											7.00	6.70
16											7.08	6.70
17											7.11	4.49
18											7.14	4.95
19											7.16	5.43
20											7.25	5.73
21											7.29	5.92
22											7.28	6.07
23											7.30	6.17
24											7.32	6.26
25											7.34	6.32
23											7.34	0.32
26											7.37	6.38
27											7.38	6.31
28											7.40	5.02
29											7.34	5.28
30										6.81	7.09	5.52
31										6.85	7.01	

WTR YR 2004 MEAN 6.66 HIGH 4.49 LOW 7.40

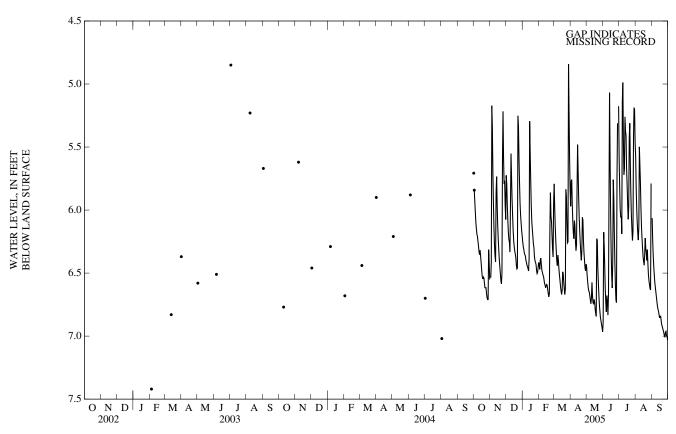
### BUNCOMBE COUNTY—Continued

352854082380501. County number, BU-071; DENR Bent Creek Research Station MW-2S (Regolith well).

# DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4	5.71 5.84 5.93 6.02	6.54 6.41 5.17	5.72 5.79 5.96	6.25 6.29 6.31 6.34	6.44 6.47 6.39 6.38	5.79 5.98 6.13 6.24	5.97 5.77 5.76 5.95	6.45 6.52 6.57	6.89 6.18 6.28	5.57 5.82 5.99 6.06	5.57 5.82 5.99 6.10	6.06 6.24 6.36 6.45
5	6.10	5.35	6.08 6.17	6.35	6.44	6.32	6.09	6.62 6.64	6.46 6.63	6.05	6.18	6.52
6 7	6.15 6.19	5.71 5.95	6.23 6.26	6.37 6.40	6.48 6.50	6.41 6.44	6.18 6.23	6.65 6.68	6.74 6.81	6.19 5.14	6.24 6.13	6.57 6.61
8	6.21	6.15	6.33	6.42	6.52	6.36	6.08	6.72	6.68	4.99	5.50	6.65
9	6.25	6.28	5.95	6.44	6.52	6.40	6.12	6.74	6.73	5.44	5.65	6.69
10	6.29	6.37	5.55	6.45	6.55	6.47	6.25	6.69	6.83	5.72	5.79	6.73
11	6.33	6.41	5.74	6.47	6.58	6.52	6.32	6.57	6.67	5.67	5.99	6.77
12 13	6.35 6.32	5.86 5.73	5.92 6.04	6.48 6.38	6.60 6.62	6.56 6.61	6.28 5.83	6.68 6.74	5.90 5.07	5.26 5.37	6.13 6.23	6.79 6.80
13	6.37	5.73 5.96	6.16	5.30	6.60	6.64	5.83 5.48	6.74	5.58	5.41	6.23	6.83
15	6.42	6.12	6.24	5.54	6.59	6.67	5.68	6.71	6.02	5.67	6.37	6.86
16	6.48	6.23	6.29	5.76	6.60	6.64	5.90	6.73	6.32	5.79	6.41	6.84
17	6.53	6.32	6.32	5.96	6.64	6.49	6.05	6.79	6.52	5.95	6.44	6.84
18	6.55	6.39	6.35	6.09	6.66	6.50	6.17	6.82	6.62	6.07	6.35	6.88
19	6.53	6.45	6.38	6.15	6.69	6.57	6.26	6.84	6.40	5.97	6.22	6.91
20	6.54	6.50	6.44	6.21	6.66	6.63	6.34	6.23	5.76	5.43	6.30	6.92
21	6.58	6.56	6.47	6.27	6.15	6.67	6.40	6.24	5.91	5.31	6.35	6.94
22	6.62	6.58	6.46	6.30	5.86	6.63	6.32	6.46	6.18	5.63	6.40	6.96
23 24	6.62 6.62	6.50 5.58	5.25 5.34	6.37 6.40	6.05 6.09	5.84 5.89	6.06 6.08	6.58 6.68	6.42 6.59	5.87 6.04	6.31 6.42	6.98 7.00
25	6.66	5.22	5.59	6.41	6.20	6.10	6.24	6.75	6.71	6.15	6.51	7.00
26	6.69	5.59	5.78	6.43	6.31	6.26	6.34	6.81	6.73	6.24	6.56	6.97
27 28	6.71 6.71	5.79 5.77	5.95 6.04	6.48 6.50	6.37 5.95	6.25 4.84	6.40 6.46	6.86 6.88	5.74 5.31	6.17 5.42	6.59 6.62	6.96 7.00
28 29	6.31	5.77	6.10	6.49	3.93	5.24	6.48	6.91	3.31	5.42	6.63	7.00
30	6.42	6.08	6.16	6.45		5.59	6.43	6.93	5.18	5.20	5.79	7.03
31	6.55		6.21	6.42		5.84		6.97		5.46		

WTR YR 2005 MEAN 6.26 HIGH 4.84 LOW 7.03



### 352854082380501 BU-071 DENR Bent Creek Research Station MW-2S (Regolith Well)—Continued

### WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 2004 to November 2005 (discontinued).

PERIOD OF DAILY RECORD .--

WATER TEMPERATURE: July 2004 to November 2005.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry from July 2004 to November 2005.

REMARKS.--Station operated in cooperation with North Carolina Department of Environment and Natural Resources, Division of Water Resources, as part of the Piedmont/Mountains ground-water project.

### EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 14.4°C, Nov. 21, 22, 23, 2005; minimum recorded, 11.0°C, March 28, 29, 2005.

#### TEMPERATURE, WATER, DEGREES CELSIUS WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1											12.0	12.3
2											12.0	12.5
3											12.0	12.5
4											12.0	12.5
5											12.0	12.4
6											12.0	12.4
7											12.0	12.7
8											12.0	13.1
9											12.1	13.2
10											12.1	13.0
11											12.1	12.8
12											12.1	12.7
13											12.1	12.7
14											12.1	12.6
15											12.1	12.6
16												12.6
17											12.2	12.9
18											12.2	13.1
19											12.2	13.0
20											12.2	12.9
21											12.2	12.8
22											12.2	12.8
23											12.2	12.8
24											12.2	12.8
25											12.2	12.8
26											12.2	12.8
27											12.3	12.8
28											12.3	13.1
29											12.3	13.2
30										12.1	12.3	13.1
31										12.0	12.3	
MEAN												12.8
MAX												13.2
MIN												12.3

# 352854082380501 BU-071 DENR Bent Creek Research Station MW-2S (Regolith Well)—Continued

### TEMPERATURE, WATER, DEGREES CELSIUS WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	13.0 12.9 12.9 12.9	   	13.9 13.9 13.8 13.8 13.7	13.4 13.4 13.4 13.4 13.4	13.0 13.0 12.9 12.9 12.9	11.6 11.8 11.9 12.0 12.1	11.5 11.4 11.2 11.4 11.6	11.7 11.8 11.8 11.8 11.8	11.6 11.6 11.6 11.6 11.6	12.7 12.5 12.3 12.2 12.3	13.1 12.8 12.6 12.5 12.4	13.2 12.9 12.9 12.8 12.8
6 7 8 9 10	13.2 13.2 13.2	   	13.6 13.6 13.6 13.7 13.7	13.4 13.3 13.3 13.3 13.3	12.9 12.9 12.9 12.9 12.9	12.2 12.2 12.1 12.0 12.1	11.6 11.7 11.6 11.6 11.7	11.8 11.8 11.8 11.8 11.8	11.6 11.6 11.6 11.6 11.6	12.2 12.8 13.3 13.0 12.7	12.4 12.4 13.2 13.2 13.1	12.8 12.8 12.8 12.8 12.8
11 12 13 14 15	13.2 13.2 13.2 13.2 13.2	   	13.7 13.7 13.7 13.6 13.6	13.3 13.3 13.3 12.5 12.4	12.9 12.9 12.9 12.9 12.8	12.2 12.2 12.2 12.2 12.3	11.7 11.8 11.4 11.2 11.3	11.8 11.8 11.8 11.8 11.8	11.6 11.8 12.2 12.1 11.9	12.7 13.3 13.2 13.3 13.0	12.8 12.6 12.6 12.5 12.5	12.8 12.8 12.8 12.8 12.8
16 17 18 19 20	13.2 13.2 13.2 13.2 13.2	   	13.6 13.6 13.6 13.5 13.5	12.6 12.8 12.9 12.9 12.9	12.8 12.8 12.8 12.8 12.8	12.2 12.1 12.0 12.1 12.1	11.4 11.5 11.6 11.7 11.7	11.8 11.8 11.8 11.8 11.7	11.8 11.8 11.7 11.8 12.3	12.9 12.6 12.4 12.5 13.4	12.5 12.5 12.5 12.6 12.6	12.8 12.8 12.9 12.9 12.9
21 22 23 24 25	13.2 13.2 13.2 13.2 13.2	  13.9 14.1	13.5 13.5 13.3 13.2 13.2	13.0 13.0 13.0 13.0 13.0	12.4 11.9 12.1 12.1 12.1	12.1 12.2 11.4 11.3 11.5	11.8 11.7 11.5 11.5 11.6	11.6 11.7 11.7 11.6 11.6	12.3 12.2 12.0 11.9 11.8	13.6 13.3 13.0 12.7 12.5	12.6 12.6 12.7 12.6 12.6	12.9 12.9 12.9 12.9 12.9
26 27 28 29 30 31	13.2 13.3 13.3 13.5 13.5 13.4	14.0 13.9 14.0 13.9 13.8	13.3 13.3 13.4 13.4 13.4 13.4	13.0 13.0 13.1 13.1 13.1 13.1	12.2 12.3 11.9 	11.7 11.7 11.1 11.0 11.2 11.4	11.7 11.7 11.7 11.8 11.8	11.6 11.6 11.6 11.6 11.6 11.6	11.8   12.9	12.4 12.8 13.2 13.4 13.1	12.6 12.6 12.6 12.6 13.2 13.7	13.0 13.0 13.0 13.0 13.0
MEAN MAX MIN	 	 	13.6 13.9 13.2	13.1 13.4 12.4	12.7 13.0 11.9	11.9 12.3 11.0	11.6 11.8 11.2	11.7 11.8 11.6	 	 	12.7 13.7 12.4	12.9 13.2 12.8

352854082380501 BU-071 DENR Bent Creek Research Station MW-2S (Regolith Well)—Continued

### TEMPERATURE, WATER, DEGREES CELSIUS WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.0	13.5										
2	13.0	13.5										
3	13.0	13.5										
4	13.0	13.5										
5	13.1	13.5										
6	13.2	13.5										
7	13.6	13.5										
8	13.6	13.6										
9	13.3	13.6										
10	13.3	13.6										
11	13.2	13.6										
12	13.2	13.6										
13	13.2	13.6										
14	13.2	13.6										
15	13.2	13.6										
16	13.2	13.8										
17	13.4	13.8										
18	13.5	13.7										
19	13.4	13.7										
20	13.4	13.7										
21	13.4	13.8										
22	13.4	14.4										
23	13.4	14.3										
24	13.4	14.1										
25	13.4	13.9										
26	13.4	13.8										
27	13.5	13.8										
28	13.5	13.9										
29	13.5	14.0										
30	13.5	14.0										
31	13.5											
MEAN	13.3	13.7										
MAX	13.6	14.4										
MIN	13.0	13.5										

352854082380502. County number, BU-072; DENR Bent Creek Research Station MW-2I (Transition Zone well).

LOCATION.—Lat 35°28'54", long 82°38'06", Hydrologic Unit 06010105, 1.2 mi north of Blue Ridge Parkway, 3.1 mi west of Brevard Road in Bent Creek Research Forest. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

#### WATER-LEVEL RECORDS

AQUIFER .-- Regolith (saprolitic Biotite Gneiss).

WELL CHARACTERISTICS.--Drilled observation well, depth 36 ft, diameter 4 in., cased to 21 ft, screened interval from 21 to 36 ft, sand filter packed from 18 to 36 ft.

INSTRUMENTATION .-- Water-level recorder collecting data at 60-minute intervals. Satellite telemetry at station.

DATUM.--Land-surface datum is 2,191.72 ft above NGVD of 1929. Measuring point: Top of instrument shelter floor, 2.91 ft above land-surface datum.

REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--February 2003 to current year. Continuous record began July 2004.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.11 ft below land-surface datum, July 3, 2003; lowest water level measured, 8.33 ft below land-surface datum, Feb. 4, 2003.

# DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1											7.84	7.78
2											7.88	7.05
3											7.73	7.23
4											7.89	7.54
5											7.95	7.72
											<b>=</b> 00	
6											7.99	7.77
7											8.06	6.50
8											8.10	5.18
9											8.12	5.91
10											8.13	6.47
11											7.96	6.87
12											7.53	7.15
13											7.61	7.31
14											7.80	7.43
15											7.91	7.53
13											7.91	1.55
16											7.96	7.31
17											7.98	4.83
18											8.01	5.37
19											8.05	5.93
20											8.07	6.30
21											8.06	6.55
22											8.03	6.74
23											8.07	6.87
24											8.10	6.98
25											8.13	7.06
26											8.17	7.14
27											8.19	7.14
28											8.21	
28 29												5.29
										7.50	8.11	5.69
30										7.58	7.67	6.05
31										7.68	7.56	

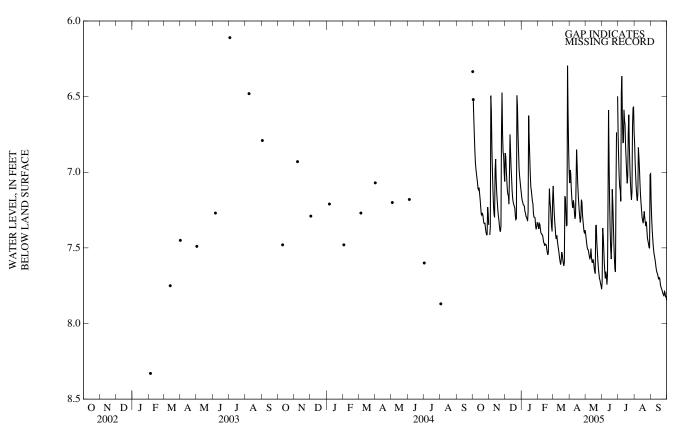
WTR YR 2004 MEAN 7.34 HIGH 4.83 LOW 8.21

352854082380502. County number, BU-072; DENR Bent Creek Research Station MW-2I (Transition Zone well).

## DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

					D. III	31 11112/111	7 ILC LO					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	6.33 6.52 6.64 6.75 6.86	7.41 7.36 6.49 6.60	6.87 6.90 6.98 7.06 7.12	7.16 7.19 7.20 7.22 7.22	7.36 7.37 7.34 7.34 7.37	7.09 7.19 7.27 7.33 7.37	7.07 6.99 7.01 7.10 7.17	7.41 7.44 7.47 7.50 7.51	7.73 7.37 7.42 7.51 7.60	6.75 6.92 7.03 7.10 7.12	6.81 6.94 7.03 7.11 7.16	7.20 7.31 7.38 7.44 7.49
6	6.94	6.85	7.15	7.22	7.40	7.43	7.22	7.51	7.66	7.19	7.19	7.53
7	6.98	7.00	7.16	7.26	7.41	7.44	7.24	7.54	7.70	6.47	7.14	7.55
8	7.01	7.12	7.21	7.27	7.41	7.42	7.19	7.56	7.66	6.36	6.84	7.57
9	7.04	7.22	7.00	7.29	7.41	7.46	7.21	7.58	7.69	6.64	6.90	7.59
10	7.07	7.28	6.75	7.30	7.44	7.48	7.27	7.55	7.74	6.80	6.97	7.63
11	7.11	7.30	6.86	7.31	7.46	7.51	7.31	7.50	7.68	6.80	7.07	7.65
12	7.12	6.98	6.97	7.32	7.47	7.54	7.29	7.56	7.20	6.59	7.15	7.66
13	7.10	6.91	7.04	7.26	7.49	7.57	7.08	7.59	6.59	6.66	7.21	7.67
14	7.15	7.05	7.12	6.62	7.47	7.59	6.85	7.60	6.93	6.69	7.25	7.69
15	7.18	7.13	7.17	6.78	7.48	7.61	6.94	7.58	7.19	6.83	7.30	7.71
16	7.23	7.19	7.20	6.89	7.48	7.58	7.06	7.60	7.38	6.91	7.32	7.70
17	7.28	7.24	7.21	7.01	7.51	7.53	7.14	7.63	7.51	7.00	7.34	7.70
18	7.28	7.28	7.22	7.09	7.53	7.54	7.20	7.66	7.57	7.07	7.30	7.73
19	7.27	7.31	7.24	7.12	7.55	7.57	7.26	7.67	7.45	7.03	7.26	7.76
20	7.28	7.35	7.29	7.15	7.53	7.60	7.30	7.35	7.11	6.74	7.30	7.76
21	7.31	7.38	7.31	7.19	7.26	7.62	7.33	7.35	7.20	6.62	7.33	7.78
22	7.34	7.39	7.31	7.21	7.11	7.60	7.30	7.46	7.34	6.82	7.36	7.79
23	7.34	7.35	6.49	7.27	7.19	7.16	7.18	7.53	7.47	6.96	7.33	7.80
24	7.34	6.73	6.56	7.30	7.23	7.17	7.20	7.59	7.57	7.06	7.38	7.81
25	7.37	6.47	6.74	7.30	7.30	7.26	7.27	7.64	7.64	7.13	7.43	7.82
26 27 28 29 30 31	7.40 7.41 7.41 7.23 7.27 7.35	6.74 6.87 6.89 7.00 7.06	6.86 6.97 7.03 7.06 7.10 7.13	7.30 7.35 7.38 7.36 7.33 7.33	7.36 7.39 7.18 	7.36 7.35 6.29 6.61 6.85 6.99	7.32 7.36 7.39 7.40 7.38	7.67 7.70 7.71 7.74 7.75 7.77	7.66 7.10 6.74  6.50	7.18 7.13 6.69 6.58 6.57 6.73	7.45 7.47 7.50 7.50 7.01 7.01	7.79 7.80 7.82 7.82 7.85

WTR YR 2005 MEAN 7.25 HIGH 6.29 LOW 7.85



### WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 2004 to November 2005 (discontinued).

PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: August 2004 to November 2005.

pH: August 2004 to November 2005.
WATER TEMPERATURE: August 2004 to November 2005.
DISSOLVED OXYGEN: August 2004 to November 2005.
DISSOLVED OXYGEN, PERCENT SATURATION: August 2004 to November 2005.

INSTRUMENTATION .-- Water-quality monitor with satellite telemetry from August 2004 to November 2005.

REMARKS.--Station operated in cooperation with North Carolina Department of Environment and Natural Resources, Division of Water Resources as part of the Piedmont/Mountains ground-water project. Dissolved oxygen, percent saturation, is computed using a barometric pressure of 710 mm Hg.

EXTREMES FOR PERIOD OF DAILY RECORD .--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	78, June 13, 2005	9, August 30, 2004
pH, standard units	5.5, February 3, 4, 5, 2005	5.1, on many days during the period
WATER TEMPERATURE, °C	12.4, on many days during the period	11.8, June 13, 2005
DISSOLVED OXYGEN, mg/L	8.5, August 20, 2004, November 1, 2004	1.5, June 13, 2005
DISSOLVED OXYGEN, PERCENT SATURATION,%	85, August 20, 2004, November 1, 2004	15, June 13, 2005

## SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												11
2												25
3												26
4												18
5												13
6												10
7												35
8												41
9												20
10												18
11												17
12												16
13												14
14												13
15												12
16												14
17												21
18												13
19												13
20												13
21											11	13
22											10	13
23											10	12
24											10	11
25											10	11
26											10	11
27											10	12
28											10	18
29											10	13
30											10	13
31											17	
MEAN												16
MAX												41
MIN												10

# SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	13 12 11 11 11	11 12 17 15	13 13 12 12 12	12 12 12 12 12	11 11 12 13 12	43 37 32 27 22	29 34 40 32 27	19 17 16 15	12 34 34 27 20	33 27 23 21 24	40 30 24 20 19	24 20 19 17 16
6	11	13	12	12	11	19	23	14	17	20	17	15
7	12	13	12	12	11	18	21	14	15	45	20	15
8	12	12	12	12	11	21	25	13	18	53	44	14
9	12	12	13	12	11	22	27	13	20	35	39	12
10	12	12	14	12	11	18	22	13	15	25	33	12
11	12	12	13	12	11	16	20	18	20	25	27	11
12	12	14	13	12	11	16	19	15	44	45	22	11
13	12	14	12	12	11	15	35	14	74	39	20	11
14	12	13	12	19	11	14	48	13	59	40	18	11
15	12	13	12	17	11	13	42	14	43	29	17	10
16	12	12	12	15	11	13	34	14	32	26	17	10
17	12	12	12	14	11	20	28	14	24	21	16	10
18	12	12	12	13	11	22	24	13	21	18	17	11
19	12	12	12	12	11	18	21	12	27	19	22	10
20	12	12	12	12	11	15	19	28	58	40	20	10
21	12	12	12	12	22	15	18	33	55	46	20	10
22	12	12	12	12	37	15	19	24	42	33	18	11
23	12	12	16	12	30	43	30	20	31	26	21	11
24	12	16	14	12	27	45	30	16	24	21	19	11
25	12	15	12	12	25	37	25	14	19	17	17	11
26 27 28 29 30 31	12 12 12 12 13 12	13 13 13 13 12	13 12 12 12 12 12	12 12 12 12 11 11	22 19 33 	30 27 62 52 42 33	21 19 18 17 18	14 13 12 12 12 11	17   47 	16 16 44 53 52 42	16 16 15 15 30 29	11 11 11 11 11
MEAN MAX MIN	12 13 11		12 16 12	13 19 11	16 37 11	27 62 13	26 48 17	16 33 11	 	31 53 16	23 44 15	13 24 10

# SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	11										
2	11	11										
2 3	11	11										
4	11	11										
5	11	11										
6	11	11										
7	19	11										
8	18	11										
9	16	11										
10	14	11										
11	13	11										
12	12	11										
13	11	11										
14	11	11										
15	11	11										
16	11	11										
17	11	11										
18	11	11										
10												
19	11	11										
20	11	11										
21	11	11										
22 23	11	19										
23	11	17										
24	11	15										
25	11	12										
26	11	11										
27	11	11										
28	11	14										
29	11	41										
30	11	28										
31	11											
MEAN	12	13										
MAX	19	41										
MIN	19	11										
IVIIIN	11	11										

### PH, WATER, UNFILTERED, FIELD, STANDARD UNITS WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												5.3
2												5.3
3												5.3
4												5.3
5												5.3
6												5.3
7												5.3
8												5.4
9												5.4
10												5.3
11												5.3
12												5.3
13												5.2
14												5.2
15												5.2
16												5.2
17												5.2
18												5.2
19												5.2
20												5.2
21											5.3	5.2
22											5.3	5.2
23											5.3	5.2
24											5.3	5.2
25											5.3	5.2
26											5.3	5.2
27											5.3	5.2
28											5.3	5.2
29											5.3	5.2
30											5.3	5.2
31											5.3	
MEAN												5.2
MAX												5.4
MIN												5.2

### PH, WATER, UNFILTERED, FIELD, STANDARD UNITS WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	5.2	5.2	5.3	5.4	5.3	5.3	5.3	5.2	5.3	5.3	5.2
2	5.2	5.2	5.2	5.3	5.4	5.3	5.3	5.2	5.3	5.3	5.3	5.2
3	5.2	5.2	5.2	5.3	5.4	5.3	5.3	5.2	5.3	5.3	5.3	5.2
4	5.2	5.2	5.2	5.3	5.5	5.3	5.3	5.2	5.3	5.3	5.3	5.2
5	5.2	5.2	5.2	5.3	5.4	5.3	5.3	5.2	5.2	5.3	5.2	5.2
6	5.2	5.2	5.2	5.3	5.3	5.3	5.2	5.2	5.2	5.3	5.2	5.2
7	5.2	5.2	5.2	5.3	5.3	5.3	5.2	5.2	5.2	5.4	5.2	5.2
8	5.2	5.2	5.2	5.3	5.3	5.3	5.3	5.2	5.2	5.4	5.3	5.2
9	5.2	5.2	5.2	5.3	5.3	5.3	5.3	5.2	5.2	5.3	5.3	5.2
10	5.2	5.2	5.2	5.3	5.3	5.3	5.2	5.1	5.2	5.3	5.2	5.2
11 12 13 14 15	5.2 5.2 5.2 5.2 5.2 5.2	5.2 5.2 5.2 5.2 5.2 5.2	5.2 5.2 5.3 5.3 5.3	5.3 5.3 5.3 5.4 5.4	5.3 5.3 5.3 5.4 5.4	5.3 5.3 5.3 5.2 5.2	5.2 5.2 5.3 5.3 5.3	5.2 5.2 5.2 5.2 5.2 5.2	5.3 5.3 5.4 5.3 5.3	5.3 5.4 5.3 5.4 5.3	5.2 5.2 5.2 5.2 5.2 5.2	5.1 5.1 5.1 5.1 5.1
16	5.2	5.2	5.3	5.4	5.4	5.2	5.3	5.2	5.3	5.3	5.2	5.1
17	5.2	5.2	5.3	5.4	5.4	5.2	5.3	5.2	5.3	5.3	5.2	5.1
18	5.2	5.2	5.3	5.3	5.4	5.2	5.3	5.2	5.3	5.3	5.2	5.1
19	5.2	5.2	5.3	5.3	5.4	5.2	5.2	5.2	5.3	5.3	5.2	5.2
20	5.2	5.2	5.3	5.4	5.4	5.2	5.2	5.2	5.3	5.4	5.2	5.1
21	5.2	5.2	5.3	5.4	5.4	5.2	5.2	5.2	5.3	5.4	5.2	5.2
22	5.2	5.2	5.3	5.4	5.4	5.2	5.2	5.2	5.3	5.3	5.2	5.2
23	5.2	5.2	5.4	5.4	5.4	5.3	5.3	5.2	5.3	5.3	5.2	5.2
24	5.2	5.2	5.3	5.4	5.3	5.3	5.3	5.2	5.3	5.3	5.2	5.2
25	5.2	5.2	5.3	5.4	5.3	5.3	5.3	5.2	5.3	5.3	5.2	5.2
26 27 28 29 30 31	5.2 5.2 5.2 5.2 5.2 5.2 5.2	5.2 5.2 5.2 5.2 5.2	5.3 5.3 5.3 5.3 5.3 5.3	5.4 5.4 5.4 5.4 5.4 5.4	5.3 5.3 5.3 	5.3 5.3 5.3 5.3 5.3 5.3	5.3 5.3 5.2 5.2 5.2	5.2 5.2 5.2 5.2 5.2 5.2 5.2	5.2   5.4 	5.3 5.3 5.3 5.3 5.3	5.2 5.2 5.2 5.2 5.2 5.2 5.2	5.2 5.2 5.2 5.2 5.2
MEAN MAX MIN			5.3 5.4 5.2	5.4 5.4 5.3	5.4 5.5 5.3	5.3 5.3 5.2	5.3 5.3 5.2	5.2 5.3 5.1	 		5.2 5.3 5.2	5.2 5.2 5.1

### PH, WATER, UNFILTERED, FIELD, STANDARD UNITS WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2	5.2 5.2	5.2 5.2										
3	5.2	5.2										
4	5.2	5.2										
5	5.2	5.2										
6	5.2	5.2										
7	5.2	5.2										
8	5.2	5.2										
9	5.2	5.2										
10	5.2	5.2										
11	5.2	5.2										
12	5.2	5.2										
13	5.2	5.2										
14	5.2	5.2										
15	5.2	5.2										
16	5.2	5.2										
17	5.2	5.2										
18	5.2	5.2										
19	5.2	5.2										
20	5.2	5.2										
21	5.2	5.2										
22	5.2	5.3										
23	5.2	5.3										
24	5.2	5.3										
25	5.2	5.3										
26	5.2	5.3										
27	5.2	5.3										
28	5.2	5.3										
29	5.2	5.3										
30	5.2	5.3										
31	5.2											
MEAN	5.2	5.2										
MAX	5.2	5.3										
MIN	5.2	5.2										

### TEMPERATURE, WATER, DEGREES CELSIUS WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												12.0
2												12.0
3												12.0
4												12.0
5												12.0
6												12.0
7												12.0
8												12.0
9												12.0
10												12.0
11												12.0
12												12.0
13												12.0
14												12.0
15												12.0
16												12.0
17												12.0
18												12.0
19												12.0
20												12.0
21											12.0	12.0
22											12.0	12.0
23											12.0	12.0
24											12.0	12.0
25											12.0	12.0
26											12.0	12.0
27											12.0	12.0
28											12.0	12.1
29											12.0	12.1
30											12.0	12.1
31											12.0	
MEAN												12.0
MAX												12.1
MIN												12.0

### TEMPERATURE, WATER, DEGREES CELSIUS WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.1	12.1	12.2	12.3	12.3	12.4	12.3	12.3	12.2	12.0	12.1	12.1
2	12.1	12.1	12.2	12.3	12.3	12.4	12.3	12.3	12.1	12.1	12.1	12.1
3	12.1	12.1	12.2	12.3	12.4	12.4	12.2	12.3	12.1	12.1	12.1	12.1
4	12.1	12.1	12.2	12.3	12.4	12.4	12.3	12.3	12.1	12.1	12.1	12.1
5	12.1	12.1	12.2	12.3	12.4	12.4	12.3	12.3	12.2	12.1	12.1	12.1
6	12.1	12.1	12.2	12.3	12.4	12.4	12.3	12.3	12.2	12.1	12.1	12.1
7	12.1	12.1	12.2	12.3	12.4	12.4	12.3	12.3	12.2	12.0	12.1	12.1
8	12.1	12.1	12.2	12.3	12.4	12.4	12.3	12.3	12.2	12.0	12.1	12.1
9	12.1	12.1	12.2	12.3	12.4	12.4	12.3	12.3	12.2	12.1	12.1	12.1
10	12.1	12.2	12.2	12.3	12.4	12.4	12.3	12.3	12.2	12.1	12.1	12.1
11	12.1	12.2	12.2	12.3	12.4	12.4	12.3	12.2	12.2	12.1	12.1	12.1
12	12.1	12.2	12.2	12.3	12.4	12.4	12.3	12.3	12.0	12.0	12.1	12.1
13	12.1	12.2	12.2	12.3	12.4	12.4	12.2	12.3	11.8	12.1	12.1	12.1
14	12.1	12.2	12.2	12.3	12.4	12.4	12.1	12.3	11.9	12.0	12.1	12.1
15	12.1	12.2	12.2	12.3	12.4	12.4	12.2	12.3	12.0	12.1	12.1	12.1
16	12.1	12.2	12.2	12.3	12.4	12.4	12.2	12.3	12.1	12.1	12.1	12.1
17	12.1	12.2	12.2	12.3	12.4	12.4	12.2	12.3	12.1	12.1	12.1	12.1
18	12.1	12.2	12.2	12.3	12.4	12.4	12.3	12.3	12.1	12.1	12.1	12.1
19	12.1	12.2	12.3	12.3	12.4	12.4	12.3	12.3	12.1	12.1	12.1	12.1
20	12.1	12.2	12.3	12.3	12.4	12.4	12.3	12.2	11.9	12.1	12.1	12.1
21	12.1	12.2	12.3	12.3	12.4	12.4	12.3	12.1	12.0	12.1	12.1	12.1
22	12.1	12.2	12.3	12.3	12.4	12.4	12.3	12.2	12.0	12.1	12.1	12.1
23	12.1	12.2	12.3	12.3	12.4	12.3	12.2	12.2	12.1	12.1	12.1	12.1
24	12.1	12.2	12.3	12.3	12.4	12.3	12.2	12.2	12.1	12.1	12.1	12.1
25	12.1	12.2	12.3	12.3	12.4	12.3	12.2	12.2	12.1	12.1	12.1	12.1
26 27 28 29 30 31	12.1 12.1 12.1 12.1 12.1 12.1	12.2 12.2 12.2 12.2 12.2	12.3 12.3 12.3 12.3 12.3 12.3	12.3 12.3 12.3 12.3 12.3 12.3	12.4 12.4 12.4 	12.3 12.3 12.2 12.2 12.2 12.3	12.3 12.3 12.3 12.3 12.3	12.2 12.2 12.2 12.2 12.2 12.2	12.1   12.0	12.1 12.1 12.1 12.1 12.1 12.1	12.1 12.1 12.1 12.1 12.1	12.1 12.1 12.1 12.1 12.1
MEAN MAX MIN	12.1 12.1 12.1	12.2 12.2 12.1	12.2 12.3 12.2	12.3 12.3 12.3	12.4 12.4 12.3	12.4 12.4 12.2	12.3 12.3 12.1	12.3 12.3 12.1	 	12.1 12.1 12.0	 	12.1 12.1 12.1

### TEMPERATURE, WATER, DEGREES CELSIUS WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	12.1 12.1 12.2 12.2 12.2	12.2 12.2 12.2 12.2 12.2	   	   	  	   	  	  	   	  	   	  
6 7 8 9 10	12.2 12.2 12.2 12.2 12.2	12.2 12.2 12.2 12.2 12.2	   	   	  	  	  	  	   	  	  	  
11 12 13 14 15	12.2 12.2 12.2 12.2 12.2	12.2 12.2 12.2 12.2 12.2	   	   	  	   	   	   	   	  	   	  
16 17 18 19 20	12.2 12.2 12.2 12.2 12.2	12.2 12.3 12.3 12.3 12.3	   	   	  	   	  	   	   	  	   	  
21 22 23 24 25	12.2 12.2 12.2 12.2 12.2	12.3 12.3 12.3 12.3 12.3	   	   	  	   	  	   	   	  	   	  
26 27 28 29 30 31	12.2 12.2 12.2 12.2 12.2 12.2	12.3 12.3 12.3 12.3 12.3	   									
MEAN MAX MIN	12.2 12.2 12.1	12.2 12.3 12.2	 	 			 		 			 

# DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												8.1
2												6.0
3												6.3
4												7.1
5												7.7
6												7.9
7												5.0
8												4.5
9												6.8
10												6.9
11												6.8
12												6.9
13												6.8
14												6.9
15												7.0
16												6.8
17												6.2
18												6.8
19												6.8
20												6.8
21											8.0	6.9
22											8.2	6.9
23											8.2	7.0
24											8.2	7.0
25											8.2	7.1
26											8.2	7.2
27											8.1	7.2
28											8.2	6.8
29											8.2	7.1
30											8.1	7.1
31											7.0	
MEAN												6.8
MAX												8.1
MIN												4.5

## DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

NOV DAY OCT DEC JAN **FEB** MAR APR MAY JUN JUL AUG SEP 7.2 8.0 7.5 7.7 7.8 4.6 5.4 6.2 7.3 4.4 4.8 6.5 7.7 7.7 7.7 7.9 2 7.1 7.4 7.9 5.1 5.0 6.5 5.2 4.9 5.5 6.8 5.5 5.9 6.9 7.1 3 7.9 7.3 7.9 5.1 5.2 5.9 4.6 7.2 6.6 4 7.2 7.3 7.8 5.4 6.3 7.4 5.1 6.7 5.8 5 7.3 7.6 7.3 7.8 7.9 6.4 5.4 6.8 6.4 5.2 6.5 7.1 7.6 7.4 7.8 7.9 6.7 5.7 6 5.7 6.9 6.7 6.6 7.2 7.3 7.9 6.9 7 7.6 7.4 7.8 6.8 6.0 6.9 3.9 6.4 7.3 8 7.4 7.6 7.5 7.9 7.9 6.5 5.6 7.0 6.5 3.5 4.4 7.4 9 7.4 7.5 7.5 7.9 7.9 6.3 5.5 7.1 6.4 4.6 5.0 7.5 7.5 7.9 7.5 10 7.5 7.5 7.9 6.7 5.9 7.1 6.8 5.3 5.4 11 7.5 7.9 7.0 6.3 7.6 6.1 6.6 7.6 7.7 7.6 7.4 7.5 8.0 7.9 7.1 6.2 6.9 4.2 4.1 6.3 12 13 7.6 7.5 7.4 8.0 7.9 7.2 4.8 7.0 1.8 4.5 6.5 7.9 7.3 7.5 7.4 7.3 3.8 4.5 6.7 7.7 14 7.6 7.1 3.1 7.8 15 7.7 7.5 7.5 7.5 8.0 7.3 4.4 7.0 4.3 5.2 6.8 8.0 7.0 6.9 16 7.7 7.4 7.5 7.7 7.3 4.9 5.1 5.6 7.8 7.7 7.7 7.5 7.0 17 7.7 7.4 7.9 6.6 5.3 7.1 5.6 6.0 7.8 7.7 7.4 7.6 7.9 57 5.9 7.8 18 6.3 7.2 6.2 6.9 6.2 4.7 7.7 7.9 6.7 19 7.7 7.5 7.6 5.9 7.3 5.4 6.5 7.8 7.7 20 7.7 7.5 7.6 8.0 7.0 5.8 3.0 6.7 7.8 21 22 7.8 7.7 7.6 6.8 6.2 5.3 3.3 4.4 6.8 7.8 7.8 7.6 7.7 7.8 5.2 7.4 6.1 6.0 4.2 5.3 6.9 7.8 23 7.8 7.4 7.8 5.9 4.5 6.5 5.0 5.9 6.6 7.8 5.2 7.8 7.4 7.6 7.8 6.1 4.4 6.8 5.6 6.3 6.9 7.8 25 7.8 7.4 7.6 7.8 6.3 5.1 5.6 7.0 5.9 6.7 7.1 7.9 7.8 7.8 5.7 7.1 7.1 26 7.6 7.6 6.7 6.0 6.1 6.8 7.9 5.9 2.9 6.9 5.5 7.9 7.9 27 7.8 7.5 7.5 7.6 7.5 6.2 6.3 7.1 6.8 7.2 7.3 7.7 28 7.8 7.2 ---4.4 29 7.9 7.9 7.8 7.8 3.8 7.2 3.8 7.4 7.5 7.6 ---6.4 30 7.2 7.9 7.8 7.4 ---4.5 3.6 40 6.0 7.6 6.3 7.3 31 7.8 5.1 7.8 7.6 ------4.6 6.1 ---MEAN 7.4 6.8 5.1 6.4 7.6 7.7 MAX 8.0 7.3 6.8 7.4 7.9 MIN 7.3 5.2 5.3 3.5 4.4 6.5

# DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.9	7.9										
2 3	7.9 7.9	7.9 7.9										
4	7.9 7.9	7.9 7.9										
5	7.9 7.9	7.9 7.9										
3	7.9	7.9										
6	7.9	7.9										
7	7.2	7.9										
8	7.3	7.9										
9	7.6	7.9										
10	7.7	7.9										
11	7.7	7.9										
12	7.8	7.9										
13	7.8	7.9										
14	7.8	7.9										
15	7.8	7.9										
16	7.8	7.9										
17	7.8	8.0										
18	7.8	8.0										
19	7.8	8.0										
20	7.8	8.0										
20	7.0	0.0										
21	7.8	7.9										
22	7.8	7.0										
23	7.8	7.3										
24	7.8	7.5										
25	7.8	7.9										
26	7.8	7.8										
27	7.8	7.8										
28	7.8	7.4										
29	7.9	4.7										
30	7.9	6.1										
31	7.9											
MEAN	7.8	7.7										
MAX	7.9	8.0										
MIN	7.2	4.7										

# DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												81
2												60
3												63
4												71
5												77
6												79
7												50
8												45
9												68
10												69
11												68
12												69
13												68
14												69
15												70
16												<b>CO</b>
16												68
17												62
18												68
19												68
20												68
21											80	69
22											82	69
23											82	70
24											82	70
25											82	71
23											62	/ 1
26											82	72
27											81	72
28											82	68
29											82	71
30											81	71
31											70	
MEAN												68
MAX												81
MIN												45

# DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	72 71 72 72 73	80 79 79 74 76	75 74 73 73 74	77 77 77 77 78	78 79 79 78 79	46 51 55 59 64	54 50 46 51 54	62 65 66 67 68	73 52 51 58 64	44 49 52 54 52	48 55 59 63 65	65 68 69 71 71
6 7 8 9 10	73 74 74 75	76 76 76 75 75	74 74 75 75 75	78 78 79 79 79	79 79 79 79 79	67 68 65 64 67	57 60 56 55 59	69 69 70 71 71	67 69 65 64 68	57 39 35 46 53	66 64 44 50 54	72 73 74 75 76
11 12 13 14 15	75 76 76 76 77	75 74 75 75 75	75 75 74 74 75	79 80 80 73 75	79 79 79 79 80	70 71 72 73 73	61 62 48 38 44	66 69 70 71 70	63 42 18 31 43	54 41 45 45 52	59 63 65 67 68	76 76 77 77 78
16 17 18 19 20	77 77 77 77 77	74 74 74 75 75	75 75 76 76 76	77 77 77 77 77	80 79 79 79 80	73 66 63 67 70	49 53 56 59	70 71 72 73 58	51 56 59 54 30	56 60 62 62 47	69 70 69 65 67	78 78 78 78 78
21 22 23 24 25	78 78 78 78 78	76 76  74 74	77 77 74 76 76	77 78 78 78 78	68 52 59 61 63	72 74 45 44 51	62 61 52 52 56	53 60 65 68 70	33 42 50 56 59	44 53 59 63 67	68 69 66 69 71	78 78 78 78 79
26 27 28 29 30 31	78 78 78 79 78 78	76 75 75 75 74	76 76 76 76 76 76	78 78 77 78 78 79	67 69 55 	57 59 29 38 45 51	60 62 63 64 64	71 71 72 72 72 72 73	61   36 	68 69 44 38 40 46	71 72 73 74 60	79 79 79 79 79
MEAN MAX MIN			75 77 73	78 80 73	74 80 52	60 74 29		68 73 53	 	51 69 35		76 79 65

# DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	79										
2	79	79										
2 3	79	79										
4	79	79										
5	79	79										
6	79	79										
7	72	79										
8	73	79										
9	76	79										
10	77	79										
11	77	79										
12	78	79										
13	78	79										
14	78	79										
15	78	79										
16	78	79										
17	78	80										
18	78	80										
19	78	80										
20	78	80										
21	70	79										
21 22	78 78											
		70										
23	79 70	74 76										
24 25	78	76 70										
25	78	79										
26	78	78										
27	78	78										
28	78	74										
29	79	47										
30	79	61										
30 31	79											
MEAN	70	77										
MEAN	78	77										
MAX	79 72	80										
MIN	72	47										

CED

### BUNCOMBE COUNTY—Continued

352854082380503. County number, BU-073; DENR Bent Creek Research Station MW-2D (Bedrock well).

LOCATION.—Lat 35°28'54", long 82°38'06", Hydrologic Unit 06010105, 1.2 mi north of Blue Ridge Parkway, 3.1 mi west of Brevard Road in Bent Creek Research Forest. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

#### WATER-LEVEL RECORDS

AQUIFER .-- Biotite Gneiss.

OCT

NOV

D 4 37

WELL CHARACTERISTICS.--Drilled observation well, depth 300 ft, diameter 6 in., cased to 53 ft, open hole from 53 to 300 ft.

INSTRUMENTATION .-- Water-level recorder collecting data at 60-minute intervals. Satellite telemetry at station.

DATUM.--Land-surface datum is 2,190.15 ft above NGVD of 1929. Measuring point: Top of 2-inch steel riser casing, 9.55 ft above land-surface datum.

REMARKS.--Well is part of Piedmont/Mountains groundwater project.

DEC

PERIOD OF RECORD.--February 2003 to current year. Continuous record began August 2004.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 6.91 ft above land-surface datum, Aug. 20, 2004; lowest water level recorded, 8.35 ft above land-surface datum, July 7, 2005.

## DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

A DD

N / A N /

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MAD

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												-7.13
2												-7.18
3												-7.19
4												-7.18
5												-7.18
6												-7.20
7												-7.31
8												-7.54
9												-7.49
10												-7.45
1.1												7.44
11												-7.44
12												-7.43
13												-7.42
14												-7.42
15												-7.42
16												-7.46
17												-7.79
18												-7.75
19												-7.74
20												-7.73
20												7.75
21											-7.01	-7.73
22											-7.02	-7.72
23											-7.03	-7.72
24											-7.04	-7.73
25											-7.04	-7.73
26											-7.05	-7.74
27											-7.06	-7.77
28											-7.07	-7.92
29											-7.09	-7.91
30											-7.13	-7.90
31											-7.13	

WTR YR 2004 MEAN -7.41 HIGH -7.92 LOW -7.01

## GROUND-WATER LEVELS

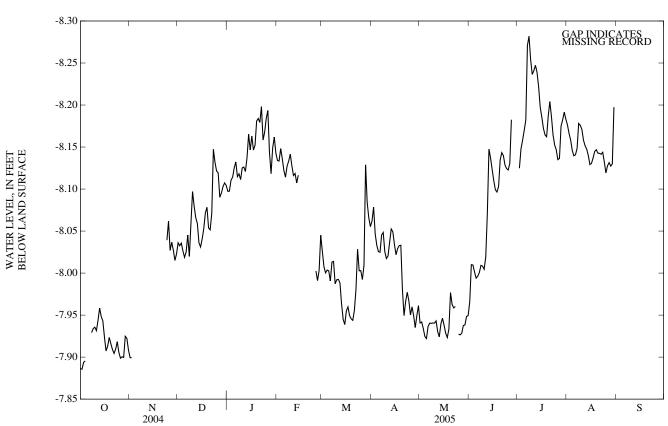
## BUNCOMBE COUNTY—Continued

352854082380503. County number, BU-073; DENR Bent Creek Research Station MW-2D (Bedrock well)

## DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-7.89	-7.90	-8.04	-8.10	-8.13	-8.03	-8.06	-7.94	-7.97		-8.18	
2	-7.89	-7.90	-8.03	-8.10	-8.13	-8.01	-8.08	-7.94	-8.01	-8.12	-8.17	
2 3	-7.89	7.50	-8.04	-8.11	-8.15	-8.00	-8.05	-7.93	-8.01	-8.15	-8.16	
4	-7.90		-8.03	-8.11	-8.13	-8.00	-8.03	-7.93 -7.92	-8.00	-8.16	-8.15	
5	-7.90		-8.03	-8.11	-8.12	-8.00	-8.03	-7.92 -7.92	-8.00 -7.99	-8.17	-8.13 -8.14	
3			-6.02	-6.13	-0.12	-8.00	-8.03	-1.92	-7.99	-0.17	-6.14	
6			-8.03	-8.13	-8.11	-7.99	-8.02	-7.94	-8.00	-8.18	-8.14	
7			-8.05	-8.11	-8.13	-8.01	-8.05	-7.94	-8.00	-8.27	-8.15	
8	-7.93		-8.02	-8.12	-8.13	-8.01	-8.05	-7.94	-8.01	-8.28	-8.18	
9	-7.93		-8.06	-8.11	-8.14	-7.99	-8.03	-7.94	-8.01	-8.25	-8.18	
10	-7.94		-8.10	-8.13	-8.13	-7.99	-8.02	-7.94	-8.00	-8.24	-8.17	
11	-7.93		-8.08	-8.13	-8.12	-7.99	-8.02	-7.94	-8.02	-8.24	-8.16	
12	-7.94		-8.07	-8.12	-8.12	-7.99	-8.04	-7.93	-8.07	-8.25	-8.15	
13	-7.9 <del>4</del> -7.96		-8.06	-8.14	-8.11	-7.99 -7.96	-8.05	-7.93 -7.92	-8.15	-8.24	-8.15	
13	-7.96 -7.95		-8.04	-8.17	-8.11	-7.96 -7.95	-8.05	-7.92 -7.94	-8.13 -8.14	-8.22	-8.13 -8.14	
15	-7.94		-8.03	-8.15		-7.94	-8.03	-7.95	-8.12	-8.20	-8.13	
16	-7.92		-8.04	-8.16		-7.96	-8.02	-7.94	-8.11	-8.19	-8.13	
17	-7.91		-8.05	-8.15		-7.96	-8.03	-7.93	-8.10	-8.17	-8.14	
18	-7.91		-8.07	-8.15		-7.95	-8.03	-7.92	-8.10	-8.16	-8.14	
19	-7.92		-8.08	-8.18		-7.95	-8.03	-7.93	-8.10	-8.16	-8.15	
20	-7.92		-8.05	-8.18		-7.94	-7.98	-7.98	-8.13	-8.19	-8.14	
							7.50	7.70	0.15			
21	-7.91		-8.05	-8.18		-7.96	-7.95	-7.96	-8.14	-8.20	-8.14	
22	-7.90		-8.07	-8.20		-7.98	-7.97	-7.96	-8.14	-8.19	-8.14	
23	-7.91		-8.15	-8.16		-8.03	-7.98	-7.96	-8.13	-8.16	-8.14	
24	-7.92	-8.04	-8.13	-8.17		-8.00	-7.97		-8.12	-8.15	-8.13	
25	-7.91	-8.06	-8.12	-8.18	-8.00	-8.00	-7.95	-7.93	-8.12	-8.15	-8.12	
26	-7.90	-8.03	-8.12	-8.19	-7.99	-7.99	-7.96	-7.93	-8.13	-8.13	-8.13	
27	-7.90	-8.04	-8.09	-8.14	-8.00	-8.01	-7.95	-7.93	-8.18	-8.14	-8.13	
28	-7.90	-8.03	-8.10	-8.12	-8.04	-8.13	-7.94	-7.94		-8.18	-8.13	
29	-7.92	-8.02	-8.10	-8.15		-8.08	-7.95	-7.94		-8.18	-8.13	
30	-7.92	-8.02	-8.11	-8.16		-8.07	-7.96	-7.95		-8.19	-8.20	
31	-7.91		-8.10	-8.14		-8.06		-7.95		-8.18		

WTR YR 2005 MEAN -8.06 HIGH -8.28 LOW -7.89



### 352854082380503 BU-073 DENR Bent Creek Research Station MW-2D (Bedrock Well)—Continued

### WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 2004 to August 2005 (discontinued).

PERIOD OF DAILY RECORD .--

WATER TEMPERATURE: July 2004 to August 2005.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry from July 2004 to August 2005.

REMARKS.--Station operated in cooperation with North Carolina Department of Environment and Natural Resources, Division of Water Resources as part of the Piedmont/Mountains ground-water project.

### EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 13.1°C, on many days during the period; minimum recorded, 13.0°C, on many days during the period.

#### TEMPERATURE, WATER, DEGREES CELSIUS WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1											13.0	
2											13.0	
3											13.0	
4											13.0	
5											13.0	
6											13.0	
7											13.0	
8											13.0	
9											13.0	
10											13.0	
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30										13.0		
31										13.0		
MEAN												
MAX												
MIN												

## 352854082380503 BU-073 DENR Bent Creek Research Station MW-2D (Bedrock Well)—Continued

### TEMPERATURE, WATER, DEGREES CELSIUS WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	   	13.1 13.1 	13.1 13.1 13.1 13.1 13.1	13.1 13.1 13.1 13.1 13.1	13.1 13.1 13.1 13.1 13.1	13.1 13.1 13.1 13.1 13.1	13.1 13.1 13.1 13.1 13.1	  	13.0 13.0 13.0 13.0 13.0	13.0 13.0 13.0 13.0 13.0	13.0 13.0 13.0 13.0 13.0	  
6 7 8 9 10	13.1 13.1 13.1 13.1	  	13.1 13.1 13.1 13.1 13.1	13.1 13.1 13.1 13.1 13.1	13.1 13.1 13.1 13.1 13.1	13.1 13.1 13.1 13.1 13.1	13.1 13.1 	  	13.0 13.0 13.0 13.0 13.0	13.0 13.0 13.0 13.0 13.0	13.0 13.0 13.0 13.0 13.0	  
11 12 13 14 15	13.1 13.1 13.1 13.1 13.1	  	13.1 13.1 13.1 13.1 13.1	13.1 13.1 13.1 13.1 13.1	13.1 13.1 13.1 13.1	13.1 13.1 13.1 13.1 13.1	   	   	13.0 13.0 13.0 13.0 13.0	13.0 13.0 13.0 13.0 13.0	13.0 13.0 	  
16 17 18 19 20	13.1 13.1 13.1 13.1 13.1	  	13.1 13.1 13.1 13.1 13.1	13.1 13.1 13.1 13.1 13.1	  	13.1 13.1 13.1 13.1 13.1	   	  	13.0 13.0 13.0 13.0 13.0	13.0 13.0 13.0 13.0 13.0	   	  
21 22 23 24 25	13.1 13.1 13.1 13.1 13.1	13.1 13.1	13.1 13.1 13.1 13.1 13.1	13.1 13.1 13.1 13.1 13.1	   13.1	13.1 13.1 13.1 13.1 13.1	   	   13.0	13.0 13.0 13.0 13.0 13.0	13.0 13.0 13.0 13.0 13.0	   	  
26 27 28 29 30 31	13.1 13.1 13.1 13.1 13.1 13.1	13.1 13.1 13.1 13.1	13.1 13.1 13.1 13.1 13.1 13.1	13.1 13.1 13.1 13.1 13.1 13.1	13.1 13.1 13.1 	13.1 13.1 13.1 13.1 13.1 13.1	   	13.0 13.0 13.0 13.0 13.0 13.0	13.0   	13.0 13.0 13.0 13.0 13.0 13.0	   	   
MEAN MAX MIN	 	 	13.1 13.1 13.1	13.1 13.1 13.1	 	13.1 13.1 13.1	 		 	13.0 13.0 13.0	 	 

352856082381201. County number, BU-074; DENR Bent Creek Research Station MW-3S (Regolith well).

LOCATION.--Lat 35°28'57", long 82°38'12", Hydrologic Unit 06010105, 1.2 mi north of Blue Ridge Parkway, 3.1 mi west of Brevard Road in Bent Creek Research Forest. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Regolith (saprolitic Biotite Gneiss).

WELL CHARACTERISTICS.--Drilled observation well, depth 30 ft, diameter 4 in., cased to 15 ft, screened interval from 15 to 30 ft, sand filter packed from 13 to 25 ft, natural fill from 25 to 30 ft.

INSTRUMENTATION .-- Measured periodically with steel tape.

DATUM.--Land-surface datum is 2,210.12 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.82 ft above land-surface datum.

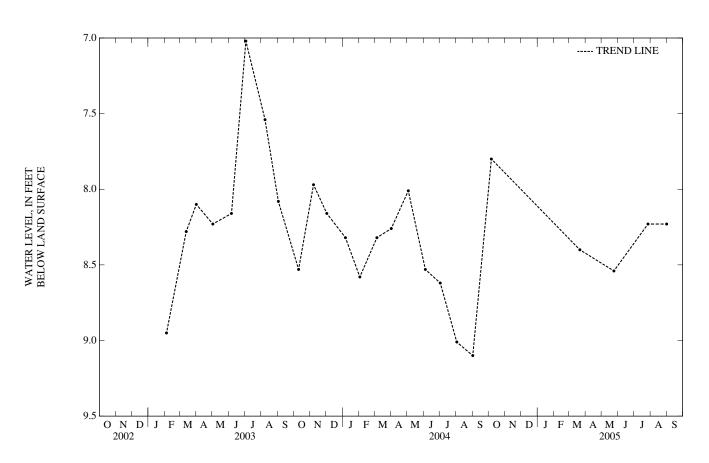
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD .-- February 2003 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.02 ft below land-surface datum, July 3, 2003; lowest water level measured, 9.10 ft below land-surface datum, Sept. 1, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL									
OCT 06	7.80	MAR 21	8.40	MAY 24	8.54	JUL 27	8.23	AUG 31	8.23	



352856082381202. County number, BU-075; DENR Bent Creek Research Station MW-3I (Transition Zone well).

LOCATION.--Lat 35°28'57", long 82°38'12", Hydrologic Unit 06010105, 1.2 mi north of Blue Ridge Parkway, 3.1 mi west of Brevard Road in Bent Creek Research Forest. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Regolith (saprolitic Biotite Gneiss).

WELL CHARACTERISTICS.--Drilled observation well, depth 50 ft, diameter 4 in., cased to 35 ft, screened interval from 35 to 50 ft, sand filter packed from 33 to 50 ft.

INSTRUMENTATION .-- Measured periodically with steel tape.

DATUM.--Land-surface datum is 2,209.45 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 3.06 ft above land-surface datum.

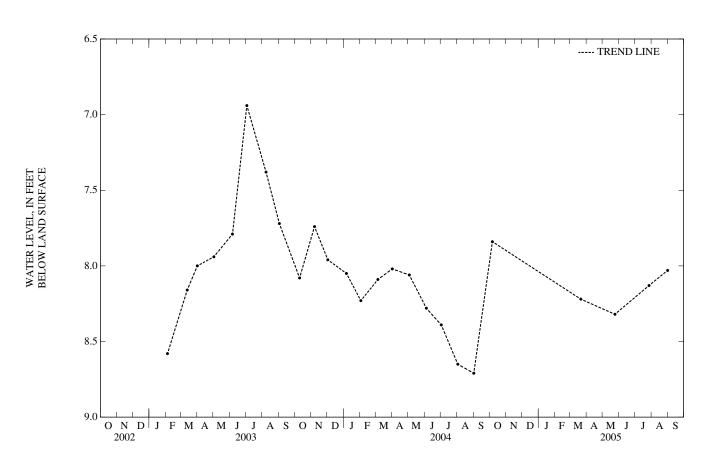
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD .-- February 2003 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.94 ft below land-surface datum, July 3, 2003; lowest water level measured, 8.71 ft below land-surface datum, Sept. 1, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

	WATER									
DATE	LEVEL									
OCT 06	7.84	MAR 21	8.22	MAY 24	8.32	JUL 27	8.13	AUG 31	8.03	



352856082381203. County number, BU-076; DENR Bent Creek Research Station MW-3D (Bedrock well).

LOCATION.--Lat 35°28'57", long 82°38'12", Hydrologic Unit 06010105, 1.2 mi north of Blue Ridge Parkway, 3.1 mi west of Brevard Road in Bent Creek Research Forest. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Biotite Gneiss.

WELL CHARACTERISTICS.--Drilled observation well, depth 300 ft, diameter 6 in., cased to 61 ft, open hole from 61 to 300 ft.

INSTRUMENTATION.--Measured periodically with steel tape.

DATUM.--Land-surface datum is 2,209.07 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.74 ft above land-surface datum.

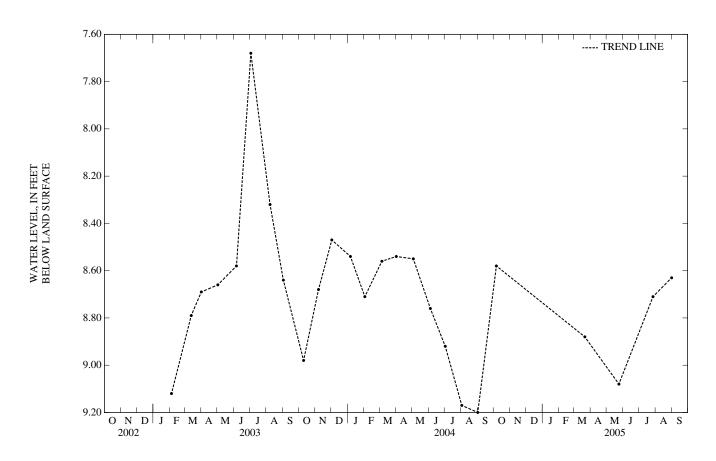
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--February 2003 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.68 ft below land-surface datum, July 3, 2003; lowest water level measured, 9.20 ft below land-surface datum, Sept. 1, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

	WATER								
DATE	LEVEL								
OCT 06	8.58	MAR 21	8.88	MAY 24	9.08	JUL 27	8.71	AUG 31	8.63



352808082382601. County number, BU-077; DENR Bent Creek Research Station MW-4S (Regolith well).

LOCATION.--Lat 35°28'08", long 82°38'27", Hydrologic Unit 06010105, 1.2 mi north of Blue Ridge Parkway, 3.1 mi west of Brevard Road in Bent Creek Research Forest. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Regolith (saprolitic Biotite Gneiss).

WELL CHARACTERISTICS.--Drilled observation well, depth 22 ft, diameter 4 in., cased to 7 ft, screened interval from 7 to 22 ft, sand filter packed from 5 to 22 ft.

INSTRUMENTATION .-- Measured periodically with steel tape.

DATUM.--Land-surface datum is 2,259.66 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 3.12 ft above land-surface datum.

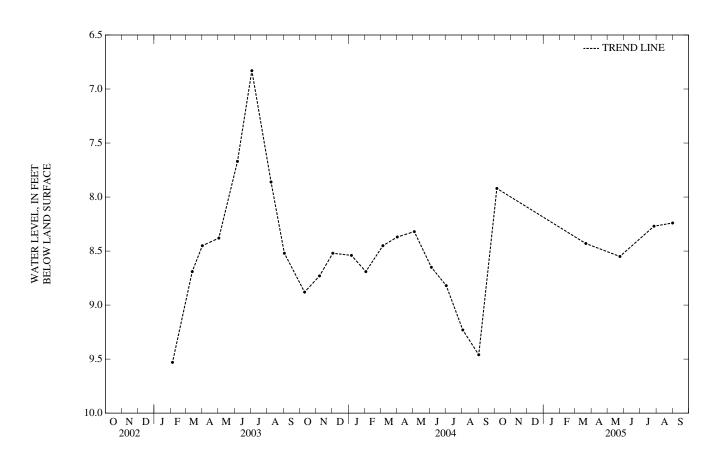
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD .-- February 2003 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.83 ft below land-surface datum, July 3, 2003; lowest water level measured, 9.53 ft below land-surface datum, Feb. 4, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

	WATER								
DATE	LEVEL								
OCT 05	7.92	MAR 21	8.43	MAY 24	8.55	JUL 27	8.27	AUG 31	8.24



352808082382602. County number, BU-078; DENR Bent Creek Research Station MW-4I (Transition Zone well).

LOCATION.--Lat 35°28'08", long 82°38'26", Hydrologic Unit 06010105, 1.2 mi north of Blue Ridge Parkway, 3.1 mi west of Brevard Road in Bent Creek Research Forest. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Regolith (saprolitic Biotite Gneiss).

WELL CHARACTERISTICS.--Drilled observation well, depth 41 ft, diameter 4 in., cased to 26 ft, screened interval from 26 to 41 ft, sand filter packed from 24 to 41 ft.

INSTRUMENTATION .-- Measured periodically with steel tape.

DATUM.--Land-surface datum is 2,258.80 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 3.02 ft above land-surface datum.

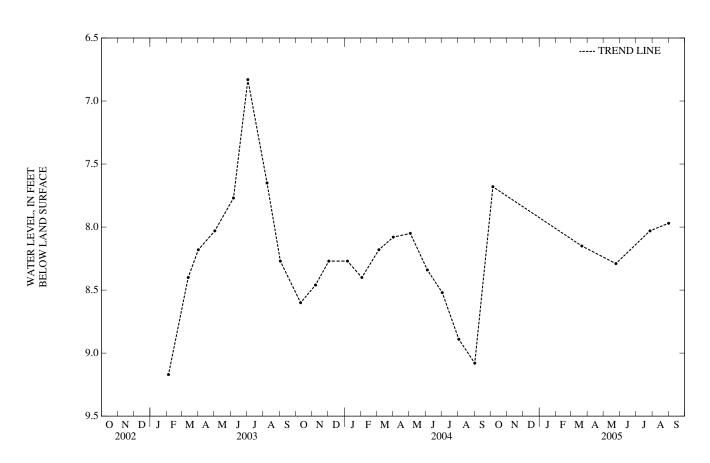
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD .-- February 2003 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.83 ft below land-surface datum, July 3, 2003; lowest water level measured, 9.17 ft below land-surface datum, Feb. 4, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

	WATER									
DATE	LEVEL									
OCT 05	7.68	MAR 21	8.15	MAY 24	8.29	JUL 27	8.03	AUG 31	7.97	



### **GROUND-WATER LEVELS**

### BUNCOMBE COUNTY—Continued

352808082382603. County number, BU-079; DENR Bent Creek Research Station MW-4D (Bedrock well).

LOCATION.--Lat 35°28'08", long 82°38'26", Hydrologic Unit 06010105, 1.2 mi north of Blue Ridge Parkway, 3.1 mi west of Brevard Road in Bent Creek Research Forest. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Biotite Gneiss.

WELL CHARACTERISTICS.--Drilled observation well, depth 501 ft, diameter 6 in., cased to 61 ft, open hole from 61 to 501 ft.

INSTRUMENTATION.--Measured periodically with steel tape.

DATUM.--Land-surface datum is 2,258.53 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 3.02 ft above land-surface datum.

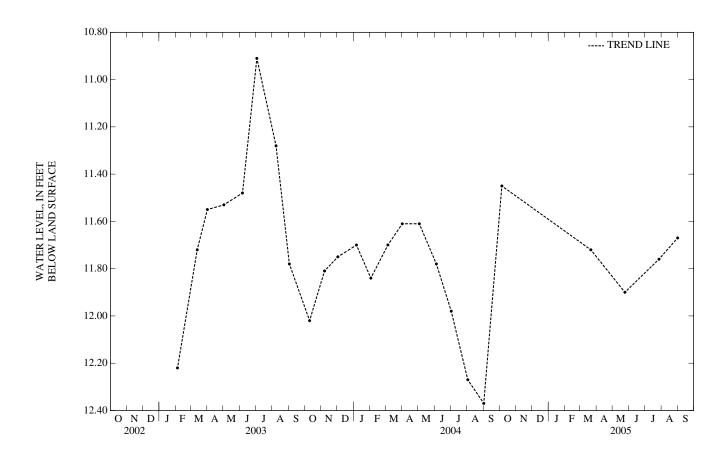
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--February 2003 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.91 ft below land-surface datum, July 3, 2003; lowest water level measured, 12.37 ft below land-surface datum, Sept. 1, 2004.

#### WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

	WATER		WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
OCT 05	11.45	MAR 21	11.72	MAY 24	11.90	Ш. 27	11.76	AUG 31	11.67



352810082383501. County number, BU-080; DENR Bent Creek Research Station MW-5S (Regolith well).

LOCATION.--Lat 35°28'10", long 82°38'35", Hydrologic Unit 06010105, 1.2 mi north of Blue Ridge Parkway, 3.1 mi west of Brevard Road in Bent Creek Research Forest. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Regolith (saprolitic Biotite Gneiss).

WELL CHARACTERISTICS.—Drilled observation well, depth 24 ft, diameter 4 in., cased to 9 ft, screened interval from 9 to 24 ft, sand filter packed from 7 to 9 ft, natural fill from 9 to 24 ft.

INSTRUMENTATION .-- Measured periodically with steel tape.

DATUM.--Land-surface datum is 2,299.99 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 3.01 ft above land-surface datum.

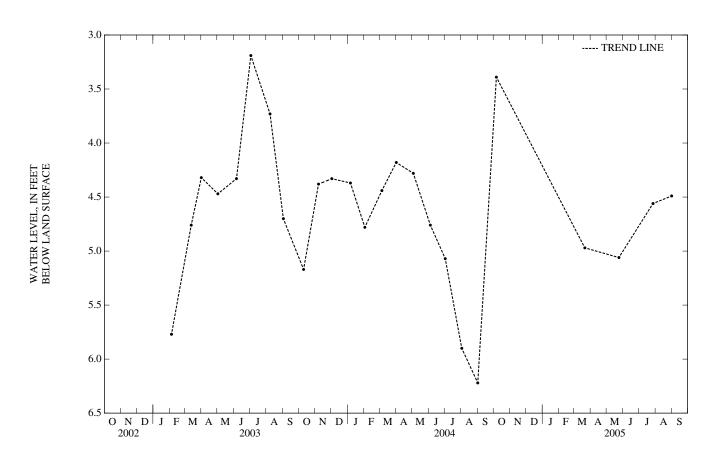
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD .-- February 2003 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.19 ft below land-surface datum, July 3, 2003; lowest water level measured, 6.22 ft below land-surface datum, Sept. 1, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL								
OCT 06	3.39	MAR 21	4.97	MAY 24	5.06	JUL 27	4.56	AUG 31	4.49



### **GROUND-WATER LEVELS**

### BUNCOMBE COUNTY—Continued

352810082383502. County number, BU-081; DENR Bent Creek Research Station MW-5I (Transition Zone well).

LOCATION.--Lat 35°28'11", long 82°38'35", Hydrologic Unit 06010105, 1.2 mi north of Blue Ridge Parkway, 3.1 mi west of Brevard Road in Bent Creek Research Forest. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Regolith (saprolitic Biotite Gneiss).

WELL CHARACTERISTICS.--Drilled observation well, depth 47 ft, diameter 4 in., cased to 32 ft, screened interval from 32 to 47 ft, sand filter packed from 28 to 47 ft.

INSTRUMENTATION .-- Measured periodically with steel tape.

DATUM.--Land-surface datum is 2,302.19 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.70 ft above land-surface datum.

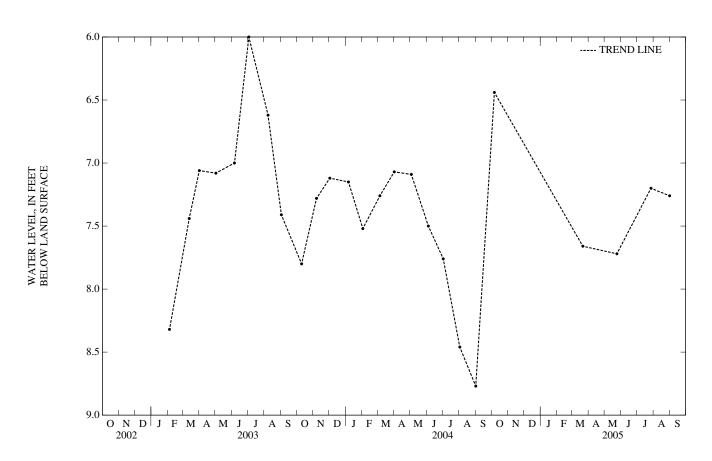
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD .-- February 2003 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.00 ft below land-surface datum, July 3, 2003; lowest water level measured, 8.77 ft below land-surface datum, Sept. 1, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

	WATER								
DATE	LEVEL								
OCT 06	6.44	MAR 21	7.66	MAY 24	7.72	JUL 27	7.20	AUG 31	7.26



352810082383503. County number, BU-082; DENR Bent Creek Research Station MW-5D (Bedrock well).

LOCATION.--Lat 35°28'10", long 82°38'35", Hydrologic Unit 06010105, 1.2 mi north of Blue Ridge Parkway, 3.1 mi west of Brevard Road in Bent Creek Research Forest. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Biotite Gneiss.

WELL CHARACTERISTICS.--Drilled observation well, depth 300 ft, diameter 6 in., cased to 62 ft, open hole from 62 to 300 ft.

INSTRUMENTATION.--Measured periodically with steel tape.

DATUM.--Land-surface datum is 2,304.84 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.58 ft above land-surface datum.

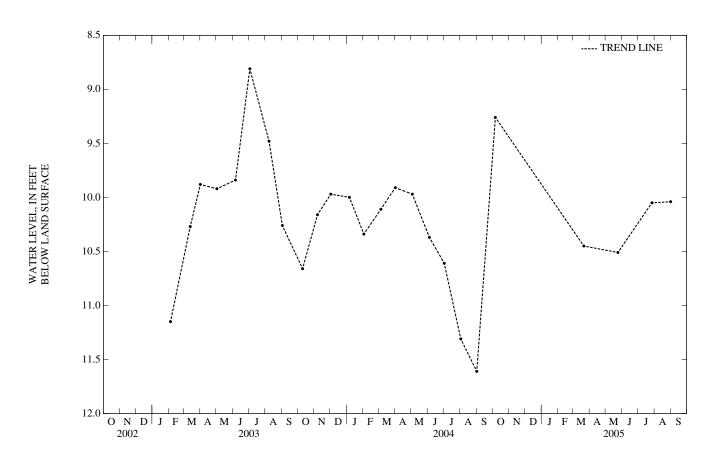
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--February 2003 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.81 ft below land-surface datum, July 3, 2003; lowest water level measured 11.61 ft below land-surface datum, Sept. 1, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

	WATER								
DATE	LEVEL								
OCT 06	9.26	MAR 21	10.45	MAY 24	10.51	JUL 27	10.05	AUG 31	10.04



352827082383901. County number, BU-083; DENR Bent Creek Research Station MW-7S (Regolith well).

LOCATION.—Lat 35°29'27", long 82°38'39", Hydrologic Unit 06010105, 1.2 mi north of Blue Ridge Parkway, 3.1 mi west of Brevard Road in Bent Creek Research Forest. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Regolith (saprolitic Biotite Gneiss).

WELL CHARACTERISTICS.--Drilled observation well, depth 25 ft, diameter 4 in., cased to 10 ft, screened interval from 10 to 25 ft, sand filter packed from 8 to 25 ft.

INSTRUMENTATION.--Water-level recorder collecting data at 60-minute intervals.

DATUM.--Land-surface datum is 2,368.23 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.96 ft above land-surface datum.

REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--February 2003 to current year. Continuous record began June 2005.

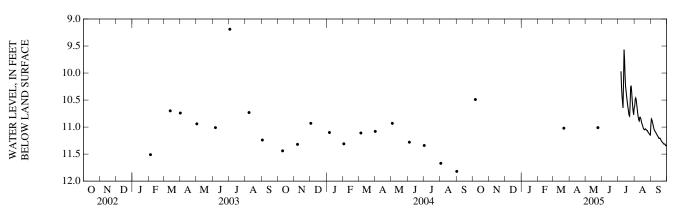
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.19 ft below land-surface datum, July 3, 2003, highest water level recorded, 9.19 ft below land-surface datum, June 29, 2005; lowest water level measured 11.82 ft below land-surface datum, Sept. 1, 2004.

## DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										9.64	10.51	10.87
2										10.0	10.59	10.91
3										10.27	10.68	10.95
4										10.44	10.76	11.00
5										10.56	10.83	11.04
6										10.66	10.88	11.07
7										10.20	10.90	11.08
8										9.60	10.83	11.10
9										9.78	10.83	11.11
10	10.49*									10.07	10.85	11.13
11										10.28	10.90	11.15
12										10.35	10.94	11.16
13										10.44	10.96	11.18
14										10.52	10.99	11.19
15										10.60	11.03	11.21
16										10.67	11.04	11.21
17										10.74	11.06	11.21
18										10.79	11.05	11.23
19										10.81	11.04	11.24
20										10.61	11.05	11.26
21						11.02*				10.28	11.06	11.28
22										10.26	11.07	11.28
23								11.01*		10.36	11.07	11.30
24										10.50	11.09	11.31
25										10.62	11.11	11.32
26										10.73	11.12	11.31
27										10.78	11.13	11.32
28										10.66	11.15	11.34
29										10.63	11.15	11.34
30									9.33	10.51	10.96	11.35
31										10.48	10.86	

WTR YR 2005 MEAN 10.83 HIGH 9.33 LOW 11.35

<sup>\*</sup>Periodic water-level measurements with electric tape.



352827082383902. County number, BU-084; DENR Bent Creek Research Station MW-7I (Transition Zone well).

LOCATION.--Lat 35°28'27", long 82°38'39", Hydrologic Unit 06010105, 1.2 mi north of Blue Ridge Parkway, 3.1 mi west of Brevard Road in Bent Creek Research Forest. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Regolith (saprolitic Biotite Gneiss).

WELL CHARACTERISTICS.--Drilled observation well, depth 50 ft, diameter 4 in., cased to 30 ft, screened interval from 30 to 50 ft, sand filter packed from 27 to 45 ft, natural fill from 45 to 50 ft.

INSTRUMENTATION .-- Measured periodically with steel tape.

DATUM.--Land-surface datum is 2,369.04 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.91 ft above land-surface datum.

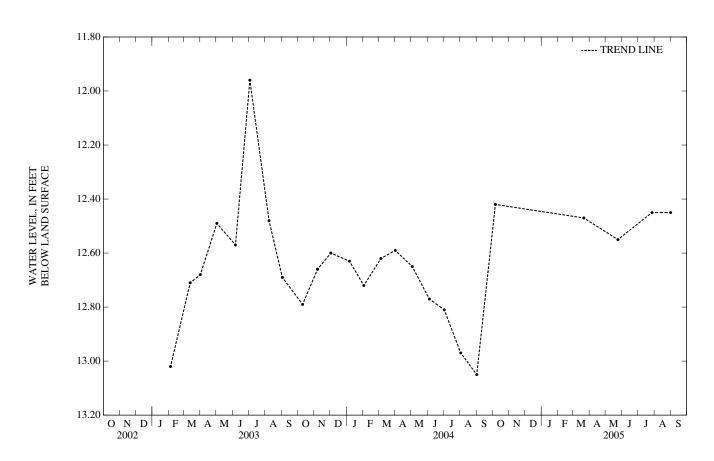
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD .-- February 2003 to current year.

 $EXTREMES\ FOR\ PERIOD\ OF\ RECORD. --Highest\ water\ level\ measured,\ 11.96\ ft\ below\ land-surface\ datum,\ July\ 3\ ,\ 2003;\ lowest\ water\ level\ measured,\ 13.05\ ft\ below\ land-surface\ datum,\ Sept.\ 1,\ 2004.$ 

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

	WATER									
DATE	LEVEL									
OCT 06	12.42	MAR 21	12.47	MAY 24	12.55	JUL 27	12.45	AUG 31	12.45	



352827082383903. County number, BU-085; DENR Bent Creek Research Station MW-7D (Bedrock well).

LOCATION.—Lat 35°29'27", long 82°38'39", Hydrologic Unit 06010105, 1.2 mi north of Blue Ridge Parkway, 3.1 mi west of Brevard Road in Bent Creek Research Forest. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Biotite Gneiss.

WELL CHARACTERISTICS.--Drilled observation well, depth 285 ft, diameter 6 in., cased to 62 ft, open hole from 62 to 285 ft.

INSTRUMENTATION .-- Water-level recorder collecting data at 60-minute intervals.

DATUM.--Land-surface datum is 2,369.88 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.93 ft above land-surface datum.

REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--February 2003 to current year. Continuous record began July 2005.

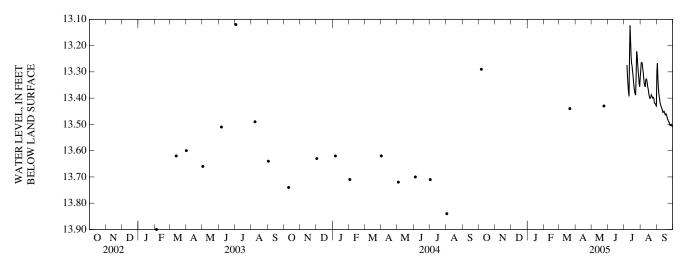
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 13.11 ft below land-surface datum, July 8, 2005; lowest water level measured 13.90 ft below land-surface datum, Feb. 4, 2003.

## DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1											13.27	13.33
2										13.27	13.29	13.36
3										13.32	13.30	13.38
4										13.35	13.32	13.40
5										13.38	13.34	13.41
6	13.29*									13.39	13.35	13.42
7										13.24	13.36	13.43
8										13.12	13.33	13.43
9										13.18	13.33	13.44
10										13.24	13.33	13.45
11										13.27	13.34	13.45
12										13.28	13.36	13.45
13										13.20	13.37	13.45
14										13.30	13.38	13.45
15										13.34	13.36	13.45
13										13.34	13.39	13.40
16										13.36	13.40	13.46
17										13.37	13.40	13.46
18										13.38	13.40	13.46
19										13.39	13.39	13.47
20										13.32	13.39	13.48
21						13.44*				13.22	13.40	13.48
22										13.24	13.40	13.49
23										13.27	13.40	13.49
24								13.43*		13.30	13.40	13.50
25										13.32	13.42	13.50
23										13.32	13.12	13.50
26										13.35	13.42	13.50
27										13.36	13.42	13.50
28										13.32	13.43	13.50
29										13.30	13.43	13.51
30										13.27	13.30	13.51
31										13.26	13.27	

WTR YR 2005 MEAN 13.37 HIGH 13.12 LOW 13.51

<sup>\*</sup>Periodic water-level measurements with electric tape.



352909082382801. County number, BU-086; DENR Bent Creek Research Station PZ-1S.

LOCATION.--Lat 35°29'09", long 82°38'28", Hydrologic Unit 06010105, 1.2 mi north of Blue Ridge Parkway, 3.1 mi west of Brevard Road in Bent Creek Research Forest. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Regolith (saprolitic Biotite Gneiss).

WELL CHARACTERISTICS.--Drilled observation well, depth 17 ft, diameter 2 in., cased to 12 ft, screened interval from 12 to 17 ft.

INSTRUMENTATION .-- Measured periodically with steel tape.

DATUM.--Land-surface datum is 2,260.35 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.86 ft above land-surface datum.

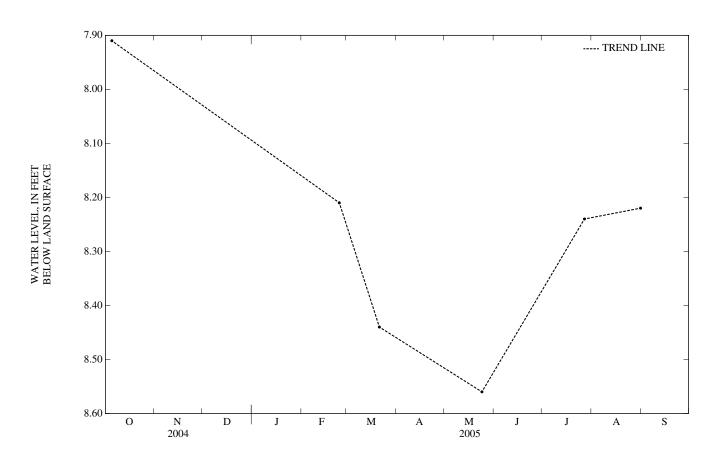
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--October 2004 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.91 ft below land-surface datum, Oct. 5, 2004; lowest water level measured, 8.56 ft below land-surface datum, May 24, 2005.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

	WATER										
DATE	LEVEL										
OCT 05	7.91	FEB 24	8.21	MAR 21	8.44	MAY 24	8.56	JUL 27	8.24	AUG 31	8.22



### **GROUND-WATER LEVELS**

### BUNCOMBE COUNTY—Continued

352909082382802. County number, BU-087; DENR Bent Creek Research Station PZ-1I.

LOCATION.--Lat 35°29'09", long 82°38'28", Hydrologic Unit 06010105, 1.2 mi north of Blue Ridge Parkway, 3.1 mi west of Brevard Road in Bent Creek Research Forest. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Regolith (saprolitic Biotite Gneiss).

WELL CHARACTERISTICS.--Drilled observation well, depth 30 ft, diameter 2 in., cased to 25 ft, screened interval from 25 to 30 ft.

INSTRUMENTATION .-- Measured periodically with steel tape.

DATUM.--Land-surface datum is 2,260.02 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.81 ft above land-surface datum.

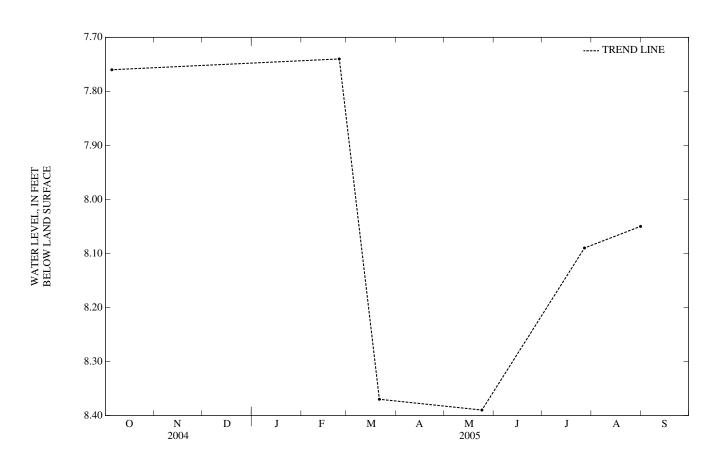
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD .-- October 2004 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.74 ft below land-surface datum, Feb. 24, 2005; lowest water level measured, 8.39 ft below land-surface datum, May 24, 2005.

#### WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL											
OCT 05	7.76	FER 24	7.74	MAR 21	8 37	MAY 24	8 30	JUL 27	8.09	AUG 31	8.05	



352907082382501. County number, BU-088; DENR Bent Creek Research Station PZ-2S.

LOCATION.--Lat 35°29'07", long 82°38'25", Hydrologic Unit 06010105, 1.2 mi north of Blue Ridge Parkway, 3.1 mi west of Brevard Road in Bent Creek Research Forest. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Regolith (saprolitic Biotite Gneiss).

WELL CHARACTERISTICS.--Drilled observation well, depth 22 ft, diameter 2 in., cased to 17 ft, screened interval from 17 to 22 ft.

INSTRUMENTATION .-- Measured periodically with steel tape.

DATUM.--Land-surface datum is 2,252.11 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.90 ft above land-surface datum.

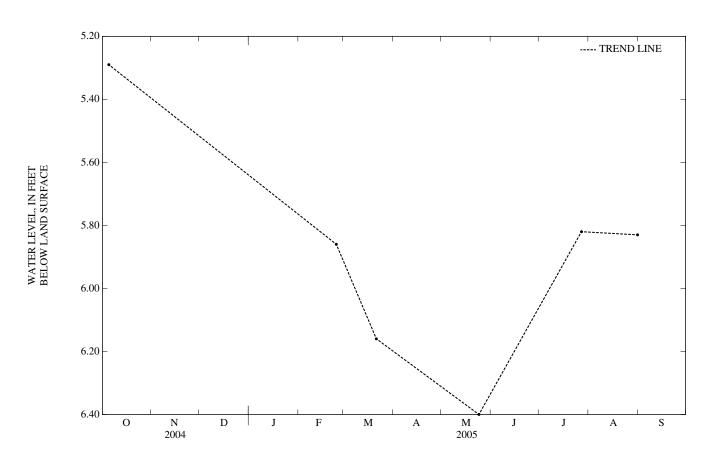
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--October 2004 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.29 ft below land-surface datum, Oct. 5, 2004; lowest water level measured, 6.40 ft below land-surface datum, May 24, 2005.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

	WATER										
DATE	LEVEL										
OCT 05	5.29	FEB 24	5.86	MAR 21	6.16	MAY 24	6.40	JUL 27	5.82	AUG 31	5.83



352907082382502. County number, BU-089; DENR Bent Creek Research Station PZ-2I.

LOCATION.--Lat 35°29'07", long 82°38'25", Hydrologic Unit 06010105, 1.2 mi north of Blue Ridge Parkway, 3.1 mi west of Brevard Road in Bent Creek Research Forest. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Regolith (saprolitic Biotite Gneiss).

WELL CHARACTERISTICS.--Drilled observation well, depth 59 ft, diameter 2 in., cased to 54 ft, screened interval from 54 to 59 ft.

INSTRUMENTATION .-- Measured periodically with steel tape.

DATUM.--Land-surface datum is 2,251.85 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 3.10 ft above land-surface datum.

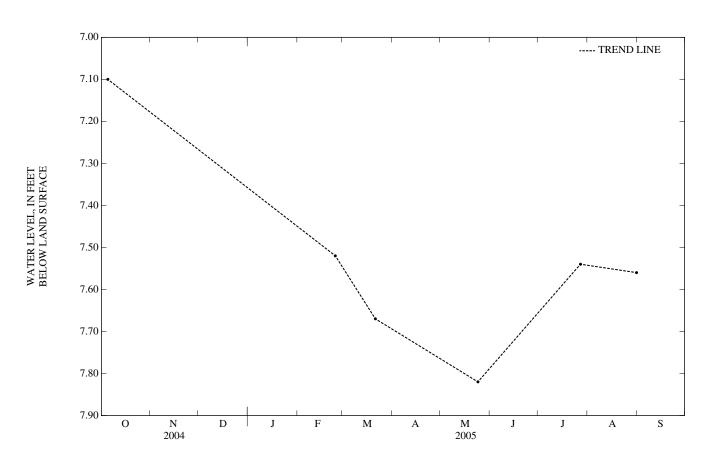
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD .-- October 2004 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.10 ft below land-surface datum, Oct. 5, 2004; lowest water level measured, 7.82 ft below land-surface datum, May 24, 2005.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

	WATER										
DATE	LEVEL										
OCT 05	7.10	FEB 24	7.52	MAR 21	7.67	MAY 24	7.82	JUL 27	7.54	AUG 31	7.56



352907082382401. County number, BU-090; DENR Bent Creek Research Station PZ-3S.

LOCATION.--Lat 35°29'07", long 82°38'24", Hydrologic Unit 06010105, 1.2 mi north of Blue Ridge Parkway, 3.1 mi west of Brevard Road in Bent Creek Research Forest. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Regolith (saprolitic Biotite Gneiss).

WELL CHARACTERISTICS.--Drilled observation well, depth 22 ft, diameter 2 in., cased to 17 ft, screened interval from 17 to 22 ft.

INSTRUMENTATION .-- Measured periodically with steel tape.

DATUM.--Land-surface datum is 2,251.40 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.88 ft above land-surface datum.

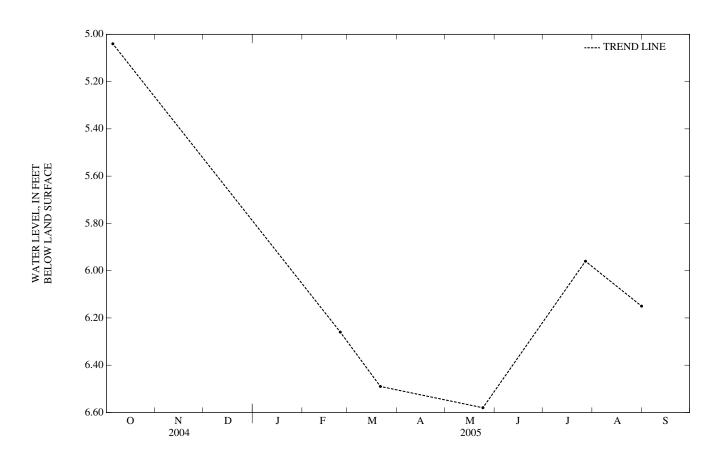
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--October 2004 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.04 ft below land-surface datum, Oct. 5, 2004; lowest water level measured, 6.58 ft below land-surface datum, May 24, 2005.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

	WATER WATER				WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
OCT 05	5.04	FEB 24	6.26	MAR 21	6.49	MAY 24	6.58	JUL 27	5.96	AUG 31	6.15



### BUNCOMBE COUNTY—Continued

352904082382001. County number, BU-091; DENR Bent Creek Research Station PZ-4S.

LOCATION.--Lat 35°29'04", long 82°38'20", Hydrologic Unit 06010105, 1.2 mi north of Blue Ridge Parkway, 3.1 mi west of Brevard Road in Bent Creek Research Forest. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Regolith (saprolitic Biotite Gneiss).

WELL CHARACTERISTICS.--Drilled observation well, depth 17 ft, diameter 2 in., cased to 12 ft, screened interval from 12 to 17 ft.

INSTRUMENTATION .-- Measured periodically with steel tape.

DATUM.--Land-surface datum is 2,232.28 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.99 ft above land-surface datum.

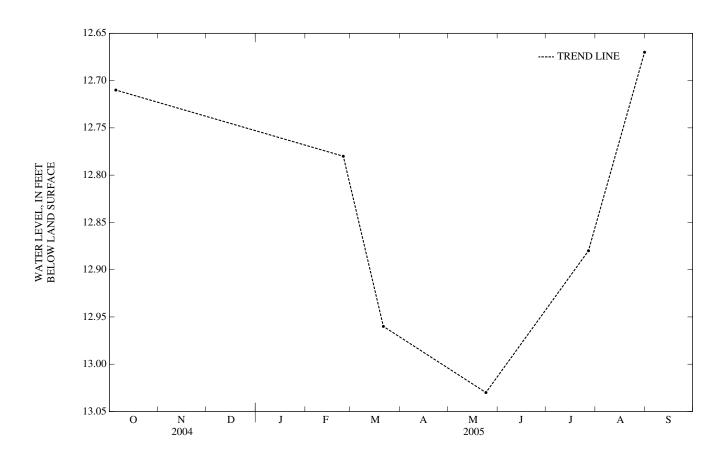
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD .-- October 2004 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.67 ft below land-surface datum, Aug. 31, 2005; lowest water level measured, 13.03 ft below land-surface datum, May 24, 2005.

#### WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

	WATER		WATER		WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
OCT 05	12.71	FFR 24	12.78	MAR 21	12 96	MAY 24	13.03	ПП 27	12.88	AUG 31	12 67



### BUNCOMBE COUNTY—Continued

352904082382002. County number, BU-092; DENR Bent Creek Research Station PZ-4I.

LOCATION.--Lat 35°29'04", long 82°38'20", Hydrologic Unit 06010105, 1.2 mi north of Blue Ridge Parkway, 3.1 mi west of Brevard Road in Bent Creek Research Forest. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Regolith (saprolitic Biotite Gneiss).

WELL CHARACTERISTICS.--Drilled observation well, depth 30 ft, diameter 2 in., cased to 25 ft, screened interval from 25 to 30 ft.

INSTRUMENTATION.--Measured periodically with steel tape.

DATUM.--Land-surface datum is 2,231.88 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.90 ft above land-surface datum.

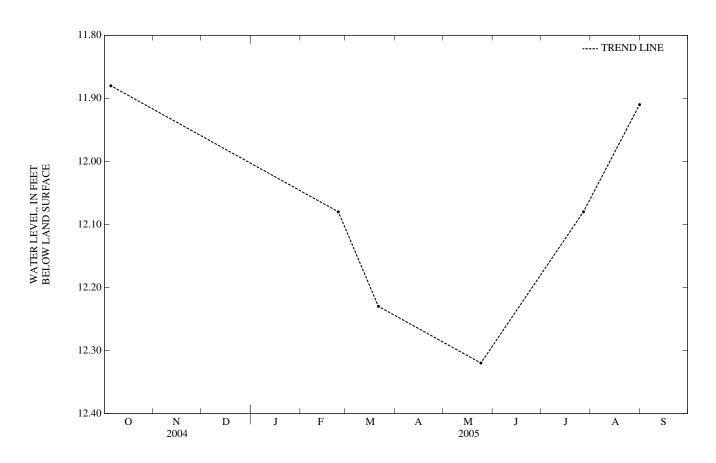
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--October 2004 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.67 ft below land-surface datum, Aug. 31, 2005; lowest water level measured, 13.03 ft below land-surface datum, May 24, 2005.

#### WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

	WATER										
DATE	LEVEL										
OCT 05	11.88	FEB 24	12.08	MAR 21	12.23	MAY 24	12.32	JUL 27	12.08	AUG 31	11.91



352908082382701. County number, BU-093; DENR Bent Creek Research Station PZ-5S.

LOCATION.--Lat 35°29'08", long 82°38'27", Hydrologic Unit 06010105, 1.2 mi north of Blue Ridge Parkway, 3.1 mi west of Brevard Road in Bent Creek Research Forest. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Regolith (saprolitic Biotite Gneiss).

WELL CHARACTERISTICS.--Drilled observation well, depth 17 ft, diameter 2 in., cased to 12 ft, screened interval from 12 to 17 ft.

INSTRUMENTATION .-- Measured periodically with steel tape.

DATUM.--Land-surface datum is 2,257.14 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.72 ft above land-surface datum.

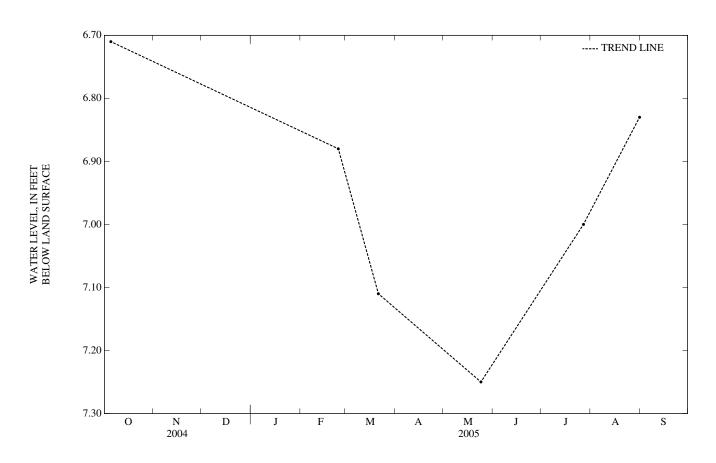
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--October 2004 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.71 ft below land-surface datum, Oct. 5, 2004; lowest water level measured, 7.25 ft below land-surface datum, May 24, 2005.

#### WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

	WATER										
DATE	LEVEL										
OCT 05	6.71	FEB 24	6.88	MAR 21	7.11	MAY 24	7.25	JUL 27	7.00	AUG 31	6.83



352908082382702. County number, BU-094; DENR Bent Creek Research Station PZ-5I.

LOCATION.--Lat 35°29'08", long 82°38'27", Hydrologic Unit 06010105, 1.2 mi north of Blue Ridge Parkway, 3.1 mi west of Brevard Road in Bent Creek Research Forest. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Regolith (saprolitic Biotite Gneiss).

WELL CHARACTERISTICS.--Drilled observation well, depth 29 ft, diameter 2 in., cased to 24 ft, screened interval from 24 to 29 ft.

INSTRUMENTATION .-- Measured periodically with steel tape.

DATUM.--Land-surface datum is 2,256.57 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.68 ft above land-surface datum.

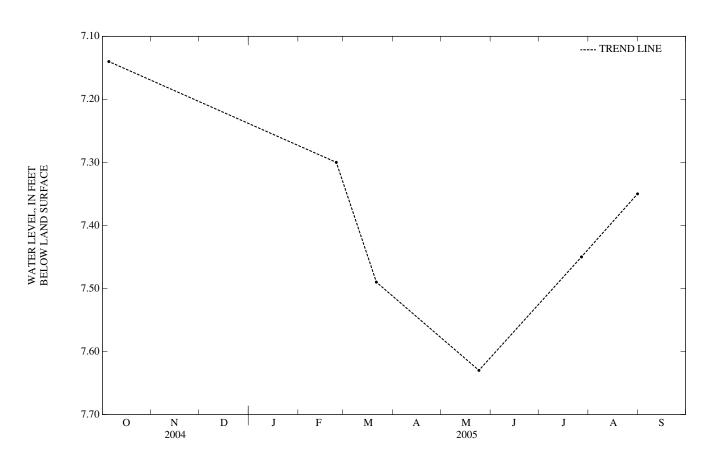
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--October 2004 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.14 ft below land-surface datum, Oct. 5, 2004; lowest water level measured, 7.63 ft below land-surface datum, May 24, 2005.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

D + 777	WATER	D	WATER	D . TT	WATER	D 4 777	WATER	D	WATER	D + 1777	WATER	
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	
OCT 05	7.14	FEB 24	7.30	MAR 21	7.49	MAY 24	7.63	JUL 27	7.45	AUG 31	7.35	



352909082382701. County number, BU-095; DENR Bent Creek Research Station PZ-6S.

LOCATION.--Lat 35°29'09", long 82°38'27", Hydrologic Unit 06010105, 1.2 mi north of Blue Ridge Parkway, 3.1 mi west of Brevard Road in Bent Creek Research Forest. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Regolith (saprolitic Biotite Gneiss).

WELL CHARACTERISTICS.--Drilled observation well, depth 22 ft, diameter 2 in., cased to 17 ft, screened interval from 17 to 22 ft.

INSTRUMENTATION .-- Measured periodically with steel tape.

DATUM.--Land-surface datum is 2,257.86 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 3.10 ft above land-surface datum.

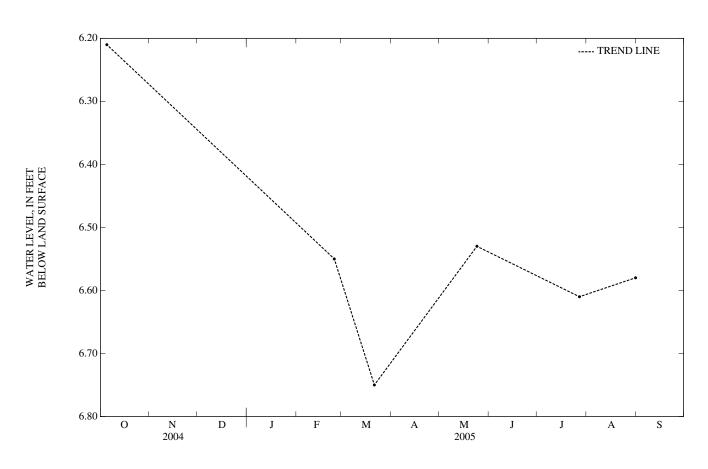
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD .-- October 2004 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.21 ft below land-surface datum, Oct. 5, 2004; lowest water level measured, 6.75 ft below land-surface datum, Mar. 21, 2005.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

	WATER										
DATE	LEVEL										
OCT 05	6.21	FEB 24	6.55	MAR 21	6.75	MAY 24	6.53	JUL 27	6.61	AUG 31	6.58



352909082382702. County number, BU-096; DENR Bent Creek Research Station PZ-6I.

LOCATION.--Lat 35°29'09", long 82°38'27", Hydrologic Unit 06010105, 1.2 mi north of Blue Ridge Parkway, 3.1 mi west of Brevard Road in Bent Creek Research Forest. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Regolith (saprolitic Biotite Gneiss).

WELL CHARACTERISTICS.--Drilled observation well, depth 34 ft, diameter 2 in., cased to 29 ft, screened interval from 29 to 34 ft.

INSTRUMENTATION .-- Measured periodically with steel tape.

DATUM.--Land-surface datum is 2,257.69 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.90 ft above land-surface datum.

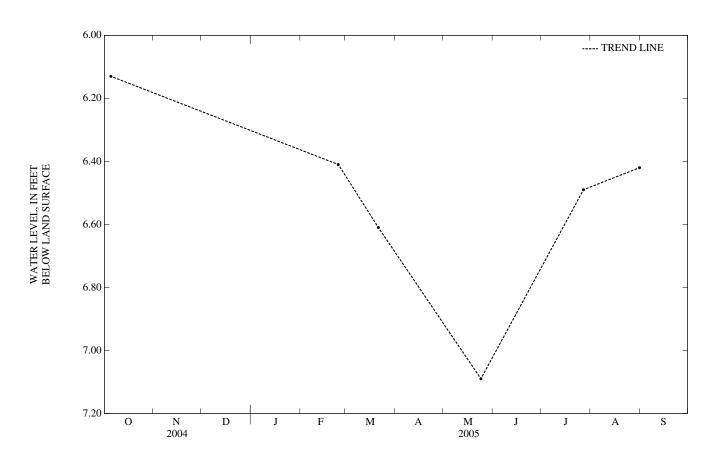
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--October 2004 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.13 ft below land-surface datum, Oct. 5, 2004; lowest water level measured, 7.09 ft below land-surface datum, May 24, 2005.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

	WATER										
DATE	LEVEL										
OCT 05	6.13	FEB 24	6.41	MAR 21	6.61	MAY 24	7.09	JUL 27	6.49	AUG 31	6.42



352911082383101. County number, BU-097; DENR Bent Creek Research Station PZ-7S.

LOCATION.--Lat 35°29'11", long 82°38'31", Hydrologic Unit 06010105, 1.2 mi north of Blue Ridge Parkway, 3.1 mi west of Brevard Road in Bent Creek Research Forest. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Regolith (saprolitic Biotite Gneiss).

WELL CHARACTERISTICS.--Drilled observation well, depth 13.5 ft, diameter 2 in., cased to 8 ft, screened interval from 8 to 13.5 ft.

INSTRUMENTATION .-- Measured periodically with steel tape.

DATUM.--Land-surface datum is 2,271.29 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.97 ft above land-surface datum.

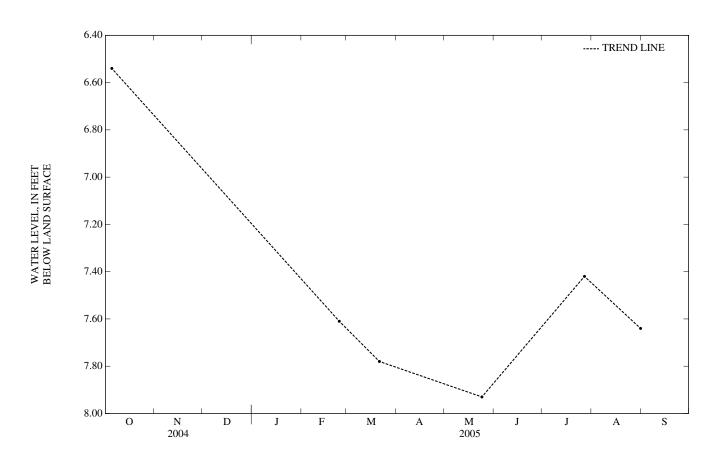
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD .-- October 2004 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.54 ft below land-surface datum, Oct. 5, 2004; lowest water level measured, 7.93 ft below land-surface datum, May 24, 2005.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

	WATER										
DATE	LEVEL										
OCT 05	6.54	FEB 24	7.61	MAR 21	7.78	MAY 24	7.93	JUL 27	7.42	AUG 31	7.64



352911082383102. County number, BU-098; DENR Bent Creek Research Station PZ-7I.

LOCATION.--Lat 35°29'11", long 82°38'31", Hydrologic Unit 06010105, 1.2 mi north of Blue Ridge Parkway, 3.1 mi west of Brevard Road in Bent Creek Research Forest. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Regolith (saprolitic Biotite Gneiss).

WELL CHARACTERISTICS.--Drilled observation well, depth 25 ft, diameter 2 in., cased to 20 ft, screened interval from 20 to 25 ft.

INSTRUMENTATION .-- Measured periodically with steel tape.

DATUM.--Land-surface datum is 2,273.26 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.80 ft above land-surface datum.

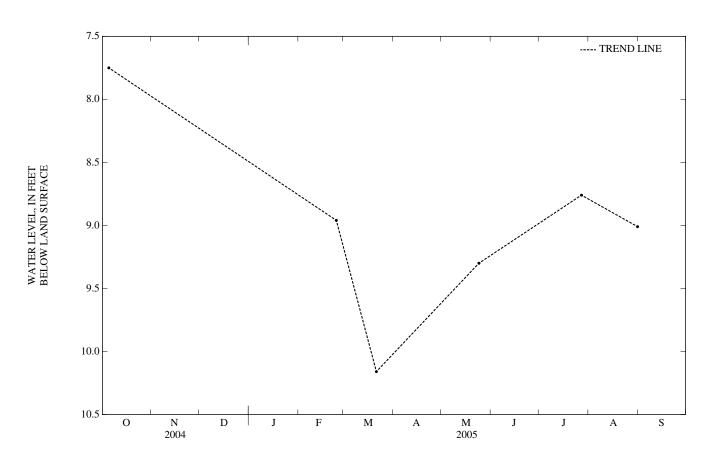
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD .-- October 2004 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.75 ft below land-surface datum, Oct. 5, 2004; lowest water level measured, 10.16 ft below land-surface datum, Mar. 21, 2005.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

	WATER										
DATE	LEVEL										
OCT 05	7.75	FEB 24	8.96	MAR 21	10.16	MAY 24	9.30	JUL 27	8.76	AUG 31	9.01



### BUNCOMBE COUNTY—Continued

352912082382601. County number, BU-099; DENR Bent Creek Research Station PZ-8S.

LOCATION.--Lat 35°29'12", long 82°38'26", Hydrologic Unit 06010105, 1.2 mi north of Blue Ridge Parkway, 3.1 mi west of Brevard Road in Bent Creek Research Forest. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Regolith (saprolitic Biotite Gneiss).

WELL CHARACTERISTICS.--Drilled observation well, depth 20 ft, diameter 2 in., cased to 15 ft, screened interval from 15 to 20 ft.

INSTRUMENTATION .-- Measured periodically with steel tape.

DATUM.--Land-surface datum is 2,256.74 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.95 ft above land-surface datum.

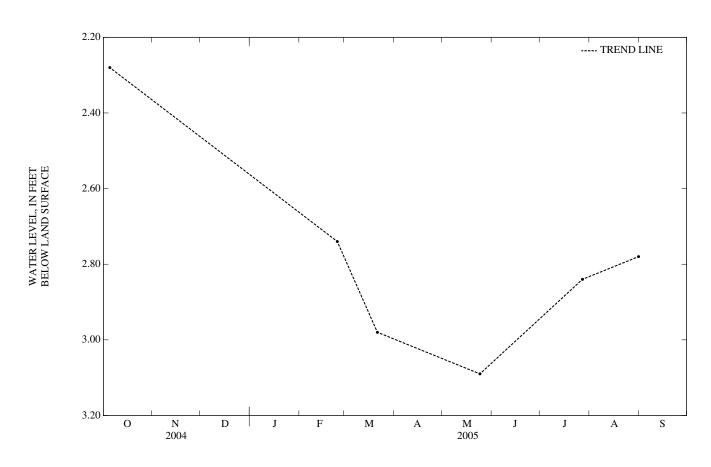
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD .-- October 2004 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.28 ft below land-surface datum, Oct. 5, 2004; lowest water level measured, 3.09 ft below land-surface datum, May 24, 2005.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

	WATER										
DATE	LEVEL										
OCT 05	2.28	FEB 24	2.74	MAR 21	2.98	MAY 24	3.09	JUL 27	2.84	AUG 31	2.78



### BUNCOMBE COUNTY—Continued

352912082382602. County number, BU-100; DENR Bent Creek Research Station PZ-8I.

LOCATION.--Lat 35°29'12", long 82°38'26", Hydrologic Unit 06010105, 1.2 mi north of Blue Ridge Parkway, 3.1 mi west of Brevard Road in Bent Creek Research Forest. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Regolith (saprolitic Biotite Gneiss).

WELL CHARACTERISTICS.--Drilled observation well, depth 34 ft, diameter 2 in., cased to 29 ft, screened interval from 29 to 34 ft.

INSTRUMENTATION .-- Measured periodically with steel tape.

DATUM.--Land-surface datum is 2,256.74 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.95 ft above land-surface datum.

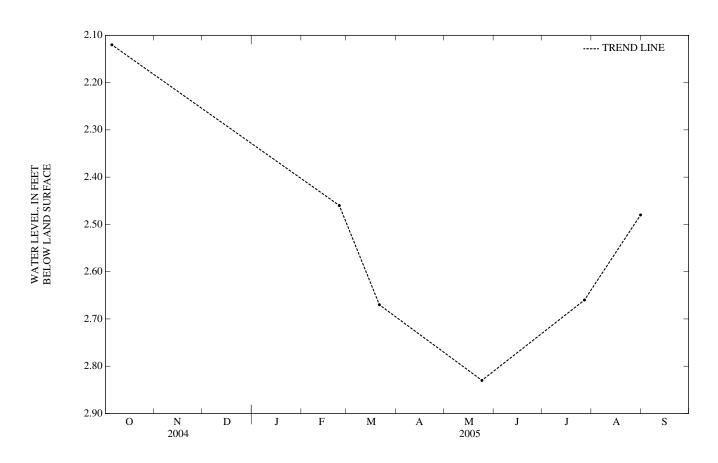
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--October 2004 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.12 ft below land-surface datum, Oct. 5, 2004; lowest water level measured, 2.83 ft below land-surface datum, May 24, 2005.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

	WATER										
DATE	LEVEL										
OCT 05	2.12	FEB 24	2.46	MAR 21	2.67	MAY 24	2.83	JUL 27	2.66	AUG 31	2.48



#### CAMDEN COUNTY

362527076163301. County number, CA-087; LU-03.

LOCATION.--Lat 36°25'27", long 76°16'33", Hydrologic Unit 03020105, 3 mi south of South Mills, on farm road, 1 mi north of North Carolina State Highway 343.

#### WATER-LEVEL RECORDS

AQUIFER .-- Surficial.

 $WELL\ CHARACTERISTICS. -- Drilled\ observation\ well,\ depth\ 10\ ft,\ diameter\ 2\ in.,\ screened\ interval\ from\ 7\ to\ 10\ ft.$ 

INSTRUMENTATION .-- Water-level recorder collecting data at 60-minute intervals.

DATUM.--Land-surface datum is 13 ft above NGVD of 1929. Measuring point: Top of casing, 2.58 ft above land-surface datum.

REMARKS.--Well is part of National Water Quality Assessment Program (NAWQA).

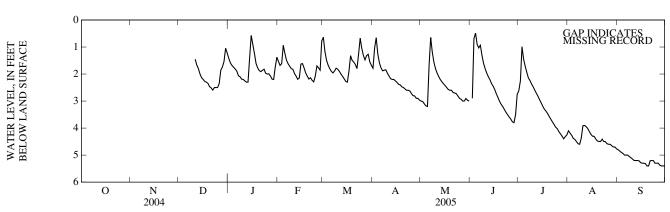
PERIOD OF RECORD.--December 2004 to September 2005.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, .1 ft below land-surface datum, June 3, 2005; lowest water level recorded, 5.5 ft below land-surface datum, Sept. 30, 2005.

# DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	  	   	   	1.4 1.6 1.7 1.7	1.5 1.7 1.6 0.9 1.2	0.6 1.2 1.5 1.7 1.8	1.8 1.0 0.7 1.3 1.6	3.0 3.0 3.1 3.2 3.2	2.9 0.7 0.5 0.9	2.6 2.3 1.0 1.4 1.7	4.1 4.2 4.3 4.4 4.4	4.8 4.9 4.9 4.9 5.0
6 7 8 9 10	  	   	   	1.9 2.1 2.1 2.2 2.2	1.5 1.6 1.7 1.8 1.8	1.9 2.0 1.9 1.8 1.8	1.8 1.9 1.9 1.8 2.0	1.7 0.6 1.2 1.6 1.8	1.0 0.9 1.3 1.6 1.8	1.9 2.1 2.2 2.4 2.5	4.5 4.6 4.6 4.4 3.9	5.0 5.0 5.1 5.1 5.1
11 12 13 14 15	   	   	1.4 1.7 1.8 2.0 2.1	2.3 2.3 2.3 1.4 0.6	2.0 2.1 2.2 2.1 1.6	1.9 2.0 2.1 2.2 2.3	2.1 2.2 2.2 2.2 2.3	2.0 2.1 2.2 2.3 2.4	2.0 2.1 2.2 2.4 2.5	2.6 2.7 2.8 3.0 3.1	3.9 3.9 4.0 4.1 4.2	5.2 5.2 5.2 5.2 5.3
16 17 18 19 20	  	   	2.2 2.3 2.3 2.3 2.5	0.9 1.2 1.6 1.8 1.9	1.6 1.8 2.0 2.1 2.2	2.3 1.9 1.3 1.5 1.6	2.3 2.4 2.4 2.5 2.5	2.4 2.5 2.6 2.6 2.6	2.6 2.7 2.9 3.0 3.1	3.2 3.3 3.4 3.5 3.6	4.3 4.3 4.4 4.5 4.5	5.3 5.3 5.3 5.4 5.4
21 22 23 24 25	  	   	2.5 2.6 2.5 2.5 2.5	1.9 1.9 1.8 2.0 2.0	2.1 2.2 2.3 2.1 1.7	1.6 1.8 1.3 0.7 1.1	2.6 2.6 2.6 2.6 2.7	2.7 2.7 2.7 2.8 2.9	3.2 3.3 3.4 3.5 3.6	3.7 3.8 3.9 4.0 4.0	4.5 4.4 4.5 4.5 4.6	5.2 5.2 5.2 5.3 5.3
26 27 28 29 30 31	   	   	2.4 1.9 1.7 1.5 1.0 1.2	2.0 2.1 2.2 2.2 1.7 1.4	1.8 1.9 0.8 	1.3 1.5 1.3 1.3 1.6 1.7	2.8 2.8 2.9 2.9 3.0	2.9 3.0 3.0 2.9 3.0 3.0	3.7 3.8 3.8 3.5 2.7	4.1 4.2 4.3 4.4 4.3 4.3	4.6 4.6 4.7 4.7 4.7 4.8	5.3 5.4 5.4 5.4 5.4

WTR YR 2005 MEAN 2.7 HIGH 0.5 LOW 5.4



# CAMDEN COUNTY--Continued

# 362527076163301. County number, CA-087; LU-03.

# WATER-QUALITY RECORDS

PERIOD OF RECORD.--1994, 2001, 2002, October 2004 to September 2005.

REMARKS.--Well is part of National Water Quality Assessment (NAWQA) Program.

# WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Depth of well, feet below LSD (72008)	Depth to water level, feet below LSD (72019)	Alti- tude of land surface feet (72000)	Water level, depth below MP, feet (61055)	Flow rate, instantaneous gal/min (00059)	Turbdty white light, det ang 90+/-30 corretd NTRU (63676)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)
DEC 10	0900	10.0	2.02	13	4.60	.10		751	.3	4	6.5	450	16.0
MAR 07	1545	10.0	1.95	13	4.53	1.0	110	752	.1	1	6.1	448	13.1
JUN 01	1530	10.0	3.09	13	5.67	.10	5.0	764	.1	1	6.1	480	14.9
AUG 29	1530	10.0	4.69	13	7.27	.30	6.9	758	.1	2	6.0	449	22.6
Date	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium adsorp- tion ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alka- linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)
DEC 10		6.82	7.78	1.45	4	58.5	27	33	.06	76.8	.1	38.9	14.4
MAR 07	49	7.20	7.65	1.31	4	57.7	69	84	.22	83.1	.1	36.4	22.1
JUN 01	47	6.96	7.17	1.45	4	61.8	72	88	.13	83.8	<.5	38.4	22.0
AUG 29	45	6.77	6.71	1.63	4	57.4	66	81	1.86	83.5	.1	40.2	23.5
Date	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Total nitro- gen, wat flt by anal ysis, mg/L (62854)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	1-Naph- thol, water, fltrd 0.7u GF ug/L (49295)	2,6-Diethylaniline water fltrd 0.7u GF ug/L (82660)	2Chloro -2',6-' diethyl acet- anilide wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)	2-Ethyl -6- methyl- aniline water, fltrd, ug/L (61620)	3,4-Di- chloro- aniline water fltrd, ug/L (61625)	3,5-Di- chloro- aniline water, fltrd, ug/L (61627)
DEC 10	266	.09	<.06	.015	.22	.042	<.09	<.006	<.005	<.006	<.004	<.004	
MAR 07	259	.09	<.06	E.006	.22	.087	<.09	<.006	<.005	<.006	<.004	<.004	
JUN 01	276	.09	<.06	.017	.22	<.006	<.09	<.006	<.005	<.006	<.004	<.004	<.004
AUG 29	282	.10	<.06	.010	.23	.061	<.09	<.006	<.005	<.006	<.004	<.004	<.004
Date	4Chloro 2methyl phenol, water, fltrd, ug/L (61633)	Aceto- chlor, water, fltrd, ug/L (49260)	Ala- chlor, water, fltrd, ug/L (46342)	alpha- Endo- sulfan, water, fltrd, ug/L (34362)	Atra- zine, water, fltrd, ug/L (39632)	Azin-phos-methyl oxon, water, fltrd, ug/L (61635)	Azin-phos-methyl, water, fltrd 0.7u GF ug/L (82686)	Ben- flur- alin, water, fltrd 0.7u GF ug/L (82673)	Carbaryl, water, fltrd 0.7u GF ug/L (82680)	Carbo- furan, water, fltrd 0.7u GF ug/L (82674)	Chlor- pyrifos oxon, water, fltrd, ug/L (61636)	Chlor- pyrifos water, fltrd, ug/L (38933)	cis- Per- methrin water fltrd 0.7u GF ug/L (82687)
DEC 10	<.006	<.006	<.005		<.007	<.07	<.050	<.010	<.041		<.06	<.005	<.006
MAR 07	<.006	<.006	<.005		<.007	<.07	<.050	<.010	<.041		<.06	<.005	<.006
JUN 01	<.006	<.006	<.005	<.005	<.007	<.07	<.050	<.010	<.041	<.020	<.06	<.005	<.006
AUG 29	<.006	<.006	<.005	<.005	<.007	<.07	<.050	<.010	<.041	<.020	<.06	<.005	<.006

# CAMDEN COUNTY--Continued

# 362527076163301. County number, CA-087; LU-03.—Continued

# WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	cis- Propi- cona- zole, water, fltrd, ug/L (79846)	Cyana- zine, water, fltrd, ug/L (04041)	Cyflu- thrin, water, fltrd, ug/L (61585)	lambda- Cyhalo- thrin, water, fltrd, ug/L (61595)	Cyper- methrin water, fltrd, ug/L (61586)	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170)	Diazinon oxon, water, fltrd, ug/L (61638)	Diazinon, water, fltrd, ug/L (39572)	Dicrotophos, water fltrd, ug/L (38454)	Dieldrin, water, fltrd, ug/L (39381)	Dimethoate, water, fltrd 0.7u GF ug/L (82662)	Disulf- oton sulfone water, fltrd, ug/L (61640)
DEC 10			<.008		<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.006	
MAR 07			<.027		<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.006	
JUN 01	<.016	<.018	<.027	<.009	<.016	<.003	<.012		<.005	<.08	<.009	<.006	<.01
AUG 29	<.008	<.018	<.027	<.009	<.009	<.003	<.012		<.005	<.08	<.009	<.006	<.01
27	<b>4.000</b>	4.010	1.027	4.005	4.007	1.005	1.012		4.005	ν.σσ	4.00)	4.000	1
Date	Disulfoton, water, fltrd 0.7u GF ug/L (82677)	Endo- sulfan sulfate water, fltrd, ug/L (61590)	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethion monoxon water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)	Etho- prop, water, fltrd 0.7u GF ug/L (82672)	Fenamiphos sulfone water, fltrd, ug/L (61645)	Fenami- phos sulf- oxide, water, fltrd, ug/L (61646)	Fenamiphos, water, fltrd, ug/L (61591)	Desulf- inyl- fipro- nil amide, wat flt ug/L (62169)	Fipro- nil sulfide water, fltrd, ug/L (62167)	Fipro- nil sulfone water, fltrd, ug/L (62168)	Fipronil, water, fltrd, ug/L (62166)
DEC 10				<.0020	<.004		<.049		<.03	<.029	<.013	<.024	<.016
MAR 07				<.0020	<.004		<.049	<.04	<.03	<.029	<.013	<.024	<.016
JUN 01	<.02	<.014	<.004	<.002	<.004	<.005	<.049	<.04	<.03	<.029	<.013	<.024	<.016
AUG 29	<.02	<.014	<.004	<.002	<.004	<.005	<.049	<.04	<.03	<.029	<.013	<.024	<.016
Date	Fonofos oxon, water, fltrd, ug/L (61649)	Fonofos water, fltrd, ug/L (04095)	Hexa- zinone, water, fltrd, ug/L (04025)	Ipro- dione, water, fltrd, ug/L (61593)	Isofen- phos, water, fltrd, ug/L (61594)	Mala- oxon, water, fltrd, ug/L (61652)	Mala- thion, water, fltrd, ug/L (39532)	Meta- laxyl, water, fltrd, ug/L (61596)	Methi- althion water, fltrd, ug/L (61598)	Methyl para- oxon, water, fltrd, ug/L (61664)	Methyl para- thion, water, fltrd 0.7u GF ug/L (82667)	Metola- chlor, water, fltrd, ug/L (39415)	Metri- buzin, water, fltrd, ug/L (82630)
DEC	oxon, water, fltrd, ug/L (61649)	water, fltrd, ug/L (04095)	zinone, water, fltrd, ug/L (04025)	dione, water, fltrd, ug/L (61593)	phos, water, fltrd, ug/L (61594)	oxon, water, fltrd, ug/L (61652)	thion, water, fltrd, ug/L (39532)	laxyl, water, fltrd, ug/L (61596)	althion water, fltrd, ug/L (61598)	para- oxon, water, fltrd, ug/L (61664)	para- thion, water, fltrd 0.7u GF ug/L (82667)	chlor, water, fltrd, ug/L (39415)	buzin, water, fltrd, ug/L (82630)
DEC 10 MAR	oxon, water, fltrd, ug/L	water, fltrd, ug/L (04095) <.003	zinone, water, fltrd, ug/L (04025)	dione, water, fltrd, ug/L (61593)	phos, water, fltrd, ug/L (61594) <.003	oxon, water, fltrd, ug/L (61652) <.030	thion, water, fltrd, ug/L (39532) <.027	laxyl, water, fltrd, ug/L (61596)	althion water, fltrd, ug/L (61598)	para- oxon, water, fltrd, ug/L (61664)	parathion, water, fltrd 0.7u GF ug/L (82667)	chlor, water, fltrd, ug/L (39415)	buzin, water, fltrd, ug/L (82630)
DEC 10	oxon, water, fltrd, ug/L (61649) <.003	water, fltrd, ug/L (04095)	zinone, water, fltrd, ug/L (04025)	dione, water, fltrd, ug/L (61593)	phos, water, fltrd, ug/L (61594)	oxon, water, fltrd, ug/L (61652)	thion, water, fltrd, ug/L (39532)	laxyl, water, fltrd, ug/L (61596)	althion water, fltrd, ug/L (61598)	para- oxon, water, fltrd, ug/L (61664)	para- thion, water, fltrd 0.7u GF ug/L (82667)	chlor, water, fltrd, ug/L (39415)	buzin, water, fltrd, ug/L (82630)
DEC 10 MAR 07 JUN	oxon, water, fltrd, ug/L (61649) <.003	water, fltrd, ug/L (04095) <.003	zinone, water, fltrd, ug/L (04025) <.013	dione, water, fltrd, ug/L (61593) <.387 <.538	phos, water, fltrd, ug/L (61594) <.003	oxon, water, fltrd, ug/L (61652) <.030	thion, water, fltrd, ug/L (39532) <.027 <.027	laxyl, water, fltrd, ug/L (61596) <.005	althion water, fltrd, ug/L (61598) <.006	para- oxon, water, fltrd, ug/L (61664) <.03	parathion, water, fltrd 0.7u GF ug/L (82667) <.015	chlor, water, fltrd, ug/L (39415) <.006	buzin, water, fltrd, ug/L (82630) <.006
DEC 10 MAR 07 JUN 01 AUG	oxon, water, fltrd, ug/L (61649) <.003	water, fltrd, ug/L (04095) <.003 <.003	zinone, water, fltrd, ug/L (04025) <.013 <.013	dione, water, fltrd, ug/L (61593) <.387 <.538	phos, water, fltrd, ug/L (61594) <.003 <.003	oxon, water, fltrd, ug/L (61652) <.030 <.030	thion, water, fltrd, ug/L (39532) <.027 <.027 <.027	laxyl, water, fltrd, ug/L (61596) <.005 <.005	althion water, fltrd, ug/L (61598) <.006 <.006	para- oxon, water, fltrd, ug/L (61664) <.03 <.03	parathion, water, fltrd 0.7u GF ug/L (82667) < .015 < .015	chlor, water, fltrd, ug/L (39415) <.006 <.006	buzin, water, fltrd, ug/L (82630) <.006 <.006
DEC 10 MAR 07 JUN 01 AUG 29 Date	oxon, water, fltrd, ug/L (61649)  <.003 Molinate, water, fltrd 0.7u GF ug/L (82671)	water, fltrd, ug/L (04095)  <.003 <.003 <.003 <.003  Myclo-butanil water, fltrd, ug/L (61599)	zinone, water, fltrd, ug/L (04025)  <.013 <.013 <.013  Oxy-fluor-fen, water, fltrd, ug/L (61600)	dione, water, fltrd, ug/L (61593)  <.387 <.538 <.538  <.538  Pendimethalin, water, fltrd 0.7u GF ug/L (82683)	phos, water, fltrd, ug/L (61594) <.003 <.003 <.003 <.003 Phorate oxon, water, fltrd, ug/L (61666)	oxon, water, fltrd, ug/L (61652) <.030 <.030 <.030 <.030 Phorate water fltrd 0.7u GF ug/L (82664)	thion, water, fltrd, ug/L (39532) <.027 <.027 <.027 <.027 Phosmet oxon, water, fltrd, ug/L (61668)	laxyl, water, fltrd, ug/L (61596) <.005 <.005 <.005 <.005	althion water, fltrd, ug/L (61598)  <.006 <.006 <.006 <.006  Prometon, water, fltrd, ug/L (04037)	para- oxon, water, fltrd, ug/L (61664) <.03 <.03 <.03 <.03	parathion, water, fltrd 0.7u GF ug/L (82667) < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015	chlor, water, fltrd, ug/L (39415) <.006 <.006 <.006 <.006  Propanil, water, fltrd 0.7u GF ug/L (82679)	buzin, water, fltrd, ug/L (82630) <.006 <.006 <.006 Propar- gite, water, fltrd 0.7u GF ug/L (82685)
DEC 10 MAR 07 JUN 01 AUG 29 Date	oxon, water, fltrd, ug/L (61649)  <.003 Molinate, water, fltrd 0.7u GF ug/L (82671)	water, fltrd, ug/L (04095) <.003 <.003 <.003 <.003  Myclobutanil water, fltrd, ug/L (61599) <.008	zinone, water, fltrd, ug/L (04025)  <.013 <.013 <.013  Oxy-fluor-fen, water, fltrd, ug/L (61600)	dione, water, fltrd, ug/L (61593)  <.387 <.538 <.538 <.538  Pendimethalin, water, fltrd 0.7u GF ug/L (82683)  <.022	phos, water, fltrd, ug/L (61594) <.003 <.003 <.003 <.003 Phorate oxon, water, fltrd, ug/L (61666) <.10	oxon, water, fltrd, ug/L (61652) <.030 <.030 <.030 <.030 Phorate water fltrd 0.7u GF ug/L (82664) <.011	thion, water, fltrd, ug/L (39532)  <.027 <.027 <.027 <.027 <.027  Phosmet oxon, water, fltrd, ug/L (61668) <.05	laxyl, water, fltrd, ug/L (61596) <.005 <.005 <.005 <.005 Phosmet water, fltrd, ug/L (61601) <.008	althion water, fltrd, ug/L (61598)  <.006 <.006 <.006 <.006  Prometon, water, fltrd, ug/L (04037)  <.01	para- oxon, water, fltrd, ug/L (61664)  <.03 <.03 <.03 <.03 <li>(04036) &lt;.005</li>	parathion, water, fltrd 0.7u GF ug/L (82667) < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 <	chlor, water, fltrd, ug/L (39415) <.006 <.006 <.006 <.006  Propanil, water, fltrd 0.7u GF ug/L (82679)	buzin, water, fltrd, ug/L (82630) <.006 <.006 <.006 <.006 Propargite, water, fltrd 0.7u GF ug/L (82685)
DEC 10 MAR 07 JUN 01 AUG 29 Date	oxon, water, fltrd, ug/L (61649)  <.003 Molinate, water, fltrd 0.7u GF ug/L (82671)	water, fltrd, ug/L (04095) <.003 <.003 <.003 <.003  Myclobutanil water, fltrd, ug/L (61599) <.008 <.008	zinone, water, fltrd, ug/L (04025)  <.013 <.013 <.013  Oxy-fluor-fen, water, fltrd, ug/L (61600)	dione, water, fltrd, ug/L (61593)  <.387 <.538 <.538  <.538  Pendimethalin, water, fltrd 0.7u GF ug/L (82683)  <.022 <.022	phos, water, fltrd, ug/L (61594)  <.003 <.003 <.003 <.003  Phorate oxon, water, fltrd, ug/L (61666) <.10 <.10	oxon, water, fltrd, ug/L (61652) <.030 <.030 <.030 <.030 Phorate water fltrd 0.7u GF ug/L (82664) <.011 <.011	thion, water, fltrd, ug/L (39532) <.027 <.027 <.027 <.027 <.027  Phosmet oxon, water, fltrd, ug/L (61668) <.05 <.05	laxyl, water, fltrd, ug/L (61596) <.005 <.005 <.005 <.005	althion water, fltrd, ug/L (61598)  <.006 <.006 <.006 <.006  Prometon, water, fltrd, ug/L (04037) <.01 <.01	para- oxon, water, fltrd, ug/L (61664)  <.03 <.03 <.03 <.03  <.03 <.05  Prometryn, water, fltrd, ug/L (04036)  <.005 <.005	para- thion, water, fltrd 0.7u GF ug/L (82667)  <.015 <.015 <.015 <.015  Propy- zamide, water, fltrd 0.7u GF ug/L (82676)  <.004 <.004	chlor, water, fltrd, ug/L (39415) <.006 <.006 <.006 <.006  Propanil, water, fltrd 0.7u GF ug/L (82679)	buzin, water, fltrd, ug/L (82630) <.006 <.006 <.006 Propar- gite, water, fltrd 0.7u GF ug/L (82685)
DEC 10 MAR 07 JUN 01 AUG 29 Date	oxon, water, fltrd, ug/L (61649)  <.003 Molinate, water, fltrd 0.7u GF ug/L (82671)	water, fltrd, ug/L (04095) <.003 <.003 <.003 <.003  Myclobutanil water, fltrd, ug/L (61599) <.008	zinone, water, fltrd, ug/L (04025)  <.013 <.013 <.013  Oxy-fluor-fen, water, fltrd, ug/L (61600)	dione, water, fltrd, ug/L (61593)  <.387 <.538 <.538 <.538  Pendimethalin, water, fltrd 0.7u GF ug/L (82683)  <.022	phos, water, fltrd, ug/L (61594) <.003 <.003 <.003 <.003 Phorate oxon, water, fltrd, ug/L (61666) <.10	oxon, water, fltrd, ug/L (61652) <.030 <.030 <.030 <.030 Phorate water fltrd 0.7u GF ug/L (82664) <.011	thion, water, fltrd, ug/L (39532)  <.027 <.027 <.027 <.027 <.027  Phosmet oxon, water, fltrd, ug/L (61668) <.05	laxyl, water, fltrd, ug/L (61596) <.005 <.005 <.005 <.005 Phosmet water, fltrd, ug/L (61601) <.008	althion water, fltrd, ug/L (61598)  <.006 <.006 <.006 <.006  Prometon, water, fltrd, ug/L (04037)  <.01	para- oxon, water, fltrd, ug/L (61664)  <.03 <.03 <.03 <.03 <li>(04036) &lt;.005</li>	parathion, water, fltrd 0.7u GF ug/L (82667) < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 < .0015 <	chlor, water, fltrd, ug/L (39415) <.006 <.006 <.006 <.006  Propanil, water, fltrd 0.7u GF ug/L (82679)	buzin, water, fltrd, ug/L (82630) <.006 <.006 <.006 <.006 Propargite, water, fltrd 0.7u GF ug/L (82685)

# 362527076163301. County number, CA-087; LU-03.—Continued

# WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

				Ter-				trans-		Tri-		
		Tebu-		bufos	Terbu-	Ter-	Thio-	Propi-		flur-	Di-	
	Sima-	thiuron	Teflu-	oxon	fos,	buthyl-	bencarb	cona-	Tribu-	alin,	chlor-	Uranium
	zine,	water	thrin,	sulfone	water,	azine,	water	zole,	phos,	water,	vos,	natural
	water,	fltrd	water,	water,	fltrd	water,	fltrd	water,	water,	fltrd	water	water,
ъ.	fltrd,	0.7u GF	fltrd,	fltrd,	0.7u GF	fltrd,	0.7u GF	fltrd,	fltrd,	0.7u GF	fltrd,	fltrd,
Date	ug/L											
	(04035)	(82670)	(61606)	(61674)	(82675)	(04022)	(82681)	(79847)	(61610)	(82661)	(38775)	(22703)
DEC												
10	<.005	<.02		<.07	<.02	<.01				<.009	<.01	<.04
MAR												
07	<.005	<.02		<.07	<.02	<.01				<.009	<.01	
JUN												
01	<.005	<.02	<.008	<.07	<.02	<.01	<.010	<.02	<.004	<.009	<.01	
AUG												
29	<.005	<.02	<.008	<.07	<.02	<.01	<.010	<.01	<.004	<.009	<.01	

#### CARTERET COUNTY

344323076451301. Local number, NC-139; DENR Camp Glenn Research Station well X17j5; County number, CT-153.

LOCATION.--Lat 34°43'24", long 76°45'12", Hydrologic Unit 03020106, on west edge of Morehead City, and south of U.S. Highway 70 at DENR Marine Fisheries Facility on north shore of Bogue Sound. Owner: DENR (North Carolina Department of Environment and Natural Resources).

AQUIFER .-- Castle Hayne aquifer of Oligocene and Eocene age.

WELL CHARACTERISTICS.--Drilled observation well, drilled to 238 ft, diameter 4 in., cased to 180 ft, open hole to 191 ft, hole collapsed from 191 to 238 ft. INSTRUMENTATION.--Water-level recorder collecting data at 30-minute intervals. Satellite telemetry at station.

DATUM.--Land-surface datum is 8.72 ft above NGVD of 1929 (levels by DENR). Measuring point: Top of collar on casing, 1.73 ft above land-surface datum.

REMARKS.--Well is part of areal-effects network. Water levels influenced by nearby tidal fluctuations.

PERIOD OF RECORD .-- January 1976 to June 2005 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 4.23 ft below land-surface datum, Dec. 7, 1976; lowest water level recorded, 14.93 ft below land-surface datum, Aug. 25, 2002.

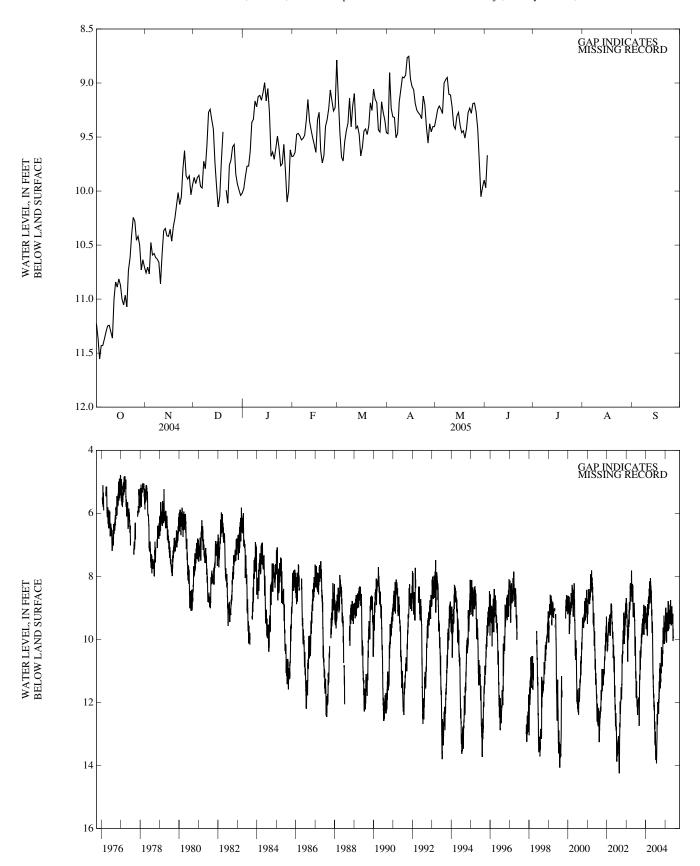
# DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.23	10.76	9.87	9.98	9.68	9.14	9.47	9.33	9.97			
2	11.36	10.70	9.93	9.86	9.64	9.47	8.90	9.24	9.67			
3	11.55	10.77	9.87	9.77	9.47	9.69	9.23	9.21				
4	11.43	10.48	9.85	9.77	9.47	9.72	9.31	9.24				
5	11.43	10.59	9.96	9.63	9.49	9.54	9.32	9.28				
6	11.37	10.58	9.97	9.36	9.53	9.44	9.51	9.00				
7	11.30	10.62	9.72	9.34	9.51	9.37	9.47	8.97				
8	11.25	10.63	9.79	9.17	9.48	9.14	9.18	8.95				
9	11.24	10.66	9.57	9.22	9.34	9.40	9.06	9.10				
10	11.30	10.86	9.27	9.12	9.15	9.21	8.95	9.11				
11	11.36	10.59	9.24	9.11	9.35	9.10	8.95	9.22				
12	11.00	10.37	9.34	9.16	9.43	9.42	8.93	9.40				
13	10.84	10.35	9.43	9.09	9.51	9.40	8.76	9.43				
14	10.89	10.41	9.74	9.00	9.57	9.47	8.75	9.31				
15	10.81	10.42	9.96	9.16	9.64	9.67	8.96	9.27				
16	10.87	10.35	10.15	9.05	9.34	9.60	9.03	9.39				
17	11.00	10.46	10.05	9.27	9.27	9.44	9.06	9.46				
18	11.05	10.33	9.72	9.68	9.63	9.43	9.19	9.44				
19	10.96	10.25	9.45	9.64	9.74	9.48	9.25	9.51				
20	11.07	10.13		9.71	9.67	9.40	9.27	9.42				
21	10.73	10.02	9.99	9.60	9.40	9.18	9.29	9.27				
22	10.62	10.12	10.11	9.49	9.34	9.26	9.33	9.23				
23	10.40	10.06	9.76	9.60	9.24	9.06	9.12	9.28				
24	10.24	9.79	9.71	9.77	9.06	9.15	9.20	9.19				
25	10.28	9.63	9.59	9.75	9.16	9.18	9.41	9.19				
26	10.46	9.86	9.57	9.57	9.26	9.43	9.56	9.27				
27	10.42	9.89	9.84	9.82	9.23	9.45	9.38	9.42				
28	10.50	9.86	9.93	10.10	8.79	9.17	9.45	9.73				
29	10.73	10.03	9.99	9.99		9.27	9.40	10.05				
30	10.64	9.94	10.04	9.62		9.34	9.40	9.97				
31	10.70		10.02	9.68		9.46		9.90				

WTR YR 2005 MEAN 9.74 HIGH 8.75 LOW 11.55

### CARTERET COUNTY—Continued

344323076451301. Local number, NC-139; DENR Camp Glenn Research Station well X17j5; County number, CT-153.



#### CHEROKEE COUNTY

351117083545001. Local number, NC-191; County number, CE-028.

LOCATION.--Lat 35°11'17", long 83°54'50", Hydrologic Unit 06020002, 0.6 mi north of Marble, 100 ft west of Secondary Road 1377. Owner: Coats American Company.

AQUIFER .-- Saprolite derived from schist of Precambrian age.

WELL CHARACTERISTICS.--Drilled observation well, depth108.5 ft, diameter 4 in., cased to 53 ft, screened interval from 53 to 83 ft, sand filter pack from 40 to 83 ft, backfilled with saprolite from 83 to 108.5 ft.

INSTRUMENTATION.--Water-level recorder collecting data at 60-minute intervals. Satellite telemetry at station.

DATUM.--Land-surface datum is 1,720 ft above NGVD of 1929 (from topographic map). Measuring point: Top of instrument shelf, 3.73 ft above land-surface datum; revised from 0.45 ft above land-surface datum April 2002; revised from 1.15 ft above land surface August 1995.

REMARKS.--Well is part of terrane-effects network.

PERIOD OF RECORD.--September 1985 to current year. Continuous record began October 1989.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 19.26 ft below land-surface datum, Mar. 29, 1994; lowest water level recorded, 40.49 ft below land-surface datum, Jan. 2, 2001.

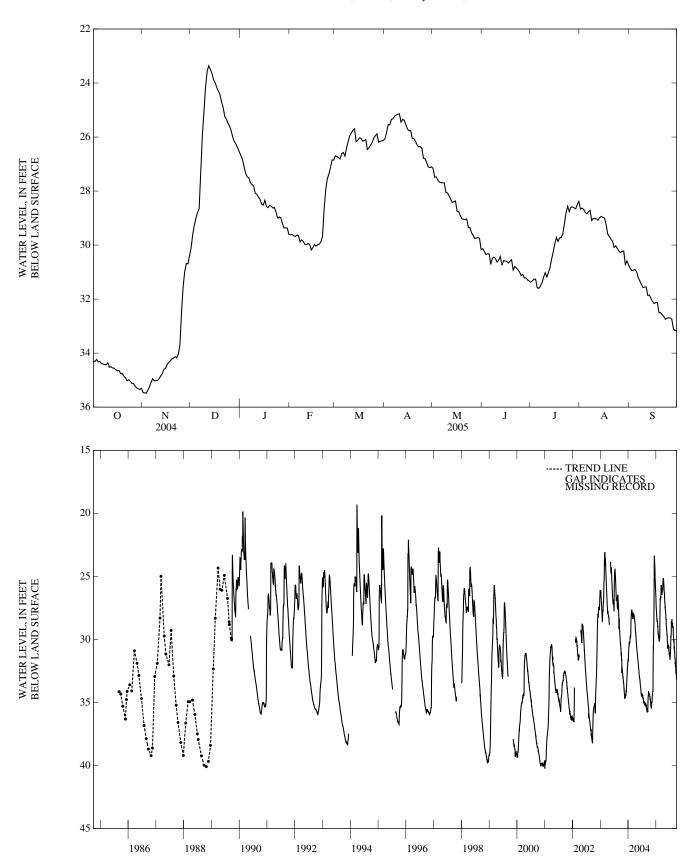
# DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34.30	35.46	30.09	26.68	29.62	26.70	26.06	27.16	30.13	31.38	28.66	30.86
2	34.31	35.47	29.61	26.82	29.61	26.72	25.82	27.49	30.24	31.32	28.64	30.95
3	34.24	35.49	29.26	27.09	29.65	26.77	25.54	27.48	30.34	31.27	28.68	30.93
4	34.32	35.37	28.99	27.34	29.68	26.81	25.55	27.60	30.33	31.26	28.79	30.91
5	34.30	35.25	28.80	27.47	29.63	26.61	25.34	27.67	30.33	31.58	28.85	30.98
6	34.39	35.08	28.65	27.51	29.66	26.57	25.33	27.69	30.71	31.61	28.76	31.19
7	34.40	34.95	27.30	27.69	29.88	26.70	25.22	27.69	30.49	31.52	28.71	31.32
8	34.42	35.03	25.95	27.77	29.81	26.41	25.18	27.71	30.44	31.40	29.09	31.45
9	34.43	35.02	25.07	27.81	29.87	26.16	25.16	28.05	30.51	31.19	29.02	31.58
10	34.36	35.01	24.16	28.08	29.97	25.95	25.14	28.07	30.63	31.02	29.02	31.55
11	34.52	34.95	23.57	28.12	29.98	25.85	25.45	28.18	30.55	31.18	29.04	31.55
12	34.50	34.85	23.36	28.22	29.94	25.74	25.35	28.31	30.42	31.02	29.08	31.86
13	34.55	34.76	23.49	28.30	29.98	25.69	25.38	28.43	30.75	30.83	28.99	31.85
14	34.56	34.59	23.65	28.49	30.18	26.17	25.54	28.39	30.58	30.52	28.94	31.97
15	34.62	34.57	23.87	28.52	30.09	26.12	25.70	28.37	30.59	30.25	28.97	32.09
16	34.66	34.41	23.99	28.34	29.98	26.03	25.77	28.75	30.60	29.96	29.00	32.17
17	34.64	34.35	24.17	28.56	30.04	26.04	25.75	28.76	30.66	29.71	29.24	32.13
18	34.76	34.29	24.29	28.61	29.98	26.15	26.05	28.91	30.60	29.87	29.59	32.13
19	34.76	34.22	24.42	28.53	29.97	26.14	26.06	29.02	30.54	29.74	29.68	32.50
20	34.85	34.19	24.71	28.56	29.88	26.09	26.16	29.04	30.93	29.72	29.78	32.50
21	34.92	34.13	24.91	28.63	29.68	26.46	26.29	29.06	30.80	29.59	29.86	32.58
22	35.02	34.17	25.25	28.61	28.67	26.40	26.37	29.03	30.84	29.21	30.09	32.65
23	34.99	34.04	25.34	28.78	27.95	26.30	26.35	29.34	30.92	28.81	30.02	32.75
24	35.04	33.69	25.49	29.00	27.54	26.20	26.42	29.36	31.00	28.56	30.12	32.71
25	35.12	32.50	25.60	28.96	27.37	26.03	26.78	29.54	31.13	28.76	30.23	32.69
26 27 28 29 30 31	35.12 35.22 35.29 35.32 35.35 35.30	31.55 30.98 30.69 30.69 30.40	25.76 26.02 26.17 26.27 26.40 26.54	28.99 29.20 29.37 29.36 29.37 29.60	27.12 26.85 26.85 	25.95 25.88 26.19 26.16 26.14 26.12	26.81 26.95 27.10 27.13 27.10	29.64 29.76 29.74 29.72 29.75 30.17	31.09 31.22 31.21 31.29 31.33	28.60 28.59 28.62 28.66 28.50 28.39	30.28 30.23 30.22 30.72 30.59 30.73	32.70 32.74 33.10 33.17 33.14

WTR YR 2005 MEAN 29.60 HIGH 23.36 LOW 35.49

# CHEROKEE COUNTY—Continued

351117083545001. Local number, NC-191; County number, CE-028.



#### CHEROKEE COUNTY—Continued

351121083545002. Local number, NC-192; County number, CE-029.

LOCATION.--Lat 35°11'21", long 83°54'50", Hydrologic Unit 06020002, 0.7 mi north of Marble, 75 ft west of Secondary Road 1377. Owner: Coats American Company.

AQUIFER .-- Saprolite derived from schist of Precambrian age.

WELL CHARACTERISTICS.--Drilled observation well, depth 24 ft, diameter 4 in., cased to 14 ft, screened interval from 14 to 24 ft, sand filter pack from 6 to 24 ft.

INSTRUMENTATION.--Water-level recorder collecting data at 60-minute intervals. Satellite telemetry at station.

DATUM.--Land-surface datum is 1,710 ft above NGVD of 1929 (from topographic map). Measuring point: Three saw cuts in top of casing, 3.35 ft above land-surface datum.

REMARKS.--Well is part of climatic-effects network.

PERIOD OF RECORD .-- October 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 0.26 ft above land-surface datum, Feb. 26, 2001; lowest water level recorded, 14.44 ft below land-surface datum, Nov. 4, 5, 6, 1993.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE

#### WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES DAY OCT NOV SEP DEC JAN FEB MAR MAY JUN JUL AUG APR 6.06 6.76 3.39 5.61 3.63 4.10 5.36 6.63 6.49 5.04 6.96 2 6.17 6.82 3.03 5.73 6.17 3.69 3.80 5.24 6.65 6.52 5.16 7.02 3 6.29 6.52 3.04 5.83 3.86 3.26 5.23 6.49 5.30 7.08 5.86 6.64 4 6.41 5.52 3.24 5.93 4.05 3.10 5.28 6.64 6.42 5.41 7.14 5 6.52 4.60 3.49 6.01 5.17 3.22 5.38 6.40 5.53 7.21 4.26 6.66 6 7 6.63 4.47 3.49 6.09 5.16 4.45 3.45 5.50 6.70 6.41 5.63 7.28 4.58 7.34 2.82 5.21 3.65 5.70 4.61 5.62 5.88 6.74 6.16 6.14 4.75 5.35 7.40 8 2.41 5.31 4.01 5.75 5.30 6.84 6.15 3.73 5.61 9 6.94 4.93 2.24 6.04 5.43 3.39 3.75 5.86 5.22 5.11 5.51 7.46 7.04 5.27 10 5.11 2.04 6.01 5.55 3.34 3.88 5.97 5.01 5.14 7.52 1.95 6.02 4.04 11 5.28 5.68 6.07 5.37 4.91 4.94 7.59 7.13 3.46 12 7.23 5.20 2.00 6.05 5.80 3.66 4.21 6.17 5.46 4.59 4.92 7.66 13 7.27 4.43 2.24 6.09 5.91 3.87 4.30 6.27 5.19 4.40 4.97 7.72 14 7.30 4.19 2.64 5.62 5.82 4.08 4.36 6.38 4.90 3.95 5.03 7.78 15 7.35 4.24 3.06 5.13 5.12 4.29 4.45 6.47 4.88 3.91 5.13 7.84 3.92 4.38 4.99 16 7.42 3.40 4.72 4.45 4.57 6.55 4.96 5.26 7.89 7.49 4.54 4.99 4.35 5.07 3.97 5.39 17 3.69 4.41 4.71 6.63 7.87 7.58 4.70 3.92 5.07 4.40 4.22 4.85 6.70 5.21 4.09 5.54 7.86 18 7.63 4.10 5.17 4.53 4.25 5.00 5.31 4.23 5.68 19 4.87 6.77 7.88 5.28 20 7.55 5.04 4.34 5.14 6.70 5.43 4.40 5.82 7.93 4.28 4.64 21 7.51 5.22 5 39 4.03 6.20 5.53 4.38 5 96 7 99 4.44 4.46 5.27 22 5.41 5.39 3.77 7.49 4.59 5.51 3.13 4.58 5 94 5.64 6.08 8.05 23 4.37 5.40 5.85 7.46 5.40 4.66 5.63 2.80 5.75 3.59 6.20 8.10 24 25 2.78 7.40 4.54 4.68 5.75 3.94 5.41 5.84 5.87 3.74 6.32 8.16 7.30 3.35 4.74 5.86 2.86 3.94 5.47 5.89 6.00 3.96 6.44 8.22 26 7.19 2.87 4.83 5.97 3.16 4.04 5.55 5.97 6.12 4.17 6.55 8.27 2.88 4.95 6.07 5.59 6.07 8.27 7.07 3.49 4.17 6.24 4.37 6.66 28 3.07 5.08 5.63 6.35 4.56 8.28 6.95 6.18 3.69 4.15 6.17 6.76 5.69 5.22 3.98 6.29 6.47 4.73 6.85 8.29 6.84 3.33 6.26 5.36 30 6.76 3.61 6.20 4.03 5.67 6.40 6.49 4.83 6.91 8.33 ---

4.11

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4.92

6.92

WTR YR 2005 MEAN 5.39 HIGH 1.95 LOW 8.33

5.49

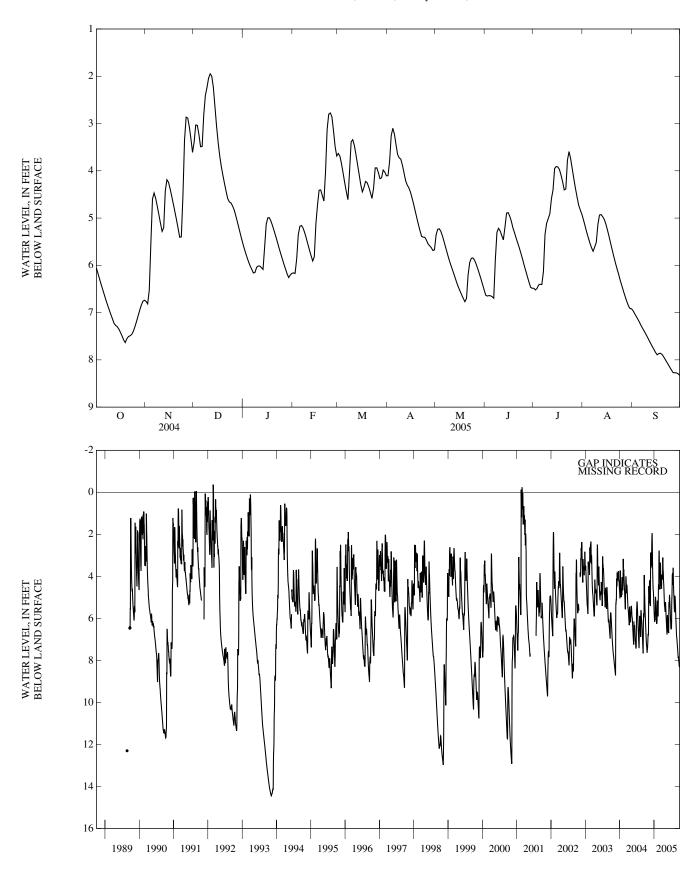
6.17

31

6.74

# CHEROKEE COUNTY—Continued

351121083545002. Local number, NC-192; County number, CE-029.



#### DAVIE COUNTY

355359080331701. Local number, NC-142; County number, DV-025.

LOCATION.--Lat 35°53'59", long 80°33'16", Hydrologic Unit 03040102, 0.5 mi northeast of Mocksville on U.S. Highway 158 at B.C. Brocks Community Center. Owner: U.S. Geological Survey.

AQUIFER .-- Unconfined weathered granite of Paleozoic age.

WELL CHARACTERISTICS.--Drilled observation well, drilled to 30.8 ft, diameter 6 in., cased to 30.8 ft, open end, backfilled with gravel from 20 to 30.8 ft. INSTRUMENTATION.--Water-level recorder collecting data at 60-minute intervals. Satellite telemetry at station.

DATUM.--Land-surface datum is 835 ft above NGVD of 1929 (from topographic map). Measuring point: Top of casing, 1.00 ft above land-surface datum. REMARKS.--In October 1982, well replaced nearby NC-110. Well is part of terrane-effects network.

PERIOD OF RECORD.--October 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 10.64 ft below land-surface datum, Mar. 28, 1993; lowest water level recorded, 23.22 ft below land-surface datum, Aug. 23, 24, 25, 26, 2002.

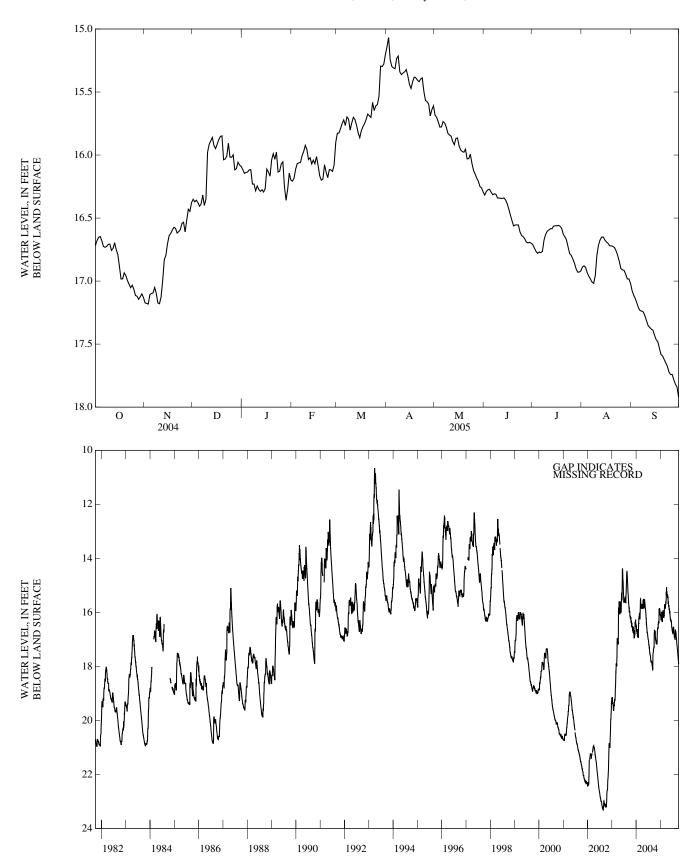
# DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.72	17.17	16.35	16.12	16.21	15.83	15.14	15.68	16.32	16.71	16.89	17.08
2	16.68	17.18	16.37	16.15	16.18	15.83	15.07	15.70	16.29	16.74	16.88	17.11
3	16.65	17.18	16.36	16.14	16.11	15.79	15.24	15.74	16.28	16.76	16.89	17.14
4	16.65	17.11	16.38	16.13	16.07	15.75	15.30	15.78	16.27	16.78	16.94	17.18
5	16.68	17.10	16.41	16.12	16.06	15.72	15.31	15.78	16.30	16.77	16.96	17.21
6	16.72	17.09	16.39	16.12	16.06	15.77	15.32	15.73	16.32	16.77	16.98	17.23
7	16.73	17.05	16.32	16.23	16.01	15.70	15.23	15.75	16.31	16.76	17.01	17.24
8	16.73	17.10	16.40	16.23	15.97	15.71	15.21	15.78	16.31	16.68	17.02	17.25
9	16.71	17.17	16.35	16.28	15.92	15.80	15.34	15.83	16.34	16.63	16.96	17.28
10	16.71	17.18	15.98	16.25	15.96	15.75	15.36	15.84	16.34	16.60	16.80	17.32
11	16.76	17.13	15.92	16.27	16.04	15.70	15.35	15.85	16.34	16.59	16.71	17.35
12	16.74	17.00	15.89	16.29	16.02	15.72	15.34	15.89	16.34	16.58	16.67	17.37
13	16.70	16.83	15.86	16.28	16.07	15.76	15.32	15.92	16.34	16.58	16.65	17.38
14	16.75	16.80	15.93	16.29	16.04	15.82	15.37	15.87	16.36	16.56	16.65	17.39
15	16.79	16.70	15.95	16.27	16.07	15.86	15.44	15.86	16.39	16.56	16.67	17.43
16	16.88	16.64	15.91	16.11	16.01	15.81	15.47	15.93	16.43	16.56	16.69	17.47
17	16.98	16.62	15.88	16.14	16.08	15.77	15.42	15.96	16.48	16.56	16.70	17.48
18	16.98	16.60	15.85	16.17	16.16	15.75	15.38	15.97	16.52	16.57	16.72	17.53
19	16.93	16.57	15.85	16.04	16.20	15.72	15.39	15.98	16.56	16.58	16.72	17.58
20	16.96	16.58	16.04	15.99	16.19	15.67	15.41	15.95	16.55	16.63	16.73	17.59
21	17.00	16.62	16.03	16.03	16.08	15.69	15.42	16.03	16.55	16.65	16.73	17.62
22	17.03	16.61	16.01	15.98	16.14	15.70	15.40	16.03	16.55	16.67	16.76	17.65
23	17.05	16.59	15.91	16.14	16.18	15.58	15.39	15.99	16.61	16.73	16.80	17.68
24	17.03	16.54	16.02	16.13	16.12	15.65	15.49	16.07	16.64	16.78	16.84	17.72
25	17.07	16.53	16.02	16.07	16.12	15.61	15.57	16.12	16.65	16.80	16.90	17.74
26 27 28 29 30 31	17.11 17.12 17.14 17.12 17.10 17.13	16.61 16.52 16.43 16.45 16.38	16.00 16.12 16.11 16.06 16.08 16.09	16.05 16.25 16.36 16.27 16.14 16.20	16.13 16.08 15.90 	15.60 15.53 15.29 15.30 15.28 15.20	15.58 15.60 15.69 15.64 15.61	16.15 16.18 16.21 16.25 16.26 16.29	16.67 16.69 16.70 16.69 16.70	16.83 16.86 16.90 16.93 16.93 16.92	16.91 16.92 16.95 16.98 16.98 17.02	17.74 17.78 17.82 17.84 17.92

WTR YR 2005 MEAN 16.38 HIGH 15.07 LOW 17.92

# DAVIE COUNTY—Continued

355359080331701. Local number, NC-142; County number, DV-025.



#### **DUPLIN COUNTY**

345051078012108. Local number, NC-222; DENR Rose Hill Research Station well V32v8; County number, DU-136.

LOCATION.--Lat 34°50'52", long 78°01'20", Hydrologic Unit 03030007, 1.5 mi north of Rose Hill at Rose Hill-Magnolia Elementary School, east of U.S. Highway 117 on Secondary Road 1911. Owner: DENR (North Carolina Department of Environment and Natural Resources).

AQUIFER .-- Surficial aquifer of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation well, depth 14 ft, diameter 4 in., screened interval from 10 to 14 ft.

INSTRUMENTATION.--Water-level recorder collecting data at 60-minute intervals. Satellite telemetry at station.

DATUM.--Land-surface datum is 86 ft above NGVD of 1929 (from topographic map). Measuring point: Top of 4 in. casing collar, 1.21 ft above land-surface datum.

REMARKS.--Well is part of areal-effects network.

PERIOD OF RECORD.--October 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 0.62 ft below land-surface datum, June 18, 2003; lowest water level recorded occurred during period when well was dry, Sept. 1 to Sept. 30, 2002.

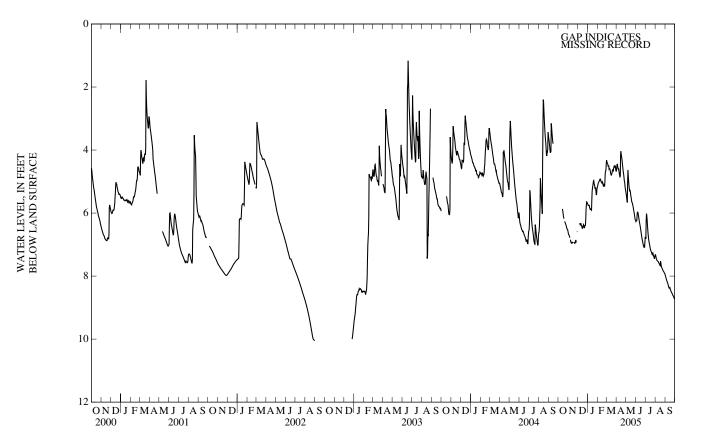
# DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	  	6.62 6.66 6.69 6.71 6.74	   	5.70 5.74 5.76 5.75 5.76	5.15 5.11 5.05 5.03 5.01	4.32 4.36 4.40 4.43 4.45	4.66 4.54 4.45 4.45 4.52	5.37 5.43 5.51 5.60 5.66	6.27 6.25 6.23 6.23 6.00	6.77 6.82 6.24 6.02 6.07	7.32 7.35 7.40 7.46 7.48	7.98 8.02 8.05 8.09 8.12
6 7 8 9 10	  	6.78  6.84 6.90 6.94	6.32 6.35 6.39 6.34	5.75 5.83 5.86 5.88 5.87	4.99 4.95 4.93 4.92 4.92	4.51 4.51 4.50 4.61 4.59	4.58 4.61 4.60 4.67 4.75	5.00 4.63 4.82 4.97 5.10	5.97 5.97 6.03 6.09 6.15	6.21 6.37 6.52 6.65 6.76	7.50 7.52 7.53 7.54 7.55	8.16 8.19 8.21 8.24 8.28
11 12 13 14 15	5.87 5.93	6.95 6.96 6.93 6.95 6.94	6.33 6.39 6.40 6.45 6.48	5.88 5.89 5.91 5.58 5.31	4.98 4.99 5.02 5.05 5.05	4.59 4.62 4.68 4.75 4.79	4.80 4.85 4.84 4.14 4.04	5.21 5.31 5.27 5.29 5.36	6.22 6.29 6.34 6.40 6.46	6.85 6.92 6.97 7.02 7.08	7.57 7.59 7.61 7.63 7.66	8.33 8.36 8.38 8.37 8.36
16 17 18 19 20	6.01 6.09 6.15 6.18	6.92  6.92 6.94	6.48 6.44 6.40 6.37 6.41	5.20 5.14 5.07 4.99 4.97	5.01 5.04 5.09 5.14 5.15	4.80 4.77 4.74 4.67 4.62	4.14 4.20 4.27 4.37 4.47	5.45 5.50 5.57 5.64 5.67	6.53 6.60 6.67 6.74 6.81	7.13 7.17 7.20 7.23 7.26	7.67 7.52 7.58 7.66 7.71	8.40 8.43 8.46 8.49 8.51
21 22 23 24 25	6.26 6.29 6.32 6.35 6.38	6.96 6.96 6.93 6.90 6.85	6.47 6.46 6.41 6.39 6.39	5.06 5.10 5.14 5.23 5.20	5.10 5.12 5.16 4.98 4.73	4.63 4.68 4.58 4.55 4.51	4.57 4.67 4.73 4.80 4.91	5.68 5.74 5.78 5.85 5.91	6.86 6.90 6.96 7.02 7.05	7.28 7.31 7.27 7.26 7.31	7.73 7.76 7.78 7.80 7.83	8.53 8.55 8.57 8.59 8.62
26 27 28 29 30 31	6.41 6.45 6.49 6.52 6.52 6.56	6.94  6.59  	6.19 5.87 5.73 5.64 5.65 5.68	5.20 5.33 5.43 5.40 5.23 5.19	4.67 4.65 4.46 	4.53 4.55 4.49 4.55 4.64 4.67	5.00 5.04 5.17 5.24 5.30	5.96 6.03 6.10 6.17 6.22 6.23	7.08 7.05 7.10 6.95 6.77	7.35 7.38 7.42 7.45 7.40 7.33	7.85 7.86 7.88 7.90 7.92 7.95	8.63 8.65 8.69 8.71 8.72

WTR YR 2005 MEAN 6.17 HIGH 4.04 LOW 8.72

# DUPLIN COUNTY—Continued

345051078012108. Local number, NC-222; DENR Rose Hill Research Station well V32v8; County number, DU-136.



#### GREENE COUNTY

353103077333401. County number, GR-082; L2 Lizzie N26q2.

LOCATION.--Lat 35°31'04", long 77°33'33", Hydrologic Unit 03020203, near Lizzie, 20 ft north of Secondary Road 1335. Owner: DENR (North Carolina Department of Environment and Natural Resources).

AQUIFER .-- Surficial.

WELL CHARACTERISTICS.--Drilled observation well, depth 18 ft, diameter 2 in., cased to 6 ft, screened interval from 6 to 16 ft.

INSTRUMENTATION.--Water-level recorder collecting data at 15-minute intervals. Satellite telemetry at station.

DATUM.--Land-surface datum is 76.96 ft above NGVD of 1929 (levels by North Carolina Geodetic Survey). Measuring point: Top of metal casing, 2.71 ft above land surface datum.

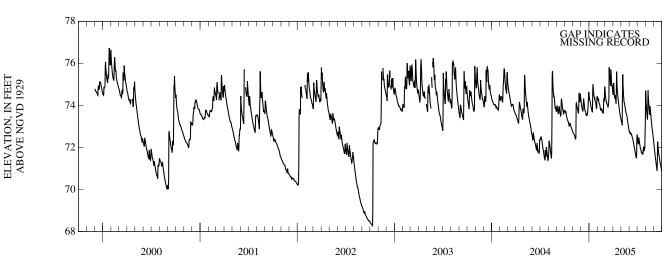
REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources and the U.S. Environmental Protection Agency as part of the Lizzie research site water-quality monitoring project.

PERIOD OF RECORD .-- December 1999 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 76.98 ft above NGVD of 1929, Jan. 25, 2000; lowest water level recorded, 68.26 ft above NGVD of 1929, Oct. 11, 2002.

	ELEVATION ABOVE NGVD 1929, FEET WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES  DAY OCT NOV DEC IAN FEB MAR APR MAY IUN IUI. AUG SEP														
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
1	73.72	72.71	74.29	74.45	74.34	74.90	74.51	73.30	72.72	72.52	74.71	72.18			
2	73.72	72.68	74.15	74.34	74.27	74.65	74.96	73.25	72.75	72.41	74.40	72.06			
3	73.68	72.65	74.05	74.27	74.23	74.48	75.07	73.18	72.74	72.29	74.15	71.94			
4	73.72	72.64	73.95	74.21	74.35	74.36	74.76	73.11	72.71	72.19	73.92	71.82			
5	73.72	72.62	73.86	74.16	74.29	74.28	74.56	73.05	72.67	72.15	73.73	71.71			
6	73.66	72.59	73.81	74.11	74.18	74.17	74.42	74.59	72.63	72.47	73.58	71.59			
7	73.56	72.57	73.79	73.99	74.13	74.13	74.33	75.47	72.61	72.41	73.45	71.48			
8	73.49	72.51	73.73	73.93	74.08	74.13	74.48	75.01	72.61	72.32	73.32	71.38			
9	73.43	72.45	73.75	73.85	74.05	74.06	74.43	74.71	72.63	72.22	73.76	71.28			
10	73.40	72.41	74.13	73.82	74.02	74.03	74.29	74.49	72.57	72.13	74.73	71.17			
11	73.32	72.40	74.32	73.76	73.92	74.01	74.17	74.31	72.52	72.06	74.48	71.06			
12	73.29	72.50	74.19	73.70	73.85	73.96	74.08	74.15	72.48	71.99	74.24	70.97			
13	73.27	74.08	74.11	73.67	73.78	73.90	74.67	74.11	72.44	71.94	74.04	70.89			
14	73.22	74.11	73.96	74.45	73.77	74.01	75.61	74.06	72.38	71.89	73.86	71.29			
15	73.19	74.03	73.83	75.00	73.80	74.07	75.12	73.98	72.32	71.84	73.71	72.28			
16	73.13	73.96	73.76	74.87	73.84	74.32	74.83	73.91	72.25	71.76	73.55	72.12			
17	73.05	73.88	73.72	74.70	73.83	75.81	74.66	73.83	72.17	71.73	73.96	71.98			
18	73.00	73.82	73.70	74.53	73.77	75.62	74.53	73.73	72.10	71.78	73.90	71.85			
19	73.08	73.76	73.67	74.45	73.70	75.26	74.40	73.66	72.02	71.71	73.75	71.73			
20	73.15	73.71	73.56	74.38	73.68	75.47	74.27	73.62	71.95	71.75	73.61	71.64			
21	73.15	73.65	73.52	74.32	73.71	75.16	74.15	73.57	71.89	71.71	73.48	71.58			
22	73.12	73.62	73.52	74.34	73.65	74.94	74.04	73.52	71.83	71.66	73.33	71.51			
23	73.08	74.05	73.58	74.25	73.62	75.69	73.96	73.47	71.75	71.87	73.20	71.42			
24	73.04	74.60	73.57	74.16	74.04	75.69	73.84	73.38	71.68	72.04	73.07	71.31			
25	72.98	74.50	73.56	74.13	74.34	75.35	73.71	73.28	71.61	72.01	72.95	71.22			
26 27 28 29 30 31	72.93 72.90 72.86 72.84 72.81 72.77	74.25 74.16 74.56 74.49 74.36	73.62 73.84 73.96 74.27 74.64 74.56	74.10 73.96 73.86 73.86 74.26 74.44	74.25 74.19 74.81 	75.05 74.91 74.98 74.86 74.68 74.56	73.63 73.57 73.46 73.41 73.36	73.20 73.10 73.03 72.94 72.86 72.79	71.56 71.49 71.53 72.37 72.62	71.93 71.83 71.90 72.00 72.70 73.22	72.85 72.75 72.64 72.53 72.43 72.32	71.17 71.14 71.05 70.98 70.87			

WTR YR 2005 MEAN 73.41 MAX 75.81 MIN 70.87



353111077334402. County number, GR-085; L6 Lizzie N26q6.

LOCATION.--Lat 35°31'13", long 77°33'42", Hydrologic Unit 03020203, near Lizzie, north of Secondary Road 1335 and west of Secondary Road 1345. Owner: DENR (North Carolina Department of Environment and Natural Resources).

#### WATER-LEVEL RECORDS

AQUIFER .-- Surficial.

WELL CHARACTERISTICS.--Drilled observation well, depth 8 ft, diameter 2 in., screened interval from 4 to 7 ft.

INSTRUMENTATION .-- Water-level recorder collecting data at 60-minute intervals.

DATUM.--Land-surface datum is 73.38 ft above NGVD of 1929 (levels by North Carolina Geodetic Survey). Measuring point: Top of protective outer casing, 3.38 ft above land surface datum.

REMARKS.--Well is part of National Water Quality Assessment Program (NAWQA). Environmental Protection Agency as part of the Lizzie research site water-quality monitoring project.

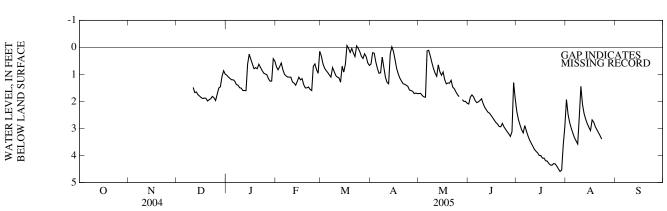
PERIOD OF RECORD.--December 2004 to August 2005

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, -0.2 ft below land-surface datum, March 23, May 6; lowest water level recorded, 4.6 ft below land-surface datum, July 28, 29, 2005.

# DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				1.0	0.7	0.3	0.6	1.7	2.1	2.4	1.9	
2				1.1	0.8	0.6	0.2	1.7	1.8	2.7	2.5	
3				1.2	0.7	0.8	0.2	1.8	1.8	2.9	2.8	
4				1.2	0.6	0.9	0.5	1.8	1.8	3.0	3.0	
5				1.2	0.8	0.9	0.8	1.8	2.0	3.2	3.2	
6				1.3	1.0	1.0	1.0	0.1	2.0	2.9	3.3	
7				1.4	1.1	1.1	0.9	0.1	2.0	3.1	3.5	
8				1.4	1.1	0.7	0.4	0.3	2.0	3.3	3.6	
9				1.5	1.1	0.9	0.7	0.6	1.9	3.4	2.6	
10				1.5	1.1	1.0	1.1	0.8	2.1	3.5	1.4	
11			1.5	1.6	1.3	1.1	1.3	1.0	2.2	3.7	2.1	
12			1.7	1.6	1.3	1.1	1.3	1.1	2.3	3.8	2.5	
13			1.6	1.6	1.4	1.3	0.2	0.6	2.4	3.8	2.7	
14			1.8	0.6	1.3	0.7	0.0	0.9	2.4	3.9	2.8	
15			1.8	0.3	1.1	0.9	0.1	1.0	2.5	4.0	3.0	
16			1.9	0.4	1.2	0.6	0.4	0.9	2.6	4.0	3.1	
17			1.9	0.6	1.2	-0.1	0.8	1.2	2.7	4.1	2.7	
18			1.9	0.8	1.4	0.0	1.0	1.4	2.8	4.1	2.8	
19			1.9	0.8	1.5	0.2	1.1	1.3	2.8	4.2	2.9	
20			2.0	0.8	1.5	0.0	1.2	1.3	2.9	4.2	3.0	
21			1.9	0.6	1.5	0.2	1.3	1.2	2.9	4.3	3.2	
22			1.9	0.7	1.6	0.3	1.4	1.5	2.8	4.4	3.3	
23			1.8	0.9	1.6	-0.1	1.4	1.5	2.9	4.4	3.4	
24			1.9	1.0	0.7	0.0	1.4	1.6	3.0	4.3		
25			2.0	1.0	0.6	0.2	1.6	1.8	3.1	4.3		
26			1.7	1.0	0.8	0.3	1.6	1.8	3.2	4.4		
27			1.5	1.2	1.0	0.4	1.6		3.3	4.5		
28			1.5	1.3	0.1	0.2	1.7	1.9	3.1	4.6		
29			1.1	1.2		0.3	1.7	2.0	1.3	4.5		
30			0.9	0.4		0.6	1.7	2.0	1.9	3.6		
31			1.0	0.5		0.7		2.1		2.9		

WTR YR 2005 MEAN 1.7 HIGH -0.1 LOW 4.6



# 353111077334402. County number, GR-085; L6 Lizzie N26q6—Continued

# WATER-QUALITY RECORDS

PERIOD OF RECORD.--1995, 2001, 2002, 2003, 2004, October 2004 to September 2005.

REMARKS.--Well is part of National Water Quality Assessment (NAWQA) Program.

# WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Depth of well, feet below LSD (72008)	Depth to water level, feet below LSD (72019)	Altitude of land surface feet (72000)	Water level, depth below MP, feet (61055)	Flow rate, instantaneous gal/min (00059)	Sampling depth, feet (00003)	Turbdty white light, det ang 90+/-30 corretd NTRU (63676)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)
DEC 01	1445	7.0	2.08	73.38	5.46	.20	5.00		758	2.8	29	4.2	653
MAR 03	1200	7.0	.93	73.38	4.31	.20		.7	759	4.3	40	4.4	689
MAY 27	0945	7.0	1.86	73.38	5.24	.20		1.2	756	.8	8	4.1	725
AUG 24	1130	7.0	3.47	73.38	6.85	.10		8.9	758	.9	11	4.0	701
Date DEC	Temper- ature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium adsorp- tion ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)
01 MAR	17.5	130	31.8	12.3	9.27	2	41.4	E.02	101	.5	12.3	16.3	326
03 MAY	12.0	150	36.9	14.1	12.0	2	43.5	<.02	116	.5	8.26	21.4	373
27 AUG	17.8	150	35.7	14.9	14.4	2	46.9	.05	116	.6	10.0	17.9	422
24	25.1	140	35.7	12.8	12.1	1	40.9	.07	114	.6	13.4	15.2	383
Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Total nitro- gen, wat flt by anal ysis, mg/L (62854)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Aluminum, water, fltrd, ug/L (01106)	Anti- mony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)
DEC 01	<.04	30.7	<.008	29.7	.010	4,630	<.20	E.1	612	3.07	22	.30	E.7
MAR 03	<.04	28.4	<.008	29.1	E.005								
MAY 27	<.04	31.1	<.008	32.6	E.004								
AUG 24													
	E.03	29.0	E.007	28.8	.013								
Date	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)		.013  Lithium water, fltrd, ug/L (01130)	Mangan- ese, water, fltrd, ug/L (01056)	Molyb- denum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selen- ium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Stront- ium, water, fltrd, ug/L (01080)	Thall- ium, water, fltrd, ug/L (01057)	Vanadium, water, fltrd, ug/L (01085)
DEC	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Lithium water, fltrd, ug/L (01130)	ese, water, fltrd, ug/L (01056)	Molyb- denum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	ium, water, fltrd, ug/L (01145)	water, fltrd, ug/L (01075)	ium, water, fltrd, ug/L (01080)	ium, water, fltrd, ug/L (01057)	Vanadium, water, fltrd, ug/L (01085)
DEC 01 MAR	Cobalt water, fltrd, ug/L	Copper, water, fltrd, ug/L	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L	Lithium water, fltrd, ug/L	ese, water, fltrd, ug/L (01056)	Molyb- denum, water, fltrd, ug/L	Nickel, water, fltrd, ug/L	ium, water, fltrd, ug/L	water, fltrd, ug/L	ium, water, fltrd, ug/L	ium, water, fltrd, ug/L	Vanad- ium, water, fltrd, ug/L
DEC 01	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049) 4.39	Lithium water, fltrd, ug/L (01130)	ese, water, fltrd, ug/L (01056)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	ium, water, fltrd, ug/L (01145)	water, fltrd, ug/L (01075)	ium, water, fltrd, ug/L (01080)	ium, water, fltrd, ug/L (01057)	Vanadium, water, fltrd, ug/L (01085)

# 353111077334402. County number, GR-085; L6 Lizzie N26q6—Continued

# WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

		WAIL	K-QUALII										
Date	Zinc, water, fltrd, ug/L (01090)	1-Naph- thol, water, fltrd 0.7u GF ug/L (49295)	2,6-Diethylaniline water fltrd 0.7u GF ug/L (82660)	2Chloro -2',6-' diethyl acet- anilide wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)	2-Ethyl -6- methyl- aniline water, fltrd, ug/L (61620)	3,4-Di- chloro- aniline water fltrd, ug/L (61625)	3,5-Di- chloro- aniline water, fltrd, ug/L (61627)	4Chloro 2methyl phenol, water, fltrd, ug/L (61633)	Aceto- chlor, water, fltrd, ug/L (49260)	Ala- chlor, water, fltrd, ug/L (46342)	alpha- Endo- sulfan, water, fltrd, ug/L (34362)	Atrazine, water, fltrd, ug/L (39632)
DEC 01	28.2	<.09	<.006	<.005	<.006	<.004	<.004		<.006	<.006	<.005		<.007
MAR 03		<.09	<.006	<.005	<.006	<.004	<.004		<.006	<.006	<.005		<.007
MAY 27		<.09	<.006	<.005	<.006	<.004	<.004		<.006	<.006	<.005		.052
AUG 24		<.09	<.006	<.005	E.006	<.004	<.004	<.004	<.006	<.006	<.005	<.005	.016
2		,	4,000	4,002	2.000				1.000	1.000	4,000		.010
Date	Azin-phos-methyl oxon, water, fltrd, ug/L (61635)	Azin- phos- methyl, water, fltrd 0.7u GF ug/L (82686)	Ben- flur- alin, water, fltrd 0.7u GF ug/L (82673)	Carbaryl, water, fltrd 0.7u GF ug/L (82680)	Carbo- furan, water, fltrd 0.7u GF ug/L (82674)	Chlor- pyrifos oxon, water, fltrd, ug/L (61636)	Chlor- pyrifos water, fltrd, ug/L (38933)	cis- Per- methrin water fltrd 0.7u GF ug/L (82687)	cis- Propi- cona- zole, water, fltrd, ug/L (79846)	Cyana- zine, water, fltrd, ug/L (04041)	Cyflu- thrin, water, fltrd, ug/L (61585)	lambda- Cyhalo- thrin, water, fltrd, ug/L (61595)	Cyper- methrin water, fltrd, ug/L (61586)
DEC 01	<.07	<.050	<.010	<.041		<.06	<.005	<.006			<.008		<.009
MAR 03	<.07	<.050	<.010	<.041		<.06	<.015	<.006			<.070		<.050
MAY 27	<.07	<.050	<.010	<.041		<.06	<.005	<.006			<.027		<.009
AUG	07	<.050	<.010	<.041	<.020	<.06	<.005	<.006	<.008	<.018	<.027	<.009	<.009
24	<.07												
Date	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170)	Diaz- inon oxon, water, fltrd, ug/L (61638)	Diazi- non, water, fltrd, ug/L (39572)	Dicrotophos, water fltrd, ug/L (38454)	Diel- drin, water, fltrd, ug/L (39381)	Dimethoate, water, fltrd 0.7u GF ug/L (82662)	Disulf- oton sulfone water, fltrd, ug/L (61640)	Disul- foton, water, fltrd 0.7u GF ug/L (82677)	Endo- sulfan sulfate water, fltrd, ug/L (61590)	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethion monoxon water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)
Date DEC 01	DCPA, water fltrd 0.7u GF ug/L	Desulf- inyl fipro- nil, water, fltrd, ug/L	inon oxon, water, fltrd, ug/L	non, water, fltrd, ug/L	tophos, water fltrd, ug/L	drin, water, fltrd, ug/L	oate, water, fltrd 0.7u GF ug/L	oton sulfone water, fltrd, ug/L	foton, water, fltrd 0.7u GF ug/L	sulfan sulfate water, fltrd, ug/L	water, fltrd 0.7u GF ug/L	monoxon water, fltrd, ug/L	water, fltrd, ug/L
Date DEC 01 MAR 03	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170)	inon oxon, water, fltrd, ug/L (61638)	non, water, fltrd, ug/L (39572)	tophos, water fltrd, ug/L (38454)	drin, water, fltrd, ug/L (39381)	oate, water, fltrd 0.7u GF ug/L (82662)	oton sulfone water, fltrd, ug/L	foton, water, fltrd 0.7u GF ug/L	sulfan sulfate water, fltrd, ug/L (61590)	water, fltrd 0.7u GF ug/L (82668)	monoxon water, fltrd, ug/L (61644)	water, fltrd, ug/L (82346)
Date DEC 01 MAR 03 MAY 27	DCPA, water fltrd 0.7u GF ug/L (82682) <.003	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170)	inon oxon, water, fltrd, ug/L (61638)	non, water, fltrd, ug/L (39572)	tophos, water fltrd, ug/L (38454)	drin, water, fltrd, ug/L (39381)	oate, water, fltrd 0.7u GF ug/L (82662) <.006	oton sulfone water, fltrd, ug/L (61640)	foton, water, fltrd 0.7u GF ug/L (82677)	sulfan sulfate water, fltrd, ug/L (61590)	water, fltrd 0.7u GF ug/L (82668)	monoxon water, fltrd, ug/L (61644) <.0020	water, fltrd, ug/L (82346) <.004
Date DEC 01 MAR 03 MAY	DCPA, water fltrd 0.7u GF ug/L (82682) <.003	Desulfinyl fipronil, water, fltrd, ug/L (62170) <.012	inon oxon, water, fltrd, ug/L (61638) <.01	non, water, fltrd, ug/L (39572) <.005 <.005	tophos, water fltrd, ug/L (38454) <.08 <.08	drin, water, fltrd, ug/L (39381) <.009 <.009	oate, water, fltrd 0.7u GF ug/L (82662) <.006	oton sulfone water, fltrd, ug/L (61640)	foton, water, fltrd 0.7u GF ug/L (82677)	sulfan sulfate water, fltrd, ug/L (61590)	water, fltrd 0.7u GF ug/L (82668)	monoxon water, fltrd, ug/L (61644) <.0020 <.0020	water, fltrd, ug/L (82346) <.004 <.004
Date  DEC 01 MAR 03 MAY 27 AUG	DCPA, water fltrd 0.7u GF ug/L (82682) <.003 <.003	Desulfinyl fipronil, water, fltrd, ug/L (62170) <.012 <.012 <.012	inon oxon, water, fltrd, ug/L (61638) <.01	non, water, fltrd, ug/L (39572) <.005 <.005	tophos, water fltrd, ug/L (38454) <.08 <.08	drin, water, fltrd, ug/L (39381) <.009 <.009	oate, water, fltrd 0.7u GF ug/L (82662) <.006 <.006	oton sulfone water, fltrd, ug/L (61640)	foton, water, fltrd 0.7u GF ug/L (82677)	sulfan sulfate water, fltrd, ug/L (61590)	water, fltrd 0.7u GF ug/L (82668)	monoxon water, fltrd, ug/L (61644) <.0020 <.0020	water, fltrd, ug/L (82346) <.004 <.004
Date  DEC 01 MAR 03 MAY 27 AUG 24	DCPA, water fltrd 0.7u GF ug/L (82682) <.003 <.003 <.003 <.003	Desulfinyl fipronil, water, fltrd, ug/L (62170) <.012 <.012 <.012 <.012 Fenamiphos sulfone water, fltrd, ug/L	inon oxon, water, fltrd, ug/L (61638)  <.01 Fenamiphos sulfoxide, water, fltrd, ug/L	non, water, fltrd, ug/L (39572) <.005 <.005 <.005 <.005	tophos, water fltrd, ug/L (38454)  <.08 <.08 <.08 <.08  Desulf-inyl-fipronil amide, wat flt ug/L	drin, water, fltrd, ug/L (39381) <.009 <.009 <.009 Fipro- nil sulfide water, fltrd, ug/L	oate, water, fltrd 0.7u GF ug/L (82662) <.006 <.006 <.006 Fipro- nil sulfone water, fltrd, ug/L	oton sulfone water, fltrd, ug/L (61640)  <.01  Fipronil, water, fltrd, ug/L	foton, water, fltrd 0.7u GF ug/L (82677)	sulfan sulfate water, fltrd, ug/L (61590)  <.014  Fonofos water, fltrd, ug/L	water, fltrd 0.7u GF ug/L (82668)  <.004  Hexa-zinone, water, fltrd, ug/L	monoxon water, fltrd, ug/L (61644) <.0020 <.0020 <.0020 Ipro- dione, water, fltrd, ug/L	water, fltrd, ug/L (82346) <.004 <.004 <.004 <.004 Isofen-phos, water, fltrd, ug/L
Date  DEC 01 MAR 03 MAY 27 AUG 24  Date  DEC 01 MAR	DCPA, water fltrd 0.7u GF ug/L (82682) <.003 <.003 <.003 <.003 <.004 Ethoprop, water, fltrd 0.7u GF ug/L (82672)	Desulf-inyl fipro-nil, water, fltrd, ug/L (62170) <.012 <.012 <.012 <.012 <.012 fenami-phos sulfone water, fltrd, ug/L (61645)	inon oxon, water, fltrd, ug/L (61638)  <.01    Fenamiphos sulfoxide, water, fltrd, ug/L (61646)	non, water, fltrd, ug/L (39572) <.005 <.005 <.005 <.005 Fenami- phos, water, fltrd, ug/L (61591)	tophos, water fltrd, ug/L (38454)  <.08 <.08 <.08 <.08  Desulf-inyl-fipronil amide, wat flt ug/L (62169)	drin, water, fltrd, ug/L (39381) <.009 <.009 <.009 <.009 Fipronil sulfide water, fltrd, ug/L (62167) <.013	oate, water, fltrd 0.7u GF ug/L (82662) <.006 <.006 <.006 Fipro- nil sulfone water, fltrd, ug/L (62168)	oton sulfone water, fltrd, ug/L (61640)  <.01  Fipronil, water, fltrd, ug/L (62166)	foton, water, fltrd 0.7u GF ug/L (82677)  <.02	sulfan sulfate water, fltrd, ug/L (61590)  <.014  Fonofos water, fltrd, ug/L (04095)	water, fltrd 0.7u GF ug/L (82668)  < < < < < < < < <-	monoxon water, fltrd, ug/L (61644) <.0020 <.0020 <.0022 Ipro- dione, water, fltrd, ug/L (61593) <.387	water, fltrd, ug/L (82346) <.004 <.004 <.004 <.004  Isofen-phos, water, fltrd, ug/L (61594)
Date  DEC 01 MAR 03 MAY 27 AUG 24  Date  DEC 01 MAR 03 MAY	DCPA, water fltrd 0.7u GF ug/L (82682) <.003 <.003 <.003 <.003 <.004 Ethoprop, water, fltrd 0.7u GF ug/L (82672)	Desulfinyl fipronil, water, fltrd, ug/L (62170) <.012 <.012 <.012 <.012 <.012 <.014  Fenamiphos sulfone water, fltrd, ug/L (61645) <.049 <.049	inon oxon, water, fltrd, ug/L (61638)  <.01   Fenamiphos sulfoxide, water, fltrd, ug/L (61646)  <.04	non, water, fltrd, ug/L (39572) <.005 <.005 <.005 <.005 Fenami- phos, water, fltrd, ug/L (61591) <.03 <.03	tophos, water fltrd, ug/L (38454)  <.08 <.08 <.08 <.08  Desulf-inyl-fipronil amide, wat flt ug/L (62169) <.029 <.029	drin, water, fltrd, ug/L (39381) <.009 <.009 <.009 <.009 Fipronil sulfide water, fltrd, ug/L (62167) <.013 <.013	oate, water, fltrd 0.7u GF ug/L (82662) <.006 <.006 <.006 <.006 Fipronil sulfone water, fltrd, ug/L (62168) <.024 <.024	oton sulfone water, fltrd, ug/L (61640)	Fonofos oxon, water, fltrd, ug/L (61649)	sulfan sulfate water, fltrd, ug/L (61590)  <.014  Fonofos water, fltrd, ug/L (04095) <.003 <.003	water, fltrd 0.7u GF ug/L (82668)  <.004  Hexa- zinone, water, fltrd, ug/L (04025)  <.013 <.013	monoxon water, fltrd, ug/L (61644) <.0020 <.0020 <.0020 <.002 Ipro- dione, water, fltrd, ug/L (61593) <.387 <.538	water, fltrd, ug/L (82346) <.004 <.004 <.004 <.004 <.004  Isofen-phos, water, fltrd, ug/L (61594) <.003 <.003
Date  DEC 01 MAR 03 MAY 27 AUG 24  Date  DEC 01 MAR 03	DCPA, water fltrd 0.7u GF ug/L (82682) <.003 <.003 <.003 <.003 <.004 Ethoprop, water, fltrd 0.7u GF ug/L (82672)	Desulfinyl fipronil, water, fltrd, ug/L (62170)  <.012 <.012 <.012 <.012  fenamiphos sulfone water, fltrd, ug/L (61645) <.049	inon oxon, water, fltrd, ug/L (61638)  <.01 Fenamiphos sulfoxide, water, fltrd, ug/L (61646)	non, water, fltrd, ug/L (39572) <.005 <.005 <.005 <.005 Fenami- phos, water, fltrd, ug/L (61591) <.03	tophos, water fltrd, ug/L (38454)  <.08 <.08 <.08 <.08  Common time fly	drin, water, fltrd, ug/L (39381) <.009 <.009 <.009 <.009 Fipronil sulfide water, fltrd, ug/L (62167) <.013	oate, water, fltrd 0.7u GF ug/L (82662) < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .006 < .0	oton sulfone water, fltrd, ug/L (61640)  <.01  Fipronil, water, fltrd, ug/L (62166) <.016	foton, water, fltrd 0.7u GF ug/L (82677)  <.02  Fonofos oxon, water, fltrd, ug/L (61649)  <.003	sulfan sulfate water, fltrd, ug/L (61590)  <.014  Fonofos water, fltrd, ug/L (04095) <.003	water, fltrd 0.7u GF ug/L (82668)  < < < < < < < < <-	monoxon water, fltrd, ug/L (61644) <.0020 <.0020 <.0022 Ipro- dione, water, fltrd, ug/L (61593) <.387	water, fltrd, ug/L (82346) <.004 <.004 <.004 <.004 <.004  Isofen-phos, water, fltrd, ug/L (61594) <.003

# 353111077334402. County number, GR-085; L6 Lizzie N26q6—Continued

# WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Mala- oxon, water, fltrd, ug/L (61652)	Malathion, water, fltrd, ug/L (39532)	Meta- laxyl, water, fltrd, ug/L (61596)	Methialthion water, fltrd, ug/L (61598)	Methyl para- oxon, water, fltrd, ug/L (61664)	Methyl para- thion, water, fltrd 0.7u GF ug/L (82667)	Metola- chlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)	Molinate, water, fltrd 0.7u GF ug/L (82671)	Myclo- butanil water, fltrd, ug/L (61599)	Oxyfluorfen, water, fltrd, ug/L (61600)	Pendimethalin, water, fltrd 0.7u GF ug/L (82683)	Phorate oxon, water, fltrd, ug/L (61666)
DEC 01	<.030	<.027	<.005	<.006	<.03	<.015	<.006	<.006		<.008		<.022	<.10
MAR 03	<.030	<.027	<.005	<.006	<.03	<.015	<.006	<.006		<.008		<.022	<.10
MAY 27 AUG	<.030	<.027	<.005	<.006	<.03	<.015	.012	<.006		<.008		<.022	<.10
24	<.030	<.027	<.005	<.006	<.03	<.015	.009	<.007	<.003	<.008	<.007	<.022	<.10
Date	Phorate water fltrd 0.7u GF ug/L (82664)	Phosmet oxon, water, fltrd, ug/L (61668)	Phosmet water, fltrd, ug/L (61601)	Prometon, water, fltrd, ug/L (04037)	Prometryn, water, fltrd, ug/L (04036)	Propy- zamide, water, fltrd 0.7u GF ug/L (82676)	Propanil, water, fltrd 0.7u GF ug/L (82679)	Propargite, water, fltrd 0.7u GF ug/L (82685)	Sima- zine, water, fltrd, ug/L (04035)	Tebu- thiuron water fltrd 0.7u GF ug/L (82670)	Tefluthrin, water, fltrd, ug/L (61606)	Ter- bufos oxon sulfone water, fltrd, ug/L (61674)	Terbu- fos, water, fltrd 0.7u GF ug/L (82675)
DEC 01	<.011		<.008	<.01	<.005	<.004			<.005	<.02		<.07	<.02
MAR 03	<.011	<.05	<.008	<.01	<.005	<.004			<.005	<.02		<.07	<.02
MAY 27	<.011			<.01	<.005	<.004			<.005	<.02		<.07	<.02
AUG 24	<.011	<.05	<.008	<.01	<.005	<.004	<.011	<.02	<.005	<.02	<.008	<.07	<.02
			Date	Ter- buthyl- azine, water, fltrd, ug/L (04022)	Thiobencarb water fltrd 0.7u GF ug/L (82681)	trans- Propi- cona- zole, water, fltrd, ug/L (79847)	Tribu- phos, water, fltrd, ug/L (61610)	Tri- flur- alin, water, fltrd 0.7u GF ug/L (82661)	Di- chlor- vos, water fltrd, ug/L (38775)	Uranium natural water, fltrd, ug/L (22703)			
			DEC 01	<.01				<.009	<.01	.17			
			MAR 03	<.01				<.009	<.01				
			MAY 27	<.01				<.009	<.01				
			AUG 24	<.01	<.010	<.01	<.004	<.009	<.01				

353135077332701. County number, GR-110; L17.

LOCATION.--Lat 35°31'36", long 77°33'26", Hydrologic Unit 03020203, near Lizzie, 200 ft west of Secondary Road 1345. Owner: DENR (North Carolina Department of Environment and Natural Resources).

AQUIFER .-- Yorktown.

WELL CHARACTERISTICS.--Drilled observation well, depth 68 ft, diameter 2 in., screened interval from 41 to 61 ft.

INSTRUMENTATION.--Water-level recorder collecting data at 15-minute intervals. Satellite telemetry at station.

DATUM.--Land-surface datum is 72.50 ft above NGVD of 1929 (levels by North Carolina Geodetic Survey). Measuring point: Top of metal casing, 2.74 ft above land surface datum.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources and the U.S. Environmental Protection Agency as part of the Lizzie research site water-quality monitoring project.

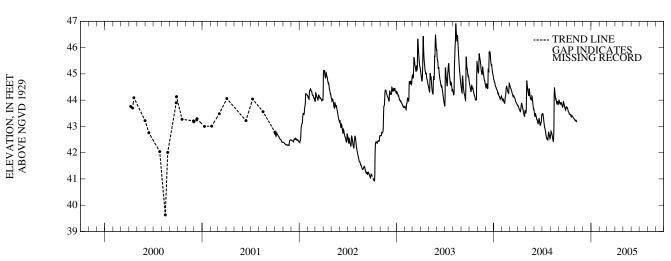
PERIOD OF RECORD.--April 2000 to November 2004 (discontinued). Continuous record began December 2000.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 46.97 ft above NGVD of 1929, Aug. 11, 12, 2003; lowest water level recorded, 40.91 ft above NGVD of 1929, Oct. 9, 2002.

#### ELEVATION ABOVE NGVD 1929, FEET WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43.74	43.23										
2	43.73	43.22										
3	43.70	43.21										
4	43.70	43.23										
5	43.65	43.24										
6	43.60	43.21										
7	43.57	43.20										
8	43.55	43.16										
9	43.53											
10	43.51											
	12 17											
11	43.47											
12	43.45											
13	43.46											
14	43.45											
15	43.46											
16	43.43											
17	43.43											
18	43.37											
19	43.42											
20	43.42											
21	43.41											
22	43.39											
22 23	43.37											
24	43.36											
25	43.34											
26	43.33											
27	43.31											
28	43.29											
29	43.29											
30	43.28											
31	43.26											

WTR YR 2005 MEAN 43.41 MAX 43.74 MIN 43.16



353135077332702. County number, GR-111; L18 Lizzie.

LOCATION.--Lat 35°31'36", long 77°33'26", Hydrologic Unit 03020203, near Lizzie, 200 ft west of Secondary Road 1345. Owner: DENR (North Carolina Department of Environment and Natural Resources).

AQUIFER .-- Surficial.

WELL CHARACTERISTICS.--Drilled observation well, depth 20 ft, diameter 2 in., screened interval from 10 to 20 ft.

INSTRUMENTATION .-- Water-level recorder collecting data at 15-minute intervals. Satellite telemetry at station.

DATUM.--Land-surface datum is 72.83 ft above NGVD of 1929 (levels by North Carolina Geodetic Survey). Measuring point: Top of metal casing, 3.26 ft above land-surface datum.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources and the U.S. Environmental Protection Agency as part of the Lizzie research site water-quality monitoring project.

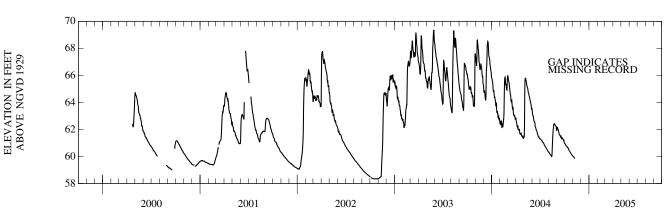
PERIOD OF RECORD.--April 2000 to November 2004 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 69.41 ft above NGVD of 1929, Aug. 11, 2003; lowest water level recorded, 58.33 ft above NGVD 0f 1929, Oct. 17, 2002.

#### ELEVATION ABOVE NGVD 1929, FEET WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60.95	60.02										
2	60.94	60.00										
2 3	60.92	59.97										
4	60.90	59.95										
5	60.83	59.93										
-												
6	60.78	59.91										
7	60.76	59.88										
8	60.76	59.85										
9	60.75											
10	60.73											
	<b>-</b>											
11	60.67											
12	60.66											
13	60.66											
14	60.61											
15	60.58											
16	(0.51											
16	60.51											
17	60.45											
18	60.42											
19	60.41											
20	60.38											
21	60.34											
22	60.34											
23	60.27											
	60.25											
24												
25	60.21											
26	60.17											
27	60.14											
28	60.14											
29	60.11											
30	60.08											
31	60.06											
21	00.00											

WTR YR 2005 MEAN 60.39 MAX 60.95 MIN 59.85



353027077340102. County number, GR-115; L20.

LOCATION.--Lat 35°30'28", long 77°34'00", Hydrologic Unit 03020203, .75 mi south of Secondary Road 1335, off Secondary Road 1342, near Maury.

#### WATER-LEVEL RECORDS

AQUIFER .-- Surficial.

WELL CHARACTERISTICS.--Drilled observation well, depth 22.7 ft, diameter 2 in., screened interval from 12.07 to 15.07 ft.

INSTRUMENTATION.--Water-level recorder collecting data at 60-minute intervals.

DATUM.--Land-surface datum is 79.27 ft above NGVD of 1929. Measuring point: Top of protective outer casing, 2.41 ft above land-surface datum.

REMARKS .-- Well is part of the National Water Quality Assessment Program (NAWQA).

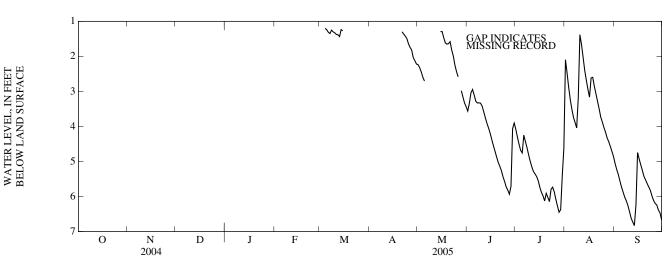
PERIOD OF RECORD.--March 2005 to September 2005.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded undetermined due to instrument failure; lowest water level recorded, 6.9 ft below land-surface datum, Sept. 13, 14, 2005.

# DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								2.2	3.6	4.1	2.1	5.1
2								2.3	3.3	4.3	2.5	5.2
3								2.4	3.0	4.5	2.9	5.4
4						1.2		2.6	2.9	4.7	3.2	5.6
5						1.2		2.7	3.1	4.8	3.5	5.7
-						1.2		,	0.1		0.0	0.,
6						1.3			3.3	4.3	3.7	5.9
7						1.3			3.3	4.4	3.9	6.0
8						1.3			3.3	4.6	4.0	6.1
9						1.3			3.3	4.8	3.2	6.3
10						1.3			3.4	5.0	1.4	6.4
11						1.4			3.6	5.2	1.7	6.6
12						1.4			3.8	5.3	2.0	6.7
13						1.4			3.9	5.4	2.4	6.8
14						1.2			4.0	5.4	2.7	6.2
15						1.3		1.3	4.2	5.6	2.9	4.7
												4.0
16								1.3	4.4	5.7	3.2	4.9
17								1.5	4.5	5.9	2.6	5.1
18								1.6	4.7	6.0	2.6	5.3
19								1.7	4.9	6.1	2.9	5.4
20								1.6	5.0	5.9	3.1	5.5
21							1.3	1.6	5.1	6.0	3.3	5.6
22 23							1.4	1.8	5.3	6.1	3.5	5.7
							1.4	2.0	5.4	5.8	3.7	5.8
24							1.5	2.3	5.6	5.7	3.9	6.0
25							1.6	2.4	5.7	5.9	4.0	6.1
26							1.7	2.6	5.8	6.1	4.2	6.2
27							1.8	2.0	5.9	6.3	4.3	6.2
28							2.0	3.0	5.7	6.5	4.4	6.4
29							2.1	3.2	4.1	6.4	4.6	6.5
30							2.2	3.3	3.9	5.4	4.7	6.7
31							2.2	3.3	3.9	4.6	4.7	0.7
31								3.4		4.0	4.9	

WTR YR 2005 MEAN 4.0 HIGH 1.2 LOW 6.8



# 353027077340102. County number GR-115. L20.—Continued

# WATER-QUALITY RECORDS

PERIOD OF RECORD.--1999, 2001, October 2004 to September 2005.

 $REMARKS.--Well\ is\ part\ of\ National\ Water\ Quality\ Assessment\ (NAWQA)\ Program.$ 

# WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Depth of well, feet below LSD (72008)	Depth to water level, feet below LSD (72019)	Alti- tude of land surface feet (72000)	Water level, depth below MP, feet (61055)	Flow rate, instan- taneous gal/min (00059)	Turbdty white light, det ang 90+/-30 corretd NTRU (63676)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)
MAR 03	1400	22.7	1.25	79.27	5.02	.30	2.5	759	.2	2	5.0	47	14.2
MAY 27	0830	22.7	2.83	79.27	6.60	.50	1.3	756	.2	2	4.9	50	15.1
AUG 24	1000	22.7	3.92	79.27	7.69	.30	.7	758	.1	1	5.0	49	19.0
Date	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium adsorp- tion ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alka- linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)
MAR 03	7	2.40	.325	.38	.6	3.73	4	4	.04	7.78	.1	13.0	.9
MAY 27	6	2.04	.325	.30	.7	3.96	7	8	.07	7.79	.1	12.2	1.1
AUG 24	7	2.14	.297	.41	.6	3.71	6	7	.08	7.86	.1	13.5	.9
Date	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Total nitro- gen, wat flt by anal ysis, mg/L (62854)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Aluminum, water, fltrd, ug/L (01106)	Anti- mony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryll- ium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)
MAR 03 MAY	39	<.04	<.06	<.008	E.05	.121							
27 AUG	43	<.04	<.06	<.008	E.04	.293							
24	40	<.04	<.06	<.008	<.06	.300	92	<.20	.4	16	.18	9	<.04
Date	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Lithium water, fltrd, ug/L (01130)	Mangan- ese, water, fltrd, ug/L (01056)	Molyb- denum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Stront- ium, water, fltrd, ug/L (01080)	Thall- ium, water, fltrd, ug/L (01057)
MAR 03 MAY				702			6.0						
27 AUG				2,160			5.6						
24	<.8	.451	<.4	1,870	E.07	1.4	5.5	<.4	1.55	<.4	<.2	15.3	<.04

# 353027077340102. County number GR-115. L20.—Continued

# WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

		**********	it QUALIT	1 D/11/1,	WILLIA I	Li III OCT	DER 2004	TO SEI II	DIVIDEIX 20	05 COIVI	HICED		
Date	Vanadium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)	1-Naph- thol, water, fltrd 0.7u GF ug/L (49295)	2,6-Di- ethyl- aniline water fltrd 0.7u GF ug/L (82660)	2Chloro -2',6-' diethyl acet- anilide wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)	2-Ethyl -6- methyl- aniline water, fltrd, ug/L (61620)	3,4-Di- chloro- aniline water fltrd, ug/L (61625)	3,5-Di- chloro- aniline water, fltrd, ug/L (61627)	4Chloro 2methyl phenol, water, fltrd, ug/L (61633)	Aceto- chlor, water, fltrd, ug/L (49260)	Ala- chlor, water, fltrd, ug/L (46342)	alpha- Endo- sulfan, water, fltrd, ug/L (34362)
MAR													
03 MAY													
27 AUG			<.09	<.006	<.005	<.006	<.004	<.004		<.006	<.006	<.005	
24	.6	5.1	<.09	<.006	<.005	<.006	<.004	<.004	<.004	<.006	<.006	<.005	<.005
Date	Atra- zine, water, fltrd, ug/L (39632)	Azin-phos-methyl oxon, water, fltrd, ug/L (61635)	Azin- phos- methyl, water, fltrd 0.7u GF ug/L (82686)	Ben- flur- alin, water, fltrd 0.7u GF ug/L (82673)	Carbaryl, water, fltrd 0.7u GF ug/L (82680)	Carbo- furan, water, fltrd 0.7u GF ug/L (82674)	Chlor- pyrifos oxon, water, fltrd, ug/L (61636)	Chlor- pyrifos water, fltrd, ug/L (38933)	cis- Per- methrin water fltrd 0.7u GF ug/L (82687)	cis- Propi- cona- zole, water, fltrd, ug/L (79846)	Cyanazine, water, fltrd, ug/L (04041)	Cyflu- thrin, water, fltrd, ug/L (61585)	lambda- Cyhalo- thrin, water, fltrd, ug/L (61595)
MAR 03													
MAY 27	<.007	<.07	<.050	<.010	<.041		<.06	<.005	<.006			<.027	
AUG													
24	<.007	<.07	<.050	<.010	<.041	<.020	<.06	<.005	<.006	<.008	<.018	<.027	<.009
Date	Cyper- methrin water, fltrd, ug/L (61586)	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170)	Diazinon, water, fltrd, ug/L (39572)	Dicrotophos, water fltrd, ug/L (38454)	Dieldrin, water, fltrd, ug/L (39381)	Dimethoate, water, fltrd 0.7u GF ug/L (82662)	Disulf- oton sulfone water, fltrd, ug/L (61640)	Disul- foton, water, fltrd 0.7u GF ug/L (82677)	Endo- sulfan sulfate water, fltrd, ug/L (61590)	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethion monoxon water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)
MAR													
03 MAY													
27 AUG	<.009	<.003	<.012	<.005	<.08	<.009	<.006					<.0020	<.004
24	<.009	<.003	<.012	<.005	<.08	<.009	<.006	<.01	<.02	<.014	<.004	<.002	<.004
Date	Etho- prop, water, fltrd 0.7u GF ug/L (82672)	Fenamiphos sulfone water, fltrd, ug/L (61645)	Fenami- phos sulf- oxide, water, fltrd, ug/L (61646)	Fenamiphos, water, fltrd, ug/L (61591)	Desulf- inyl- fipro- nil amide, wat flt ug/L (62169)	Fipronil sulfide water, fltrd, ug/L (62167)	Fipronil sulfone water, fltrd, ug/L (62168)	Fipronil, water, fltrd, ug/L (62166)	Fonofos water, fltrd, ug/L (04095)	Hexa- zinone, water, fltrd, ug/L (04025)	Iprodione, water, fltrd, ug/L (61593)	Isofen- phos, water, fltrd, ug/L (61594)	Mala- oxon, water, fltrd, ug/L (61652)
MAR 03													
MAY 27		<.049	<.04	<.03	<.029	<.013	<.024	<.016	<.003	<.013	<.538	<.003	<.030
AUG 24	<.005	<.049	<.04	<.03	<.029	<.013	<.024	<.016	<.003	<.013	<.538	<.003	<.030

# 353027077340102. County number GR-115. L20.—Continued

# WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Malathion, water, fltrd, ug/L (39532)	Meta- laxyl, water, fltrd, ug/L (61596)	Methi- althion water, fltrd, ug/L (61598)	Methyl para- oxon, water, fltrd, ug/L (61664)	Methyl para- thion, water, fltrd 0.7u GF ug/L (82667)	Metola- chlor, water, fltrd, ug/L (39415)	Metri- buzin, water, fltrd, ug/L (82630)	Molinate, water, fltrd 0.7u GF ug/L (82671)	Myclo- butanil water, fltrd, ug/L (61599)	Oxy- fluor- fen, water, fltrd, ug/L (61600)	Pendimethalin, water, fltrd 0.7u GF ug/L (82683)	Phorate oxon, water, fltrd, ug/L (61666)	Phorate water fltrd 0.7u GF ug/L (82664)
MAR 03													
MAY													
27 AUG	<.027	<.005	<.006	<.03	<.015	<.006	<.006		<.008		<.022	<.10	<.011
24	<.027	<.005	<.006	<.03	<.015	<.006	<.006	<.003	<.008	<.007	<.022	<.10	<.011
Date	Phosmet oxon, water, fltrd, ug/L (61668)	Phosmet water, fltrd, ug/L (61601)	Prometon, water, fltrd, ug/L (04037)	Prometryn, water, fltrd, ug/L (04036)	Propy- zamide, water, fltrd 0.7u GF ug/L (82676)	Propanil, water, fltrd 0.7u GF ug/L (82679)	Propargite, water, fltrd 0.7u GF ug/L (82685)	Sima- zine, water, fltrd, ug/L (04035)	Tebu- thiuron water fltrd 0.7u GF ug/L (82670)	Teflu- thrin, water, fltrd, ug/L (61606)	Ter- bufos oxon sulfone water, fltrd, ug/L (61674)	Terbu- fos, water, fltrd 0.7u GF ug/L (82675)	Terbuthylazine, water, fltrd, ug/L (04022)
Date MAR 03	oxon, water, fltrd, ug/L	water, fltrd, ug/L	ton, water, fltrd, ug/L	tryn, water, fltrd, ug/L	zamide, water, fltrd 0.7u GF ug/L	panil, water, fltrd 0.7u GF ug/L	gite, water, fltrd 0.7u GF ug/L	zine, water, fltrd, ug/L	thiuron water fltrd 0.7u GF ug/L	thrin, water, fltrd, ug/L	bufos oxon sulfone water, fltrd, ug/L	fos, water, fltrd 0.7u GF ug/L	buthyl- azine, water, fltrd, ug/L
MAR	oxon, water, fltrd, ug/L	water, fltrd, ug/L	ton, water, fltrd, ug/L	tryn, water, fltrd, ug/L	zamide, water, fltrd 0.7u GF ug/L	panil, water, fltrd 0.7u GF ug/L	gite, water, fltrd 0.7u GF ug/L	zine, water, fltrd, ug/L	thiuron water fltrd 0.7u GF ug/L	thrin, water, fltrd, ug/L	bufos oxon sulfone water, fltrd, ug/L	fos, water, fltrd 0.7u GF ug/L	buthyl- azine, water, fltrd, ug/L

Date	Thiobencarb water fltrd 0.7u GF ug/L (82681)	trans- Propi- cona- zole, water, fltrd, ug/L (79847)	Tribu- phos, water, fltrd, ug/L (61610)	Tri- flur- alin, water, fltrd 0.7u GF ug/L (82661)	Di- chlor- vos, water fltrd, ug/L (38775)	Uranium natural water, fltrd, ug/L (22703)
MAR 03 MAY						
27 AUG				<.009	<.01	
24	<.010	<.01	<.004	<.009	<.01	E.03

#### GREENE COUNTY—Continued

353103077333406. County number, GR-147; L55.

LOCATION.--Lat 35°31'04", long 77°33'33", Hydrologic Unit 03020203, near Lizzie, 20 ft north of Secondary Road 1335. Owner: DENR (North Carolina Department of Environment and Natural Resources).

AQUIFER .-- Yorktown.

WELL CHARACTERISTICS.--Drilled observation well, depth 70 ft, diameter 2 in., screened interval from 50 to 70 ft.

INSTRUMENTATION.--Water-level recorder collecting data at 15-minute intervals. Satellite telemetry at station.

DATUM.--Land-surface datum is 77.46 ft above NGVD of 1929 (levels by North Carolina Geodetic Survey). Measuring point: Top of metal casing, 1.41 ft above land-surface datum.

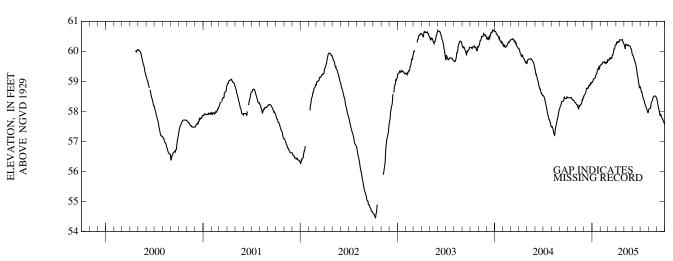
REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources and the U.S. Environmental Protection Agency as part of the Lizzie research site water-quality monitoring project. Minimum for period of record affected by pumping.

PERIOD OF RECORD .-- April 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 60.72 ft above NGVD of 1929, Dec. 24, 25, 2003; lowest water level recorded, 54.46 ft above NGVD of 1929, Oct. 10, 2002.

ELEVATION ABOVE NGVD 1929, FEET WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58.46	58.26	58.52	58.97	59.53	59.73	60.21	60.23	59.89	58.81	58.04	58.39
2	58.46	58.24	58.53	58.97	59.53	59.71	60.27	60.20	59.87	58.77	58.07	58.37
3	58.46	58.23	58.54	59.00	59.54	59.70	60.31	60.16	59.87	58.72	58.08	58.33
4	58.46	58.22	58.56	59.02	59.57	59.70	60.31	60.12	59.86	58.68	58.09	58.26
5	58.46	58.22	58.57	59.05	59.57	59.70	60.29	60.08	59.82	58.65	58.09	58.22
6 7 8 9 10	58.46 58.45 58.45 58.45 58.45	58.20 58.19 58.17 58.12 58.10	58.59 58.63 58.64 58.67 58.75	59.08 59.09 59.09 59.09 59.09	59.57 59.57 59.60 59.62 59.65	59.71 59.72 59.79 59.75 59.75	60.28 60.29 60.33 60.33	60.19 60.23 60.24 60.24 60.23	59.78 59.76 59.73 59.71 59.68	58.65 58.62 58.59 58.54 58.49	58.09 58.11 58.11 58.16 58.26	58.17 58.13 58.10 58.05 58.00
11	58.45	58.09	58.77	59.10	59.64	59.77	60.32	60.22	59.65	58.45	58.28	57.94
12	58.45	58.12	58.77	59.11	59.64	59.79	60.31	60.20	59.61	58.42	58.31	57.90
13	58.46	58.19	58.78	59.12	59.63	59.79	60.36	60.19	59.58	58.40	58.34	57.86
14	58.46	58.17	58.77	59.19	59.62	59.78	60.38	60.20	59.55	58.39	58.35	57.86
15	58.46	58.17	58.76	59.21	59.62	59.77	60.38	60.21	59.50	58.36	58.36	57.90
16	58.44	58.19	58.76	59.23	59.64	59.78	60.38	60.21	59.45	58.32	58.37	57.89
17	58.41	58.20	58.78	59.25	59.65	59.85	60.38	60.21	59.39	58.28	58.45	57.86
18	58.39	58.21	58.82	59.25	59.63	59.87	60.38	60.20	59.33	58.26	58.47	57.83
19	58.39	58.23	58.85	59.29	59.61	59.87	60.38	60.18	59.27	58.23	58.48	57.81
20	58.39	58.24	58.86	59.34	59.60	59.92	60.38	60.18	59.20	58.20	58.49	57.78
21	58.39	58.25	58.85	59.37	59.62	59.93	60.38	60.18	59.16	58.18	58.51	57.76
22	58.38	58.25	58.85	59.40	59.62	59.94	60.38	60.17	59.12	58.15	58.51	57.76
23	58.36	58.31	58.89	59.42	59.61	60.04	60.39	60.17	59.05	58.13	58.51	57.74
24	58.36	58.36	58.90	59.40	59.64	60.07	60.40	60.16	58.98	58.11	58.51	57.71
25	58.35	58.41	58.89	59.43	59.65	60.07	60.36	60.12	58.94	58.08	58.51	57.67
26 27 28 29 30 31	58.33 58.31 58.30 58.29 58.29 58.29	58.38 58.39 58.47 58.46 58.47	58.95 58.96 58.93 58.95 58.96 58.96	59.47 59.45 59.42 59.43 59.52 59.53	59.63 59.63 59.72 	60.08 60.11 60.20 60.21 60.21 60.21	60.33 60.32 60.27 60.26 60.25	60.10 60.09 60.08 60.03 59.98 59.93	58.89 58.82 58.77 58.81 58.82	58.05 58.02 57.99 57.96 57.96 57.98	58.51 58.51 58.50 58.48 58.46 58.44	57.67 57.66 57.61 57.60 57.56

WTR YR 2005 MEAN 59.05 MAX 60.40 MIN 57.56



#### **GROUND-WATER LEVELS**

# HAYWOOD COUNTY

352315082484401. Local number, NC-40; County number, HW-047.

LOCATION.--Lat 35° 23'16", long 82° 48'44", Hydrologic Unit 06010106, 2 mi south of Cruso on U.S. Highway 276 at Camp Hope. Owner: Blue Ridge Paper Products, Inc.

AQUIFER.--Unconfined saprolite derived from muscovite-biotite gneiss of Precambrian age.

WELL CHARACTERISTICS.--Dug observation well, depth 18.5 ft, diameter 12 in., cased to 18.5 ft, open end, backfilled with gravel from 4 to 18.5 ft.

INSTRUMENTATION.--Water-level recorder collecting data at 60-minute intervals. Satellite telemetry at station.

DATUM.--Land-surface datum is 3,148.26 ft above NGVD of 1929. Measuring point: Top of casing, 1.00 ft above land-surface datum.

REMARKS.--Well is part of climatic-effects network.

PERIOD OF RECORD.--December 1955 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 0.13 ft below land-surface datum, Sept. 17, 2004; lowest water level recorded, 6.99 ft below land-surface datum, Sept. 12, 13, 2002.

# DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

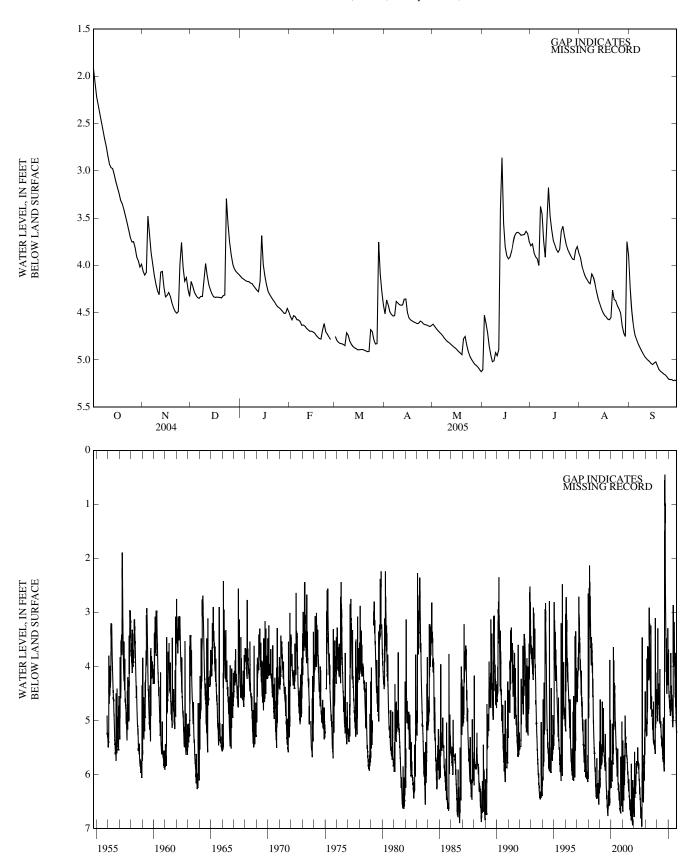
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.92	4.06	4.17	4.12	4.54	4.75	4.51	4.62	5.11	3.79	3.92	4.23
2	2.07	4.10	4.22	4.14	4.58	4.79	4.37	4.65	4.53	3.77	4.01	4.47
3	2.22	4.08	4.28	4.15	4.53	4.81	4.42	4.67	4.61	3.87	4.07	4.64
4	2.31	3.48	4.32	4.16	4.54	4.83	4.49	4.69	4.71	3.91	4.12	4.74
5	2.40	3.66	4.34	4.17	4.57	4.83	4.52	4.71	4.85	3.93	4.15	4.78
6	2.49	3.87	4.35	4.17	4.58	4.84	4.54	4.72	4.95	4.00	4.18	4.83
7	2.58	3.99	4.33	4.19	4.59	4.85	4.53	4.74	5.02	3.38	4.19	4.87
8	2.66	4.11	4.33	4.19	4.63	4.71	4.38	4.77	5.01	3.46	4.09	4.90
9	2.74	4.20	4.16	4.22	4.63	4.74	4.40	4.79	4.92	3.74	4.12	4.93
10	2.84	4.27	3.98	4.24	4.64	4.80	4.42	4.81	4.96	3.91	4.19	4.96
11	2.93	4.31	4.11	4.26	4.67	4.83	4.42	4.82	4.89	3.56	4.28	4.98
12	2.97	4.07	4.20	4.28	4.68	4.86	4.42	4.83	3.41	3.18	4.35	5.00
13	2.98	4.06	4.26	4.17	4.70	4.87	4.36	4.85	2.86	3.48	4.41	5.02
14	3.04	4.23	4.30	3.69	4.70	4.88	4.36	4.86	3.55	3.62	4.46	5.04
15	3.12	4.33	4.33	3.99	4.70	4.89	4.50	4.88	3.80	3.74	4.50	5.05
16	3.17	4.32	4.34	4.11	4.71	4.89	4.56	4.89	3.90	3.78	4.53	5.03
17	3.24	4.29	4.34	4.20	4.74	4.89	4.58	4.91	3.93	3.83	4.55	5.02
18	3.31	4.33	4.34	4.27	4.76	4.89	4.59	4.93	3.91	3.86	4.57	5.06
19	3.35	4.40	4.34	4.31	4.78	4.90	4.60	4.94	3.85	3.83	4.58	5.10
20	3.41	4.45	4.34	4.34	4.78	4.91	4.61	4.78	3.75	3.64	4.55	5.12
21	3.48	4.49	4.32	4.36	4.68	4.91	4.62	4.75	3.69	3.59	4.26	5.13
22	3.55	4.51	4.31	4.39	4.61	4.91	4.61	4.84	3.66	3.69	4.36	5.15
23	3.62	4.49	3.29	4.42	4.70	4.68	4.59	4.91	3.65	3.77	4.38	5.16
24	3.70	3.99	3.56	4.44	4.73	4.70	4.60	4.96	3.66	3.83	4.43	5.18
25	3.75	3.76	3.75	4.45	4.76	4.79	4.62	5.00	3.68	3.87	4.46	5.20
26 27 28 29 30 31	3.75 3.81 3.91 3.95 4.02 3.99	4.02 4.17 4.13 4.25 4.33	3.89 3.99 4.04 4.07 4.08 4.10	4.47 4.49 4.51 4.51 4.46 4.49	4.78    	4.83 4.83 3.75 4.09 4.28 4.42	4.63 4.63 4.64 4.65 4.64	5.02 5.05 5.06 5.08 5.10 5.12	3.68 3.67 3.64 3.67 3.75	3.90 3.93 3.94 3.84 3.80 3.87	4.50 4.64 4.72 4.75 3.75 3.89	5.21 5.21 5.22 5.21 5.22

WTR YR 2005 MEAN 4.30 HIGH 1.92 LOW 5.22

# GROUND-WATER LEVELS

## HAYWOOD COUNTY—Continued

 $352315082484401.\ Local\ number,\ NC-40;\ County\ number,\ HW-047.$ 



#### IREDELL COUNTY

353135080524201. County number, IR-130; DENR Langtree Research Station MW-2S (Regolith well).

LOCATION.--Lat 35°31'35", long 80°52'42", Hydrologic Unit 03050101, 2.5 mi northwest of Davidson, .1 mi north of Langtree Road at Davidson College Lake Campus. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Regolith (saprolitic quartz diorite).

WELL CHARACTERISTICS.--Drilled observation well, depth 28 ft, diameter 4 in., cased to 13 ft, screened interval from 13 to 28 ft, sand filter packed from 10 to 28 ft.

INSTRUMENTATION .-- Water-level recorder collecting data at 60-minute intervals. Satellite telemetry at station.

DATUM.--Land-surface datum is 803.08 ft above NGVD of 1929 (levels by DENR). Measuring point: Top of instrument shelter floor, 1.08 ft above land-surface datum.

REMARKS.--Well is part of Piedmont/Mountains ground-water study.

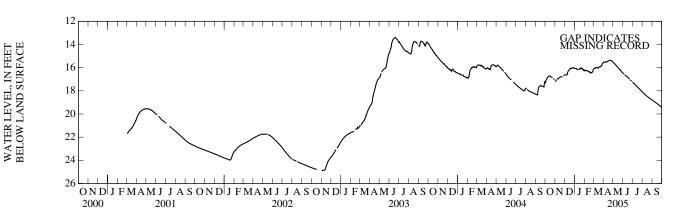
PERIOD OF RECORD .-- March 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 13.39 ft below land-surface datum, June 19, 2003; lowest water level recorded, 24.91 ft below land-surface datum, Nov. 5, 2002.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.33	17.13	16.63	16.06	16.27 16.28	16.12 16.09	15.56	15.53	16.48	17.23	18.10	18.81 18.83
2	17.25 17.15	17.13	16.63 16.61	16.07 16.07	16.28	16.09	15.52 15.54	15.55 15.59	16.50 16.52	17.26 17.31	18.13 18.15	18.85
3 4	17.13	17.10	16.62	16.07	16.23	16.07	15.53	15.62	16.55	17.31	18.13	18.87
5	16.98	17.03	16.63	16.06	16.25	16.03	15.53	15.66	10.55	17.35	18.21	18.89
6	16.94		16.61	16.07	16.27	16.04	15.52	15.66	16.61	17.37	18.24	18.91
7	16.89	16.92	16.59	16.13	16.25	16.00	15.49	15.68	16.63	17.39	18.27	18.93
8	16.85	16.94	16.62	16.14	16.25	16.01	15.48	15.72	16.65	17.43	18.30	18.94
9 10	16.81	16.98 16.99	16.56 16.40	16.17	16.24 16.27	16.02 15.99	15.51 15.52	15.75	16.68	17.46	18.32	18.96
10	16.79	16.99	16.40	16.16	10.27	15.99	15.52	15.78	16.70	17.49	18.35	18.98
11	16.78	16.97	16.35	16.19	16.30	15.97	15.50	15.82	16.73	17.52	18.37	19.01
12	16.74	16.92	16.28		16.31	15.98	15.49	15.86	16.74	17.54	18.39	19.03
13	16.72	16.88	16.24		16.34	16.00	15.49	15.89	16.76	17.57	18.42	19.05
14	16.72	16.87	16.22	16.22	16.35	16.03	15.45	15.90	16.78	17.59	18.44	19.07
15	16.72	16.84	16.20	16.16	16.37	16.05	15.45	15.93	16.80	17.62	18.47	19.09
16	16.74	16.81	16.16	16.08	16.35	16.02	15.44	15.97	16.82	17.65	18.49	19.11
17	16.77	16.80	16.12	16.09	16.39	15.97	15.41	16.01	16.85	17.68	18.51	19.13
18	16.78	16.79	16.08	16.10	16.43	15.95	15.39	16.04	16.89	17.71	18.53	19.15
19	16.78	16.78	16.06	16.05	16.45	15.93	15.38	16.07	16.92	17.74	18.55	19.18
20	16.80	16.78	16.09	16.03	16.46	15.92	15.37	16.08	16.95	17.77	18.57	19.20
21	16.82	16.80	16.07	16.06	16.43	15.93	15.37	16.13	16.97	17.79	18.59	19.22
22	16.85	16.80	16.06	16.04	16.44	15.93	15.36	16.15	16.99	17.81	18.61	19.24
23	16.86	16.79	16.02	16.10	16.45	15.88	15.35	16.16		17.85	18.63	19.26
24	16.87		16.02	16.10	16.40	15.87	15.37	16.20	17.05	17.88	18.66	19.29
25		16.72	16.01	16.09	16.37	15.86	15.40	16.25	17.08	17.91	18.69	19.31
26	16.95		16.00	16.09	16.38	15.86	15.41	16.28	17.11	17.93	18.70	19.32
27	16.97	16.71	16.05	16.17	16.35	15.83	15.42	16.32	17.14	17.96	18.71	19.35
28	17.01		16.05	16.23	16.17	15.69	15.47	16.35	17.16	17.99	18.73	19.37
29	17.01	16.67	16.02	16.20		15.66	15.46	16.39		18.03	18.75	19.40
30		16.64	16.03	16.18		15.62	15.48	16.42		18.05	18.76	19.43
31	17.07		16.04	16.23		15.60		16.45		18.08	18.78	

WTR YR 2005 MEAN 16.83 HIGH 15.35 LOW 19.43



353135080524202. County number, IR-131; DENR Langtree Research Station MW-2I (Transition zone well).

LOCATION.—Lat 35°31'36", long 80°52'42", Hydrologic Unit 03050101, 2.5 mi northwest of Davidson, .1 mi north of Langtree Road at Davidson College Lake Campus. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Transition zone (weathered and competent quartz diorite).

WELL CHARACTERISTICS.--Drilled observation well, depth 48 ft, diameter 4 in., cased to 33 ft, screened interval from 33 to 48 ft.

INSTRUMENTATION.--Water-level recorder collecting data at 60-minute intervals. Satellite telemetry at station.

DATUM.--Land-surface datum is 802.89 ft above NGVD of 1929 (levels by DENR). Measuring point: Top of instrument shelter floor, 0.93 ft above land-surface datum.

REMARKS.--Well is part of Piedmont/Mountains ground-water study.

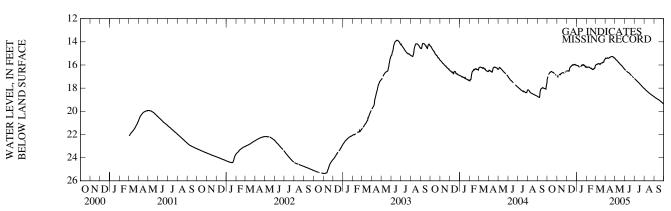
PERIOD OF RECORD .-- March 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 13.85 ft below land-surface datum, June 19, 2003; lowest water level recorded, 25.38 ft below land-surface datum, Nov. 3, 5, 6, 2002.

# DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	17.19 17.11 17.00  16.83	17.00 17.03 16.89	16.52 16.52 16.51 16.52 16.53	16.04 16.05 16.06 16.06 16.05	16.21 16.23 16.19 16.17 16.18	16.02 16.00 15.98 15.96 15.94	15.45 15.40 15.43 15.43 15.43	15.44 15.47 15.51 15.55 15.58	16.40 16.42 16.44 16.46	17.16 17.19 17.23 17.26 17.28	18.05 18.07 18.10 18.13 18.16	18.76 18.77 18.80 18.82 18.84
6 7 8 9 10	16.78 16.74 16.69 16.66 16.63	16.78 16.81 16.84 16.86	16.52 16.50 16.53 16.46 16.29	16.06 16.12 16.13 16.18 16.18	16.19 16.18 16.18 16.18 16.20	15.95 15.91 15.91 15.91 15.89	15.42 15.39 15.38 15.41 15.42	15.58 15.60 15.63 15.67 15.70	16.52 16.56 16.58 16.61 16.63	17.31 17.33 17.36 17.39 17.42	18.18 18.21 18.24 18.26 18.28	18.86 18.88 18.89 18.91 18.93
11 12 13 14 15	16.62 16.59 16.56 16.56 16.57	16.84 16.78 16.74 16.73 16.71	16.23 16.18 16.14 16.13 16.11	  16.17 16.10	16.23 16.24 16.27 16.28 16.30	15.88 15.88 15.90 15.94 15.96	15.42 15.40 15.39 15.34 15.34	15.74 15.78 15.81 15.82 15.85	16.64 16.66 16.67 16.70 16.71	17.45 17.47 17.49 17.52 17.56	18.31 18.33 18.35 18.37 18.40	18.95 18.96 18.98 18.99 19.01
16 17 18 19 20	16.60 16.63 16.64 16.64 16.65	16.68 16.67 16.67 16.66 16.67	16.07 16.04 16.01 15.98 16.02	16.02 16.04 16.05 15.99 15.98	16.28 16.33 16.36 16.38 16.39	15.93 15.87 15.84 15.84 15.83	15.33 15.31 15.29 15.29 15.28	15.89 15.93 15.96 15.98 16.00	16.75 16.78 16.81 16.85 16.88	17.58 17.62 17.65 17.68 17.70	18.43 18.45 18.47 18.50 18.52	19.03 19.05 19.08 19.10 19.12
21 22 23 24 25	16.68 16.71 16.72 16.73	16.69 16.68 16.68  16.61	16.01 16.00 15.96 15.97 15.95	16.00 15.98 16.03 16.04 16.02	16.35 16.36 16.37 16.31 16.28	15.83 15.83 15.78 15.78 15.76	15.28 15.27 15.26 15.28 15.31	16.05 16.06 16.08 16.12 16.16	16.90 16.92  16.98 17.01	17.73 17.76 17.79 17.83 17.85	18.53 18.55 18.57 18.60 18.62	19.14 19.17 19.19 19.22 19.25
26 27 28 29 30 31	16.82 16.84 16.88 16.88  16.94	16.59  16.55 16.52	15.95 16.00 16.00 15.98 16.00 16.02	16.03 16.12 16.17 16.15 16.12 16.18	16.29 16.27 16.08 	15.76 15.74 15.58 15.57 15.53 15.50	15.32 15.34 15.39 15.39 15.40	16.20 16.23 16.27 16.31 16.33 16.37	17.04 17.07 17.10 	17.88 17.91 17.94 17.98 18.00 18.02	18.63 18.65 18.67 18.70 18.71 18.73	19.26 19.29 19.31 19.34 19.37

WTR YR 2005 MEAN 16.75 HIGH 15.26 LOW 19.37



353135080524203. County number, IR-132; DENR Langtree Research Station MW-2D (Bedrock well).

LOCATION.—Lat 35°31'36", long 80°52'42", Hydrologic Unit 03050101, 2.5 mi northwest of Davidson, .1 mi north of Langtree Road at Davidson College Lake Campus. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Quartz diorite bedrock.

WELL CHARACTERISTICS.--Drilled observation well, depth 400 ft, diameter 6 in., cased to 53 ft, open hole from 53 to 400 ft.

INSTRUMENTATION.--Water-level recorder collecting data at 60-minute intervals. Satellite telemetry at station.

DATUM.--Land-surface datum is 802.69 ft above NGVD of 1929 (levels by DENR). Measuring point: Top of instrument shelter floor, 1.40 ft above land-surface datum.

REMARKS.--Well is part of Piedmont/Mountains ground-water study.

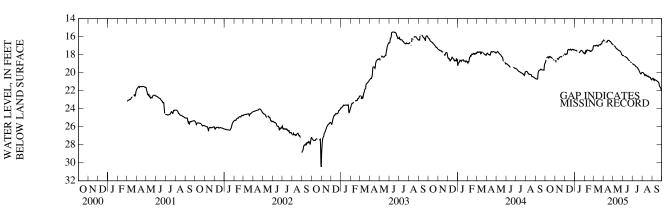
PERIOD OF RECORD .-- March 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 15.46 ft below land-surface datum, June 12, 13, 14, 2003; lowest water level recorded, 31.72 ft below land-surface datum, Oct. 30, 2002.

# DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	18.92 18.81 18.58  18.37	18.78 18.80 18.62	17.91 17.92 18.00 17.99 17.97	17.49 17.51 17.52 17.51 17.51	17.90 17.91 17.89 17.64 17.56	17.01 17.00 17.01 17.01 16.99	16.44 16.38 16.43 16.45 16.46	16.89 16.94  16.99 17.04	18.11 18.10 18.10 18.10	18.95 19.02 19.06 19.07 19.10	19.97 19.98 19.99 20.03 20.08	20.66 20.65 20.62 20.69 20.79
6 7 8 9 10	18.33 18.30 18.27 18.24 18.25	18.38 18.43 18.49 18.53	17.94 17.90 17.92 17.85 17.53	17.51 17.58 17.58 17.64	17.70 17.69 17.52 17.49 17.48	17.03 17.00 16.98 17.01 16.97	16.56 16.59 16.60	17.04 17.07 17.12 17.19 17.26	18.16 18.20 18.21 18.25 18.27	19.12 19.14 19.15 19.19 19.24	20.12 20.18 20.29 20.23 20.22	20.72 20.72 20.84 20.78 20.78
11 12 13 14 15	18.34 18.26 18.31 18.23 18.19	18.50 18.43 18.35 18.33 18.28	17.46 17.42 17.41 17.46 17.48	   17.82	17.50 17.50 17.52 17.53 17.56	16.94 16.95 16.99 17.04 17.07	16.61 16.60 16.58 16.44 16.42	17.28 17.32 17.37 17.37 17.38	18.27 18.29 18.32 18.35 18.41	19.29 19.34 19.35 19.37 19.39	20.23 20.31 20.27 20.31 20.38	20.81 20.84 20.85 20.87 20.90
16 17 18 19 20	18.21 18.25 18.30 18.28 18.29	18.25 18.23 18.22 18.21 18.21	17.45 17.43 17.41 17.39 17.47	17.73 17.69 17.68 17.61 17.57	17.54 17.58 17.60 17.63 17.64	17.03 16.95 16.92 16.90 16.90	16.42 16.41 16.41 16.44 16.48	17.42 17.47 17.50 17.53 17.52	18.46 18.51 18.55 18.60 18.63	19.42 19.46 19.56 19.60 19.65	20.41 20.38 20.36 20.37 20.39	20.92 20.99 21.00 21.02 21.04
21 22 23 24 25	18.33 18.37 18.42 18.42	18.23 18.23 18.21  18.12	17.51 17.50 17.44 17.44 17.42	17.53 17.51 17.56 17.57 17.59	17.59 17.60 17.60 17.52 17.46	16.92 16.92 16.83 16.83 16.81	16.52 16.54 16.54 16.59 16.65	17.56 17.58 17.60 17.64 17.70	18.65 18.70  18.78 18.81	19.71 19.82 19.88 19.97 20.03	20.48 20.52 20.50 20.48 20.50	21.08 21.22 21.44 21.51 21.58
26 27 28 29 30 31	18.53 18.57 18.59 18.61	18.07  17.98 17.93	17.40 17.46 17.46 17.43 17.45 17.46	17.61 17.70 17.79 17.77 17.76 17.85	17.45 17.41 17.14 	16.81 16.79 16.53 16.52 16.50 16.47	16.72 16.76 16.82 16.82 16.84	17.75 17.83 17.98 18.01 18.05 18.08	18.83 18.86 18.88 	20.09 20.14 20.13 20.04 19.99 19.98	20.51 20.67 20.68 20.77 20.79 20.73	21.64 21.70 21.75 21.96 21.92

WTR YR 2005 MEAN 18.34 HIGH 16.38 LOW 21.96



#### **GROUND-WATER LEVELS**

#### IREDELL COUNTY—Continued

353144080524601. County number, IR-133; DENR Langtree Research Station GP-1.

LOCATION.--Lat 35°31'44", long 80°52'47", Hydrologic Unit 03050101, .3 mi north of Langtree Road, .9 mi west of Interstate 77 on Lake Campus Road. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Regolith (saprolitic Quartz Diorite).

WELL CHARACTERISTICS.--Drilled observation well, depth 38.5 ft, diameter 0.5 in., cased to 29.5 ft, open hole from 29.5 to 38.5 ft.

INSTRUMENTATION .-- Measured periodically with steel tape. (by DENR and USGS)

DATUM.--Land-surface datum is 805.10 ft above NGVD of 1929. Measuring point: Top of PVC casing, 2.85 ft below land-surface datum.

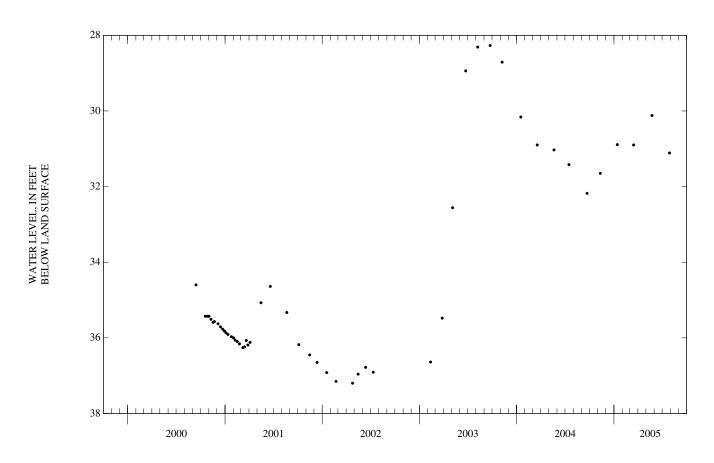
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--September 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.27 ft below land-surface datum, Sept. 23, 2003; lowest water level measured, 37.20 ft below land-surface datum, April 24, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

D.A.TE	WATER	DATE	WATER	D.A.MID	WATER	D.A.MID	WATER	D.A.TE	WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
NOV 10	31.65	JAN 13	30.89	MAR 15	30.90	MAY 23	30.12	JUL 28	31.11



353148080524901. County number, IR-134; DENR Langtree Research Station GP-2.

LOCATION.--Lat 35°31'48", long 80°52'49", Hydrologic Unit 03050101, .3 mi north of Langtree Road, .9 mi west of Interstate 77, on Lake Campus road. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Regolith (saprolitic Quartz Diorite).

WELL CHARACTERISTICS.--Drilled observation well, depth 36 ft, diameter 0.5 in., cased to 27 ft, open hole from 27 to 36 ft.

INSTRUMENTATION .-- Measured periodically with steel tape. (by DENR and USGS)

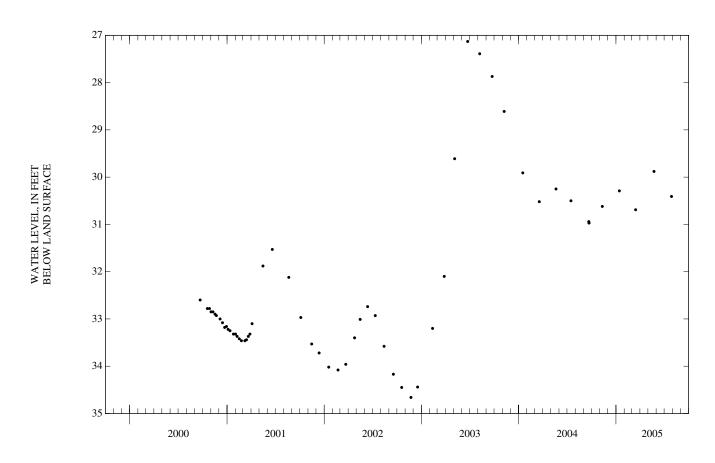
DATUM.--Land-surface datum is 793.48 ft above NGVD of 1929. Measuring point: Top of PVC casing, 3.15 ft below land-surface datum.

REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--September 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.13 ft below land-surface datum, June 23, 2003; lowest water level measured, 34.66 ft below land-surface datum, Nov. 22, 2002.

	WATER								
DATE	LEVEL								
NOV 10	30.62	JAN 13	30.29	MAR 15	30.69	MAY 23	29.88	JUL 28	30.41



353146080524601. County number, IR-135; DENR Langtree Research Station GP-3.

LOCATION.--Lat 35°31'47", long 80°52'47", Hydrologic Unit 03050101, .3 mi north of Langtree Road, .9 mi west of Interstate 77 on Lake Campus Road. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Regolith (saprolitic Quartz Diorite).

WELL CHARACTERISTICS.--Drilled observation well, depth 31 ft, diameter 0.5 in., cased to 22 ft, open hole from 22 to 31 ft.

INSTRUMENTATION.--Measured periodically with steel tape. (by DENR and USGS)

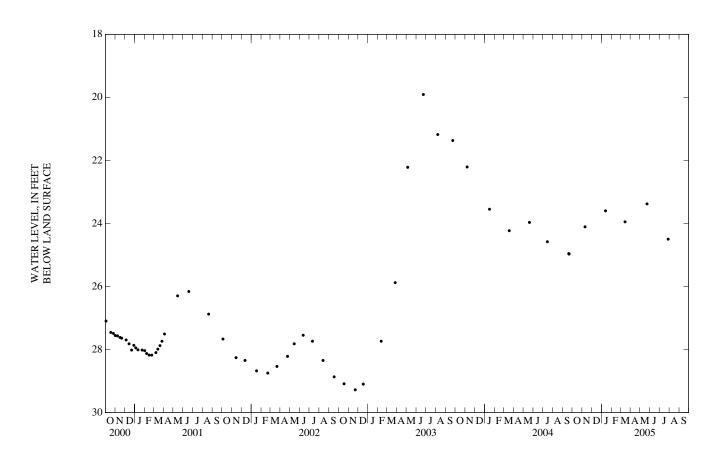
DATUM.--Land-surface datum is 791.04 ft above NGVD of 1929. Measuring point: Top of PVC casing, 2.76 ft below land-surface datum.

REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--October 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.91 ft below land-surface datum, June 23, 2003; lowest water level measured, 29.28 ft below land-surface datum, Nov. 22, 2002.

	WATER								
DATE	LEVEL								
NOV 10	24.11	JAN 13	23.60	MAR 15	23.95	MAY 23	23.38	JUL 28	24.50



353145080524401. County number, IR-136; DENR Langtree Research Station GP-4.

LOCATION.--Lat 35°31'45", long 80°52'44", Hydrologic Unit 03050101, .3 mi north of Langtree Road, .9 mi west of Interstate 77 on Lake Campus Road. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Regolith (saprolitic Quartz Diorite).

WELL CHARACTERISTICS.--Drilled observation well, depth 34 ft, diameter 0.5 in., cased to 25 ft, open hole from 25 to 34 ft.

INSTRUMENTATION .-- Measured periodically with steel tape. (by DENR and USGS)

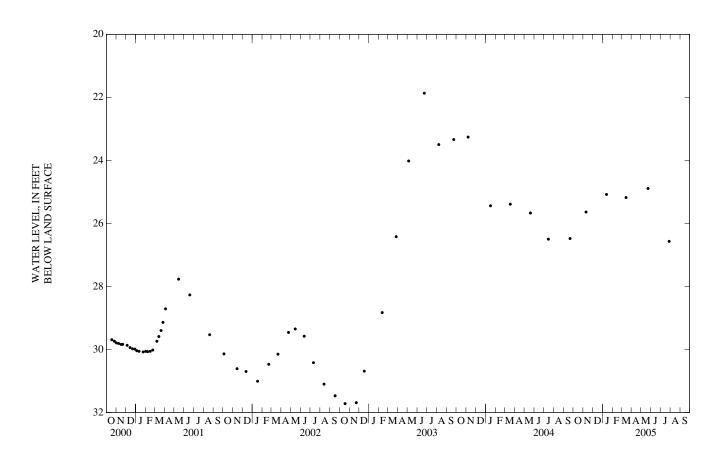
DATUM.--Land-surface datum is 793.08 ft above NGVD of 1929. Measuring point: Top of PVC casing, 2.68 ft below land-surface datum.

REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--October 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.87 ft below land-surface datum, June 23, 2003; lowest water level measured, 31.72 ft below land-surface datum, Oct. 18, 2002.

	WATER		WATER		WATER		WATER		WATER	
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	
NOV 10	25.64	IAN 13	25.08	MAR 15	25.18	MAY 23	24.89	Ш. 28	26.57	



353149080524801. County number, IR-137; DENR Langtree Research Station GP-5.

LOCATION.--Lat 35°31'50", long 80°52'48", Hydrologic Unit 03050101, .3 mi north of Langtree Road, .9 mi west of Interstate 77 on Lake Campus Road. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Regolith (saprolitic Quartz Diorite).

WELL CHARACTERISTICS.--Drilled observation well, depth 32 ft, diameter 0.5 in., cased to 23 ft, open hole from 23 to 32 ft.

INSTRUMENTATION.--Measured periodically with steel tape. (by DENR and USGS)

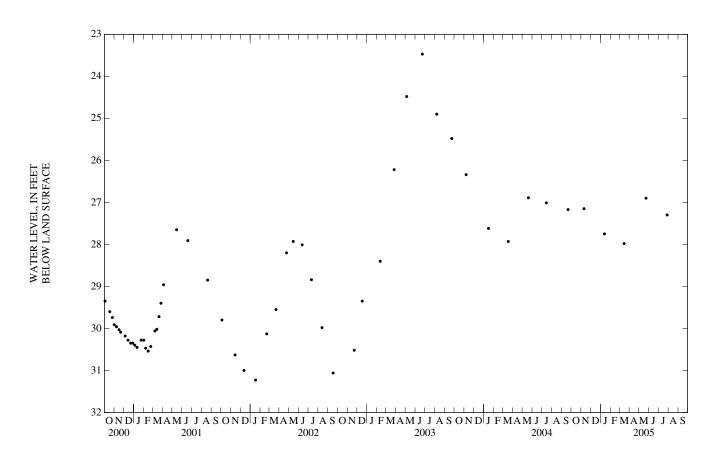
DATUM.--Land-surface datum is 786.81 ft above NGVD of 1929. Measuring point: Top of PVC casing, 2.20 ft below land-surface datum.

REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--October 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.47 ft below land-surface datum, June 23, 2003; lowest water level measured, 31.23 ft below land-surface datum, Jan. 17, 2002.

	WATER								
DATE	LEVEL								
NOV 10	27.15	JAN 13	27.75	MAR 15	27.98	MAY 23	26.90	JUL 28	27.30



353150080524701. County number, IR-138; DENR Langtree Research Station GP-6.

LOCATION.--Lat 35°31'51", long 80°52'48", Hydrologic Unit 03050101, .3 mi north of Langtree Road, .9 mi west of Interstate 77 on Lake Campus Road. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Regolith (saprolitic Quartz Diorite).

WELL CHARACTERISTICS.--Drilled observation well, depth 25 ft, diameter 0.5 in., cased to 23 ft, open hole from 16 to 25 ft.

INSTRUMENTATION.--Measured periodically with steel tape. (by DENR and USGS)

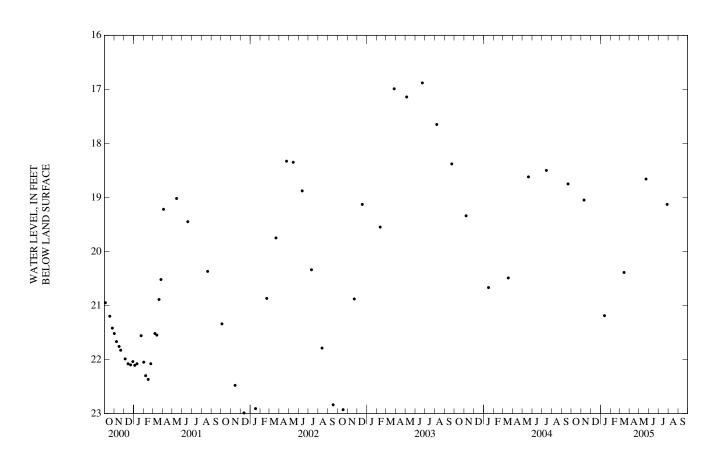
DATUM.--Land-surface datum is 776.58 ft above NGVD of 1929. Measuring point: Top of PVC casing, -0.16 ft below land-surface datum.

REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD .-- October 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.14 ft below land-surface datum, May 5, 2003; lowest water level measured, 22.99 ft below land-surface datum, Dec. 12, 2001.

	WATER								
DATE	LEVEL								
NOV 10	19.05	JAN 13	21.19	MAR 15	20.39	MAY 23	18.66	JUL 28	19.13



353151080524701. County number, IR-139; DENR Langtree Research Station GP-7.

LOCATION.--Lat 35°31'52", long 80°52'47", Hydrologic Unit 03050101, .3 mi north of Langtree Road, .9 mi west of Interstate 77 on Lake Campus Road. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Regolith (saprolitic Quartz Diorite).

WELL CHARACTERISTICS.--Drilled observation well, depth 18 ft, diameter 0.5 in., cased to 9 ft, open hole from 9 to 18 ft.

INSTRUMENTATION .-- Measured periodically with steel tape. (by DENR and USGS)

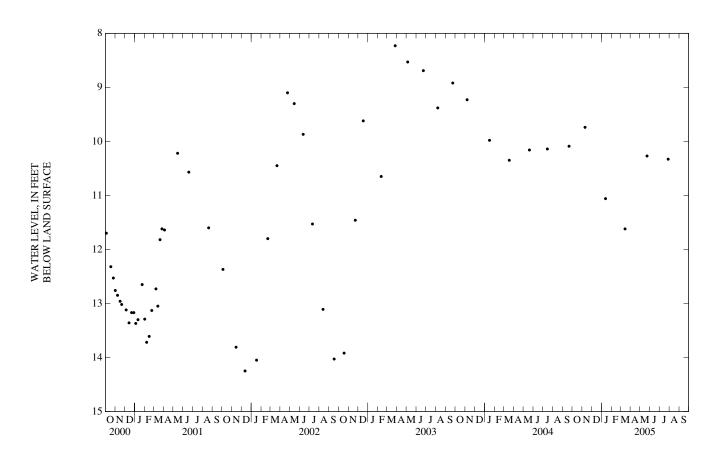
DATUM.--Land-surface datum is 767.37 ft above NGVD of 1929. Measuring point: Top of PVC casing, -0.17 ft below land-surface datum.

REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD .-- October 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.23 ft below land-surface datum, March 27, 2003; lowest water level measured, 14.25 ft below land-surface datum, Dec. 12, 2001.

	WATER								
DATE	LEVEL								
NOV 10	9.74	JAN 13	11.06	MAR 15	11.62	MAY 23	10.27	JUL 28	10.33



353151080524501. County number, IR-140; DENR Langtree Research Station GP-8.

LOCATION.--Lat 35°31'51", long 80°52'45", Hydrologic Unit 03050101, .3 mi north of Langtree Road, .9 mi west of Interstate 77 on Lake Campus Road. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Regolith (saprolitic Quartz Diorite).

WELL CHARACTERISTICS.--Drilled observation well, depth 18 ft, diameter 0.5 in., cased to 7 ft, open hole from 7 to 18 ft.

INSTRUMENTATION .-- Measured periodically with steel tape. (by DENR and USGS)

DATUM.--Land-surface datum is 768.04 ft above NGVD of 1929. Measuring point: Top of PVC casing, -0.18 ft below land-surface datum.

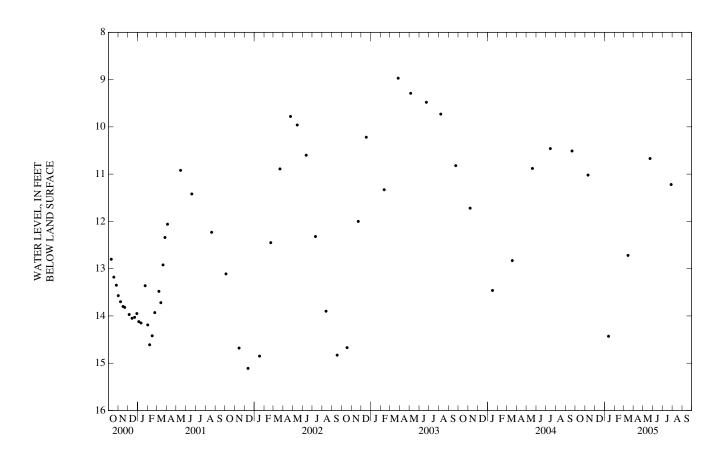
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD .-- October 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.97 ft below land-surface datum, March 27, 2003; lowest water level measured, 15.11 ft below land-surface datum, Dec. 12, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

	WATER		WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
NOV 10	11.02	JAN 13	14 43	MAR 15	12.72	MAY 23	10.67	Ш. 28	11.22



353147080524401. County number, IR-141; DENR Langtree Research Station WL-1.

LOCATION.--Lat 35°31'48", long 80°52'44", Hydrologic Unit 03050101, .3 mi north of Langtree Road, .9 mi west of Interstate 77 on Lake Campus Road. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Regolith (saprolitic Quartz Diorite).

WELL CHARACTERISTICS.--Drilled observation well, depth 35 ft, diameter 1 in., cased to 20 ft, open hole from 20 to 35 ft.

INSTRUMENTATION .-- Measured periodically with steel tape. (by DENR and USGS)

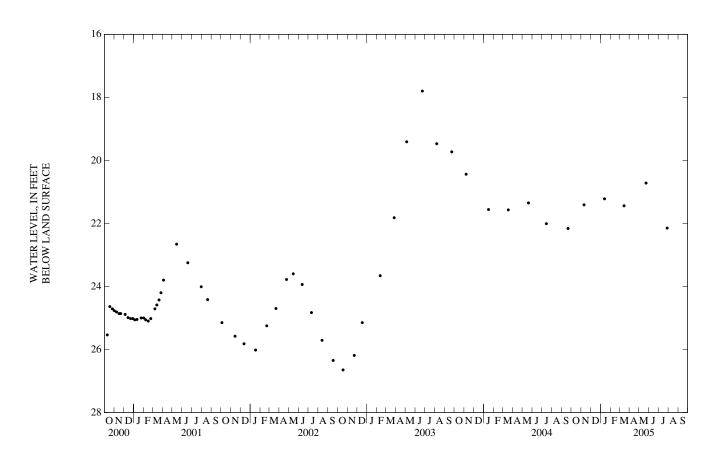
DATUM.--Land-surface datum is 784.27 ft above NGVD of 1929. Measuring point: Top of PVC casing, 2.90 ft below land-surface datum.

REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--October 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.80 ft below land-surface datum, June 23, 2003; lowest water level measured, 26.65 ft below land-surface datum, Oct. 18, 2002.

	WATER								
DATE	LEVEL								
NOV 10	21.41	JAN 13	21.22	MAR 15	21.44	MAY 23	20.72	JUL 28	22.15



353148080524601. County number, IR-142; DENR Langtree Research Station WL-2.

LOCATION.--Lat 35°31'48", long 80°52'46", Hydrologic Unit 03050101, .3 mi north of Langtree Road, .9 mi west of Interstate 77 on Lake Campus Road. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Regolith (saprolitic Quartz Diorite).

WELL CHARACTERISTICS.--Drilled observation well, depth 26 ft, diameter 1 in., cased to 16 ft, open hole from 16 to 26 ft.

INSTRUMENTATION .-- Measured periodically with steel tape. (by DENR and USGS)

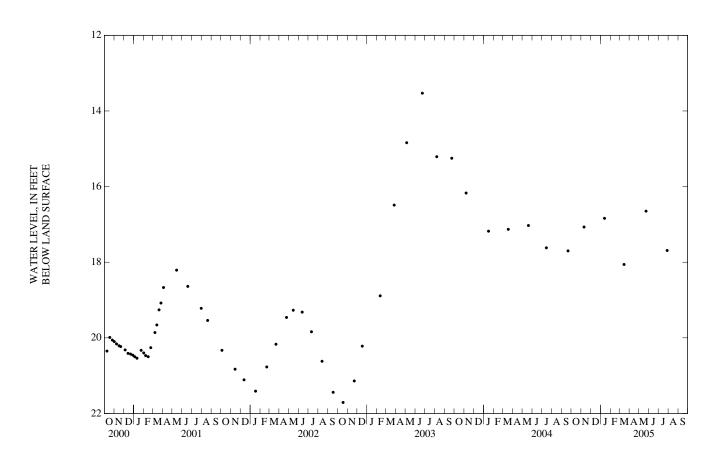
DATUM.--Land-surface datum is 780.74 ft above NGVD of 1929. Measuring point: Top of PVC casing, 2.86 ft below land-surface datum.

REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--October 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.53 ft below land surface datum, June 23, 2003; lowest water level measured, 21.71 ft below land-surface datum, Oct. 18, 2002.

	WATER								
DATE	LEVEL								
NOV 10	17.07	JAN 13	16.84	MAR 15	18.06	MAY 23	16.65	JUL 28	17.69



353150080524501. County number, IR-143; DENR Langtree Research Station WL-3.

LOCATION.--Lat 35°31'50", long 80°52'46", Hydrologic Unit 03050101, .3 mi north of Langtree Road, .9 mi west of Interstate 77 on Lake Campus Road. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Regolith (saprolitic Quartz Diorite).

WELL CHARACTERISTICS.--Drilled observation well, depth 20 ft, diameter 1 in., cased to 10 ft, open hole from 10 to 20 ft.

INSTRUMENTATION .-- Measured periodically with steel tape. (by DENR and USGS)

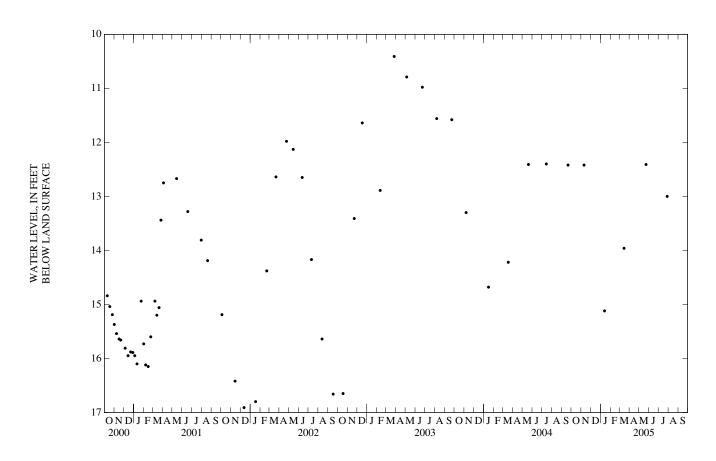
DATUM.--Land-surface datum is 770.46 ft above NGVD of 1929. Measuring point: Top of PVC casing, -0.20 ft below land-surface datum.

REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--October 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.41 ft below land-surface datum, March 27, 2003; lowest water level measured, 16.91 ft below land-surface datum, Dec. 12, 2001.

	WATER								
DATE	LEVEL								
NOV 10	12.42	JAN 13	15.12	MAR 15	13.96	MAY 23	12.41	JUL 28	13.00



353149080524401. County number, IR-144; DENR Langtree Research Station WL-4.

LOCATION.--Lat 35°31'49", long 80°52'45", Hydrologic Unit 03050101, .3 mi north of Langtree Road, .9 mi west of Interstate 77 on Lake Campus Road. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Regolith (saprolitic Quartz Diorite).

WELL CHARACTERISTICS.--Drilled observation well, depth 30 ft, diameter 1 in., cased to 17 ft, open hole from 17 to 30 ft.

INSTRUMENTATION .-- Measured periodically with steel tape. (by DENR and USGS)

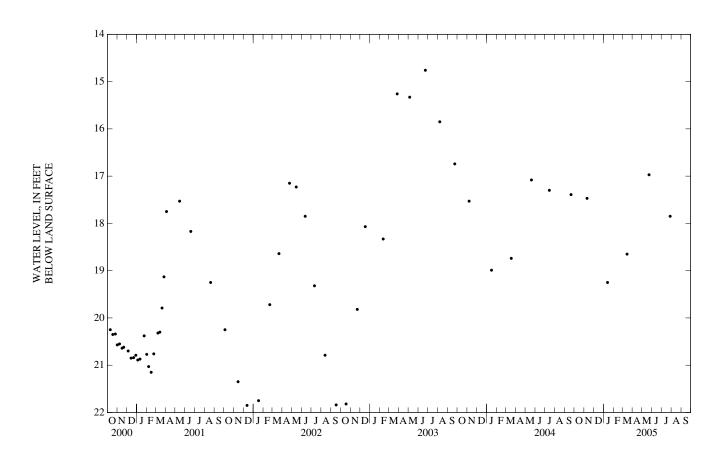
DATUM.--Land-surface datum is 775.85 ft above NGVD of 1929. Measuring point: Top of PVC casing, -0.10 ft below land-surface datum.

REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD .-- October 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.76 ft below land-surface datum, June 23, 2003; lowest water level measured, 21.85 ft below land-surface datum, Dec. 12, 2001.

	WATER								
DATE	LEVEL								
NOV 10	17 47	IAN 13	19 25	MAR 15	18 65	MAY 23	16 97	ПП. 28	17.85



353141080524701. County number, IR-145; DENR Langtree Research Station MW-1S (Regolith well).

LOCATION.—Lat 35°31'41", long 80°52'47", Hydrologic Unit 03050101, 2.5 mi northwest of Davidson, .2 mi north of Langtree Road at Davidson College Lake Campus. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Regolith (saprolitic quartz diorite).

WELL CHARACTERISTICS.--Drilled observation well, depth 38 ft, diameter 4 in., cased to 28 ft, screened interval from 28 to 38 ft, sand filter packed from 26 to 38 ft.

INSTRUMENTATION .-- Measured periodically with steel and electric tape. (by DENR and USGS)

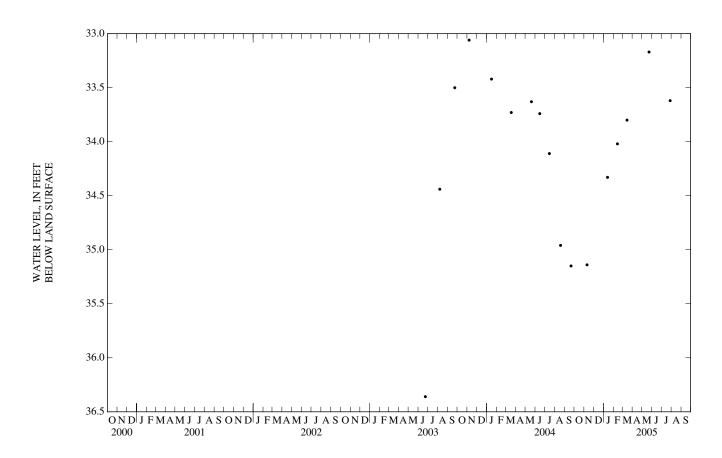
DATUM.--Land-surface datum is 812.57 ft above NGVD of 1929, (levels by DENR). Measuring point: Top of 4 in. PVC casing, 2.50 ft above land-surface datum.

REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD .-- January 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Well dry during periodic water-level measurements January 2001 to June 2003. Highest water level measured, 33.06 ft below land-surface datum, Nov. 7, 2003; lowest water level measured, 36.36 ft below land-surface datum, June 23, 2003.

DATE	WATER LEVEL										
NOV 10	35.14	JAN 13	34.33	FEB 13	34.02	MAR 15	33.80	MAY 23	33.17	ЛЛ. 28	33.62



353141080524702. County number, IR-146; DENR Langtree Research Station MW-1I (Transition zone well).

LOCATION.—Lat 35°31'41", long 80°52'47", Hydrologic Unit 03050101, 2.5 mi northwest of Davidson, .2 mi north of Langtree Road at Davidson College Lake Campus. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Transition zone (weathered and competent quartz diorite).

WELL CHARACTERISTICS.--Drilled observation well, depth 53 ft, diameter 4 in., cased to 38 ft, screened interval from 38 to 53 ft, sand filter packed from 34 to 53 ft.

INSTRUMENTATION .-- Measured periodically with steel and electric tape. (by DENR and USGS)

DATUM.--Land-surface datum is 812.65 ft above NGVD of 1929, (levels by DENR). Measuring point: Top of 4 in. PVC casing, 2.42 ft above land-surface datum.

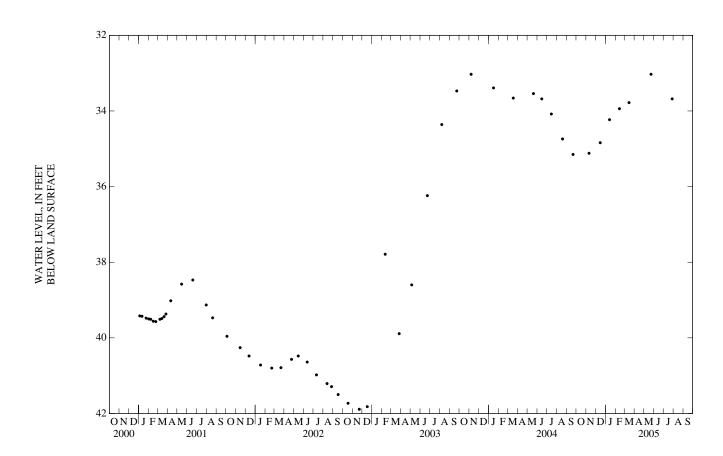
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD .-- January 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 33.03 ft below land-surface datum, Nov. 7, 2003, May 23, 2005; lowest water level measured, 41.89 ft below land-surface datum, Nov. 22, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 10 DEC 15	35.12 34.84	JAN 13 FFR 13	34.23 33.94	MAR 15 MAY 23	33.78 33.03	JUL 28	33.68



353141080524703. County number, IR-147; DENR Langtree Research Station MW-1D (Bedrock well).

LOCATION.--Lat 35°31'41", long 80°52'47", Hydrologic Unit 03050101, 2.5 mi northwest of Davidson, .2 mi north of Langtree Road at Davidson College Lake Campus. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Quartz diorite bedrock.

WELL CHARACTERISTICS.--Drilled observation well, depth 602 ft, diameter 6.25 in., steel cased to 55 ft, initially open hole from 55 to 602 ft. Well modified in December 2001, 4 in. PVC liner installed to 76 ft, open hole from 76 to 602 ft.

INSTRUMENTATION .-- Measured periodically with steel and electric tape. (by DENR and USGS)

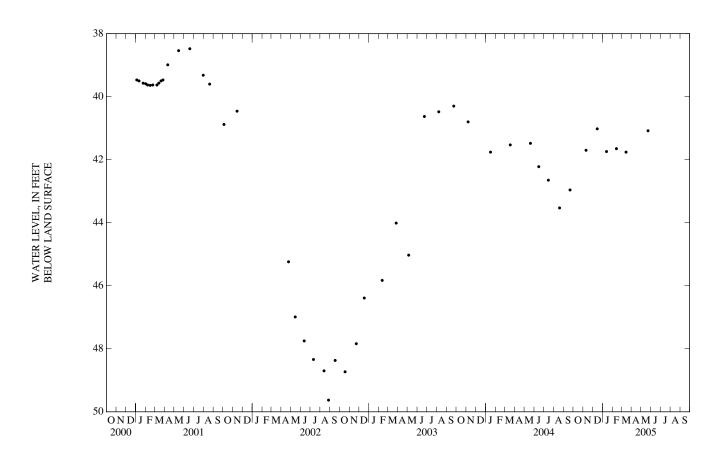
DATUM.--Land-surface datum is 812.51 ft above NGVD of 1929 (levels by DENR). Measuring point: Top of steel protective casing, 2.16 ft above land-surface datum.

REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD .-- January 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 38.48 ft below land-surface datum, June 19, 2001; lowest water level measured, 52.61 ft below land-surface datum, Feb. 21, 2002.

DATE	WATER LEVEL										
NOV 10	41.70	DEC 15	41.02	JAN 13	41.74	FEB 13	41.65	MAR 15	41.76	MAY 23	41.08



353157080525301. County number, IR-148; DENR Langtree Research Station MW-3S (Regolith well).

LOCATION.--Lat 35°31'57", long 80°52'53", Hydrologic Unit 03050101, 2.5 mi northwest of Davidson, .5 mi north of Langtree Road at Davidson College Lake Campus. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Regolith (saprolitic quartz diorite).

WELL CHARACTERISTICS.--Drilled observation well, depth 20 ft, diameter 4 in., cased to 5 ft, screened interval from 5 to 15 ft, sand filter packed from 4 to 20 ft.

INSTRUMENTATION .-- Measured periodically with steel and electric tape. (by DENR and USGS)

DATUM.--Land-surface datum is 761.96 ft above NGVD of 1929, (levels by DENR). Measuring point: Top of 4 in. PVC casing, 0.40 ft below land-surface datum.

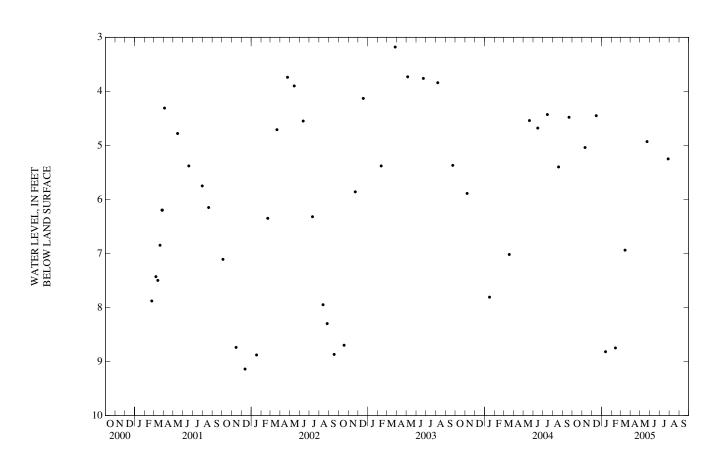
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--February 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.18 ft below land-surface datum, Mar. 27, 2003; lowest water level measured 9.14 ft below land-surface datum, Dec. 12, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 10 DEC 15	5.04 4.45	JAN 13 FFR 13	8.82 8.75	MAR 15 MAY 23	6.94 4.93	JUL 28	5.25



353157080525302. County number, IR-149; DENR Langtree Research Station MW-3I (Transition zone well).

LOCATION.—Lat 35°31'57", long 80°52'53", Hydrologic Unit 03050101, 2.5 mi northwest of Davidson, .5 mi north of Langtree Road at Davidson College Lake Campus. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Transition zone (weathered and competent quartz diorite).

WELL CHARACTERISTICS.--Drilled observation well, depth 73 ft, diameter 4 in., cased to 43 ft, screened interval from 43 to 73 ft, native fill from 10 to 73 ft. INSTRUMENTATION.--Measured periodically with steel and electric tape. (by DENR and USGS)

DATUM.--Land surface datum is 762.92 ft above NGVD of 1929, (levels by DENR). Measuring point: Top of 4 in. PVC casing, 0.26 ft below land surface datum

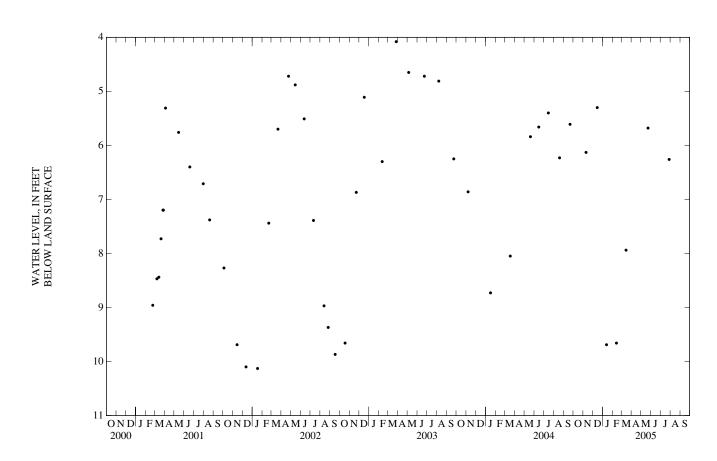
REMARKS.--Well is part of Piedmont/Mountains ground-water study. Possible well construction problems. Monitored zone may be connected to overlying regolith.

PERIOD OF RECORD.--February 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.08 ft below land-surface datum, Mar. 27, 2003; lowest water level measured 10.13 ft below land surface datum, Jan. 17, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 10	6.13	JAN 13 EER 13	9.69 9.66	MAR 15	7.94 5.68	JUL 28	6.26



353145080524701. County number, IR-151; DENR Langtree Research Station MW-4IB (Transition zone well).

LOCATION.—Lat 35°31'45", long 80°52'47", Hydrologic Unit 03050101, 2.5 mi northwest of Davidson, .3 mi north of Langtree Road at Davidson College Lake Campus. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Transition zone (bedrock quartz diorite).

WELL CHARACTERISTICS.--Drilled observation well, depth 53 ft, diameter 4 in., cased to 38 ft, screened interval from 38 to 53 ft, sand filter packed with native fill 35 to 53 ft.

INSTRUMENTATION .-- Measured periodically with steel and electric tape. (by DENR and USGS)

DATUM.--Land-surface datum is 802.93 ft above NGVD of 1929, (levels by DENR). Measuring point: Top of 4 in. PVC casing, 0.03 ft below land-surface datum

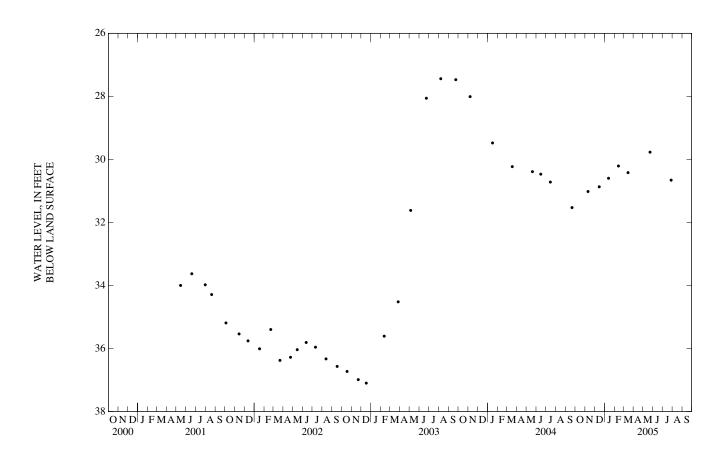
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD .-- May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.44 ft below land-surface datum, Aug. 7, 2003; lowest water level measured, 37.10 ft below land-surface datum, Dec. 17, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 10 DEC 15	31.02 30.87	JAN 13 FFR 13	30.60 30.21	MAR 15 MAY 23	30.42 29.77	JUL 28	30.66



353145080524704. County number, IR-152A; DENR Langtree Research Station MW-4IA (Transition zone well).

LOCATION.—Lat 35°31'45", long 80°52'47", Hydrologic Unit 03050101, 2.5 mi northwest of Davidson, .3 mi north of Langtree Road at Davidson College Lake Campus. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Transition zone (weathered and competent quartz diorite).

WELL CHARACTERISTICS.--Drilled observation well, depth 55 ft, diameter 2 in., cased to 40 ft, screened interval from 40 to 55 ft, sand filter packed with native fill 35 to 55 ft.

INSTRUMENTATION .-- Measured periodically with steel and electric tape. (by DENR and USGS)

DATUM.--Land-surface datum is 802.39 ft above NGVD of 1929, (levels by DENR). Measuring point: Top of 2 in. PVC casing, 0.69 ft above land-surface datum.

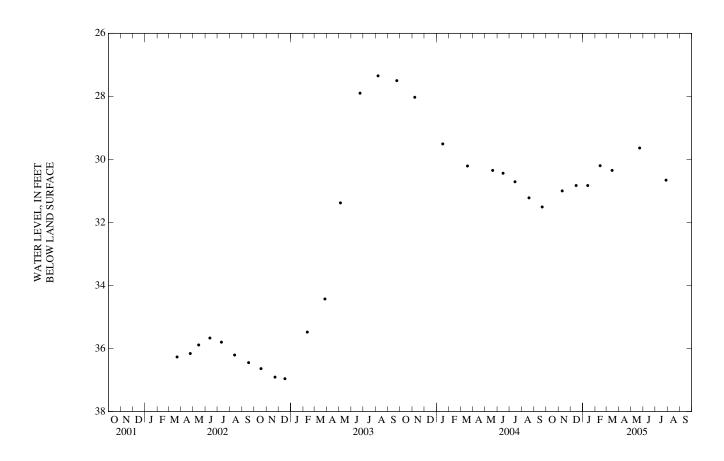
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD .-- March 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.35 ft below land-surface datum, Aug. 7. 2003; lowest water level measured, 36.96 ft below land-surface datum, Dec. 17, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	
NOV 10 DEC 15	31.00 30.83	JAN 13 FFR 13	30.83 30.20	MAR 15 MAY 23	30.35 29.64	JUL 28	30.66	



353145080524703. County number, IR-153; DENR Langtree Research Station MW-4D (Bedrock well).

LOCATION.—Lat 35°31'45", long 80°52'47", Hydrologic Unit 03050101, 2.5 mi northwest of Davidson, .3 mi north of Langtree Road at Davidson College Lake Campus. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Quartz diorite bedrock.

WELL CHARACTERISTICS.--Drilled observation well, depth 400 ft, diameter 6.25 in., steel cased to 61 ft, initially open hole from 61 to 400 ft. Well modified in December 2001, 4 in. PVC liner installed to 69 ft, open hole from 69 to 400 ft.

INSTRUMENTATION .-- Measured periodically with steel and electric tape. (by DENR and USGS)

DATUM.--Land-surface datum is 801.84 ft above NGVD of 1929, (levels by DENR). Measuring point: Top of 4 in. PVC casing, 1.25 ft above land-surface datum.

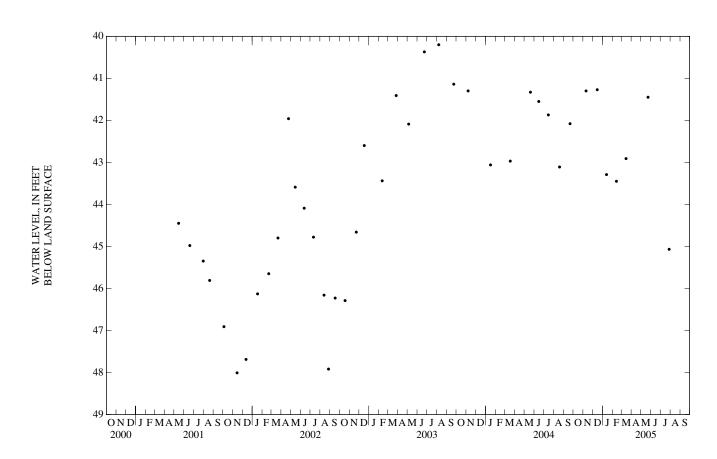
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD .-- May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 40.20 ft below land-surface datum, Aug. 7, 2003; lowest water level measured, 48.01 ft below land-surface datum, Nov. 14, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	WATER LEVEL	
NOV 10 DEC 15	41.30 41.27	JAN 13 FFR 13	43.29 43.45	MAR 15 MAY 23	42.91 41.45	JUL 28	45.07



#### **GROUND-WATER LEVELS**

#### IREDELL COUNTY—Continued

353148080524701. County number, IR-154; DENR Langtree Research Station MW-5S (Regolith well).

LOCATION.—Lat 35°31'48", long 80°52'47", Hydrologic Unit 03050101, 2.5 mi northwest of Davidson, .3 mi north of Langtree Road at Davidson College Lake Campus. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Regolith (saprolitic quartz diorite).

WELL CHARACTERISTICS.--Drilled observation well, depth 20 ft, diameter 4 in., cased to 10 ft, screened interval from 10 to 20 ft, sand filter packed from 8 to 20 ft.

INSTRUMENTATION .-- Measured periodically with steel and electric tape. (by DENR and USGS)

DATUM.--Land-surface datum is 786.18 ft above NGVD of 1929, (levels by DENR). Measuring point: Top of 4 in. PVC casing, 0.04 ft below land-surface datum.

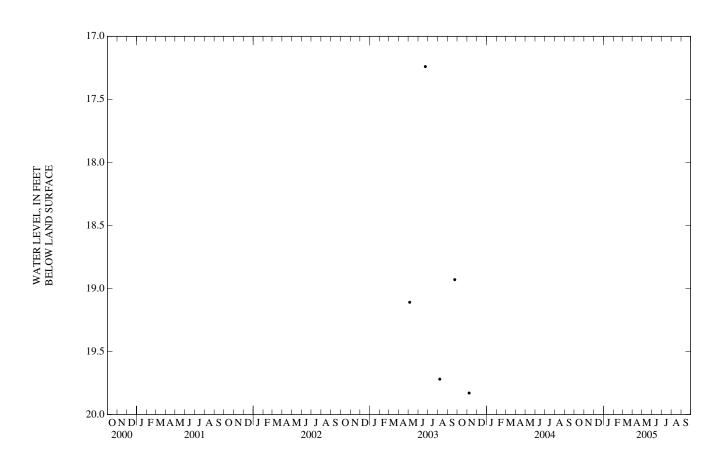
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD .-- May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Well dry during periodic water-level measurements May 2001 to May 2003 and Jan. 2004 to July 2005. Highest water level measured, 17.24 ft below land-surface datum, June 23, 2003; lowest water level measured, 19.83 ft below land-surface datum, Nov. 7, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	
NOV 10	DRY	JAN 13 EER 13	DRY	MAR 15	DRY	JUL 28	DRY	



353148080524702. County number, IR-155; DENR Langtree Research Station MW-51 (Transition zone well).

LOCATION.—Lat 35°31'48", long 80°52'47", Hydrologic Unit 03050101, 2.5 mi northwest of Davidson, .3 mi north of Langtree Road at Davidson College Lake Campus. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Transition zone (weathered and competent quartz diorite bedrock).

WELL CHARACTERISTICS.--Drilled observation well, depth 35 ft, diameter 4 in., cased to 20 ft, screened interval from 20 to 35 ft, sand filter packed from 18 to 35 ft.

INSTRUMENTATION .-- Measured periodically with steel and electric tape. (by DENR and USGS)

DATUM.--Land-surface datum is 785.07 ft above NGVD of 1929, (levels by DENR). Measuring point: Top of 4 in. PVC casing, 0.21 ft above land-surface datum.

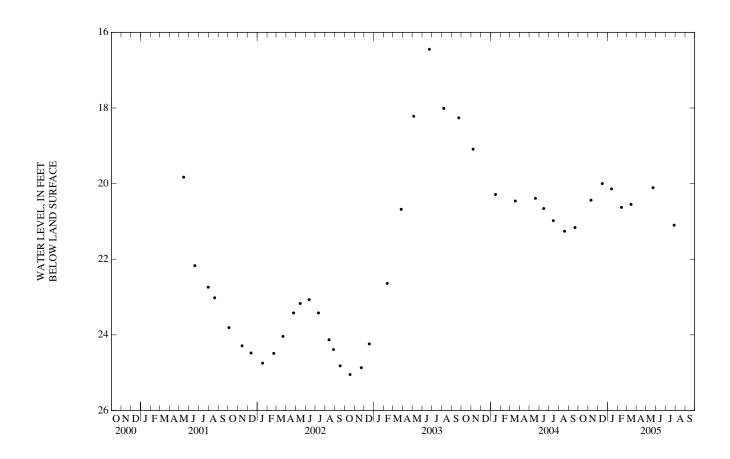
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD .-- May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.45 ft below land-surface datum, June 23, 2003; lowest water level measured, 25.05 ft below land-surface datum, Oct. 18, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL			
NOV 10 DEC 15	20.44	JAN 13 FFR 13	20.14	MAR 15 MAY 23	20.55	JUL 28	21.10	



353148080524703. County number, IR-156; DENR Langtree Research Station MW-5D (Bedrock well).

LOCATION.--Lat 35°31'48", long 80°52'47", Hydrologic Unit 03050101, 2.5 mi northwest of Davidson, .3 mi north of Langtree Road at Davidson College Lake Campus. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Quartz diorite bedrock.

WELL CHARACTERISTICS.--Drilled observation well, depth 400 ft, diameter 6.25 in., cased to 40 ft, open hole from 40 to 400 ft.

INSTRUMENTATION.--Measured periodically with steel and electric tape. (by DENR and USGS)

DATUM.--Land-surface datum is 784.73 ft above NGVD of 1929, (levels by DENR). Measuring point: Top of steel protective casing, 1.37 ft above land-surface datum.

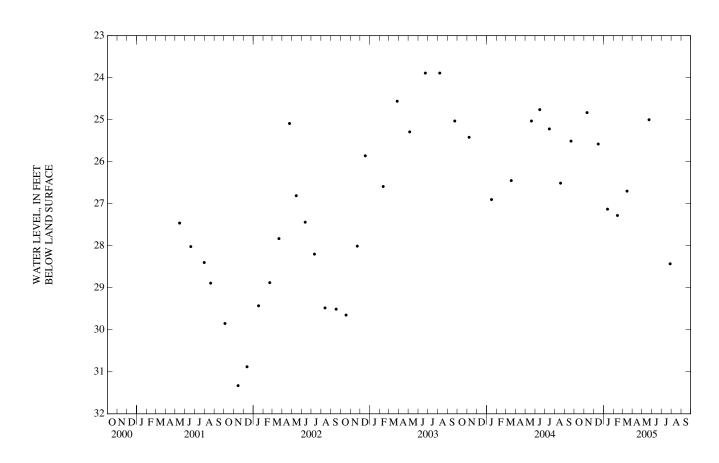
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD .-- May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.89 ft below land-surface datum, June 23, Aug. 7, 2003; lowest water level measured, 31.33 ft below land-surface datum, Nov. 14, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL DATE		WATER LEVEL	DATE	WATER LEVEL	WATER LEVEL	
NOV 10	24.83 25.58	JAN 13 EER 13	27.13	MAR 15	26.70 25.00	JUL 28	28.43



353151080524601. County number, IR-157; DENR Langtree Research Station MW-6S (Regolith well).

LOCATION.--Lat 35°31'51", long 80°52'46", Hydrologic Unit 03050101, 2.5 mi northwest of Davidson, .4 mi north of Langtree Road at Davidson College Lake Campus. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Regolith (saprolitic quartz diorite).

WELL CHARACTERISTICS.--Drilled observation well, depth 18 ft, diameter 4 in., cased to 8 ft, screened interval from 8 to 18 ft, sand filter packed from 6 to 18 ft.

INSTRUMENTATION .-- Measured periodically with steel and electric tape. (by DENR and USGS)

DATUM.--Land-surface datum is 765.32 ft above NGVD of 1929, (levels by DENR). Measuring point: Top of 4 in. PVC casing, 0.28 ft below land-surface datum.

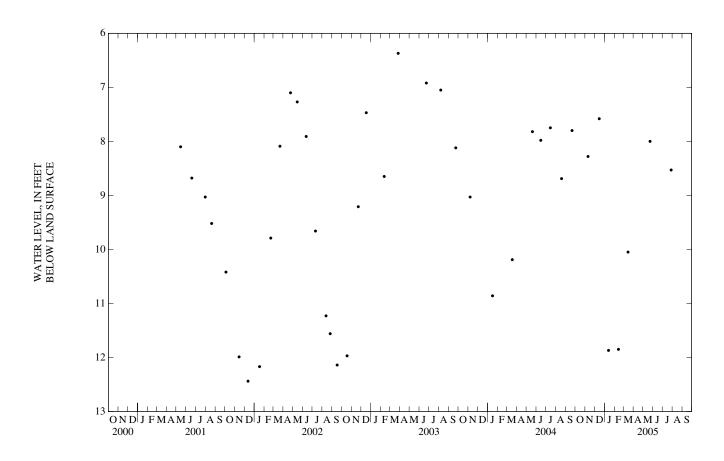
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD .-- May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.37 ft below land-surface datum, Mar. 27, 2003; lowest water level measured, 12.44 ft below land-surface datum, Dec. 12, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	
NOV 10 DEC 15	8.28 7.58	JAN 13 FFR 13	11.87 11.85	MAR 15 MAY 23	10.05	JUL 28	8.53	



353151080524603. County number, IR-159; DENR Langtree Research Station MW-6D (Bedrock well).

LOCATION.—Lat 35°31'52", long 80°52'46", Hydrologic Unit 03050101, 2.5 mi northwest of Davidson, .4 mi north of Langtree Road at Davidson College Lake Campus. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Quartz diorite bedrock.

WELL CHARACTERISTICS.--Drilled observation well, depth 400 ft, diameter 6.25 in., steel cased to 43 ft, initially open hole from 43 to 400 ft. Well modified in December 2001, 4 in. PVC liner installed to 69 ft, open hole from 69 to 400 ft.

INSTRUMENTATION .-- Measured periodically with steel and electric tape. (by DENR and USGS)

DATUM.--Land-surface datum is 765.84 ft above NGVD of 1929, (levels by DENR). Measuring point: Top of 6.25 in. PVC casing, 0.29 ft below land-surface datum.

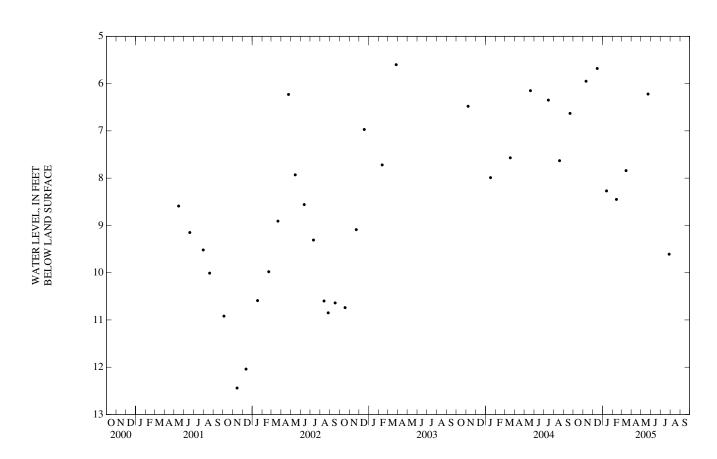
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD .-- May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.60 ft below land-surface datum, Mar. 27, 2003; lowest water level measured, 12.44 ft below land-surface datum, Nov. 14, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	
NOV 10 DEC 15	5.95 5.68	JAN 13 FFR 13	8.27 8.45	MAR 15 MAY 23	7.84 6.22	JUL 28	9.61	



353151080524604. County number, IR-160; DENR Langtree Research Station MW-6IB (Transition zone well).

LOCATION.—Lat 35°31'52", long 80°52'46", Hydrologic Unit 03050101, 2.5 mi northwest of Davidson, .4 mi north of Langtree Road at Davidson College Lake Campus. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER .-- Transition zone (weathered and competent quartz diorite).

WELL CHARACTERISTICS.--Drilled observation well, depth 30 ft, diameter 4 in., cased to 15 ft, screened interval from 15 to 30 ft, sand filter packed from 12 to 30 ft.

INSTRUMENTATION .-- Measured periodically with steel and electric tape. (by DENR and USGS)

DATUM.--Land-surface datum is 765.73 ft above NGVD of 1929, (levels by DENR). Measuring point: Top of 4 in. PVC casing, 0.27 ft below land-surface datum.

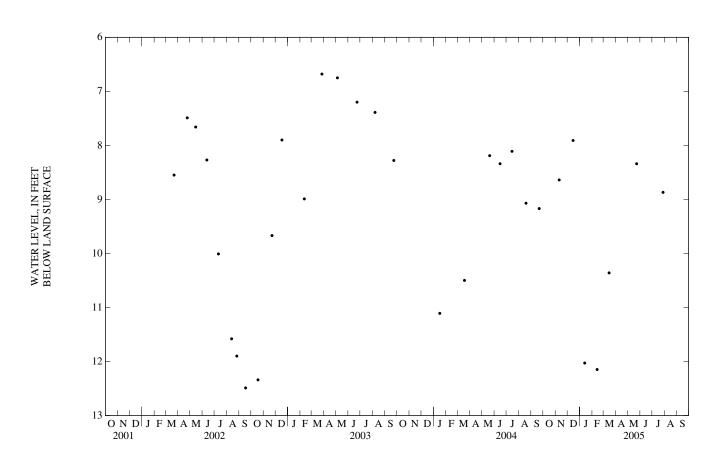
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD .-- March 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.68 ft below land-surface datum, Mar. 27, 2003; lowest water level measured, 12.49 ft below land-surface datum, Sept. 17, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	
NOV 10 DEC 15	8.64 7.91	JAN 13 FFR 13	12.03 12.15	MAR 15 MAY 23	10.36	JUL 28	8.87	



#### JONES COUNTY

345809077301408. Local number, NC-173; DENR Comfort Research Station well U26j8; County number, JO-035.

LOCATION.--Lat 34°58'10", long 77°30'12", Hydrologic Unit 03020204, 2.5 mi south of Comfort at North Carolina Division of Forest Resources Fire Tower on Secondary Road 1003. Owner: DENR (North Carolina Department of Environment and Natural Resources).

#### WATER-LEVEL RECORDS

AQUIFER .-- Surficial aquifer of post-Miocene age.

WELL CHARACTERISTICS.--Drilled observation well, depth 15 ft, diameter 4 in., cased to 5 ft, screened interval from 5 to 15 ft.

INSTRUMENTATION .-- Water-level recorder collecting data at 60-minute intervals. Satellite telemetry at station.

DATUM.--Land-surface datum is 68 ft above NGVD of 1929 (from topographic map). Measuring point: Top of collar on casing, 2.35 ft above land-surface datum.

REMARKS.--Well is part of climatic-effects network.

PERIOD OF RECORD .-- January 1987 to current year.

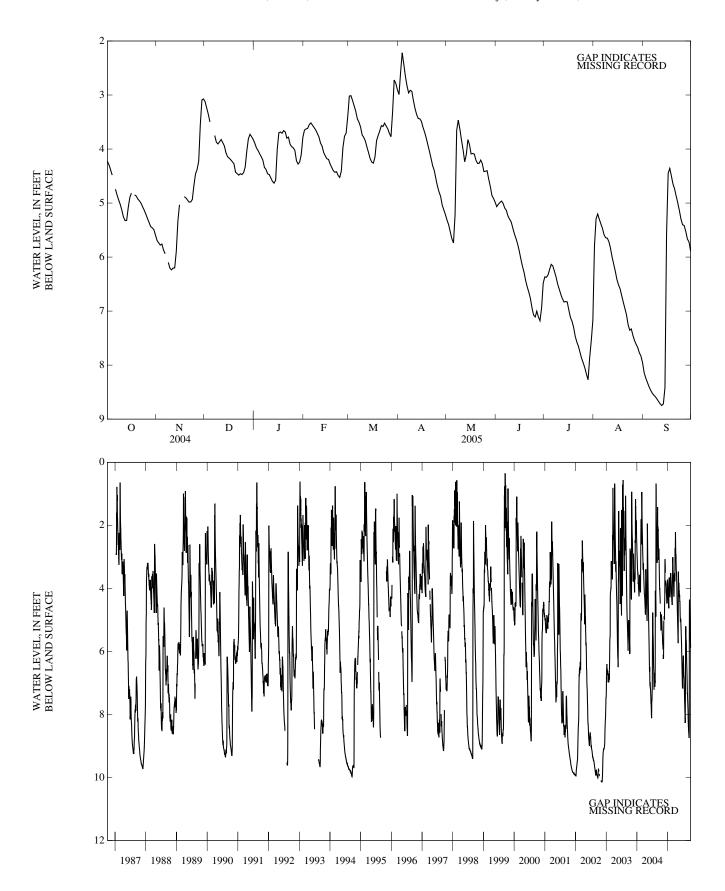
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 0.06 ft above land-surface datum, Sept. 16, 1999; lowest water level recorded, 10.14 ft below land-surface datum, Nov. 6-13, 2002.

# DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES JAN FEB MAR APR MAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	4.23 4.29 4.39 4.48	5.69 5.74 5.78 5.76 5.87	3.12 3.24 3.36 3.50	3.89 3.98 4.03 4.09 4.14	3.65 3.63 3.62 3.55 3.52	3.02 3.01 3.10 3.20 3.30	2.99 2.58 2.22 2.43 2.66	5.32 5.40 5.53 5.66 5.74	5.07 5.02 4.99 4.96 5.01	6.37 6.38 6.33 6.23 6.13	5.79 5.29 5.20 5.30 5.39	8.14 8.24 8.32 8.40 8.46
6 7 8 9 10	4.74 4.85 4.94 5.02 5.13	5.94  6.10 6.20 6.24	3.75 3.87 3.91 3.87	4.20 4.34 4.38 4.46 4.47	3.56 3.60 3.65 3.71 3.77	3.44 3.50 3.59 3.74 3.79	2.83 2.96 2.91 2.93 3.10	5.21 3.65 3.47 3.63 3.83	5.09 5.13 5.24 5.30 5.35	6.16 6.26 6.36 6.50 6.59	5.47 5.59 5.64 5.65 5.71	8.51 8.56 8.59 8.63 8.67
11 12 13 14 15	5.26 5.32 5.32 5.09 4.90	6.20 6.20 5.89 5.33 5.03	3.82 3.88 3.94 4.07 4.14	4.53 4.60 4.63 4.58 4.01	3.89 3.95 4.07 4.13 4.18	3.85 3.96 4.07 4.18 4.24	3.25 3.36 3.43 3.44 3.49	4.02 4.23 4.11 3.83 3.92	5.46 5.57 5.65 5.75 5.88	6.69 6.77 6.83 6.82 6.83	5.84 6.00 6.13 6.26 6.41	8.72 8.75 8.72 8.42 5.56
16 17 18 19 20	4.82  4.85 4.87 4.93	4.88 4.90 4.94	4.17 4.20 4.24 4.27 4.43	3.70 3.68 3.71 3.66 3.68	4.19 4.28 4.34 4.40 4.43	4.26 4.15 3.84 3.75 3.66	3.60 3.69 3.80 3.92 4.04	4.09 4.08 4.09 4.20 4.26	6.03 6.16 6.28 6.43 6.55	6.98 7.12 7.19 7.30 7.47	6.52 6.59 6.71 6.84 6.95	4.45 4.36 4.50 4.65 4.74
21 22 23 24 25	4.96 5.00 5.07 5.13 5.21	4.98 4.98 4.93 4.67 4.46	4.45 4.48 4.46 4.47 4.44	3.80 3.78 3.91 3.96 3.98	4.42 4.49 4.53 4.41 3.97	3.57 3.58 3.52 3.58 3.63	4.17 4.31 4.40 4.55 4.69	4.27 4.20 4.27 4.42 4.41	6.65 6.76 6.94 7.07 7.11	7.57 7.65 7.77 7.88 7.96	7.07 7.25 7.35 7.33 7.45	4.87 5.00 5.14 5.30 5.40
26 27 28 29 30 31	5.29 5.36 5.44 5.46 5.49 5.59	4.38 4.22 3.54 3.09 3.07	4.33 4.04 3.81 3.73 3.77 3.82	4.03 4.22 4.28 4.24 4.10 3.78	3.76 3.71 3.40 	3.71 3.77 3.32 2.72 2.78 2.90	4.79 4.88 5.04 5.13 5.22	4.40 4.56 4.69 4.86 4.91 4.98	7.00 7.11 7.18 6.94 6.49	8.05 8.17 8.27 7.86 7.55 7.17	7.55 7.61 7.67 7.77 7.83 7.95	5.42 5.53 5.67 5.72 5.89

WTR YR 2005 MEAN 5.03 HIGH 2.22 LOW 8.75

345809077301408. Local number, NC-173; DENR Comfort Research Station well U26j8; County number, JO-035.



345809077301408 Local number, NC-173; DENR Comfort Research Station well U26j8; County number, JO-035

#### PRECIPITATION RECORDS

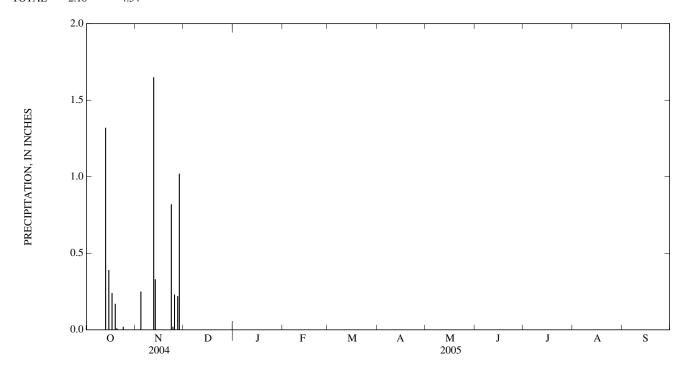
PERIOD OF RECORD.--July 2003 to December 2004.

GAGE.--Tipping-bucket raingage and electronic datalogger.

REMARKS.--Gage is operated as part of a U.S. Geological Survey Ground-water Resources Program recharge study. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

#### PRECIPITATION, TOTAL, INCHES WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.03	0.00	0.00									
2	0.00	0.00	0.00									
3	0.00	0.00	0.00									
4	0.00	0.25	0.00									
5	0.00	0.00	0.00									
6	0.00	0.00										
7	0.00	0.00										
8	0.00	0.00										
9	0.00	0.00										
10	0.00	0.00										
11	0.00	0.00										
12	0.00	1.65										
13	1.32	0.33										
14	0.00	0.00										
15	0.39	0.00										
16	0.00	0.00										
17	0.24	0.00										
18	0.00	0.00										
19	0.17	0.00										
20	0.01	0.00										
21	0.00	0.00										
22	0.00	0.00										
23	0.00	0.82										
24	0.02	0.02										
25	0.00	0.23										
26	0.00	0.00										
27	0.00	0.22										
28	0.00	1.02										
29	0.00	0.00										
30	0.00	0.00										
31	0.00											
TOTAL	2.18	4.54										



#### LENOIR COUNTY

351937077284211. Local number, NC-223; DENR Graingers Research Station well Q25d11; County number, LN-105.

LOCATION.--Lat 35°19'38", long 77°28'41", Hydrologic Unit 03020202, 1.6 mi northeast of Graingers on North Carolina Highway 11 at E. I. du Pont de Nemours and Company, Kinston Plant. Owner: DENR (North Carolina Department of Environment, and Natural Resources).

AQUIFER.--Surficial aquifer of post-Miocene age.

WELL CHARACTERISTICS.--Drilled observation well, depth 40 ft, diameter 4 in., screened interval from 30 to 40 ft.

INSTRUMENTATION.--Water-level recorder collecting data at 60-minute intervals. Satellite telemetry at station.

DATUM.--Land-surface datum is 66 ft above NGVD of 1929 (from topographic map). Measuring point: Instrument shelter floor, 1.80 ft above land-surface datum.

REMARKS.--Well is part of areal-effects network.

PERIOD OF RECORD.--November 1985 to current year. Periodic water level measurements November 1985 to October 1986. Continuous record began June 2000.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 9.54 ft below land-surface datum, Dec. 19, 20, 25-27, 2003; lowest water level measured, 20.60 ft below land-surface datum, Nov. 19, 1985.

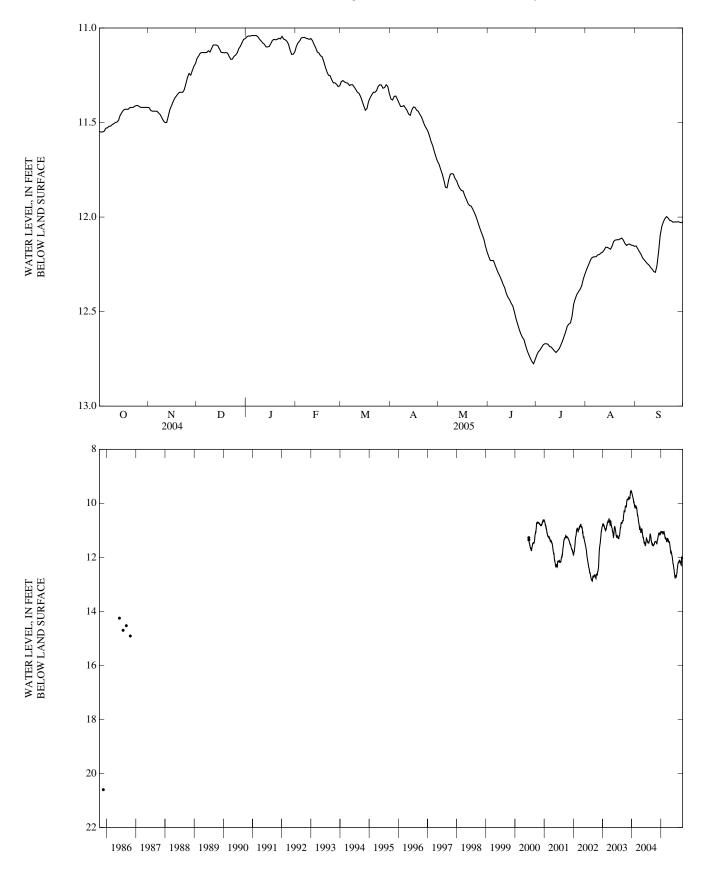
# DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.55	11.42	11.16	11.05	11.10	11.28	11.38	11.72	12.21	12.73	12.28	12.15
2	11.55	11.44	11.15	11.04	11.08	11.28	11.38	11.75	12.23	12.71	12.26	12.17
3	11.55	11.44	11.13	11.04	11.07	11.29	11.36	11.77	12.23	12.70	12.24	12.18
4	11.55	11.44	11.13	11.04	11.05	11.29	11.36	11.80	12.23	12.69	12.22	12.20
5	11.53	11.44	11.13	11.04	11.05	11.29	11.38	11.84	12.25	12.68	12.21	12.22
6	11.53	11.44	11.13	11.04	11.05	11.30	11.40	11.85	12.28	12.67	12.21	12.23
7	11.52	11.45	11.13	11.04	11.05	11.30	11.41	11.80	12.30	12.67	12.21	12.24
8	11.52	11.46	11.12	11.05	11.06	11.30	11.42	11.77	12.31	12.67	12.20	12.25
9	11.51	11.47	11.13	11.06	11.06	11.31	11.41	11.77	12.33	12.68	12.20	12.25
10	11.51	11.49	11.11	11.07	11.06	11.32	11.42	11.77	12.36	12.69	12.19	12.27
11	11.50	11.50	11.09	11.08	11.07	11.34	11.44	11.80	12.37	12.70	12.19	12.28
12	11.50	11.50	11.09	11.09	11.09	11.35	11.46	11.81	12.40	12.71	12.18	12.29
13	11.49	11.47	11.09	11.10	11.10	11.36	11.46	11.83	12.42	12.72	12.16	12.29
14	11.46	11.43	11.10	11.10	11.13	11.39	11.43	11.85	12.44	12.71	12.16	12.26
15	11.45	11.41	11.11	11.10	11.13	11.41	11.42	11.86	12.46	12.70	12.16	12.18
16	11.43	11.39	11.13	11.08	11.15	11.44	11.42	11.86	12.47	12.68	12.17	12.10
17	11.43	11.37	11.13	11.07	11.15	11.43	11.43	11.89	12.50	12.66	12.15	12.05
18	11.43	11.36	11.13	11.06	11.18	11.39	11.44	11.91	12.54	12.63	12.13	12.03
19	11.43	11.35	11.13	11.06	11.21	11.37	11.46	11.93	12.57	12.61	12.12	12.01
20	11.42	11.34	11.13	11.06	11.23	11.35	11.47	11.94	12.59	12.58	12.12	12.00
21	11.42	11.34	11.15	11.05	11.25	11.34	11.49	11.94	12.62	12.57	12.12	12.01
22	11.42	11.34	11.17	11.06	11.25	11.34	11.52	11.96	12.64	12.56	12.12	12.02
23	11.41	11.33	11.16	11.04	11.27	11.33	11.53	11.98	12.65	12.53	12.11	12.02
24	11.41	11.29	11.15	11.06	11.29	11.31	11.55	12.00	12.68	12.46	12.12	12.03
25	11.41	11.26	11.14	11.06	11.29	11.30	11.57	12.02	12.71	12.43	12.14	12.03
26 27 28 29 30 31	11.42 11.42 11.42 11.42 11.42 11.42	11.24 11.25 11.22 11.20 11.19	11.13 11.11 11.10 11.08 11.06 11.06	11.07 11.09 11.12 11.14 11.14 11.13	11.30 11.31 11.31 	11.30 11.32 11.31 11.30 11.31 11.35	11.60 11.62 11.65 11.68 11.71	12.05 12.07 12.09 12.12 12.16 12.18	12.73 12.75 12.76 12.78 12.75	12.41 12.40 12.38 12.36 12.33 12.30	12.15 12.14 12.14 12.15 12.15 12.15	12.03 12.02 12.03 12.03 12.03

WTR YR 2005 MEAN 11.69 HIGH 11.04 LOW 12.78

## LENOIR COUNTY—Continued

351937077284211. Local number, NC-223; DENR Graingers Research Station well Q25d11; County number, LN-105.



#### LENOIR COUNTY—Continued

352305077321701. County number, LN-184; LU-15.

LOCATION.--Lat 35°23'05", long 77°32'17", Hydrologic Unit 03020203, intersection of Secondary Road 1004 and Secondary Road 1707, south of Hugo.

#### WATER-LEVEL RECORDS

AQUIFER .-- Peedee.

WELL CHARACTERISTICS.--Drilled observation well, depth 15.07 ft, diameter 2 in., screened interval from 12.07 to 15.07 ft.

INSTRUMENTATION.--Water-level recorder collecting data at 60-minute intervals.

DATUM.--Land-surface datum is 33 ft above NGVD of 1929. Measuring point: Top of casing, 2.93 ft above land-surface datum.

EED

REMARKS .-- Well is part of National Water Quality Assessment Program (NAWQA).

PERIOD OF RECORD.--December 2004 to September 2005.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 3.8 ft below land-surface datum, July 23, 2005; lowest water level recorded, 9.6 ft below land-surface datum, Sept. 30, 2005.

# DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

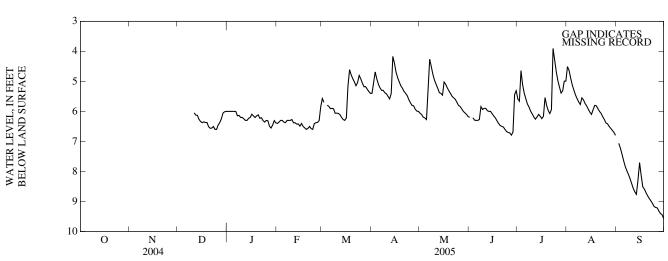
MAD

۸ DD

CED

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				6.0	6.4	5.6	5.4	6.1	6.2	5.6	4.5	
2				6.0	6.4	5.7	5.0	6.1		5.7	4.6	7.1
3				6.0	6.3		4.7	6.2	6.2	4.6	4.9	7.2
4				6.0	6.3	5.8	4.9	6.2	6.3	5.1	5.1	7.4
5				6.0	6.4	5.8	5.1	6.3	6.3	5.4	5.3	7.6
6				6.0	6.4	5.9	5.2	5.3	6.3	5.6	5.5	7.8
7				6.1	6.3	5.9	5.3	4.3	6.3	5.8	5.6	8.0
8				6.1	6.3	5.9	5.3	4.5	5.8	5.9	5.7	8.1
9				6.2	6.3	6.1	5.4	4.8	5.9	6.0	5.8	8.2
10				6.2	6.3	6.1	5.4	5.0	5.9	6.1	5.5	8.4
11			6.0	6.2	6.4	6.1	5.5	5.1	5.9	6.2	5.6	8.6
12			6.1	6.3	6.4	6.1	5.6	5.2	6.0	6.3	5.7	8.7
13			6.1	6.3	6.4	6.2	5.4	5.4	6.0	6.2	5.8	8.8
14			6.3	6.2	6.4	6.3	4.2	5.4	6.0	6.1	5.9	8.3
15			6.3	6.2	6.5	6.3	4.4	5.5	6.1	6.2	6.0	7.7
16			6.4	6.1	6.4	6.2	4.7	5.0	6.2	6.2	6.1	8.1
17			6.3	6.2	6.5	5.1	4.9	5.1	6.2	6.2	5.9	8.5
18			6.4	6.2	6.5	4.6	5.0	5.2	6.3	5.5	5.8	8.6
19			6.4	6.1	6.6	4.8	5.1	5.3	6.4	5.8	5.8	8.7
20			6.5	6.1	6.6	4.9	5.2	5.4	6.5	6.0	5.9	8.8
21			6.6	6.2	6.5	5.0	5.3	5.5	6.5	6.1	6.0	8.9
22			6.6	6.2	6.6	5.1	5.4	5.5	6.5	5.9	6.1	9.0
23			6.5	6.3	6.6	5.0	5.5	5.6	6.6	3.9	6.2	9.1
24			6.6	6.4	6.4	4.8	5.6	5.7	6.7	4.3	6.3	9.2
25			6.6	6.3	6.4	4.9	5.7	5.8	6.7	4.7	6.4	9.2
26			6.5	6.3	6.4	5.1	5.8	5.8	6.7	5.0	6.4	9.2
27			6.4	6.5	6.3	5.2	5.8	5.9	6.8	5.2	6.5	9.3
28			6.2	6.6	5.8	5.2	5.9	6.0	6.7	5.4	6.6	9.4
29			6.1	6.5		5.3	6.0	6.0	5.4	5.3	6.6	9.4
30			6.0	6.3		5.3	6.0	6.1	5.3	5.0	6.7	9.6
31			6.0	6.4		5.4		6.2		5.0	6.8	

WTR YR 2005 MEAN 6.1 HIGH 3.9 LOW 9.6



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# WATER-QUALITY RECORDS

PERIOD OF RECORD.--1994, 2001, 2002, October 2004 to September 2005.

REMARKS.--Well is part of the National Water Quality Assessment (NAWQA) Program.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ZOTILIT I	<i></i>			<b>511 2</b> 00 . 1 .	J DEI 12111	2000			
Date	Time	Depth of well, feet below LSD (72008)	Depth to water level, feet below LSD (72019)	Alti- tude of land surface feet (72000)	Water level, depth below MP, feet (61055)	Flow rate, instantaneous gal/min (00059)	Sampling depth, feet (00003)	Turbdty white light, det ang 90+/-30 corretd NTRU (63676)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)
DEC 02 MAR	1415	15.07	5.54	72	8.47	.15	13.0		762	4.5	48	6.3	217
03	1000	15.07	5.93	72	8.86	.10		3.5	760	4.9	47	6.3	213
JUN 02	1145	15.07	6.18	72	9.11	.10		5.1	758	4.8	49	6.1	232
SEP 01	1130	15.07	6.89	72	9.82	.10		1.4	757	5.1	57	7.1	215
							DED 2004						
		WAIE	R-QUALIT	Y DATA,	WAIEK YI	EAR OCT	JBER 2004			J5—CON I	INUED		
Date	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorp- tion ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)
DEC 02	18.9		18.0	5.74	5.47	.1	2.34	27	33	.05	7.36	.4	8.13
MAR 03	13.8	71	18.9	5.75	5.12	.1	2.35	28	34	.04	7.47	.3	6.87
JUN 02	15.8	69	18.7	5.35	4.83	.1	2.31	31	38	.08	7.66	.4	7.47
SEP 01	21.1	74	20.4	5.71	5.55	.1	2.33	36	44	.09	7.93	.3	7.44
		WATE	R-QUALIT	Y DATA.	WATER YI	EAR OCTO	DBER 2004	TO SEPTE	EMBER 20	05—CONT	INUED		
			K QUILLI		WITTER I			TO SET II			IIVEED	2 E411	
Date	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Total nitro- gen, wat flt by anal ysis, mg/L (62854)	Orthophosphate, water, fltrd, mg/L as P (00671)	1-Naph- thol, water, fltrd 0.7u GF ug/L (49295)	2,6-Diethylaniline water fltrd 0.7u GF ug/L (82660)	2Chloro -2',6-' diethyl acet- anilide wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)	2-Ethyl -6- methyl- aniline water, fltrd, ug/L (61620)	3,4-Di- chloro- aniline water fltrd, ug/L (61625)
DEC 02	13.9	133	<.04	10.7	<.008	11.1	.008	<.09	<.006	<.005	E.058	<.004	<.004
MAR 03	15.2	114	<.04	9.63	<.008	10.0	.015	<.09	<.006	<.005	E.046	<.004	<.004
JUN 02	15.1	165	E.02	10.2	.010	10.5	.009	<.09	<.006	<.005	E.045	<.004	<.004
SEP 01	14.1	139	<.04	9.55	<.008	9.71	.017	<.09	<.006	<.005	E.069	<.004	<.004
		WATE	R-QUALIT	Y DATA.	WATER YI	EAR OCTO	DBER 2004	TO SEPTE	EMBER 20	05—CONT	INUED		
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ii Quiibii		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2.11.001				00 00111	11.025		
Date	3,5-Di- chloro- aniline water, fltrd, ug/L (61627)	4Chloro 2methyl phenol, water, fltrd, ug/L (61633)	Aceto- chlor, water, fltrd, ug/L (49260)	Ala- chlor, water, fltrd, ug/L (46342)	alpha- Endo- sulfan, water, fltrd, ug/L (34362)	Atra- zine, water, fltrd, ug/L (39632)	Azin- phos- methyl oxon, water, fltrd, ug/L (61635)	Azin- phos- methyl, water, fltrd 0.7u GF ug/L (82686)	Ben- flur- alin, water, fltrd 0.7u GF ug/L (82673)	Carbaryl, water, fltrd 0.7u GF ug/L (82680)	Carbo- furan, water, fltrd 0.7u GF ug/L (82674)	Chlor- pyrifos oxon, water, fltrd, ug/L (61636)	Chlor- pyrifos water, fltrd, ug/L (38933)
DEC						.391	. 07	. 050	<.010	<.041		06	. 005
02		<.006	<.006	<.005		.391	<.07	<.050	<.010	<.041		<.06	<.005
MAR 03		<.006 <.006	<.006 <.006	<.005 <.005		.345	<.07	<.050	<.010	<.041		<.06	<.005
MAR													

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# WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date DEC	cis- Per- methrin water fltrd 0.7u GF ug/L (82687)	cis- Propi- cona- zole, water, fltrd, ug/L (79846)	Cyana- zine, water, fltrd, ug/L (04041)	Cyflu- thrin, water, fltrd, ug/L (61585)	lambda- Cyhalo- thrin, water, fltrd, ug/L (61595)	Cypermethrin water, fltrd, ug/L (61586)	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170)	Diazinon oxon, water, fltrd, ug/L (61638)	Diazi- non, water, fltrd, ug/L (39572)	Dicrotophos, water fltrd, ug/L (38454)	Dieldrin, water, fltrd, ug/L (39381)	Dimethoate, water, fltrd 0.7u GF ug/L (82662)
02 MAR	<.006			<.008		<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.006
03 JUN	<.006			<.027		<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.006
02 SEP	<.006	<.016	<.018	<.027	<.009	<.016	<.003	<.012		<.005	<.08	<.009	<.006
01	<.006	<.008	<.018	<.027	<.009	<.009	<.003	<.012		<.005	<.08	<.009	<.006
		WATE	R-QUALIT	Y DATA,	WATER YI	EAR OCTO	DBER 2004	TO SEPTI	EMBER 200	)5—CONT	INUED		
Date	Disulf- oton sulfone water, fltrd, ug/L (61640)	Disulfoton, water, fltrd 0.7u GF ug/L (82677)	Endo- sulfan sulfate water, fltrd, ug/L (61590)	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethion monoxon water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)	Etho- prop, water, fltrd 0.7u GF ug/L (82672)	Fenami- phos sulfone water, fltrd, ug/L (61645)	Fenami- phos sulf- oxide, water, fltrd, ug/L (61646)	Fenami- phos, water, fltrd, ug/L (61591)	Desulf- inyl- fipro- nil amide, wat flt ug/L (62169)	Fipronil sulfide water, fltrd, ug/L (62167)	Fipronil sulfone water, fltrd, ug/L (62168)
DEC 02					<.0020	<.004		<.049	<.04	<.03	<.029	<.013	<.024
MAR 03					<.0020	<.004		<.049	<.04	<.03	<.029	<.013	<.024
JUN 02	<.01	<.02	<.014	<.004	<.002	<.004	<.005	<.049	<.04	<.03	<.029	<.013	<.024
SEP 01	<.01	<.02	<.014	<.004	<.002	<.004	<.005	<.049	<.04	<.03	<.029	<.013	<.024
		WATEI	R-QUALIT	Y DATA, '	WATER YI	EAR OCTO	DBER 2004	TO SEPTI	EMBER 200	)5—CONT	INUED  Methyl	Methyl	
Date	Fipro- nil, water, fltrd, ug/L (62166)	Fonofos oxon, water, fltrd, ug/L (61649)	Fonofos water, fltrd, ug/L (04095)	Hexa- zinone, water, fltrd, ug/L (04025)	Iprodione, water, fltrd, ug/L (61593)	Isofen- phos, water, fltrd, ug/L (61594)	Mala- oxon, water, fltrd, ug/L (61652)	Malathion, water, fltrd, ug/L (39532)	Meta- laxyl, water, fltrd, ug/L (61596)	Methi- althion water, fltrd, ug/L (61598)	para- oxon, water, fltrd, ug/L (61664)	para- thion, water, fltrd 0.7u GF ug/L (82667)	Metola- chlor, water, fltrd, ug/L (39415)
DEC 02	<.016	<.003	<.003	<.013	<.387	<.003	<.030	<.027	<.005	<.006	<.03	<.015	.009
MAR 03	<.016		<.003	<.013	<.538	<.003	<.030	<.027	<.005	<.006	<.03	<.015	.006
JUN 02	<.016		<.003	<.013	<.538	<.003	<.030	<.027	<.005	<.006	<.03	<.015	<.006
SEP 01	<.016		<.003	<.013	<.538	<.003	<.030	<.027	<.005	<.006	<.03	<.015	.008
		WATE	R-QUALIT	Y DATA,	WATER YI	EAR OCTO	DBER 2004	TO SEPTI	EMBER 200	)5—CONT	INUED		
Date	Metri- buzin, water, fltrd, ug/L (82630)	Molinate, water, fltrd 0.7u GF ug/L (82671)	Myclo- butanil water, fltrd, ug/L (61599)	Oxy- fluor- fen, water, fltrd, ug/L (61600)	Pendimethalin, water, fltrd 0.7u GF ug/L (82683)	Phorate oxon, water, fltrd, ug/L (61666)	Phorate water fltrd 0.7u GF ug/L (82664)	Phosmet oxon, water, fltrd, ug/L (61668)	Phosmet water, fltrd, ug/L (61601)	Prometon, water, fltrd, ug/L (04037)	Prometryn, water, fltrd, ug/L (04036)	Propy- zamide, water, fltrd 0.7u GF ug/L (82676)	Propanil, water, fltrd 0.7u GF ug/L (82679)
DEC 02	<.006		<.008		<.022	<.10	<.011		<.008	<.01	<.005	<.004	
MAR 03	<.006		<.008		<.022	<.10	<.011	<.05	<.008	<.01	<.005	<.004	
JUN 02 SED	<.006	<.003	<.008	<.007	<.022	<.10	<.011	<.05	<.008	<.01	<.005	<.004	<.011
SEP 01	<.006	<.003	<.008	<.007	<.022	<.10	<.011	<.05	<.008	<.01	<.005	<.004	<.011

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# WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

					Ter-				trans-		Tri-		
	Propar-		Tebu-		bufos	Terbu-	Ter-	Thio-	Propi-		flur-	Di-	
	gite,	Sima-	thiuron	Teflu-	oxon	fos,	buthyl-	bencarb	cona-	Tribu-	alin,	chlor-	Uranium
	water,	zine,	water	thrin,	sulfone	water,	azine,	water	zole,	phos,	water,	vos,	natural
	fltrd	water,	fltrd	water,	water,	fltrd	water,	fltrd	water,	water,	fltrd	water	water,
	0.7u GF	fltrd,	0.7u GF	fltrd,	fltrd,	0.7u GF	fltrd,	0.7u GF	fltrd,	fltrd,	0.7u GF	fltrd,	fltrd,
Date	ug/L												
	(82685)	(04035)	(82670)	(61606)	(61674)	(82675)	(04022)	(82681)	(79847)	(61610)	(82661)	(38775)	(22703)
DEC													
02		<.005	<.02		<.07	<.02	<.01				<.009	<.01	E.22
MAR		<.003	<.02		<.07	<.02	<.01				<.009	<.01	E.22
03		<.005	<.02		<.07	<.02	<.01				<.009	<.01	
		<.003	<.02		<.07	<.02	<.01				<.009	<.01	
JUN	- 02	- 005	. 02	- 000	. 07	. 02	. 01	.010	- 02	- 004	. 000	. 01	
02	<.02	<.005	<.02	<.008	<.07	<.02	<.01	<.010	<.02	<.004	<.009	<.01	
SEP	. 00	. 005	. 02	. 000	. 07	. 02	. 01	. 010	. 01	. 004	. 000	. 01	
01	<.02	<.005	<.02	<.008	<.07	<.02	<.01	<.010	<.01	<.004	<.009	<.01	