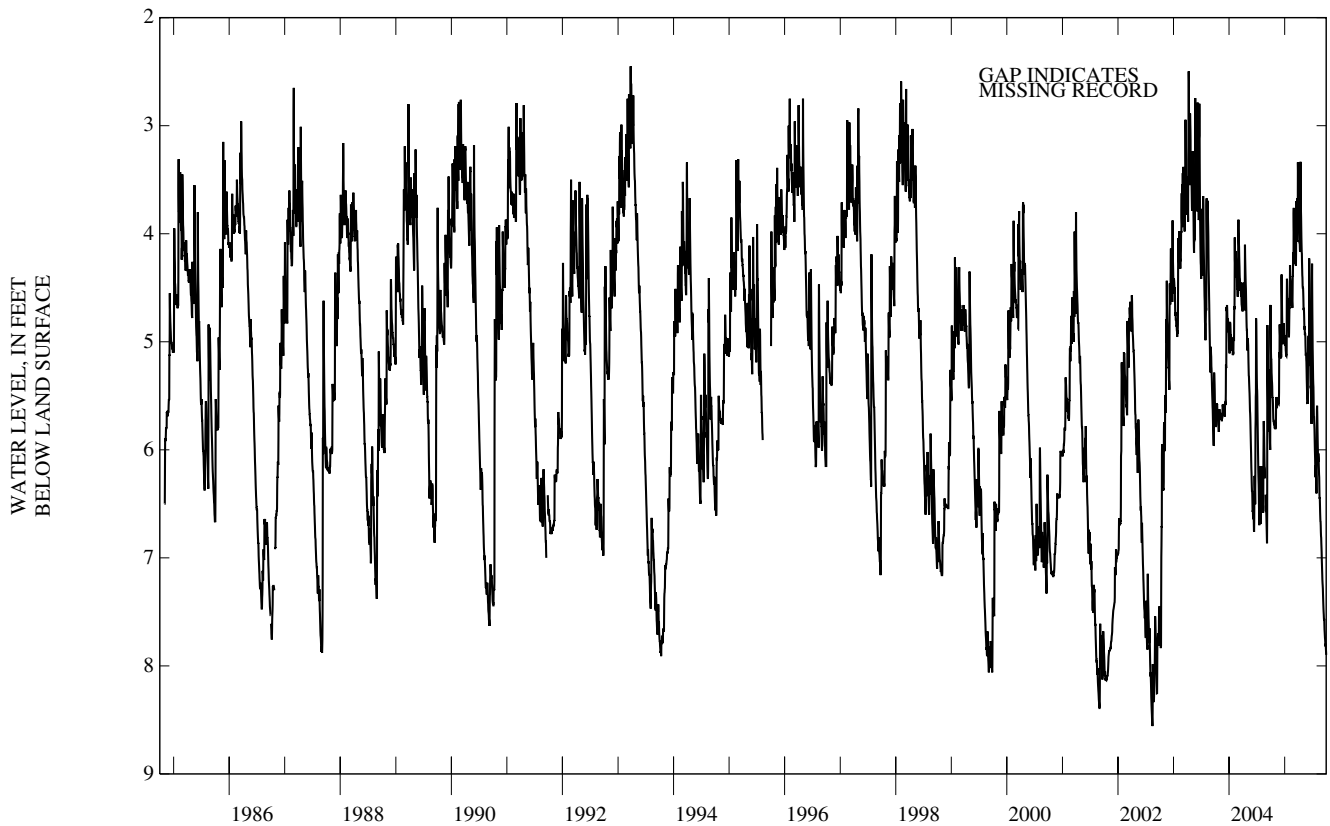
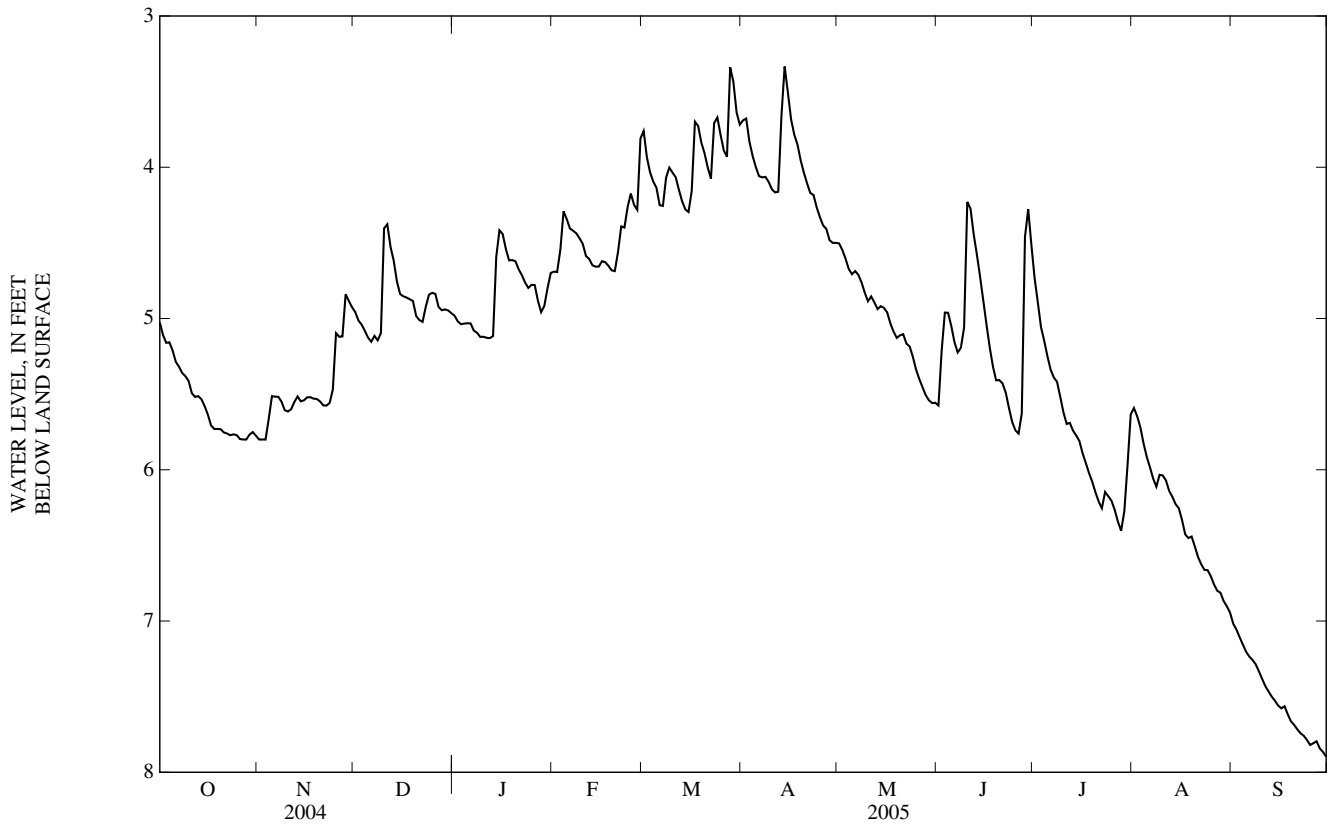




MECKLENBURG COUNTY—Continued

351730080524203. Local number, NC-146; County number, ME-301.



## GROUND-WATER LEVELS

## ONSLOW COUNTY

344425077272501. Local number, NC-52; County number, ON-035.

LOCATION.--Lat 34°44'18", long 77°27'27", Hydrologic Unit 03030001, southwest of Jacksonville, 0.25 mi east of U.S. Highway 17 at U.S. Marine Corps Camp Geiger, and 2 mi south of U.S. Highway 258. Owner: U.S. Marine Corps.

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

WELL CHARACTERISTICS.--Drilled abandoned supply well, depth 70 ft, diameter 18 in. to 23 ft, open hole from 23 to 70 ft; measured depth 68 ft, January 1974.

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

DATUM.--Land-surface datum is 17 ft above NGVD of 1929 (from topographic map). Measuring point: Top of instrument shelf, 1.83 ft above land-surface datum.

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

PERIOD OF RECORD.--January 1963 to June 2005 (discontinued). Continuous record began December 1966.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 1.19 ft below land-surface datum, Sept. 16, 1999; lowest water level recorded, 10.44 ft below land-surface datum, Jan. 3, 1966.

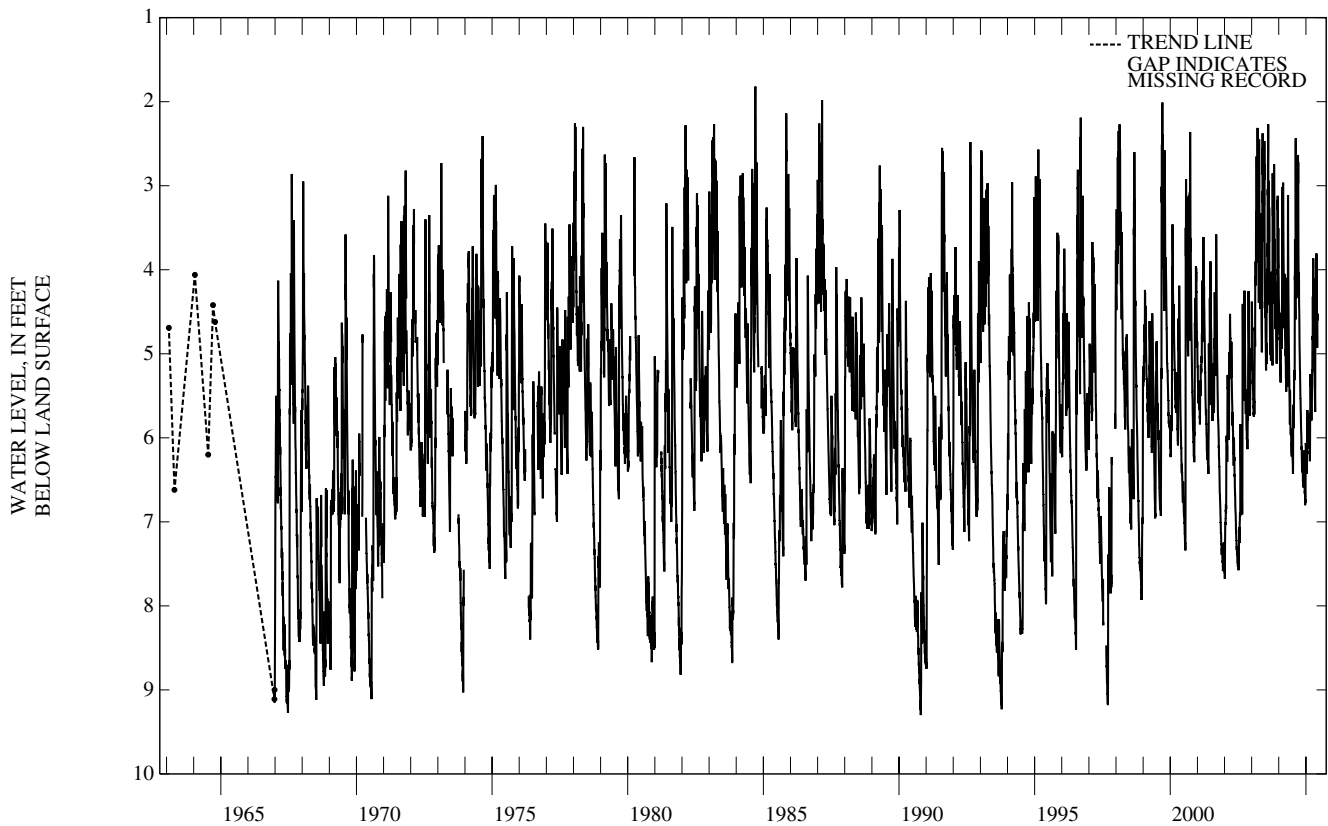
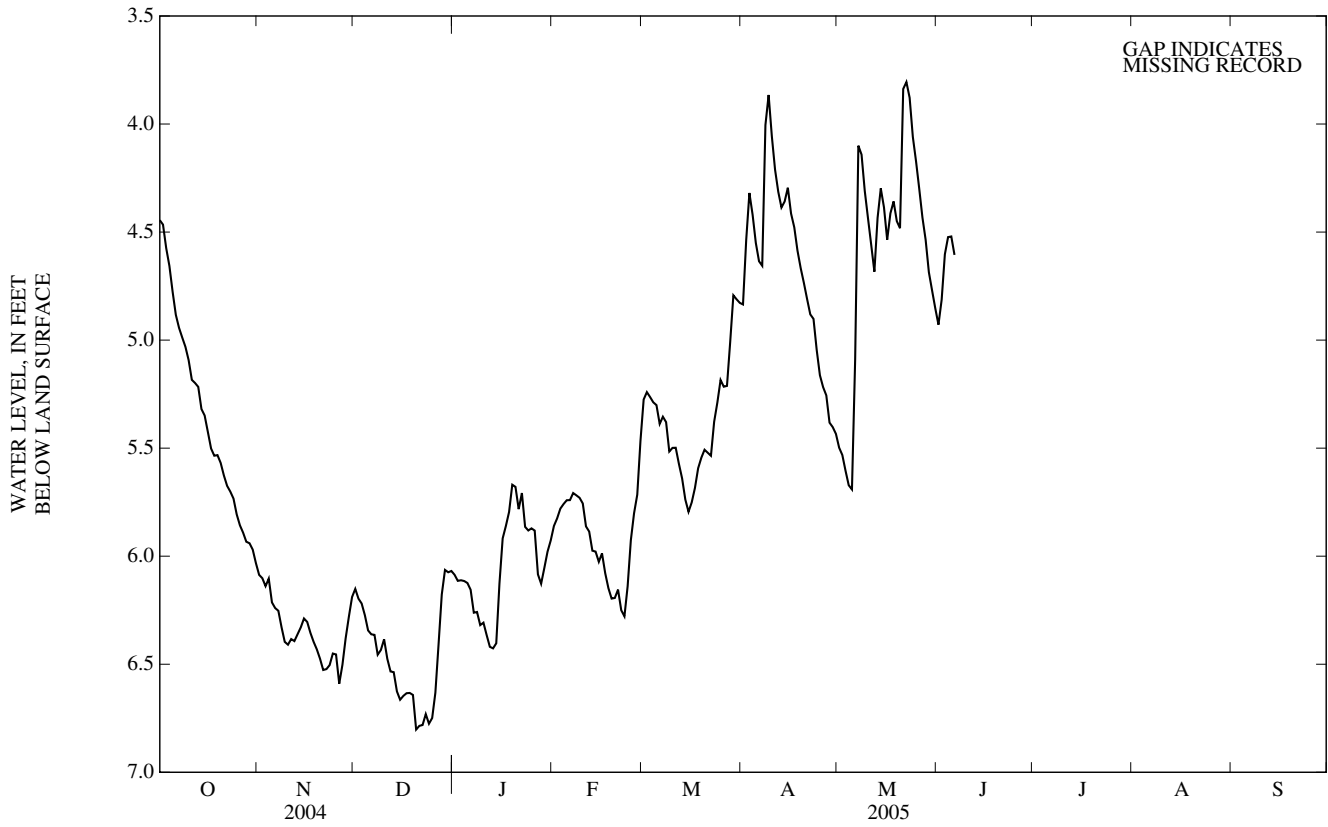
DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.45	6.09	6.15	6.09	5.86	5.27	4.83	5.50	4.93	---	---	---
2	4.47	6.10	6.20	6.11	5.83	5.24	4.54	5.53	4.81	---	---	---
3	4.57	6.14	6.22	6.11	5.78	5.26	4.32	5.60	4.60	---	---	---
4	4.66	6.10	6.27	6.12	5.76	5.29	4.42	5.67	4.52	---	---	---
5	4.78	6.21	6.34	6.12	5.74	5.30	4.55	5.69	4.52	---	---	---
6	4.88	6.24	6.36	6.16	5.74	5.39	4.63	5.09	4.61	---	---	---
7	4.94	6.25	6.36	6.26	5.71	5.35	4.66	4.10	---	---	---	---
8	4.99	6.33	6.46	6.26	5.72	5.38	4.00	4.14	---	---	---	---
9	5.03	6.40	6.43	6.32	5.73	5.52	3.87	4.31	---	---	---	---
10	5.09	6.41	6.38	6.31	5.76	5.50	4.06	4.43	---	---	---	---
11	5.18	6.38	6.47	6.37	5.86	5.50	4.21	4.56	---	---	---	---
12	5.20	6.39	6.53	6.42	5.89	5.57	4.31	4.68	---	---	---	---
13	5.22	6.36	6.54	6.43	5.97	5.64	4.39	4.43	---	---	---	---
14	5.32	6.33	6.63	6.40	5.98	5.74	4.36	4.30	---	---	---	---
15	5.35	6.29	6.66	6.13	6.03	5.79	4.29	4.39	---	---	---	---
16	5.42	6.30	6.65	5.92	5.99	5.75	4.41	4.54	---	---	---	---
17	5.50	6.35	6.63	5.86	6.08	5.68	4.48	4.41	---	---	---	---
18	5.54	6.40	6.63	5.80	6.15	5.59	4.59	4.36	---	---	---	---
19	5.53	6.43	6.64	5.67	6.20	5.54	4.67	4.45	---	---	---	---
20	5.57	6.47	6.80	5.68	6.19	5.51	4.74	4.48	---	---	---	---
21	5.63	6.53	6.79	5.78	6.15	5.52	4.81	3.84	---	---	---	---
22	5.67	6.52	6.78	5.71	6.25	5.54	4.88	3.81	---	---	---	---
23	5.70	6.50	6.73	5.86	6.28	5.38	4.90	3.88	---	---	---	---
24	5.73	6.45	6.78	5.88	6.14	5.29	5.05	4.06	---	---	---	---
25	5.81	6.45	6.75	5.87	5.93	5.18	5.16	4.17	---	---	---	---
26	5.86	6.59	6.63	5.88	5.80	5.22	5.22	4.30	---	---	---	---
27	5.89	6.50	6.41	6.08	5.72	5.21	5.26	4.43	---	---	---	---
28	5.93	6.38	6.18	6.13	5.47	5.01	5.38	4.54	---	---	---	---
29	5.94	6.28	6.06	6.05	---	4.79	5.40	4.69	---	---	---	---
30	5.97	6.19	6.07	5.98	---	4.81	5.43	4.77	---	---	---	---
31	6.03	---	6.07	5.93	---	4.83	---	4.85	---	---	---	---

WTR YR 2005 MEAN 5.57 HIGH 3.81 LOW 6.80

GROUND-WATER LEVELS  
ONslow COUNTY—Continued

344425077272501. Local number, NC-52; County number, ON-035.



GROUND-WATER LEVELS  
 ONSLOW COUNTY—Continued

343512077265601. County number, ON-218; Rifle Range Well RR-97A.

LOCATION.--Lat 34°35'13", long 77°26'55", Hydrologic Unit 03030001, at U.S. Marine Corps Base, Camp Lejeune Rifle Range. Owner: U.S. Marine Corps.  
 AQUIFER.--Castle Hayne aquifer.

WELL CHARACTERISTICS.--Drilled supply well, depth 437 ft, diameter 8 in., cased to 365 ft, screened interval from 365 to 395 ft and 415 to 425 ft.

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

DATUM.--Land-surface datum is 50 ft above NGVD of 1929 (from topographic map). Measuring point: Top of shelter floor, 1.97 ft above land-surface datum.

REMARKS.--Well is part of U.S. Marine Corps Base, Camp Lejeune, North Carolina, Water Resources Network project.

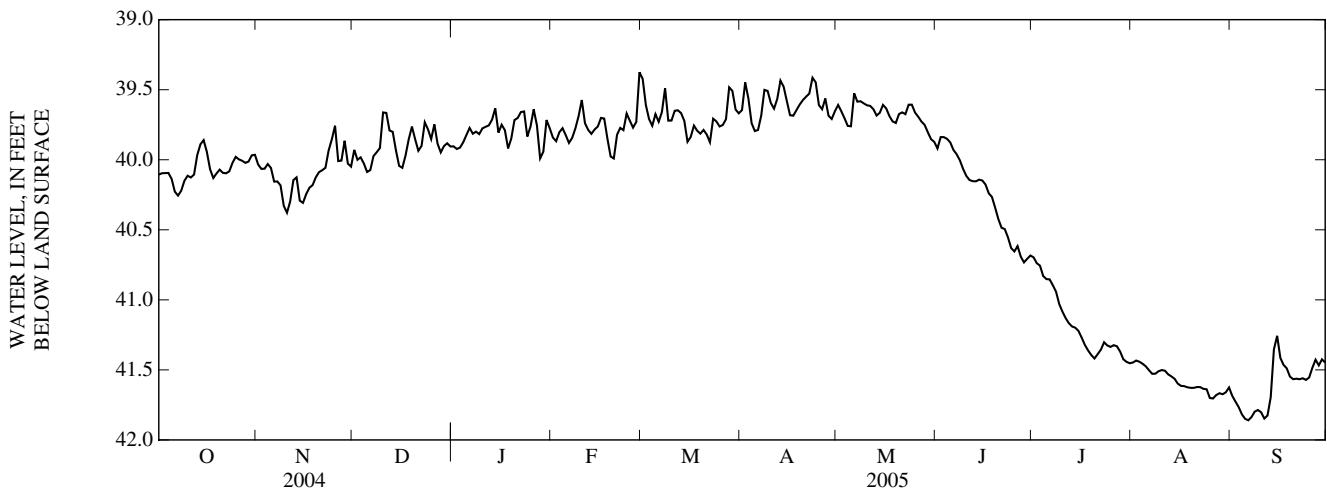
PERIOD OF RECORD.--October 1994 to October 2005 (discontinued). Prior to October 1, 1997 published as ON-292, Rifle Range Well RR-97.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 36.19 ft below land-surface datum, Mar. 23, 1995; lowest water level recorded, 42.69 ft below land-surface datum, Aug. 22, 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	40.11	40.03	39.93	39.90	39.84	39.42	39.65	39.61	39.92	40.70	41.45	41.69
2	40.10	40.07	40.00	39.92	39.87	39.61	39.45	39.65	39.84	40.74	41.43	41.73
3	40.10	40.06	39.98	39.91	39.80	39.71	39.56	39.70	39.84	40.76	41.44	41.77
4	40.09	40.03	40.03	39.88	39.77	39.76	39.74	39.76	39.85	40.83	41.46	41.82
5	40.14	40.06	40.09	39.82	39.82	39.67	39.80	39.76	39.88	40.85	41.47	41.85
6	40.23	40.16	40.07	39.77	39.88	39.73	39.79	39.53	39.93	40.85	41.50	41.86
7	40.26	40.16	39.97	39.81	39.84	39.66	39.69	39.59	39.96	40.90	41.53	41.84
8	40.22	40.18	39.95	39.80	39.78	39.49	39.50	39.58	40.00	40.94	41.53	41.80
9	40.15	40.33	39.92	39.82	39.69	39.72	39.51	39.60	40.07	41.03	41.51	41.79
10	40.11	40.38	39.66	39.78	39.57	39.72	39.59	39.61	40.12	41.08	41.50	41.80
11	40.13	40.30	39.67	39.76	39.74	39.65	39.64	39.62	40.14	41.13	41.51	41.85
12	40.11	40.15	39.79	39.75	39.79	39.65	39.57	39.64	40.15	41.17	41.53	41.83
13	39.97	40.13	39.80	39.71	39.82	39.67	39.44	39.68	40.15	41.19	41.55	41.70
14	39.89	40.29	39.93	39.63	39.78	39.72	39.48	39.66	40.14	41.20	41.56	41.35
15	39.86	40.31	40.04	39.81	39.76	39.87	39.58	39.61	40.15	41.22	41.60	41.26
16	39.94	40.24	40.06	39.75	39.70	39.84	39.68	39.63	40.18	41.27	41.61	41.41
17	40.07	40.20	39.97	39.79	39.71	39.76	39.69	39.69	40.24	41.32	41.62	41.46
18	40.13	40.18	39.85	39.92	39.85	39.79	39.65	39.73	40.27	41.36	41.62	41.49
19	40.10	40.13	39.76	39.85	39.98	39.81	39.61	39.74	40.34	41.39	41.63	41.55
20	40.07	40.09	39.85	39.72	39.99	39.79	39.57	39.67	40.42	41.42	41.63	41.57
21	40.09	40.07	39.94	39.70	39.82	39.82	39.55	39.66	40.49	41.39	41.62	41.56
22	40.10	40.06	39.90	39.66	39.77	39.88	39.53	39.67	40.49	41.36	41.62	41.57
23	40.08	39.93	39.73	39.66	39.79	39.71	39.41	39.61	40.55	41.30	41.64	41.56
24	40.02	39.85	39.78	39.83	39.67	39.73	39.45	39.61	40.63	41.33	41.64	41.57
25	39.98	39.76	39.85	39.76	39.72	39.76	39.61	39.66	40.65	41.34	41.70	41.55
26	40.00	40.01	39.75	39.64	39.77	39.75	39.64	39.69	40.62	41.32	41.70	41.48
27	40.01	40.01	39.89	39.75	39.73	39.71	39.56	39.73	40.69	41.33	41.68	41.43
28	40.02	39.86	39.95	39.99	39.38	39.48	39.69	39.75	40.73	41.37	41.67	41.47
29	40.01	40.03	39.90	39.94	---	39.51	39.71	39.80	40.71	41.42	41.67	41.42
30	39.97	40.05	39.88	39.72	---	39.64	39.65	39.85	40.68	41.44	41.66	41.45
31	39.96	---	39.91	39.78	---	39.67	---	39.87	---	41.45	41.63	---

WTR YR 2005 MEAN 40.27 HIGH 39.38 LOW 41.86



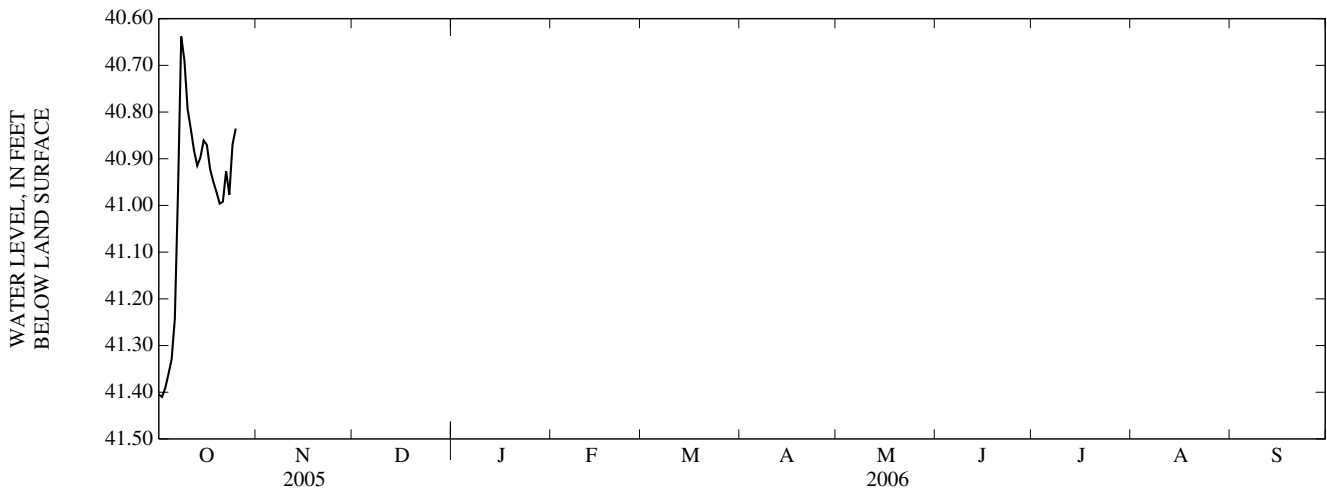
GROUND-WATER LEVELS

ONSIOW COUNTY—Continued

343512077265601. County number, ON-218; Rifle Range Well RR-97A.

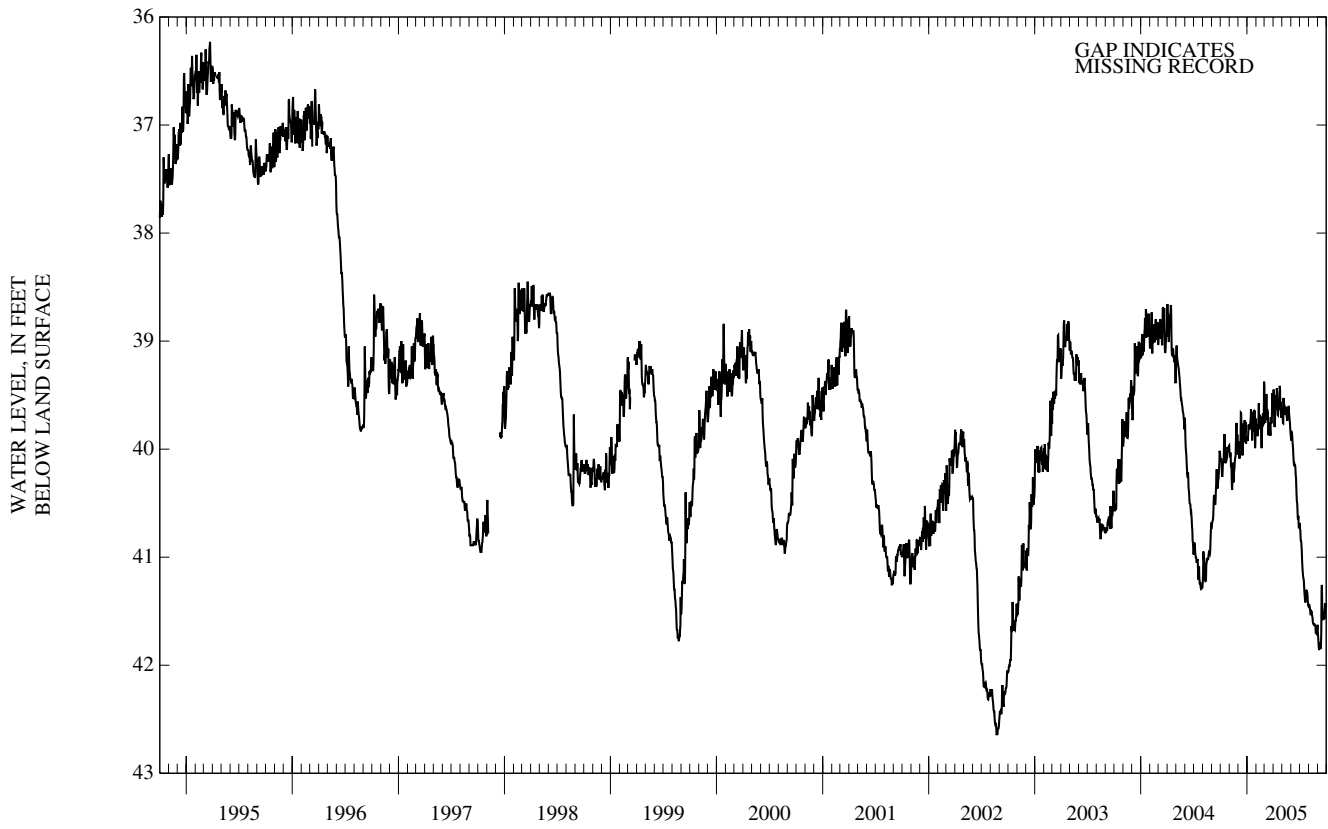
DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE  
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41.40	---	---	---	---	---	---	---	---	---	---	---
2	41.41	---	---	---	---	---	---	---	---	---	---	---
3	41.39	---	---	---	---	---	---	---	---	---	---	---
4	41.36	---	---	---	---	---	---	---	---	---	---	---
5	41.33	---	---	---	---	---	---	---	---	---	---	---
6	41.24	---	---	---	---	---	---	---	---	---	---	---
7	40.97	---	---	---	---	---	---	---	---	---	---	---
8	40.64	---	---	---	---	---	---	---	---	---	---	---
9	40.69	---	---	---	---	---	---	---	---	---	---	---
10	40.79	---	---	---	---	---	---	---	---	---	---	---
11	40.84	---	---	---	---	---	---	---	---	---	---	---
12	40.88	---	---	---	---	---	---	---	---	---	---	---
13	40.91	---	---	---	---	---	---	---	---	---	---	---
14	40.90	---	---	---	---	---	---	---	---	---	---	---
15	40.86	---	---	---	---	---	---	---	---	---	---	---
16	40.87	---	---	---	---	---	---	---	---	---	---	---
17	40.92	---	---	---	---	---	---	---	---	---	---	---
18	40.95	---	---	---	---	---	---	---	---	---	---	---
19	40.97	---	---	---	---	---	---	---	---	---	---	---
20	41.00	---	---	---	---	---	---	---	---	---	---	---
21	40.99	---	---	---	---	---	---	---	---	---	---	---
22	40.93	---	---	---	---	---	---	---	---	---	---	---
23	40.98	---	---	---	---	---	---	---	---	---	---	---
24	40.87	---	---	---	---	---	---	---	---	---	---	---
25	40.84	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
WTR YR	2006	MEAN 41.00	HIGH 40.64	LOW 41.41								



GROUND-WATER LEVELS  
ONslow COUNTY—Continued

343512077265601. County number, ON-218; Rifle Range Well RR-97A.

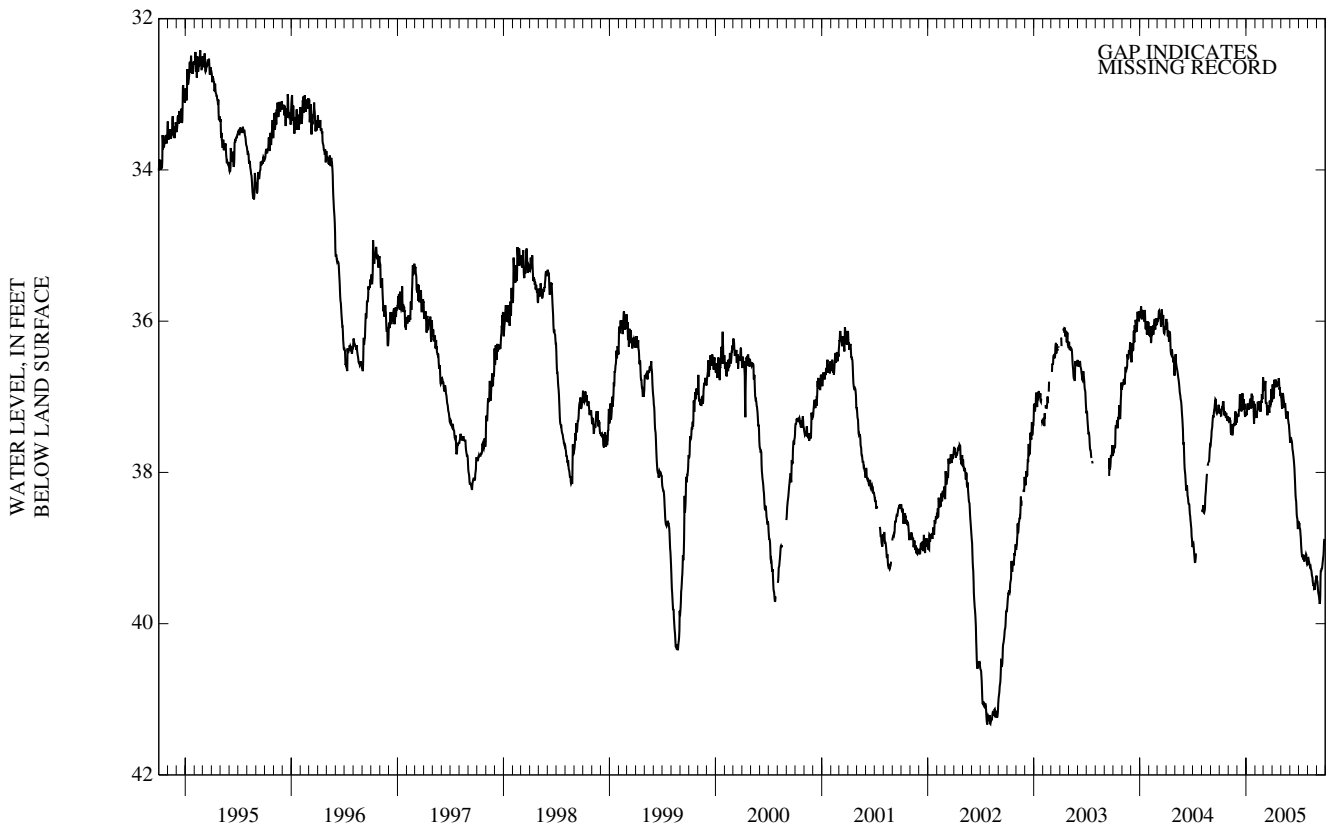
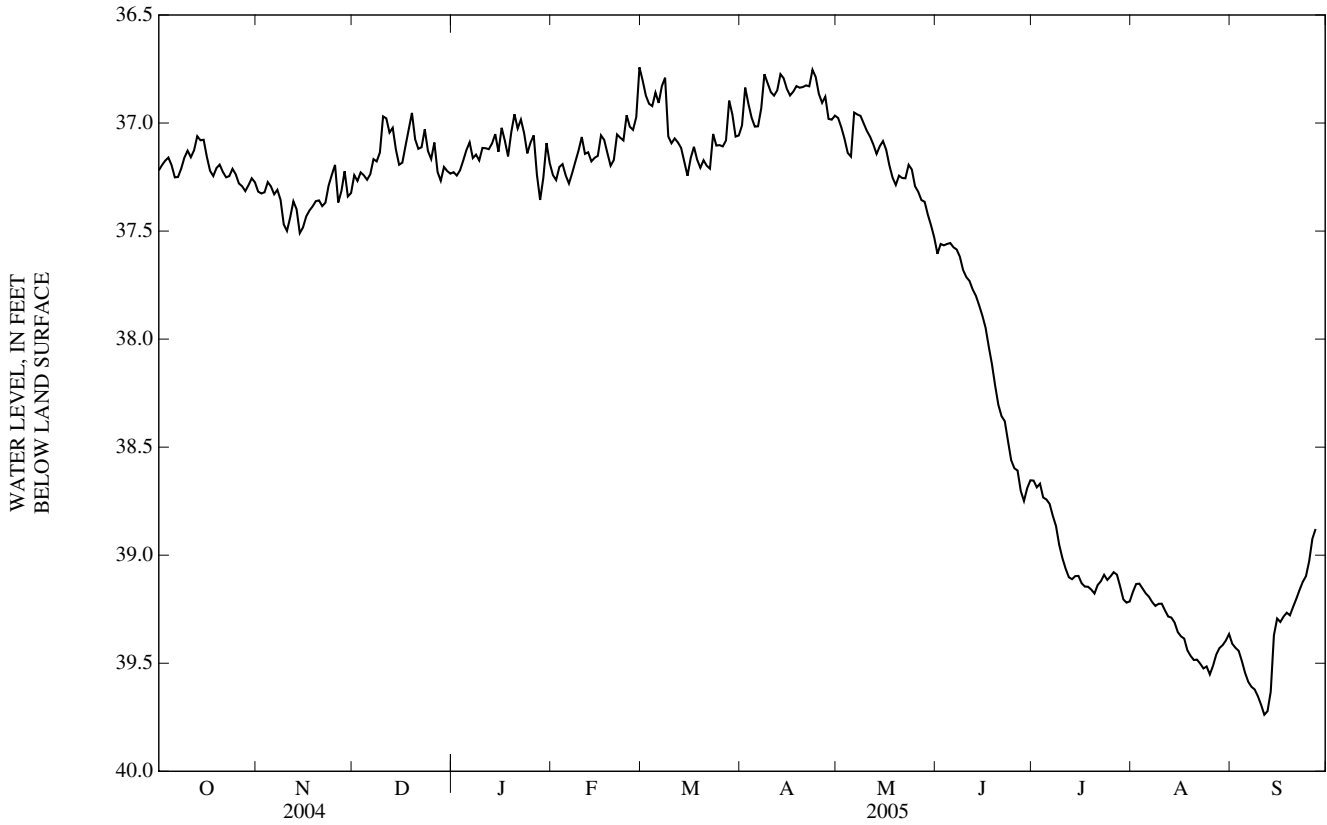






GROUND-WATER LEVELS  
ONslow COUNTY—Continued

343641077290103. County number, ON-227; DENR Dixon Tower Research Station well Y25q3.



## GROUND-WATER LEVELS

196

## ON SLOW COUNTY—Continued

343641077290106. County number, ON-230; DENR Dixon Tower Research Station well Y25q6.

LOCATION.--Lat 34°36'40.5", long 77°28'58.9", Hydrologic Unit 03030001, 1.5 mi. north of Dixon on U.S. Highway 17. Owner: DENR (North Carolina Department of Environment and Natural Resources).

AQUIFER.--Surficial aquifer.

WELL CHARACTERISTICS.--Drilled observation well, depth 22.0 ft, diameter 4 in., cased to 18.4 ft, screened interval from 18.4 to 22.0 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, (levels by DENR). Measuring point: Top of shelter floor, 2.52 ft above land-surface datum; revised from 2.10 ft above land-surface datum July 21, 1999.

REMARKS.--Well is part of U.S. Marine Corps Base, Camp Lejeune, North Carolina, Water Resources Network project.

PERIOD OF RECORD.--October 1994 to September 2005 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 6.37 ft below land-surface datum, Jan. 22, 1995; lowest water level recorded, 12.44 ft below land-surface datum, Aug. 25, 26, 2002.

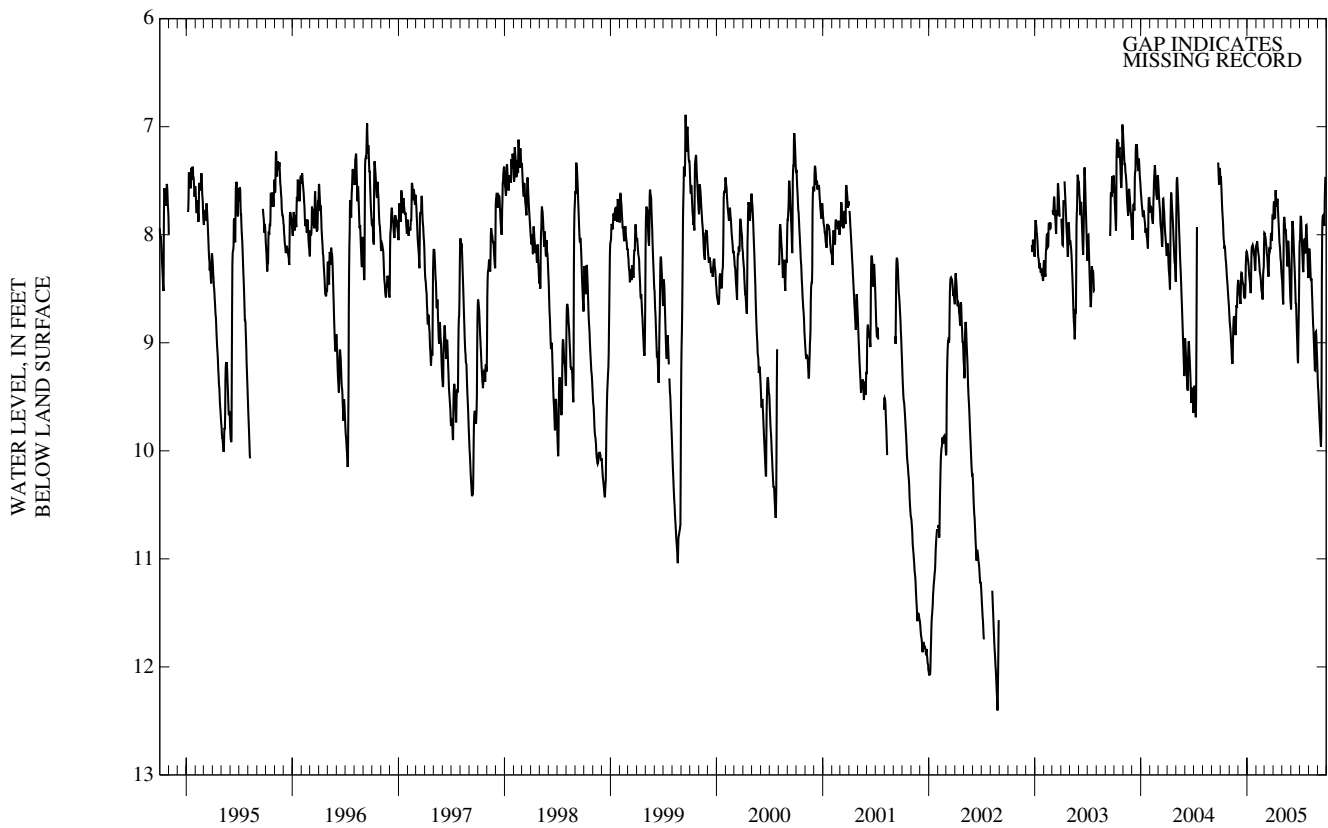
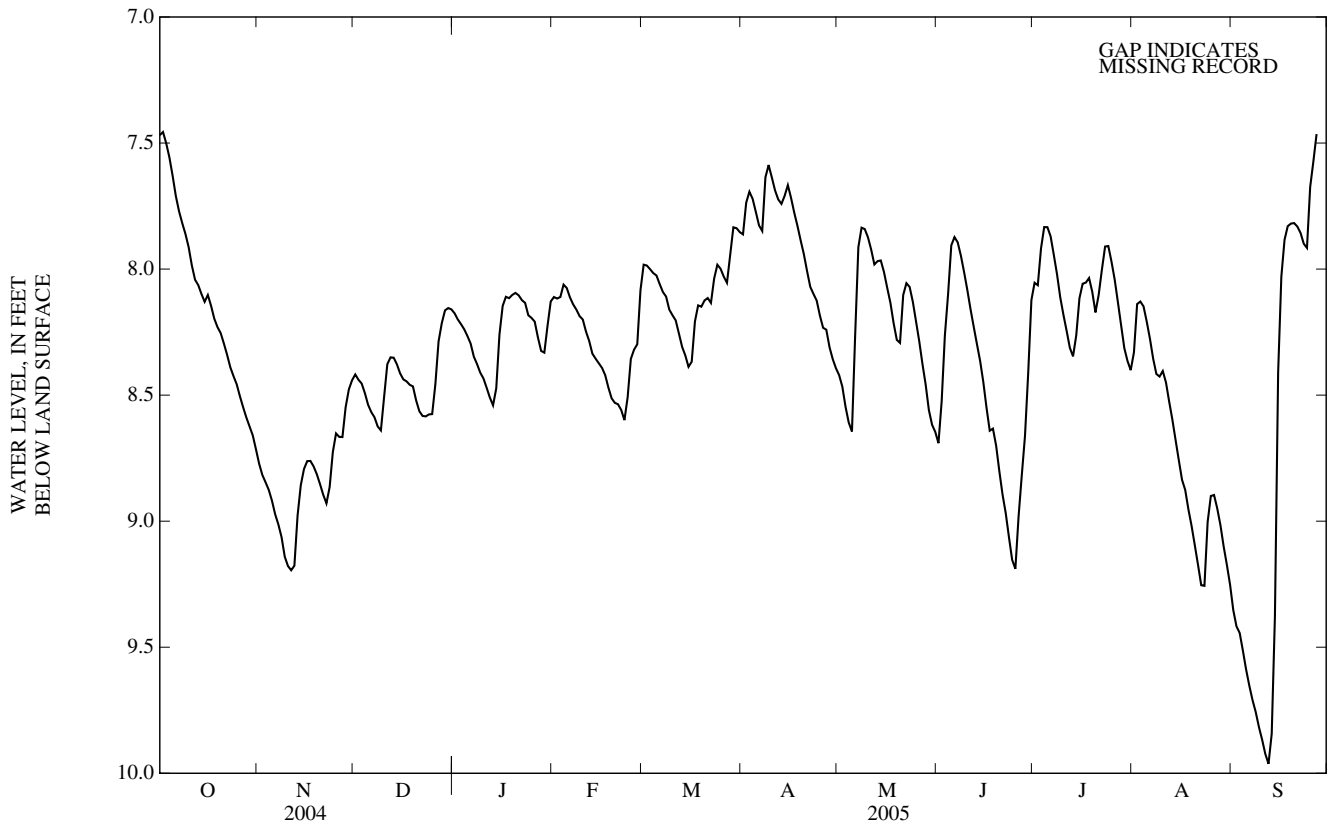
DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.47	8.77	8.42	8.18	8.11	7.98	7.86	8.42	8.69	8.05	8.33	9.35
2	7.46	8.82	8.44	8.20	8.12	7.99	7.74	8.47	8.52	8.06	8.14	9.42
3	7.50	8.85	8.45	8.22	8.11	8.00	7.69	8.55	8.26	7.92	8.13	9.44
4	7.56	8.88	8.49	8.24	8.06	8.02	7.72	8.61	8.10	7.83	8.15	9.51
5	7.63	8.92	8.54	8.27	8.08	8.03	7.77	8.64	7.91	7.83	8.21	9.59
6	7.71	8.97	8.57	8.30	8.11	8.06	7.83	8.26	7.87	7.87	8.28	9.65
7	7.77	9.01	8.59	8.35	8.14	8.09	7.85	7.91	7.89	7.94	8.36	9.71
8	7.82	9.06	8.62	8.38	8.16	8.11	7.64	7.84	7.95	8.02	8.42	9.76
9	7.86	9.14	8.64	8.41	8.19	8.16	7.59	7.84	8.01	8.11	8.43	9.82
10	7.91	9.18	8.51	8.43	8.20	8.18	7.64	7.87	8.08	8.18	8.40	9.87
11	7.99	9.19	8.38	8.47	8.25	8.20	7.69	7.92	8.16	8.25	8.45	9.92
12	8.04	9.18	8.35	8.51	8.29	8.26	7.72	7.98	8.23	8.31	8.53	9.96
13	8.06	8.98	8.35	8.54	8.34	8.31	7.74	7.97	8.30	8.35	8.60	9.84
14	8.10	8.86	8.38	8.47	8.36	8.34	7.71	7.97	8.36	8.26	8.68	9.38
15	8.13	8.79	8.41	8.26	8.37	8.39	7.67	8.01	8.45	8.12	8.76	8.41
16	8.10	8.76	8.44	8.15	8.39	8.37	7.72	8.07	8.55	8.06	8.84	8.03
17	8.15	8.76	8.45	8.11	8.42	8.21	7.78	8.13	8.64	8.05	8.88	7.88
18	8.20	8.78	8.46	8.12	8.47	8.14	7.83	8.21	8.63	8.04	8.95	7.83
19	8.23	8.81	8.47	8.10	8.51	8.15	7.89	8.28	8.70	8.09	9.02	7.82
20	8.25	8.85	8.52	8.09	8.53	8.12	7.94	8.29	8.80	8.17	9.10	7.82
21	8.30	8.89	8.56	8.10	8.54	8.11	8.01	8.10	8.89	8.10	9.17	7.83
22	8.34	8.93	8.58	8.12	8.56	8.13	8.07	8.06	8.97	8.00	9.25	7.86
23	8.39	8.87	8.58	8.13	8.60	8.04	8.10	8.07	9.06	7.91	9.26	7.90
24	8.42	8.73	8.58	8.18	8.51	7.98	8.13	8.13	9.15	7.91	9.00	7.92
25	8.46	8.65	8.58	8.19	8.36	8.00	8.18	8.21	9.19	7.97	8.90	7.67
26	8.50	8.67	8.46	8.21	8.32	8.03	8.23	8.29	8.98	8.04	8.90	7.57
27	8.55	8.67	8.29	8.27	8.30	8.05	8.24	8.38	8.82	8.13	8.95	7.46
28	8.59	8.55	8.21	8.32	8.08	7.94	8.31	8.46	8.66	8.22	9.02	---
29	8.62	8.48	8.16	8.33	---	7.83	8.36	8.56	8.41	8.31	9.10	---
30	8.66	8.44	8.15	8.22	---	7.84	8.39	8.62	8.12	8.37	9.17	---
31	8.71	---	8.16	8.13	---	7.85	---	8.65	---	8.40	9.25	---

WTR YR 2005 MEAN 8.35 HIGH 7.46 LOW 9.96

GROUND-WATER LEVELS  
ONSLow COUNTY—Continued

343641077290106. County number, ON-230; DENR Dixon Tower Research Station well Y25q6.



## GROUND-WATER LEVELS

198

## ONslow COUNTY—Continued

344139077211201. County number, ON-255; DENR Hadnot Point Research Station well X24s1.

LOCATION.--Lat 34°41'30", long 77°21'03", Hydrologic Unit 03030001, at Camp Lejeune, 1.6 mi south of intersection of Brewster Boulevard and Stone Street Extension, on Stone Street Extension, near tack shop, in pasture. Owner: DENR (North Carolina Department of Environment and Natural Resources).

AQUIFER.--Castle Hayne aquifer.

WELL CHARACTERISTICS.--Drilled observation well, depth 90 ft, diameter 4 in., cased to 80 ft, screened interval from 80 to 90 ft.

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

DATUM.--Land-surface datum is 18.63 ft above NGVD of 1929, (levels by DENR). Measuring point: Top of shelter floor 1.32 ft above land-surface datum.

REMARKS.--Well is part of U.S. Marine Corps Base, Camp Lejeune, North Carolina, Water Resources Network project.

PERIOD OF RECORD.--October 1994 to July 2005 (discontinued).

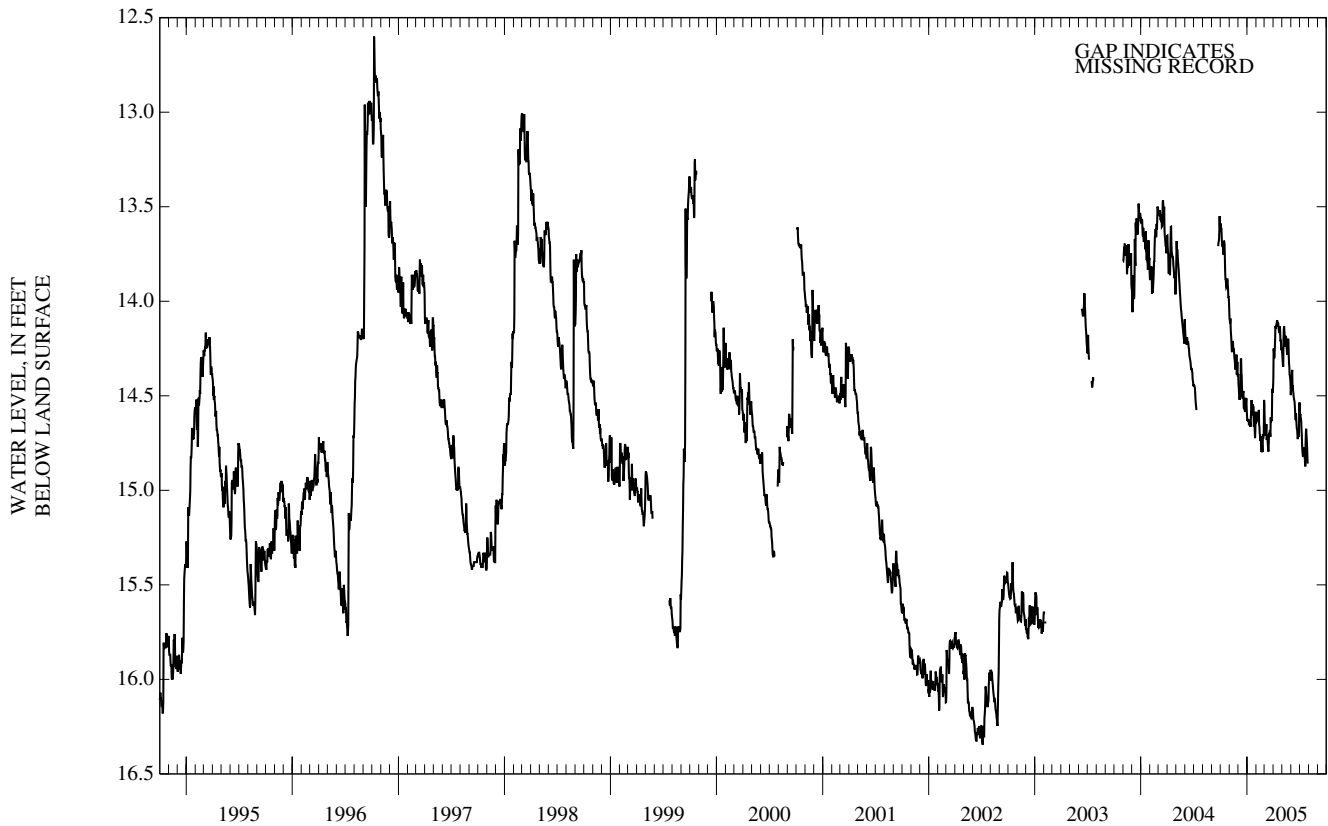
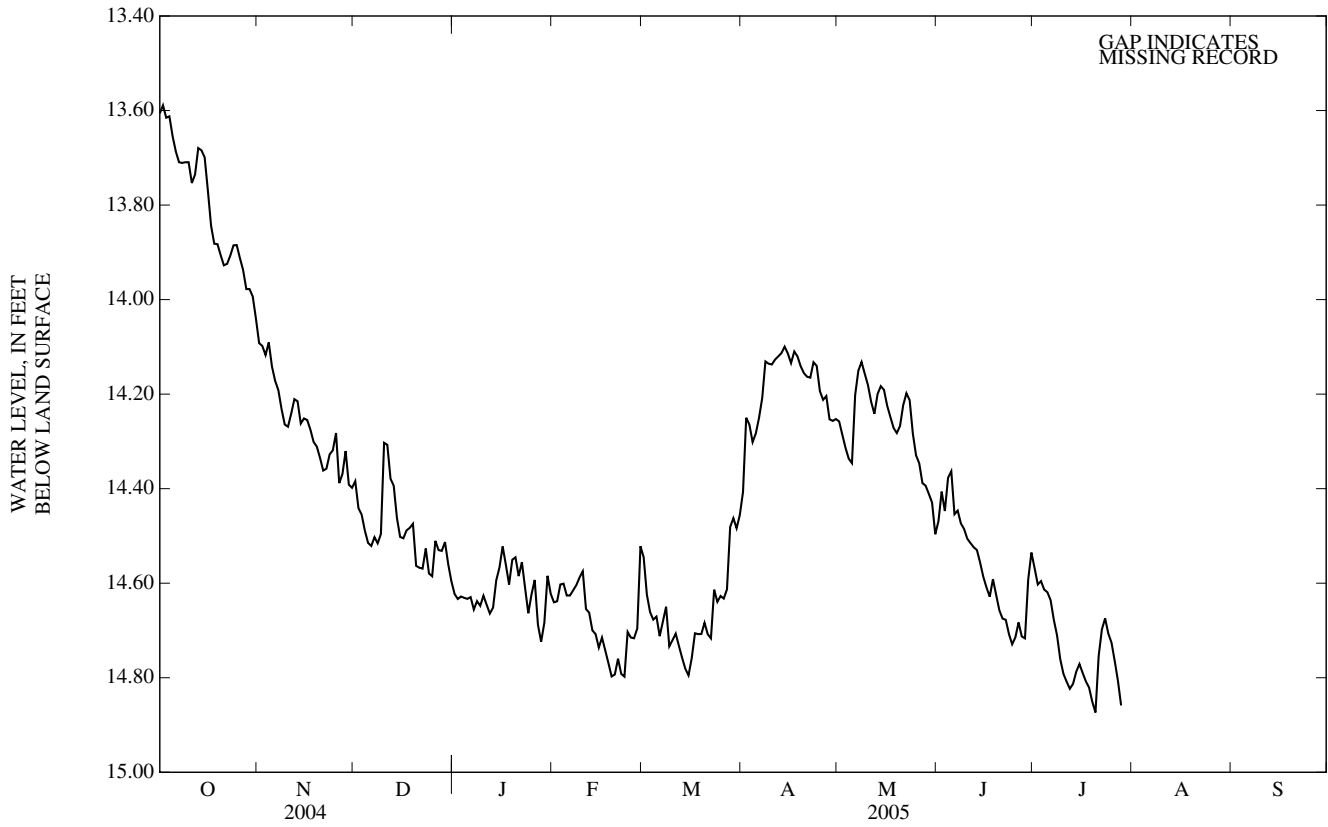
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 12.36 ft below land-surface datum, Oct. 8, 1996; lowest water level recorded, 16.37 ft below land-surface datum, July 5, 2002.

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	13.61	14.09	14.38	14.62	14.64	14.54	14.41	14.26	14.47	14.57	---	---	
2	13.59	14.10	14.44	14.63	14.64	14.62	14.25	14.29	14.41	14.60	---	---	
3	13.62	14.12	14.46	14.63	14.60	14.66	14.26	14.31	14.45	14.60	---	---	
4	13.61	14.09	14.49	14.63	14.60	14.68	14.30	14.34	14.38	14.61	---	---	
5	13.65	14.14	14.51	14.63	14.63	14.67	14.28	14.35	14.36	14.62	---	---	
6	13.69	14.17	14.52	14.63	14.63	14.71	14.25	14.20	14.45	14.64	---	---	
7	13.71	14.19	14.50	14.66	14.62	14.68	14.21	14.15	14.45	14.68	---	---	
8	13.71	14.23	14.52	14.64	14.60	14.65	14.13	14.13	14.47	14.71	---	---	
9	13.71	14.26	14.50	14.65	14.59	14.73	14.14	14.16	14.49	14.76	---	---	
10	13.71	14.27	14.30	14.63	14.57	14.72	14.14	14.18	14.51	14.79	---	---	
11	13.75	14.24	14.31	14.65	14.65	14.71	14.13	14.22	14.52	14.81	---	---	
12	13.74	14.21	14.38	14.66	14.66	14.73	14.12	14.24	14.52	14.82	---	---	
13	13.68	14.22	14.39	14.65	14.70	14.76	14.11	14.20	14.53	14.81	---	---	
14	13.68	14.26	14.46	14.59	14.71	14.78	14.10	14.18	14.56	14.79	---	---	
15	13.70	14.25	14.50	14.57	14.74	14.79	14.11	14.19	14.59	14.77	---	---	
16	13.77	14.25	14.51	14.52	14.71	14.76	14.13	14.22	14.61	14.79	---	---	
17	13.84	14.28	14.49	14.56	14.74	14.71	14.11	14.25	14.63	14.81	---	---	
18	13.88	14.30	14.48	14.60	14.77	14.71	14.12	14.27	14.59	14.82	---	---	
19	13.88	14.31	14.47	14.55	14.80	14.71	14.14	14.28	14.62	14.85	---	---	
20	13.91	14.33	14.56	14.55	14.79	14.68	14.16	14.27	14.66	14.87	---	---	
21	13.93	14.36	14.57	14.59	14.76	14.71	14.16	14.22	14.67	14.75	---	---	
22	13.92	14.36	14.57	14.56	14.79	14.72	14.17	14.20	14.68	14.70	---	---	
23	13.91	14.33	14.53	14.61	14.80	14.61	14.13	14.21	14.71	14.67	---	---	
24	13.89	14.32	14.58	14.66	14.70	14.64	14.14	14.28	14.73	14.71	---	---	
25	13.88	14.28	14.59	14.62	14.71	14.63	14.19	14.33	14.71	14.73	---	---	
26	13.91	14.39	14.51	14.59	14.72	14.63	14.21	14.35	14.68	14.76	---	---	
27	13.94	14.37	14.53	14.69	14.70	14.61	14.20	14.39	14.71	14.81	---	---	
28	13.98	14.32	14.53	14.72	14.52	14.48	14.25	14.39	14.72	14.86	---	---	
29	13.98	14.39	14.51	14.68	---	14.46	14.26	14.41	14.59	---	---	---	
30	13.99	14.40	14.56	14.58	---	14.48	14.25	14.43	14.54	---	---	---	
31	14.04	---	14.60	14.62	---	14.46	---	14.50	---	---	---	---	
WTR YR	2005	MEAN	14.42	HIGH	13.59	LOW	14.87						

GROUND-WATER LEVELS  
ON SLOW COUNTY—Continued

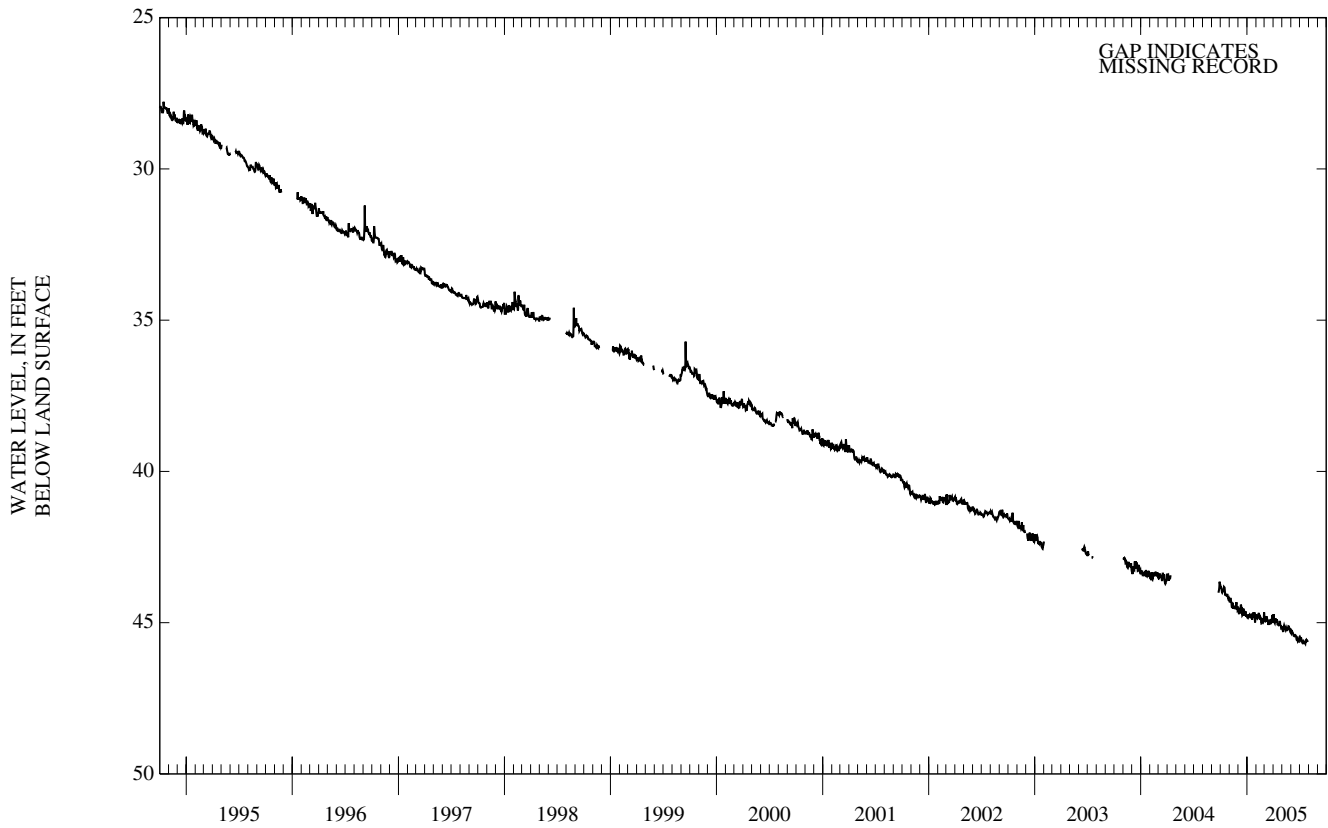
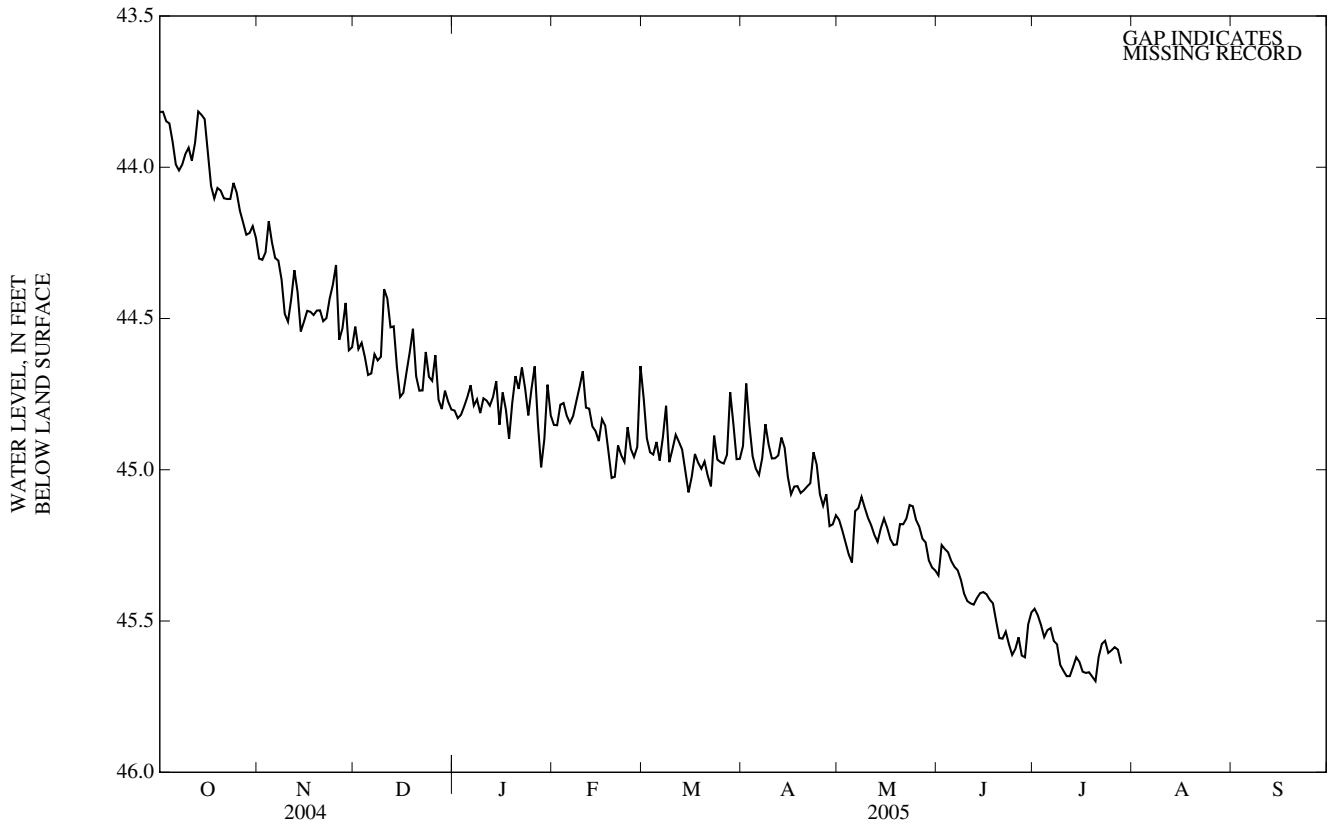
344139077211201. County number, ON-255; DENR Hadnot Point Research Station well X24s1





GROUND-WATER LEVELS  
ONslow COUNTY—Continued

344139077211202. County number, ON-256; DENR Hadnot Point Research Station well X24s2



## ONslow COUNTY—Continued

344139077211204. County number, ON-264; DENR Hadnot Point Research Station well X24s4.

LOCATION.--Lat 34°41'35", long 77°21'06", Hydrologic Unit 03030001, at Camp Lejeune, 1.6 mi south of intersection of Brewster Boulevard and Stone Street Extension, on Stone Street Extension, near tack shop, in pasture. Owner: DENR (North Carolina Department of Environment and Natural Resources).

AQUIFER.--Pee Dee aquifer of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation well, depth 527 ft, diameter 4 in., cased to 517 ft, screened interval from 517 to 527 ft.

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

DATUM.--Land-surface datum is 23.19 ft above NGVD of 1929, (levels by DENR). Measuring point: Top of shelter floor, 3.74 ft above land-surface datum.

REMARKS.--Well is part of U.S. Marine Corps Base, Camp Lejeune, North Carolina, Water Resources Network project.

PERIOD OF RECORD.--October 1994 to July 2005 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 12.14 ft below land-surface datum, Apr. 14-15, 2004; lowest water level recorded, 14.65 ft below land-surface datum, Sept. 25, 30, 2002.

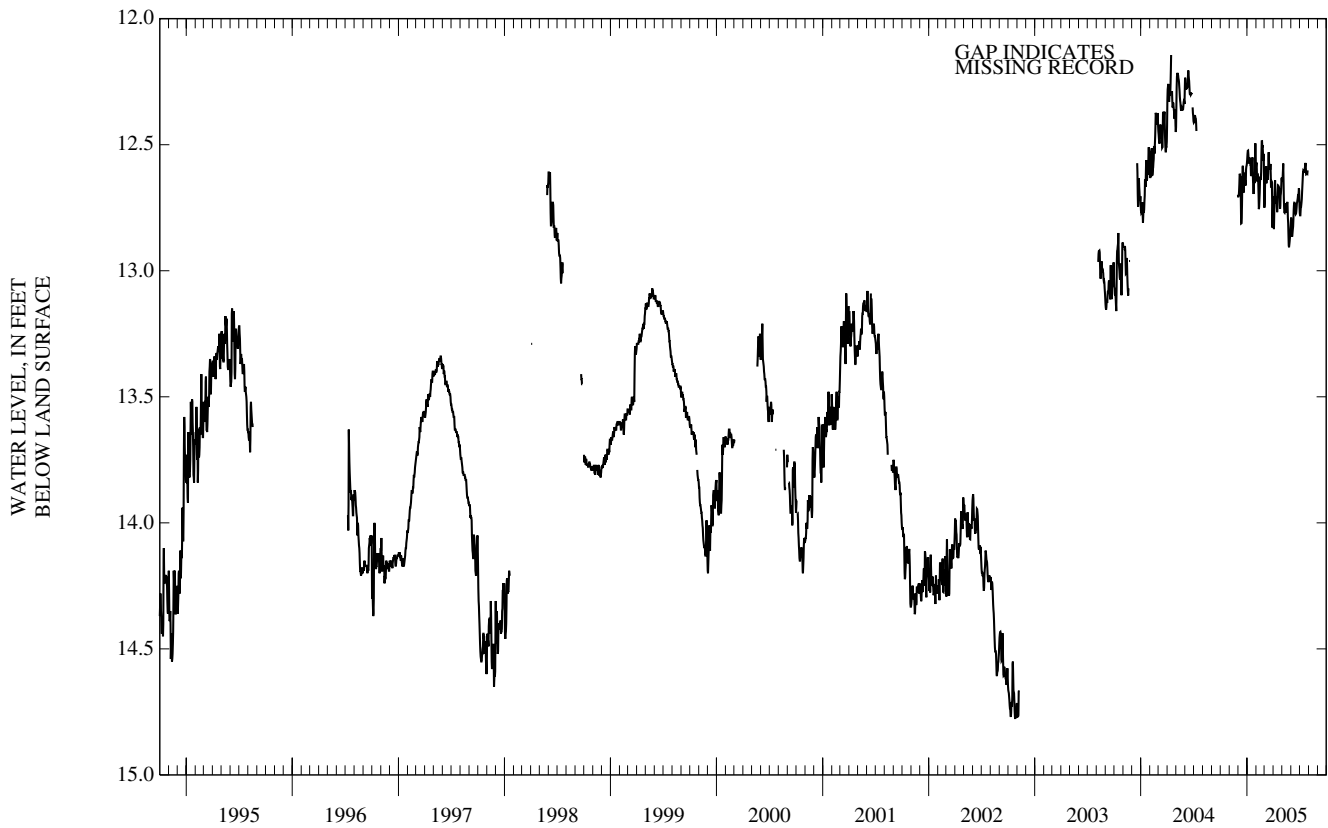
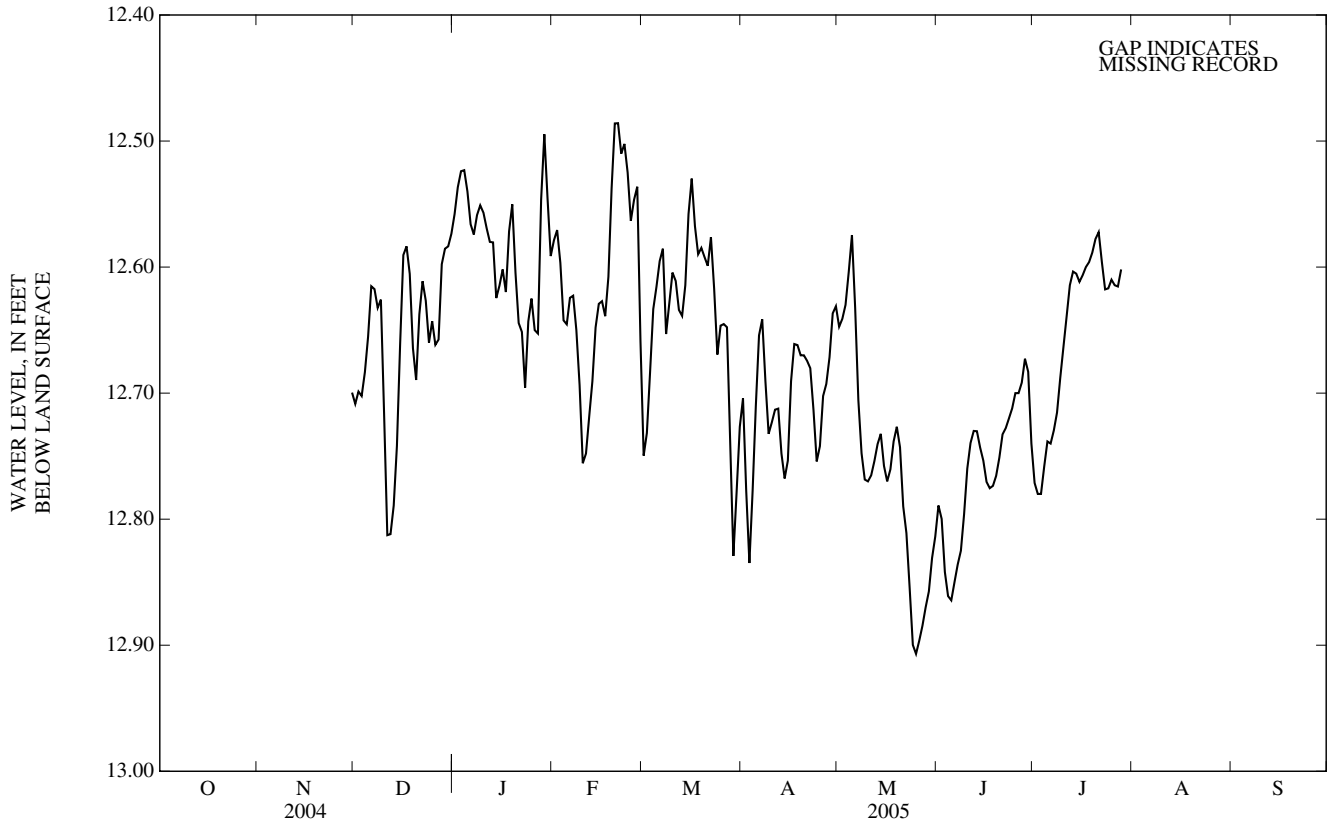
DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	---	---	12.71	12.56	12.58	12.75	12.70	12.65	12.79	12.77	---	---	
2	---	---	12.70	12.54	12.57	12.73	12.78	12.64	12.80	12.78	---	---	
3	---	---	12.70	12.52	12.60	12.68	12.83	12.63	12.84	12.78	---	---	
4	---	---	12.68	12.52	12.64	12.63	12.78	12.60	12.86	12.76	---	---	
5	---	---	12.66	12.54	12.65	12.62	12.71	12.57	12.86	12.74	---	---	
6	---	---	12.62	12.57	12.62	12.60	12.65	12.63	12.85	12.74	---	---	
7	---	---	12.62	12.57	12.62	12.59	12.64	12.71	12.84	12.73	---	---	
8	---	---	12.63	12.56	12.65	12.65	12.69	12.75	12.82	12.72	---	---	
9	---	---	12.63	12.55	12.69	12.63	12.73	12.77	12.80	12.69	---	---	
10	---	---	12.72	12.56	12.76	12.60	12.72	12.77	12.76	12.66	---	---	
11	---	---	12.81	12.57	12.75	12.61	12.71	12.77	12.74	12.64	---	---	
12	---	---	12.81	12.58	12.72	12.63	12.71	12.75	12.73	12.61	---	---	
13	---	---	12.79	12.58	12.69	12.64	12.75	12.74	12.73	12.60	---	---	
14	---	---	12.74	12.62	12.65	12.61	12.77	12.73	12.74	12.61	---	---	
15	---	---	12.66	12.61	12.63	12.56	12.75	12.76	12.75	12.61	---	---	
16	---	---	12.59	12.60	12.63	12.53	12.69	12.77	12.77	12.61	---	---	
17	---	---	12.58	12.62	12.64	12.57	12.66	12.76	12.78	12.60	---	---	
18	---	---	12.61	12.57	12.61	12.59	12.66	12.74	12.77	12.60	---	---	
19	---	---	12.66	12.55	12.54	12.58	12.67	12.73	12.77	12.59	---	---	
20	---	---	12.69	12.60	12.49	12.59	12.67	12.74	12.75	12.58	---	---	
21	---	---	12.64	12.64	12.49	12.60	12.67	12.79	12.73	12.57	---	---	
22	---	---	12.61	12.65	12.51	12.58	12.68	12.81	12.73	12.60	---	---	
23	---	---	12.63	12.70	12.50	12.62	12.71	12.85	12.72	12.62	---	---	
24	---	---	12.66	12.64	12.53	12.67	12.75	12.90	12.71	12.62	---	---	
25	---	---	12.64	12.62	12.56	12.65	12.74	12.91	12.70	12.61	---	---	
26	---	---	12.66	12.65	12.55	12.65	12.70	12.90	12.70	12.61	---	---	
27	---	---	12.66	12.65	12.54	12.65	12.69	12.88	12.69	12.62	---	---	
28	---	---	12.60	12.55	12.66	12.74	12.67	12.87	12.67	12.60	---	---	
29	---	---	12.59	12.49	---	12.83	12.64	12.86	12.68	---	---	---	
30	---	12.70	12.58	12.55	---	12.78	12.63	12.83	12.74	---	---	---	
31	---	---	12.57	12.59	---	12.73	---	12.81	---	---	---	---	
WTR YR	2005	MEAN	12.67	HIGH	12.49	LOW	12.91						



GROUND-WATER LEVELS  
ONSLow COUNTY—Continued

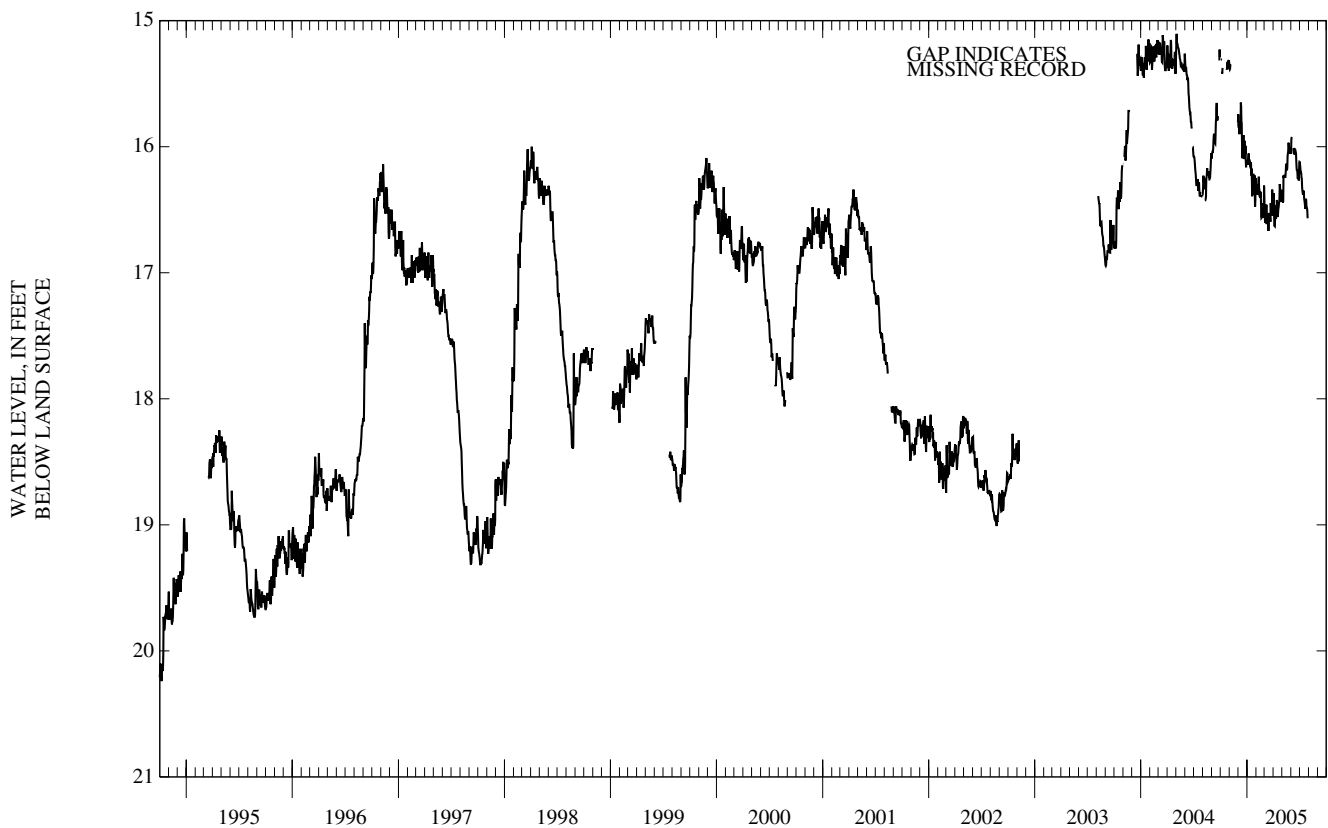
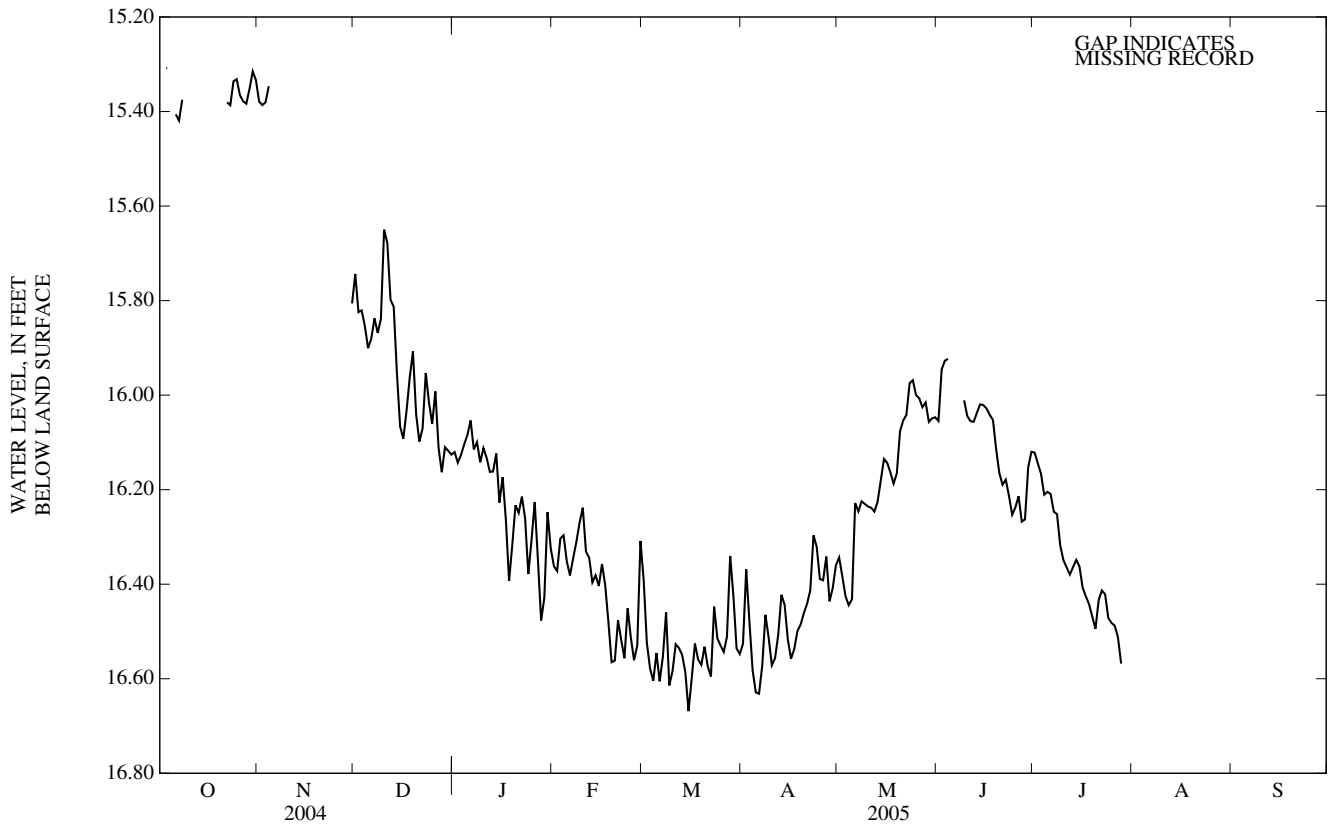
344139077211204. County number, ON-264; DENR Hadnot Point Research Station well X24s4.





GROUND-WATER LEVELS  
ONSLOW COUNTY—Continued

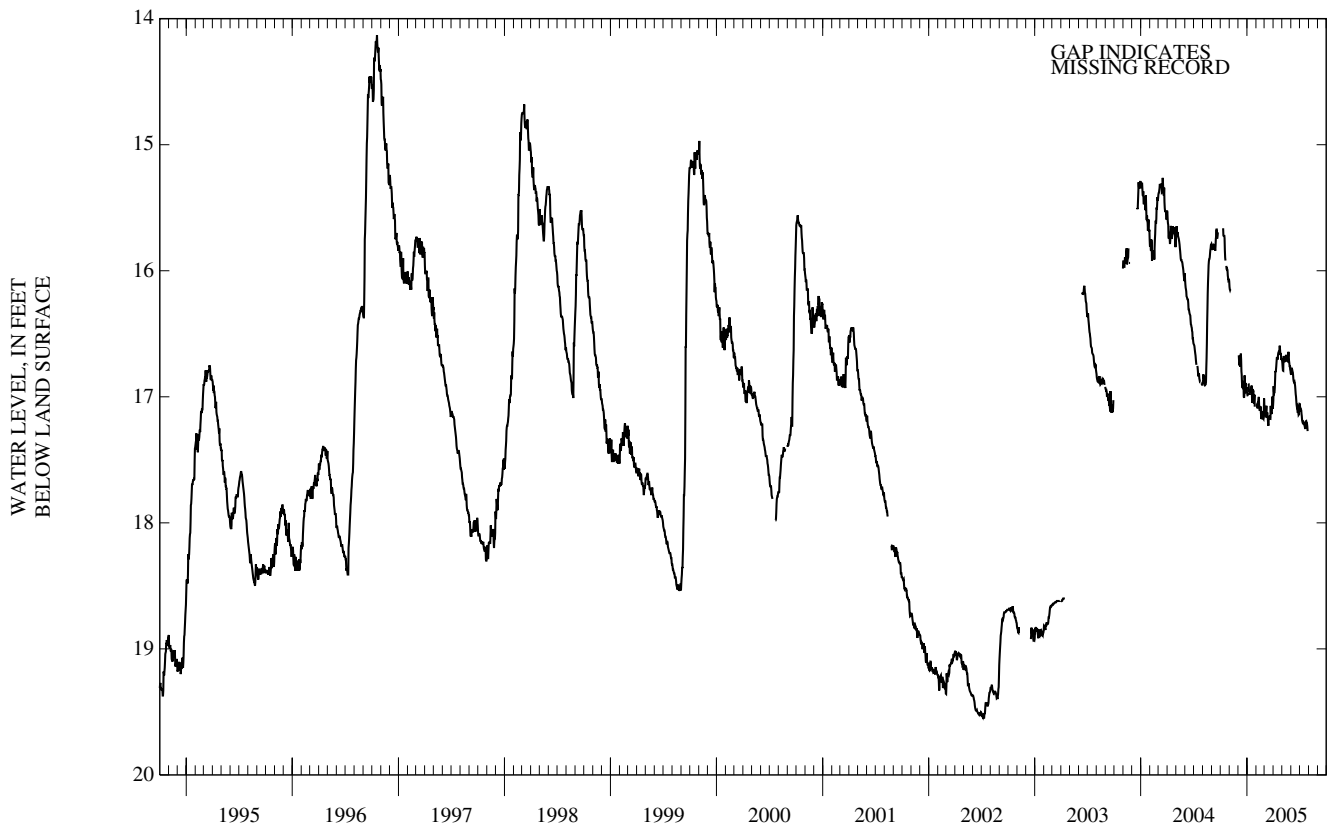
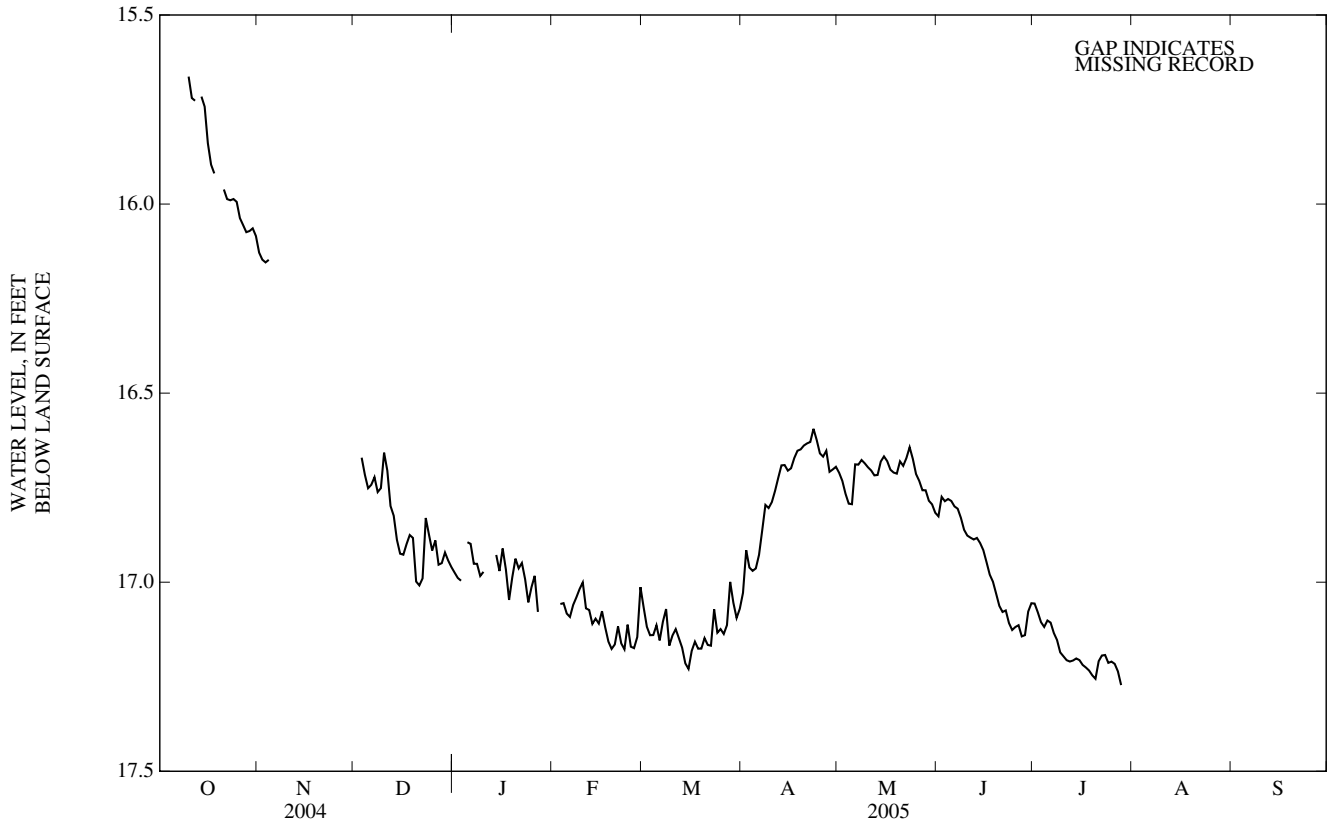
344139077211205. County number, ON-265; DENR Hadnot Point Research Station well X24s5.





GROUND-WATER LEVELS  
ONSLow COUNTY—Continued

344139077211206. County number, ON-266; DENR Hadnot Point Research Station well X24s6.



ONslow COUNTY—Continued

344139077211207. County number, ON-267; DENR Hadnot Point Research Station well X24s7.

LOCATION.--Lat 34°41'36", long 77°21'06", Hydrologic Unit 03030001, at Camp Lejeune, 1.6 mi south of intersection of Brewster Boulevard and Stone Street Extension, on Stone Street Extension, near tack shop, in pasture. Owner: DENR (North Carolina Department of Environment and Natural Resources).

AQUIFER.--Surficial aquifer.

WELL CHARACTERISTICS.--Drilled observation well, depth 40 ft, diameter 4 in., cased to 30 ft, 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 24.06 ft above NGVD of 1929, (levels by DENR). Measuring point: Top of shelter floor, 0.93 ft above land-surface datum.

REMARKS.--Well is part of U.S. Marine Corps Base, Camp Lejeune, North Carolina, Water Resources Network project.

PERIOD OF RECORD.--October 1994 to July 2005 (discontinued).

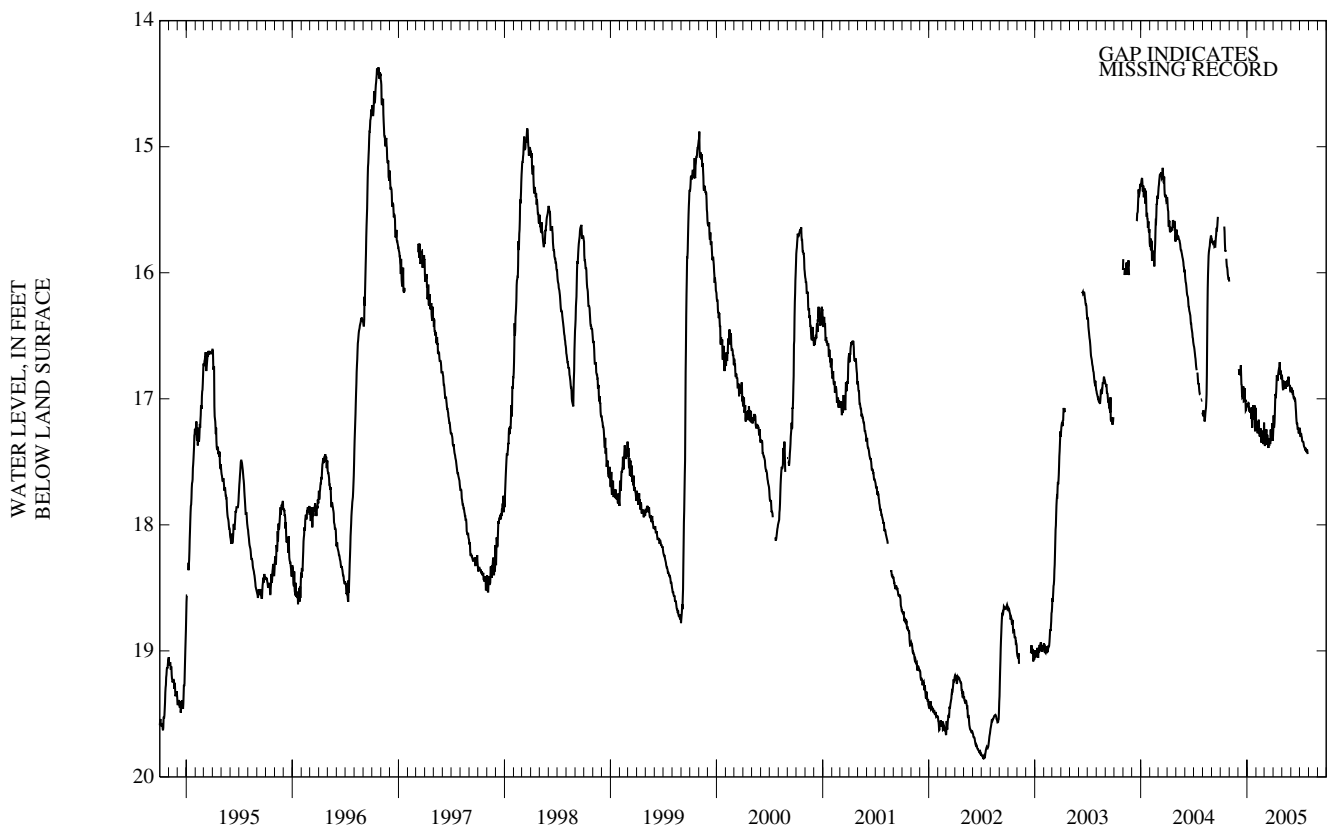
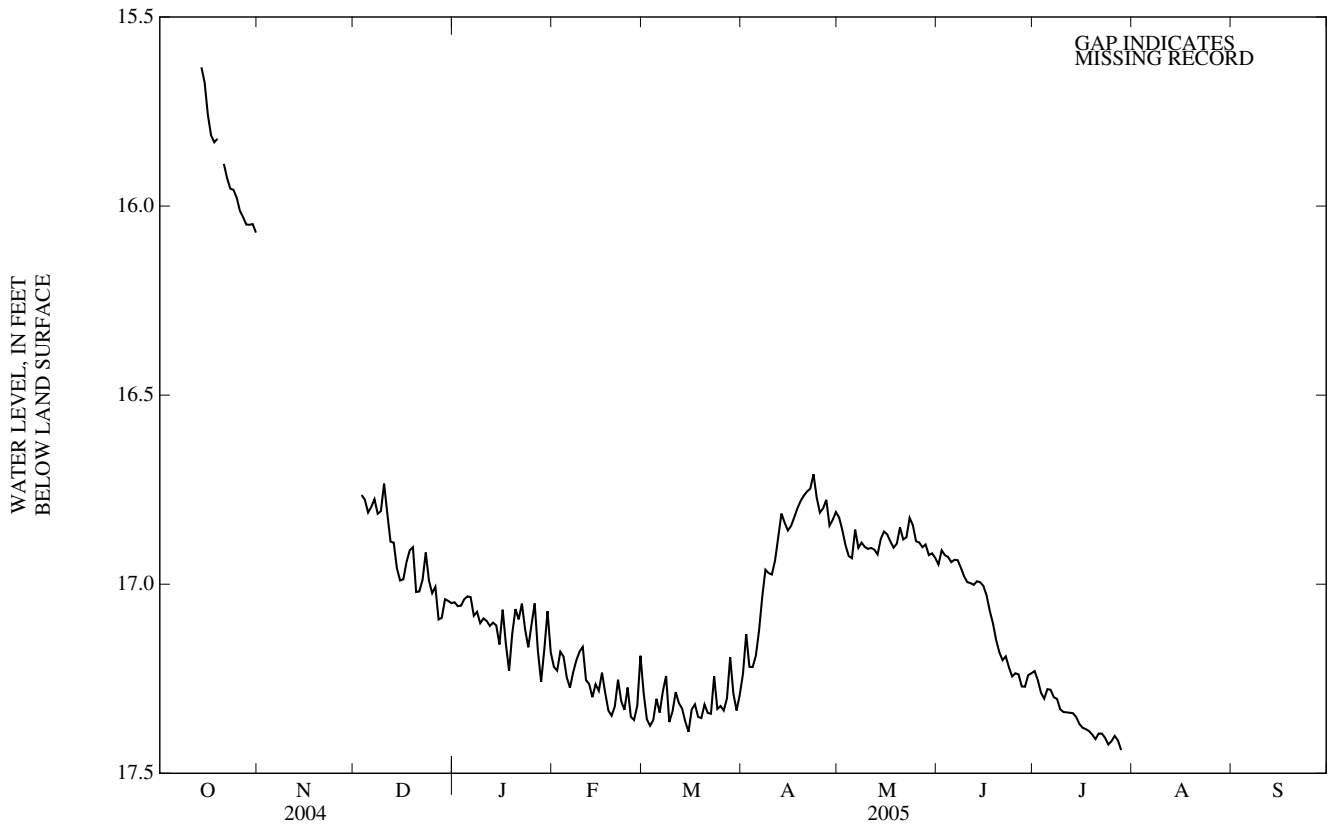
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 14.35 ft below land-surface datum, Oct. 18, 1996; lowest water level recorded, 19.86 ft below land-surface datum, July 7, 8, 9, 10, 12, 2002.

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	---	---	---	17.05	17.22	17.29	17.24	16.82	16.95	17.23	---	---	
2	---	---	---	17.06	17.23	17.36	17.13	16.86	16.91	17.25	---	---	
3	---	---	16.76	17.06	17.18	17.37	17.22	16.90	16.92	17.29	---	---	
4	---	---	16.78	17.04	17.19	17.36	17.22	16.93	16.93	17.30	---	---	
5	---	---	16.81	17.03	17.25	17.30	17.19	16.93	16.94	17.28	---	---	
6	---	---	16.80	17.03	17.27	17.34	17.12	16.86	16.94	17.28	---	---	
7	---	---	16.78	17.08	17.23	17.28	17.03	16.90	16.94	17.30	---	---	
8	---	---	16.81	17.07	17.20	17.24	16.96	16.89	16.96	17.30	---	---	
9	---	---	16.81	17.10	17.18	17.36	16.97	16.90	16.98	17.33	---	---	
10	---	---	16.73	17.09	17.17	17.34	16.97	16.91	16.99	17.34	---	---	
11	---	---	16.81	17.10	17.25	17.29	16.94	16.90	17.00	17.34	---	---	
12	---	---	16.89	17.11	17.26	17.31	16.88	16.91	17.00	17.34	---	---	
13	---	---	16.89	17.10	17.30	17.33	16.81	16.92	16.99	17.34	---	---	
14	15.63	---	16.96	17.11	17.26	17.36	16.84	16.88	16.99	17.35	---	---	
15	15.67	---	16.99	17.16	17.28	17.39	16.86	16.86	17.00	17.37	---	---	
16	15.76	---	16.99	17.07	17.23	17.33	16.85	16.87	17.03	17.38	---	---	
17	15.81	---	16.94	17.16	17.29	17.32	16.82	16.89	17.07	17.38	---	---	
18	15.83	---	16.91	17.23	17.33	17.35	16.80	16.90	17.10	17.39	---	---	
19	15.82	---	16.90	17.13	17.35	17.35	16.78	16.89	17.15	17.40	---	---	
20	---	---	17.02	17.07	17.32	17.32	16.77	16.85	17.18	17.41	---	---	
21	15.89	---	17.02	17.09	17.25	17.34	16.75	16.88	17.20	17.39	---	---	
22	15.93	---	16.99	17.05	17.31	17.34	16.75	16.88	17.19	17.40	---	---	
23	15.95	---	16.92	17.12	17.33	17.24	16.71	16.82	17.22	17.41	---	---	
24	15.96	---	16.99	17.17	17.27	17.33	16.77	16.84	17.24	17.42	---	---	
25	15.98	---	17.02	17.11	17.35	17.32	16.81	16.89	17.24	17.42	---	---	
26	16.01	---	17.01	17.05	17.36	17.33	16.80	16.89	17.24	17.40	---	---	
27	16.03	---	17.09	17.18	17.32	17.30	16.78	16.90	17.27	17.41	---	---	
28	16.05	---	17.09	17.26	17.19	17.19	16.85	16.89	17.27	17.44	---	---	
29	16.05	---	17.04	17.17	---	---	17.29	16.83	16.92	17.24	---	---	
30	16.05	---	17.04	17.07	---	---	17.33	16.81	16.92	17.24	---	---	
31	16.07	---	17.05	17.18	---	---	17.29	---	16.93	---	---	---	
WTR YR	2005	MEAN	17.02	HIGH	15.63	LOW	17.44						

GROUND-WATER LEVELS  
ON SLOW COUNTY—Continued

344139077211207. County number, ON-267; DENR Hadnot Point Research Station well X24s7.



GROUND-WATER LEVELS

ONslow COUNTY—Continued

344037077253901. County number, ON-291; Ragged Point Well.

LOCATION.--Lat 34°40'35", long 77°25'39", Hydrologic Unit 03030001, 2.05 mi east of Verona, on Town Point Road, 0.9 mi north on TLZ Eagle road.  
Owner: U.S. Geological Survey.

AQUIFER.--Castle Hayne aquifer.

WELL CHARACTERISTICS.--Drilled observation well, depth 180 ft, diameter 2 in., cased to 170 ft, screened interval from 170 to 180 ft.

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

DATUM.--Land-surface datum is 25 ft above NGVD of 1929 (from topographic map). Measuring point: Top of shelter floor, 2.87 ft above land-surface datum.

REMARKS.--Well is part of U.S. Marine Corps Base, Camp Lejeune, North Carolina, Water Resources Network project.

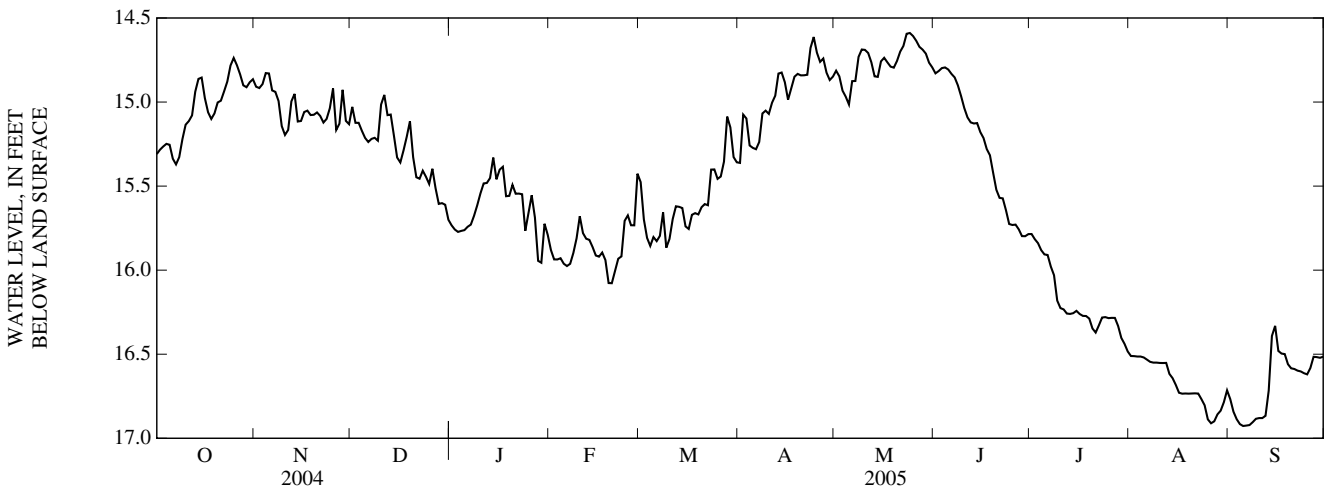
PERIOD OF RECORD.--October 1994 to October 2005 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 14.31 ft below land-surface datum, Nov. 20, 29, 2003; lowest water level recorded, 20.18 ft below land-surface datum, Aug. 21, 1998.

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	15.31	14.91	15.03	15.73	15.88	15.48	15.36	14.81	14.83	15.79	16.51	16.77
2	15.28	14.92	15.12	15.76	15.94	15.70	15.07	14.85	14.82	15.82	16.51	16.84
3	15.26	14.89	15.12	15.77	15.94	15.81	15.10	14.93	14.80	15.84	16.51	16.89
4	15.25	14.83	15.17	15.77	15.93	15.86	15.26	14.97	14.79	15.88	16.51	16.92
5	15.25	14.83	15.21	15.76	15.96	15.80	15.27	15.01	14.81	15.91	16.52	16.93
6	15.34	14.93	15.24	15.74	15.98	15.83	15.28	14.88	14.83	15.91	16.53	16.92
7	15.37	14.94	15.22	15.73	15.96	15.80	15.24	14.87	14.85	15.98	16.55	16.92
8	15.33	14.99	15.21	15.68	15.90	15.66	15.07	14.73	14.90	16.03	16.55	16.90
9	15.22	15.14	15.23	15.61	15.81	15.87	15.05	14.69	14.96	16.18	16.55	16.88
10	15.13	15.20	15.01	15.54	15.68	15.81	15.07	14.69	15.04	16.23	16.55	16.88
11	15.11	15.17	14.96	15.48	15.78	15.70	15.00	14.71	15.09	16.23	16.55	16.88
12	15.08	15.00	15.08	15.48	15.81	15.62	14.96	14.76	15.12	16.26	16.55	16.87
13	14.94	14.95	15.07	15.45	15.82	15.62	14.83	14.85	15.13	16.26	16.62	16.72
14	14.86	15.12	15.20	15.33	15.86	15.63	14.82	14.85	15.12	16.26	16.64	16.39
15	14.85	15.11	15.33	15.46	15.91	15.74	14.88	14.76	15.18	16.24	16.68	16.33
16	14.98	15.06	15.36	15.40	15.92	15.76	14.99	14.74	15.21	16.26	16.73	16.48
17	15.06	15.05	15.29	15.38	15.90	15.67	14.92	14.76	15.28	16.27	16.73	16.50
18	15.10	15.08	15.21	15.56	15.94	15.66	14.85	14.79	15.32	16.27	16.73	16.50
19	15.07	15.08	15.11	15.56	16.08	15.67	14.83	14.80	15.42	16.29	16.73	16.56
20	15.00	15.06	15.33	15.49	16.08	15.63	14.84	14.76	15.52	16.35	16.73	16.58
21	14.99	15.08	15.45	15.55	16.00	15.61	14.84	14.70	15.57	16.37	16.73	16.59
22	14.94	15.12	15.46	15.54	15.93	15.61	14.84	14.67	15.57	16.33	16.73	16.60
23	14.88	15.10	15.41	15.55	15.92	15.40	14.68	14.59	15.64	16.28	16.77	16.60
24	14.78	15.04	15.44	15.77	15.71	15.40	14.61	14.59	15.73	16.28	16.80	16.61
25	14.74	14.92	15.49	15.66	15.67	15.46	14.71	14.61	15.73	16.29	16.89	16.62
26	14.78	15.17	15.40	15.55	15.73	15.44	14.76	14.64	15.73	16.28	16.91	16.58
27	14.84	15.13	15.51	15.69	15.73	15.35	14.74	14.67	15.76	16.28	16.90	16.52
28	14.90	14.93	15.61	15.94	15.43	15.09	14.83	14.69	15.80	16.33	16.86	16.52
29	14.91	15.11	15.60	15.96	---	15.15	14.87	14.71	15.80	16.40	16.84	16.52
30	14.88	15.13	15.61	15.72	---	15.33	14.85	14.77	15.79	16.44	16.79	16.51
31	14.86	---	15.70	15.79	---	15.36	---	14.79	---	16.48	16.71	---

WTR YR 2005 MEAN 15.58 HIGH 14.59 LOW 16.93





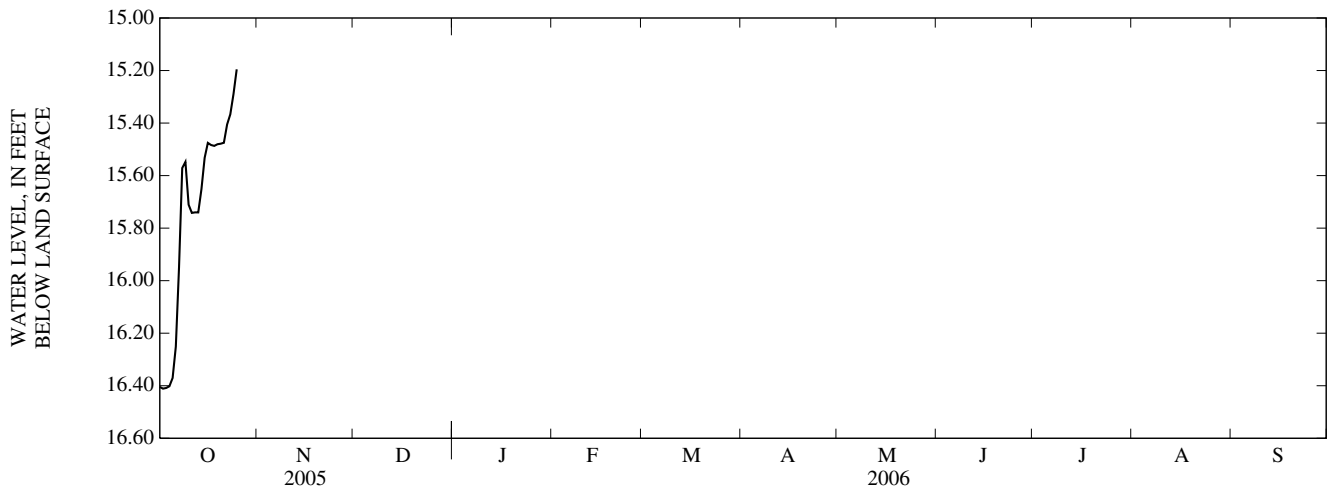
GROUND-WATER LEVELS

ONSIOW COUNTY—Continued

344037077253901. County number, ON-291; Ragged Point Well.

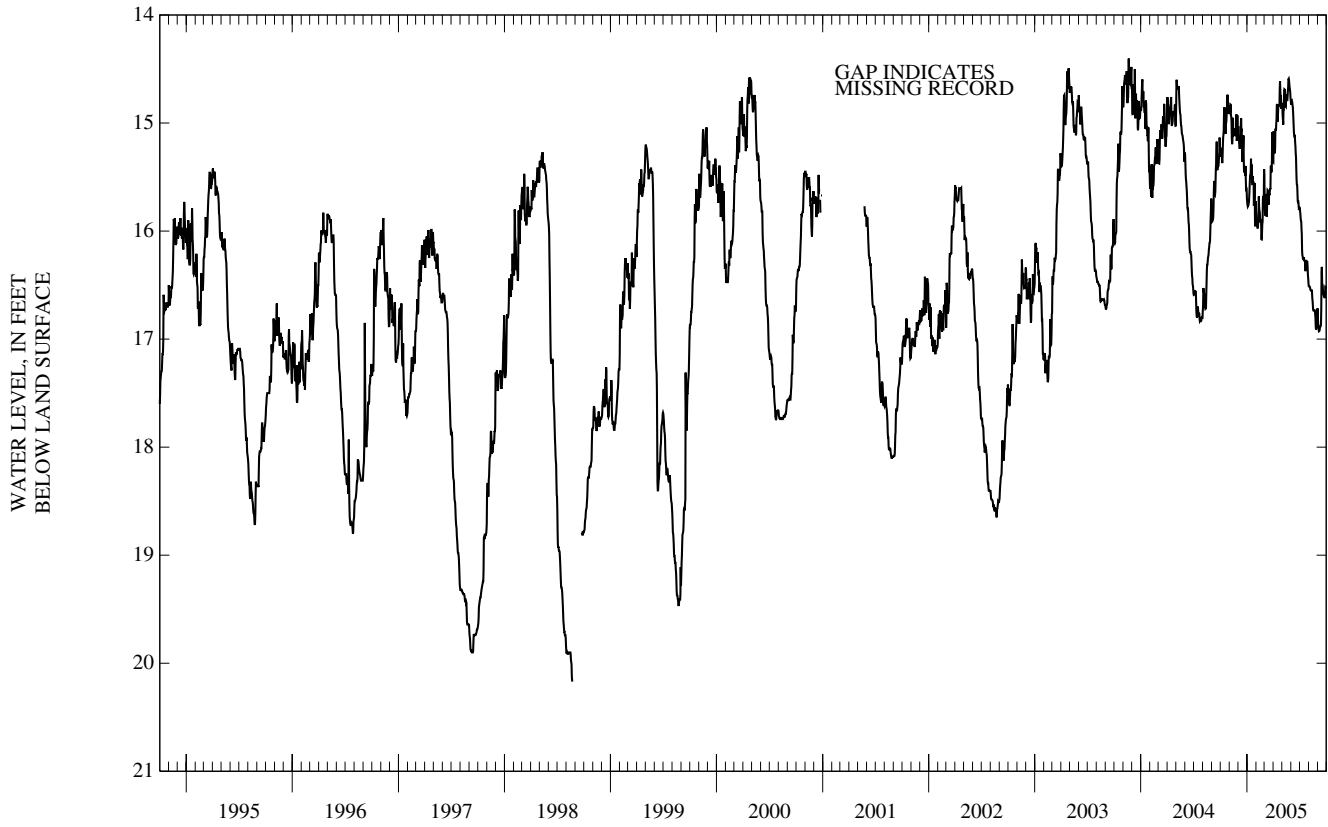
DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE  
 WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006  
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.40	---	---	---	---	---	---	---	---	---	---	---
2	16.41	---	---	---	---	---	---	---	---	---	---	---
3	16.41	---	---	---	---	---	---	---	---	---	---	---
4	16.40	---	---	---	---	---	---	---	---	---	---	---
5	16.37	---	---	---	---	---	---	---	---	---	---	---
6	16.25	---	---	---	---	---	---	---	---	---	---	---
7	15.95	---	---	---	---	---	---	---	---	---	---	---
8	15.57	---	---	---	---	---	---	---	---	---	---	---
9	15.55	---	---	---	---	---	---	---	---	---	---	---
10	15.71	---	---	---	---	---	---	---	---	---	---	---
11	15.74	---	---	---	---	---	---	---	---	---	---	---
12	15.74	---	---	---	---	---	---	---	---	---	---	---
13	15.74	---	---	---	---	---	---	---	---	---	---	---
14	15.65	---	---	---	---	---	---	---	---	---	---	---
15	15.53	---	---	---	---	---	---	---	---	---	---	---
16	15.48	---	---	---	---	---	---	---	---	---	---	---
17	15.48	---	---	---	---	---	---	---	---	---	---	---
18	15.49	---	---	---	---	---	---	---	---	---	---	---
19	15.48	---	---	---	---	---	---	---	---	---	---	---
20	15.48	---	---	---	---	---	---	---	---	---	---	---
21	15.47	---	---	---	---	---	---	---	---	---	---	---
22	15.41	---	---	---	---	---	---	---	---	---	---	---
23	15.37	---	---	---	---	---	---	---	---	---	---	---
24	15.29	---	---	---	---	---	---	---	---	---	---	---
25	15.20	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
WTR YR	2006	MEAN 15.74	HIGH 15.20	LOW 16.41								



ONSLow COUNTY—Continued

344037077253901. County number, ON-291; Ragged Point Well.



GROUND-WATER LEVELS  
ONslow COUNTY—Continued

344304077232901. County number, ON-292; Paradise Point Well.

LOCATION.--Lat 34°43'05", long 77°23'31", Hydrologic Unit 03030001, north of Camp Lejeune golf course driving range. Owner: U.S. Geological Survey.

AQUIFER.--Castle Hayne aquifer.

WELL CHARACTERISTICS.--Drilled observation well, depth 232 ft, diameter 2 in., cased to 222 ft, screened interval from 222 to 232 ft.

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

DATUM.--Land-surface datum is 15 ft above NGVD of 1929 (from topographic map). Measuring point: Top of shelter floor, 2.47 ft above land-surface datum.

REMARKS.--Well is part of U.S. Marine Corps Base, Camp Lejeune, North Carolina, Water Resources Network project.

PERIOD OF RECORD.--October 1994 to July 2005 (discontinued). Prior to October 1997, published as ON-290, Paradise Point Well.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 4.62 ft below land-surface datum, Nov. 28, 2003; lowest water level recorded, 13.80 ft below land-surface datum, Aug. 20, 1998.

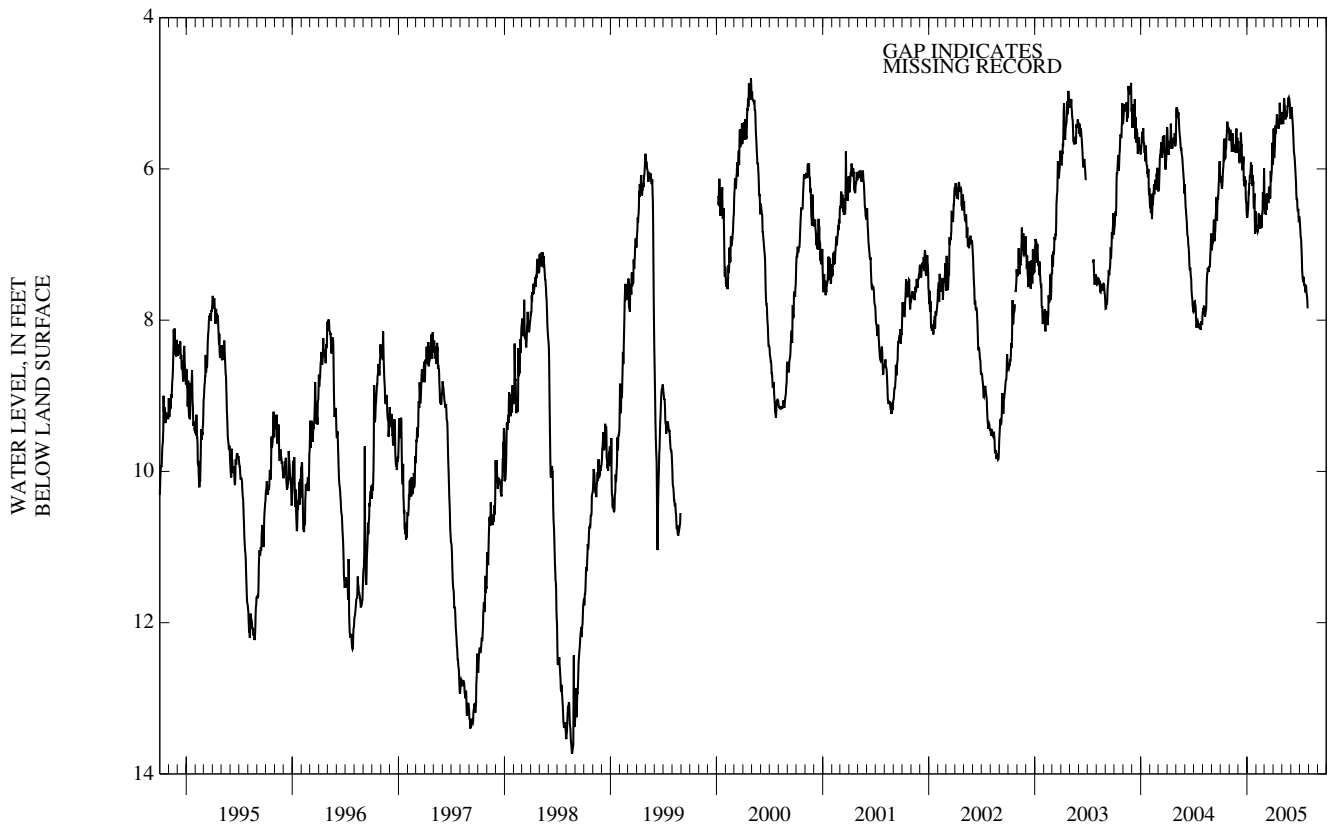
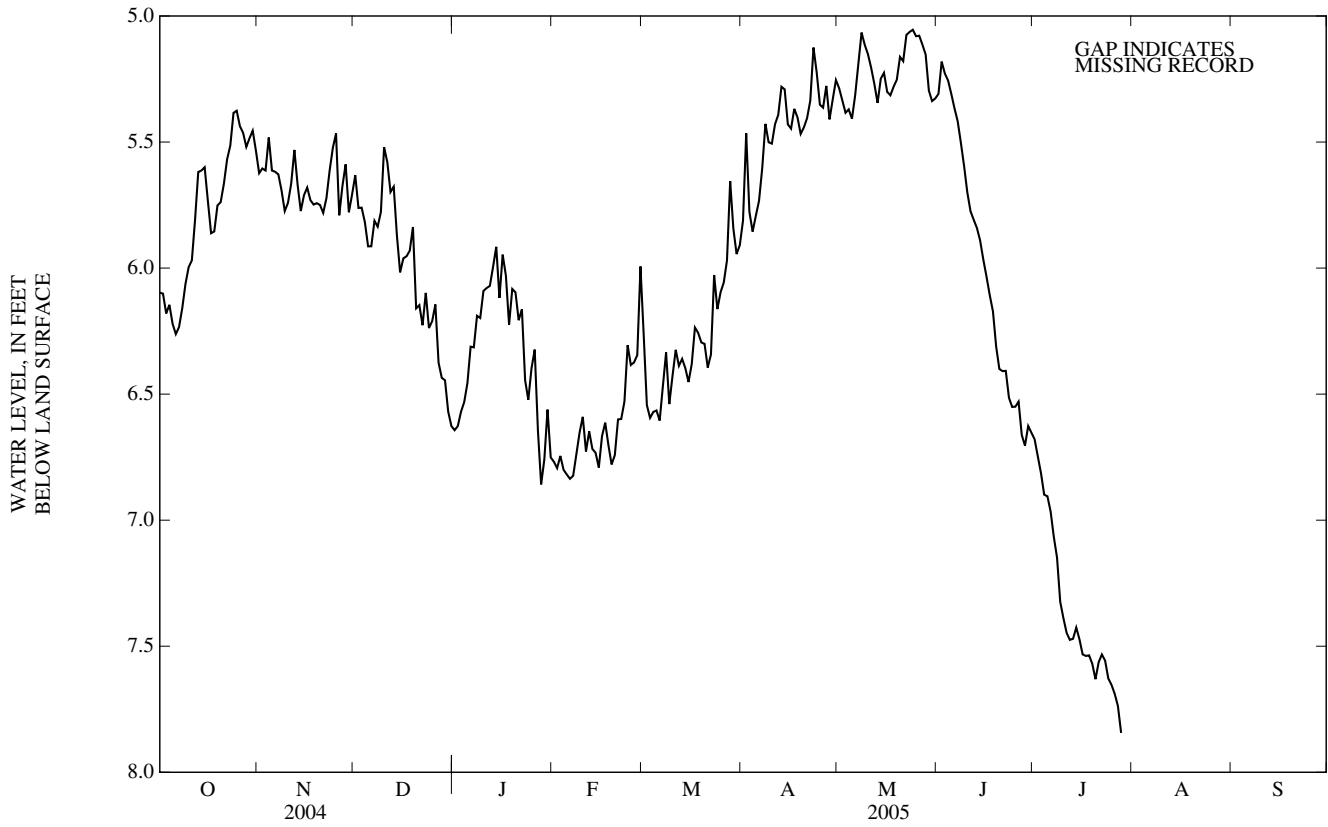
DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.10	5.62	5.63	6.64	6.77	6.26	5.81	5.29	5.31	6.68	---	---
2	6.10	5.61	5.76	6.63	6.79	6.54	5.47	5.33	5.18	6.75	---	---
3	6.18	5.61	5.76	6.57	6.75	6.59	5.78	5.38	5.23	6.81	---	---
4	6.15	5.48	5.82	6.53	6.80	6.57	5.86	5.37	5.26	6.90	---	---
5	6.22	5.61	5.91	6.46	6.82	6.56	5.79	5.41	5.31	6.91	---	---
6	6.26	5.62	5.91	6.31	6.84	6.60	5.73	5.31	5.37	6.97	---	---
7	6.23	5.63	5.81	6.31	6.82	6.47	5.60	5.19	5.42	7.07	---	---
8	6.16	5.69	5.84	6.19	6.74	6.33	5.43	5.07	5.50	7.15	---	---
9	6.06	5.77	5.78	6.20	6.65	6.54	5.50	5.11	5.60	7.32	---	---
10	6.00	5.74	5.52	6.09	6.59	6.43	5.51	5.15	5.70	7.39	---	---
11	5.97	5.67	5.58	6.08	6.73	6.32	5.43	5.21	5.77	7.45	---	---
12	5.81	5.53	5.70	6.07	6.65	6.39	5.39	5.27	5.81	7.47	---	---
13	5.62	5.67	5.68	6.00	6.72	6.36	5.28	5.34	5.84	7.47	---	---
14	5.61	5.77	5.87	5.92	6.73	6.40	5.29	5.25	5.89	7.43	---	---
15	5.60	5.71	6.02	6.12	6.79	6.45	5.43	5.23	5.97	7.47	---	---
16	5.73	5.68	5.96	5.95	6.67	6.38	5.45	5.30	6.03	7.53	---	---
17	5.86	5.73	5.95	6.03	6.61	6.24	5.37	5.31	6.11	7.54	---	---
18	5.85	5.75	5.93	6.22	6.70	6.26	5.40	5.28	6.17	7.54	---	---
19	5.75	5.74	5.84	6.08	6.78	6.29	5.47	5.25	6.31	7.57	---	---
20	5.74	5.75	6.16	6.10	6.74	6.30	5.44	5.16	6.40	7.63	---	---
21	5.67	5.78	6.15	6.21	6.60	6.39	5.41	5.18	6.41	7.56	---	---
22	5.57	5.72	6.23	6.16	6.60	6.34	5.34	5.08	6.41	7.53	---	---
23	5.51	5.61	6.10	6.44	6.53	6.03	5.13	5.06	6.51	7.56	---	---
24	5.38	5.52	6.24	6.52	6.31	6.16	5.22	5.05	6.55	7.63	---	---
25	5.38	5.47	6.21	6.40	6.38	6.10	5.35	5.08	6.55	7.65	---	---
26	5.44	5.79	6.14	6.32	6.37	6.06	5.36	5.08	6.53	7.69	---	---
27	5.46	5.67	6.38	6.65	6.35	5.97	5.28	5.11	6.66	7.74	---	---
28	5.52	5.59	6.44	6.86	5.99	5.66	5.41	5.15	6.70	7.84	---	---
29	5.48	5.78	6.45	6.76	---	5.84	5.33	5.30	6.63	---	---	---
30	5.46	5.71	6.57	6.56	---	5.94	5.25	5.34	6.65	---	---	---
31	5.53	---	6.63	6.75	---	5.91	---	5.33	---	---	---	---

WTR YR 2005 MEAN 6.06 HIGH 5.05 LOW 7.84

ONslow COUNTY—Continued

344304077232901. County number, ON-292; Paradise Point Well.



GROUND-WATER LEVELS  
 ONSLOW COUNTY—Continued

343609077171301. County number, ON-293; Sneads Ferry Road Well.

LOCATION.--Lat 34°36'09", long 77°17'11", Hydrologic Unit 03030001, at Camp Lejeune, approximately 6.0 mi south on Sneads Ferry Road. Owner: U.S. Geological Survey.

AQUIFER.--Castle Hayne aquifer.

WELL CHARACTERISTICS.--Drilled observation well, depth 235 ft, diameter 2 in., cased to 225 ft, screened interval from 225 to 235 ft.

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

DATUM.--Land-surface datum is 42.56 ft above North American Vertical Datum of 1988. Measuring point: Top of shelter floor, 2.30 ft above land-surface datum.

REMARKS.--Well is part of U.S. Marine Corps Base, Camp Lejeune, North Carolina, Water Resources Network project.

PERIOD OF RECORD.--October 1994 to July 2005 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 7.46 ft below land-surface datum, July 22, 2000; lowest water level recorded, 15.28 ft below land-surface datum, Jul. 12, 13, 2004.

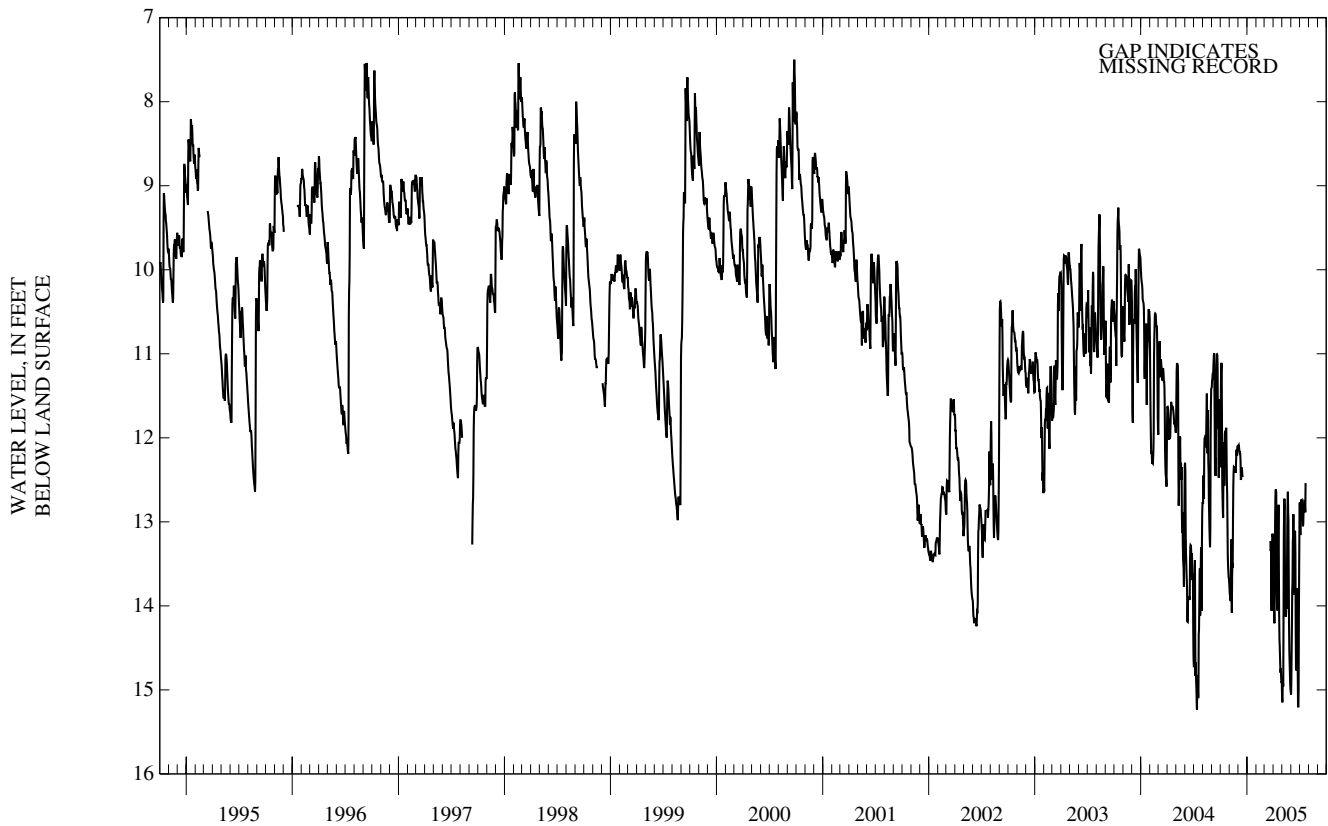
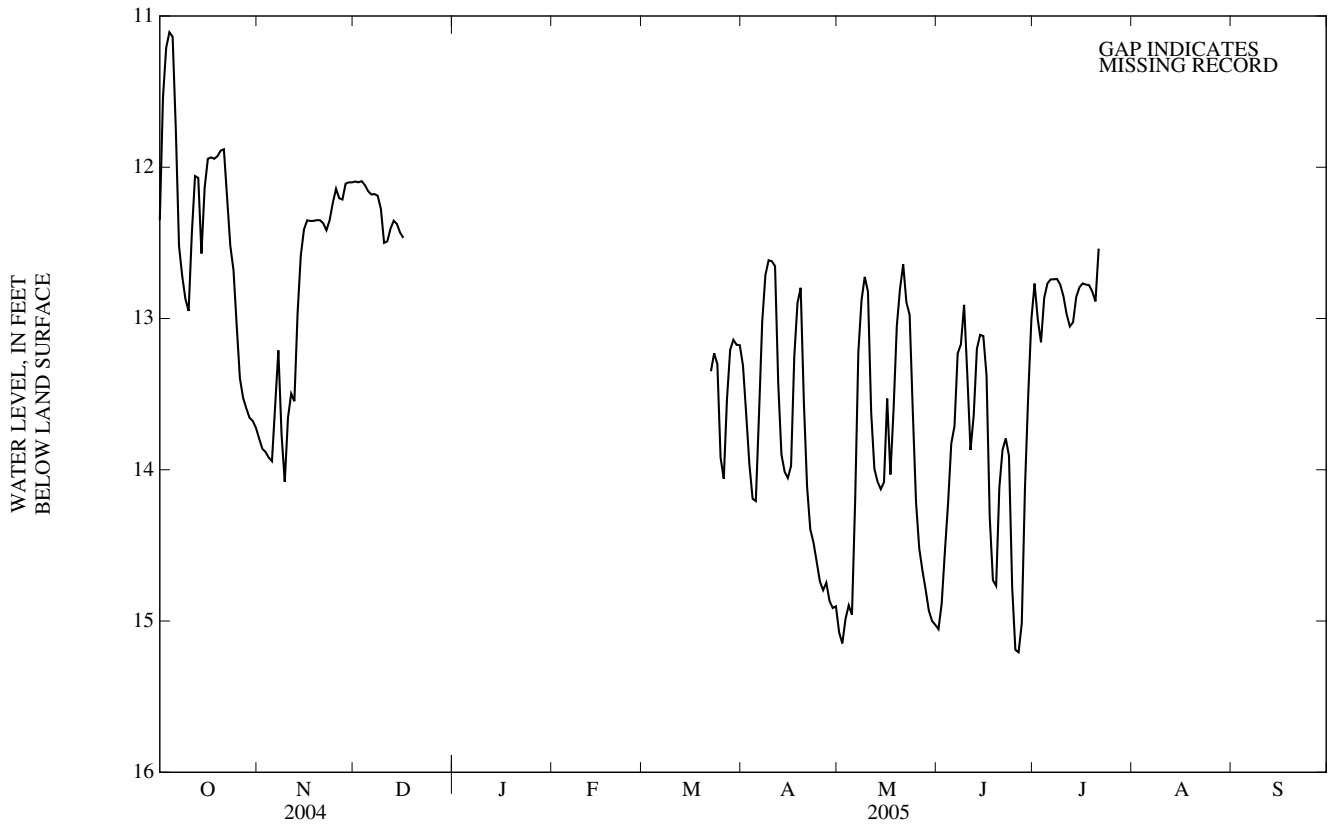
DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE  
 WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.35	13.79	12.09	---	---	---	13.31	15.07	15.05	12.77	---	---
2	11.54	13.86	12.10	---	---	---	13.63	15.15	14.89	13.01	---	---
3	11.21	13.88	12.09	---	---	---	13.96	14.98	14.54	13.16	---	---
4	11.11	13.92	12.12	---	---	---	14.19	14.90	14.22	12.86	---	---
5	11.14	13.94	12.16	---	---	---	14.21	14.96	13.83	12.77	---	---
6	11.75	13.58	12.18	---	---	---	13.63	14.20	13.71	12.74	---	---
7	12.52	13.21	12.18	---	---	---	13.02	13.22	13.23	12.74	---	---
8	12.72	13.77	12.19	---	---	---	12.71	12.88	13.17	12.74	---	---
9	12.87	14.08	12.28	---	---	---	12.61	12.72	12.91	12.78	---	---
10	12.95	13.66	12.50	---	---	---	12.62	12.82	13.37	12.85	---	---
11	12.44	13.50	12.49	---	---	---	12.65	13.62	13.87	12.97	---	---
12	12.06	13.55	12.41	---	---	---	13.43	13.99	13.64	13.05	---	---
13	12.07	12.97	12.35	---	---	---	13.90	14.08	13.20	13.02	---	---
14	12.57	12.58	12.38	---	---	---	14.01	14.13	13.11	12.86	---	---
15	12.14	12.41	12.43	---	---	---	14.05	14.08	13.12	12.79	---	---
16	11.94	12.35	12.47	---	---	---	13.97	13.53	13.38	12.77	---	---
17	11.94	12.36	---	---	---	---	13.25	14.03	14.32	12.78	---	---
18	11.94	12.35	---	---	---	---	12.90	13.60	14.73	12.78	---	---
19	11.93	12.35	---	---	---	---	12.80	13.05	14.77	12.82	---	---
20	11.89	12.35	---	---	---	---	13.55	12.80	14.12	12.89	---	---
21	11.88	12.37	---	---	---	---	14.11	12.64	13.87	12.54	---	---
22	12.20	12.42	---	---	---	13.35	14.39	12.89	13.79	---	---	---
23	12.52	12.35	---	---	---	13.23	14.48	12.98	13.91	---	---	---
24	12.68	12.23	---	---	---	13.30	14.61	13.62	14.78	---	---	---
25	13.05	12.14	---	---	---	13.92	14.74	14.22	15.19	---	---	---
26	13.40	12.21	---	---	---	14.06	14.80	14.52	15.21	---	---	---
27	13.52	12.21	---	---	---	13.53	14.75	14.67	15.02	---	---	---
28	13.59	12.11	---	---	---	13.21	14.87	14.79	14.12	---	---	---
29	13.66	12.10	---	---	---	13.14	14.91	14.93	13.51	---	---	---
30	13.68	12.10	---	---	---	13.17	14.90	15.00	13.00	---	---	---
31	13.72	---	---	---	---	13.18	---	15.02	---	---	---	---

WTR YR 2005 MEAN 13.26 HIGH 11.11 LOW 15.21

ONslow COUNTY—Continued

343609077171301. County number, ON-293; Sneads Ferry Road Well.



GROUND-WATER LEVELS  
 ONSLOW COUNTY—Continued

343842077241501. County number, ON-294; Town Creek Well 1.

LOCATION.--Lat 34°38'42", long 77°24'29", Hydrologic Unit 03030001, 4 mi east of Verona, 0.4 mi north of Town Point Road, on dirt road. Owner: U.S. Geological Survey.

AQUIFER.--Surficial Aquifer.

WELL CHARACTERISTICS.--Drilled observation well, depth 23 ft, diameter 2 in., screened interval from 12 to 22 ft.

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

DATUM.--Land-surface datum is 29.83 ft above North American Vertical Datum of 1988. Measuring point: Top of shelter floor, 2.43 ft above land-surface datum.

REMARKS.--Well is part of U.S. Marine Corps Base, Camp Lejeune, North Carolina, Water Resources Network project.

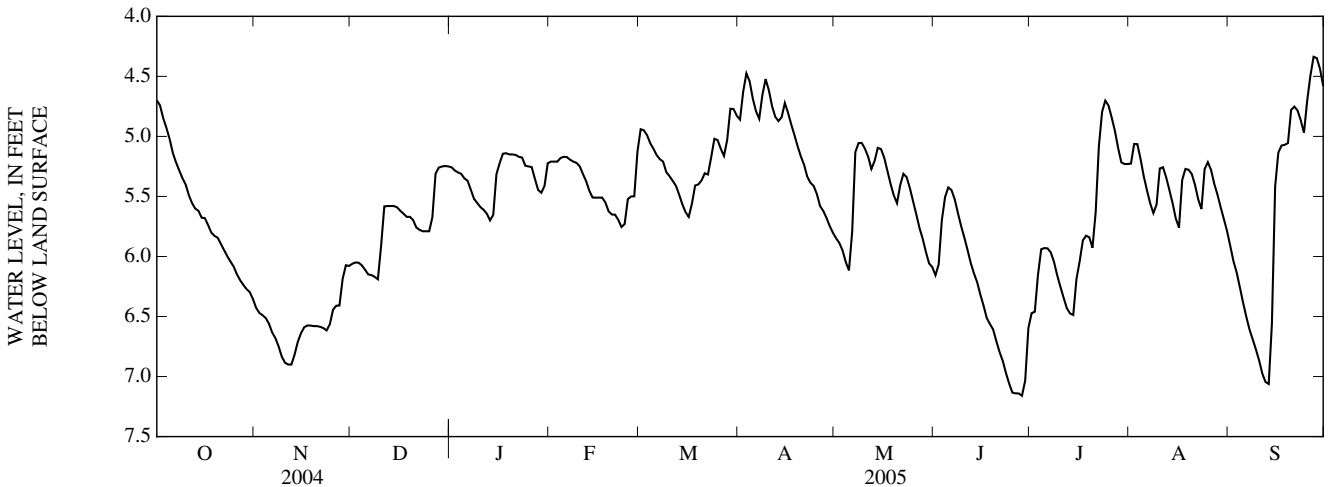
PERIOD OF RECORD.--October 1994 to October 2005 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 3.55 ft below land-surface datum, Mar. 21, 22, 2003, Oct. 29, 2003; lowest water level recorded, 11.29 ft below land-surface datum, Dec. 10-13, 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	4.70	6.43	6.06	5.26	5.21	4.94	4.86	5.85	6.16	6.47	5.23	5.91
2	4.74	6.47	6.05	5.28	5.21	4.95	4.63	5.89	6.07	6.46	5.06	6.04
3	4.85	6.49	6.05	5.30	5.21	4.99	4.47	5.95	5.70	6.15	5.06	6.13
4	4.93	6.51	6.07	5.31	5.18	5.06	4.54	6.04	5.51	5.94	5.19	6.26
5	5.02	6.56	6.11	5.35	5.17	5.10	4.69	6.12	5.42	5.93	5.33	6.38
6	5.14	6.63	6.15	5.37	5.17	5.16	4.79	5.80	5.45	5.93	5.45	6.50
7	5.22	6.68	6.15	5.44	5.19	5.19	4.85	5.13	5.52	5.97	5.56	6.61
8	5.28	6.75	6.17	5.52	5.21	5.21	4.65	5.06	5.64	6.05	5.64	6.69
9	5.35	6.83	6.19	5.55	5.22	5.30	4.52	5.05	5.75	6.16	5.57	6.77
10	5.40	6.88	5.91	5.59	5.25	5.33	4.62	5.10	5.84	6.25	5.27	6.87
11	5.49	6.90	5.58	5.61	5.31	5.37	4.75	5.17	5.94	6.34	5.26	6.97
12	5.56	6.90	5.58	5.64	5.37	5.41	4.84	5.27	6.05	6.43	5.34	7.04
13	5.60	6.82	5.58	5.70	5.45	5.48	4.87	5.20	6.14	6.47	5.45	7.06
14	5.62	6.71	5.58	5.65	5.51	5.56	4.84	5.10	6.21	6.49	5.56	6.56
15	5.68	6.64	5.59	5.31	5.51	5.63	4.72	5.11	6.32	6.19	5.68	5.42
16	5.68	6.59	5.62	5.22	5.51	5.67	4.80	5.18	6.41	6.04	5.76	5.13
17	5.74	6.57	5.64	5.14	5.51	5.56	4.90	5.29	6.51	5.87	5.36	5.08
18	5.80	6.58	5.67	5.14	5.55	5.41	4.99	5.40	6.56	5.83	5.27	5.07
19	5.83	6.58	5.67	5.15	5.62	5.40	5.08	5.49	6.61	5.84	5.28	5.06
20	5.84	6.58	5.70	5.15	5.65	5.37	5.17	5.56	6.71	5.93	5.31	4.78
21	5.90	6.59	5.76	5.15	5.65	5.31	5.24	5.41	6.80	5.63	5.40	4.75
22	5.95	6.60	5.78	5.17	5.69	5.32	5.34	5.31	6.87	5.08	5.52	4.78
23	6.00	6.62	5.79	5.18	5.75	5.17	5.39	5.34	6.97	4.80	5.60	4.87
24	6.04	6.56	5.79	5.24	5.73	5.02	5.41	5.43	7.06	4.70	5.27	4.97
25	6.08	6.44	5.79	5.25	5.52	5.03	5.48	5.54	7.13	4.74	5.21	4.70
26	6.15	6.41	5.67	5.26	5.50	5.10	5.58	5.65	7.14	4.84	5.28	4.50
27	6.20	6.41	5.31	5.35	5.50	5.16	5.62	5.76	7.14	4.95	5.39	4.34
28	6.24	6.19	5.26	5.45	5.13	5.03	5.68	5.85	7.16	5.10	5.48	4.35
29	6.27	6.07	5.25	5.47	---	4.77	5.75	5.96	7.03	5.22	5.59	4.44
30	6.30	6.08	5.25	5.41	---	4.77	5.80	6.06	6.60	5.23	5.69	4.58
31	6.35	---	5.25	5.22	---	4.83	---	6.09	---	5.23	5.79	---

WTR YR 2005 MEAN 5.63 HIGH 4.34 LOW 7.16

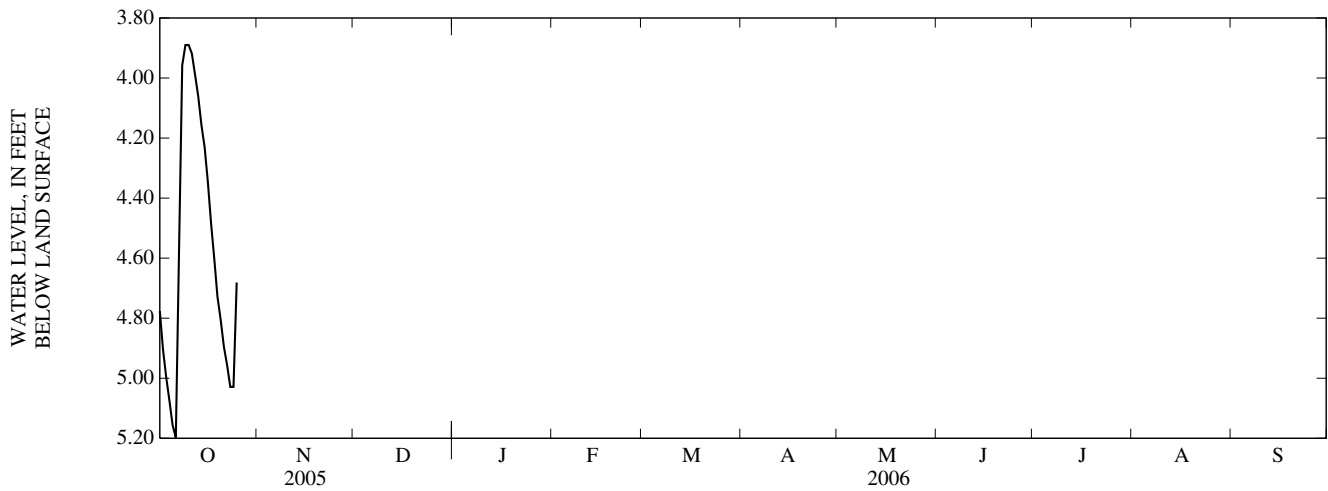


ONSIOW COUNTY—Continued

343842077241501. County number, ON-294; Town Creek Well 1.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE  
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006  
DAILY MEAN VALUES

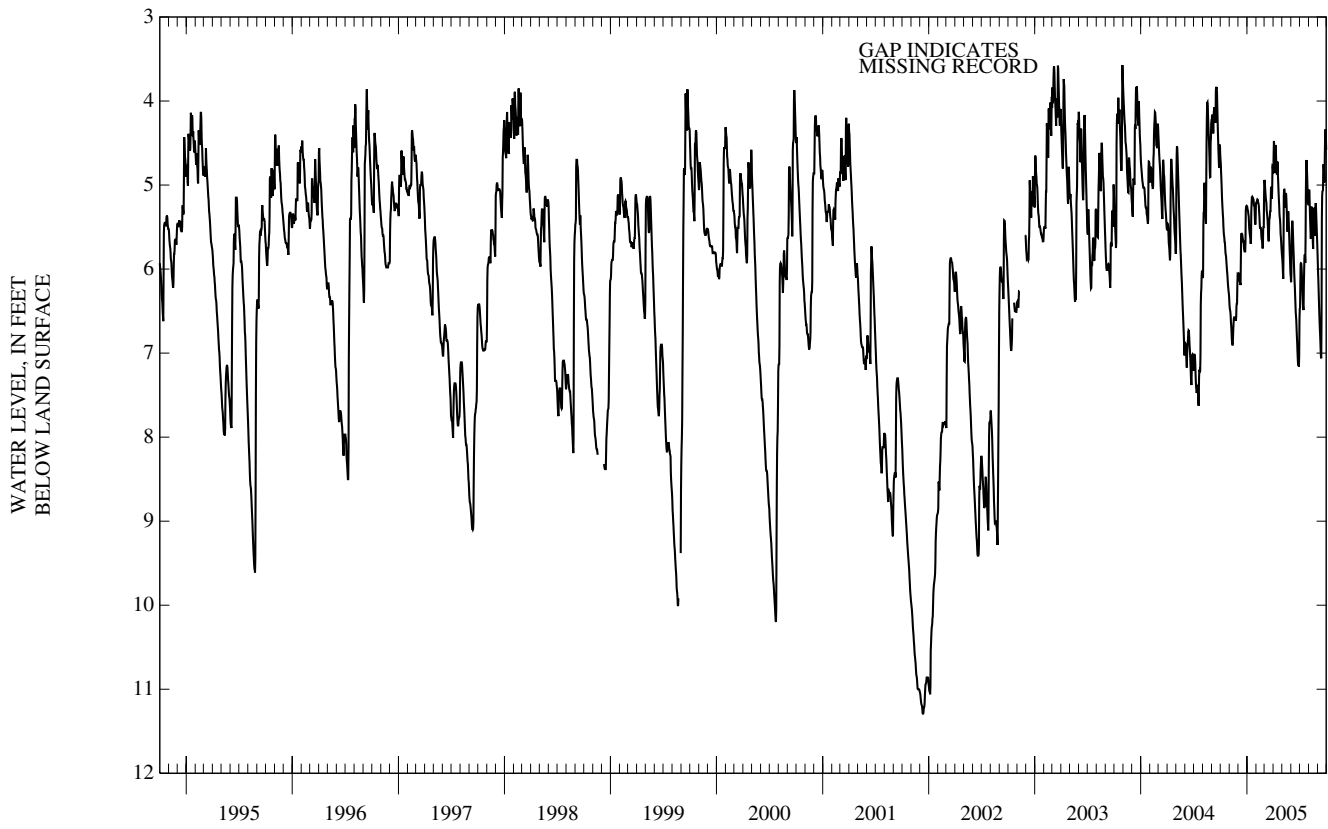
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.78	---	---	---	---	---	---	---	---	---	---	---
2	4.90	---	---	---	---	---	---	---	---	---	---	---
3	5.00	---	---	---	---	---	---	---	---	---	---	---
4	5.07	---	---	---	---	---	---	---	---	---	---	---
5	5.16	---	---	---	---	---	---	---	---	---	---	---
6	5.20	---	---	---	---	---	---	---	---	---	---	---
7	4.57	---	---	---	---	---	---	---	---	---	---	---
8	3.96	---	---	---	---	---	---	---	---	---	---	---
9	3.89	---	---	---	---	---	---	---	---	---	---	---
10	3.89	---	---	---	---	---	---	---	---	---	---	---
11	3.92	---	---	---	---	---	---	---	---	---	---	---
12	3.99	---	---	---	---	---	---	---	---	---	---	---
13	4.06	---	---	---	---	---	---	---	---	---	---	---
14	4.16	---	---	---	---	---	---	---	---	---	---	---
15	4.23	---	---	---	---	---	---	---	---	---	---	---
16	4.35	---	---	---	---	---	---	---	---	---	---	---
17	4.48	---	---	---	---	---	---	---	---	---	---	---
18	4.60	---	---	---	---	---	---	---	---	---	---	---
19	4.73	---	---	---	---	---	---	---	---	---	---	---
20	4.81	---	---	---	---	---	---	---	---	---	---	---
21	4.89	---	---	---	---	---	---	---	---	---	---	---
22	4.96	---	---	---	---	---	---	---	---	---	---	---
23	5.03	---	---	---	---	---	---	---	---	---	---	---
24	5.03	---	---	---	---	---	---	---	---	---	---	---
25	4.68	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
WTR YR	2006	MEAN 4.57	HIGH 3.89	LOW 5.20								





GROUND-WATER LEVELS  
ONslow COUNTY—Continued

343842077241501. County number, ON-294; Town Creek Well 1.



## ONslow COUNTY—Continued

343442077292301. County number, ON-312; Great Sandy Run well.

LOCATION.--Lat 34°34'42", long 77°29'23", Hydrologic Unit 03030007, at Camp Lejeune, 13.5 mi south of Highway 24 and Highway 17 intersection, on dirt road. Owner: U.S. Geological Survey.

AQUIFER.--Surficial aquifer.

WELL CHARACTERISTICS.--Drilled observation well, depth 5.9 ft, diameter 2 in., cased to 5.9 ft, screened interval from 0.6 to 5.6 ft.

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

DATUM.--Land-surface datum is 25 ft above NGVD of 1929 (from topographic map). Measuring point: Bottom of shelter floor, 3.82 ft above land-surface datum.

REMARKS.--Well is part of a Coastal Plains recharge study.

PERIOD OF RECORD.--December 2003 to February 2005 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 0.14 ft above land-surface datum, Aug. 14, 2004; lowest water level recorded, 3.64 ft below land-surface datum, June 30, 2004.

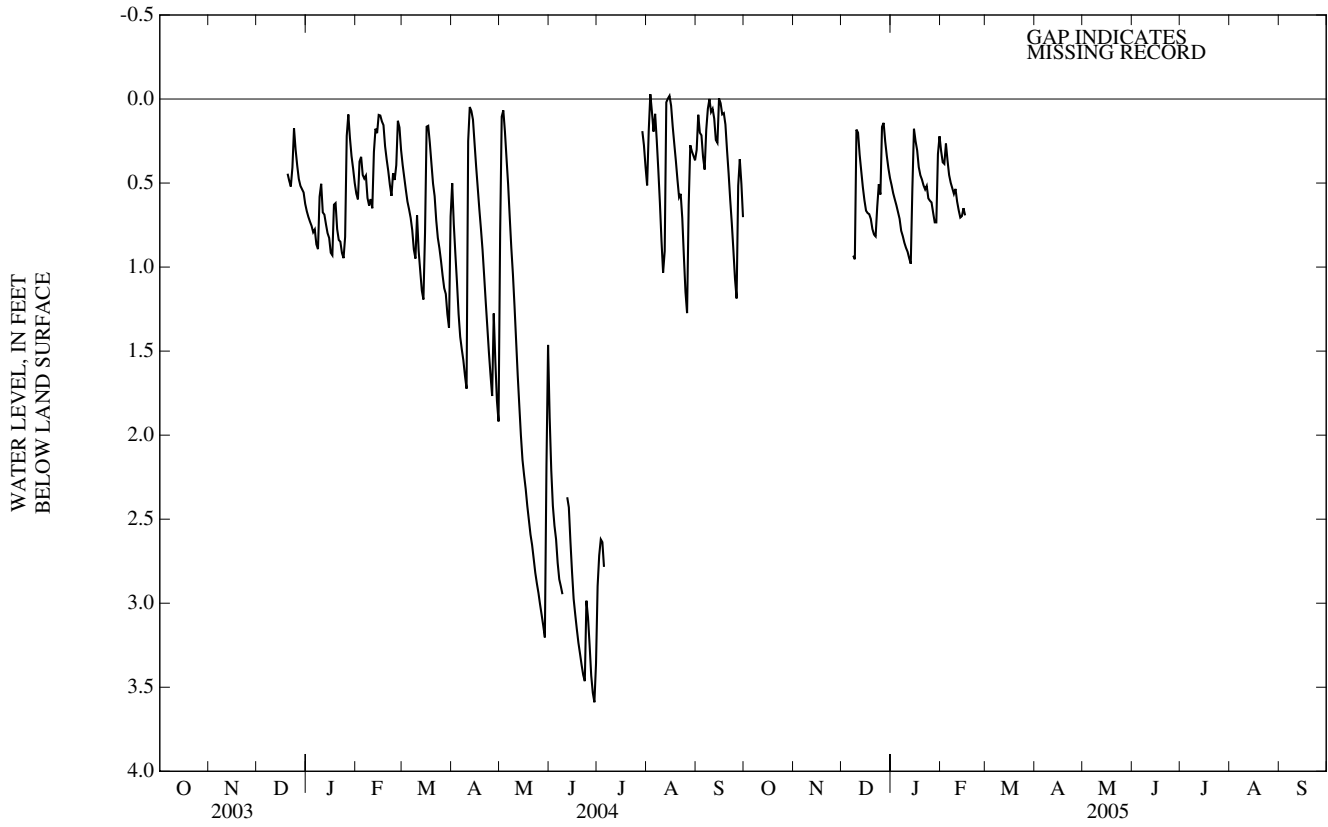
DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	0.51	0.31	---	---	---	---	---	---	---
2	---	---	---	0.56	0.38	---	---	---	---	---	---	---
3	---	---	---	0.60	0.39	---	---	---	---	---	---	---
4	---	---	---	0.63	0.27	---	---	---	---	---	---	---
5	---	---	---	0.67	0.37	---	---	---	---	---	---	---
6	---	---	---	0.71	0.45	---	---	---	---	---	---	---
7	---	---	---	0.78	0.50	---	---	---	---	---	---	---
8	---	---	0.93	0.82	0.53	---	---	---	---	---	---	---
9	---	---	0.95	0.86	0.56	---	---	---	---	---	---	---
10	---	---	0.18	0.89	0.53	---	---	---	---	---	---	---
11	---	---	0.20	0.91	0.61	---	---	---	---	---	---	---
12	---	---	0.33	0.95	0.66	---	---	---	---	---	---	---
13	---	---	0.43	0.98	0.71	---	---	---	---	---	---	---
14	---	---	0.52	0.54	0.70	---	---	---	---	---	---	---
15	---	---	0.60	0.18	0.65	---	---	---	---	---	---	---
16	---	---	0.66	0.25	0.69	---	---	---	---	---	---	---
17	---	---	0.68	0.31	---	---	---	---	---	---	---	---
18	---	---	0.69	0.41	---	---	---	---	---	---	---	---
19	---	---	0.71	0.45	---	---	---	---	---	---	---	---
20	---	---	0.77	0.48	---	---	---	---	---	---	---	---
21	---	---	0.81	0.51	---	---	---	---	---	---	---	---
22	---	---	0.82	0.54	---	---	---	---	---	---	---	---
23	---	---	0.64	0.52	---	---	---	---	---	---	---	---
24	---	---	0.51	0.59	---	---	---	---	---	---	---	---
25	---	---	0.57	0.61	---	---	---	---	---	---	---	---
26	---	---	0.17	0.62	---	---	---	---	---	---	---	---
27	---	---	0.14	0.68	---	---	---	---	---	---	---	---
28	---	---	0.25	0.73	---	---	---	---	---	---	---	---
29	---	---	0.34	0.73	---	---	---	---	---	---	---	---
30	---	---	0.41	0.33	---	---	---	---	---	---	---	---
31	---	---	0.47	0.22	---	---	---	---	---	---	---	---

WTR YR 2005 MEAN 0.56 HIGH 0.14 LOW 0.98

GROUND-WATER LEVELS  
ONSLow COUNTY—Continued

343442077292301. County number, ON-312; Great Sandy Run well.



## ORANGE COUNTY

355522079043001. Local number, NC-126; County number, OR-069.

LOCATION.--Lat 35°54'31", long 79°03'29", Hydrologic Unit 03030002, in Chapel Hill, west of University of North Carolina campus, southeast of intersection of Cameron Avenue and Ransom Street. Owner: Chi Psi Fraternity.

AQUIFER.--Unconfined saprolite derived from granite of Paleozoic age.

WELL CHARACTERISTICS.--Dug observation well, depth 48 ft, diameter 36 in., lined with rock; measured depth 46.2 ft, August 1986.

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

DATUM.--Land-surface datum is 511.50 ft above NGVD of 1929. Measuring point: Top of shelf, 3.27 ft above land-surface datum.

REMARKS.-- Well is part of terrane-effects network. Well found dry from October 13, 1988 to January 24, 1989. No periodic measurements made from January 24 to July 19, 1989.

PERIOD OF RECORD.--January 1943 to current year. Continuous record January 1943 to March 1948, December 1999 to current year.

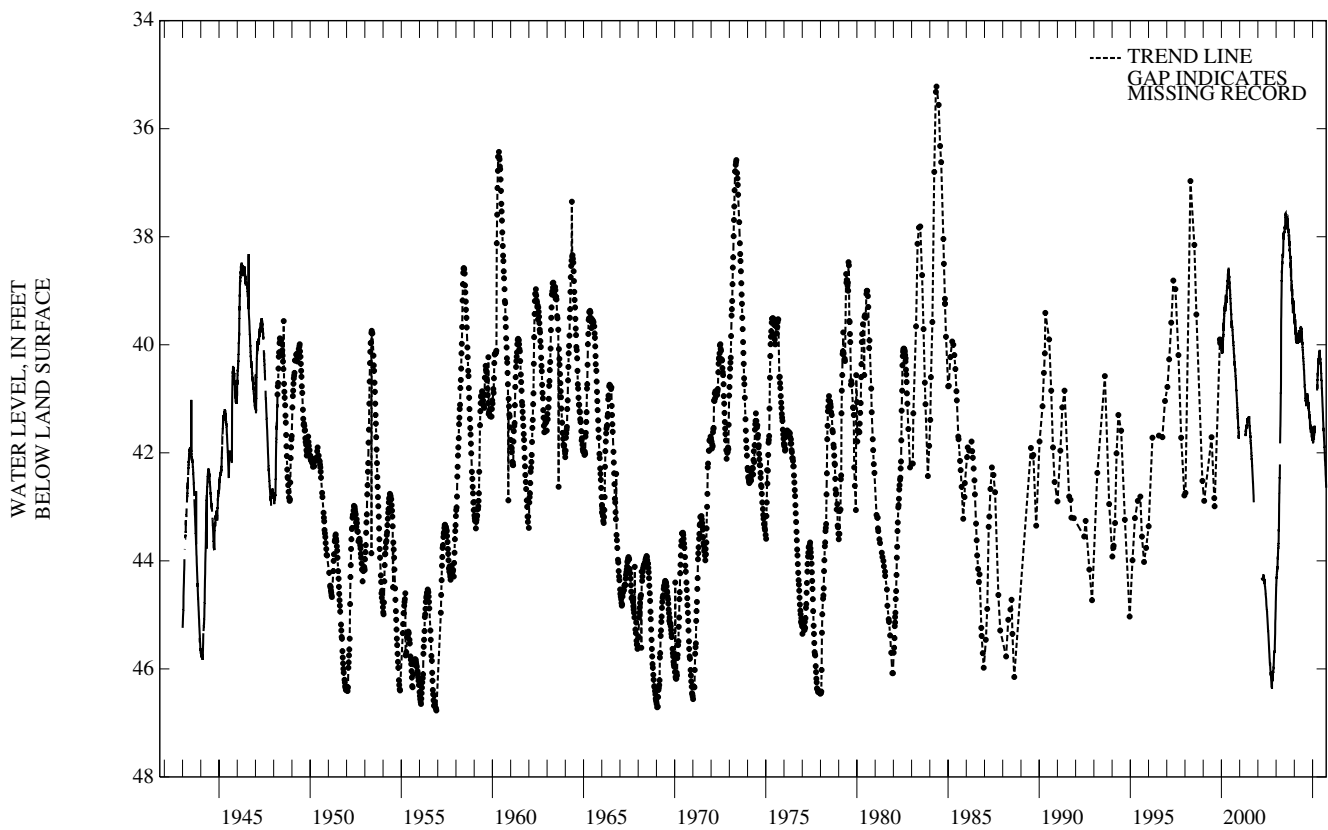
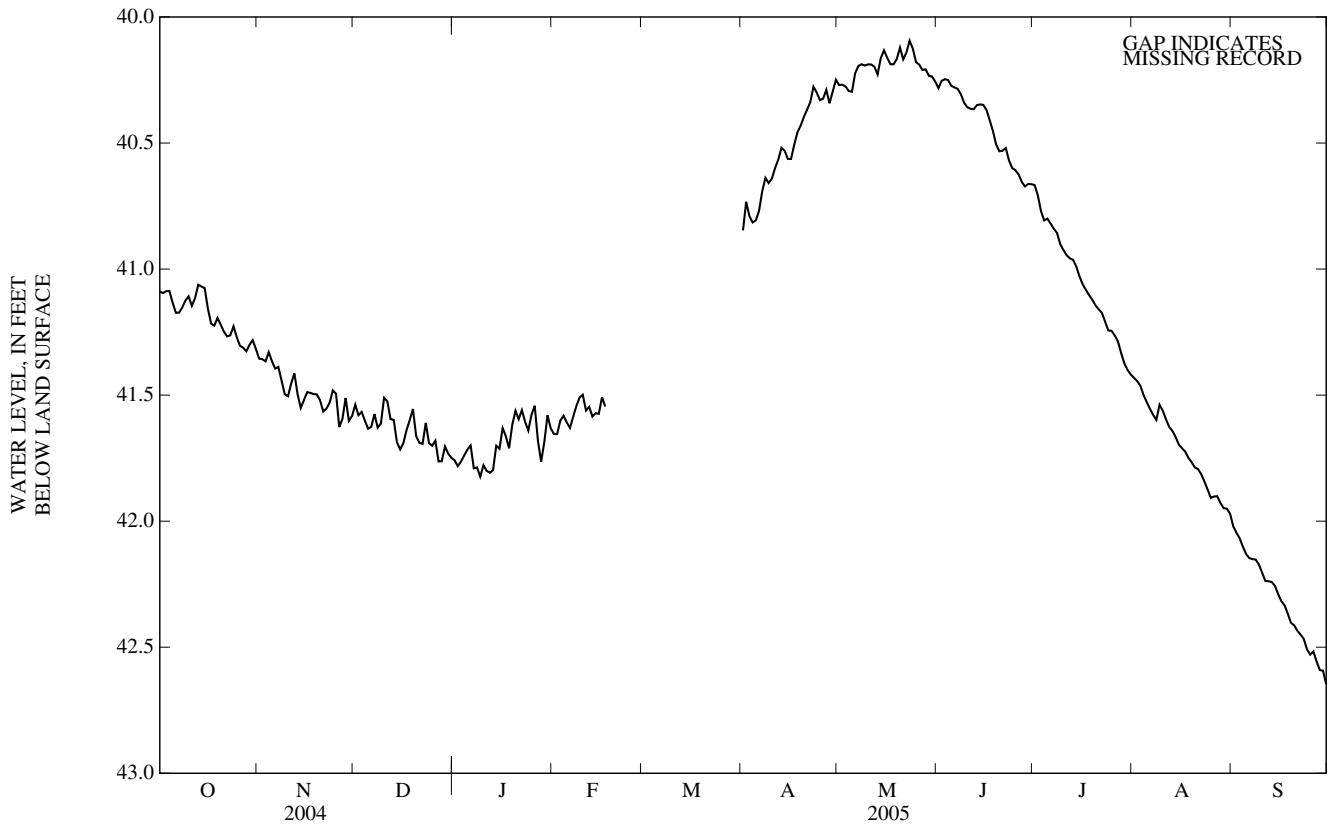
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 35.22 ft below land-surface datum, May 14, 1984; lowest water level occurred during periods when well was dry, Oct. 11 to Dec. 31, 1940, and Oct. 13, 1988 to Jan. 24, 1989.

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	41.09	41.36	41.54	41.76	41.65	---	40.85	40.27	40.28	40.67	41.43	42.02
2	41.09	41.36	41.58	41.78	41.65	---	40.73	40.27	40.25	40.71	41.44	42.05
3	41.09	41.37	41.57	41.76	41.60	---	40.79	40.28	40.25	40.77	41.46	42.07
4	41.09	41.33	41.60	41.74	41.58	---	40.81	40.29	40.25	40.81	41.50	42.10
5	41.13	41.37	41.63	41.72	41.61	---	40.81	40.30	40.27	40.80	41.53	42.13
6	41.17	41.39	41.63	41.70	41.63	---	40.77	40.22	40.28	40.82	41.55	42.15
7	41.17	41.39	41.58	41.79	41.59	---	40.69	40.19	40.29	40.84	41.58	42.15
8	41.15	41.44	41.63	41.79	41.54	---	40.64	40.19	40.31	40.86	41.60	42.15
9	41.12	41.50	41.61	41.82	41.51	---	40.66	40.19	40.34	40.90	41.54	42.17
10	41.11	41.50	41.51	41.78	41.50	---	40.64	40.19	40.36	40.92	41.56	42.20
11	41.15	41.45	41.52	41.80	41.56	---	40.60	40.19	40.36	40.95	41.60	42.24
12	41.12	41.41	41.59	41.81	41.55	---	40.57	40.20	40.37	40.96	41.63	42.24
13	41.06	41.50	41.60	41.80	41.58	---	40.52	40.23	40.35	40.96	41.64	42.24
14	41.07	41.55	41.69	41.70	41.57	---	40.53	40.16	40.35	40.99	41.67	42.26
15	41.08	41.52	41.72	41.71	41.57	---	40.56	40.13	40.35	41.03	41.70	42.29
16	41.16	41.49	41.69	41.63	41.51	---	40.56	40.16	40.37	41.06	41.71	42.32
17	41.22	41.49	41.64	41.66	41.55	---	40.51	40.19	40.41	41.08	41.72	42.33
18	41.22	41.50	41.60	41.71	---	---	40.46	40.19	40.45	41.10	41.75	42.37
19	41.19	41.50	41.55	41.62	---	---	40.43	40.17	40.51	41.12	41.77	42.40
20	41.22	41.52	41.66	41.56	---	---	40.40	40.12	40.53	41.14	41.79	42.41
21	41.25	41.56	41.69	41.60	---	---	40.37	40.17	40.53	41.16	41.79	42.43
22	41.27	41.55	41.69	41.56	---	---	40.34	40.14	40.52	41.17	41.81	42.45
23	41.26	41.53	41.61	41.61	---	---	40.28	40.09	40.57	41.21	41.84	42.47
24	41.23	41.48	41.69	41.64	---	---	40.30	40.13	40.60	41.24	41.87	42.51
25	41.27	41.49	41.70	41.58	---	---	40.33	40.18	40.61	41.24	41.91	42.53
26	41.30	41.63	41.68	41.54	---	---	40.32	40.19	40.62	41.26	41.90	42.52
27	41.31	41.59	41.76	41.68	---	---	40.29	40.21	40.65	41.29	41.90	42.56
28	41.33	41.51	41.76	41.76	---	---	40.34	40.21	40.67	41.33	41.93	42.59
29	41.30	41.60	41.70	41.69	---	---	40.30	40.23	40.66	41.37	41.95	42.59
30	41.28	41.58	41.73	41.58	---	---	40.25	40.24	40.66	41.40	41.95	42.65
31	41.32	---	41.75	41.63	---	---	---	40.26	---	41.42	41.97	---
WTR YR	2005	MEAN	41.24	HIGH	40.09	LOW	42.65					

GROUND-WATER LEVELS  
ORANGE COUNTY—Continued

355522079043001. Local number, NC-126; County number, OR-069.



## PASQUOTANK COUNTY

361829076163201. Local number, NC-195; County number, PK-141.

LOCATION.--Lat 36°18'30.1", long 76°16'31.4", Hydrologic Unit 03010205, northwest of Elizabeth City, 1.2 mi west of Secondary Road 1307 on Secondary Road 1309. Owner: U.S. Geological Survey.

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

WELL CHARACTERISTICS.--Bored observation well, augered to 13.0 ft, diameter 4 in., cased to 2.4 ft, screened interval from 2.4 to 12.4 ft.

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

DATUM.--Land-surface datum is 15 ft above NGVD of 1929 (from topographic map). Measuring point: Top of instrument shelf, 3.38 ft above land-surface datum.

REMARKS.--In October 1991, well replaced nearby NC-143. Well is part of climatic-effects network. Negative values of water levels in feet below land surface indicate ground-water levels that are above land surface.

PERIOD OF RECORD.--October 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 0.56 ft above land-surface datum, Oct. 1, 2000; lowest water level recorded, 6.15 ft below land-surface datum, Jan. 2, 2002.

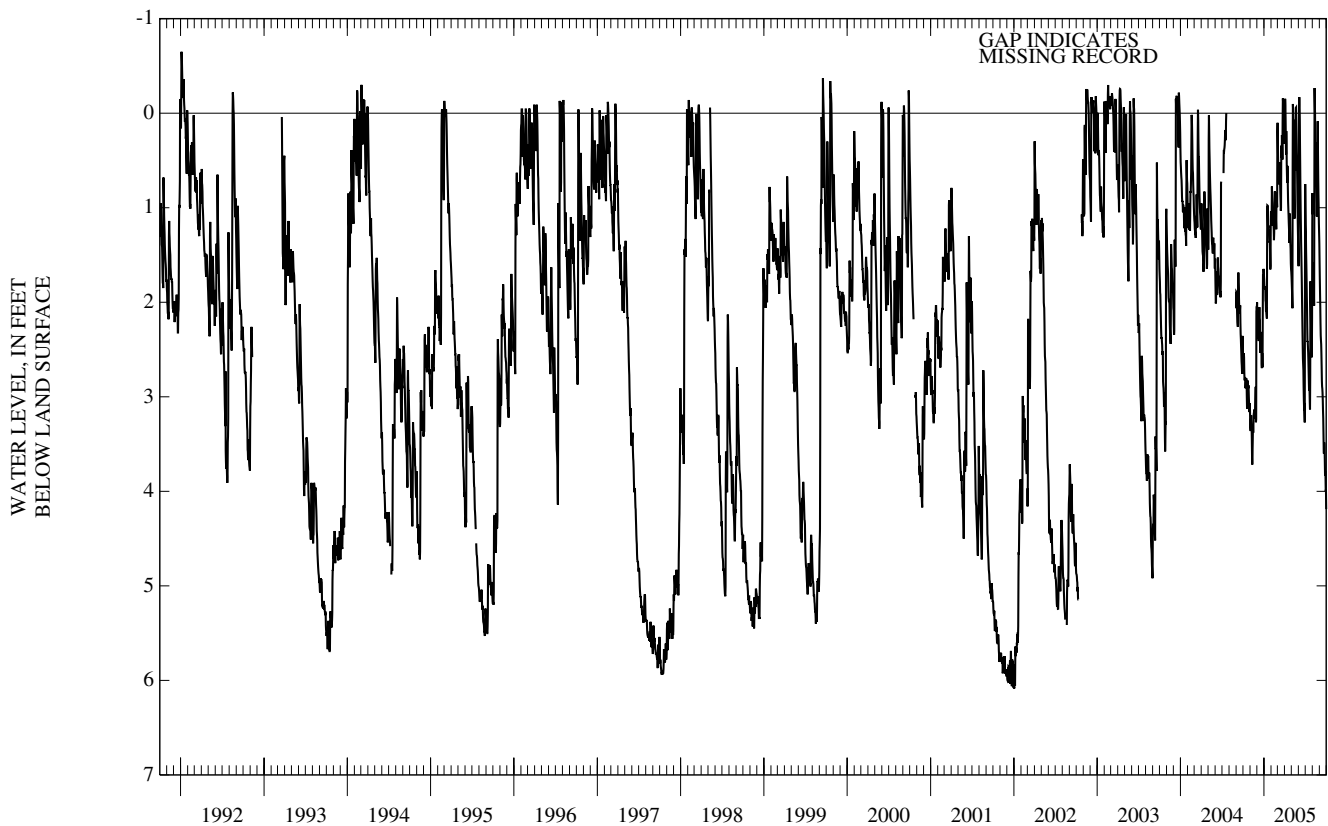
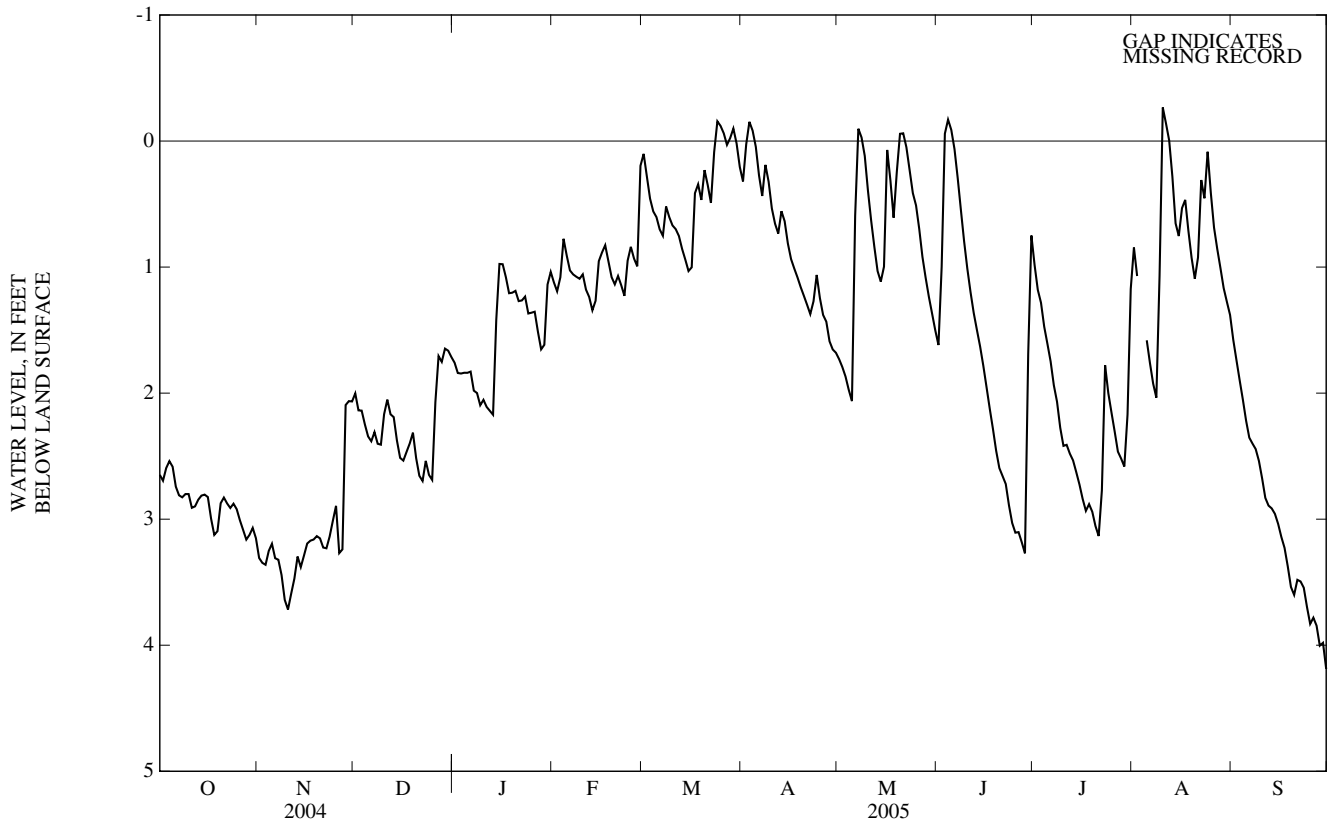
DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.65	3.31	2.00	1.76	1.12	0.10	0.32	1.73	1.62	0.98	0.84	1.58
2	2.69	3.35	2.14	1.84	1.19	0.28	0.03	1.79	1.00	1.18	1.07	1.74
3	2.59	3.36	2.14	1.84	1.08	0.46	-0.15	1.87	-0.06	1.28	---	1.90
4	2.54	3.25	2.25	1.84	0.78	0.56	-0.08	1.97	-0.17	1.47	---	2.05
5	2.58	3.19	2.34	1.84	0.91	0.60	0.05	2.06	-0.09	1.61	1.58	2.22
6	2.74	3.31	2.38	1.83	1.03	0.70	0.27	0.59	0.06	1.75	1.76	2.35
7	2.81	3.32	2.31	1.98	1.06	0.75	0.44	-0.10	0.29	1.94	1.92	2.40
8	2.83	3.44	2.40	2.00	1.08	0.52	0.19	-0.03	0.55	2.07	2.04	2.44
9	2.80	3.64	2.41	2.10	1.09	0.60	0.32	0.12	0.79	2.27	1.07	2.54
10	2.80	3.72	2.17	2.05	1.06	0.67	0.53	0.39	1.01	2.42	-0.27	2.68
11	2.91	3.59	2.05	2.11	1.18	0.70	0.66	0.63	1.20	2.41	-0.14	2.83
12	2.90	3.47	2.17	2.14	1.24	0.75	0.73	0.84	1.36	2.48	0.00	2.89
13	2.85	3.30	2.19	2.17	1.34	0.86	0.56	1.03	1.50	2.53	0.28	2.91
14	2.81	3.38	2.38	1.42	1.27	0.94	0.64	1.11	1.63	2.63	0.65	2.96
15	2.81	3.29	2.51	0.98	0.95	1.03	0.81	1.00	1.78	2.72	0.75	3.04
16	2.82	3.19	2.54	0.98	0.88	1.00	0.94	0.07	1.95	2.84	0.53	3.14
17	3.00	3.17	2.47	1.08	0.83	0.41	1.01	0.31	2.12	2.93	0.47	3.23
18	3.12	3.16	2.40	1.21	0.95	0.34	1.08	0.61	2.28	2.88	0.71	3.37
19	3.10	3.13	2.31	1.20	1.08	0.47	1.16	0.24	2.46	2.94	0.93	3.54
20	2.87	3.15	2.52	1.19	1.14	0.23	1.23	-0.06	2.59	3.05	1.09	3.60
21	2.83	3.23	2.66	1.27	1.07	0.35	1.30	-0.06	2.66	3.13	0.92	3.48
22	2.88	3.23	2.70	1.26	1.14	0.49	1.37	0.05	2.72	2.77	0.31	3.49
23	2.91	3.14	2.54	1.23	1.23	0.09	1.27	0.23	2.89	1.78	0.45	3.54
24	2.88	3.01	2.65	1.37	0.95	-0.16	1.06	0.41	3.03	2.00	0.09	3.70
25	2.92	2.89	2.69	1.36	0.84	-0.12	1.25	0.51	3.11	2.15	0.41	3.83
26	3.01	3.27	2.07	1.35	0.93	-0.06	1.38	0.70	3.10	2.31	0.69	3.78
27	3.08	3.24	1.71	1.51	0.99	0.03	1.43	0.92	3.18	2.46	0.86	3.84
28	3.16	2.09	1.75	1.65	0.20	-0.02	1.59	1.08	3.27	2.52	1.01	4.00
29	3.12	2.06	1.65	1.62	---	-0.10	1.65	1.24	1.69	2.58	1.17	3.98
30	3.07	2.07	1.66	1.14	---	0.02	1.68	1.37	0.75	2.17	1.27	4.19
31	3.15	---	1.71	1.04	---	0.21	---	1.50	---	1.17	1.38	---

WTR YR 2005 MEAN 1.73 HIGH -0.27 LOW 4.19

GROUND-WATER LEVELS  
PASQUOTANK COUNTY—Continued

361829076163201. Local number, NC-195; County number, PK-141.



## PITT COUNTY

353219077153801. Local number, NC-160; County number, PI-532.

LOCATION.--Lat 35°32'18", long 77°15'41", Hydrologic Unit 03020103, 2.7 mi southwest of Simpson at intersection of Secondary Roads 1755 and 1769.  
Owner: U.S. Geological Survey.

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

WELL CHARACTERISTICS.--Bored observation well, augered to 12 ft, diameter 6 in., cased to 5.9 ft, screened interval from 5.9 to 10.9 ft.

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

DATUM.--Land-surface datum is 56.27 ft above NGVD of 1929 (levels by Soil Conservation Service). Measuring point: Top of instrument shelf, 3.72 ft above land-surface datum.

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

PERIOD OF RECORD.--December 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 0.55 ft below land-surface datum, Sept. 16, 1999; lowest water level recorded, 8.87 ft below land-surface datum, Oct. 10, 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	4.80	5.14	3.60	3.31	3.20	3.05	3.17	3.95	4.32	3.73	3.50	4.77
2	4.84	5.18	3.65	3.35	3.26	3.19	2.64	4.00	4.01	3.84	---	4.88
3	4.89	5.23	3.69	3.37	3.28	3.27	2.68	4.08	3.90	3.94	---	5.00
4	4.93	5.22	3.74	3.40	3.26	3.33	2.90	4.15	3.88	4.03	---	5.13
5	5.01	5.30	3.80	3.43	3.33	3.37	3.04	4.18	3.94	4.10	---	5.26
6	5.09	5.38	3.82	3.45	3.39	3.42	3.14	3.04	3.99	4.19	---	5.38
7	5.15	5.44	3.83	3.54	3.41	3.46	3.18	2.68	4.00	4.32	---	5.47
8	5.20	5.54	3.90	3.55	3.43	3.45	3.04	2.91	3.82	4.42	---	5.58
9	5.23	5.64	3.85	3.60	3.46	3.53	3.09	3.08	3.86	4.55	---	5.71
10	5.29	5.68	3.64	3.61	3.48	3.54	3.20	3.20	3.93	4.66	3.63	5.85
11	5.38	5.68	3.50	3.65	3.56	3.55	3.28	3.31	4.01	4.76	3.72	5.99
12	5.42	5.55	3.56	3.69	3.60	3.56	3.31	3.40	4.08	4.83	3.69	6.07
13	5.14	4.47	3.61	3.72	3.67	3.62	2.99	3.37	4.16	4.85	3.79	6.16
14	4.57	4.24	3.69	3.43	3.64	3.50	2.59	3.40	4.24	4.83	3.90	5.66
15	4.49	4.21	3.75	3.08	3.63	3.45	2.84	3.47	4.34	4.83	4.00	4.11
16	4.52	4.20	3.78	3.07	3.62	3.34	3.00	3.37	4.47	4.68	3.98	3.78
17	4.60	4.23	3.80	3.15	3.69	2.63	3.10	3.45	4.58	4.80	3.14	3.87
18	4.63	4.26	3.81	3.25	3.74	2.71	3.19	3.54	4.67	4.80	3.13	3.84
19	4.62	4.29	3.82	3.26	3.78	2.87	3.27	3.55	4.77	4.95	3.27	3.94
20	4.63	4.32	3.92	3.31	3.78	2.87	3.33	3.54	4.85	5.09	3.38	4.01
21	4.65	4.35	3.94	3.35	3.75	2.97	3.41	3.58	4.92	5.20	3.49	4.01
22	4.69	4.36	3.94	3.32	3.80	3.06	3.45	3.64	5.00	5.31	3.62	4.09
23	4.73	4.24	3.85	3.36	3.84	2.86	3.46	3.69	5.13	5.19	3.73	4.21
24	4.74	4.06	3.65	3.40	3.70	2.80	3.57	3.77	5.20	5.24	3.81	4.29
25	4.78	4.09	3.63	3.43	3.62	2.93	3.66	3.82	5.26	5.43	3.95	4.33
26	4.82	4.20	3.48	3.45	3.65	3.05	3.70	3.90	5.32	5.56	4.05	4.38
27	4.87	4.16	3.25	3.56	3.66	3.10	3.74	4.00	5.44	5.68	4.16	4.36
28	4.93	3.75	3.19	3.59	3.18	2.98	3.85	4.06	5.18	5.81	4.27	4.47
29	4.95	3.60	3.19	3.58	---	2.98	3.87	4.15	4.06	5.67	4.38	4.55
30	4.97	3.58	3.23	3.26	---	3.10	3.90	4.21	3.73	5.44	4.48	4.67
31	5.05	---	3.26	3.13	---	3.16	---	4.28	---	5.13	4.61	---

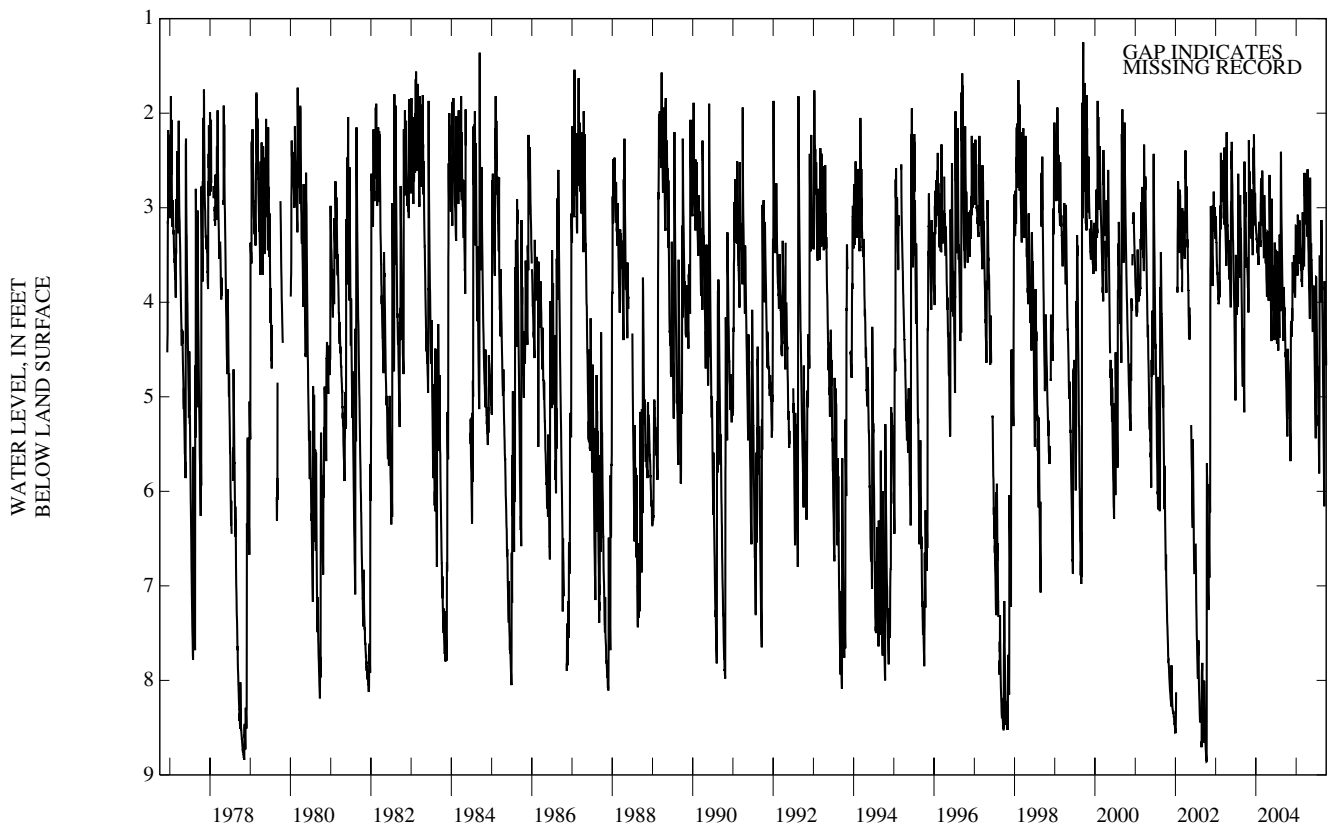
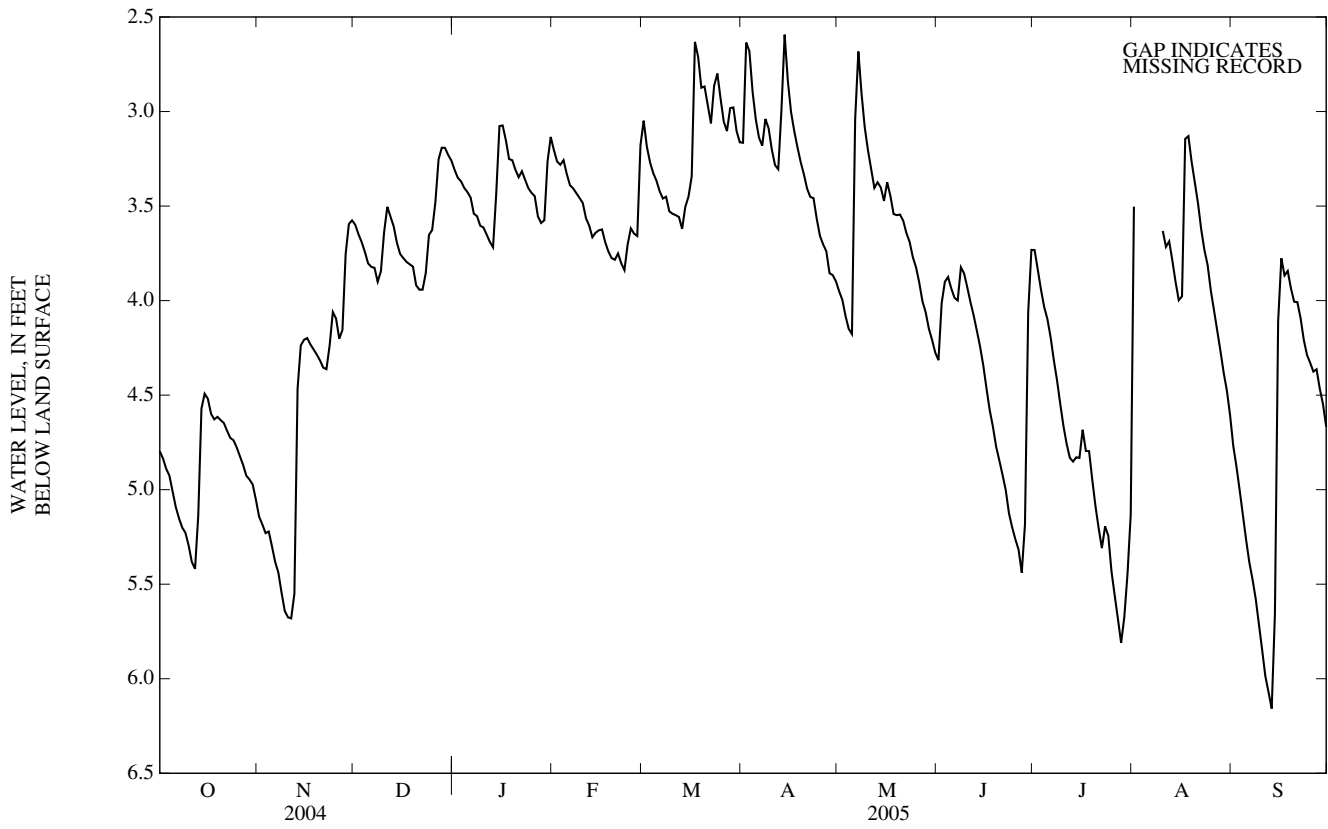
WTR YR 2005 MEAN 4.01 HIGH 2.59 LOW 6.16



GROUND-WATER LEVELS

PITT COUNTY—Continued

353219077153801. Local number, NC-160; County number, PI-532.



PITT COUNTY—Continued

353143077303501. County number, PI-614; Ballard's Crossroads well.

LOCATION.--Lat 35°31'44", long 77°30'34", Hydrologic Unit 03020203, at intersection of Crossroads Road and Pocosin Road in Pitt County. Owner: U.S. Geological Survey.

WATER-LEVEL RECORDS

AQUIFER.--Surficial aquifer.

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 15-minute intervals. Satellite telemetry at station.

DATUM.--Land-surface datum is 75 ft above NGVD of 1929 (from topographic map). Measuring point: Bottom of shelter floor, 3.26 ft above land-surface datum.

REMARKS.--Well is operated as part of a U.S. Geological Survey Ground-water Resources Program recharge study.

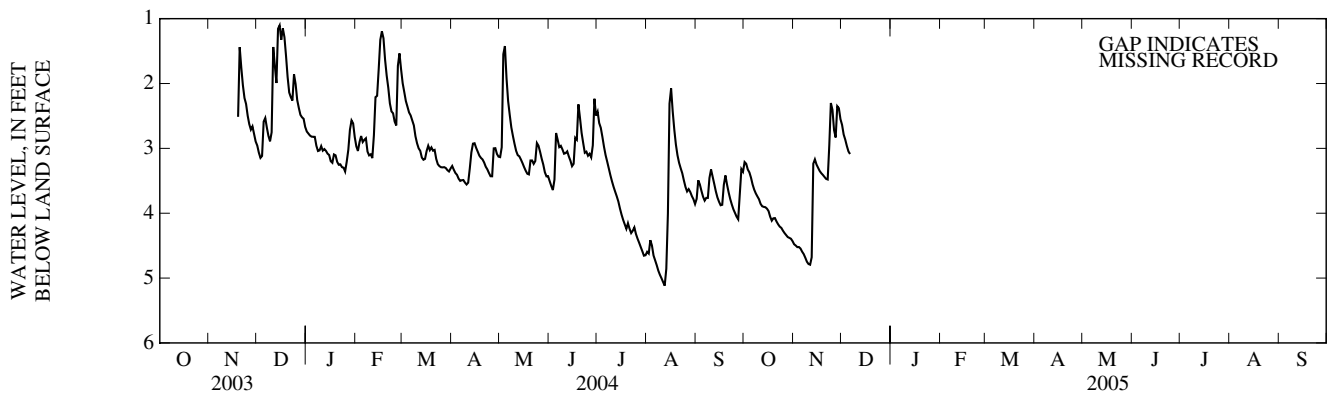
PERIOD OF RECORD.--November 2003 to December 2004 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 0.81 ft below land-surface datum, Dec. 14, 2003; lowest water level recorded, 5.14 ft below land-surface datum, Aug. 12, 13, 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	3.21	4.48	2.64	---	---	---	---	---	---	---	---	---
2	3.24	4.50	2.79	---	---	---	---	---	---	---	---	---
3	3.33	4.52	2.87	---	---	---	---	---	---	---	---	---
4	3.37	4.52	2.96	---	---	---	---	---	---	---	---	---
5	3.45	4.54	3.05	---	---	---	---	---	---	---	---	---
6	3.56	4.59	3.09	---	---	---	---	---	---	---	---	---
7	3.63	4.63	---	---	---	---	---	---	---	---	---	---
8	3.69	4.69	---	---	---	---	---	---	---	---	---	---
9	3.74	4.75	---	---	---	---	---	---	---	---	---	---
10	3.78	4.78	---	---	---	---	---	---	---	---	---	---
11	3.85	4.79	---	---	---	---	---	---	---	---	---	---
12	3.89	4.68	---	---	---	---	---	---	---	---	---	---
13	3.90	3.24	---	---	---	---	---	---	---	---	---	---
14	3.91	3.17	---	---	---	---	---	---	---	---	---	---
15	3.93	3.25	---	---	---	---	---	---	---	---	---	---
16	3.97	3.30	---	---	---	---	---	---	---	---	---	---
17	4.05	3.35	---	---	---	---	---	---	---	---	---	---
18	4.12	3.38	---	---	---	---	---	---	---	---	---	---
19	4.08	3.41	---	---	---	---	---	---	---	---	---	---
20	4.08	3.44	---	---	---	---	---	---	---	---	---	---
21	4.13	3.47	---	---	---	---	---	---	---	---	---	---
22	4.17	3.48	---	---	---	---	---	---	---	---	---	---
23	4.21	2.95	---	---	---	---	---	---	---	---	---	---
24	4.23	2.30	---	---	---	---	---	---	---	---	---	---
25	4.27	2.41	---	---	---	---	---	---	---	---	---	---
26	4.31	2.72	---	---	---	---	---	---	---	---	---	---
27	4.34	2.83	---	---	---	---	---	---	---	---	---	---
28	4.37	2.35	---	---	---	---	---	---	---	---	---	---
29	4.38	2.38	---	---	---	---	---	---	---	---	---	---
30	4.39	2.55	---	---	---	---	---	---	---	---	---	---
31	4.43	---	---	---	---	---	---	---	---	---	---	---

WTR YR 2005 MEAN 3.71 HIGH 2.30 LOW 4.79



PRECIPITATION RECORDS

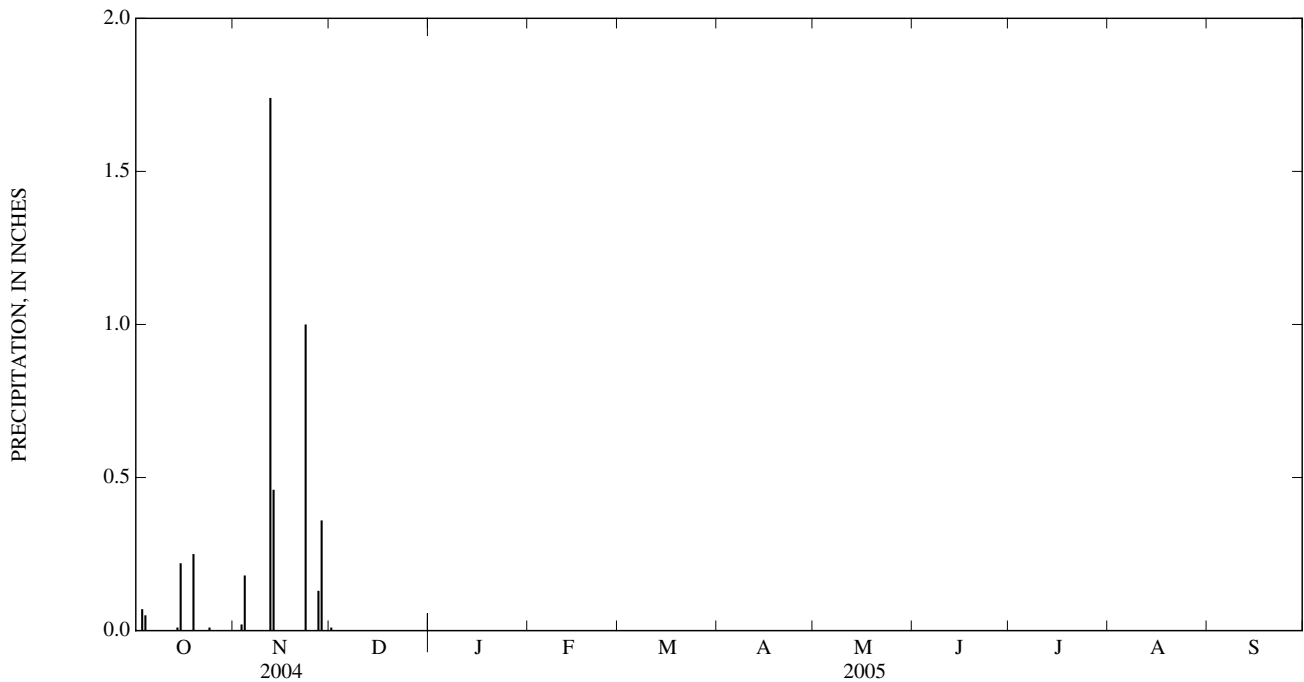
PERIOD OF RECORD.--November 2003 to December 2004.

GAGE.--Tipping-bucket raingage collecting data at 15-minute intervals. Satellite telemetry at station.

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	0.00	0.00	0.01	---	---	---	---	---	---	---	---	---
2	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---
3	0.07	0.02	0.00	---	---	---	---	---	---	---	---	---
4	0.05	0.18	0.00	---	---	---	---	---	---	---	---	---
5	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---
6	0.00	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	1.74	---	---	---	---	---	---	---	---	---	---
13	0.00	0.46	---	---	---	---	---	---	---	---	---	---
14	0.01	0.00	---	---	---	---	---	---	---	---	---	---
15	0.22	0.00	---	---	---	---	---	---	---	---	---	---
16	0.00	0.00	---	---	---	---	---	---	---	---	---	---
17	0.00	0.00	---	---	---	---	---	---	---	---	---	---
18	0.00	0.00	---	---	---	---	---	---	---	---	---	---
19	0.25	0.00	---	---	---	---	---	---	---	---	---	---
20	0.00	0.00	---	---	---	---	---	---	---	---	---	---
21	0.00	0.00	---	---	---	---	---	---	---	---	---	---
22	0.00	0.00	---	---	---	---	---	---	---	---	---	---
23	0.00	1.00	---	---	---	---	---	---	---	---	---	---
24	0.01	0.00	---	---	---	---	---	---	---	---	---	---
25	0.00	0.00	---	---	---	---	---	---	---	---	---	---
26	0.00	0.00	---	---	---	---	---	---	---	---	---	---
27	0.00	0.13	---	---	---	---	---	---	---	---	---	---
28	0.00	0.36	---	---	---	---	---	---	---	---	---	---
29	0.00	0.00	---	---	---	---	---	---	---	---	---	---
30	0.00	0.00	---	---	---	---	---	---	---	---	---	---
31	0.00	---	---	---	---	---	---	---	---	---	---	---
TOTAL	0.61	3.89	---	---	---	---	---	---	---	---	---	---



ROCKINGHAM COUNTY

362334079421601. County number, RK-227; DENR Upper Piedmont Research Station MW-N1S (Regolith well).

LOCATION.--Lat 36°23'35", long 79°42'17", Hydrologic Unit 03010103, .6 mi north of Wentworth St, .6 mi west of Secondary Road 1993 on North Carolina State University Research Farm. 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 15 ft, diameter 4 in., cased to 5 ft, screened interval from 5 to 15 ft, sand filter packed from 4 to 15 ft.

INSTRUMENTATION.--Measured periodically with electric tape by DENR.

DATUM.--Land-surface datum is 672.76 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.98 ft above land-surface datum.

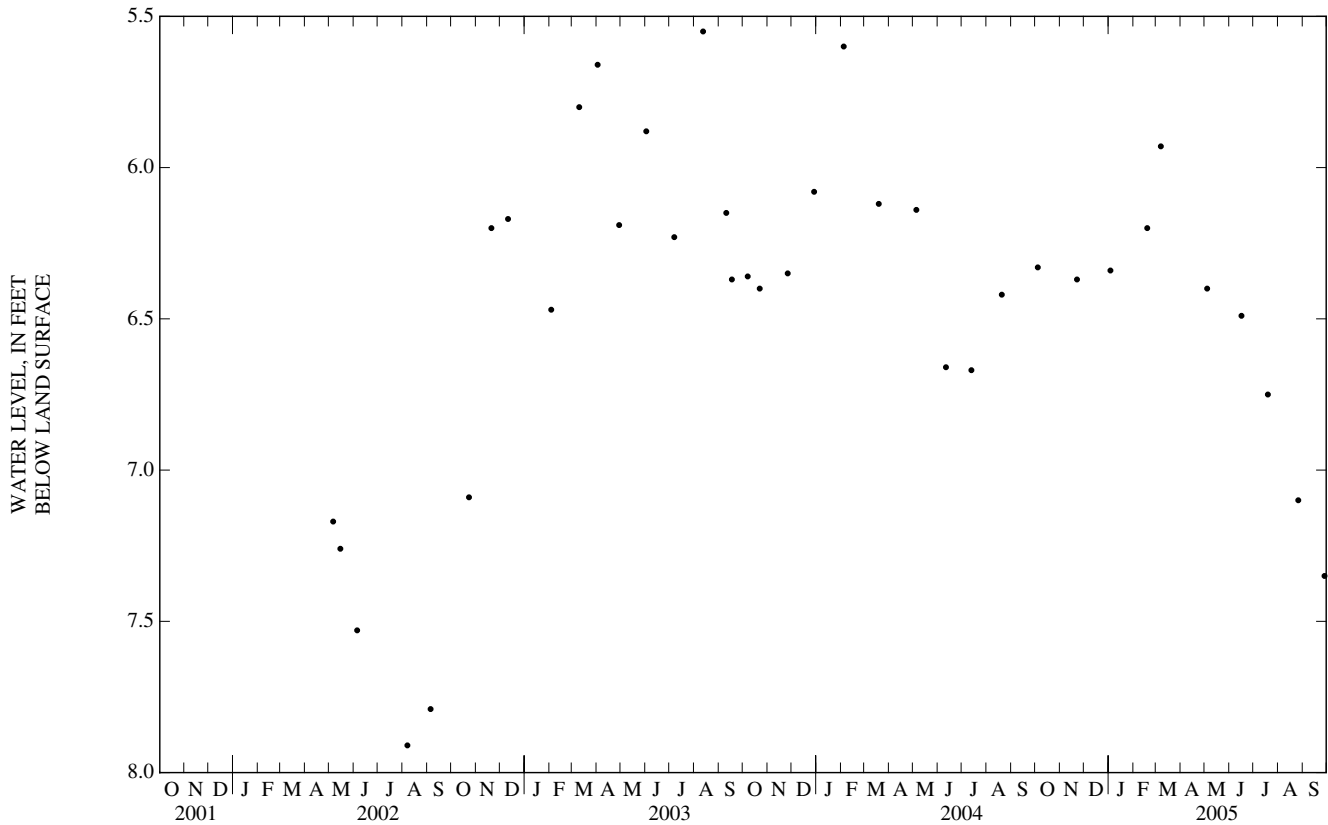
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--May 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.55 ft below land-surface datum, Aug. 12, 2003; lowest water level measured, 7.91 ft below land-surface datum, Aug. 7, 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	DATE	WATER LEVEL
OCT 04	6.33	JAN 03	6.34	MAR 07	5.93	JUN 16	6.49	AUG 26	7.10
NOV 22	6.37	FEB 18	6.20	MAY 04	6.40	JUL 19	6.75	SEP 28	7.35



GROUND-WATER LEVELS  
ROCKINGHAM COUNTY—Continued

362334079421602. County number, RK-228; DENR Upper Piedmont Research Station MW-N11 (Transition Zone well).

LOCATION.--Lat 36°23'35", long 79°42'17", Hydrologic Unit 03010103, .6 mi north of Wentworth Street, .6 mi west of Secondary Road 1993 on North Carolina State University Research Farm. 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 65 ft, diameter 4 in., cased to 50 ft, screened interval from 50 to 65 ft, sand filter packed from 20 to 50 ft, natural fill from 50 to 65 ft.

INSTRUMENTATION.--Measured periodically with electric tape by DENR.

DATUM.--Land-surface datum is 672.27 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.82 ft above land-surface datum.

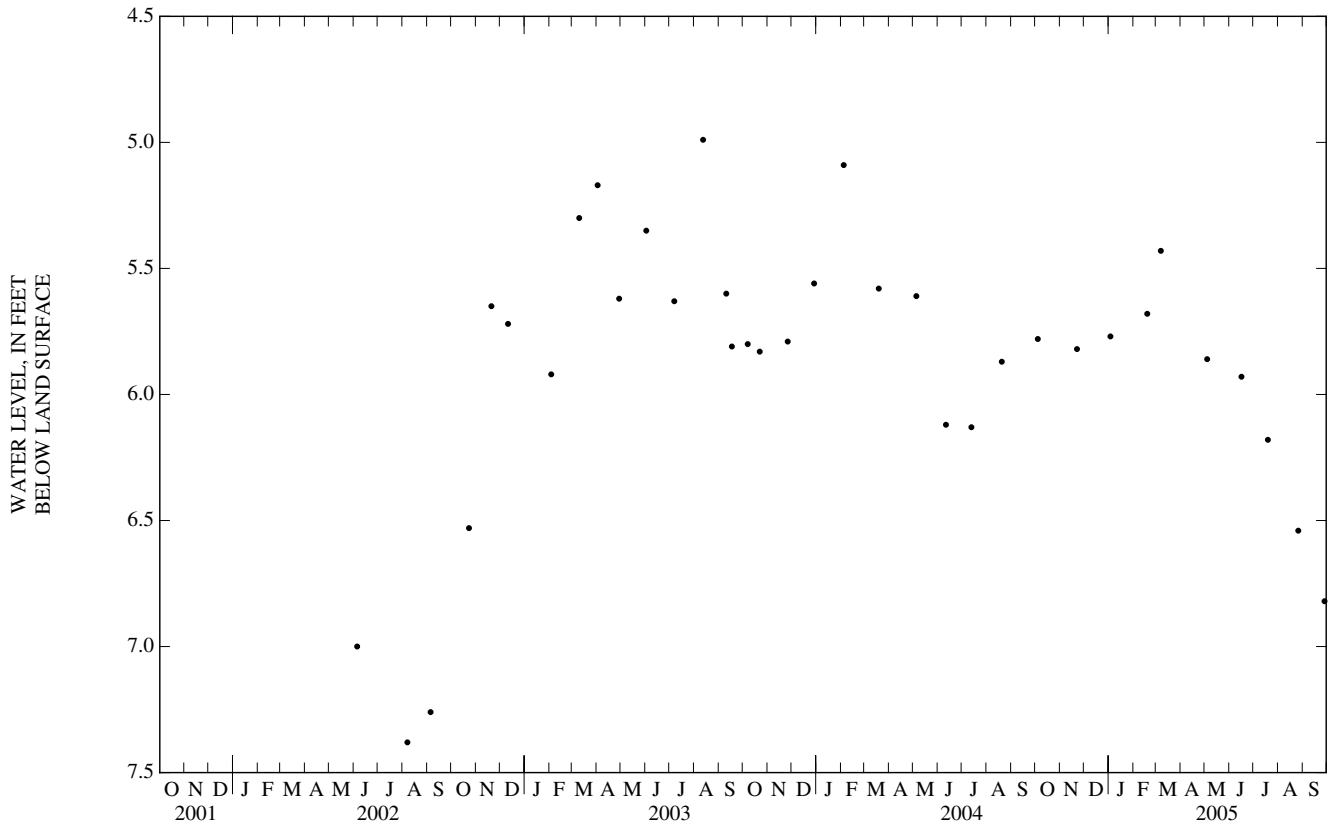
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--May 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.99 ft below land-surface datum, Aug. 12, 2003; lowest water level measured, 7.38 ft below land-surface datum, Aug. 7, 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	DATE	WATER LEVEL
OCT 04	5.78	JAN 03	5.77	MAR 07	5.43	JUN 16	5.93	AUG 26	6.54
NOV 22	5.82	FEB 18	5.68	MAY 04	5.86	JUL 19	6.18	SEP 28	6.82



ROCKINGHAM COUNTY—Continued

362334079421603. County number, RK-229; DENR Upper Piedmont Research Station MW-N1D (Bedrock well).

LOCATION.--Lat 36°23'35", long 79°42'17", Hydrologic Unit 03010103, .6 mi north of Wentworth Street, .6 mi west of Secondary Road 1993 on North Carolina State University Research Farm. 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 100 ft, open hole from 100 to 300 ft.

INSTRUMENTATION.--Measured periodically with electric tape by DENR.

DATUM.--Land-surface datum is 672.51 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.90 ft above land-surface datum.

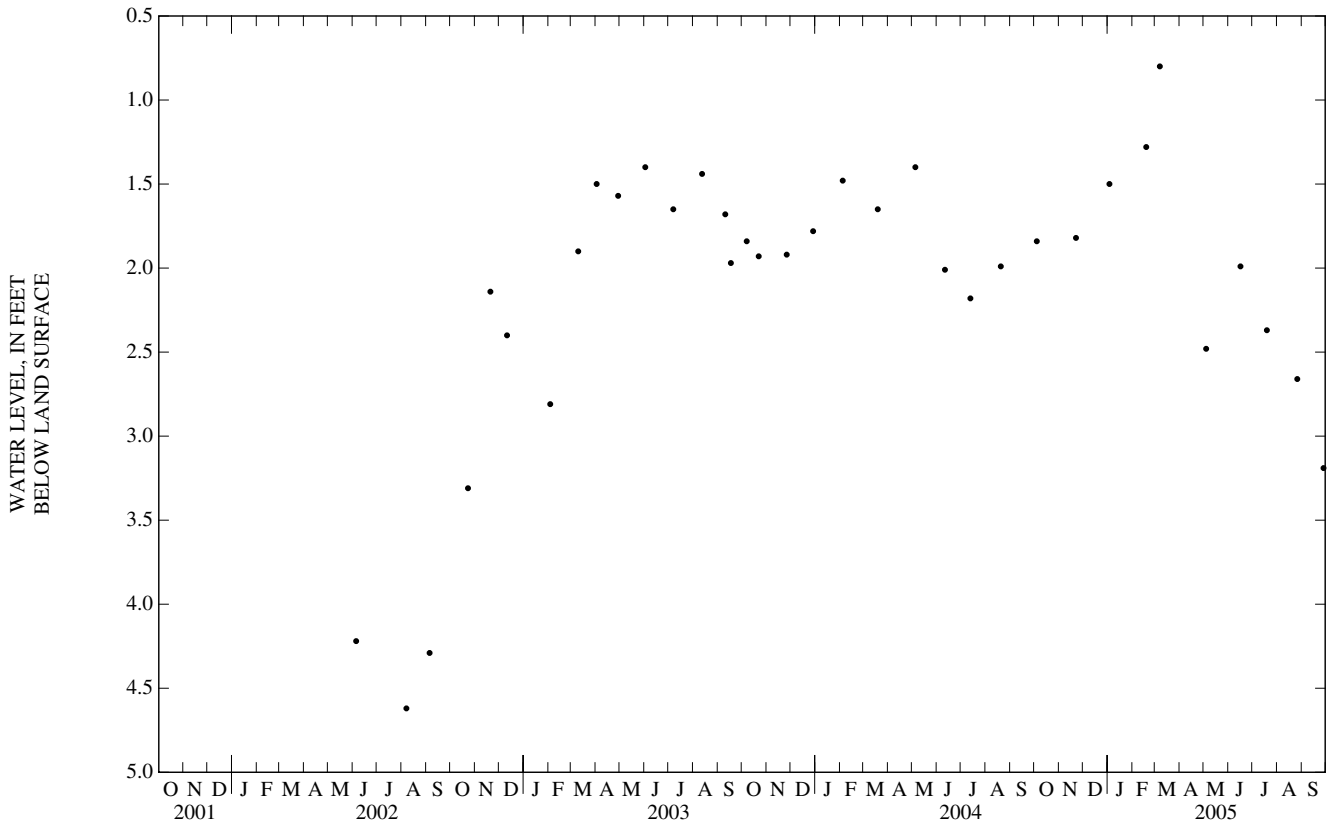
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--May 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.80 ft below land-surface datum, March 7, 2005; lowest water level measured, 4.62 ft below land-surface datum, Aug. 7, 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	DATE	WATER LEVEL
OCT 04	1.84	JAN 03	1.50	MAR 07	.80	JUN 16	1.99	AUG 26	2.66
NOV 22	1.82	FEB 18	1.28	MAY 04	2.48	JUL 19	2.37	SEP 28	3.19



GROUND-WATER LEVELS  
ROCKINGHAM COUNTY—Continued

362331079421601. County number, RK-230; DENR Upper Piedmont Research Station MW-N2S (Regolith well).

LOCATION.--Lat 36°23'32", long 79°42'17", Hydrologic Unit 03010103, .6 mi north of Wentworth Street, .6 mi west of Secondary Road 1993 on North Carolina State University Research Farm. 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 ft, diameter 4 in., cased to 3 ft, screened interval from 3 to 13 ft, sand filter packed from 3 to 13 ft.

INSTRUMENTATION.--Measured periodically with electric tape by DENR.

DATUM.--Land-surface datum is 672.48 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.47 ft above land-surface datum.

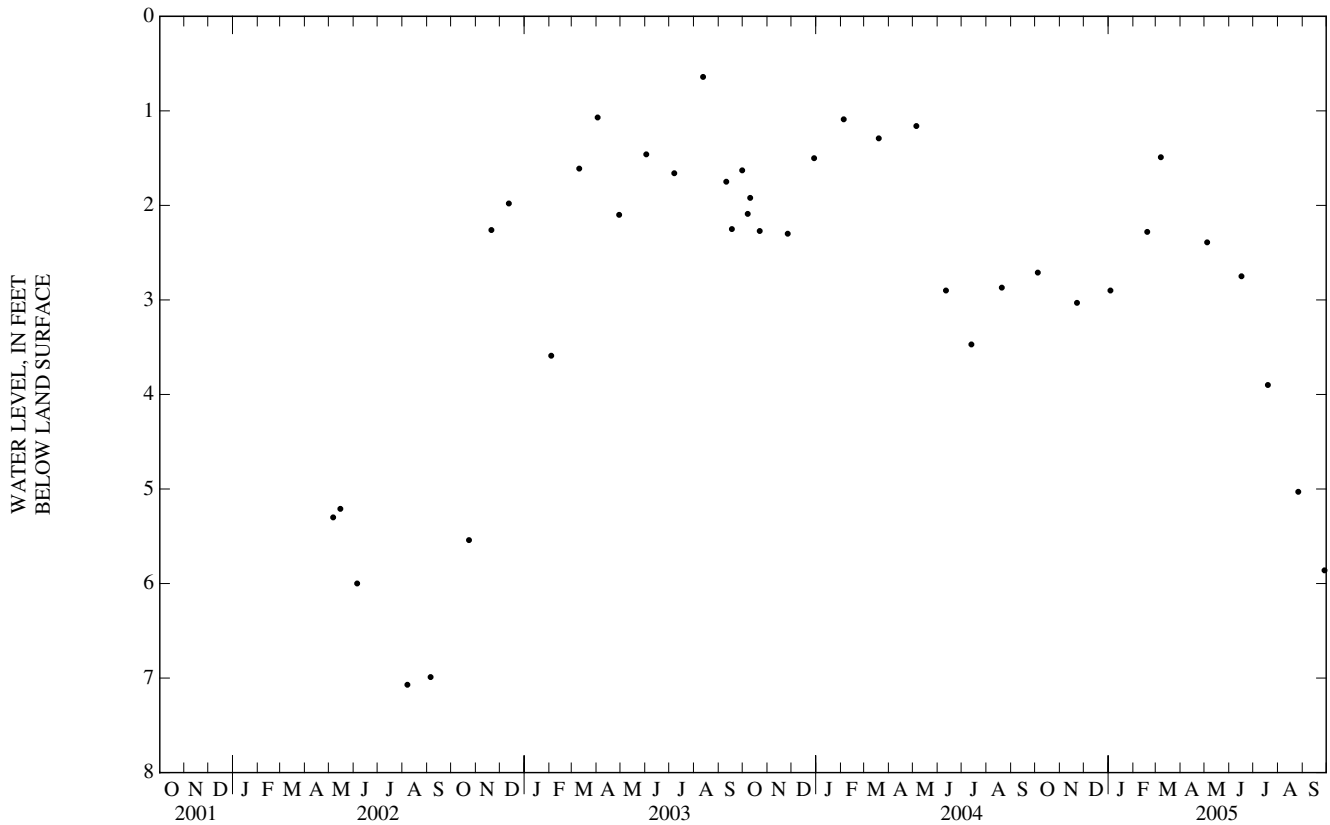
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--May 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.64 ft below land-surface datum, Aug. 12, 2003; lowest water level measured, 7.07 ft below land-surface datum, Aug. 7, 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	DATE	WATER LEVEL
OCT 04	2.71	JAN 03	2.90	MAR 07	1.49	JUN 16	2.75	AUG 26	5.03
NOV 22	3.03	FEB 18	2.28	MAY 04	2.39	JUL 19	3.90	SEP 28	5.86



ROCKINGHAM COUNTY—Continued

362331079421602. County number, RK-231; DENR Upper Piedmont Research Station MW-N2I (Transition Zone well).

LOCATION.--Lat 36°23'32", long 79°42'16", Hydrologic Unit 03010103, .6 mi north of Wentworth Street, .6 mi west of Secondary Road 1993 on North Carolina State University Research Farm. 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 25 ft, open hole from 25 to 50 ft.

INSTRUMENTATION.--Measured periodically with electric tape by DENR.

DATUM.--Land-surface datum is 671.56 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 3.06 ft above land-surface datum.

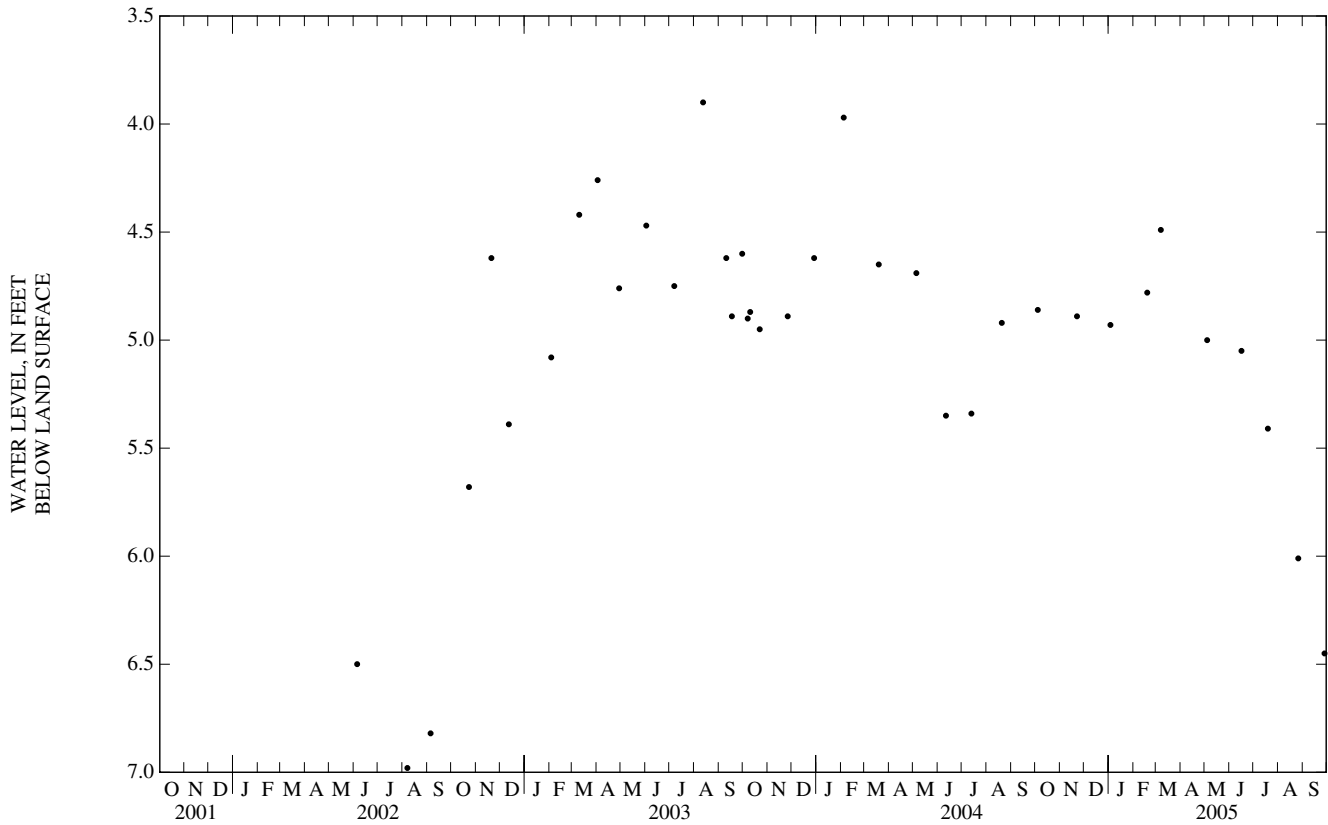
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--June 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.90 ft below land-surface datum, Aug. 12, 2003; lowest water level measured, 6.98 ft below land-surface datum, Aug. 7, 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	DATE	WATER LEVEL
OCT 04	4.86	JAN 03	4.93	MAR 07	4.49	JUN 16	5.05	AUG 26	6.01
NOV 22	4.89	FEB 18	4.78	MAY 04	5.00	JUL 19	5.41	SEP 28	6.45





GROUND-WATER LEVELS  
ROCKINGHAM COUNTY—Continued

362331079421603. County number, RK-232; DENR Upper Piedmont Research Station MW-N2D (Bedrock well).

LOCATION.--Lat 36°23'32", long 79°42'17", Hydrologic Unit 03010103, .6 mi north of Wentworth Street, .6 mi west of Secondary Road 1993 on North Carolina State University Research Farm. 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 4 in., cased to 60 ft, open hole from 60 to 300 ft.

INSTRUMENTATION.--Measured periodically with electric tape by DENR.

DATUM.--Land-surface datum is 671.91 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 3.01 ft above land-surface datum.

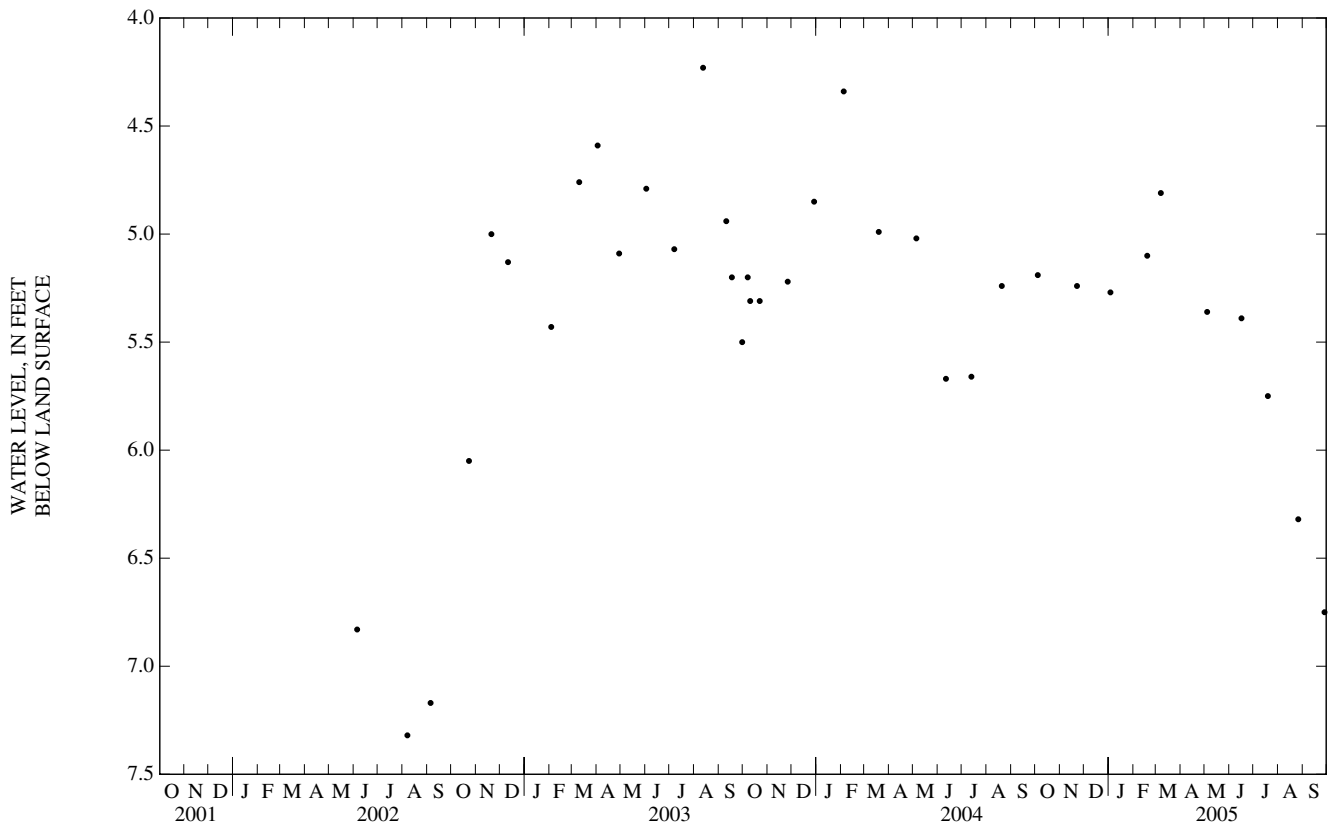
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--June 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.23 ft below land-surface datum, Aug. 12, 2003; lowest water level measured, 7.32 ft below land-surface datum, Aug. 7, 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	DATE	WATER LEVEL
OCT 04	5.19	JAN 03	5.27	MAR 07	4.81	JUN 16	5.39	AUG 26	6.32
NOV 22	5.24	FEB 18	5.10	MAY 04	5.36	JUL 19	5.75	SEP 28	6.75



ROCKINGHAM COUNTY—Continued

362328079421701. County number, RK-233; DENR Upper Piedmont Research Station MW-N3I (Transition Zone well).

LOCATION.--Lat 36°23'28", long 79°42'17", Hydrologic Unit 03010103, .6 mi north of Wentworth Street, .6 mi west of Secondary Road 1993 on North Carolina State University Research Farm. 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 25 to 50 ft, sand filter packed from 12 to 30 ft.

INSTRUMENTATION.--Measured periodically with electric tape by DENR.

DATUM.--Land-surface datum is 770.44 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.20 ft above land-surface datum.

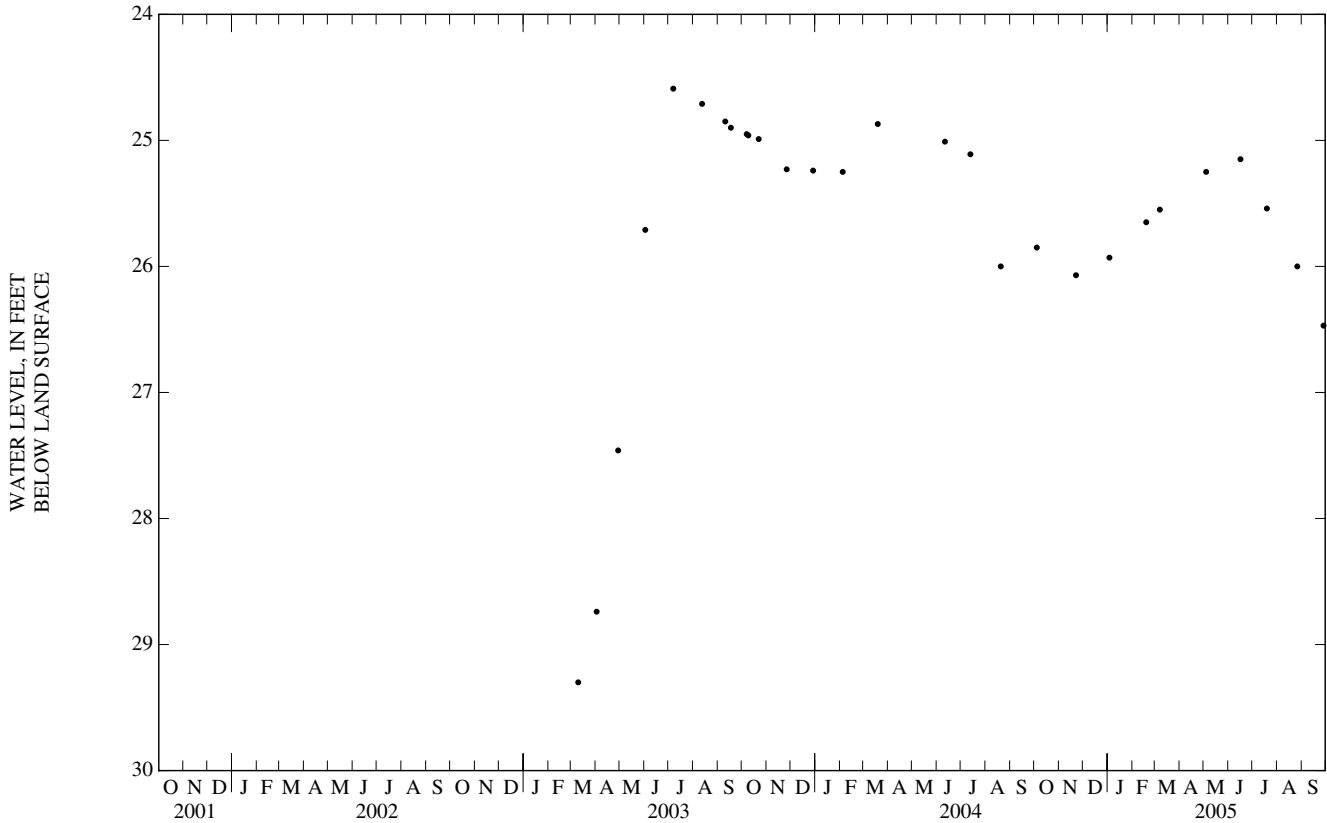
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--August 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 24.59 ft below land-surface datum, July 7, 2003; lowest water level measured, 29.30 ft below land-surface datum, Mar. 10, 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	DATE	WATER LEVEL
OCT 04	25.85	JAN 03	25.93	MAR 07	25.55	JUN 16	25.15	AUG 26	26.00
NOV 22	26.07	FEB 18	25.65	MAY 04	25.25	JUL 19	25.54	SEP 28	26.47



GROUND-WATER LEVELS

ROCKINGHAM COUNTY—Continued

362328079421702. County number, RK-234; DENR Upper Piedmont Research Station MW-N3D (Bedrock well).

LOCATION.--Lat 36°23'28", long 79°42'17", Hydrologic Unit 03010103, .6 mi north of Wentworth Street, .6 mi west of State Highway 1993 on North Carolina State University Research Farm. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Biotite Gneiss.

WELL CHARACTERISTICS.--Drilled observation well, depth 260 ft, diameter 6 in., cased to 40 ft, open hole from 40 to 300 ft.

INSTRUMENTATION.--Measured periodically with electric tape by DENR.

DATUM.--Land-surface datum is 770.26 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.26 ft above land-surface datum.

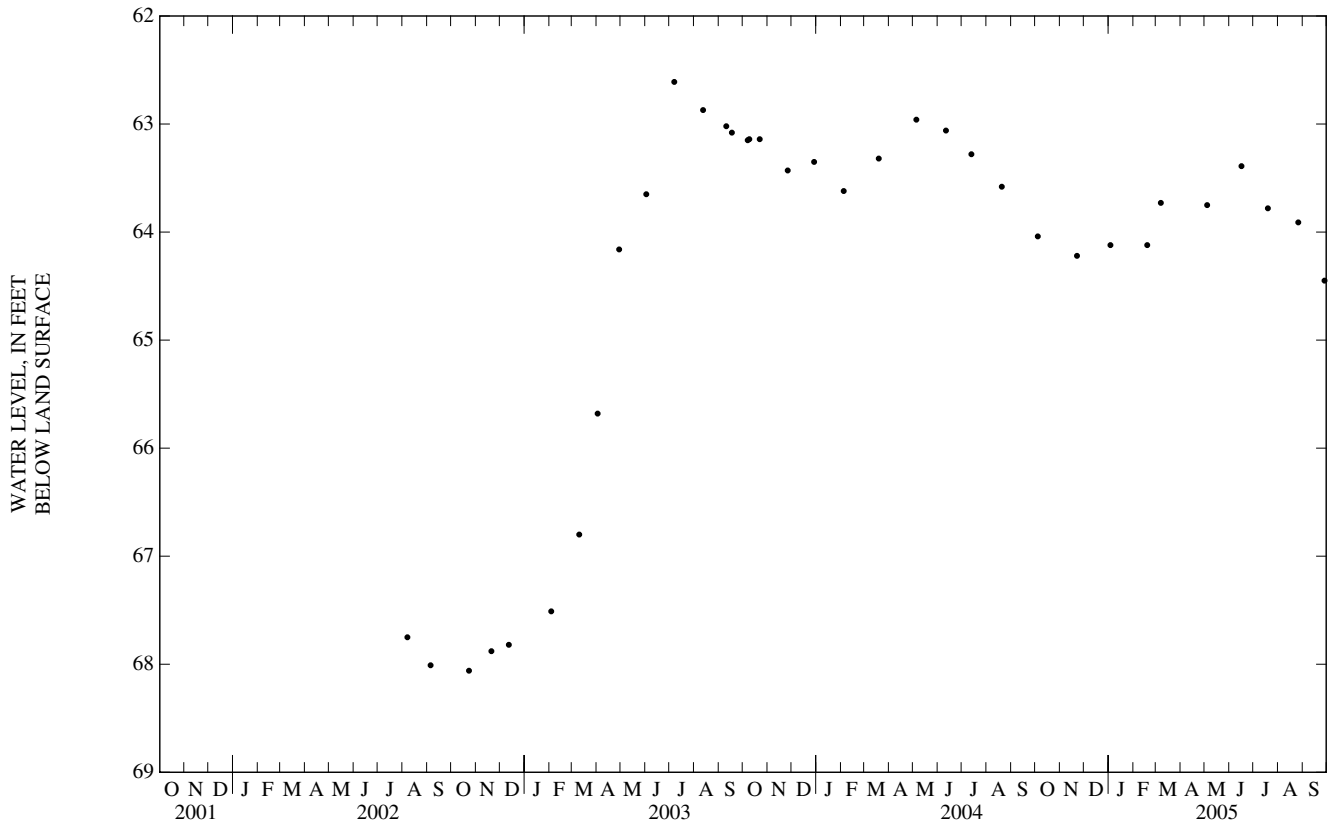
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--August 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 62.61 ft below land-surface datum, July 7, 2003; lowest water level measured, 68.06 ft below land-surface datum, Oct. 23, 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	DATE	WATER LEVEL
OCT 04	64.04	JAN 03	64.12	MAR 07	63.73	JUN 16	63.39	AUG 26	63.91
NOV 22	64.22	FEB 18	64.12	MAY 04	63.75	JUL 19	63.78	SEP 28	64.45



## ROCKINGHAM COUNTY—Continued

362323079421201. County number, RK-235; DENR Upper Piedmont Research Station MW-N4I (Transition Zone well).

LOCATION.--Lat 36°23'23", long 79°42'13", Hydrologic Unit 03010103, .6 mi north of Wentworth Street, .6 mi west of Secondary Road 1993 on North Carolina State University Research Farm. 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 70 ft, diameter 4 in., cased to 44 ft, open hole from 44 to 70 ft.

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

DATUM.--Land-surface datum is 839.63 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. Feb. 2005 to Aug. 2005, measuring point floor of shelter, 2.85 ft above land-surface datum. Shelter removed Aug. 2005, measuring point returned to 2.80 ft above land-surface datum.

PERIOD OF RECORD.--June 2002 to current year. Continuous record February 2005 to August 2005.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 24.36 ft below land-surface datum, July 7, 2003; lowest water level measured, 37.54 ft below land-surface datum, Oct. 23, 2002.

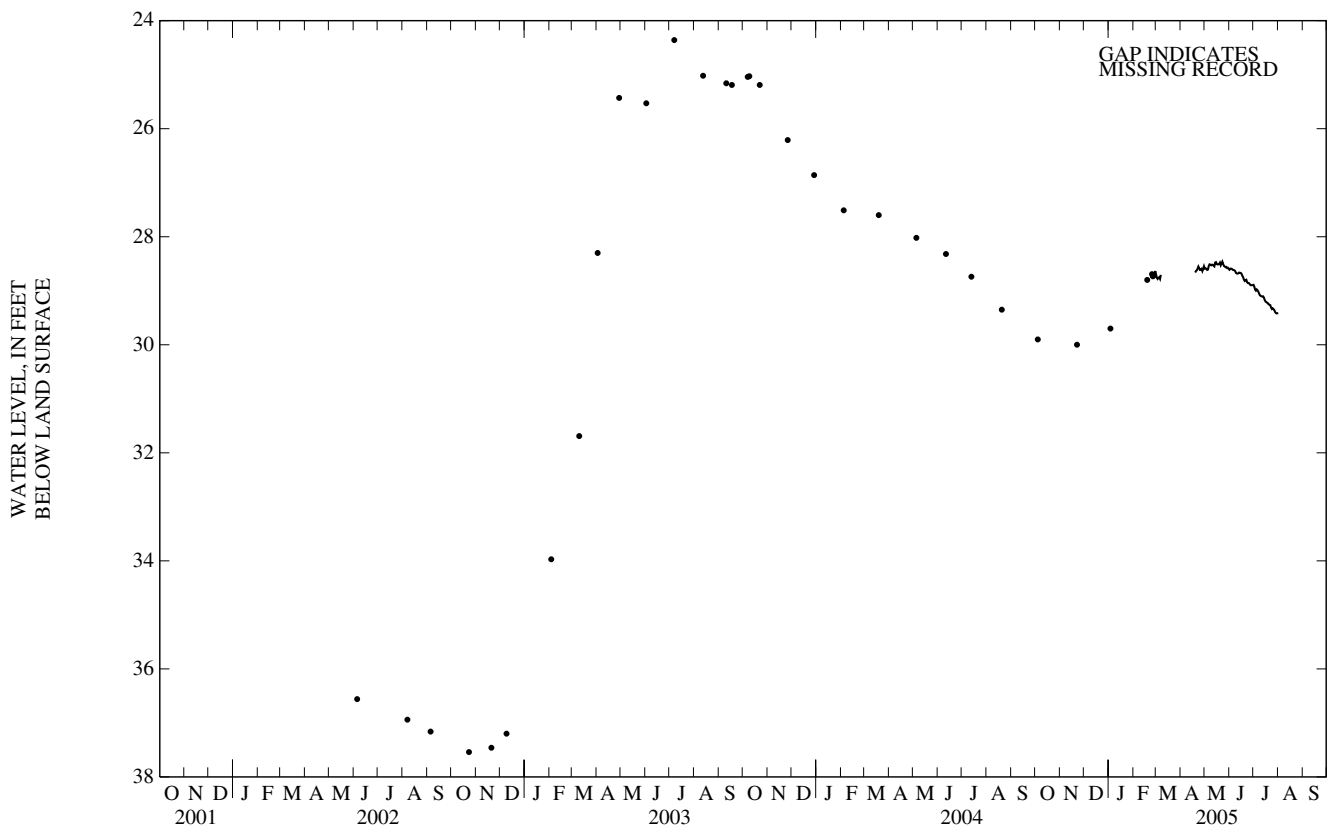
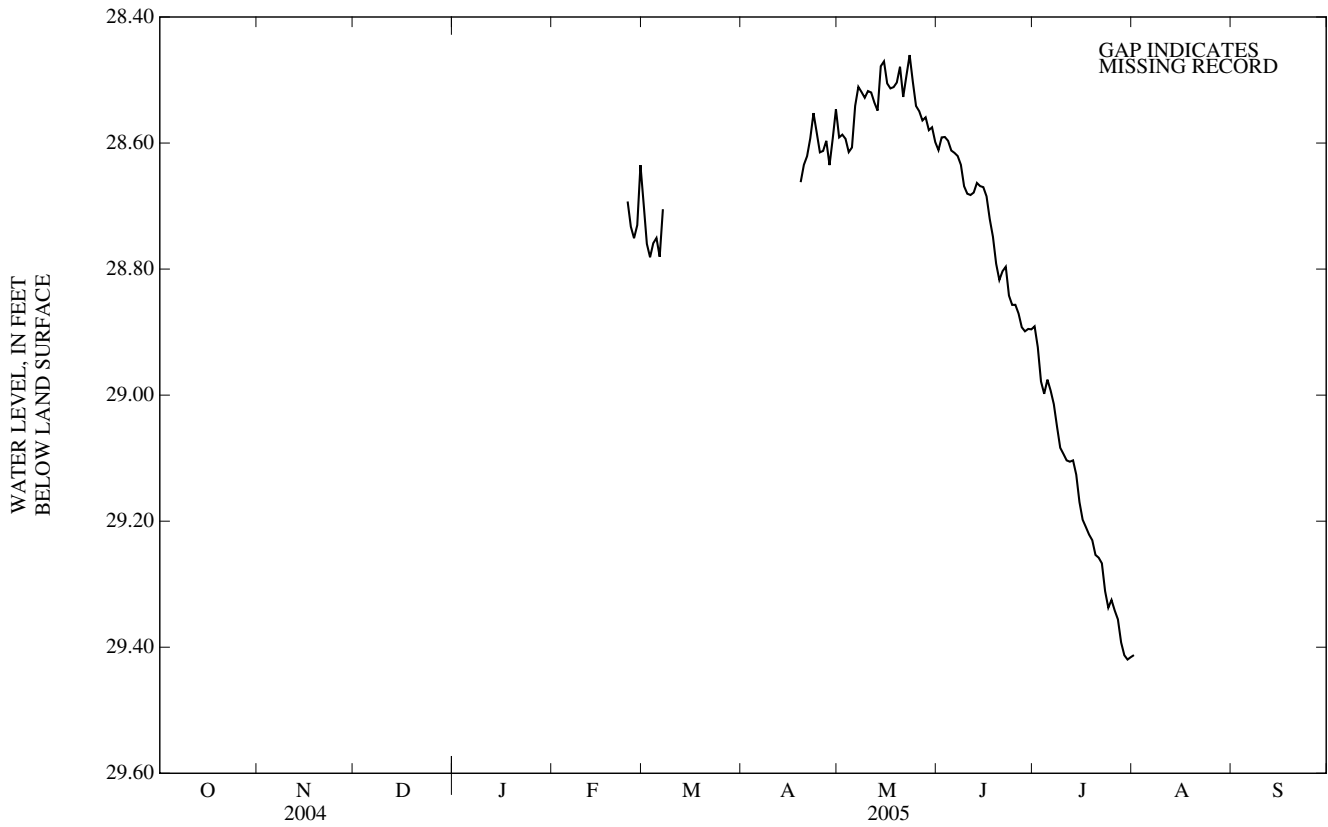
DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	28.70	---	28.59	28.61	28.89	29.41	---
2	---	---	---	---	---	28.76	---	28.59	28.59	28.92	---	---
3	---	---	---	---	---	28.78	---	28.59	28.59	28.98	---	---
4	---	---	---	---	---	28.76	---	28.61	28.60	29.00	---	---
5	---	---	---	---	---	28.75	---	28.61	28.61	28.98	---	---
6	---	---	---	---	---	28.78	---	28.54	28.62	28.99	---	---
7	---	---	---	---	---	28.70	---	28.51	28.62	29.01	---	---
8	---	---	---	---	---	---	---	28.52	28.63	29.05	---	---
9	---	---	---	---	---	---	---	28.53	28.67	29.08	---	---
10	---	---	---	---	---	---	---	28.52	28.68	29.09	---	---
11	---	---	---	---	---	---	---	28.52	28.68	29.10	---	---
12	---	---	---	---	---	---	---	28.54	28.68	29.11	---	---
13	---	---	---	---	---	---	---	28.55	28.66	29.10	---	---
14	---	---	---	---	---	---	---	28.48	28.67	29.13	---	---
15	---	---	---	---	---	---	---	28.47	28.67	29.17	---	---
16	---	---	---	---	---	---	---	28.51	28.68	29.20	---	---
17	---	---	---	---	---	---	---	28.51	28.72	29.21	---	---
18	---	---	---	---	---	---	---	28.51	28.75	29.22	---	---
19	---	---	---	---	---	---	28.66	28.50	28.79	29.23	---	---
20	---	---	---	---	---	---	28.63	28.48	28.82	29.25	---	---
21	---	---	---	---	---	---	28.62	28.53	28.80	29.26	---	---
22	---	---	---	---	---	---	28.59	28.49	28.80	29.27	---	---
23	---	---	---	---	---	---	28.55	28.46	28.84	29.31	---	---
24	---	---	---	---	28.69	---	28.58	28.50	28.86	29.34	---	---
25	---	---	---	---	28.73	---	28.61	28.54	28.86	29.32	---	---
26	---	---	---	---	28.75	---	28.61	28.55	28.87	29.34	---	---
27	---	---	---	---	28.73	---	28.60	28.56	28.89	29.36	---	---
28	---	---	---	---	28.64	---	28.64	28.56	28.90	29.39	---	---
29	---	---	---	---	---	---	28.59	28.58	28.89	29.41	---	---
30	---	---	---	---	---	---	28.55	28.57	28.90	29.42	---	---
31	---	---	---	---	---	---	---	28.60	---	29.42	---	---

WTR YR 2005 MEAN 28.79 HIGH 28.46 LOW 29.42

GROUND-WATER LEVELS  
ROCKINGHAM COUNTY—Continued

362323079421201. County number, RK-235; DENR Upper Piedmont Research Station MW-N4I (Transition Zone well).



## ROCKINGHAM COUNTY—Continued

362323079421202. County number, RK-236; DENR Upper Piedmont Research Station MW-N4D (Bedrock well).

LOCATION.--Lat 36°23'23", long 79°42'13", Hydrologic Unit 03010103, .6 mi north of Wentworth Street, .6 mi west of Secondary Road 1993 on North Carolina State University Research Farm. 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 80 ft, open hole from 80 to 300 ft.

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

DATUM.--Land-surface datum is 840.19 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. During period of continuous record, Feb. 2005 to Aug. 2005, measuring point floor of shelter, 2.63 ft above land-surface datum. Shelter removed Aug. 2005 and measuring point returned to 2.58 ft above land-surface datum.

PERIOD OF RECORD.--June 2002 to current year. Continuous record February 2005 to August 2005.

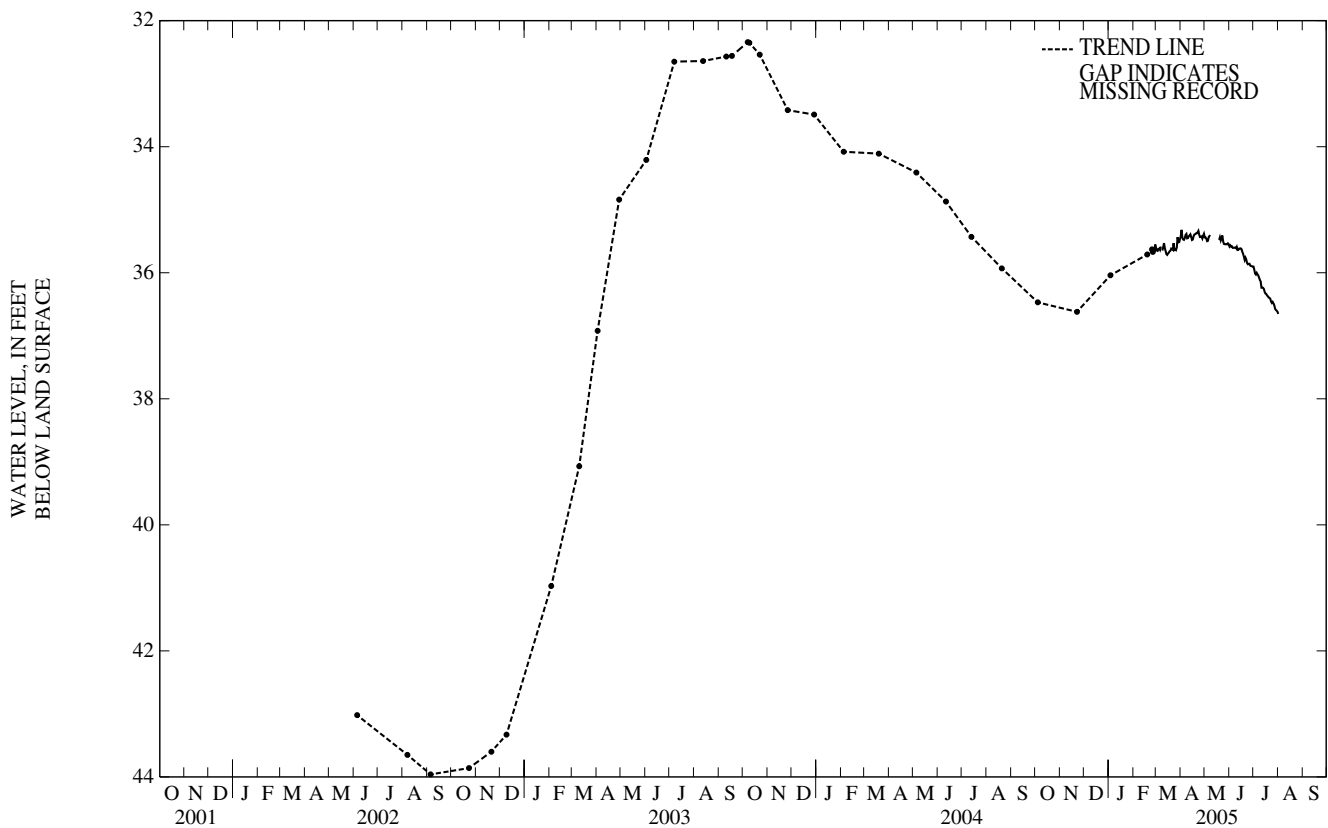
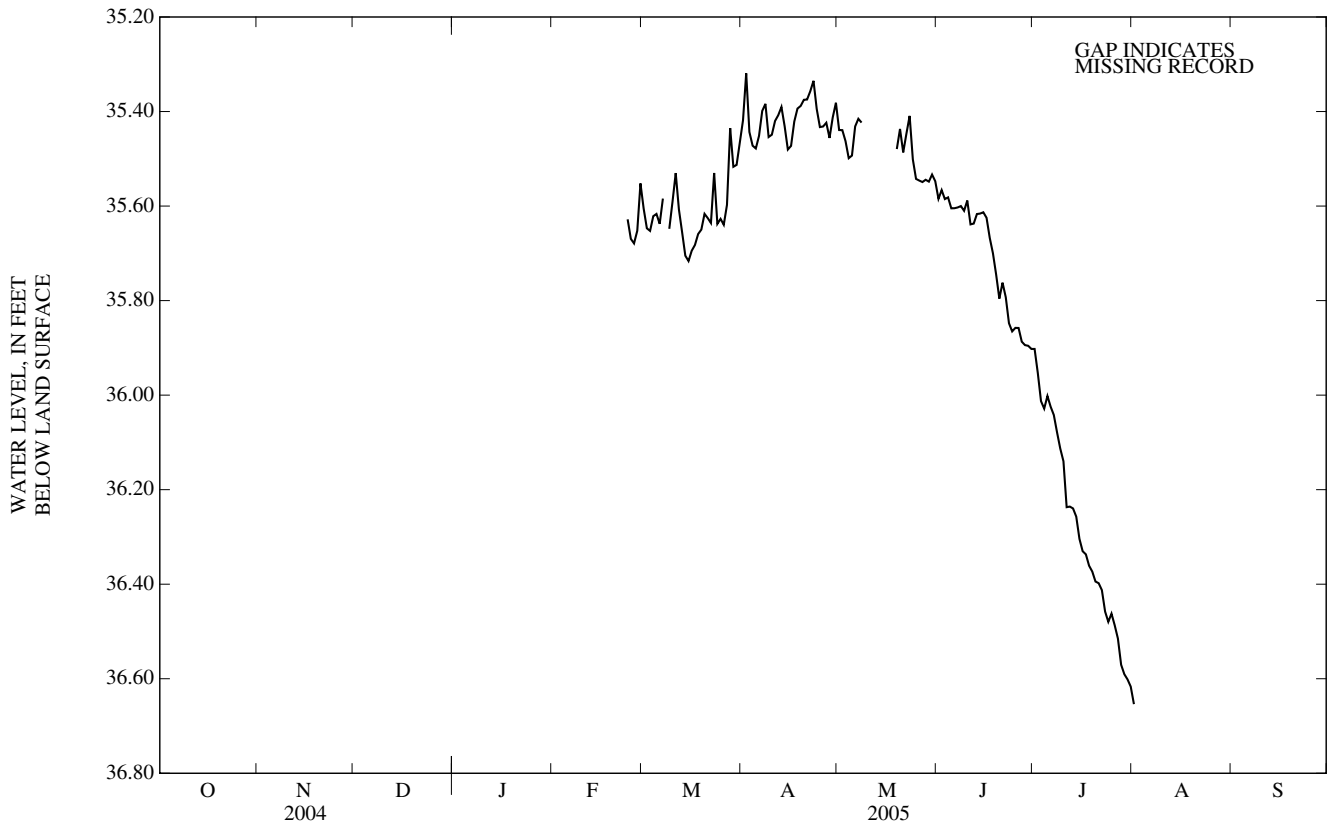
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.34 ft below land-surface datum, Oct. 7, 2003; lowest water level measured, 43.96 ft below land-surface datum, Sept. 5, 2002.

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	---	---	---	---	---	35.61	35.42	35.44	35.58	35.90	36.65	---
2	---	---	---	---	---	35.65	35.32	35.44	35.57	35.95	---	---
3	---	---	---	---	---	35.65	35.44	35.46	35.59	36.01	---	---
4	---	---	---	---	---	35.62	35.47	35.50	35.58	36.03	---	---
5	---	---	---	---	---	35.62	35.48	35.49	35.60	36.00	---	---
6	---	---	---	---	---	35.64	35.45	35.43	35.60	36.02	---	---
7	---	---	---	---	---	35.58	35.40	35.42	35.60	36.04	---	---
8	---	---	---	---	---	---	35.38	35.42	35.60	36.08	---	---
9	---	---	---	---	---	35.65	35.45	---	35.61	36.11	---	---
10	---	---	---	---	---	35.59	35.45	---	35.59	36.14	---	---
11	---	---	---	---	---	35.53	35.42	---	35.64	36.24	---	---
12	---	---	---	---	---	35.61	35.41	---	35.64	36.24	---	---
13	---	---	---	---	---	35.66	35.39	---	35.62	36.24	---	---
14	---	---	---	---	---	35.70	35.43	---	35.62	36.26	---	---
15	---	---	---	---	---	35.72	35.48	---	35.61	36.30	---	---
16	---	---	---	---	---	35.69	35.47	---	35.62	36.33	---	---
17	---	---	---	---	---	35.68	35.42	---	35.67	36.34	---	---
18	---	---	---	---	---	35.66	35.39	---	35.70	36.36	---	---
19	---	---	---	---	---	35.65	35.39	35.48	35.74	36.37	---	---
20	---	---	---	---	---	35.62	35.38	35.44	35.80	36.39	---	---
21	---	---	---	---	---	35.63	35.37	35.49	35.76	36.40	---	---
22	---	---	---	---	---	35.64	35.36	35.45	35.79	36.41	---	---
23	---	---	---	---	---	35.53	35.34	35.41	35.85	36.46	---	---
24	---	---	---	---	35.63	35.64	35.39	35.50	35.87	36.48	---	---
25	---	---	---	---	35.67	35.63	35.43	35.54	35.86	36.46	---	---
26	---	---	---	---	35.68	35.64	35.43	35.55	35.86	36.49	---	---
27	---	---	---	---	35.65	35.60	35.42	35.55	35.89	36.52	---	---
28	---	---	---	---	35.55	35.44	35.46	35.54	35.89	36.57	---	---
29	---	---	---	---	---	35.52	35.41	35.55	35.90	36.59	---	---
30	---	---	---	---	---	35.51	35.38	35.53	35.90	36.60	---	---
31	---	---	---	---	---	35.47	---	35.55	---	36.62	---	---
WTR YR	2005	MEAN	35.72	HIGH	35.32	LOW	36.65					

GROUND-WATER LEVELS  
ROCKINGHAM COUNTY—Continued

362323079421202. County number, RK-236; DENR Upper Piedmont Research Station MW-N4D (Bedrock well).



ROCKINGHAM COUNTY—Continued

362240079411801. County number, RK-237; DENR Upper Piedmont Research Station MW-S1I (Transition Zone well).

LOCATION.--Lat 36°22'41", long 79°41'19", Hydrologic Unit 03010103, .6 mi north of Wentworth Street, .6 mi west of Secondary Road 1993 on North Carolina State University Research Farm. 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 30 to 50 ft.

INSTRUMENTATION.--Measured periodically with electric tape by DENR.

DATUM.--Land-surface datum is 803.34 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.50 ft above land-surface datum.

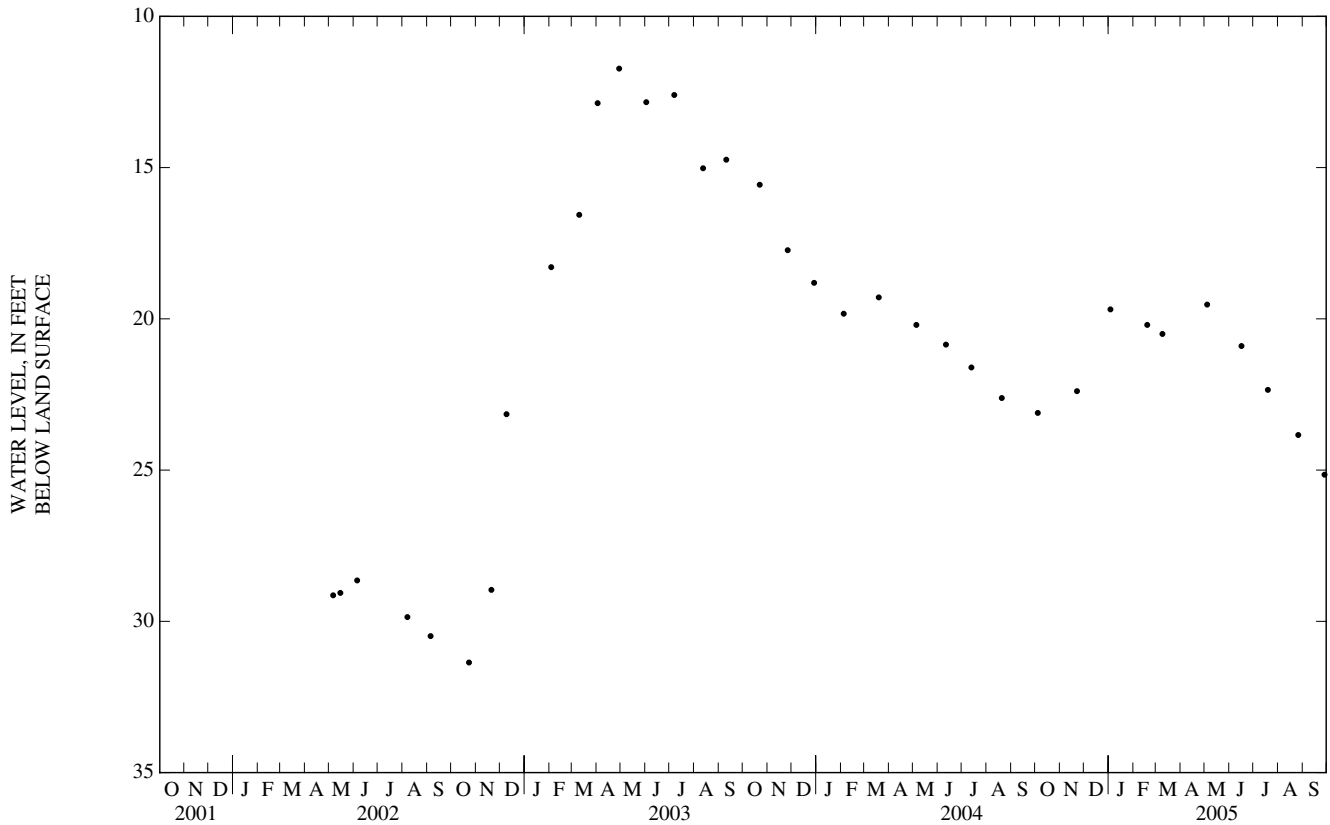
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--May 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.73 ft below land-surface datum, April 29, 2003; lowest water level measured, 31.36 ft below land-surface datum, Oct. 23, 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	DATE	WATER LEVEL
OCT 04	23.11	JAN 03	19.69	MAR 09	20.50	JUN 16	20.90	AUG 26	23.84
NOV 22	22.39	FEB 18	20.20	MAY 04	19.53	JUL 19	22.35	SEP 28	25.15





GROUND-WATER LEVELS  
ROCKINGHAM COUNTY—Continued

362240079411802. County number, RK-238; DENR Upper Piedmont Research Station MW-S1D (Bedrock well).

LOCATION.--Lat 36°22'41", long 79°41'19", Hydrologic Unit 03010103, .2 mi north of Wentworth Street, 1.5 mi west of State Highway 14 on North Carolina State University Research Farm. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Biotite Gneiss.

WELL CHARACTERISTICS.--Drilled observation well, depth 302 ft, diameter 6 in., cased to 62 ft, open hole from 62 to 302 ft.

INSTRUMENTATION.--Measured periodically with electric tape by DENR.

DATUM.--Land-surface datum is 802.55 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.80 ft above land-surface datum.

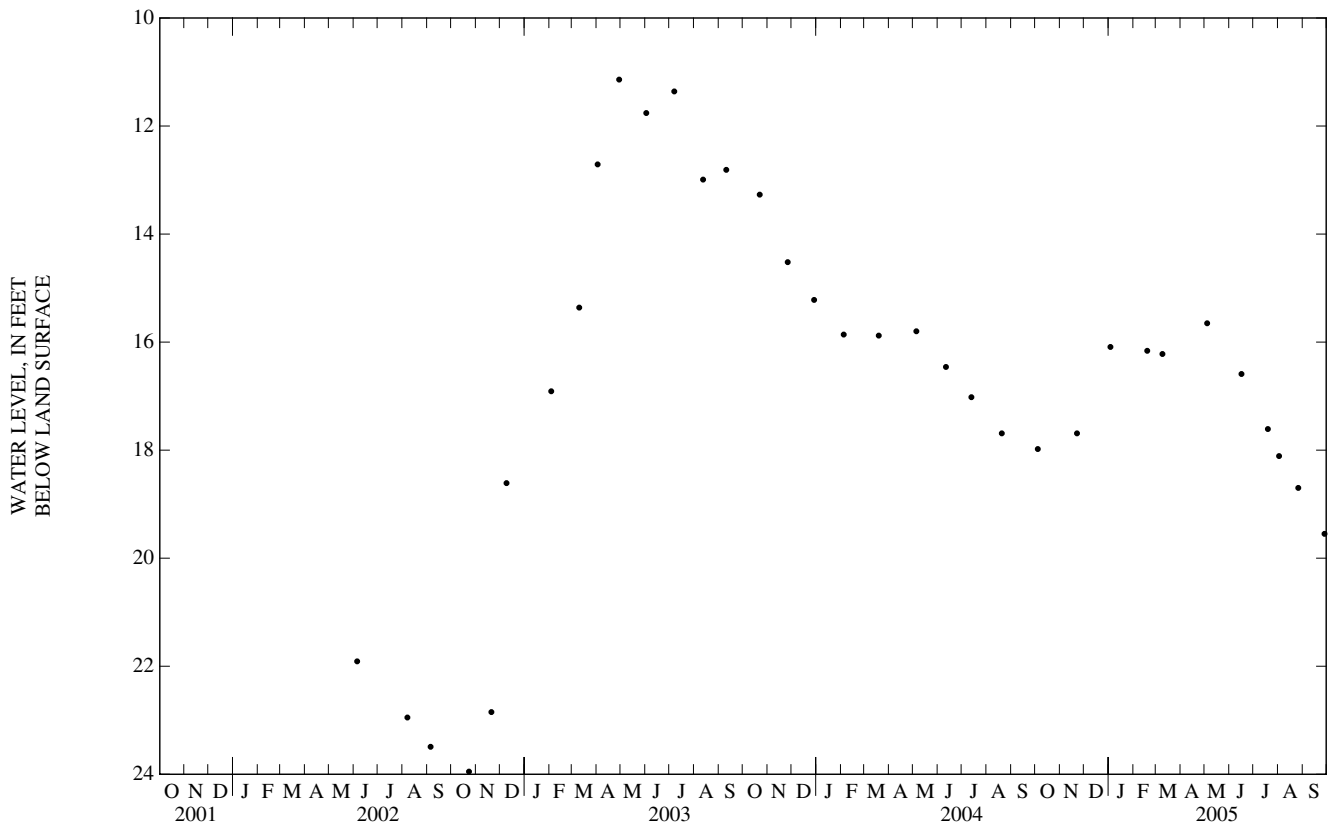
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--June 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.14 ft below land-surface datum, April 29, 2003; lowest water level measured, 23.95 ft below land-surface datum, Oct. 23, 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	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 04	17.98	JAN 03	16.09	MAR 09	16.22	JUN 16	16.59	AUG 02	18.11	SEP 28	19.55
NOV 22	17.69	FEB 18	16.16	MAY 04	15.65	JUL 19	17.61		26		18.70



ROCKINGHAM COUNTY—Continued

362231079410801. County number, RK-239; DENR Upper Piedmont Research Station MW-S3S (Regolith well).

LOCATION.--Lat 36°22'31", long 79°41'08", Hydrologic Unit 03010103, .6 mi north of Wentworth Street, .6 mi west of Secondary Road 1993 on North Carolina State University Research Farm. 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 38 ft, diameter 4 in., cased to 23 ft, screened interval from 23 to 38 ft, sand filter packed from 21 to 38 ft.

INSTRUMENTATION.--Measured periodically with electric tape by DENR.

DATUM.--Land-surface datum is 705.16 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.99 ft above land-surface datum.

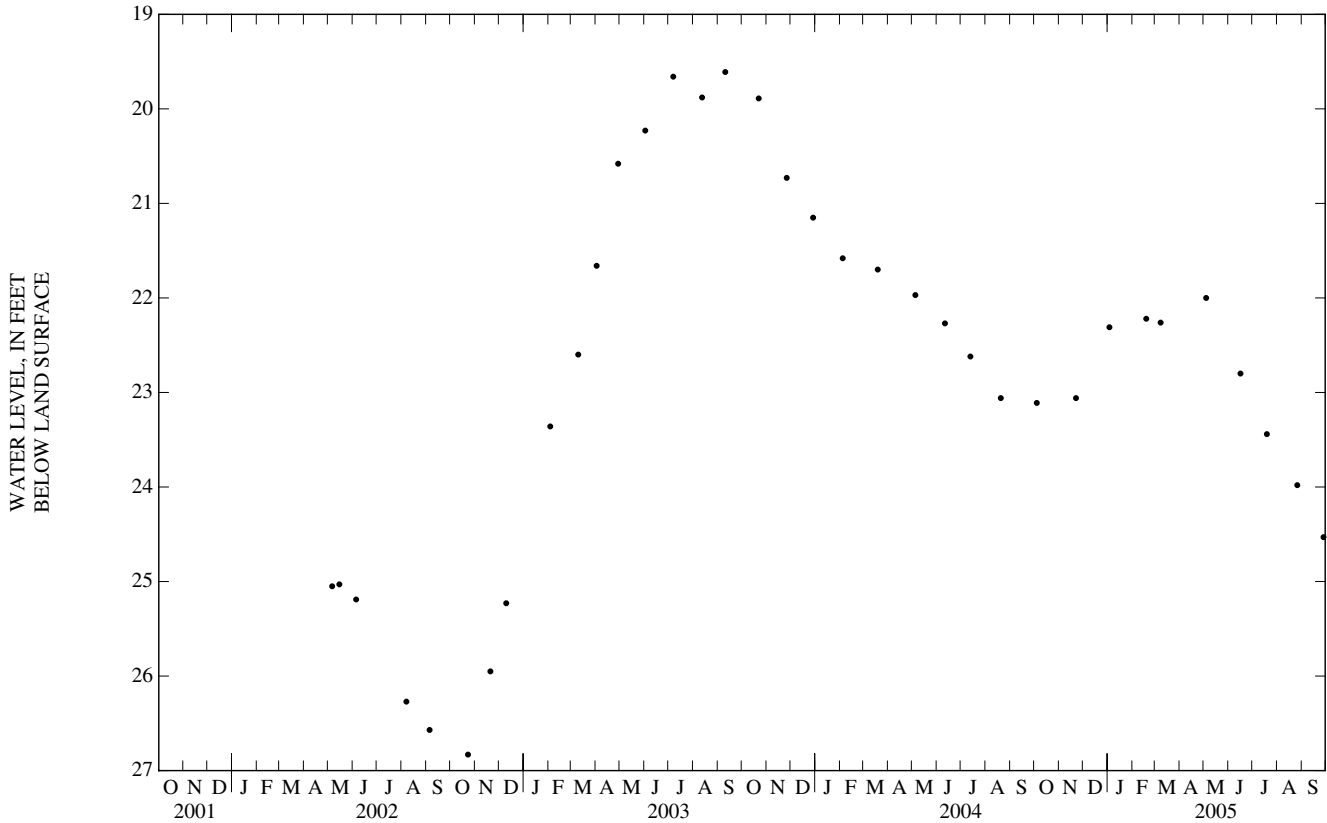
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--May 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.61 ft below land-surface datum, Sept. 10, 2003; lowest water level measured, 26.83 ft below land-surface datum, Oct. 23, 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	DATE	WATER LEVEL
OCT 04	23.11	JAN 03	22.31	MAR 08	22.26	JUN 16	22.80	AUG 26	23.98
NOV 22	23.06	FEB 18	22.22	MAY 04	22.00	JUL 19	23.44	SEP 28	24.53



GROUND-WATER LEVELS  
ROCKINGHAM COUNTY—Continued

362231079410802. County number, RK-240; DENR Upper Piedmont Research Station MW-S3UI (Transition Zone well).

LOCATION.--Lat 36°22'32", long 79°41'08", Hydrologic Unit 03010103, .6 mi north of Wentworth Street, .6 mi west of Secondary Road 1993 on North Carolina State University Research Farm. 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 55 ft, diameter 4 in., cased to 45 ft, screened interval from 45 to 55 ft, sand filter packed from 38 to 55 ft.

INSTRUMENTATION.--Measured periodically with electric tape by DENR.

DATUM.--Land-surface datum is 705.60 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.73 ft above land-surface datum.

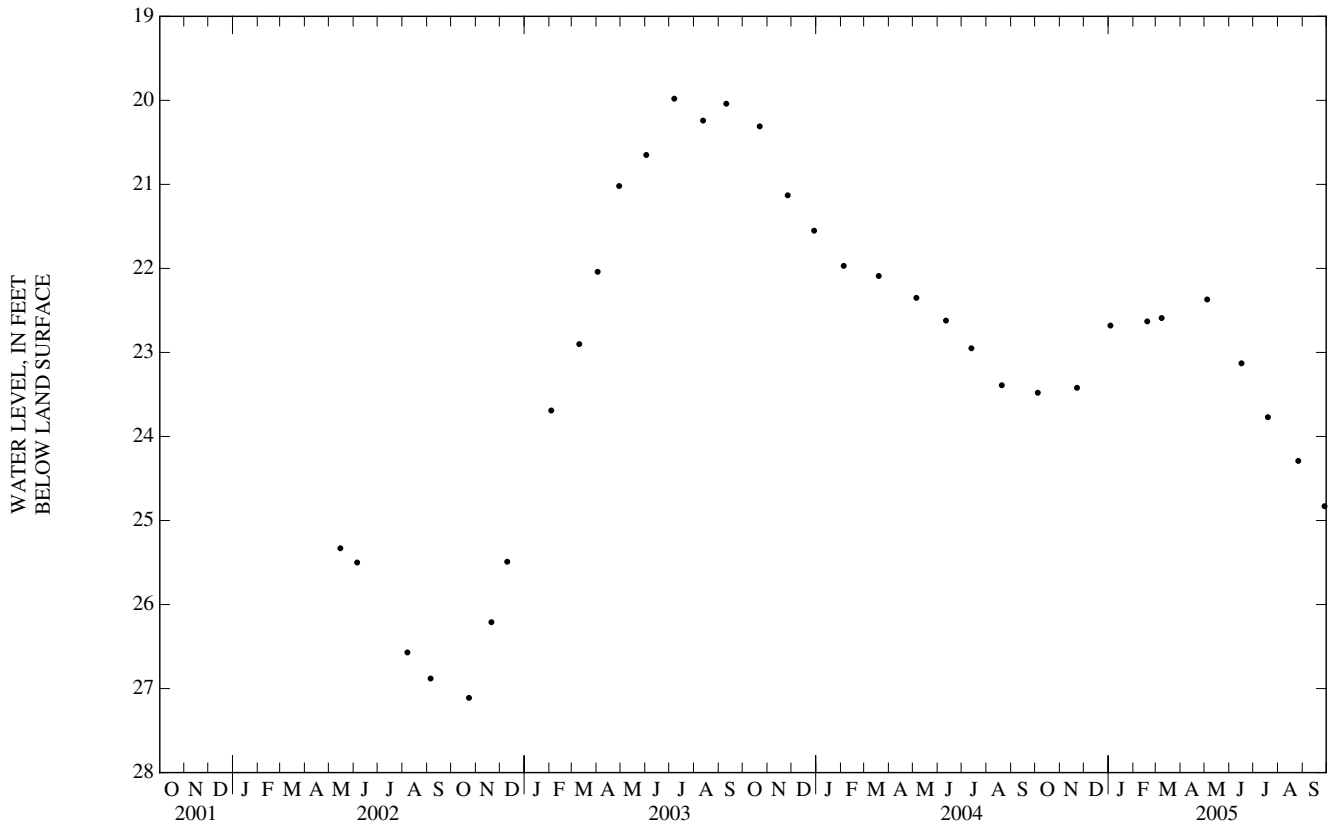
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--May 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.98 ft below land-surface datum, July 7, 2003; lowest water level measured, 27.11 ft below land-surface datum, Oct. 23, 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	DATE	WATER LEVEL
OCT 04	23.48	JAN 03	22.68	MAR 08	22.59	JUN 16	23.13	AUG 26	24.29
NOV 22	23.42	FEB 18	22.63	MAY 04	22.37	JUL 19	23.77	SEP 28	24.83



ROCKINGHAM COUNTY—Continued

362231079310803. County number, RK-241; DENR Upper Piedmont Research Station MW-S3LI (Transition Zone well).

LOCATION.--Lat 36°22'32", long 79°41'08", Hydrologic Unit 03010103, .6 mi north of Wentworth Street, .6 mi west of Secondary Road 1993 on North Carolina State University Research Farm. 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 73 ft, diameter 4 in., cased to 63 ft, screened interval from 63 to 73 ft, sand filter packed from 61 to 73 ft.

INSTRUMENTATION.--Measured periodically with electric tape by DENR.

DATUM.--Land-surface datum is 705.60 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.65 ft above land-surface datum.

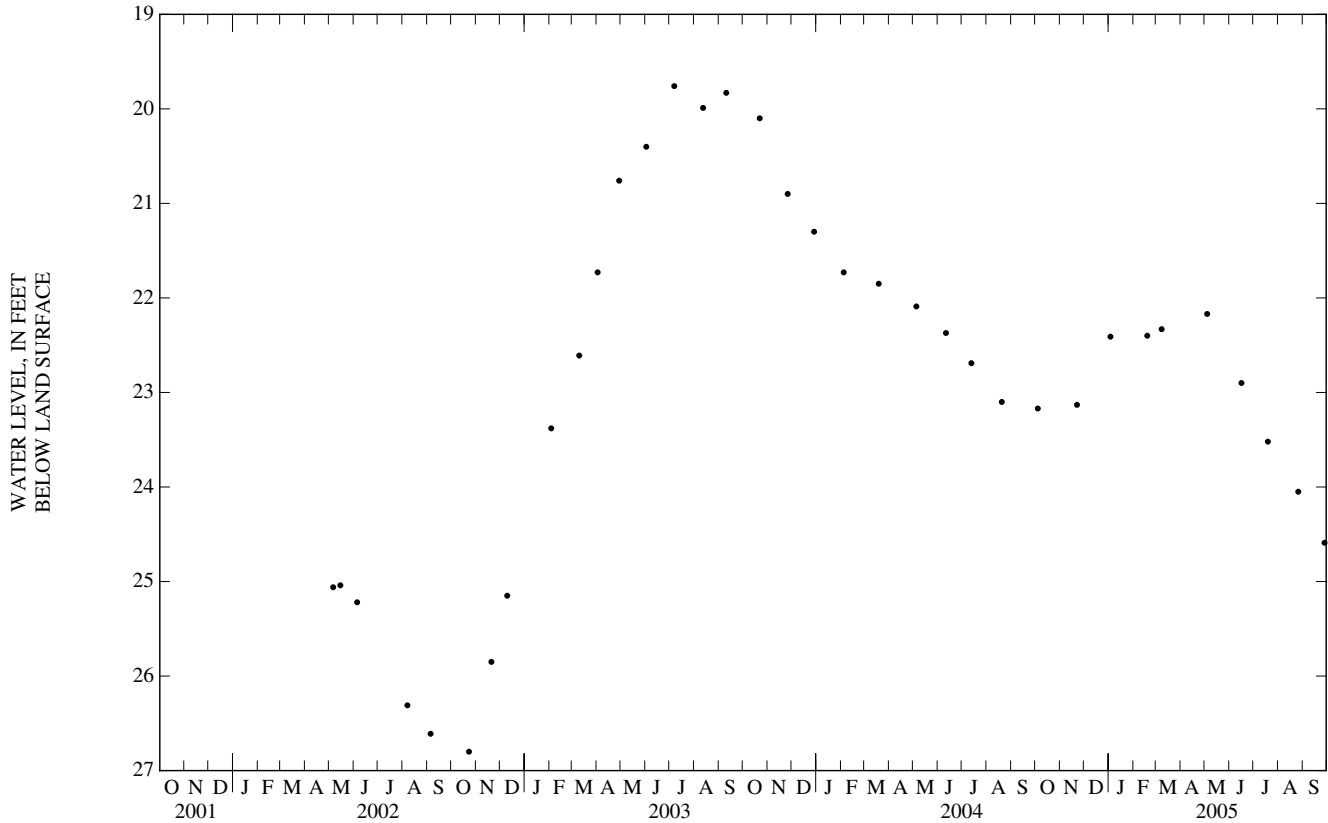
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--May 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.76 ft below land-surface datum, July 7, 2003; lowest water level measured, 26.80 ft below land-surface datum, Oct. 23, 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	DATE	WATER LEVEL
OCT 04	23.17	JAN 03	22.41	MAR 08	22.33	JUN 16	22.90	AUG 26	24.05
NOV 22	23.13	FEB 18	22.40	MAY 04	22.17	JUL 19	23.52	SEP 28	24.59



GROUND-WATER LEVELS  
ROCKINGHAM COUNTY—Continued

362231079310804. County number, RK-242; DENR Upper Piedmont Research Station MW-S3D (Bedrock well).

LOCATION.--Lat 36°22'32", long 79°41'08", Hydrologic Unit 03010103, .6 mi north of Wentworth Street, .6 mi west of Secondary Road 1993 on North Carolina State University Research Farm. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Biotite Gneiss.

WELL CHARACTERISTICS.--Drilled observation well, depth 438 ft, diameter 6 in., cased to 88 ft, open hole from 88 to 438 ft.

INSTRUMENTATION.--Measured periodically with electric tape by DENR.

DATUM.--Land-surface datum is 705.48 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.94 ft above land-surface datum.

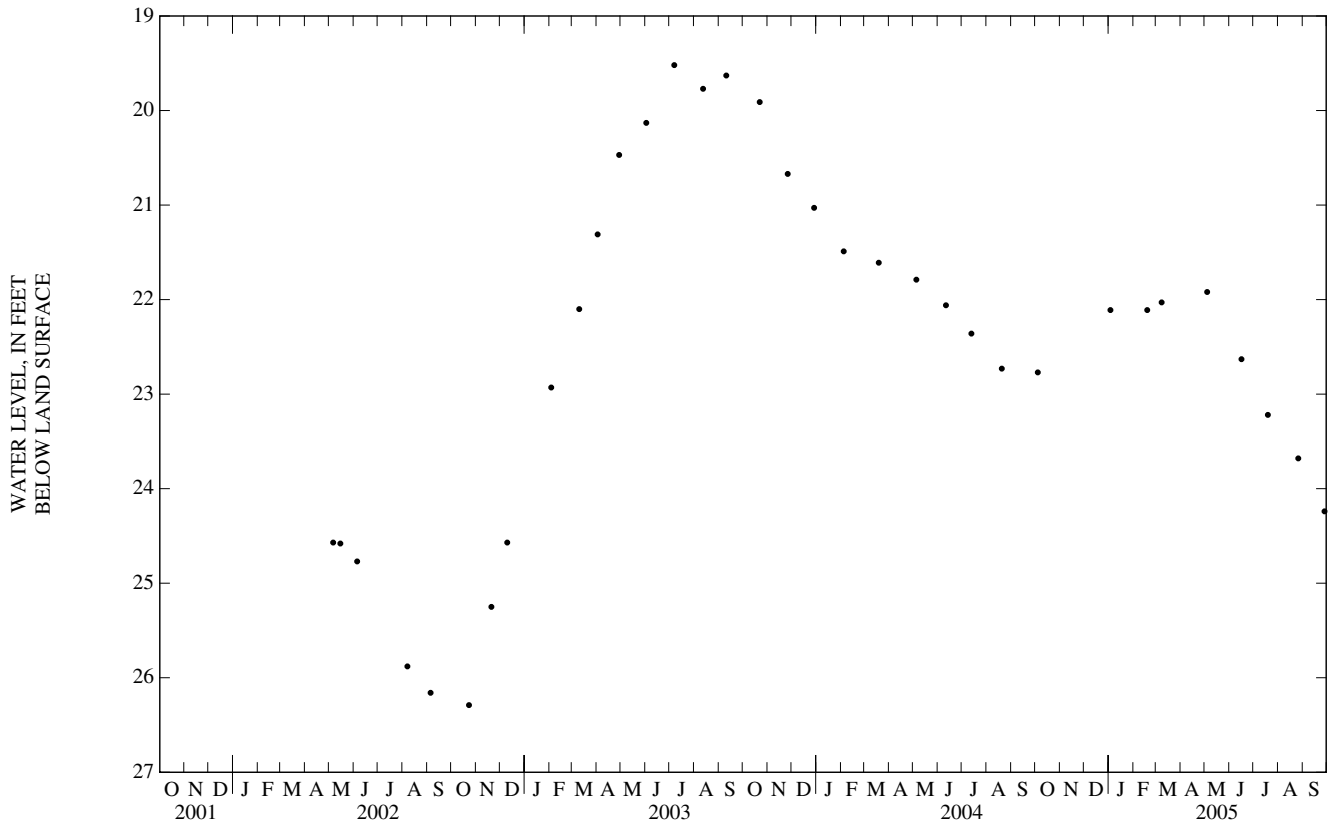
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--May 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.52 ft below land-surface datum, July 7, 2003; lowest water level measured, 26.29 ft below land-surface datum, Oct. 23, 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	DATE	WATER LEVEL
OCT 04	22.77	FEB 18	22.11	MAY 04	21.92	JUL 19	23.22	SEP 28	24.24
JAN 03	22.11	MAR 08	22.03	JUN 16	22.63	AUG 26	23.68		



## ROCKINGHAM COUNTY—Continued

362226079410101. County number, RK-243; DENR Upper Piedmont Research Station MW-S4S (Regolith well).

LOCATION.--Lat 36°22'26", long 79°41'01", Hydrologic Unit 03010103, .6 mi north of Wentworth Street, .6 mi west of Secondary Road 1993 on North Carolina State University Research Farm. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Regolith (saprolitic Felsic Gneiss).

WELL CHARACTERISTICS.--Drilled observation well, depth 15 ft, diameter 4 in., cased to 5 ft, screened interval from 5 to 15 ft, sand filter packed from 4 to 15 ft.

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

DATUM.--Land-surface datum is 659.50 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 1.99 ft above land-surface datum.

REMARKS.--Well is part of Piedmont/Mountains ground-water study. Well is located in close proximity of stream.

PERIOD OF RECORD.--May 2002 to current year. Continuous record May 2003 to October 2004.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 0.13 ft below land-surface datum, May 26, 2003; lowest water level measured 5.47 ft below land-surface datum, Aug. 7, 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	DATE	WATER LEVEL
OCT 04	4.78	JAN 03	4.76	MAR 09	4.61	JUN 16	5.03	AUG 26	5.29
NOV 22	4.76	FEB 18	4.72	MAY 04	4.87	JUL 19	5.16	SEP 28	5.38

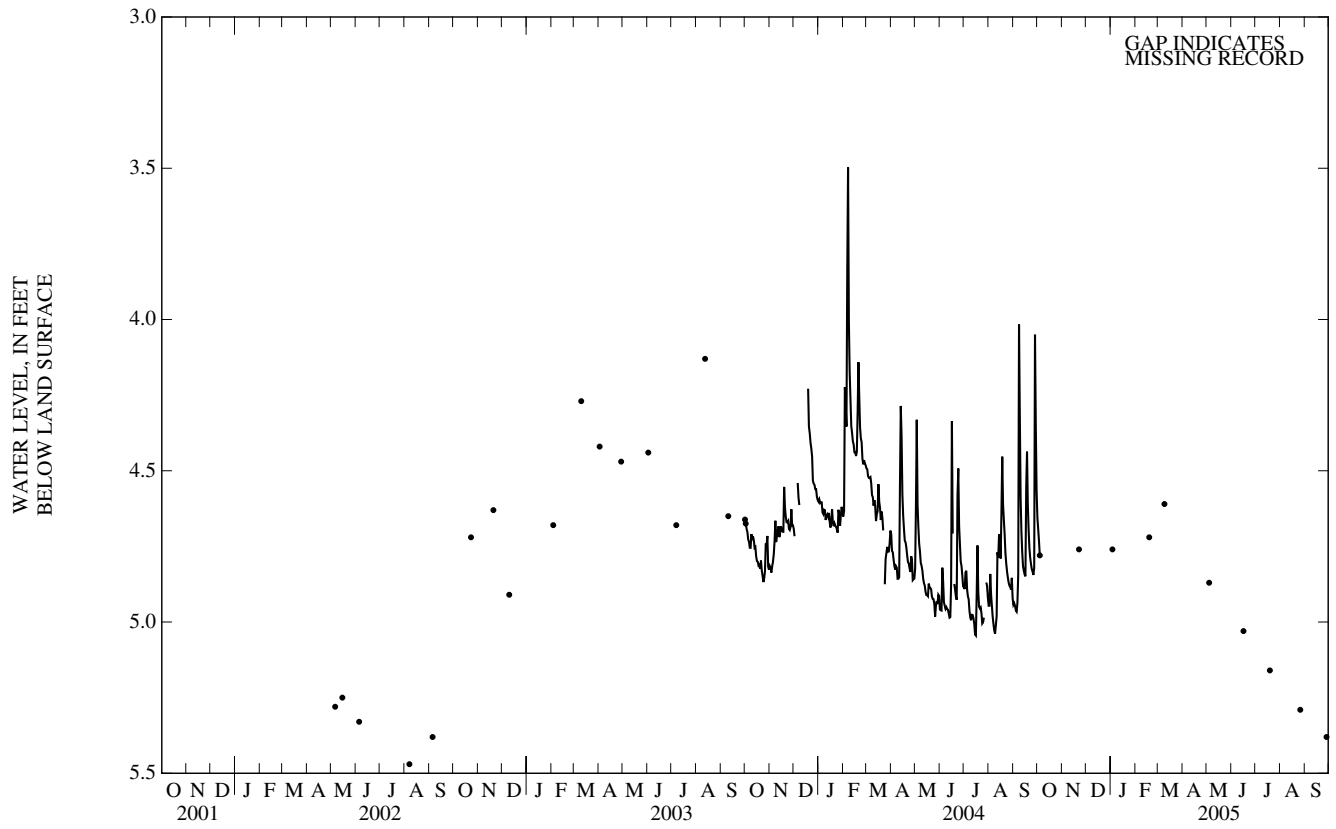
DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.66	---	---	---	---	---	---	---	---	---	---	---
2	4.69	---	---	---	---	---	---	---	---	---	---	---
3	4.73	---	---	---	---	---	---	---	---	---	---	---
4	4.75	---	---	---	---	---	---	---	---	---	---	---
5	4.77	---	---	---	---	---	---	---	---	---	---	---
6	4.80	---	---	---	---	---	---	---	---	---	---	---
7	4.81	---	---	---	---	---	---	---	---	---	---	---
8	4.81	---	---	---	---	---	---	---	---	---	---	---
9	4.82	---	---	---	---	---	---	---	---	---	---	---
10	4.83	---	---	---	---	---	---	---	---	---	---	---
11	4.85	---	---	---	---	---	---	---	---	---	---	---
12	4.85	---	---	---	---	---	---	---	---	---	---	---
13	4.83	---	---	---	---	---	---	---	---	---	---	---
14	4.83	---	---	---	---	---	---	---	---	---	---	---
15	4.87	---	---	---	---	---	---	---	---	---	---	---
16	4.89	---	---	---	---	---	---	---	---	---	---	---
17	4.90	---	---	---	---	---	---	---	---	---	---	---
18	4.89	---	---	---	---	---	---	---	---	---	---	---
19	4.59	---	---	---	---	---	---	---	---	---	---	---
20	4.54	---	---	---	---	---	---	---	---	---	---	---
21	4.66	---	---	---	---	---	---	---	---	---	---	---
22	4.72	---	---	---	---	---	---	---	---	---	---	---
23	4.75	---	---	---	---	---	---	---	---	---	---	---
24	4.77	---	---	---	---	---	---	---	---	---	---	---
25	4.80	---	---	---	---	---	---	---	---	---	---	---
26	4.83	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

WTR YR 2005 MEAN 4.78 HIGH 4.54 LOW 4.90

GROUND-WATER LEVELS  
ROCKINGHAM COUNTY—Continued

362226079410101. County number, RK-243; DENR Upper Piedmont Research Station MW-S4S (Regolith well)



## ROCKINGHAM COUNTY—Continued

362226079410102. County number, RK-244; DENR Upper Piedmont Research Station MW-S4I (Transition Zone well).

LOCATION.--Lat 36°22'26", long 79°41'01", Hydrologic Unit 03010103, .6 mi north of Wentworth Street, .6 mi west of Secondary Road 1993 on North Carolina State University Research Farm. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Regolith (saprolitic Felsic Gneiss).

WELL CHARACTERISTICS.--Drilled observation well, depth 35 ft, diameter 4 in., cased to 25 ft, open hole from 25 to 35 ft.

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

DATUM.--Land-surface datum is 659.32 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.85 ft above land-surface datum.

REMARKS.--Well is part of Piedmont/Mountains ground-water study. Well is located in close proximity to stream.

PERIOD OF RECORD.--May 2002 to current year. Continuous record May 2003 to October 2004.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 1.11 ft below land-surface datum, May 26, 2003; lowest water level measured, 5.28 ft below land-surface datum, Aug. 7, 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	DATE	WATER LEVEL
OCT 04	4.34	JAN 03	4.35	MAR 09	4.15	JUN 16	4.78	AUG 26	5.06
NOV 22	4.42	FEB 18	4.34	MAY 04	4.52	JUL 19	4.90	SEP 28	5.20

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

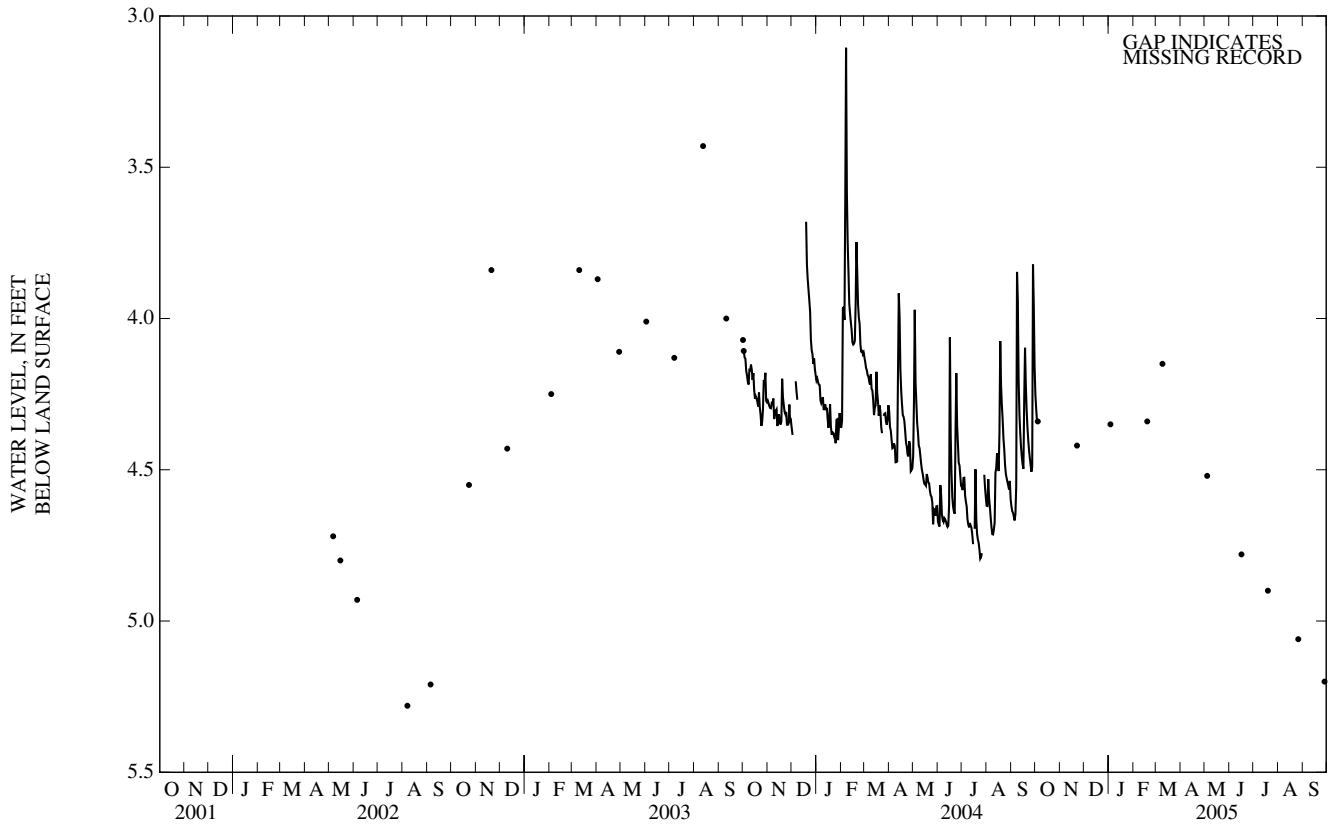
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.25	---	---	---	---	---	---	---	---	---	---	---
2	4.30	---	---	---	---	---	---	---	---	---	---	---
3	4.34	---	---	---	---	---	---	---	---	---	---	---
4	4.37	---	---	---	---	---	---	---	---	---	---	---
5	4.41	---	---	---	---	---	---	---	---	---	---	---
6	4.44	---	---	---	---	---	---	---	---	---	---	---
7	4.46	---	---	---	---	---	---	---	---	---	---	---
8	4.46	---	---	---	---	---	---	---	---	---	---	---
9	4.48	---	---	---	---	---	---	---	---	---	---	---
10	4.49	---	---	---	---	---	---	---	---	---	---	---
11	4.52	---	---	---	---	---	---	---	---	---	---	---
12	4.51	---	---	---	---	---	---	---	---	---	---	---
13	4.50	---	---	---	---	---	---	---	---	---	---	---
14	4.50	---	---	---	---	---	---	---	---	---	---	---
15	4.55	---	---	---	---	---	---	---	---	---	---	---
16	4.58	---	---	---	---	---	---	---	---	---	---	---
17	4.61	---	---	---	---	---	---	---	---	---	---	---
18	4.60	---	---	---	---	---	---	---	---	---	---	---
19	4.37	---	---	---	---	---	---	---	---	---	---	---
20	4.22	---	---	---	---	---	---	---	---	---	---	---
21	4.34	---	---	---	---	---	---	---	---	---	---	---
22	4.38	---	---	---	---	---	---	---	---	---	---	---
23	4.40	---	---	---	---	---	---	---	---	---	---	---
24	4.41	---	---	---	---	---	---	---	---	---	---	---
25	4.45	---	---	---	---	---	---	---	---	---	---	---
26	4.46	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

WTR YR 2005 MEAN 4.44 HIGH 4.22 LOW 4.61



GROUND-WATER LEVELS  
ROCKINGHAM COUNTY—Continued

362226079410102. County number, RK-244; DENR Upper Piedmont Research Station MW-S4I (Transition Zone well)



## ROCKINGHAM COUNTY—Continued

362226079410103. County number, RK-245; DENR Upper Piedmont Research Station MW-S4D (Bedrock well).

LOCATION.--Lat 36°22'26", long 79°41'01", Hydrologic Unit 03010103, .6 mi north of Wentworth Street, .6 mi west of Secondary Road 1993 on North Carolina State University Research Farm. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Felsic Gneiss.

WELL CHARACTERISTICS.--Drilled observation well, depth 380 ft, diameter 6 in., cased to 77 ft, open hole from 77 to 380 ft.

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

DATUM.--Land-surface datum is 659.57 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. Well is located in close proximity to stream.

PERIOD OF RECORD.--May 2002 to current year. Continuous record May 2003 to October 2004.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 1.40 ft below land-surface datum, May 26, 2003; lowest water level measured, 5.55 ft below land-surface datum, Aug. 7, 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	DATE	WATER LEVEL
OCT 04	4.50	JAN 03	4.46	MAR 09	4.24	JUN 16	4.93	AUG 26	5.27
NOV 22	4.55	FEB 18	4.53	MAY 04	4.64	JUL 19	5.10	SEP 28	5.44

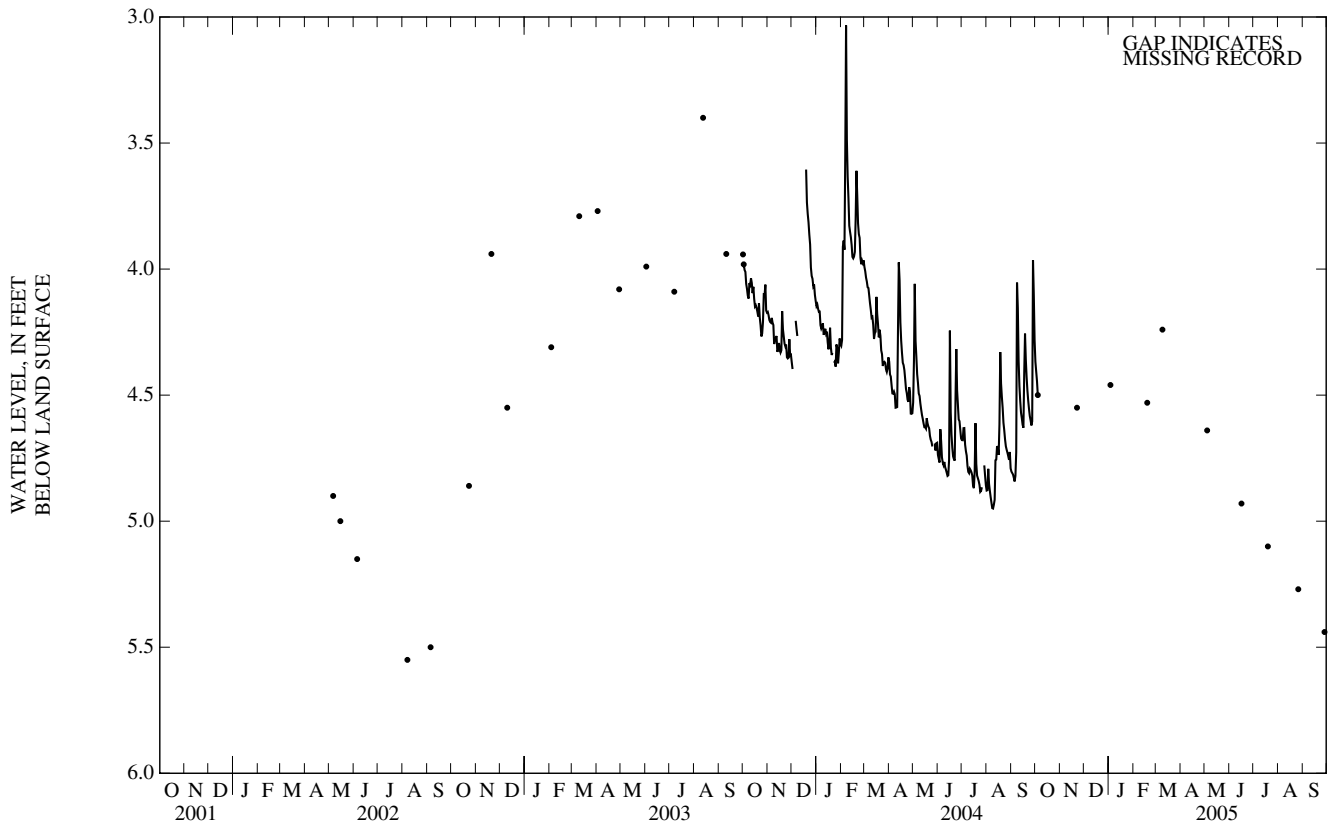
DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.37	---	---	---	---	---	---	---	---	---	---	---
2	4.41	---	---	---	---	---	---	---	---	---	---	---
3	4.44	---	---	---	---	---	---	---	---	---	---	---
4	4.48	---	---	---	---	---	---	---	---	---	---	---
5	4.52	---	---	---	---	---	---	---	---	---	---	---
6	4.55	---	---	---	---	---	---	---	---	---	---	---
7	4.57	---	---	---	---	---	---	---	---	---	---	---
8	4.58	---	---	---	---	---	---	---	---	---	---	---
9	4.59	---	---	---	---	---	---	---	---	---	---	---
10	4.61	---	---	---	---	---	---	---	---	---	---	---
11	4.63	---	---	---	---	---	---	---	---	---	---	---
12	4.62	---	---	---	---	---	---	---	---	---	---	---
13	4.61	---	---	---	---	---	---	---	---	---	---	---
14	4.61	---	---	---	---	---	---	---	---	---	---	---
15	4.66	---	---	---	---	---	---	---	---	---	---	---
16	4.70	---	---	---	---	---	---	---	---	---	---	---
17	4.72	---	---	---	---	---	---	---	---	---	---	---
18	4.72	---	---	---	---	---	---	---	---	---	---	---
19	4.50	---	---	---	---	---	---	---	---	---	---	---
20	4.36	---	---	---	---	---	---	---	---	---	---	---
21	4.46	---	---	---	---	---	---	---	---	---	---	---
22	4.49	---	---	---	---	---	---	---	---	---	---	---
23	4.50	---	---	---	---	---	---	---	---	---	---	---
24	4.51	---	---	---	---	---	---	---	---	---	---	---
25	4.54	---	---	---	---	---	---	---	---	---	---	---
26	4.57	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

WTR YR 2005 MEAN 4.55 HIGH 4.36 LOW 4.72

GROUND-WATER LEVELS  
ROCKINGHAM COUNTY—Continued

362226079410103. County number, RK-245; DENR Upper Piedmont Research Station MW-S4D (Bedrock well)



ROCKINGHAM COUNTY—Continued

362335079421701. County number, RK-251; DENR Upper Piedmont Research Station PZ-1.

LOCATION.--Lat 36°23'35", long 79°42'17", Hydrologic Unit 03010103, .6 mi north of Wentworth St, .6 mi west of Secondary Road 1993 on North Carolina State University Research Farm. 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 2 in., cased to 40 ft, screened interval from 40 ft to 50 ft, sand filter packed from 38 ft to 50 ft.

INSTRUMENTATION.--Measured periodically with electric tape by DENR.

DATUM.--Land-surface datum is 675.95 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.33 ft above land-surface datum.

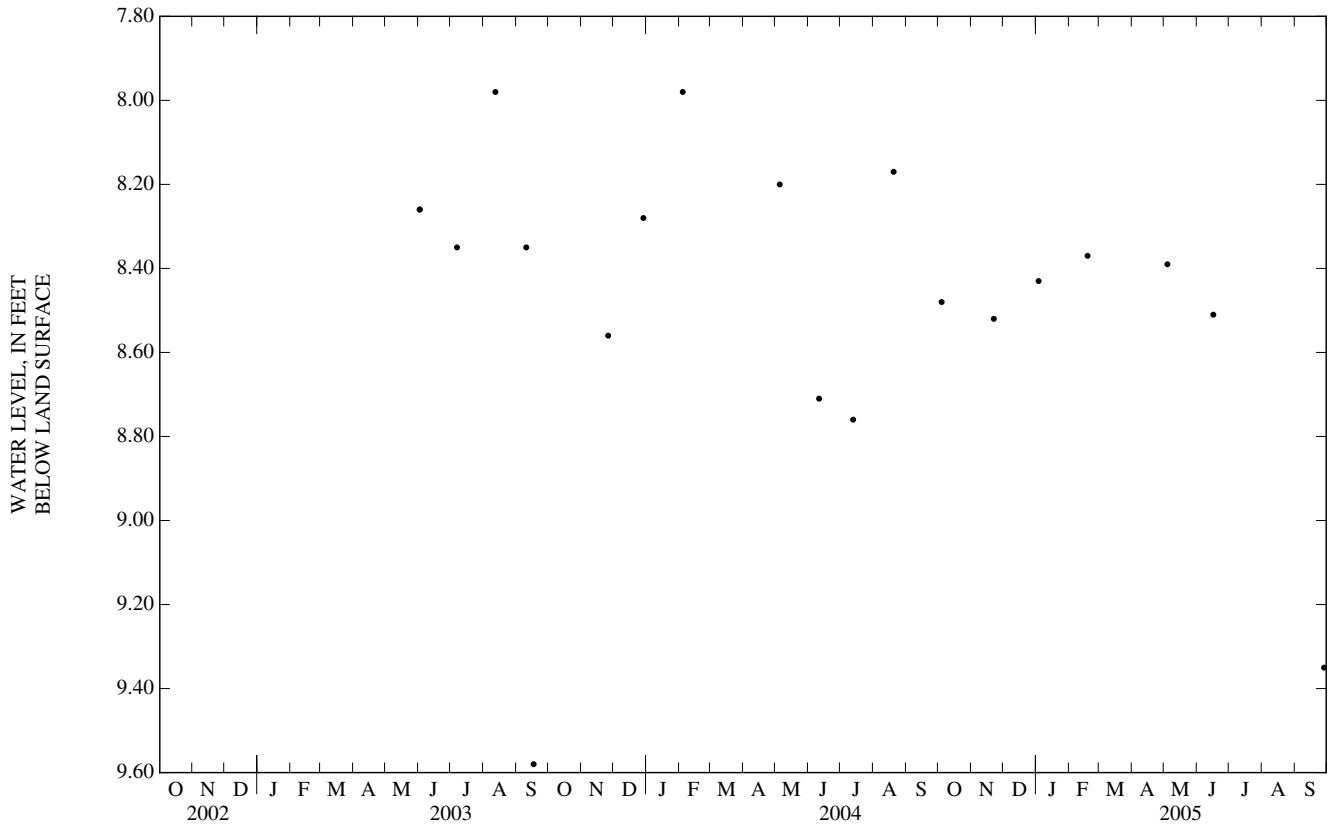
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.98 ft below land-surface datum, Aug. 12, 2003, Feb. 4, 2004; lowest water level measured 9.58 ft below land-surface datum, Sept. 12, 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
OCT 04	8.48	JAN 03	8.43	MAY 04	8.39	SEP 28	9.35
NOV 22	8.52	FEB 18	8.37	JUN 16	8.51		



GROUND-WATER LEVELS  
ROCKINGHAM COUNTY—Continued

362334079421701. County number, RK-252; DENR Upper Piedmont Research Station PZ-2.

LOCATION.--Lat 36°23'34", long 79°42'17", Hydrologic Unit 03010103, .6 mi north of Wentworth St, .6 mi west of Secondary Road 1993 on North Carolina State University Research Farm. 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 2 in., cased to 14 ft, screened interval from 14 to 24 ft, sand filter packed from 12 to 24 ft.

INSTRUMENTATION.--Measured periodically with electric tape by DENR.

DATUM.--Land-surface datum is 673.02 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.63 ft above land-surface datum.

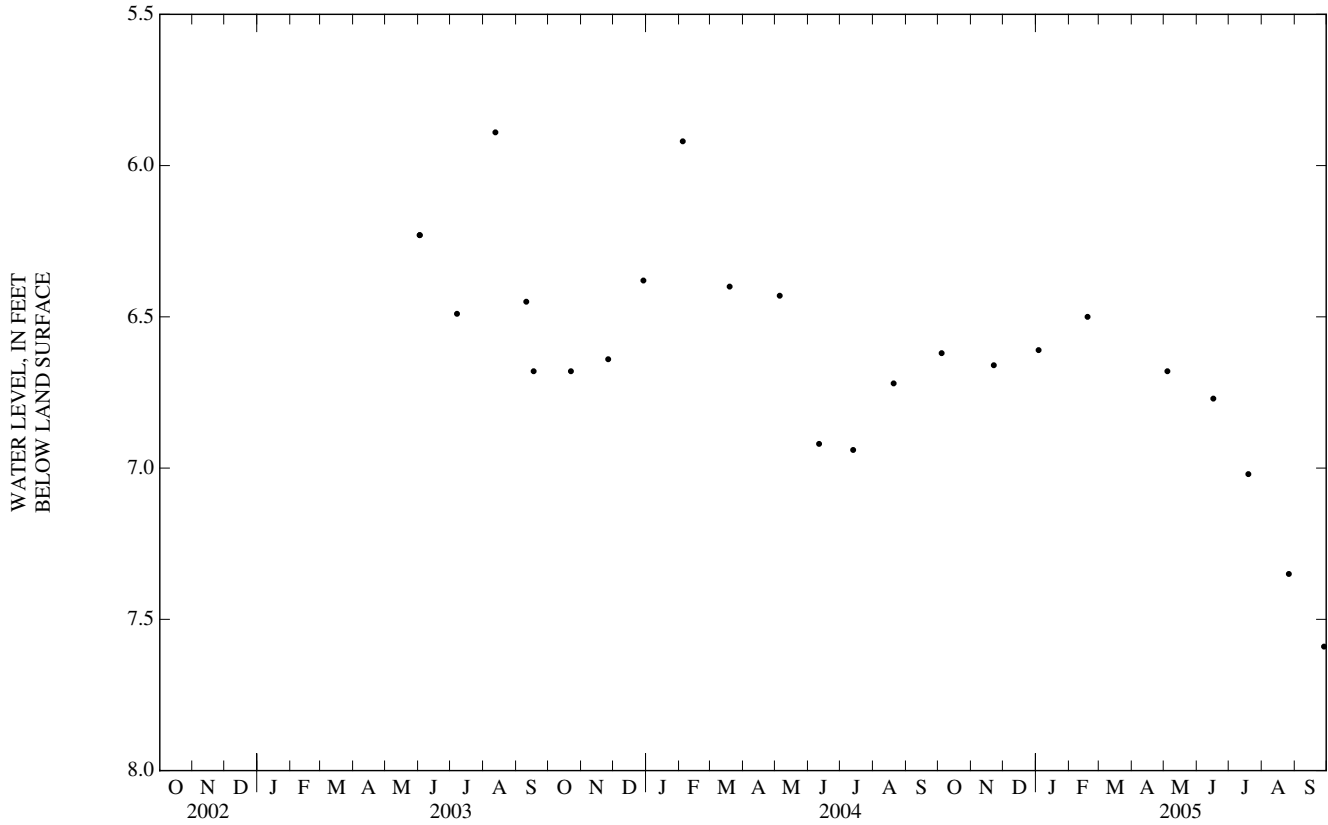
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.89 ft below land-surface datum, Aug. 12, 2003; lowest water level measured, 7.59 ft below land-surface datum, Sept. 28, 2005.

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	DATE	WATER LEVEL
OCT 04	6.62	JAN 03	6.61	MAY 04	6.68	JUL 19	7.02	SEP 28	7.59
NOV 22	6.66	FEB 18	6.50	JUN 16	6.77	AUG 26	7.35		



ROCKINGHAM COUNTY—Continued

362334079421703. County number, RK-253; DENR Upper Piedmont Research Station PZ-3.

LOCATION.--Lat 36°23'34", long 79°42'16", Hydrologic Unit 03010103, .6 mi north of Wentworth St, .6 mi west of Secondary Road 1993 on North Carolina State University Research Farm. 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 39 ft, diameter 2 in., cased to 29 ft, screened interval from 29 to 39 ft, sand filter packed from 27 to 39 ft.

INSTRUMENTATION.--Measured periodically with electric tape by DENR.

DATUM.--Land-surface datum is 672.17 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.33 ft above land-surface datum.

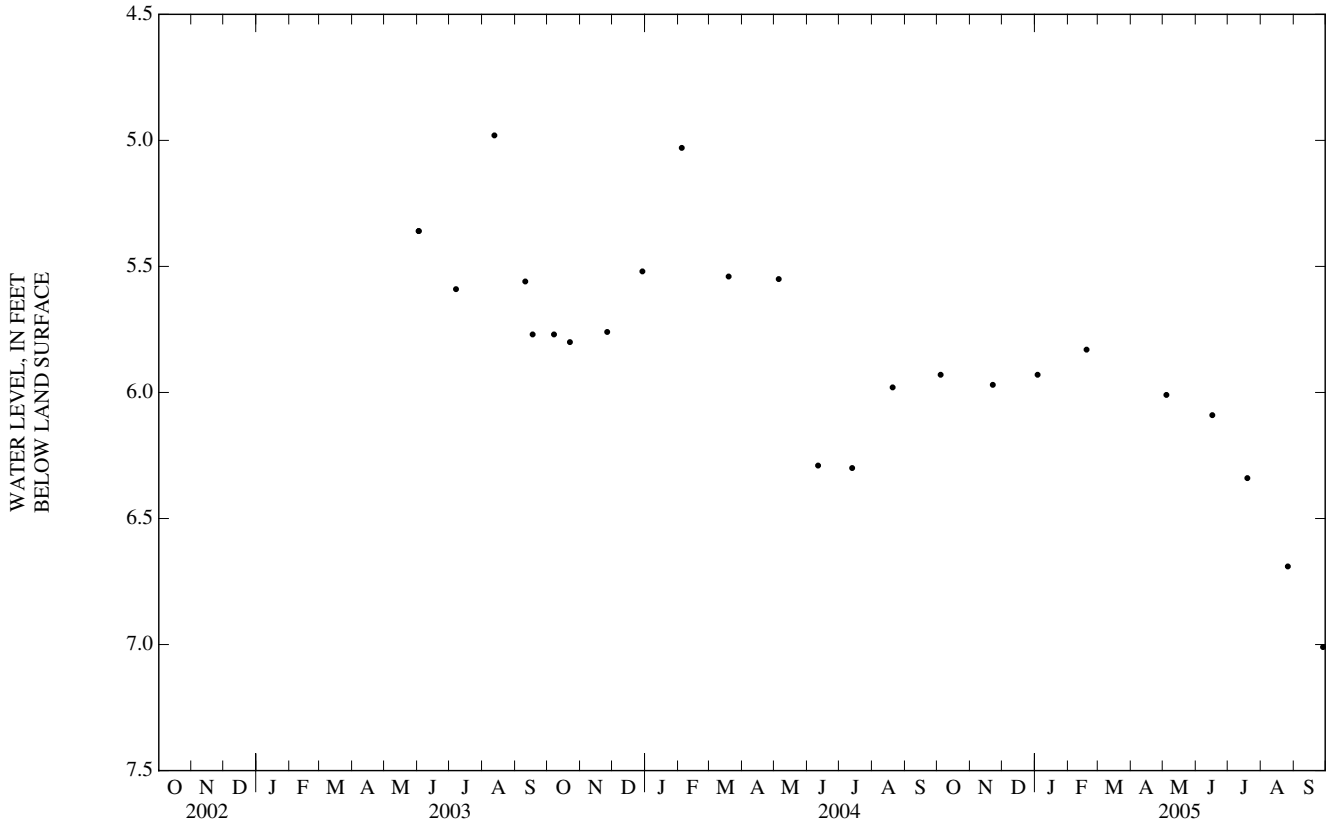
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.98 ft below land-surface datum, Aug. 12, 2003; lowest water level measured, 7.01 ft below land-surface datum, Sept. 28, 2005.

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	DATE	WATER LEVEL
OCT 04	5.93	JAN 03	5.93	MAY 04	6.01	JUL 19	6.34	SEP 28	7.01
NOV 22	5.97	FEB 18	5.83	JUN 16	6.09	AUG 26	6.69		



GROUND-WATER LEVELS  
ROCKINGHAM COUNTY—Continued

362334079421704. County number, RK-254; DENR Upper Piedmont Research Station PZ-4.

LOCATION.--Lat 36°23'34", long 79°42'17", Hydrologic Unit 03010103, .6 mi north of Wentworth St, .6 mi west of Secondary Road 1993 on North Carolina State University Research Farm. 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 31 ft, diameter 2 in., cased to 21 ft, screened interval from 21 to 31 ft, sand filter packed from 19 to 31 ft.

INSTRUMENTATION.--Measured periodically with electric tape by DENR.

DATUM.--Land-surface datum is 672.25 ft above NGVD of 1929. Measuring point: Top of protective steel casing, -0.22 ft above land-surface datum.

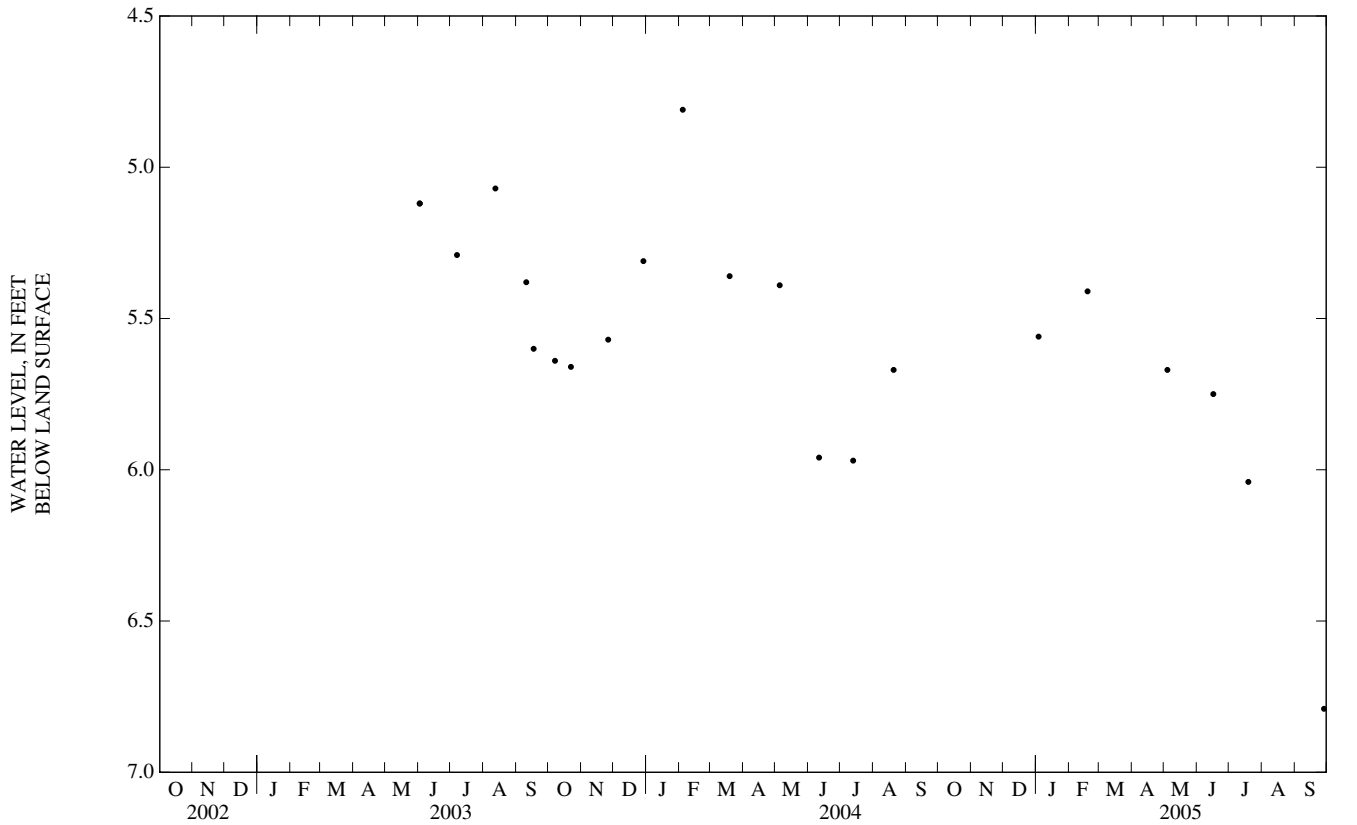
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.81 ft below land-surface datum, Feb. 4, 2004; lowest water level measured, 6.79 ft below land-surface datum, Sept. 28, 2005.

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	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 03	5.56	FEB 18	5.41	MAY 04	5.67	JUN 16	5.75	JUL 19	6.04	SEP 28	6.79



ROCKINGHAM COUNTY—Continued

362332079421601. County number, RK-255; DENR Upper Piedmont Research Station PZ-5.

LOCATION.--Lat 36°23'32", long 79°42'17", Hydrologic Unit 03010103, .6 mi north of Wentworth St, .6 mi west of Secondary Road 1993 on North Carolina State University Research Farm. 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 26 ft, diameter 2 in., cased to 16 ft, screened interval from 16 to 26 ft, sand filter packed from 14 to 26 ft.

INSTRUMENTATION.--Measured periodically with electric tape by DENR.

DATUM.--Land-surface datum is 671.62 ft above NGVD of 1929. Measuring point: Top of protective steel casing, -0.23 ft above land-surface datum.

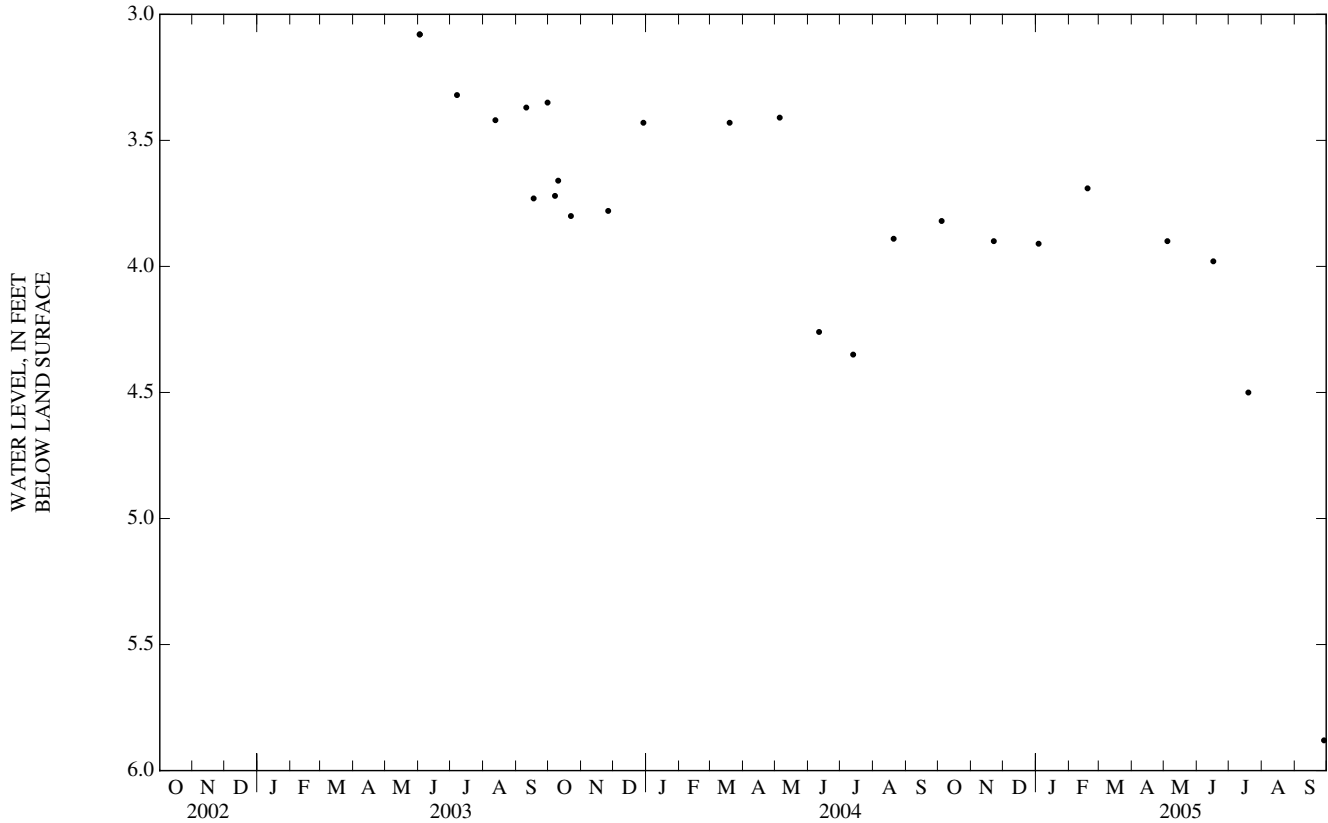
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.08 ft below land-surface datum, June 2, 2003; lowest water level measured, 5.88 ft below land-surface datum, Sept. 28, 2005.

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
OCT 04	3.82	JAN 03	3.91	MAY 04	3.90	JUL 19	4.50
NOV 22	3.90	FEB 18	3.69	JUN 16	3.98	SEP 28	5.88





GROUND-WATER LEVELS  
ROCKINGHAM COUNTY—Continued

362332079421602. County number, RK-256; DENR Upper Piedmont Research Station PZ-5I.

LOCATION.--Lat 36°23'32", long 79°42'17", Hydrologic Unit 03010103, .6 mi north of Wentworth St, .6 mi west of Secondary Road 1993 on North Carolina State University Research Farm. 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 40 ft, diameter 2 in., cased to 30 ft, screened interval from 30 to 40 ft, sand filter packed from 27 to 40 ft.

INSTRUMENTATION.--Measured periodically with electric tape by DENR.

DATUM.--Land-surface datum is 671.79 ft above NGVD of 1929. Measuring point: Top of protective steel casing, -0.33 ft above land-surface datum.

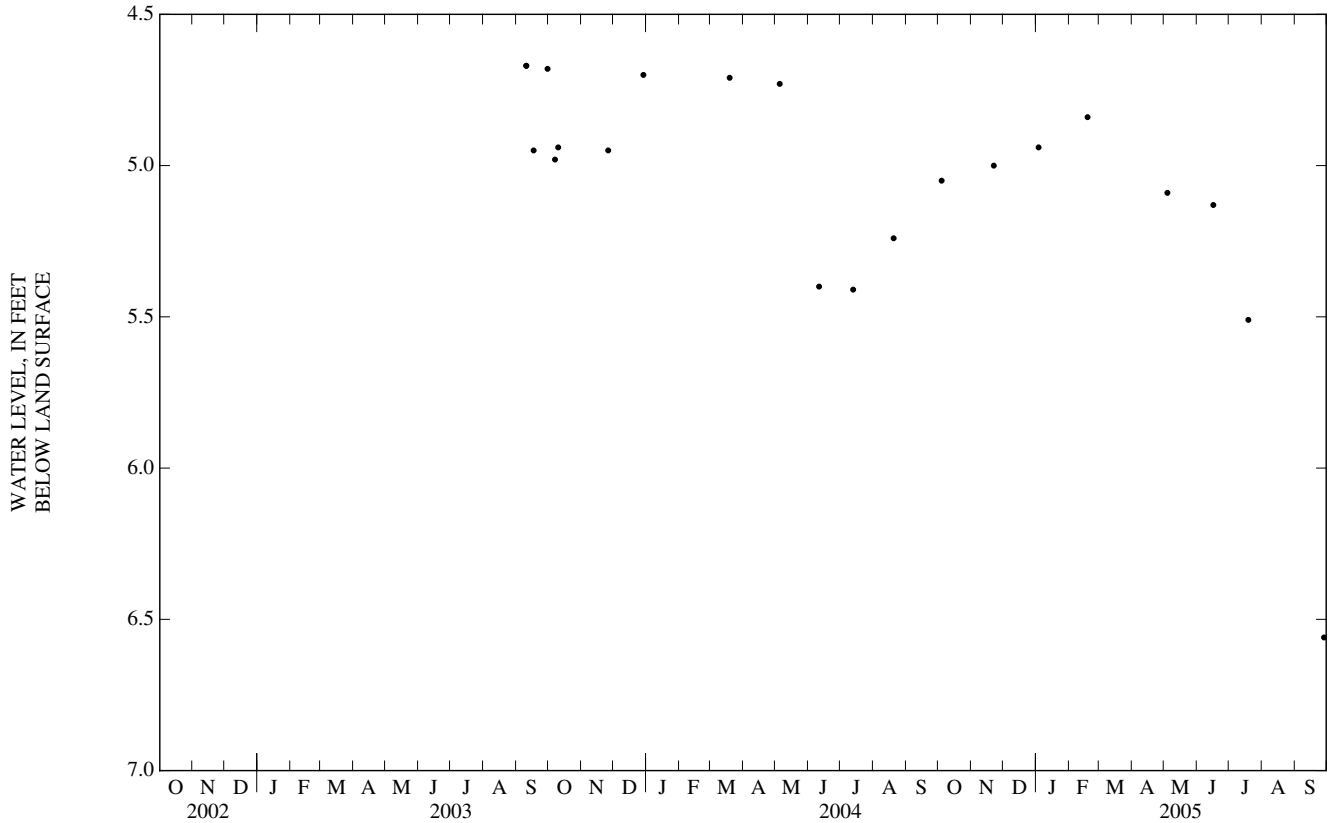
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.67 ft below land-surface datum, Sept. 10, 2003; lowest water level measured, 6.56 ft below land-surface datum, Sept. 28, 2005.

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
OCT 04	5.05	JAN 03	4.94	MAY 04	5.09	JUL 19	5.51
NOV 22	5.00	FEB 18	4.84	JUN 16	5.13	SEP 28	6.56



ROCKINGHAM COUNTY—Continued

362332079421603. County number, RK-257; DENR Upper Piedmont Research Station PZ-5D.

LOCATION.--Lat 36°23'32", long 79°42'17", Hydrologic Unit 03010103, .6 mi north of Wentworth St, .6 mi west of Secondary Road 1993 on North Carolina State University Research Farm. 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 90 ft, diameter 2 in., cased to 70 ft, screened interval from 70 to 90 ft, sand filter packed from 67 to 90 ft.

INSTRUMENTATION.--Measured periodically with electric tape by DENR.

DATUM.--Land-surface datum is 671.72 ft above NGVD of 1929. Measuring point: Top of protective steel casing, -0.51 ft above land-surface datum.

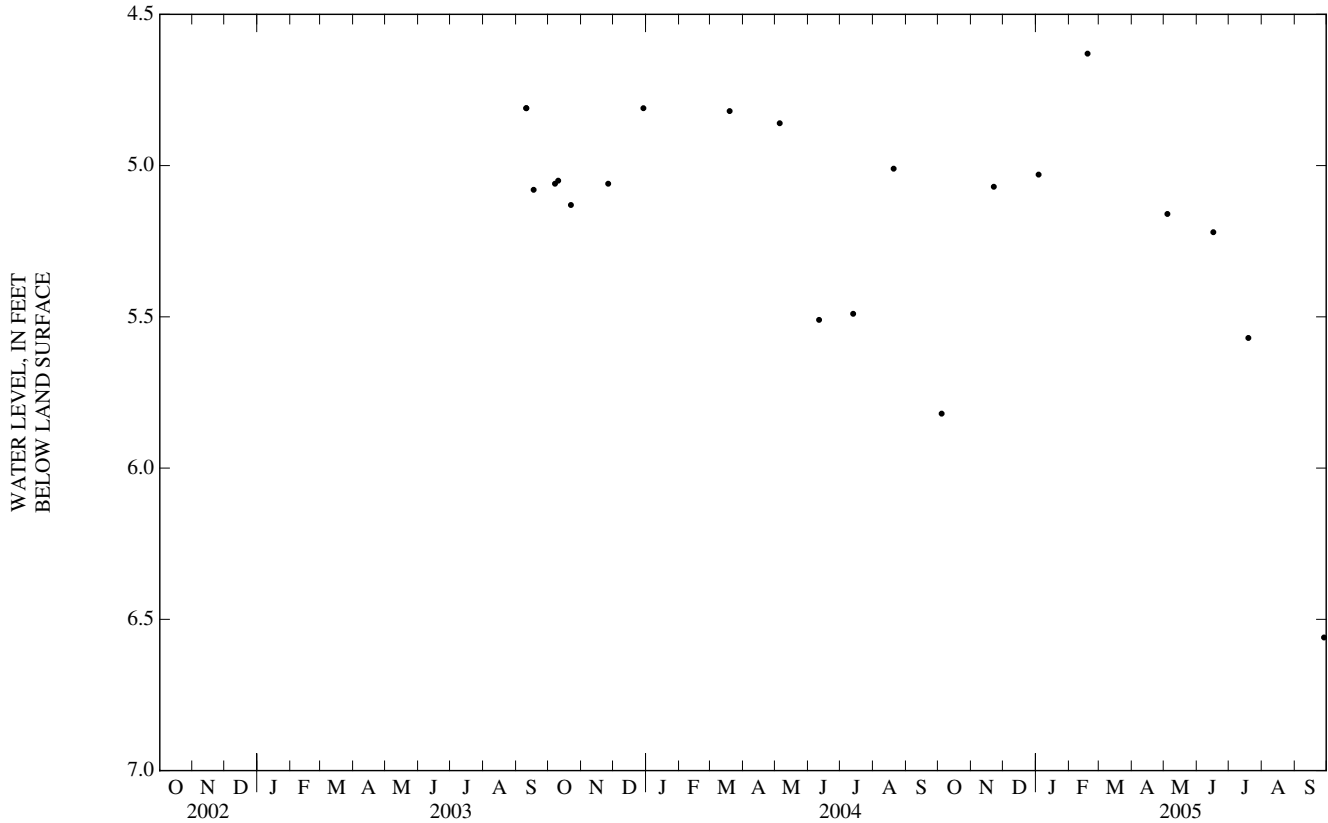
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.63 ft below land-surface datum, Feb. 18, 2005; lowest water level measured, 6.56 ft below land-surface datum, Sept. 28, 2005.

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
OCT 04	5.82	JAN 03	5.03	MAY 04	5.16	JUL 19	5.57
NOV 22	5.07	FEB 18	4.63	JUN 16	5.22	SEP 28	6.56



GROUND-WATER LEVELS  
ROCKINGHAM COUNTY—Continued

362331079421701. County number, RK-258; DENR Upper Piedmont Research Station PZ-6.

LOCATION.--Lat 36°23'32", long 79°42'17", Hydrologic Unit 03010103, .6 mi north of Wentworth St, .6 mi west of Secondary Road 1993 on North Carolina State University Research Farm. 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 ft, diameter 2 in., cased to 8 ft, screened interval from 8 to 13 ft, sand filter packed from 6 to 13 ft.

INSTRUMENTATION.--Measured periodically with electric tape by DENR.

DATUM.--Land-surface datum is 672.91 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.40 ft above land-surface datum.

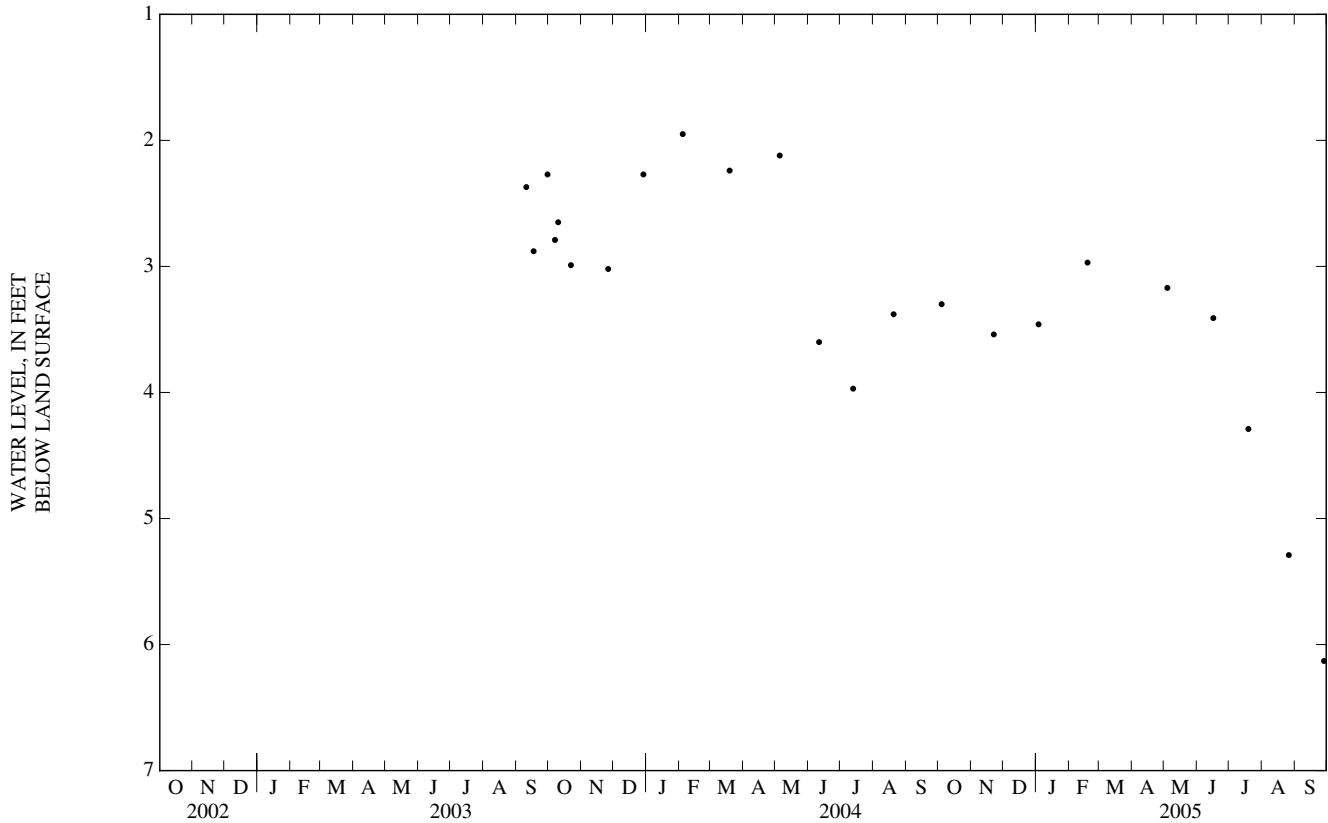
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.16 ft below land-surface datum, Aug. 12, 2003; lowest water level measured, 6.13 ft below land-surface datum, Sept. 28, 2005.

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	DATE	WATER LEVEL
OCT 04	3.30	JAN 03	3.46	MAY 04	3.17	JUL 19	4.29	SEP 28	6.13
NOV 22	3.54	FEB 18	2.97	JUN 16	3.41	AUG 26	5.29		



ROCKINGHAM COUNTY—Continued

362331079421702. County number, RK-259; DENR Upper Piedmont Research Station PZ-6I.

LOCATION.--Lat 36°23'32", long 79°42'17", Hydrologic Unit 03010103, .6 mi north of Wentworth St, .6 mi west of Secondary Road 1993 on North Carolina State University Research Farm. 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 40 ft, diameter 2 in., cased to 30 ft, screened interval from 30 to 40 ft, sand filter packed from 4 to 15 ft.

INSTRUMENTATION.--Measured periodically with electric tape by DENR.

DATUM.--Land-surface datum is 673.02 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.35 ft above land-surface datum.

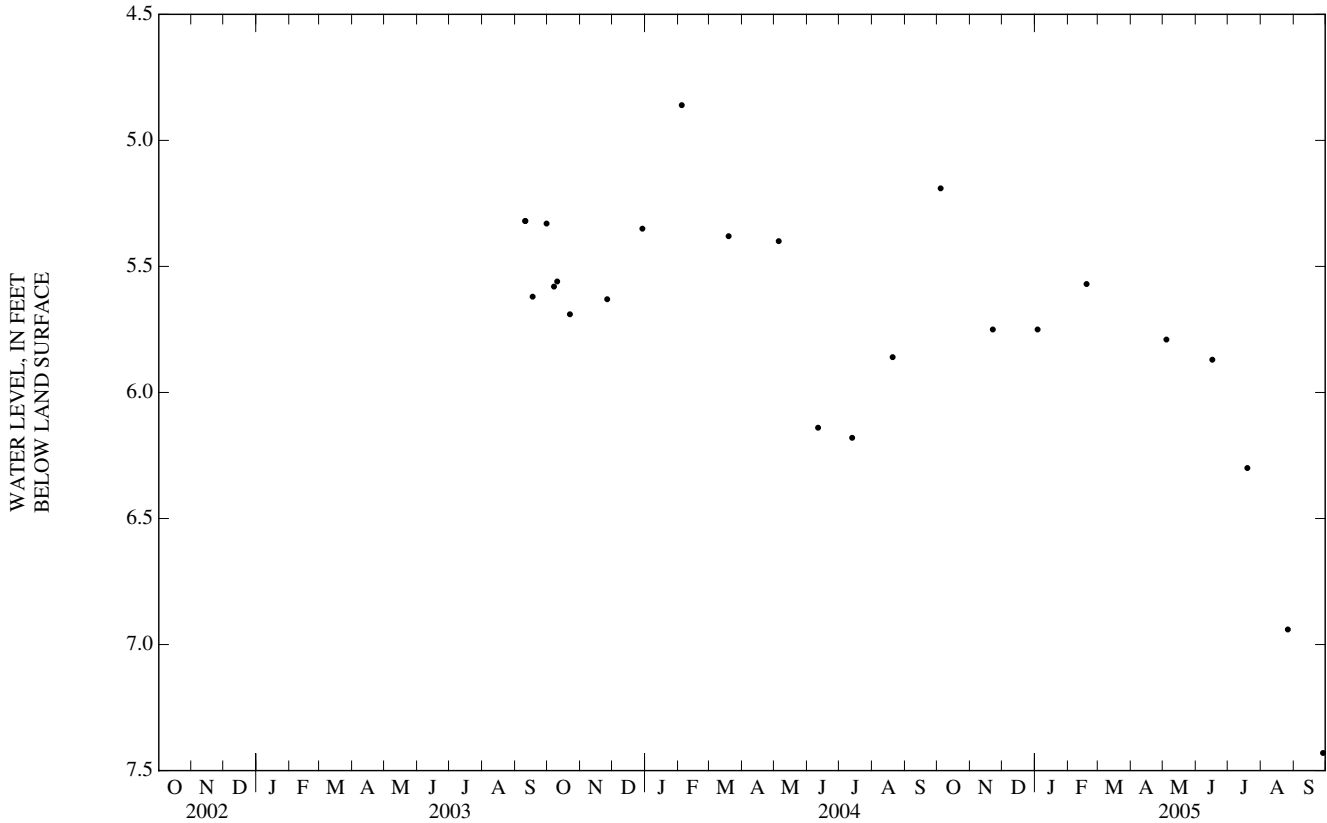
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.86 ft below land-surface datum, Feb. 4, 2004; lowest water level measured, 7.43 ft below land-surface datum, Sept. 28, 2005.

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	DATE	WATER LEVEL
OCT 04	5.19	JAN 03	5.75	MAY 04	5.79	JUL 19	6.30	SEP 28	7.43
NOV 22	5.75	FEB 18	5.57	JUN 16	5.87	AUG 26	6.94		



GROUND-WATER LEVELS  
ROCKINGHAM COUNTY—Continued

362331079421703. County number, RK-260; DENR Upper Piedmont Research Station PZ-6D.

LOCATION.--Lat 36°23'32", long 79°42'17", Hydrologic Unit 03010103, .6 mi north of Wentworth St, .6 mi west of Secondary Road 1993 on North Carolina State University Research Farm. 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 90 ft, diameter 2 in., cased to 70 ft, screened interval from 70 to 90 ft, sand filter packed from 67 to 90 ft.

INSTRUMENTATION.--Measured periodically with electric tape by DENR.

DATUM.--Land-surface datum is 673.04 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.34 ft above land-surface datum.

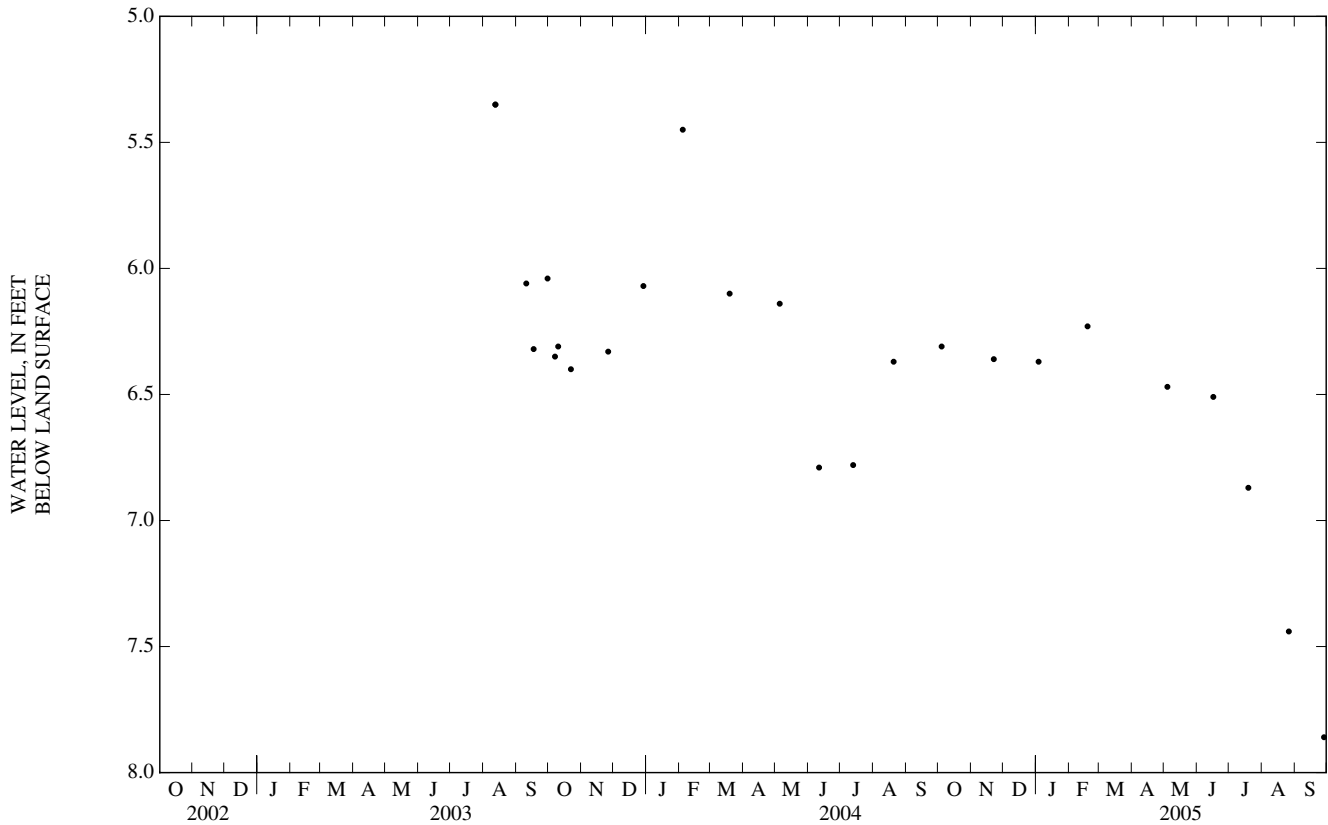
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.35 ft below land-surface datum, Aug. 12, 2003; lowest water level measured, 7.86 ft below land-surface datum, Sept. 28, 2005.

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	DATE	WATER LEVEL
OCT 04	6.31	JAN 03	6.37	MAY 04	6.47	JUL 19	6.87	SEP 28	7.86
NOV 22	6.36	FEB 18	6.23	JUN 16	6.51	AUG 26	7.44		



ROCKINGHAM COUNTY—Continued

362332079421604. County number, RK-261; DENR Upper Piedmont Research Station PZ-7.

LOCATION.--Lat 36°23'32", long 79°42'16", Hydrologic Unit 03010103, .6 mi north of Wentworth St, .6 mi west of Secondary Road 1993 on North Carolina State University Research Farm. 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 19 ft, diameter 2 in., cased to 14 ft, screened interval from 14 to 19 ft, sand filter packed from 12 to 19 ft.

INSTRUMENTATION.--Measured periodically with electric tape by DENR.

DATUM.--Land-surface datum is 671.43 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.19 ft above land-surface datum.

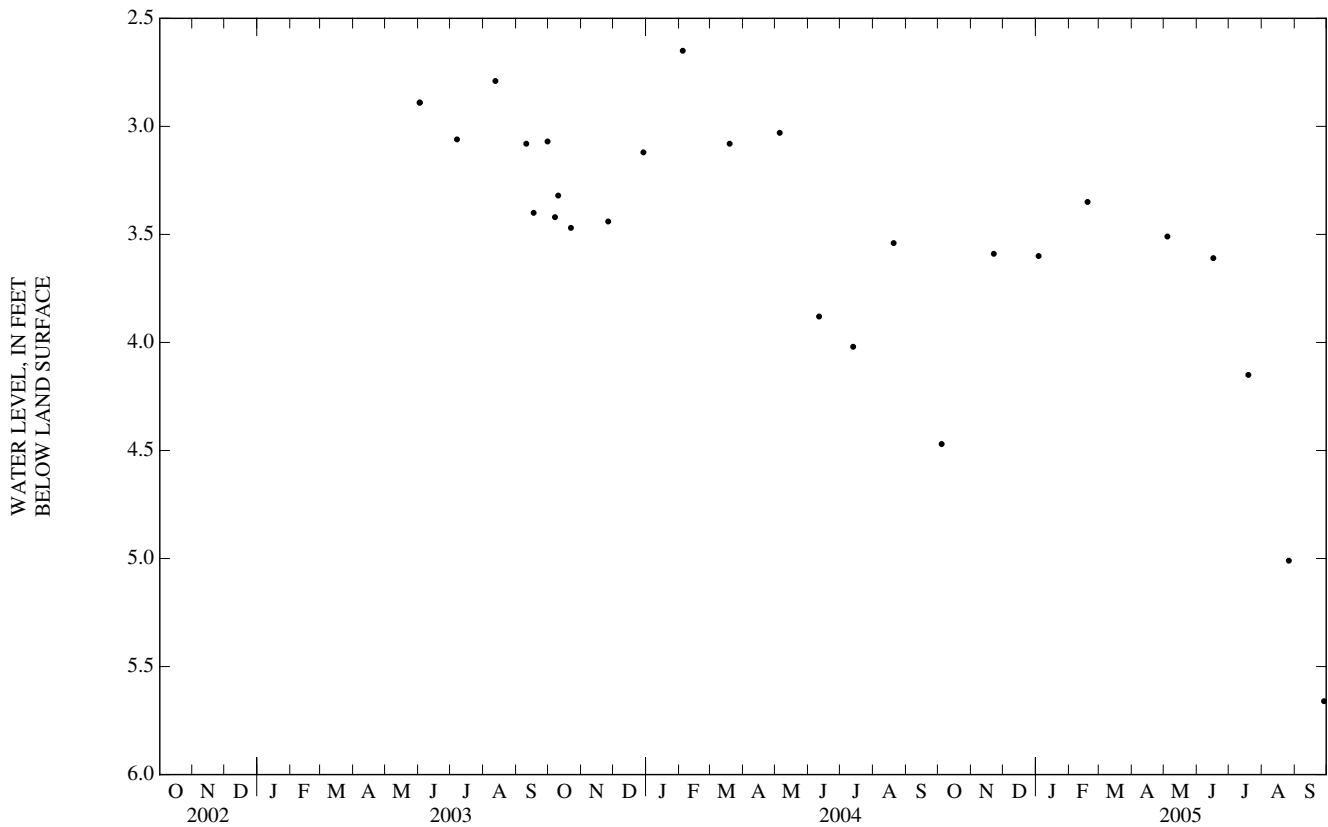
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.65 ft below land-surface datum, Feb. 4, 2004; lowest water level measured, 5.66 ft below land-surface datum, Sept. 28, 2005.

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	DATE	WATER LEVEL
OCT 04	4.47	JAN 03	3.60	MAY 04	3.51	JUL 19	4.15	SEP 28	5.66
NOV 22	3.59	FEB 18	3.35	JUN 16	3.61	AUG 26	5.01		



GROUND-WATER LEVELS  
ROCKINGHAM COUNTY—Continued

362331079421501. County number, RK-262; DENR Upper Piedmont Research Station PZ-7I.

LOCATION.--Lat 36°23'32", long 79°42'16", Hydrologic Unit 03010103, .6 mi north of Wentworth St, .6 mi west of Secondary Road 1993 on North Carolina State University Research Farm. 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 40 ft, diameter 2 in., cased to 30 ft, screened interval from 30 to 40 ft, sand filter packed from 26 to 30 ft.

INSTRUMENTATION.--Measured periodically with electric tape by DENR.

DATUM.--Land-surface datum is 671.28 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.33 ft above land-surface datum.

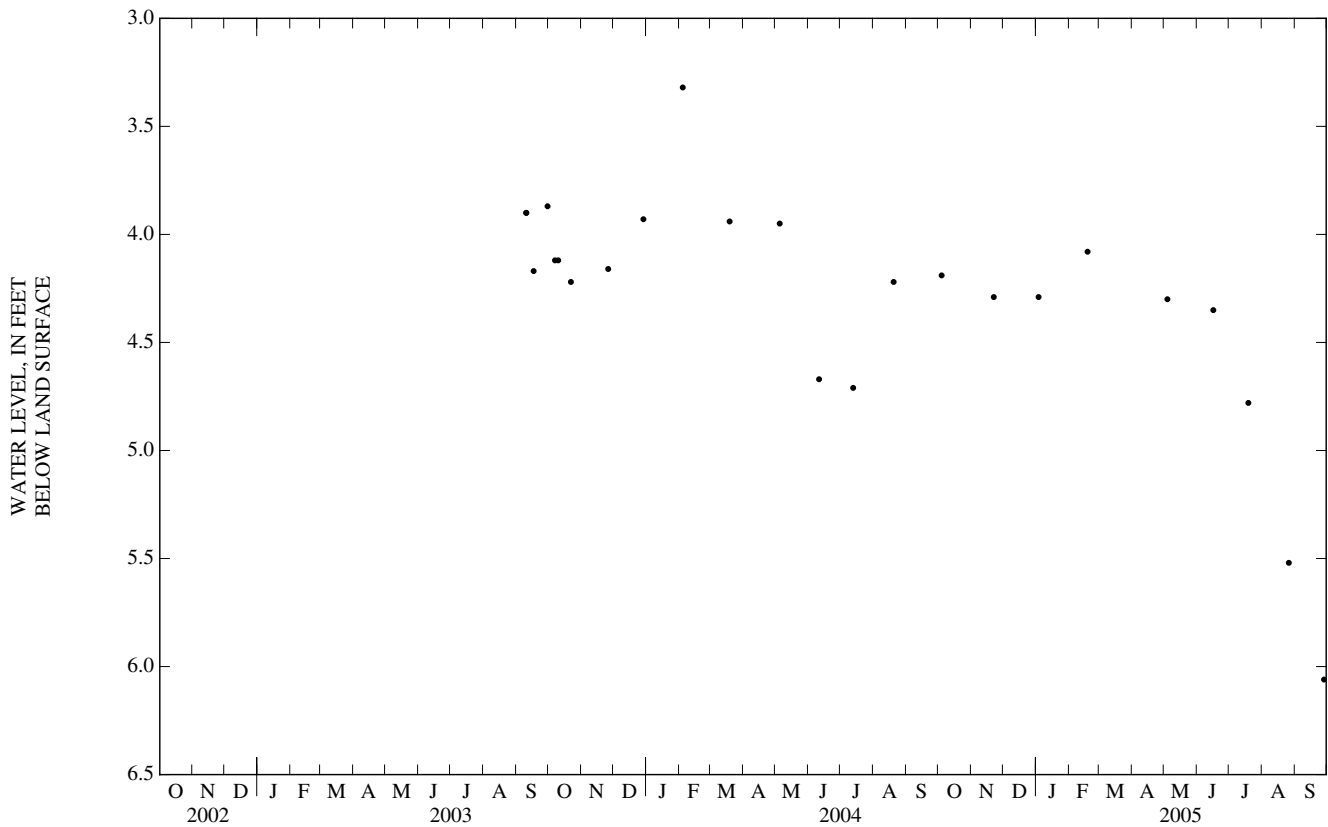
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.32 ft below land-surface datum, Feb. 4, 2004; lowest water level measured, 6.06 ft below land-surface datum, Sept. 28, 2005.

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	DATE	WATER LEVEL
OCT 04	4.19	JAN 03	4.29	MAY 04	4.30	JUL 19	4.78	SEP 28	6.06
NOV 22	4.29	FEB 18	4.08	JUN 16	4.35	AUG 26	5.52		



ROCKINGHAM COUNTY—Continued

362331079421502. County number, RK-263; DENR Upper Piedmont Research Station PZ-7D.

LOCATION.--Lat 36°23'32", long 79°42'16", Hydrologic Unit 03010103, .6 mi north of Wentworth St, .6 mi west of Secondary Road 1993 on North Carolina State University Research Farm. 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 95 ft, diameter 2 in., cased to 75 ft, screened interval from 75 to 95 ft, sand filter packed from 71 to 95 ft.

INSTRUMENTATION.--Measured periodically with electric tape by DENR.

DATUM.--Land-surface datum is 671.48 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.22 ft above land-surface datum.

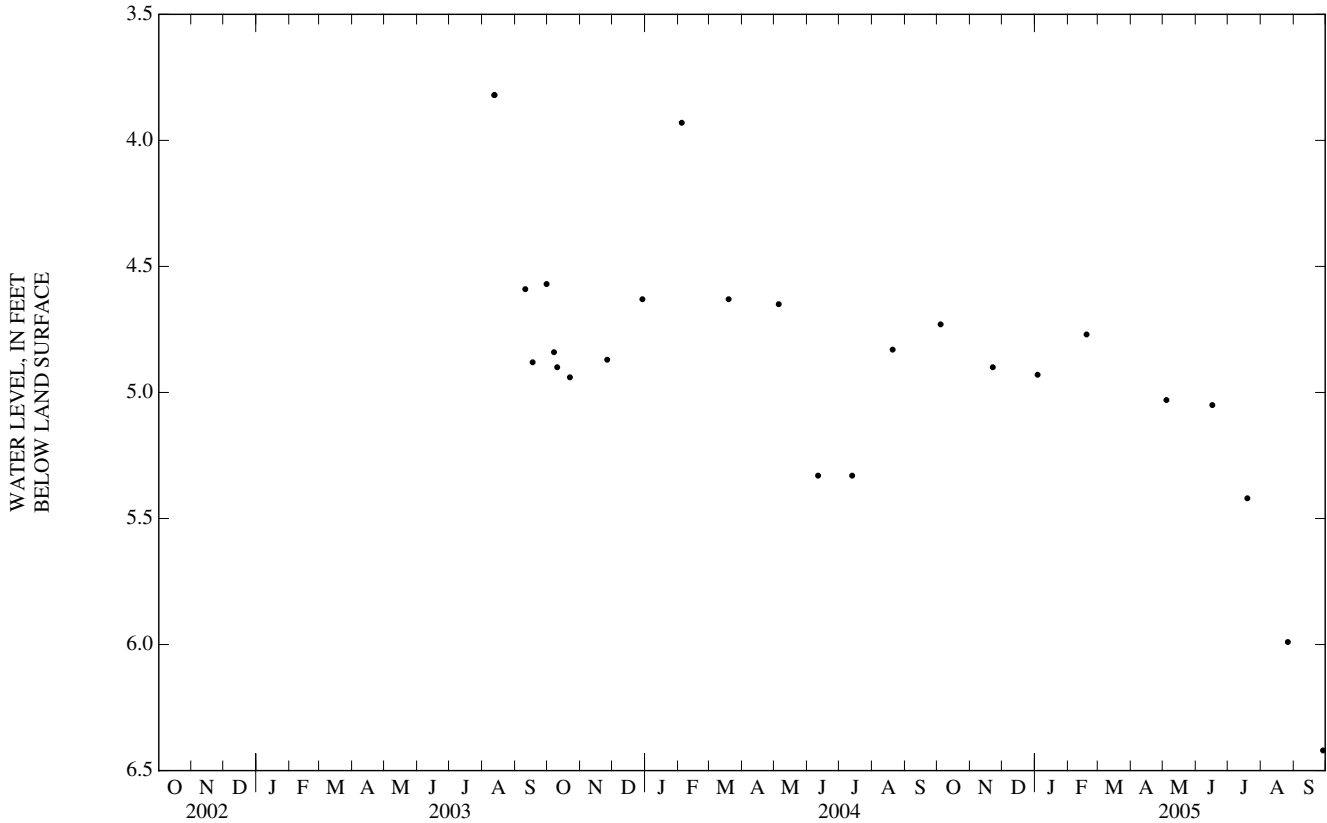
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.82 ft below land-surface datum, Aug. 12, 2003; lowest water level measured, 6.42 ft below land-surface datum, Sept. 28, 2005.

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	DATE	WATER LEVEL
OCT 04	4.73	JAN 03	4.93	MAY 04	5.03	JUL 19	5.42	SEP 28	6.42
NOV 22	4.90	FEB 18	4.77	JUN 16	5.05	AUG 26	5.99		





GROUND-WATER LEVELS  
ROCKINGHAM COUNTY—Continued

362332079421605. County number, RK-264; DENR Upper Piedmont Research Station PZ-8.

LOCATION.--Lat 36°23'32", long 79°42'17", Hydrologic Unit 03010103, .6 mi north of Wentworth St, .6 mi west of Secondary Road 1993 on North Carolina State University Research Farm. 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 2 in., cased to 14 ft, screened interval from 14 to 24 ft, sand filter packed from 12 to 24 ft.

INSTRUMENTATION.--Measured periodically with electric tape by DENR.

DATUM.--Land-surface datum is 677.21 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.34 ft above land-surface datum.

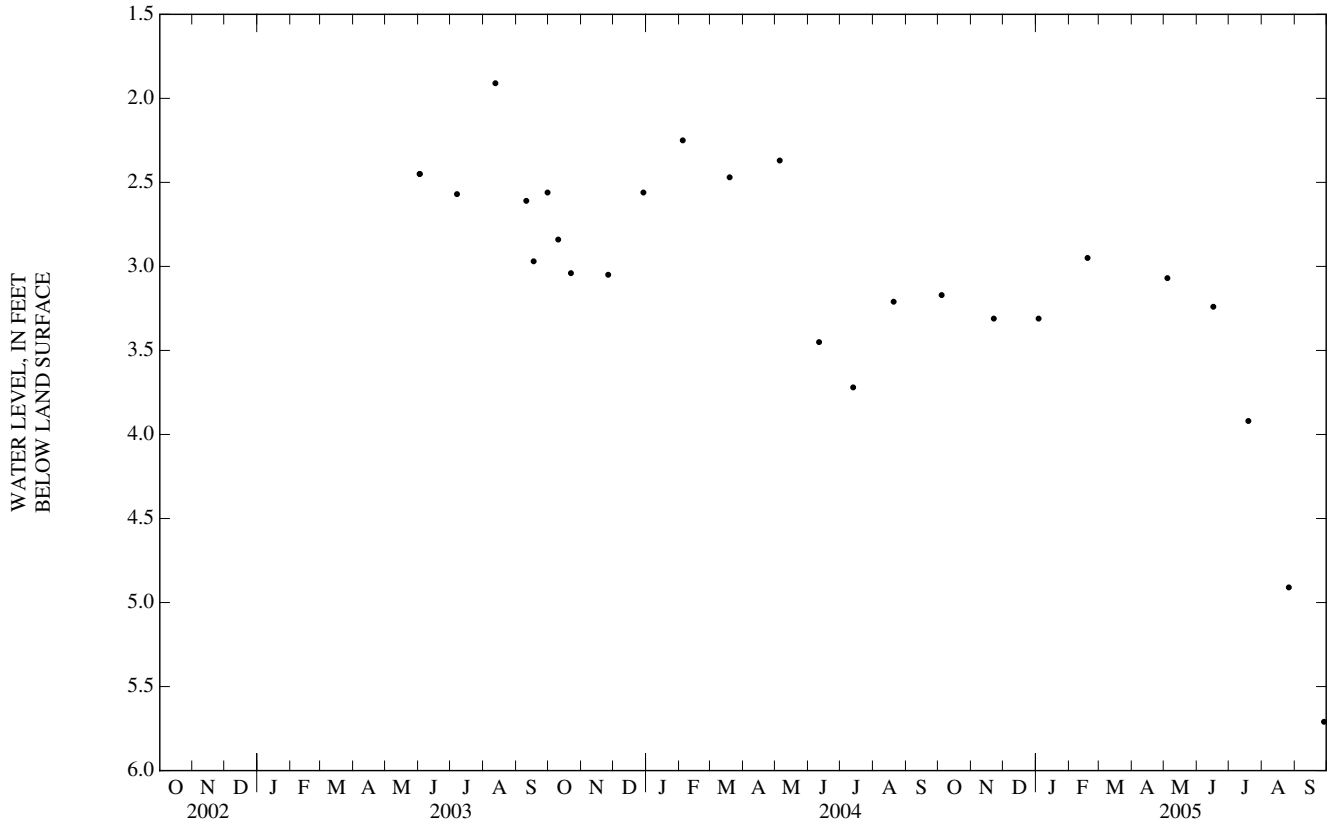
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.91 ft below land-surface datum, Aug. 12, 2003; lowest water level measured, 5.71 ft below land-surface datum, Sept. 28, 2005.

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	DATE	WATER LEVEL
OCT 04	3.17	JAN 03	3.31	MAY 04	3.07	JUL 19	3.92	SEP 28	5.71
NOV 22	3.31	FEB 18	2.95	JUN 16	3.24	AUG 26	4.91		



## ROWAN COUNTY

354057080362601. Local number, NC-193; DENR Piedmont Research Station well L63t1; County number, RO-149.

LOCATION.--Lat 35°40'58", long 80°36'25", Hydrologic Unit 03040102, 0.75 mi south of Secondary Road 1526 on Piedmont Research Station road, 2.75 mi south of Barber. Owner: North Carolina Department of Agriculture.

## WATER-LEVEL RECORDS

AQUIFER.--Unconfined alluvial silt.

WELL CHARACTERISTICS.--Drilled observation well, drilled to 24 ft, diameter 4 in., cased to 9 ft, screened interval from 9 to 19 ft, sand filter pack from 7.2 to 24 ft.

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

DATUM.--Land-surface datum is 678 ft above NGVD of 1929 (from topographic map). Measuring point: Two saw cuts in top of casing, 3.30 ft above land-surface datum.

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

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 4.97 ft below land-surface datum, Mar. 30, 1993; lowest water level recorded, 11.15 ft below land-surface datum, Sept. 14, 15, 16, 2002.

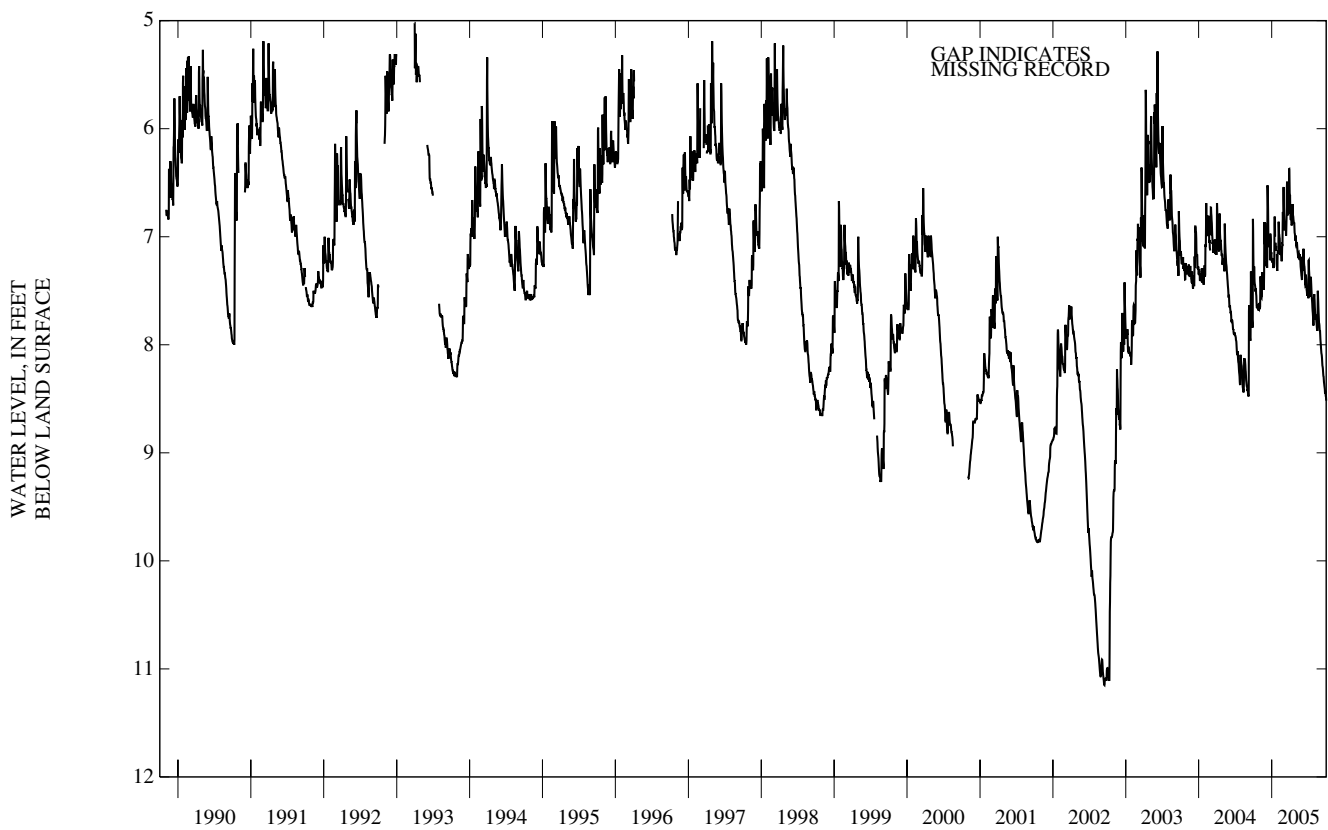
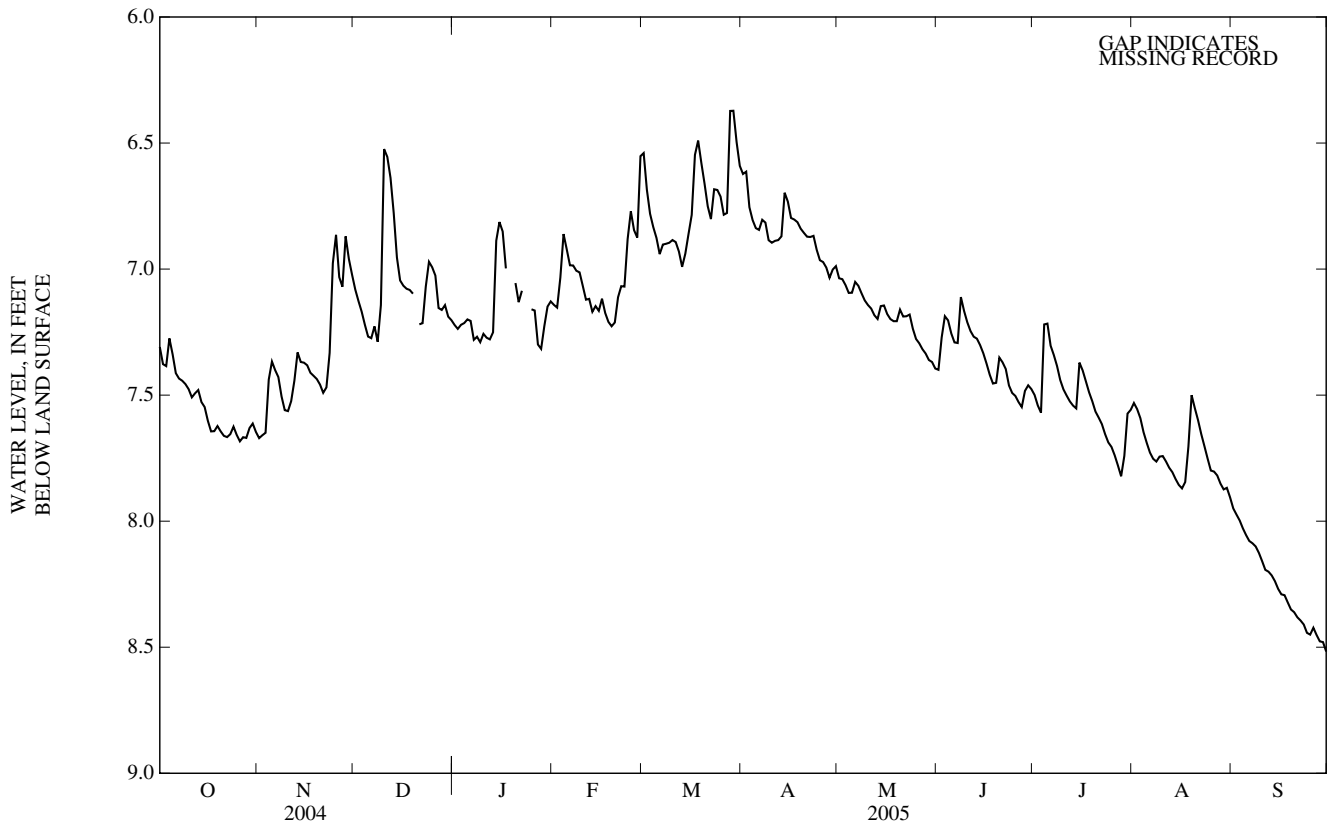
DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.31	7.67	7.08	7.22	7.14	6.54	6.62	7.04	7.40	7.50	7.53	7.95
2	7.38	7.66	7.13	7.24	7.15	6.68	6.61	7.04	7.27	7.54	7.56	7.97
3	7.38	7.65	7.17	7.22	7.03	6.78	6.75	7.06	7.19	7.57	7.59	8.00
4	7.28	7.44	7.22	7.21	6.86	6.83	6.81	7.09	7.20	7.22	7.65	8.03
5	7.34	7.37	7.27	7.20	6.92	6.88	6.84	7.09	7.26	7.22	7.69	8.06
6	7.41	7.40	7.27	7.21	6.99	6.94	6.84	7.05	7.29	7.30	7.73	8.08
7	7.43	7.43	7.23	7.28	6.99	6.90	6.80	7.07	7.29	7.34	7.75	8.09
8	7.44	7.51	7.29	7.27	7.01	6.90	6.82	7.10	7.11	7.38	7.76	8.10
9	7.46	7.56	7.14	7.29	7.01	6.90	6.89	7.12	7.17	7.44	7.74	8.13
10	7.48	7.56	6.52	7.26	7.07	6.88	6.90	7.14	7.21	7.48	7.74	8.16
11	7.51	7.52	6.55	7.27	7.12	6.89	6.89	7.16	7.25	7.50	7.76	8.19
12	7.49	7.44	6.64	7.28	7.12	6.93	6.88	7.18	7.27	7.52	7.79	8.20
13	7.48	7.33	6.78	7.25	7.17	6.99	6.87	7.20	7.28	7.54	7.81	8.22
14	7.53	7.37	6.95	6.89	7.15	6.94	6.70	7.15	7.30	7.55	7.83	8.24
15	7.55	7.37	7.04	6.81	7.17	6.86	6.73	7.14	7.33	7.37	7.86	8.27
16	7.60	7.38	7.07	6.85	7.12	6.79	6.80	7.18	7.38	7.40	7.87	8.29
17	7.64	7.41	7.08	7.00	7.17	6.55	6.80	7.20	7.42	7.45	7.84	8.29
18	7.64	7.42	7.08	---	7.21	6.49	6.81	7.21	7.45	7.49	7.70	8.32
19	7.62	7.44	7.10	---	7.23	6.58	6.84	7.21	7.45	7.52	7.50	8.35
20	7.64	7.46	---	7.06	7.21	6.66	6.86	7.16	7.35	7.57	7.55	8.36
21	7.66	7.49	7.22	7.13	7.11	6.75	6.87	7.19	7.37	7.59	7.60	8.38
22	7.67	7.47	7.21	7.09	7.07	6.80	6.87	7.19	7.40	7.62	7.65	8.39
23	7.65	7.33	7.07	---	7.07	6.68	6.87	7.18	7.46	7.65	7.70	8.41
24	7.62	6.98	6.97	---	6.88	6.69	6.92	7.24	7.49	7.69	7.75	8.44
25	7.66	6.86	6.99	7.16	6.77	6.71	6.96	7.28	7.50	7.71	7.80	8.45
26	7.68	7.03	7.03	7.16	6.85	6.78	6.97	7.29	7.53	7.74	7.80	8.42
27	7.67	7.07	7.15	7.30	6.88	6.78	6.99	7.32	7.55	7.78	7.82	8.45
28	7.67	6.87	7.16	7.32	6.55	6.37	7.03	7.33	7.48	7.82	7.85	8.48
29	7.63	6.96	7.14	7.23	---	6.37	7.00	7.36	7.46	7.74	7.87	8.48
30	7.61	7.02	7.19	7.15	---	6.50	6.99	7.37	7.48	7.57	7.87	8.52
31	7.65	---	7.20	7.13	---	6.59	---	7.39	---	7.56	7.91	---

WTR YR 2005 MEAN 7.32 HIGH 6.37 LOW 8.52

GROUND-WATER LEVELS  
ROWAN COUNTY—Continued

354057080362601. Local number, NC-193; DENR Piedmont Research Station well L63t1; County number, RO-149.



354057080362601 Local number, NC-193; DENR Piedmont Research Station well L63t1; County number, RO-149—Continued

PRECIPITATION RECORDS

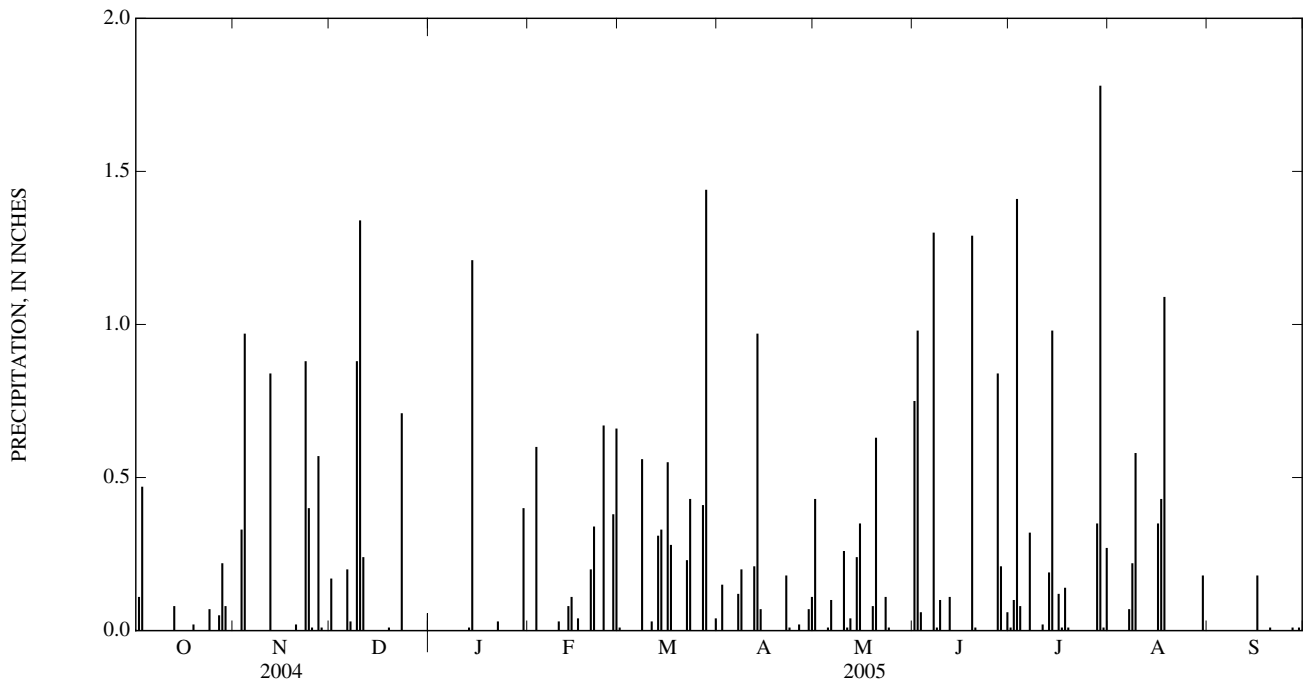
PERIOD OF RECORD.--April 1996 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Gage is operated as part of climatic-effects network. 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	0.00	0.00	0.17	0.00	0.00	0.01	0.00	0.43	0.75	0.01	0.00	0.00
2	0.11	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.98	0.10	0.00	0.00
3	0.47	0.33	0.00	0.00	0.60	0.00	0.00	0.00	0.06	1.41	0.00	0.00
4	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
6	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
7	0.00	0.00	0.03	0.00	0.00	0.00	0.12	0.00	1.30	0.32	0.07	0.00
8	0.00	0.00	0.00	0.00	0.00	0.56	0.20	0.00	0.01	0.00	0.22	0.00
9	0.00	0.00	0.88	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.58	0.00
10	0.00	0.00	1.34	0.00	0.03	0.00	0.00	0.26	0.00	0.00	0.00	0.00
11	0.00	0.00	0.24	0.00	0.00	0.03	0.00	0.01	0.00	0.02	0.00	0.00
12	0.00	0.84	0.00	0.00	0.00	0.00	0.21	0.04	0.11	0.00	0.00	0.00
13	0.08	0.00	0.00	0.01	0.08	0.31	0.97	0.00	0.00	0.19	0.00	0.00
14	0.00	0.00	0.00	1.21	0.11	0.33	0.07	0.24	0.00	0.98	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.04	0.55	0.00	0.00	0.00	0.12	0.35	0.18
17	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.01	0.43	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	1.09	0.00
19	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.08	1.29	0.01	0.00	0.00
20	0.00	0.02	0.00	0.00	0.20	0.00	0.00	0.63	0.01	0.00	0.00	0.01
21	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.03	0.00	0.23	0.18	0.00	0.00	0.00	0.00	0.00
23	0.00	0.88	0.71	0.00	0.00	0.43	0.01	0.11	0.00	0.00	0.00	0.00
24	0.07	0.40	0.00	0.00	0.67	0.00	0.00	0.01	0.00	0.00	0.00	0.00
25	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00
27	0.05	0.57	0.00	0.00	0.38	0.41	0.00	0.00	0.84	0.00	0.00	0.01
28	0.22	0.01	0.00	0.00	0.66	1.44	0.00	0.00	0.21	0.35	0.00	0.00
29	0.08	0.00	0.00	0.00	---	0.00	0.07	0.00	0.00	1.78	0.00	0.01
30	0.00	0.00	0.00	0.40	---	0.00	0.11	0.00	0.06	0.01	0.18	0.00
31	0.00	---	0.00	0.00	---	0.04	---	0.00	---	0.27	0.00	---
TOTAL	1.10	4.03	3.58	1.65	3.11	4.62	2.11	2.27	5.72	5.80	2.92	0.21



GROUND-WATER LEVELS

SCOTLAND COUNTY

344520079281001. County number, SC-040; Laurinburg well 4.

LOCATION.--Lat 34°45'18", long 79°28'02", Hydrologic Unit 03040204, in Laurinburg off Willow Drive. Owner: City of Laurinburg.

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

WELL CHARACTERISTICS.--Drilled unused supply well, depth 240 ft, diameter 10 and 8 in., screened intervals 70 to 106 ft, 150 to 165 ft, 185 to 195 ft, 200 to 205 ft, and 217 to 224 ft (reported by driller).

INSTRUMENTATION.--Pressure transducer recording data at 15-minute intervals.

DATUM.--Land-surface datum is 210 ft above NGVD of 1929 (from topographic map). Measuring point: Top of instrument shelf, 1.5 ft above land-surface datum (since July 2000).

REMARKS.--Station operated in cooperation with the City of Laurinburg. Water levels affected by nearby municipal wells.

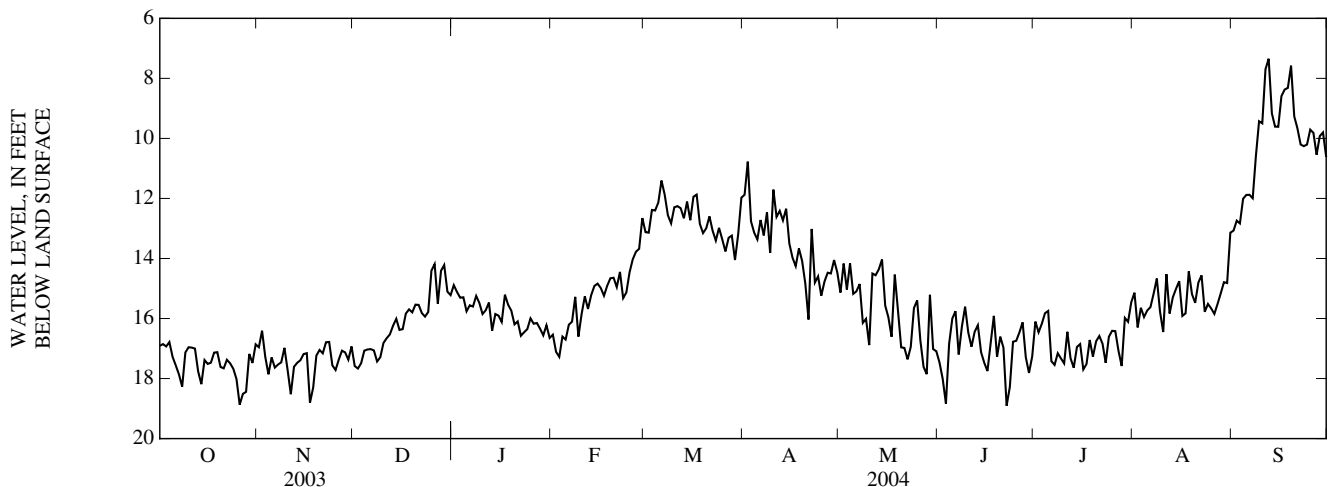
PERIOD OF RECORD.--July 1969 to current year. Continuous record December 2000 to November 2004, April 2005 to September 2005.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 5.94 ft below land-surface datum, July 10, 2005; lowest water level recorded, 21.83 ft below land-surface datum, June 3, 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	16.91	16.96	17.58	14.89	16.54	13.12	11.88	15.14	17.47	16.10	15.14	13.07
2	16.85	16.41	17.67	15.12	17.11	13.14	10.78	14.17	18.02	16.46	16.30	12.74
3	16.93	17.28	17.49	15.31	17.28	12.38	12.76	15.03	18.84	16.18	15.64	12.83
4	16.78	17.86	17.07	15.29	16.60	12.40	13.14	14.17	16.85	15.83	15.95	12.01
5	17.27	17.30	17.03	15.76	16.70	12.14	13.36	15.18	16.00	15.75	15.73	11.88
6	17.56	17.63	17.02	15.56	16.21	11.40	12.72	15.09	15.76	17.42	15.62	11.88
7	17.86	17.53	17.06	15.60	16.11	11.88	13.23	14.85	17.20	17.55	15.17	11.99
8	18.27	17.46	17.43	15.25	15.28	12.56	12.46	16.14	16.26	17.16	14.67	10.58
9	17.13	16.98	17.29	15.48	16.60	12.83	13.82	16.01	15.61	17.33	15.78	9.43
10	16.96	17.71	16.81	15.85	15.85	12.29	11.71	16.89	16.47	17.50	16.45	9.50
11	16.97	18.52	16.66	15.72	15.26	12.26	12.61	14.50	16.94	16.44	14.52	7.70
12	17.00	17.61	16.53	15.47	15.68	12.33	12.41	14.56	16.44	17.32	15.83	7.35
13	17.76	17.48	16.24	16.40	15.22	12.66	12.73	14.36	16.22	17.64	15.30	9.17
14	18.19	17.39	16.01	15.85	14.91	12.11	12.34	14.04	17.12	16.95	15.01	9.61
15	17.38	17.18	16.38	15.90	14.84	12.73	13.50	15.57	17.48	16.85	14.76	9.61
16	17.51	17.16	16.36	16.11	14.98	11.94	13.98	15.96	17.75	17.70	15.92	8.59
17	17.47	18.81	15.84	15.21	15.24	11.87	14.26	16.61	16.82	17.52	15.83	8.37
18	17.14	18.30	15.70	15.54	14.91	12.85	13.67	14.54	15.91	16.71	14.43	8.32
19	17.12	17.23	15.80	15.74	14.66	13.15	14.08	15.74	17.27	17.27	15.19	7.58
20	17.61	17.05	15.54	16.20	14.64	12.99	14.84	16.96	16.60	16.76	15.48	9.27
21	17.66	17.16	15.55	16.10	14.95	12.60	16.03	16.98	16.97	16.58	14.80	9.67
22	17.37	16.79	15.82	16.58	14.45	13.08	13.02	17.36	18.90	16.84	14.56	10.20
23	17.49	16.78	15.94	16.46	15.32	13.40	14.80	16.95	18.28	17.48	15.78	10.26
24	17.67	17.56	15.78	16.35	15.13	12.98	14.60	15.65	16.77	16.61	15.51	10.20
25	18.02	17.72	14.41	16.00	14.46	13.36	15.24	15.40	16.74	16.41	15.66	9.71
26	18.87	17.37	14.19	16.17	14.03	13.77	14.77	16.73	16.46	16.42	15.85	9.81
27	18.51	17.07	15.51	16.15	13.78	13.31	14.47	17.61	16.13	17.08	15.51	10.54
28	18.44	17.13	14.41	16.34	13.68	13.24	14.50	17.85	17.29	17.58	15.16	9.92
29	17.18	17.37	14.22	16.56	12.65	14.05	14.05	15.21	17.81	15.98	14.79	9.80
30	17.48	16.93	15.11	16.23	---	13.19	14.46	17.02	17.26	16.11	14.82	10.62
31	16.86	---	15.22	16.65	---	11.97	---	17.09	---	15.46	13.14	---

WTR YR 2004 MEAN 15.29 HIGH 7.35 LOW 18.90



GROUND-WATER LEVELS

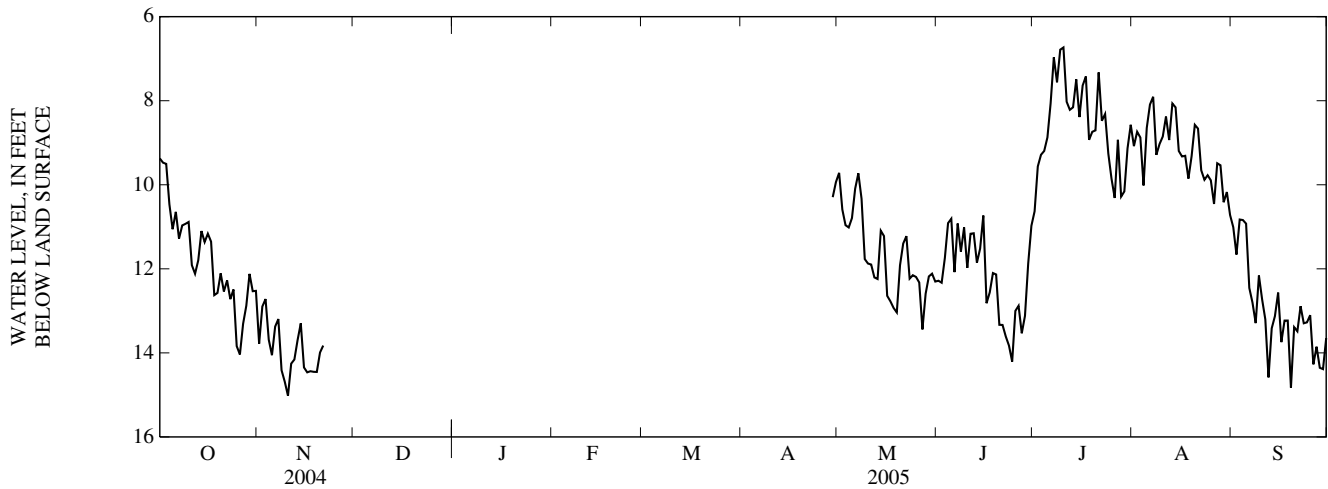
SCOTLAND COUNTY—Continued

344520079281001. County number, SC-040; Laurinburg well 4.

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

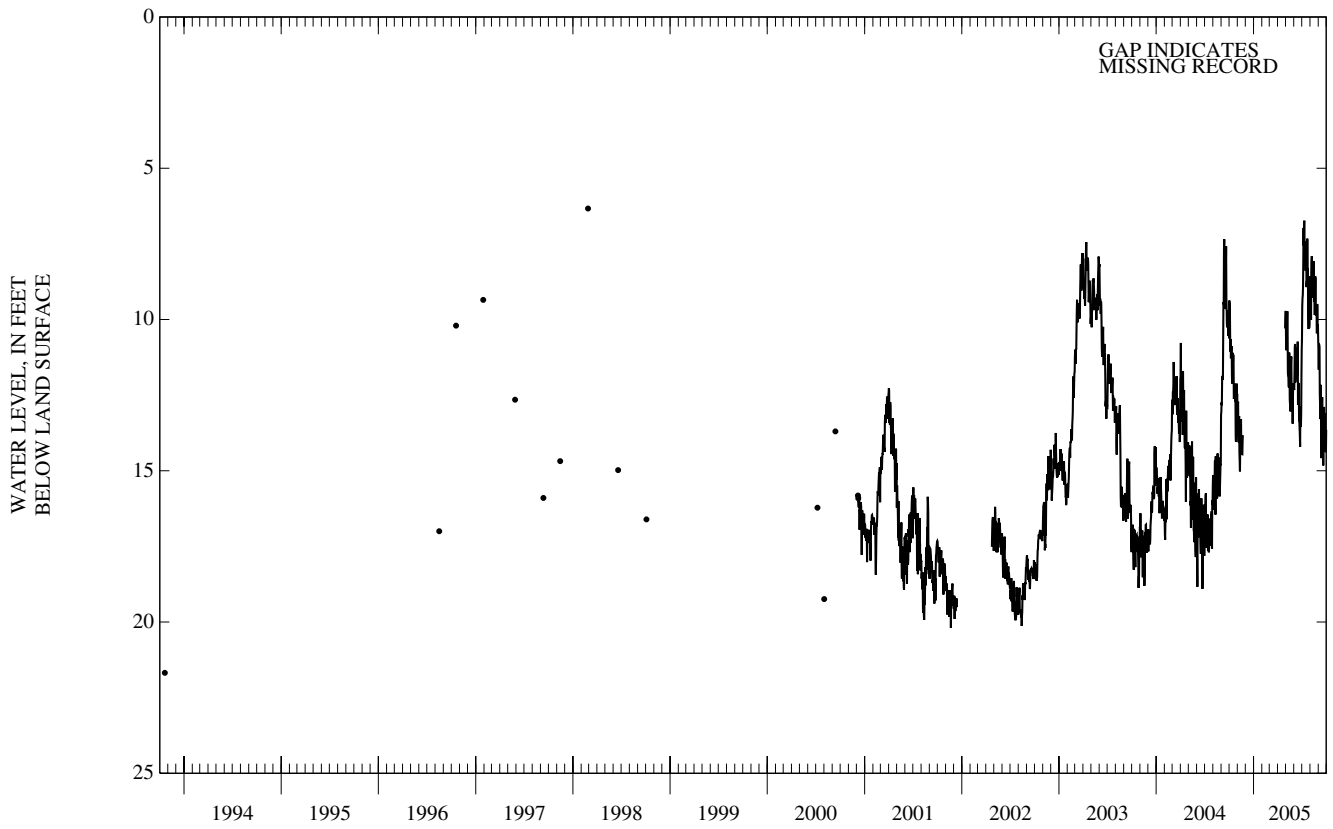
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.37	13.78	---	---	---	---	---	9.72	12.28	10.63	9.08	11.01
2	9.47	12.90	---	---	---	---	---	10.59	12.33	9.56	8.74	11.66
3	9.50	12.72	---	---	---	---	---	10.96	11.74	9.29	8.88	10.83
4	10.47	13.69	---	---	---	---	---	11.02	10.91	9.20	10.02	10.84
5	11.06	14.06	---	---	---	---	---	10.79	10.81	8.87	8.65	10.93
6	10.64	13.37	---	---	---	---	---	10.09	12.08	8.06	8.09	12.45
7	11.28	13.20	---	---	---	---	---	9.73	10.92	6.97	7.91	12.80
8	10.97	14.41	---	---	---	---	---	10.33	11.59	7.56	9.29	13.29
9	10.93	14.69	---	---	---	---	---	11.77	11.02	6.79	9.03	12.16
10	10.89	15.02	---	---	---	---	---	11.87	11.98	6.73	8.85	12.73
11	11.91	14.26	---	---	---	---	---	11.90	11.17	8.03	8.38	13.20
12	12.12	14.16	---	---	---	---	---	12.20	11.15	8.22	8.94	14.58
13	11.80	13.70	---	---	---	---	---	12.24	11.86	8.16	8.07	13.42
14	11.10	13.30	---	---	---	---	---	11.09	11.52	7.49	8.16	13.13
15	11.36	14.35	---	---	---	---	---	11.22	10.73	8.39	9.20	12.57
16	11.16	14.46	---	---	---	---	---	12.64	12.82	7.64	9.33	13.74
17	11.35	14.44	---	---	---	---	---	12.77	12.56	7.42	9.31	13.23
18	12.63	14.45	---	---	---	---	---	12.93	12.10	8.93	9.85	13.23
19	12.57	14.45	---	---	---	---	---	13.04	12.13	8.74	9.32	14.83
20	12.11	13.99	---	---	---	---	---	11.92	13.33	8.71	8.57	13.39
21	12.54	13.83	---	---	---	---	---	11.40	13.34	7.33	8.66	13.49
22	12.28	---	---	---	---	---	---	11.22	13.61	8.48	9.66	12.89
23	12.72	---	---	---	---	---	---	12.23	13.83	8.32	9.88	13.30
24	12.49	---	---	---	---	---	---	12.15	14.21	9.26	9.77	13.27
25	13.84	---	---	---	---	---	---	12.19	13.00	9.85	9.89	13.10
26	14.04	---	---	---	---	---	---	12.33	12.88	10.31	10.46	14.27
27	13.31	---	---	---	---	---	---	13.44	13.53	8.93	9.49	13.85
28	12.88	---	---	---	---	---	---	12.59	13.12	10.28	9.54	14.36
29	12.12	---	---	---	---	---	10.29	12.18	11.88	10.16	10.42	14.39
30	12.53	---	---	---	---	---	9.94	12.12	10.98	9.13	10.17	13.65
31	12.52	---	---	---	---	---	---	12.30	---	8.57	10.72	---

WTR YR 2005 MEAN 11.35 HIGH 6.73 LOW 15.02



GROUND-WATER LEVELS  
SCOTLAND COUNTY—Continued

344520079281001. County number, SC-040; Laurinburg well 4.

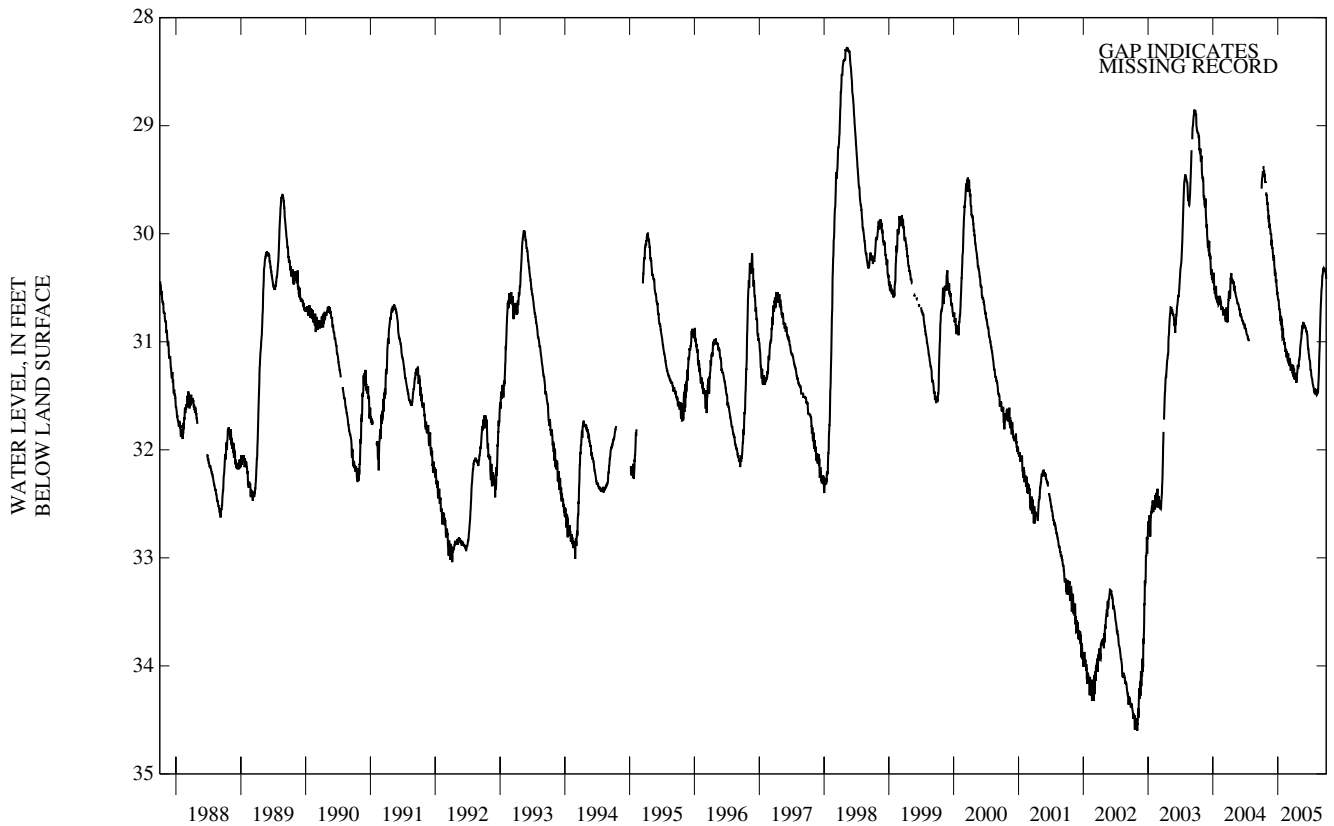
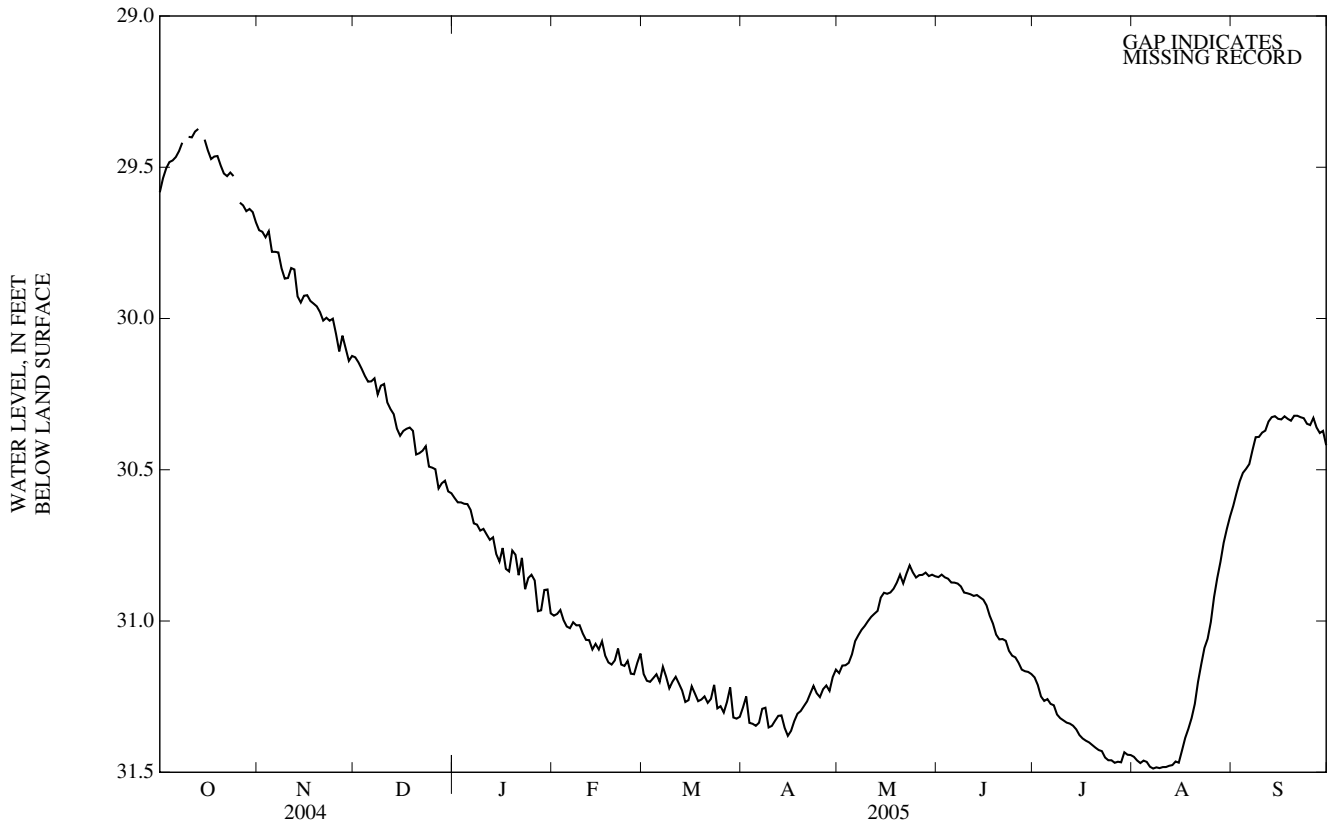






GROUND-WATER LEVELS  
SCOTLAND COUNTY—Continued

345812079313401. Local number, NC-194; County number, SC-080.



345812079313401 Local number, NC-194; County number, SC-080

PRECIPITATION RECORDS

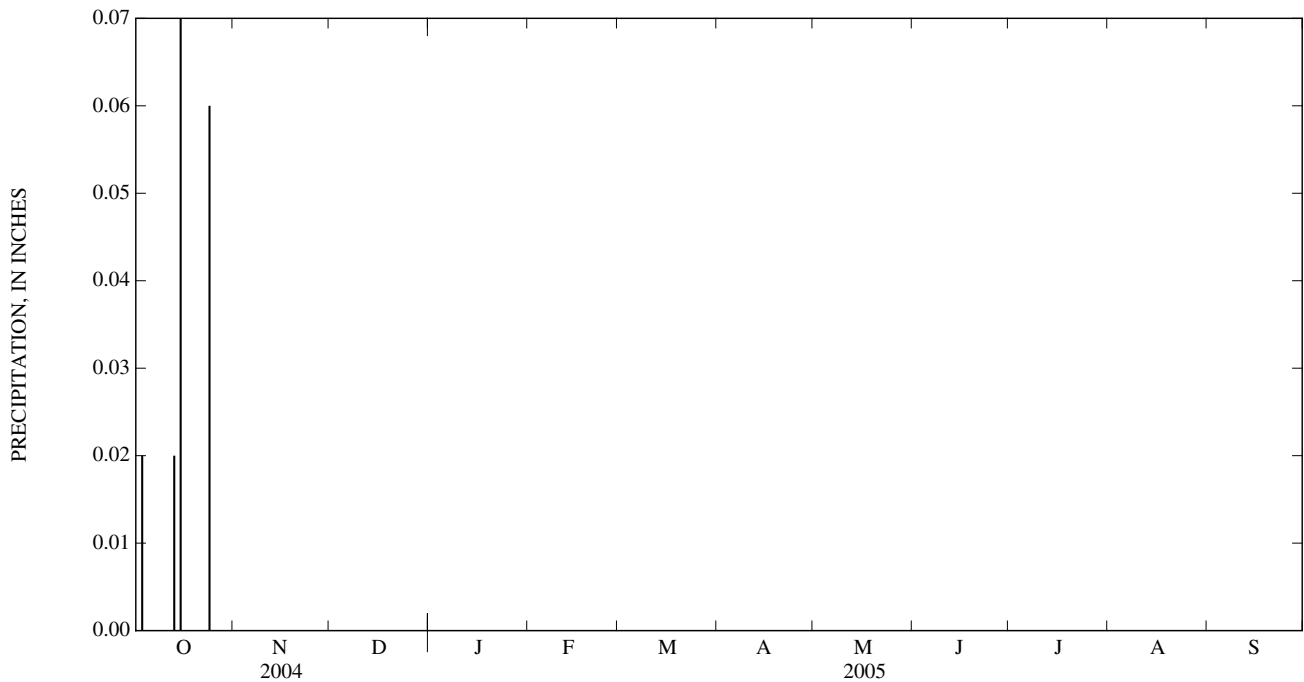
PERIOD OF RECORD.--September 2003 to October 2004.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

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	0.00	---	---	---	---	---	---	---	---	---	---	---
2	0.00	---	---	---	---	---	---	---	---	---	---	---
3	0.02	---	---	---	---	---	---	---	---	---	---	---
4	0.00	---	---	---	---	---	---	---	---	---	---	---
5	0.00	---	---	---	---	---	---	---	---	---	---	---
6	0.00	---	---	---	---	---	---	---	---	---	---	---
7	0.00	---	---	---	---	---	---	---	---	---	---	---
8	0.00	---	---	---	---	---	---	---	---	---	---	---
9	0.00	---	---	---	---	---	---	---	---	---	---	---
10	0.00	---	---	---	---	---	---	---	---	---	---	---
11	0.00	---	---	---	---	---	---	---	---	---	---	---
12	0.00	---	---	---	---	---	---	---	---	---	---	---
13	0.02	---	---	---	---	---	---	---	---	---	---	---
14	0.00	---	---	---	---	---	---	---	---	---	---	---
15	0.07	---	---	---	---	---	---	---	---	---	---	---
16	0.00	---	---	---	---	---	---	---	---	---	---	---
17	0.00	---	---	---	---	---	---	---	---	---	---	---
18	0.00	---	---	---	---	---	---	---	---	---	---	---
19	0.00	---	---	---	---	---	---	---	---	---	---	---
20	0.00	---	---	---	---	---	---	---	---	---	---	---
21	0.00	---	---	---	---	---	---	---	---	---	---	---
22	0.00	---	---	---	---	---	---	---	---	---	---	---
23	0.00	---	---	---	---	---	---	---	---	---	---	---
24	0.06	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL	---	---	---	---	---	---	---	---	---	---	---	---



GROUND-WATER LEVELS

SWAIN COUNTY

352519083272401. Local number, NC-219; County number, SW-036.

LOCATION.--Lat 35°29'19", long 83°27'23", Hydrologic Unit 06010203, in Bryson City, 0.75 mi southwest of intersection Fontana Dam road and Tuskasegee River. Owner: Wallace Company of North Carolina.

AQUIFER.--Felsic Gneiss.

WELL CHARACTERISTICS.--Drilled observation well, depth 555 ft, diameter 10 in.

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

DATUM.--Land-surface datum is 1,719.00 ft above NGVD of 1929 (levels by DENR). Measuring point: Top of instrument shelf, 6.90 ft above land-surface datum.

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

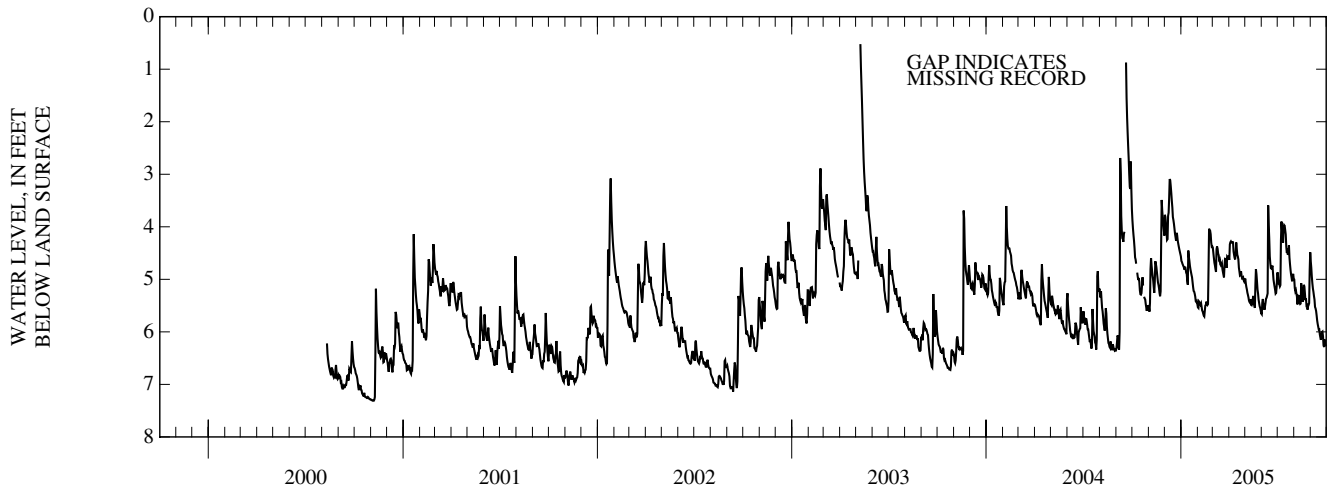
PERIOD OF RECORD.--August 2000 to current year. Records from February 1965 to March 1999 are unpublished and available in the files of the Division of Water Quality, DENR.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 0.86 ft above land-surface datum, Sept. 18, 2004; lowest water level recorded, 7.31 ft below land-surface datum, Nov. 4-7, 2000.

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

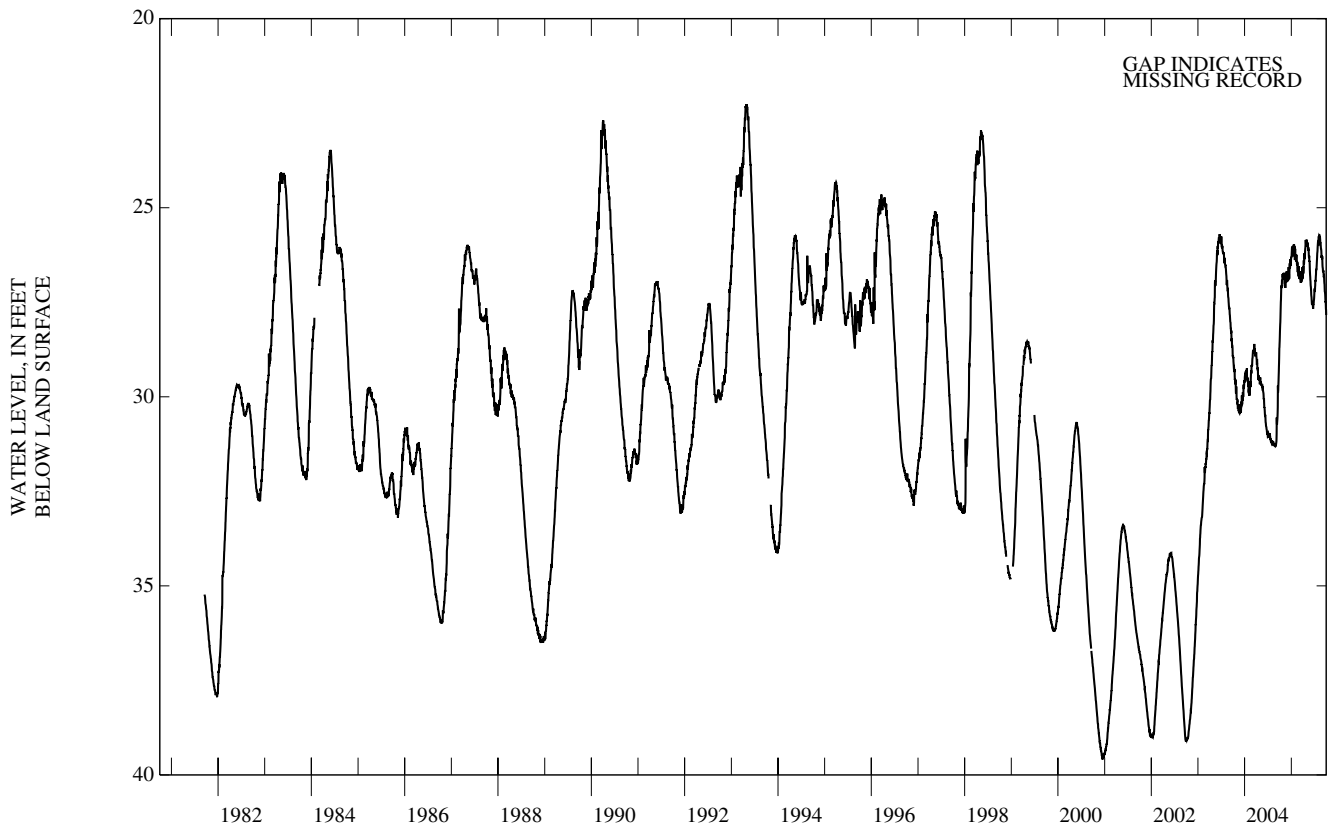
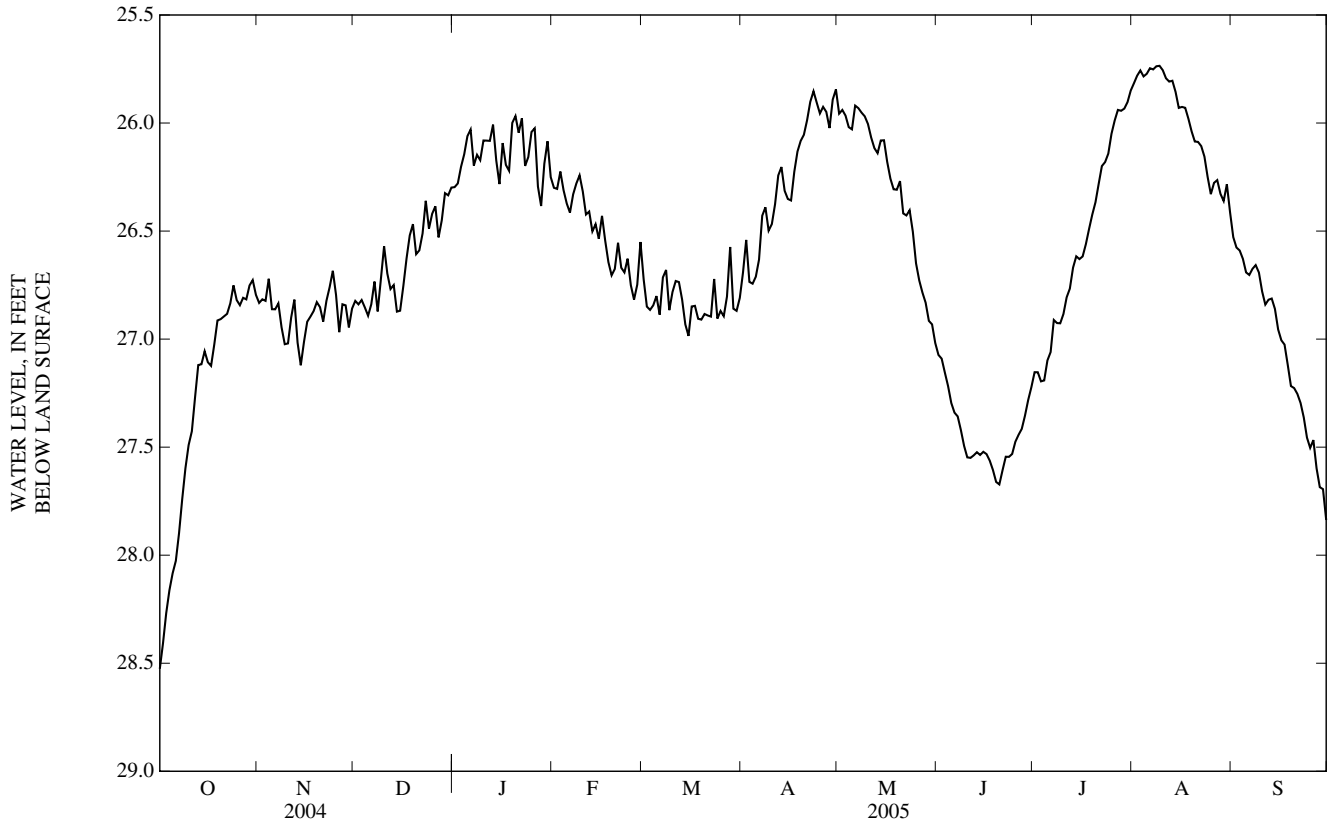
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.87	5.53	3.77	4.65	5.53	4.39	4.63	4.99	5.66	4.87	5.00	4.66
2	4.03	5.62	3.81	4.67	5.55	4.50	4.33	5.08	5.44	5.01	5.17	4.78
3	4.15	5.45	3.96	4.71	5.42	4.59	4.29	5.14	5.37	5.09	5.23	4.95
4	4.27	4.80	4.09	4.73	5.44	4.68	4.28	5.19	5.48	5.09	5.20	5.08
5	4.41	4.60	4.25	4.76	5.47	4.74	4.30	5.26	5.48	5.13	5.27	5.17
6	4.58	4.74	4.23	4.78	5.49	4.81	4.29	5.30	5.58	5.11	5.33	5.24
7	4.62	4.84	3.79	4.82	5.46	4.86	4.29	5.34	5.52	4.26	5.48	5.32
8	4.70	4.94	3.73	4.76	5.53	4.43	4.29	5.41	5.45	3.90	5.31	5.38
9	---	5.02	3.45	4.81	5.59	4.38	4.47	5.43	5.37	4.07	5.31	5.53
10	4.87	5.14	3.09	4.88	5.61	4.42	4.54	5.45	5.35	4.14	5.32	5.55
11	4.95	5.26	3.11	4.90	5.65	4.51	4.59	5.38	5.31	4.30	5.44	5.60
12	5.01	5.05	3.23	5.03	5.69	4.54	4.62	5.48	5.27	4.02	5.47	5.69
13	4.97	4.66	3.36	5.10	5.70	4.63	4.50	5.49	3.59	3.97	5.46	5.78
14	5.05	4.70	3.51	4.45	5.60	4.61	4.30	5.46	3.96	3.98	5.07	5.85
15	5.21	4.77	3.63	4.57	5.50	4.71	4.42	5.38	4.22	4.06	5.20	5.90
16	5.28	4.86	3.81	4.64	5.49	4.73	4.53	5.32	4.56	4.15	5.33	5.95
17	5.29	4.96	3.87	4.74	5.42	4.71	4.57	5.47	4.70	4.38	5.43	5.95
18	5.26	5.06	3.95	4.81	5.47	4.69	4.62	5.49	4.79	4.50	5.32	6.05
19	5.12	5.11	4.03	4.86	5.49	4.80	4.78	5.54	4.79	4.47	5.10	6.10
20	4.96	5.17	4.13	4.91	5.47	4.86	4.85	5.10	4.78	4.53	5.14	6.15
21	5.12	5.26	4.20	4.96	4.77	4.91	4.93	4.81	4.74	4.50	5.26	6.08
22	---	5.32	4.27	5.05	4.04	4.96	4.92	4.90	4.87	4.35	5.40	6.00
23	5.33	5.23	4.12	5.15	4.07	4.73	4.85	5.04	5.01	4.58	5.36	5.99
24	5.37	4.31	4.16	5.22	4.08	4.61	4.93	5.20	5.08	4.71	5.50	6.08
25	5.38	3.49	4.26	5.23	4.14	4.61	4.98	5.27	5.14	4.82	5.49	6.26
26	5.47	3.69	4.32	5.27	4.30	4.72	4.98	5.39	5.20	4.91	5.58	6.29
27	5.53	3.84	4.37	5.33	4.38	4.78	4.96	5.45	5.27	4.97	5.51	6.14
28	5.60	3.94	4.42	5.42	4.37	4.57	5.02	5.51	5.26	5.04	5.49	6.22
29	5.50	4.06	4.47	5.43	---	4.58	5.04	5.54	5.13	4.93	5.45	6.25
30	5.54	4.17	4.52	5.42	---	4.57	5.02	5.60	4.89	4.89	4.83	6.27
31	5.55	---	4.56	5.48	---	4.58	---	5.65	---	4.99	4.49	---

WTR YR 2005 MEAN 4.92 HIGH 3.09 LOW 6.29





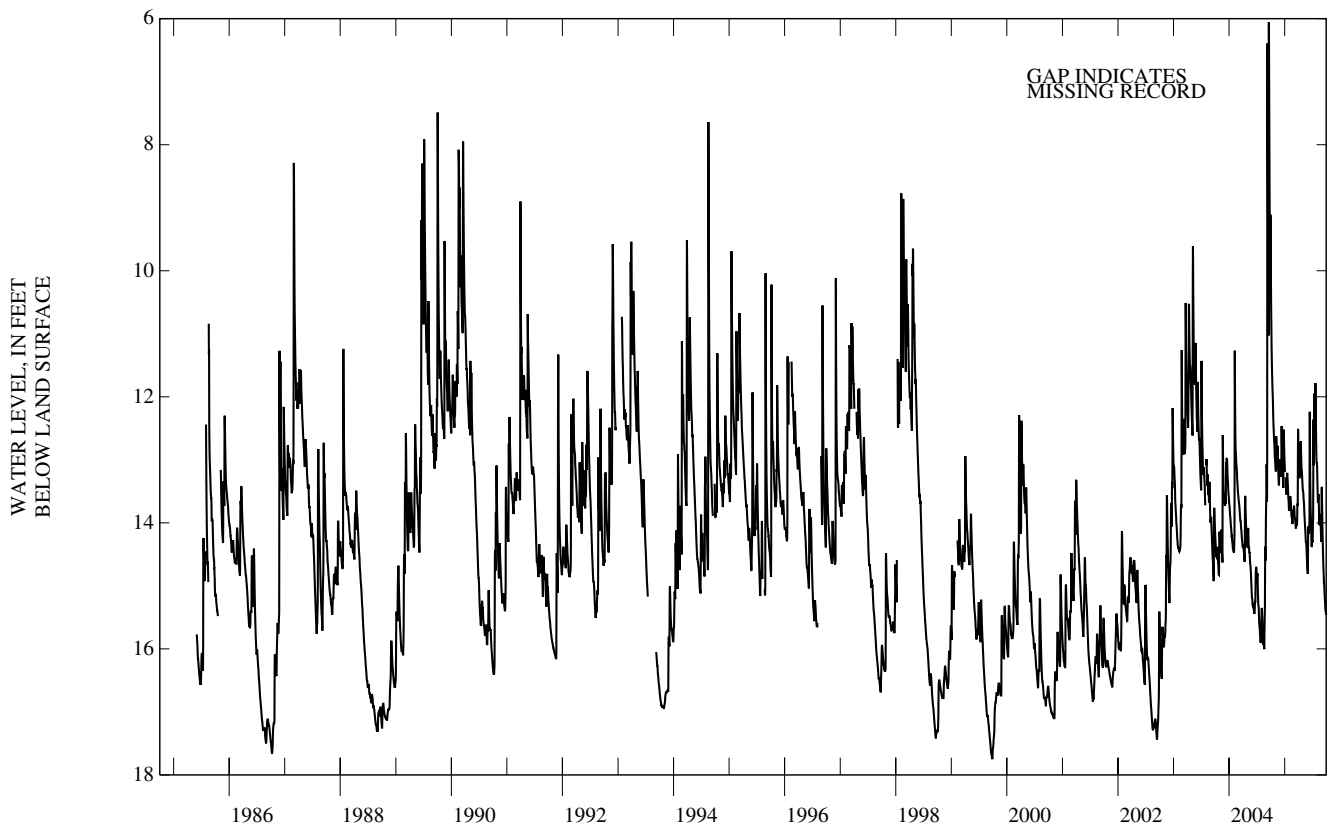
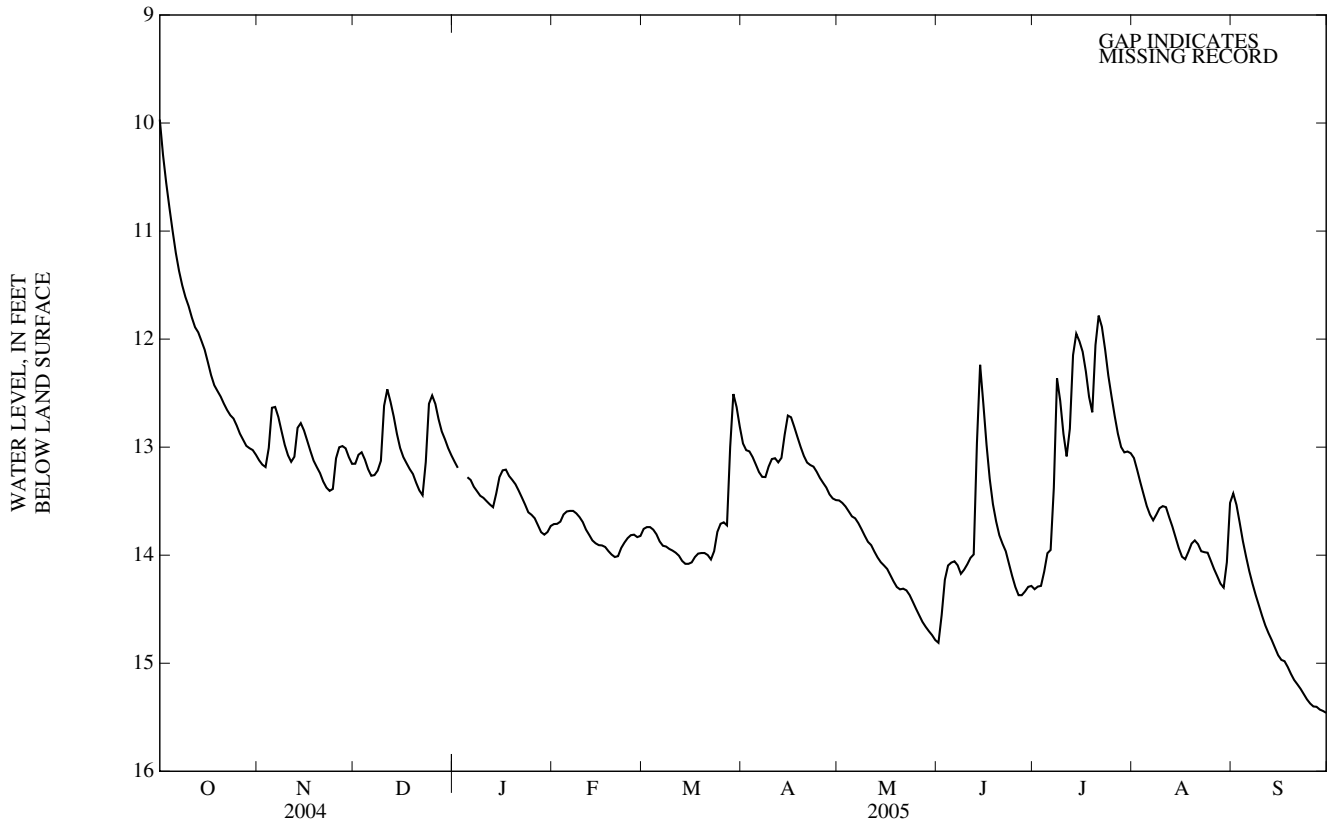
GROUND-WATER LEVELS  
TRANSYLVANIA COUNTY—Continued  
351808082374302. Local number NC-144; County number, TR-065.





GROUND-WATER LEVELS  
TRANSYLVANIA COUNTY—Continued

351709082434101. Local number, NC-147; County number, TR-066.



WAKE COUNTY

354356078403501. County number, WK-277; DENR Lake Wheeler Research Station MW-1S (Regolith well).

LOCATION.--Lat 35°43'57", long 78°40'35", Hydrologic Unit 03020201, .6 mi south of Tryon Road, .2 mi east of Lake Wheeler Road on North Carolina State University Research Farm. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Regolith (saprolitic Raleigh 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 5 to 20 ft.

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

DATUM.--Land-surface datum is 334.38 ft above NGVD of 1929. Measuring point: Top of 4-inch casing, 1.97. Instrument shelter removed June 17, 2004.

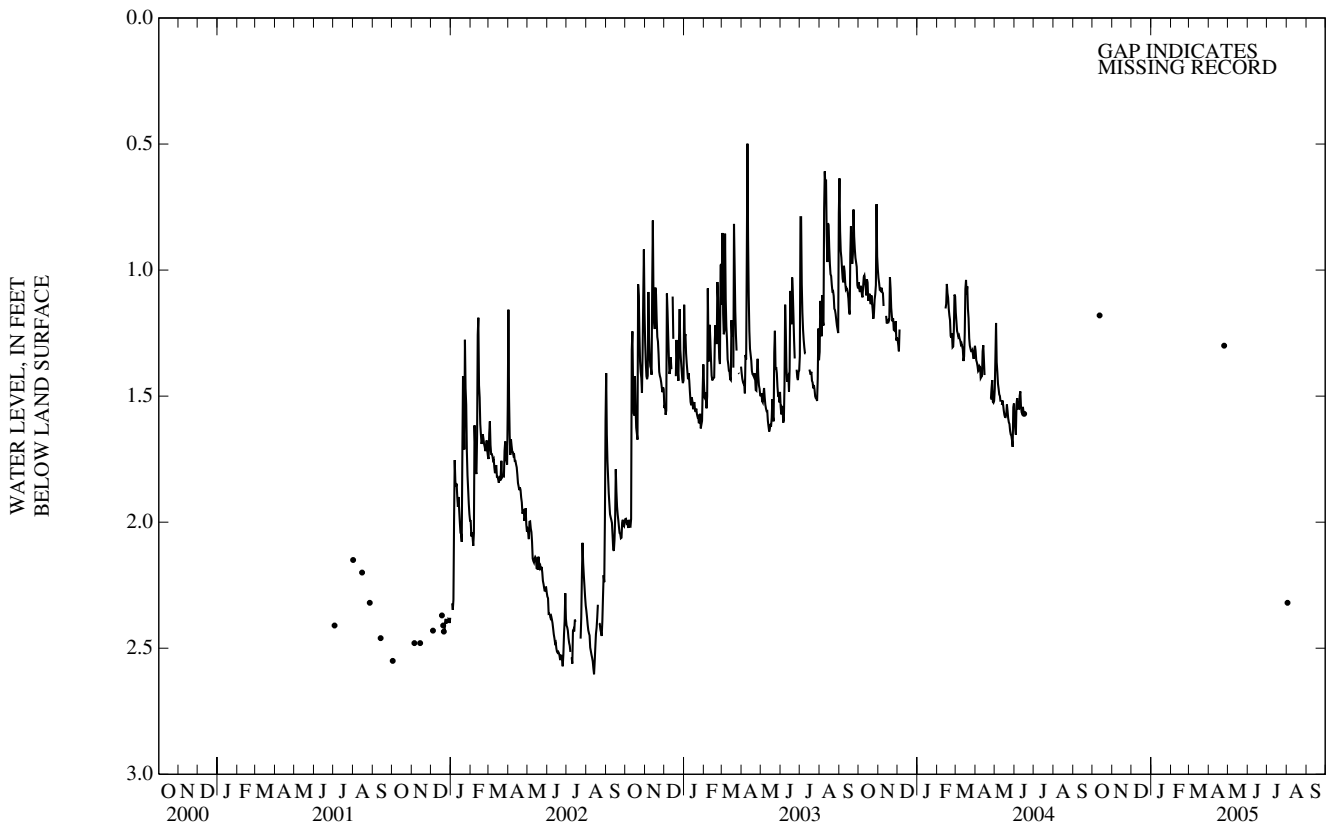
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--July 2001 to current year. Continuous record December 2001 to June 2004.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, -0.38 ft below land-surface datum, July 2, 2003; lowest water level recorded, 2.71 ft below land-surface datum, Aug. 13, 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
OCT 12	1.18	APR 25	1.30	AUG 02	2.32





GROUND-WATER LEVELS

WAKE COUNTY—Continued

354356078403502. County number, WK-278; DENR Lake Wheeler Research Station MW-11 (Transition zone well).

LOCATION.--Lat 35°43'56", long 78°40'35", Hydrologic Unit 03020201, .6 mi south of Tryon Road, .2 mi east of Lake Wheeler Road on North Carolina State University Research Farm. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Regolith (saprolitic Raleigh Gneiss).

WELL CHARACTERISTICS.--Drilled observation well, depth 41.5 ft, diameter 4 in., cased to 31.5 ft, screened interval from 31.5 to 41.5 ft, sand filter packed from 26.5 to 42 ft.

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

DATUM.--Land-surface datum is 335.36 ft above NGVD of 1929. Measuring point: Top of 4-inch casing, 1.91 ft above land-surface datum. Instrument shelter removed June 17, 2004.

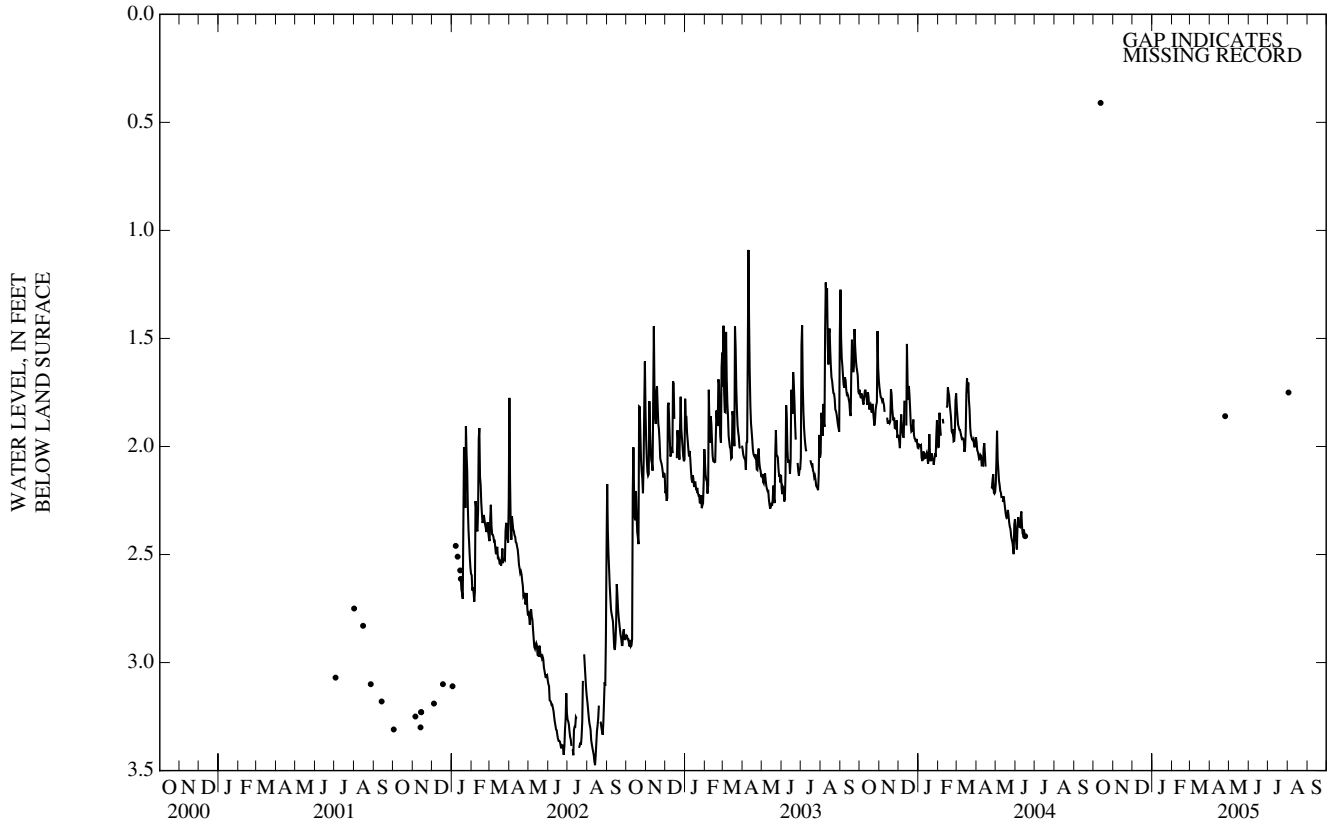
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--July 2001 to current year. Continuous record December 2001 to June 2004.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.41 ft below land-surface datum, Oct. 12, 2004; lowest water level recorded, 3.57 ft below land-surface datum, Aug. 13, 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
OCT 12	.41	APR 25	1.86	AUG 02	1.75



WAKE COUNTY—Continued

354356078403503. County number, WK-279; DENR Lake Wheeler Research Station MW-1D (Bedrock well).

LOCATION.--Lat 35°43'56", long 78°40'34", Hydrologic Unit 03020201, .6 mi south of Tryon Road, .2 mi east of Lake Wheeler Road on North Carolina State University Research Farm. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Raleigh Gneiss.

WELL CHARACTERISTICS.--Drilled observation well, depth 302 ft, diameter 6 in., cased to 47 ft, open hole from 47 to 302 ft.

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

DATUM.--Land-surface datum is 358.62 ft above NGVD of 1929. Measuring point: Top of 6-inch PVC, 1.84 ft above land-surface datum. Instrument shelter removed June 17, 2004.

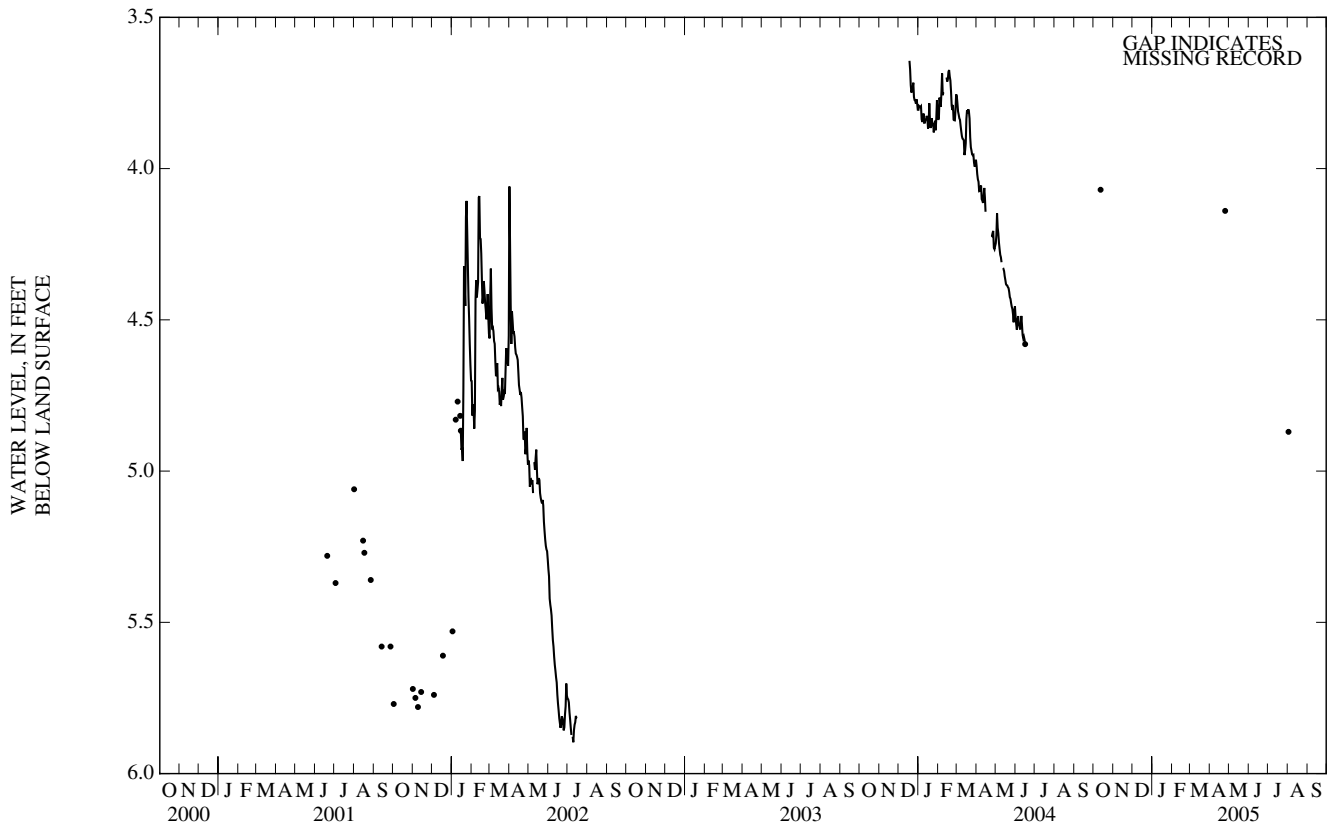
REMARKS.--Well is part of Piedmont/Mountains ground-water study. Inflatable packer installed on July 16, 2001 and water-level records stored as 354356078403504 (WK-279A) and 354356078403505 (WK279B). Packer set at 75 ft below land surface. Packer removed Nov. 13, 2003.

PERIOD OF RECORD.--June 2001 to July 2002, November 2003 to current year. Continuous record December 2001 to July 2002, November 2003 to June 2004. Periodic measurements made by DENR and U.S. Geological Survey, June 2001 to August 2004.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.28 ft below land-surface datum, Aug. 31, 2004; lowest water level recorded, 5.94 ft below land-surface datum, July 10, 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
OCT 12	4.07	APR 25	4.14	AUG 02	4.87



GROUND-WATER LEVELS

WAKE COUNTY—Continued

354359078403101. County number, WK-280; DENR Lake Wheeler Research Station MW-2S (Regolith well).

LOCATION.--Lat 35°44'00", long 78°40'31", Hydrologic Unit 03020201, .6 mi south of Tryon Road, .2 mi east of Lake Wheeler Road on North Carolina State University Research Farm. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Regolith (saprolitic Raleigh Gneiss).

WELL CHARACTERISTICS.--Drilled observation well, depth 40 ft, diameter 4 in., cased to 20 ft, screened interval from 20 to 40 ft, sand filter packed from 17 to 40 ft.

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

DATUM.--Land-surface datum is 362 ft above NGVD of 1929. Measuring point: Top of 4-inch casing, 1.81 ft above land-surface datum.

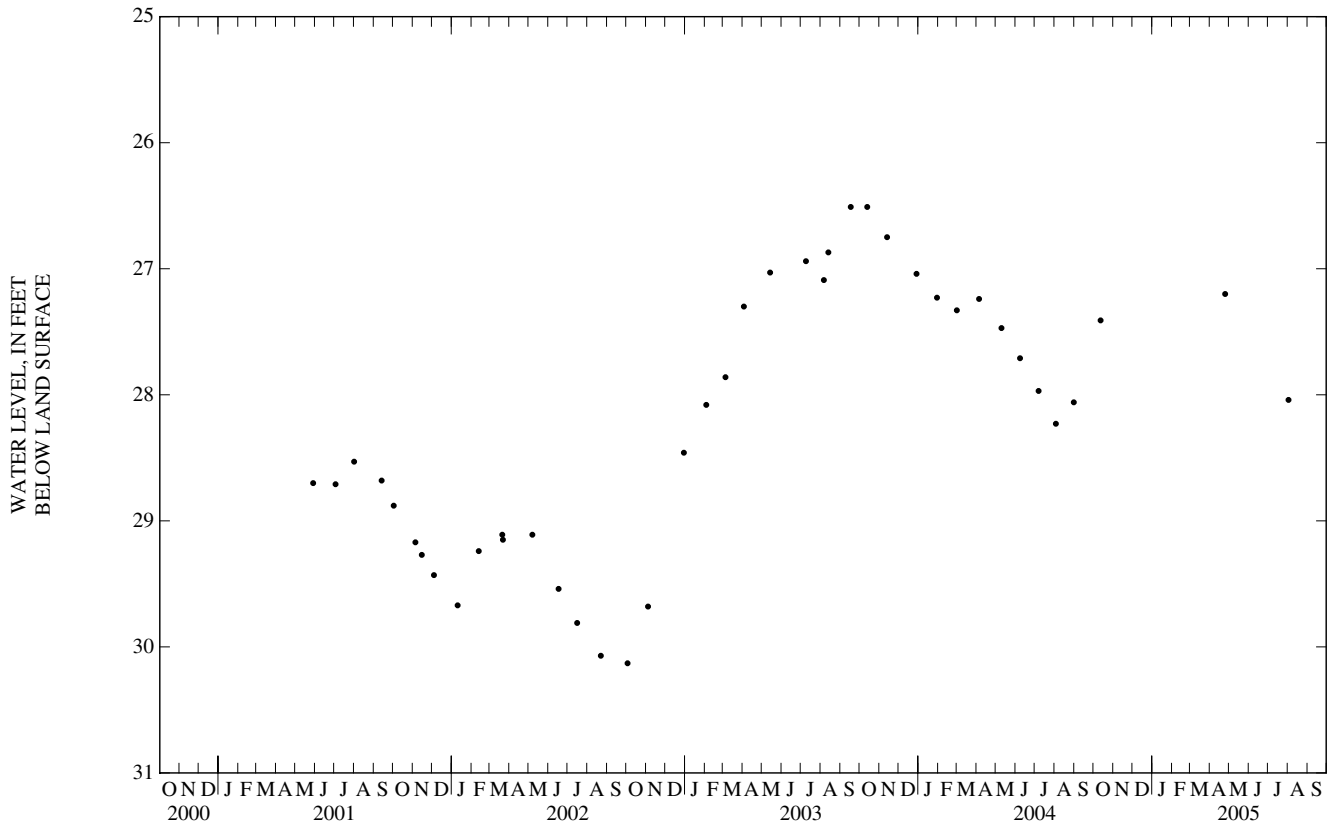
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.51 ft below land-surface datum, Sept. 17, 2003; lowest water level measured, 30.13 ft below land-surface datum, Oct. 3, 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
OCT 12	27.41	APR 25	27.20	AUG 02	28.04



WAKE COUNTY—Continued

354359078403102. County number, WK-281; DENR Lake Wheeler Research Station MW-2I (Intermediate well).

LOCATION.--Lat 35°44'00", long 78°40'32", Hydrologic Unit 03020201, .6 mi south of Tryon Road, .2 mi east of Lake Wheeler Road on North Carolina State University Research Farm. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Transition zone (Raleigh Gneiss).

WELL CHARACTERISTICS.--Drilled observation well, depth 50 ft, diameter 4 in., cased to 40 ft, screened interval from 40 to 50 ft, sand filter packed from 38 to 50 ft.

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

DATUM.--Land-surface datum is 361.19 ft above NGVD of 1929. Measuring point: Top of 4-inch casing, 1.82 ft above land-surface datum.

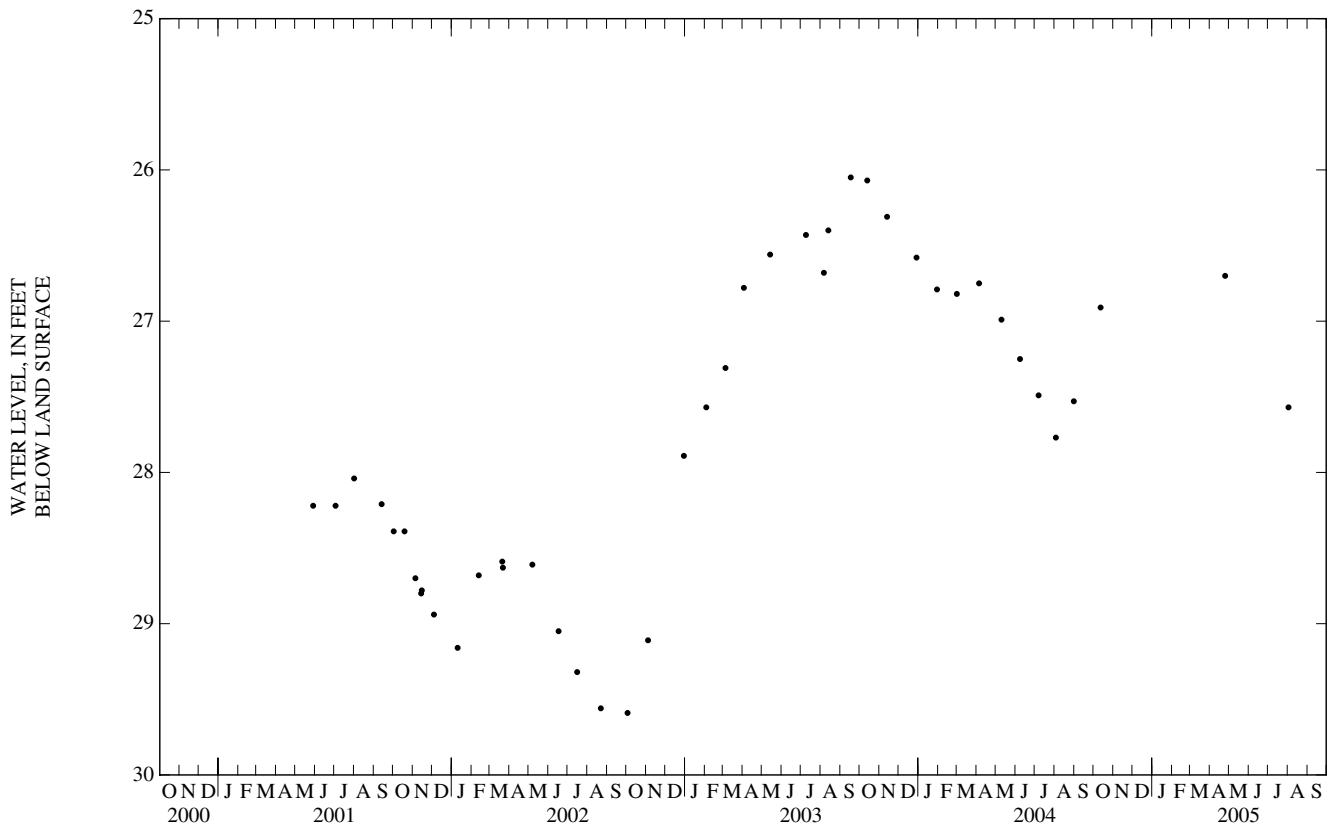
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.05 ft below land-surface datum, Sept. 17, 2003; lowest water level measured 29.59 ft below land-surface datum, Oct. 3, 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
OCT 12	26.91	APR 25	26.70	AUG 02	27.57



GROUND-WATER LEVELS

WAKE COUNTY—Continued

354359078403103. County number, WK-282; DENR Lake Wheeler Research Station MW-2T (Transition zone well).

LOCATION.--Lat 35°43'59", long 78°40'32", Hydrologic Unit 03020201, .6 mi south of Tryon Road, .2 mi east of Lake Wheeler Road on North Carolina State University Research Farm. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Transition zone (Raleigh Gneiss).

WELL CHARACTERISTICS.--Drilled observation well, depth 80 ft, diameter 6 in., cased to 50 ft, open hole from 50 to 80 ft.

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

DATUM.--Land-surface datum is 360.44 ft above NGVD of 1929. Measuring point: Top of 4-inch casing, 1.88 ft above land-surface datum.

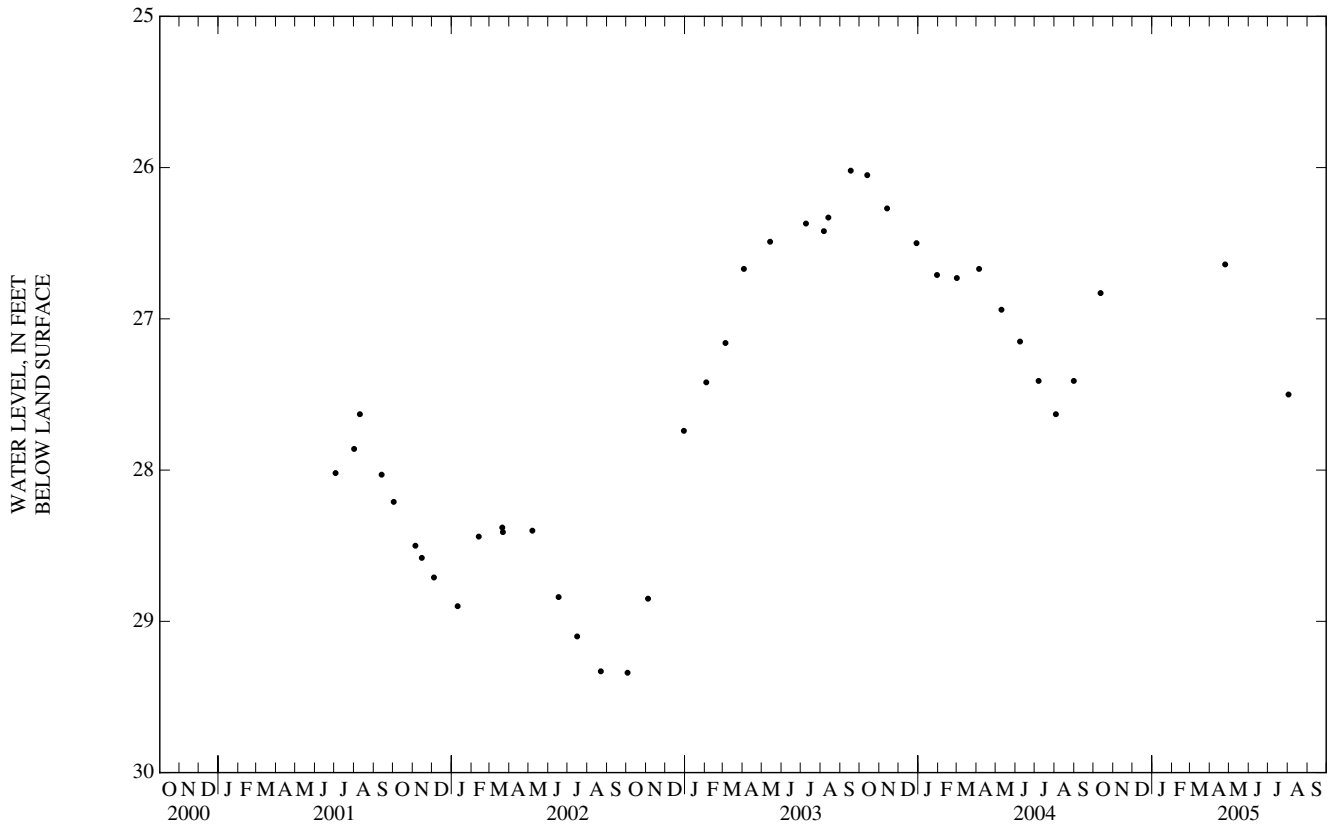
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.02 ft below land-surface datum, Sept. 17, 2003; lowest water level measured, 29.34 ft below land-surface datum, Oct. 3, 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
OCT 12	26.83	APR 25	26.64	AUG 02	27.50



WAKE COUNTY—Continued

354359078403104. County number, WK-283; DENR Lake Wheeler Research Station MW-2D (Bedrock well).

LOCATION.--Lat 35°43'59", long 78°40'32", Hydrologic Unit 03020201, .6 mi south of Tryon Road, .2 mi east of Lake Wheeler Road on North Carolina State University Research Farm. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Raleigh Gneiss.

WELL CHARACTERISTICS.--Drilled observation well, depth 601 ft, diameter 6 in., cased to 80 ft, open hole from 80 to 447 ft, hole collapsed from 447 to 601 ft.

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

DATUM.--Land-surface datum is 359.77 ft above NGVD of 1929. Measuring point: Top of casing, 1.90 ft above land-surface datum.

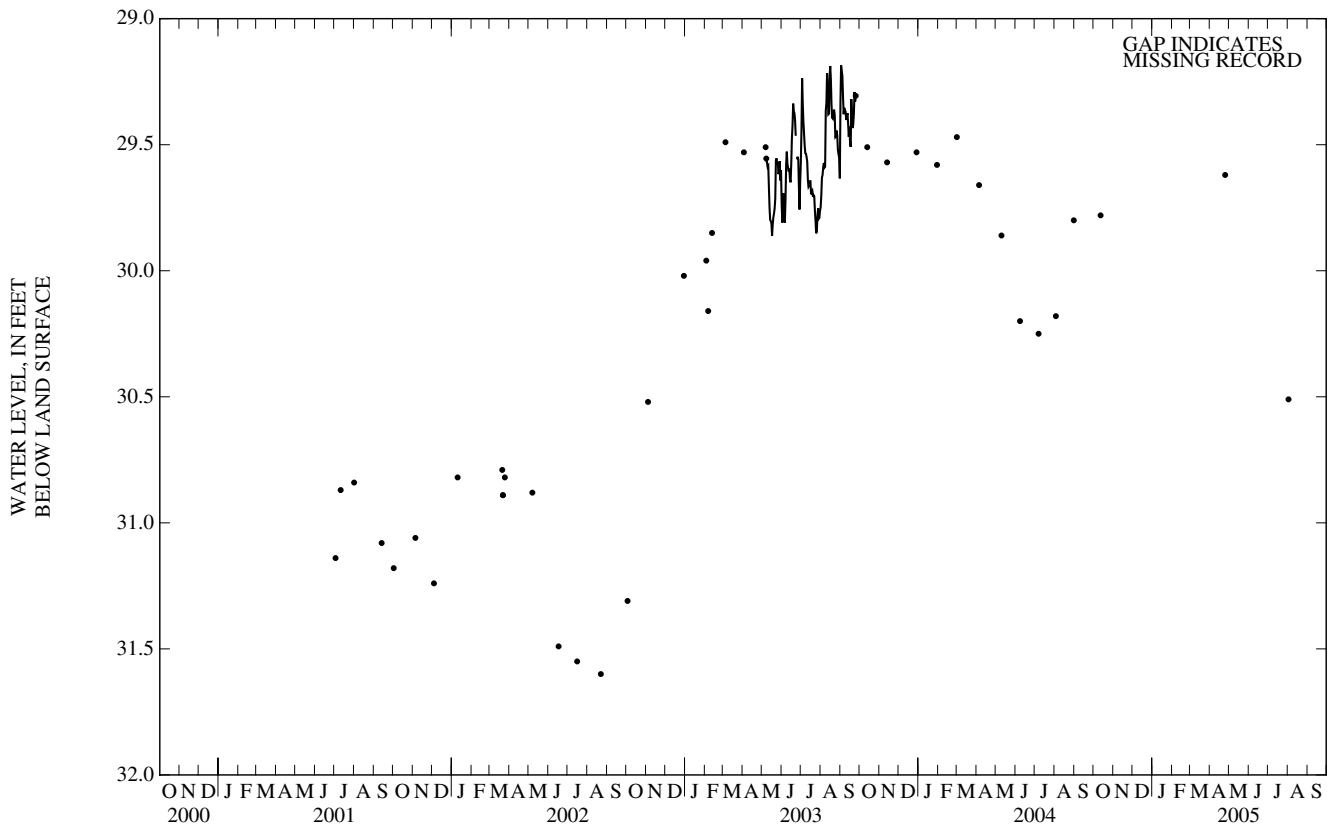
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--July 2001 to current year. Continuous record May 2003 to September 2003.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 29.02 ft below land-surface datum, Sept. 18, 2003; lowest water level measured, 31.60 ft below land-surface datum, Aug. 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
OCT 12	29.78	APR 25	29.62	AUG 02	30.51



GROUND-WATER LEVELS

WAKE COUNTY—Continued

354404078403101. County number, WK-284; DENR Lake Wheeler Research Station MW-3S (Regolith well).

LOCATION.--Lat 35°44'04", long 78°40'31", Hydrologic Unit 03020201, .6 mi south of Tryon Road, .2 mi east of Lake Wheeler Road on North Carolina State University Research Farm. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Regolith (saprolitic Raleigh Gneiss).

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 17 to 35 ft.

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

DATUM.--Land-surface datum is 375.02 ft above NGVD of 1929. Measuring point: Top of 4-inch casing, 1.91 ft above land-surface datum.

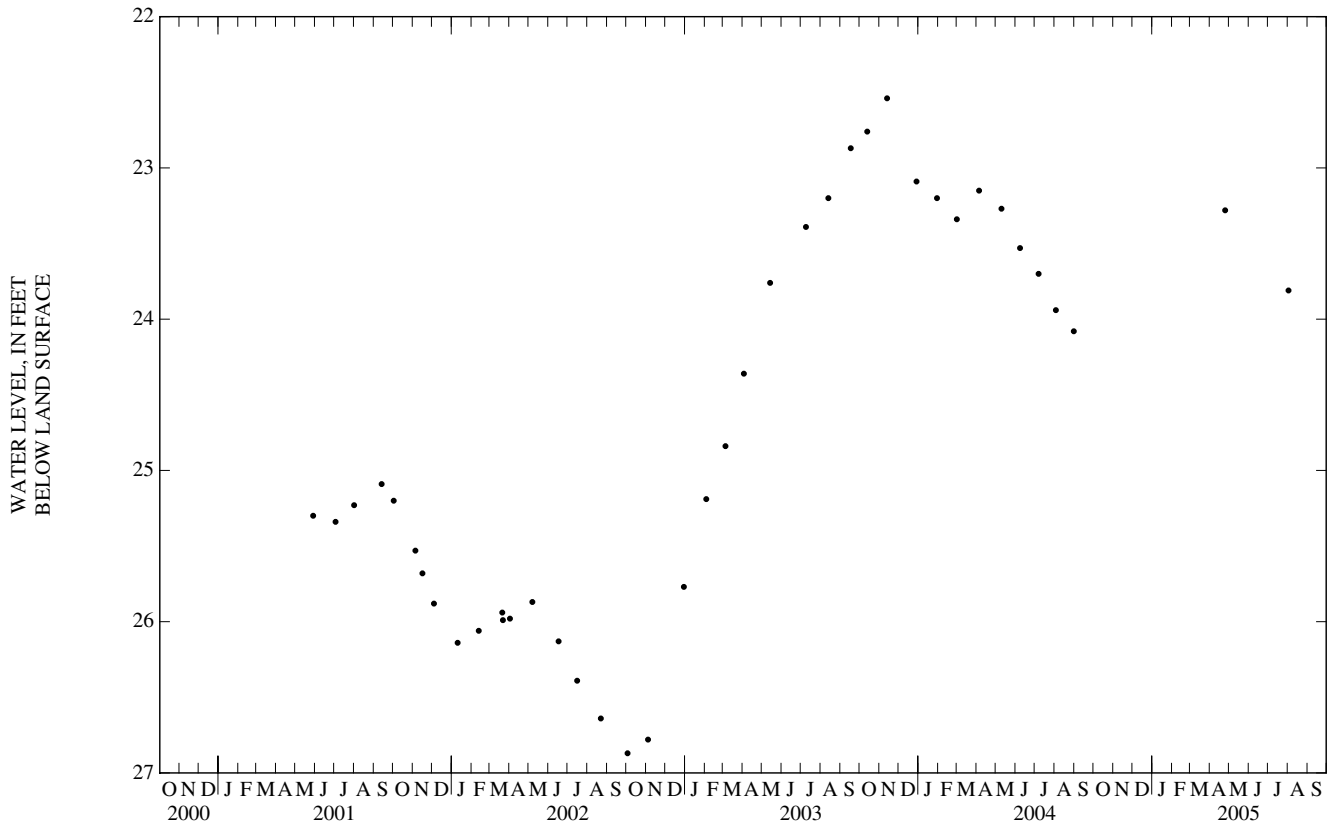
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.54 ft below land-surface datum, Nov. 13, 2004; lowest water level measured, 26.87 ft below land-surface datum, Oct. 3, 2002.

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

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 25	23.28	AUG 02	23.81



WAKE COUNTY—Continued

354404078403102. County number, WK-285; DENR Lake Wheeler Research Station MW-3I (Transition zone well).

LOCATION.--Lat 35°44'05", long 78°40'31", Hydrologic Unit 03020201, .6 mi south of Tryon Road, .2 mi east of Lake Wheeler Road on North Carolina State University Research Farm. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Transition zone (Raleigh Gneiss).

WELL CHARACTERISTICS.--Drilled observation well, depth 60 ft, diameter 4 in., cased to 45 ft, screened interval from 45 to 60 ft, sand filter packed from 33 to 60 ft.

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

DATUM.--Land-surface datum is 375.49 ft above NGVD of 1929. Measuring point: Top of 4-inch casing, 1.91 ft above land-surface datum.

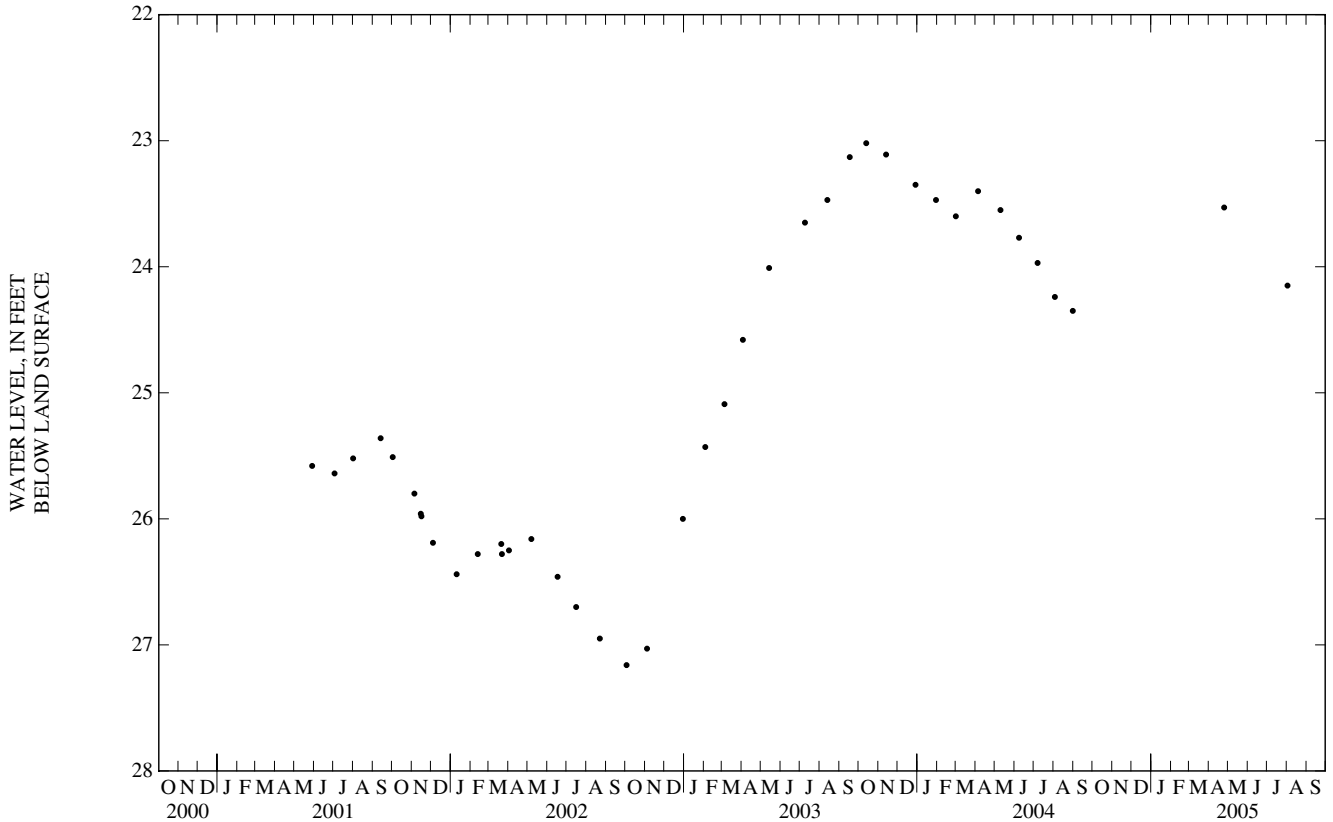
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.02 ft below land-surface datum, Oct. 13, 2003; lowest water level measured, 27.16 ft below land-surface datum, Oct. 3, 2002.

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

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 25	23.53	AUG 02	24.15





GROUND-WATER LEVELS

WAKE COUNTY—Continued

354404078403103. County number, WK-286; DENR Lake Wheeler Research Station MW-3D (Bedrock well).

LOCATION.--Lat 35°44'05", long 78°40'31", Hydrologic Unit 03020201, .6 mi south of Tryon Road, .2 mi east of Lake Wheeler Road on North Carolina State University Research Farm. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Raleigh Gneiss.

WELL CHARACTERISTICS.--Drilled observation well, depth 301 ft, diameter 6 in., cased to 66 ft, open hole from 66 to 301 ft.

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

DATUM.--Land-surface datum is 376.35 ft above NGVD of 1929. Measuring point: Top of 6-inch casing, 1.73 ft above land-surface datum.

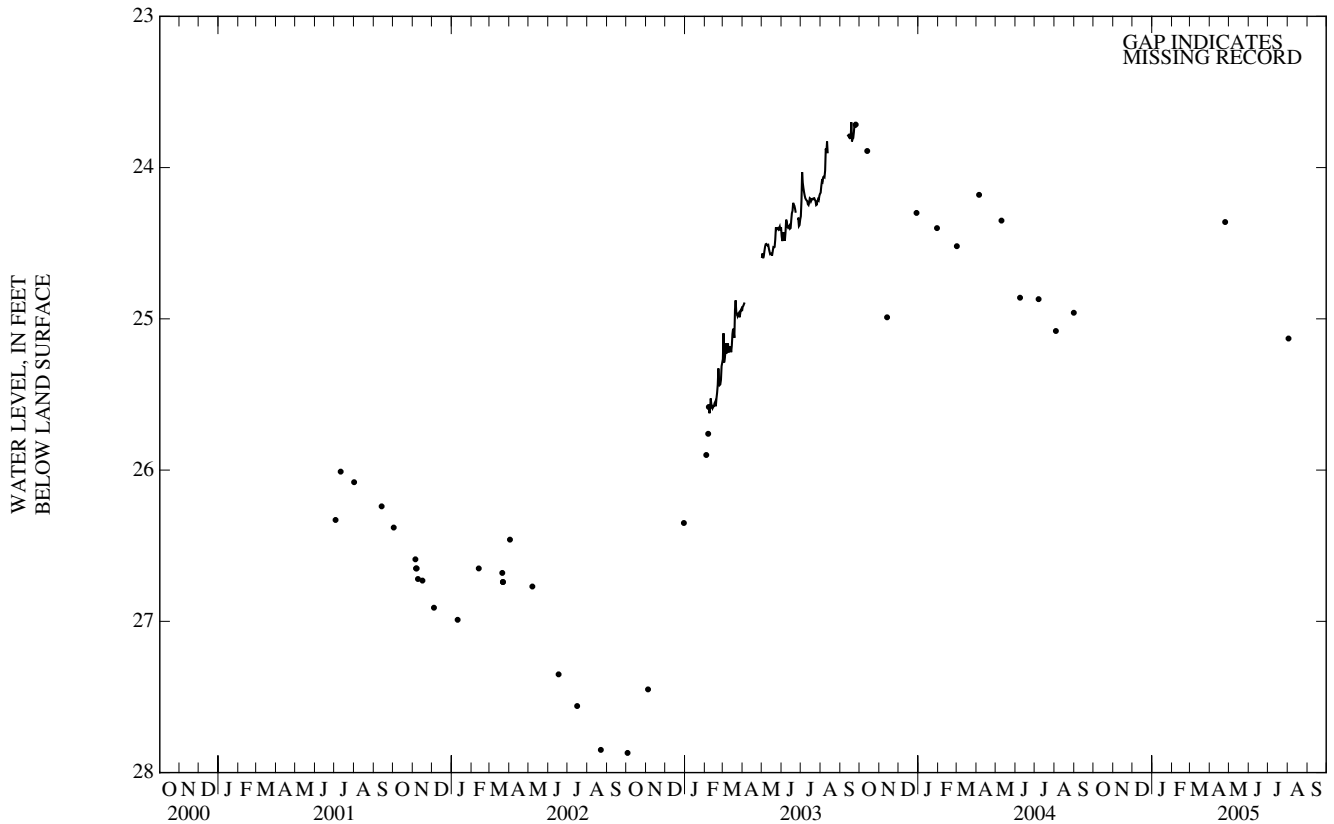
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--July 2001 to current year. Continuous record February 2003 to September 2003.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 23.55 ft below land-surface datum, Sept. 18, 2003; lowest water level measured 27.87 ft below land-surface datum, Oct. 3, 2002.

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

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 25	24.36	AUG 02	25.13



WAKE COUNTY—Continued

354400078403401. County number, WK-288; DENR Lake Wheeler Research Station PZ-1.

LOCATION.--Lat 35°44'00", long 78°40'34", Hydrologic Unit 03020201, .6 mi south of Tryon Road, .2 mi east of Lake Wheeler Road on North Carolina State University Research Farm. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Regolith (saprolitic Raleigh Gneiss).

WELL CHARACTERISTICS.--Drilled observation well, depth 50 ft, diameter 2 in., cased to 30 ft, screened interval from 30 to 50 ft.

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

DATUM.--Land-surface datum is 354.87 ft above NGVD of 1929. Measuring point: Top of 2-inch casing, 1.97 ft above land-surface datum.

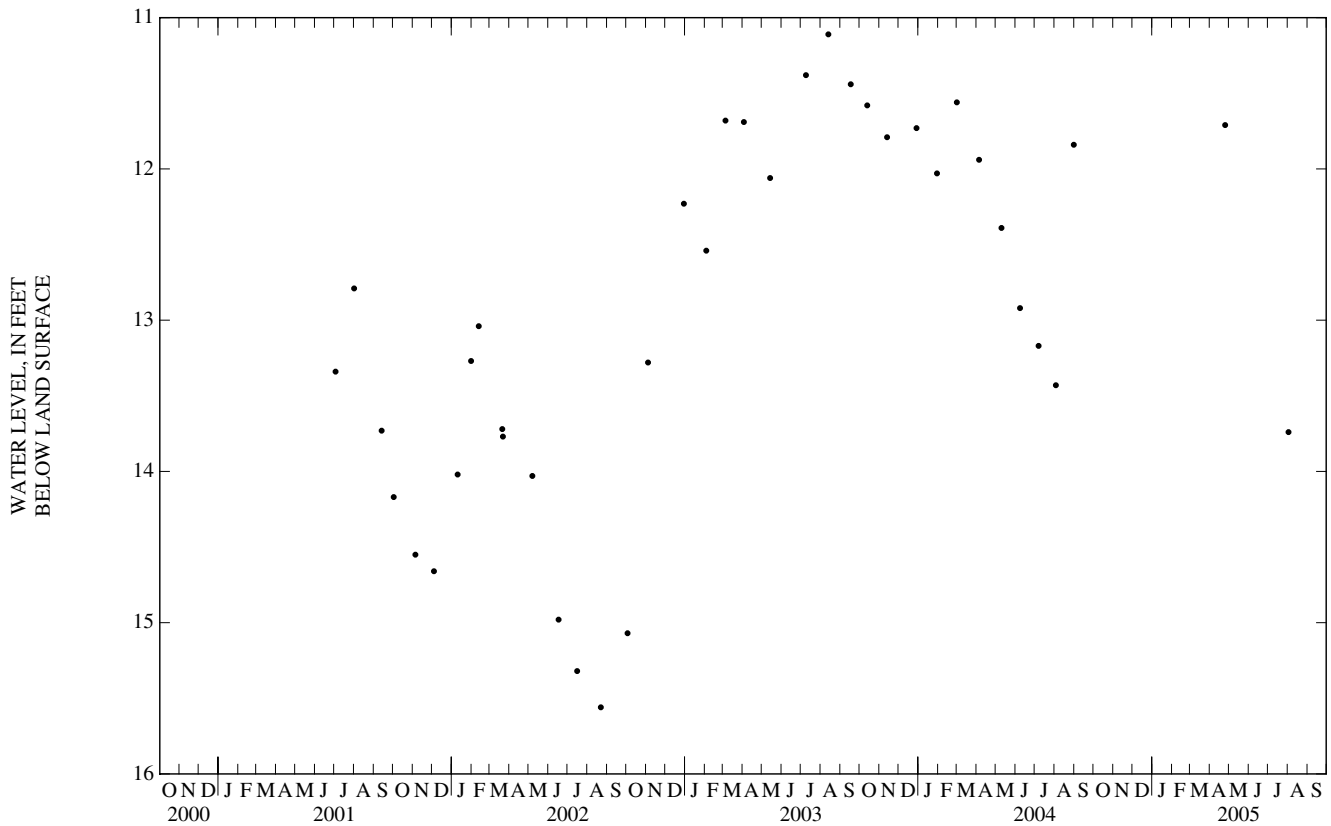
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.11 ft below land-surface datum, Aug. 13, 2003; lowest water level measured, 15.56 ft below land-surface datum, Aug. 22, 2002.

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

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 25	11.71	AUG 02	13.74



GROUND-WATER LEVELS

WAKE COUNTY—Continued

354402078403401. County number, WK-289; DENR Lake Wheeler Research Station PZ-2.

LOCATION.--Lat 35°44'02", long 78°40'34", Hydrologic Unit 03020201, .6 mi south of Tryon Road, .2 mi east of Lake Wheeler Road on North Carolina State University Research Farm. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Regolith (saprolitic Raleigh Gneiss).

WELL CHARACTERISTICS.--Drilled observation well, depth 37 ft, diameter 2 in., cased to 17 ft, screened interval from 17 to 37 ft.

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

DATUM.--Land-surface datum is 359.09 ft above NGVD of 1929. Measuring point: Top of 2-inch casing, 1.75 ft above land-surface datum.

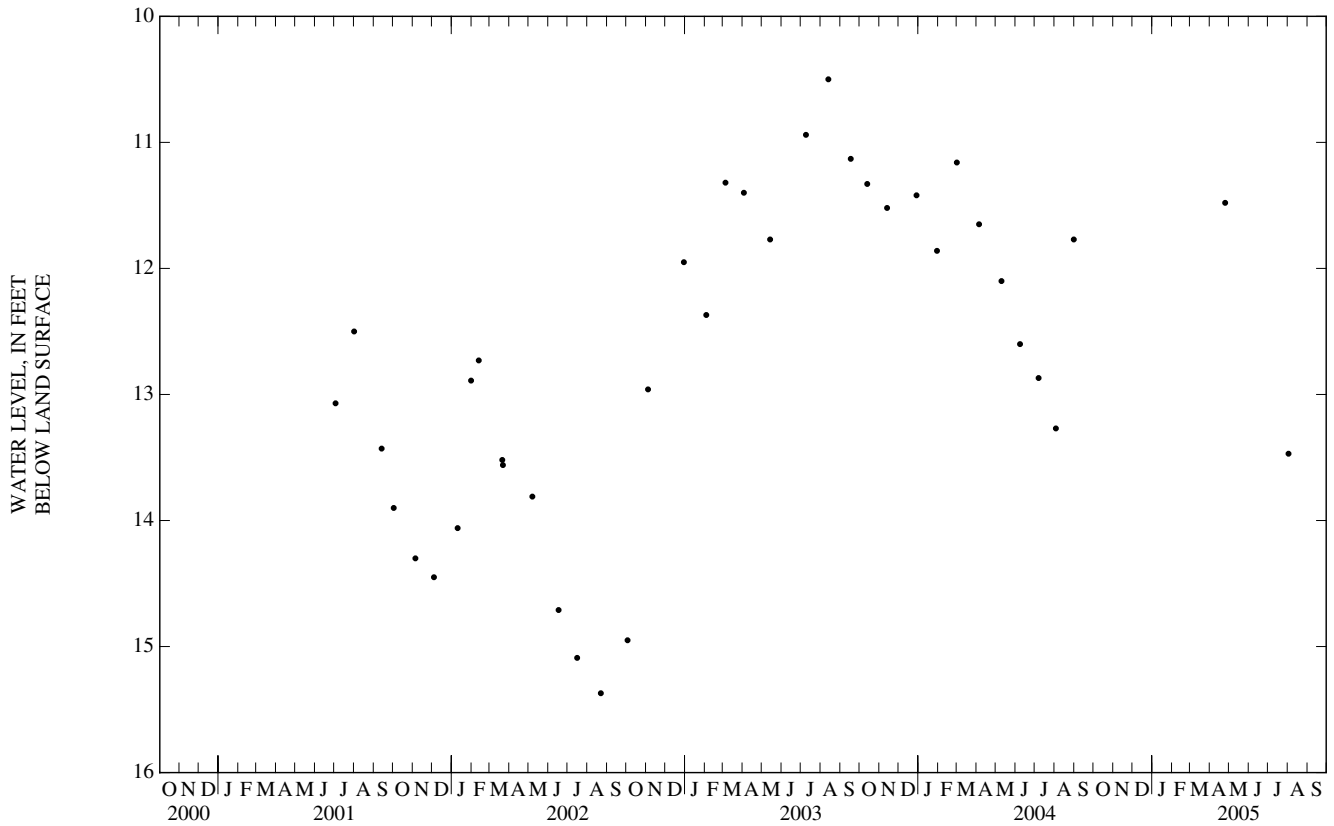
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.50 ft below land-surface datum, Aug. 13, 2003; lowest water level measured, 15.37 ft below land-surface datum, Aug. 22, 2002.

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

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 25	11.48	AUG 02	13.47



WAKE COUNTY—Continued

354400078403301. County number, WK-290; DENR Lake Wheeler Research Station PZ-3.

LOCATION.--Lat 35°44'01", long 78°40'34", Hydrologic Unit 03020201, .6 mi south of Tryon Road, .2 mi east of Lake Wheeler Road on North Carolina State University Research Farm. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Regolith (saprolitic Raleigh Gneiss).

WELL CHARACTERISTICS.--Drilled observation well, depth 47 ft, diameter 2 in., cased to 32 ft, screened interval from 32 to 47 ft.

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

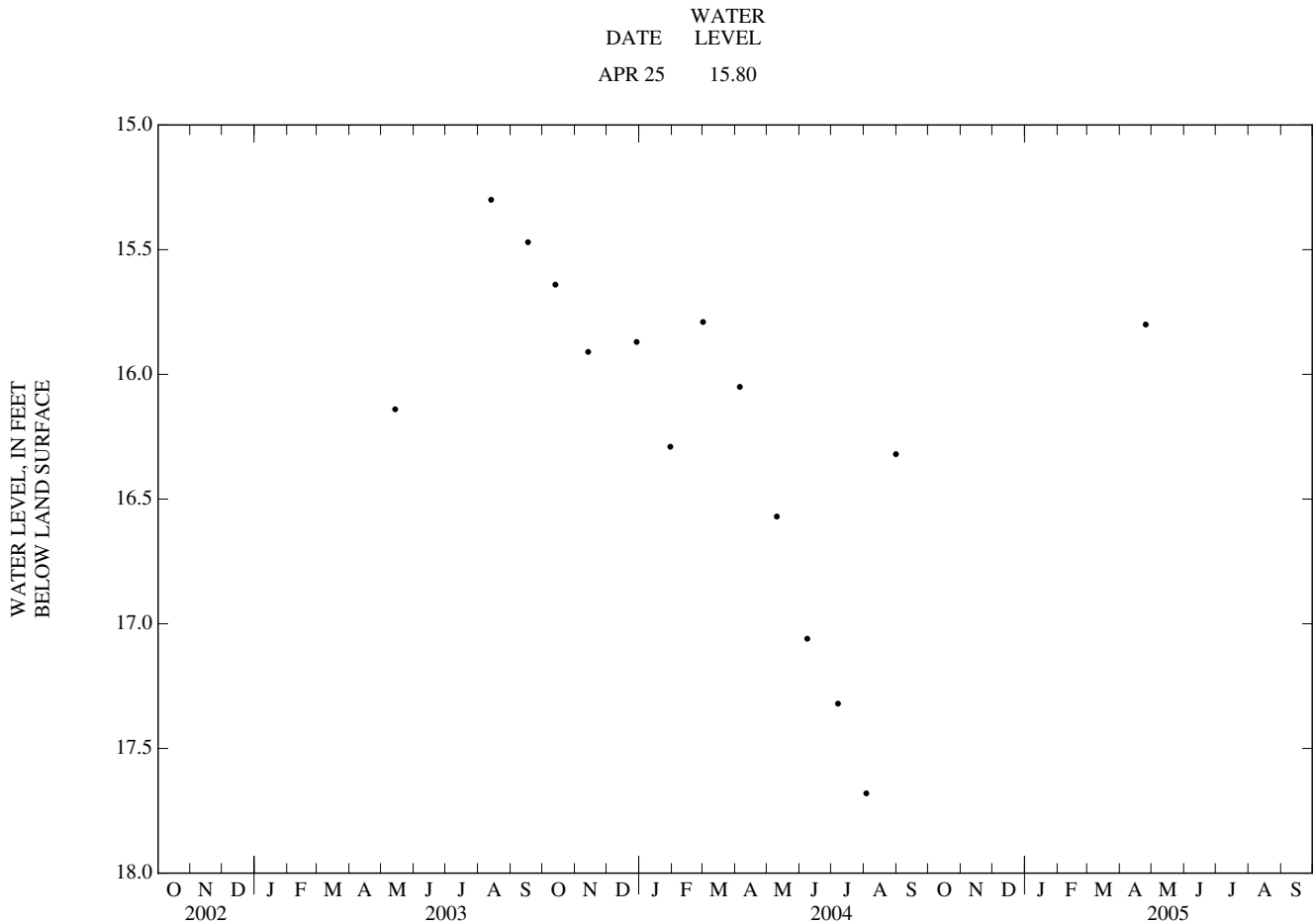
DATUM.--Land-surface datum is 358.83 ft above NGVD of 1929. Measuring point: Top of 2-inch casing, 1.35 ft above land-surface datum.

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

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.30 ft below land-surface datum, Aug. 13, 2003; lowest water level measured 17.68 ft below land-surface datum, Aug. 3, 2004.

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



GROUND-WATER LEVELS  
WAKE COUNTY—Continued

354328078295701. County number, WK-328; Raleigh Hydrogeologic Research Station WC-1S (Regolith).

LOCATION.--Lat 35°43'28", long 78°29'57", Hydrologic Unit 03020201, 9.3 mi east south east of Raleigh. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Regolith.

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 9 to 33 ft.

INSTRUMENTATION.--Water-level recorder collecting data at 30-minute intervals.

DATUM.--Land-surface datum is 152.10 ft above NGVD of 1929. Measuring point: Top of PVC casing, 2.50 ft above land-surface datum.

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

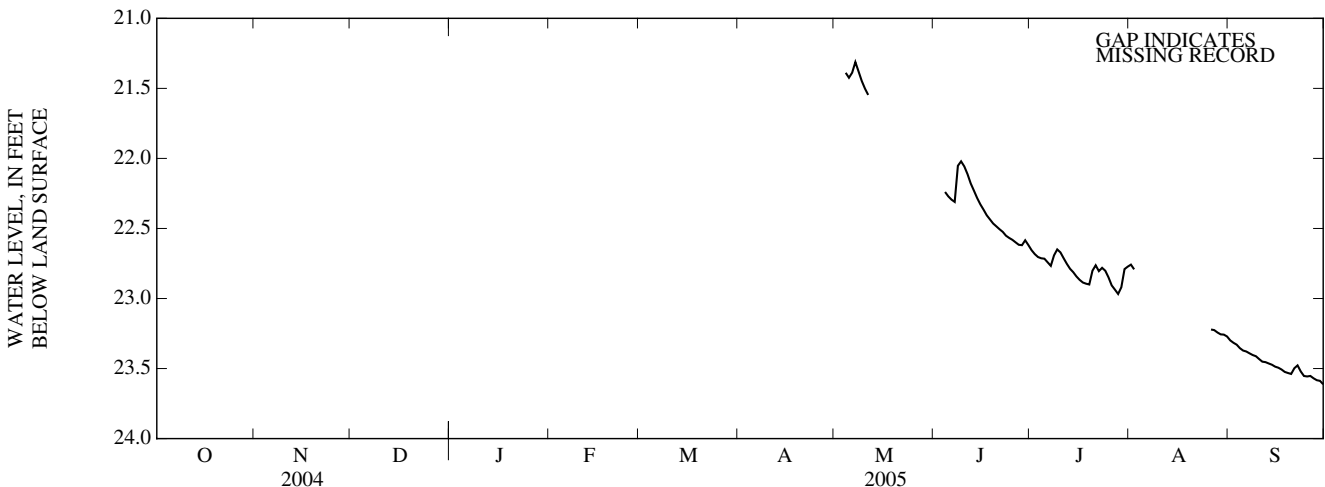
PERIOD OF RECORD.--May 2005 to September 2005.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 21.29 ft below land-surface datum, May 3, 7, 2005; lowest water level recorded, 23.76 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	---	---	---	---	---	---	---	---	---	22.66	22.76	23.30
2	---	---	---	---	---	---	---	---	---	22.68	22.79	23.32
3	---	---	---	---	---	---	---	---	---	22.70	---	23.33
4	---	---	---	---	---	---	---	21.39	22.24	22.71	---	23.35
5	---	---	---	---	---	---	---	21.42	22.27	22.72	---	23.37
6	---	---	---	---	---	---	---	21.39	22.29	22.74	---	23.38
7	---	---	---	---	---	---	---	21.31	22.31	22.77	---	23.39
8	---	---	---	---	---	---	---	21.38	22.05	22.69	---	23.40
9	---	---	---	---	---	---	---	21.45	22.02	22.65	---	23.41
10	---	---	---	---	---	---	---	21.50	22.06	22.67	---	23.43
11	---	---	---	---	---	---	---	21.55	22.11	22.71	---	23.45
12	---	---	---	---	---	---	---	---	22.18	22.75	---	23.45
13	---	---	---	---	---	---	---	---	22.23	22.79	---	23.46
14	---	---	---	---	---	---	---	---	22.28	22.81	---	23.47
15	---	---	---	---	---	---	---	---	22.33	22.84	---	23.49
16	---	---	---	---	---	---	---	---	22.37	22.87	---	23.49
17	---	---	---	---	---	---	---	---	22.41	22.89	---	23.51
18	---	---	---	---	---	---	---	---	22.44	22.89	---	23.52
19	---	---	---	---	---	---	---	---	22.46	22.90	---	23.53
20	---	---	---	---	---	---	---	---	22.48	22.80	---	23.54
21	---	---	---	---	---	---	---	---	22.51	22.76	---	23.50
22	---	---	---	---	---	---	---	---	22.52	22.80	---	23.48
23	---	---	---	---	---	---	---	---	22.55	22.78	---	23.52
24	---	---	---	---	---	---	---	---	22.57	22.80	---	23.55
25	---	---	---	---	---	---	---	---	22.58	22.85	---	23.56
26	---	---	---	---	---	---	---	---	22.60	22.91	23.22	23.55
27	---	---	---	---	---	---	---	---	22.62	22.94	23.23	23.57
28	---	---	---	---	---	---	---	---	22.62	22.97	23.24	23.58
29	---	---	---	---	---	---	---	---	22.58	22.92	23.26	23.59
30	---	---	---	---	---	---	---	---	22.62	22.79	23.26	23.61
31	---	---	---	---	---	---	---	---	---	22.77	23.27	---

WTR YR 2005 MEAN 22.80 HIGH 21.31 LOW 23.61



WAKE COUNTY—Continued

354328078295702. County number, WK-329; Raleigh Hydrogeologic Research Station WC-11 (Intermediate Zone).

LOCATION.--Lat 35°43'28", long 78°29'57", Hydrologic Unit 03020201, 9.3 mi east south east of Raleigh. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Regolith.

WELL CHARACTERISTICS.--Drilled observation well, depth 39 ft, diameter 4 in., cased to 24 ft, screened interval from 24 to 39 ft, sand filter packed from 19 to 42 ft.

INSTRUMENTATION.--Water-level recorder collecting data at 30-minute intervals.

DATUM.--Land-surface datum is 106.33 ft above North American Vertical Datum of 1988. Measuring point: Top of PVC casing, 2.72 ft above land-surface datum.

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

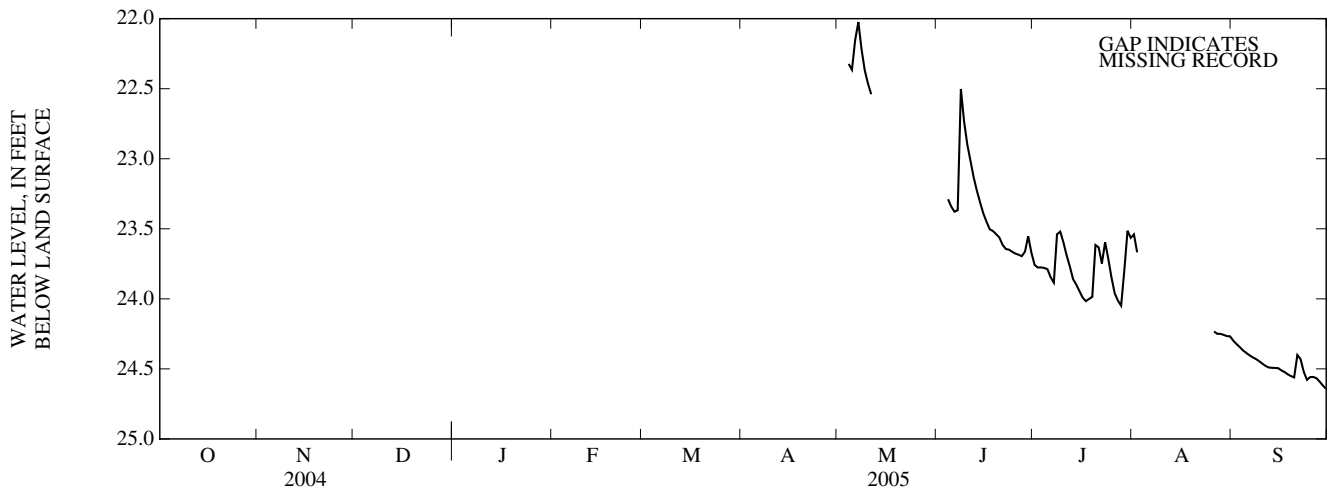
PERIOD OF RECORD.--May 2005 to September 2005.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 21.89 ft below land-surface datum, May 6, 2005; lowest water level recorded, 24.65 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	---	---	---	---	---	---	---	---	---	23.76	23.54	24.30
2	---	---	---	---	---	---	---	---	---	23.78	23.67	24.32
3	---	---	---	---	---	---	---	---	---	23.78	---	24.34
4	---	---	---	---	---	---	---	22.32	23.29	23.78	---	24.37
5	---	---	---	---	---	---	---	22.36	23.34	23.79	---	24.39
6	---	---	---	---	---	---	---	22.15	23.38	23.85	---	24.40
7	---	---	---	---	---	---	---	22.02	23.37	23.88	---	24.42
8	---	---	---	---	---	---	---	22.22	22.50	23.54	---	24.43
9	---	---	---	---	---	---	---	22.37	22.73	23.52	---	24.44
10	---	---	---	---	---	---	---	22.46	22.90	23.60	---	24.46
11	---	---	---	---	---	---	---	22.54	23.02	23.69	---	24.48
12	---	---	---	---	---	---	---	---	23.13	23.77	---	24.49
13	---	---	---	---	---	---	---	---	23.23	23.86	---	24.49
14	---	---	---	---	---	---	---	---	23.31	23.90	---	24.49
15	---	---	---	---	---	---	---	---	23.39	23.94	---	24.49
16	---	---	---	---	---	---	---	---	23.45	23.99	---	24.51
17	---	---	---	---	---	---	---	---	23.50	24.02	---	24.52
18	---	---	---	---	---	---	---	---	23.52	24.00	---	24.54
19	---	---	---	---	---	---	---	---	23.54	23.99	---	24.55
20	---	---	---	---	---	---	---	---	23.56	23.62	---	24.56
21	---	---	---	---	---	---	---	---	23.61	23.63	---	24.40
22	---	---	---	---	---	---	---	---	23.64	23.75	---	24.43
23	---	---	---	---	---	---	---	---	23.65	23.60	---	24.52
24	---	---	---	---	---	---	---	---	23.66	23.71	---	24.58
25	---	---	---	---	---	---	---	---	23.68	23.85	---	24.56
26	---	---	---	---	---	---	---	---	23.69	23.96	24.23	24.56
27	---	---	---	---	---	---	---	---	23.70	24.01	24.25	24.57
28	---	---	---	---	---	---	---	---	23.66	24.05	24.25	24.59
29	---	---	---	---	---	---	---	---	23.55	23.80	24.26	24.62
30	---	---	---	---	---	---	---	---	23.67	23.51	24.27	24.64
31	---	---	---	---	---	---	---	---	---	23.56	24.27	---

WTR YR 2005 MEAN 23.80 HIGH 22.02 LOW 24.64



GROUND-WATER LEVELS

WAKE COUNTY—Continued

354328078295704. County number, WK-331; Raleigh Hydrogeologic Research Station WC-1CH (Bedrock).

LOCATION.--Lat 38°43'28", long 78°29'57", Hydrologic Unit 03020201, 9.3 mi east south east of Raleigh. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Felsic intrusive igneous rock.

WELL CHARACTERISTICS.--Drilled observation well, depth 90 ft, diameter 6 in., cased to 21 ft, open hole from 21 to 90 ft, diameter 3 in.

INSTRUMENTATION.--Water-level recorder collecting data at 30-minute intervals.

DATUM.--Land-surface datum is 100.91 ft above NAVD of 1988. Measuring point: Top of steel casing, 2.40 ft above land-surface datum.

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

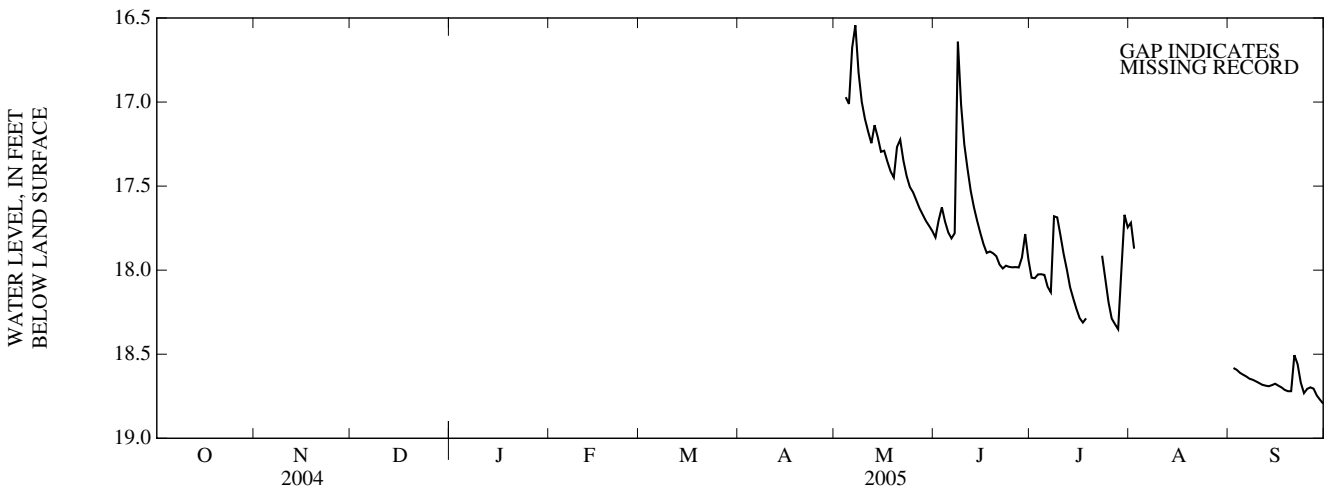
PERIOD OF RECORD.--May 2005 to September 2005.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 16.10 ft below land-surface datum, June 8, 2005; lowest water level recorded, 18.91 ft below land-surface datum, Sept. 10-13, 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	---	---	---	---	---	---	---	---	17.80	18.05	17.72	---
2	---	---	---	---	---	---	---	---	17.70	18.05	17.87	18.58
3	---	---	---	---	---	---	---	---	17.63	18.03	---	18.59
4	---	---	---	---	---	---	---	16.97	17.71	18.02	---	18.61
5	---	---	---	---	---	---	---	17.01	17.78	18.03	---	18.62
6	---	---	---	---	---	---	---	16.68	17.81	18.10	---	18.63
7	---	---	---	---	---	---	---	16.54	17.78	18.13	---	18.65
8	---	---	---	---	---	---	---	16.82	16.64	17.68	---	18.65
9	---	---	---	---	---	---	---	17.00	17.02	17.69	---	18.66
10	---	---	---	---	---	---	---	17.10	17.25	17.79	---	18.67
11	---	---	---	---	---	---	---	17.18	17.40	17.90	---	18.68
12	---	---	---	---	---	---	---	17.24	17.53	18.00	---	18.69
13	---	---	---	---	---	---	---	17.14	17.63	18.10	---	18.69
14	---	---	---	---	---	---	---	17.21	17.71	18.17	---	18.68
15	---	---	---	---	---	---	---	17.30	17.78	18.23	---	18.68
16	---	---	---	---	---	---	---	17.29	17.85	18.29	---	18.69
17	---	---	---	---	---	---	---	17.35	17.90	18.31	---	18.70
18	---	---	---	---	---	---	---	17.41	17.89	18.29	---	18.71
19	---	---	---	---	---	---	---	17.45	17.90	---	---	18.72
20	---	---	---	---	---	---	---	17.27	17.92	---	---	18.72
21	---	---	---	---	---	---	---	17.22	17.97	---	---	18.51
22	---	---	---	---	---	---	---	17.35	17.99	---	---	18.56
23	---	---	---	---	---	---	---	17.44	17.97	17.91	---	18.67
24	---	---	---	---	---	---	---	17.50	17.98	18.05	---	18.73
25	---	---	---	---	---	---	---	17.54	17.98	18.19	---	18.71
26	---	---	---	---	---	---	---	17.58	17.98	18.29	---	18.70
27	---	---	---	---	---	---	---	17.63	17.98	18.32	---	18.70
28	---	---	---	---	---	---	---	17.67	17.92	18.35	---	18.75
29	---	---	---	---	---	---	---	17.71	17.79	18.00	---	18.77
30	---	---	---	---	---	---	---	17.74	17.94	17.67	---	18.79
31	---	---	---	---	---	---	---	17.77	---	17.75	---	---

WTR YR 2005 MEAN 17.94 HIGH 16.54 LOW 18.79



## WAKE COUNTY—Continued

354315078300101. County number, WK-332; Raleigh Hydrogeologic Research Station WC-2S (Regolith).

LOCATION.--Lat 35°43'15", long 78°30'01", Hydrologic Unit 03020201, 9.3 mi east south east of Raleigh. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Regolith.

WELL CHARACTERISTICS.--Drilled observation well, depth 28.6 ft, diameter 4 in., cased to 13.6 ft, screened interval from 13.6 to 28.6 ft, sand filter packed from 7 to 28.6 ft.

INSTRUMENTATION.--Measured periodically with electric tape by DENR and USGS.

DATUM.--Land-surface datum is 125.14 ft above North American Vertical Datum of 1988. Measuring point: Top of PVC casing, 2.51 ft above land-surface datum.

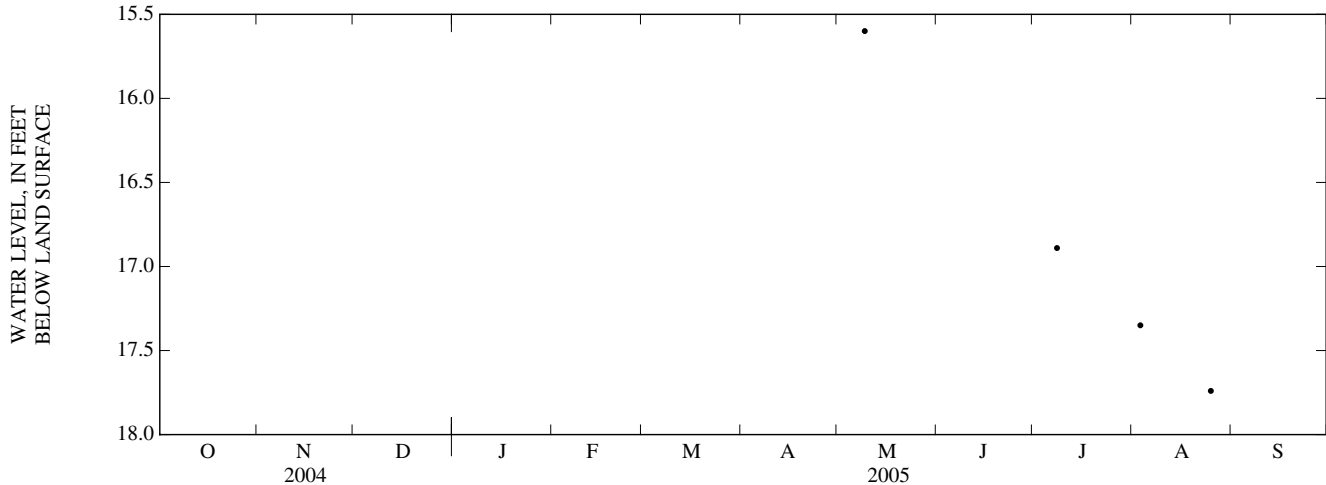
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.60 ft below land-surface datum, May 9, 2005; lowest water level measured, 17.74 ft below land-surface datum, Aug. 25, 2005.

## 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
MAY 09	15.60	JUL 08	16.89	AUG 03	17.35	AUG 25	17.74





GROUND-WATER LEVELS

WAKE COUNTY—Continued

354315078300102. County number, WK-333; Raleigh Hydrogeologic Research Station WC-2I (Intermediate Zone).

LOCATION.--Lat 35°43'15", long 78°30'01", Hydrologic Unit 03020201, 9.3 mi east south east of Raleigh. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Regolith.

WELL CHARACTERISTICS.--Drilled observation well, depth 42 ft, diameter 4 in., cased to 27 ft, screened interval from 27 to 42 ft, sand filter packed from 21 to 42 ft.

INSTRUMENTATION.--Measured periodically with electric tape by DENR and USGS.

DATUM.--Land-surface datum is 125.43 ft above North American Vertical Datum of 1988. Measuring point: Top of PVC casing, 2.27 ft above land-surface datum.

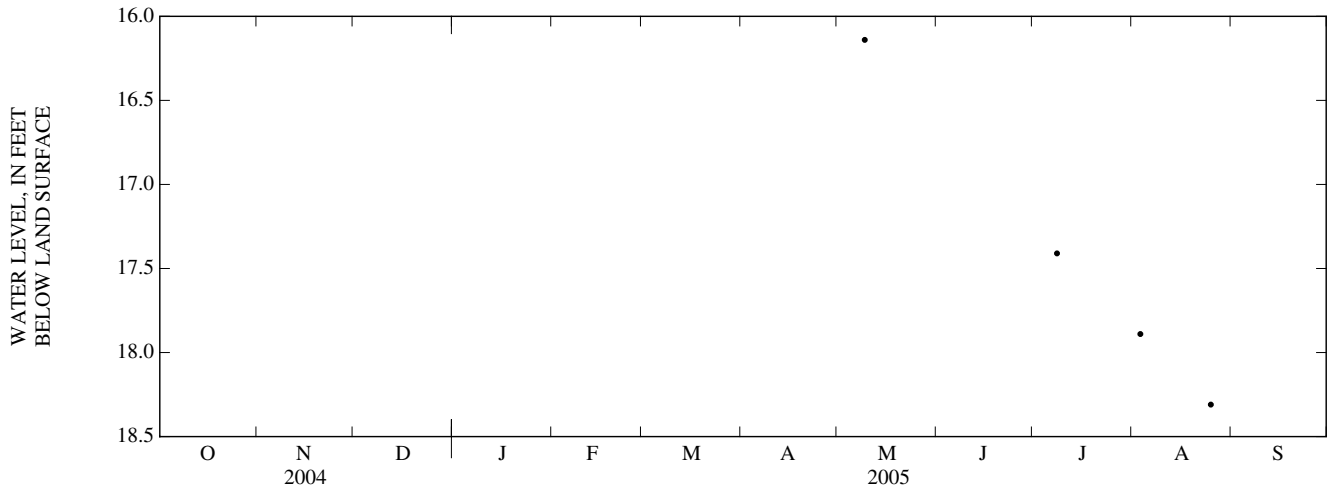
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.14 ft below land-surface datum, May 9, 2005; lowest water level measured, 18.31 ft below land-surface datum, Aug. 25, 2005.

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
MAY 09	16.14	JUL 08	17.41	AUG 03	17.89	AUG 25	18.31



WAKE COUNTY—Continued

354315078300103. County number, WK-334; Raleigh Hydrogeologic Research Station WC-2D (Bedrock).

LOCATION.--Lat 35°43'15", long 78°30'01", Hydrologic Unit 03020201, 9.3 mi east south east of Raleigh. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Felsic intrusive igneous rock.

WELL CHARACTERISTICS.--Drilled observation well, depth 460 ft, diameter 6.25 in., cased to 59 ft, open hole from 59 to 460 ft, diameter 6 in.

INSTRUMENTATION.--Measured periodically with electric tape by DENR and USGS.

DATUM.--Land-surface datum is 123.98 ft above North American Vertical Datum of 1988. Measuring point: Top of steel casing, 2.58 ft above land-surface datum.

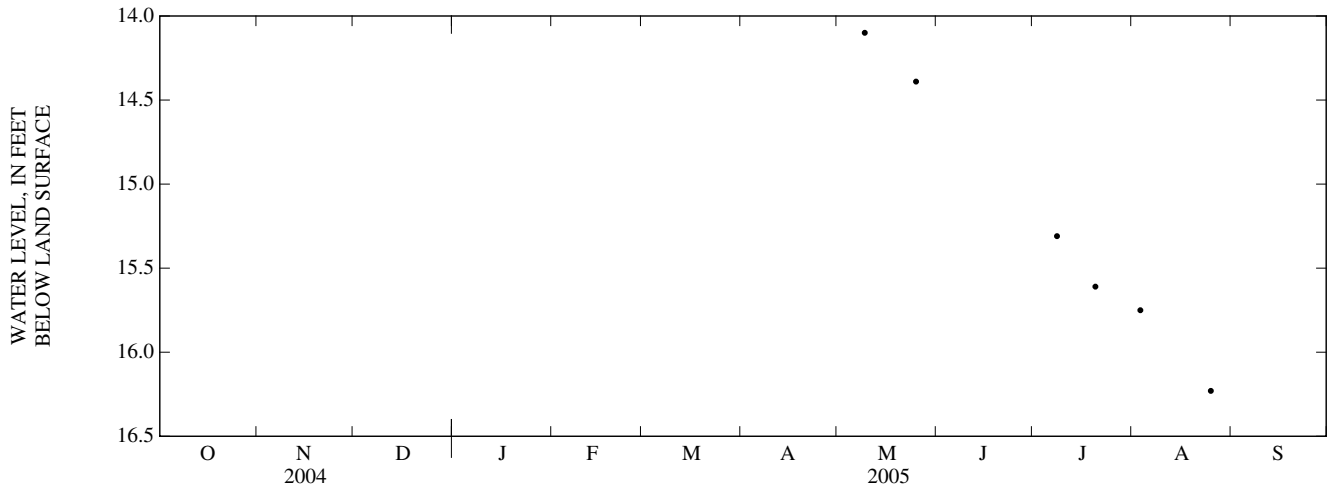
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.10 ft below land-surface datum, May 9, 2005; lowest water level measured, 17.67 ft below land-surface datum, Aug. 25, 2005.

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	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 09	14.10	MAY 25	14.39	JUL 08	15.31	JUL 20	15.61	AUG 03	15.75	AUG 25	16.23



GROUND-WATER LEVELS

WAKE COUNTY—Continued

354315078300104. County number, WK-335; Raleigh Hydrogeologic Research Station WC-2CH (Bedrock).

LOCATION.--Lat 38°43'15", long 78°30'01", Hydrologic Unit 03020201, 9.3 mi east south east of Raleigh. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Felsic intrusive igneous rock.

WELL CHARACTERISTICS.--Drilled observation well, depth 85 ft, diameter 4 in., cased to 70 ft, screened interval from 70 to 85 ft, sand filter packed from 65 to 85 ft.

INSTRUMENTATION.--Measured periodically with electric tape by DENR and USGS.

DATUM.--Land-surface datum is 135.03 ft above North American Vertical Datum of 1988. Measuring point: Top of PVC casing, 2.41 ft above land-surface datum.

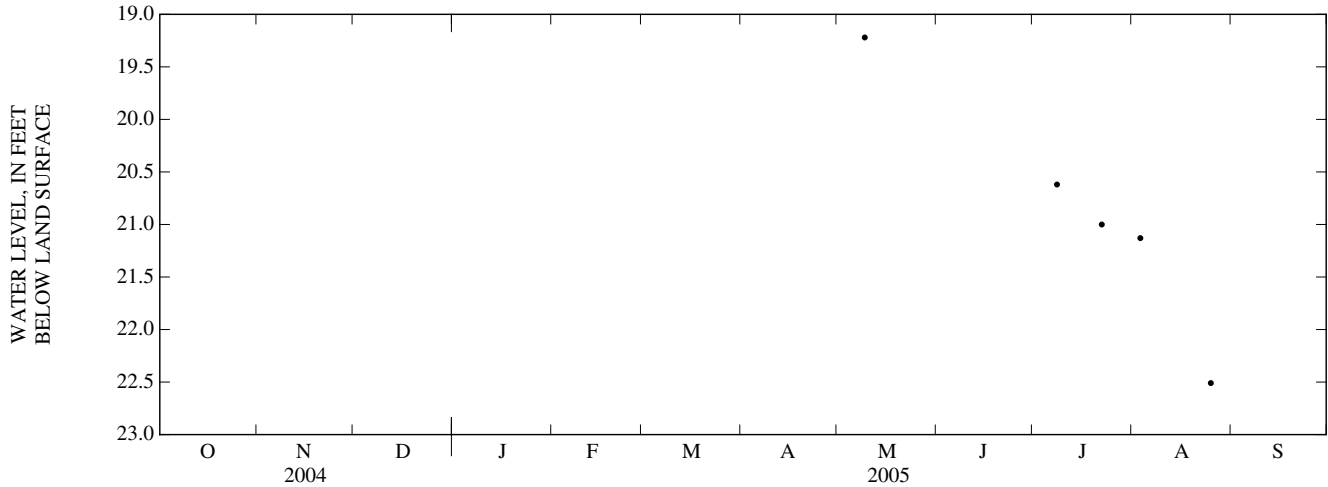
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.22 ft below land-surface datum, May 9, 2005; lowest water level measured, 22.51 ft below land-surface datum, Aug. 25, 2005.

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	DATE	WATER LEVEL
MAY 09	19.22	JUL 08	20.62	JUL 22	21.00	AUG 03	21.13	AUG 25	22.51



WAKE COUNTY—Continued

354305078295801. County number, WK-336; Raleigh Hydrogeologic Research Station WC-3S (Regolith).

LOCATION.--Lat 35°43'05", long 78°29'58", Hydrologic Unit 03020201, 9.3 mi east south east of Raleigh. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Regolith.

WELL CHARACTERISTICS.--Drilled observation well, depth 28.6 ft, diameter 4 in., cased to 13.6 ft, screened interval from 13.6 to 28.6 ft, sand filter packed from 9 to 28.6 ft.

INSTRUMENTATION.--Measured periodically with electric tape by DENR and USGS.

DATUM.--Land-surface datum is 145.23 ft above North American Vertical Datum of 1988. Measuring point: Top of PVC casing, 2.69 ft above land-surface datum.

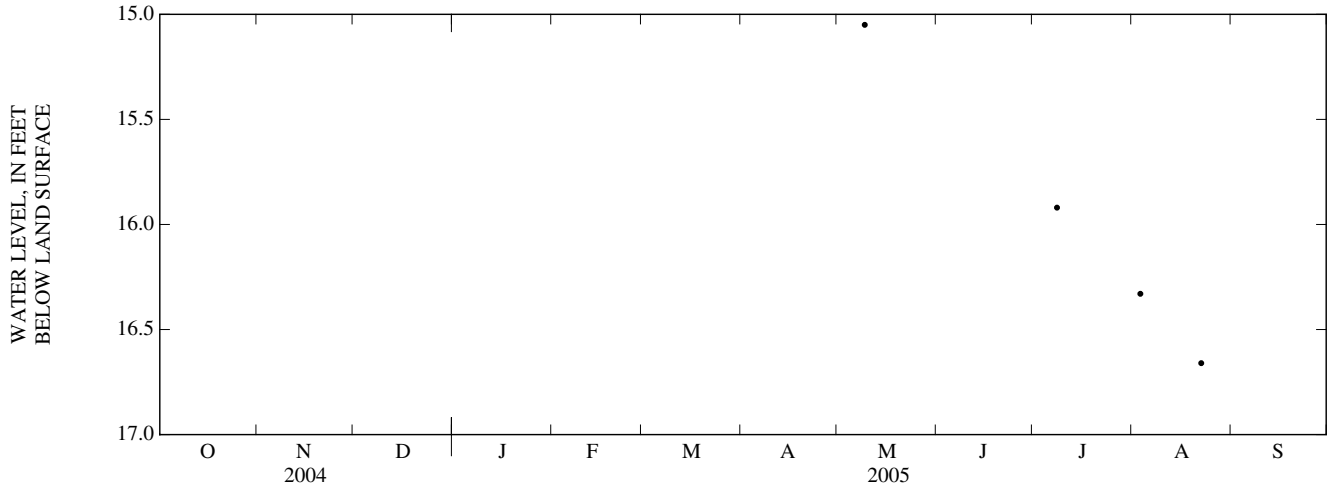
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.94 ft below land-surface datum, May 9, 2005; lowest water level measured, 22.23 ft below land-surface datum, Aug. 25, 2005.

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
MAY 09	15.05	JUL 08	15.92	AUG 03	16.33	AUG 22	16.66



GROUND-WATER LEVELS

WAKE COUNTY—Continued

354305078295802. County number, WK-337; Raleigh Hydrogeologic Research Station WC-3I (Intermediate Zone).

LOCATION.--Lat 35°43'05", long 78°29'58", Hydrologic Unit 03020201, 9.3 mi east south east of Raleigh. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Regolith.

WELL CHARACTERISTICS.--Drilled observation well, depth 49 ft, diameter 4 in., cased to 34 ft, screened interval from 34 to 49 ft, sand filter packed from 22 to 53 ft.

INSTRUMENTATION.--Measured periodically with electric tape by DENR and USGS.

DATUM.--Land-surface datum is 145.77 ft above North American Vertical Datum of 1988. Measuring point: Top of PVC casing, 2.69 ft above land-surface datum.

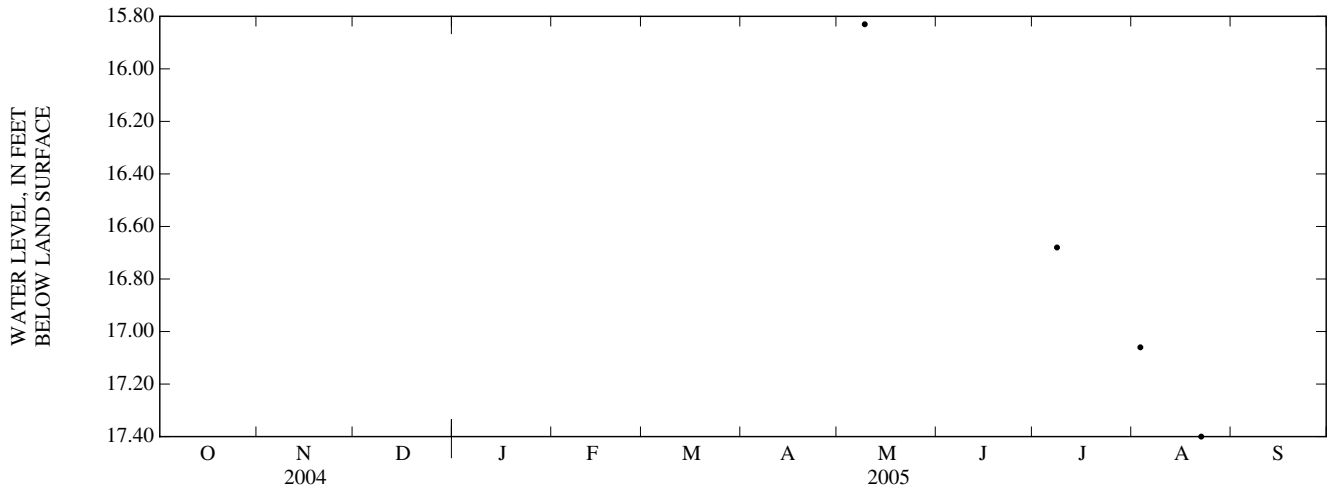
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.83 ft below land-surface datum, May 9, 2005; lowest water level measured, 17.40 ft below land-surface datum, Aug. 22, 2005.

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
MAY 09	15.83	JUL 08	16.68	AUG 03	17.06	AUG 22	17.40



WAKE COUNTY—Continued

354305078295803. County number, WK-338; Raleigh Hydrogeologic Research Station WC-3D (Bedrock).

LOCATION.--Lat 35°43'05", long 78°29'58", Hydrologic Unit 03020201, 9.3 mi east south east of Raleigh. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Felsic intrusive igneous rock.

WELL CHARACTERISTICS.--Drilled observation well, depth 300 ft, diameter 6.25 in., cased to 40 ft, open hole from 40 to 300 ft, diameter 6 in.

INSTRUMENTATION.--Measured periodically with electric tape by DENR and USGS.

DATUM.--Land-surface datum is 145.34 ft above North American Vertical Datum of 1988. Measuring point: Top of steel casing, 2.75 ft above land-surface datum.

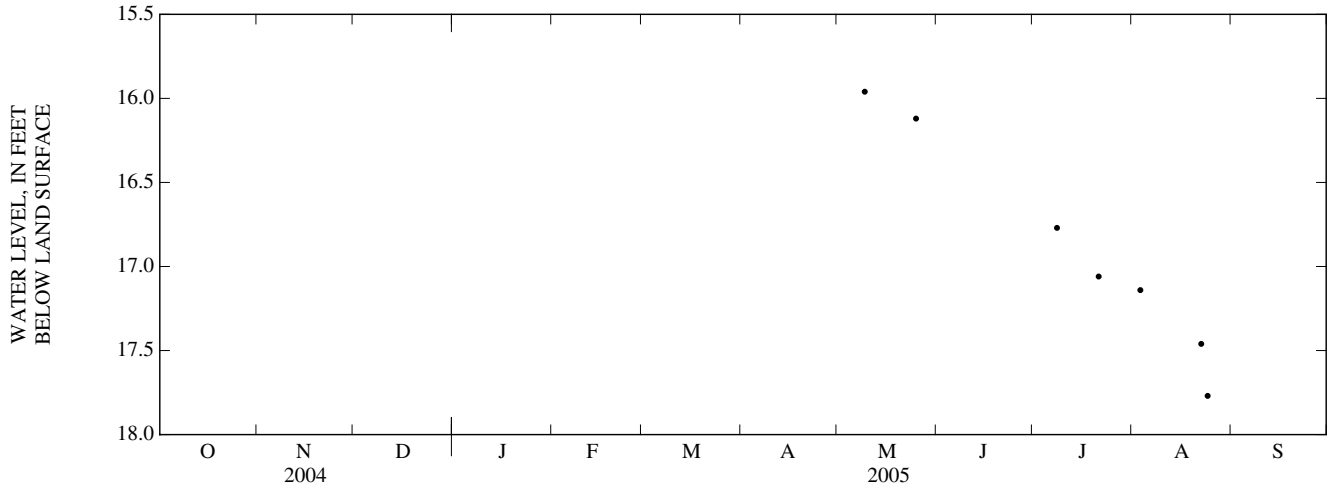
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.96 ft below land-surface datum, May 9, 2005; lowest water level measured, 17.77 ft below land-surface datum, Aug. 24, 2005.

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
MAY 09	15.96	JUL 08	16.77	AUG 03	17.14	AUG 24	17.77
25	16.12	21	17.06	22	17.46		



GROUND-WATER LEVELS

WAKE COUNTY—Continued

354305078295804. County number, WK-339; Raleigh Hydrogeologic Research Station WC-3CH (Bedrock).

LOCATION.--Lat 38°43'05", long 78°29'58", Hydrologic Unit 03020201, 9.3 mi east south east of Raleigh. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Felsic intrusive igneous rock.

WELL CHARACTERISTICS.--Drilled observation well, depth 125 ft, diameter 4 in., cased to 40 ft, open hole from 40 to 125 ft, diameter 4 in.

INSTRUMENTATION.--Measured periodically with electric tape by DENR and USGS.

DATUM.--Land-surface datum is 141.76 ft above NAVD of 1988. Measuring point: Top of PVC casing, 2.42 ft above land-surface datum.

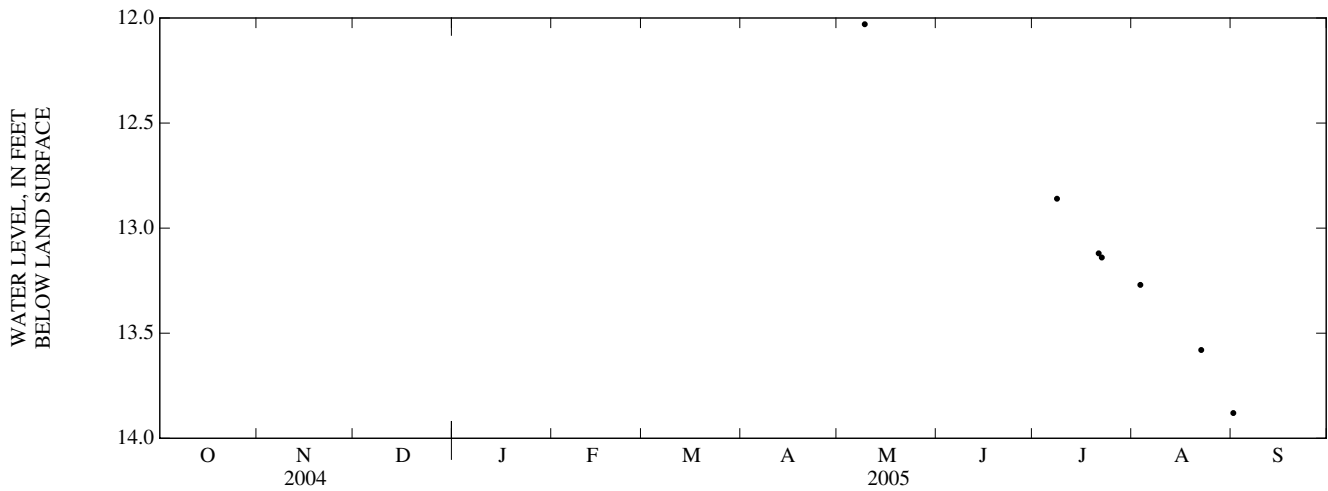
REMARKS.--Well is part of Piedmont/Mountains ground-water study.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.03 ft below land-surface datum, May 9, 2005; lowest water level measured, 13.88 ft below land-surface datum, Sept. 1, 2005.

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
MAY 09	12.03	JUL 21	13.12	AUG 03	13.27	SEP 01	13.88
JUL 08	12.86	JUL 22	13.14	AUG 22	13.58		



## WASHINGTON COUNTY

354418076463601. Local number, NC-158; County number, WS-100.

LOCATION.--Lat 35°44'20", long 76°46'31", Hydrologic Unit 03020104, 2.4 mi west of State Highway 32 on Secondary Road 1101. Owner: U.S. Geological Survey.

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

WELL CHARACTERISTICS.--Drilled observation well, depth 15 ft, diameter 4 in., 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 35 ft above NGVD of 1929 (from topographic map). Measuring point: Top of instrument shelf, 2.49 ft above land-surface datum.

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

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 0.50 ft below land-surface datum, Mar. 2, 3, 1994; lowest water level recorded, 6.51 ft below land-surface datum, Oct. 17, 1997.

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

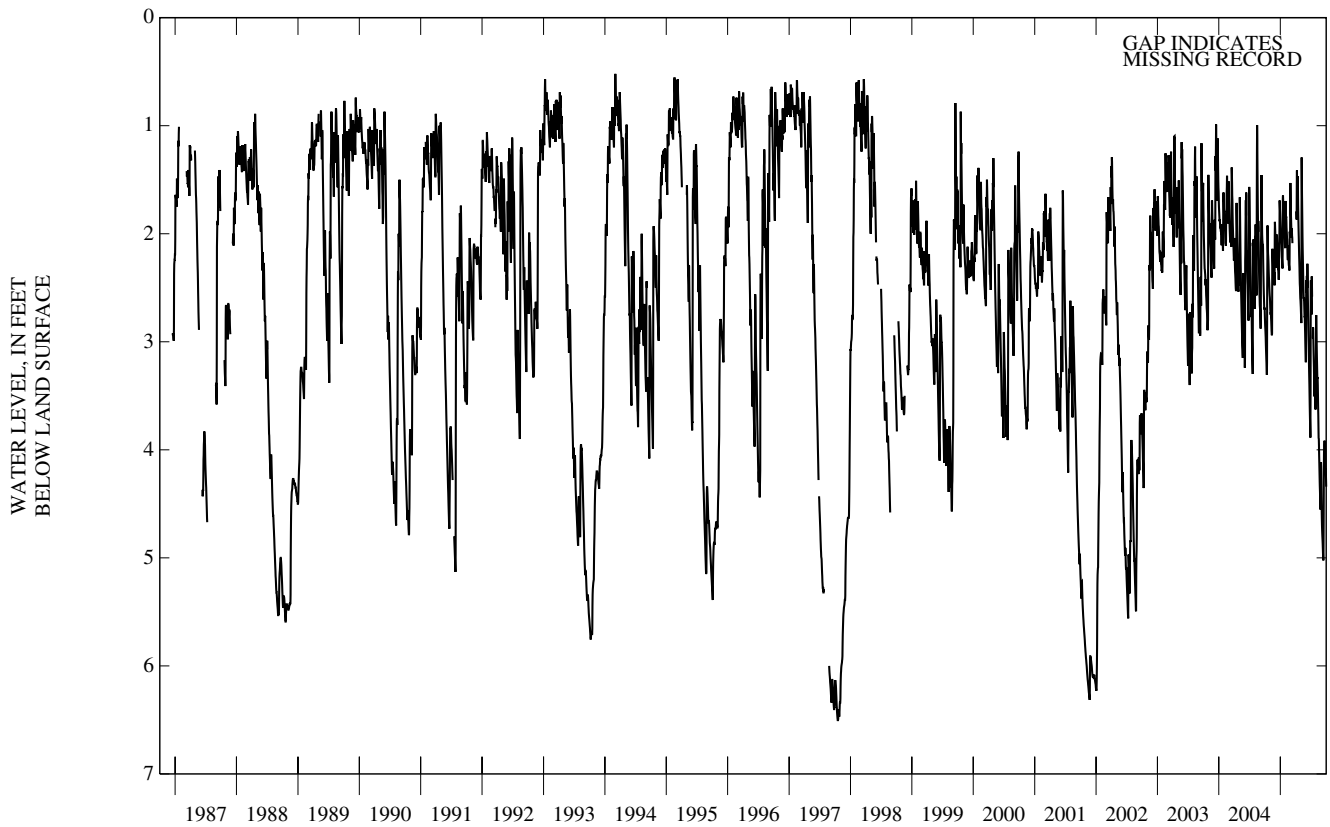
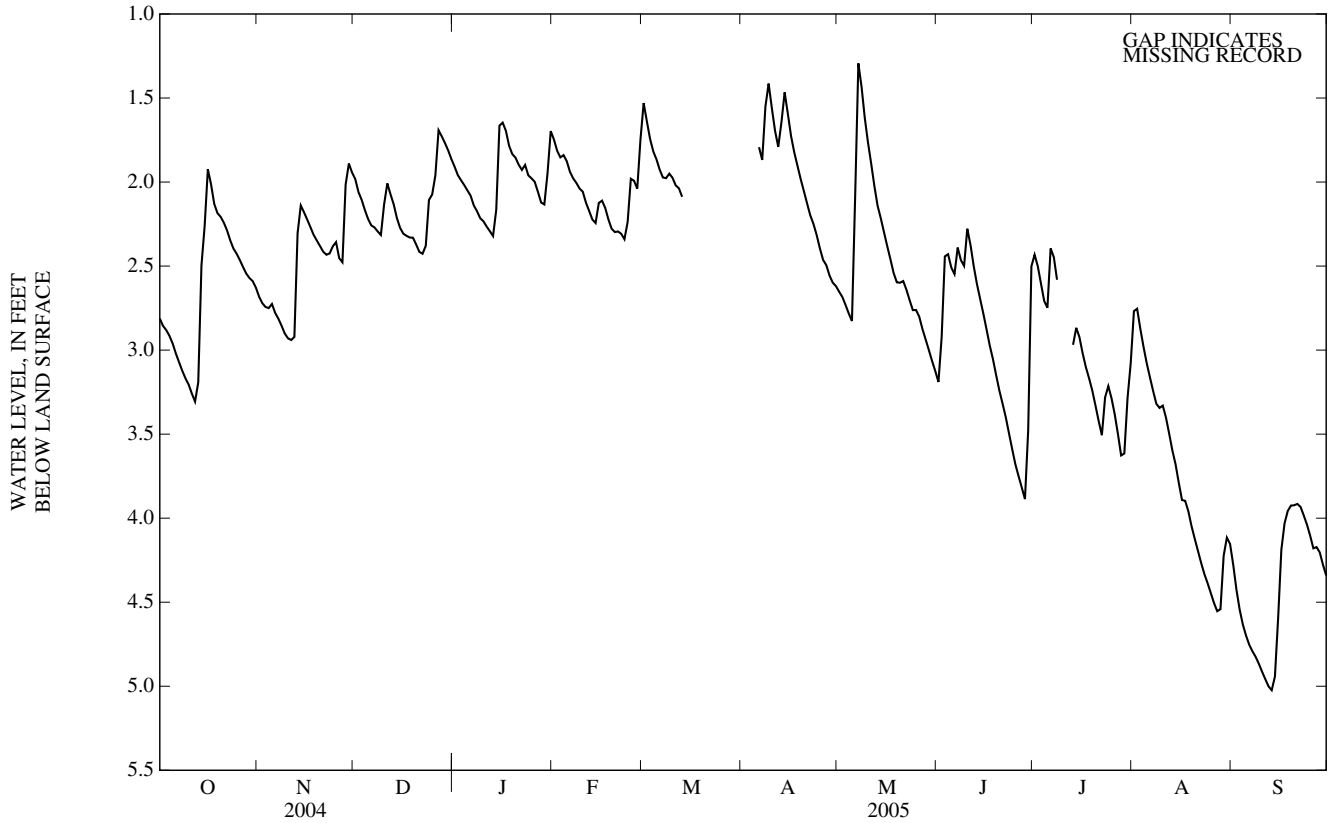
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.81	2.68	1.98	1.91	1.75	1.53	---	2.65	3.19	2.43	2.77	4.28
2	2.86	2.72	2.06	1.96	1.81	1.64	---	2.68	2.92	2.50	2.75	4.43
3	2.88	2.74	2.11	1.99	1.85	1.74	---	2.73	2.44	2.60	2.87	4.54
4	2.91	2.75	2.17	2.02	1.84	1.82	---	2.78	2.43	2.71	2.98	4.63
5	2.96	2.73	2.22	2.05	1.88	1.86	---	2.83	2.51	2.75	3.08	4.70
6	3.02	2.78	2.26	2.08	1.94	1.93	1.79	2.08	2.55	2.40	3.16	4.75
7	3.07	2.81	2.27	2.14	1.98	1.97	1.87	2.29	2.39	2.45	3.24	4.79
8	3.12	2.85	2.29	2.17	2.01	1.98	1.55	1.43	2.46	2.58	3.32	4.83
9	3.17	2.90	2.31	2.21	2.04	1.95	1.41	1.62	2.50	---	3.34	4.87
10	3.21	2.93	2.13	2.23	2.06	1.97	1.56	1.76	2.28	---	3.33	4.91
11	3.26	2.94	2.01	2.26	2.12	2.02	1.70	1.89	2.37	---	3.40	4.96
12	3.31	2.92	2.07	2.29	2.17	2.04	1.79	2.02	2.50	---	3.50	5.00
13	3.19	2.30	2.13	2.32	2.22	2.09	1.64	2.14	2.61	2.97	3.60	5.02
14	2.50	2.14	2.21	2.16	2.24	---	1.47	2.22	2.69	2.87	3.68	4.94
15	2.26	2.18	2.27	1.66	2.12	---	1.59	2.30	2.78	2.92	3.79	4.59
16	1.92	2.22	2.31	1.65	2.11	---	1.73	2.38	2.88	3.02	3.89	4.19
17	2.01	2.27	2.32	1.70	2.15	---	1.82	2.46	2.97	3.10	3.90	4.03
18	2.13	2.31	2.33	1.78	2.22	---	1.90	2.54	3.05	3.17	3.96	3.96
19	2.19	2.35	2.33	1.83	2.28	---	1.98	2.60	3.15	3.24	4.05	3.92
20	2.21	2.38	2.37	1.85	2.30	---	2.05	2.60	3.24	3.33	4.12	3.92
21	2.24	2.41	2.42	1.90	2.29	---	2.13	2.59	3.32	3.42	4.20	3.92
22	2.29	2.43	2.43	1.93	2.31	---	2.20	2.64	3.40	3.51	4.27	3.93
23	2.35	2.42	2.38	1.90	2.34	---	2.25	2.70	3.49	3.28	4.33	3.98
24	2.40	2.38	2.11	1.96	2.24	---	2.32	2.76	3.59	3.21	4.39	4.04
25	2.43	2.36	2.07	1.98	1.98	---	2.40	2.76	3.68	3.29	4.45	4.10
26	2.46	2.45	1.96	2.00	1.99	---	2.46	2.80	3.75	3.38	4.51	4.18
27	2.51	2.48	1.69	2.06	2.04	---	2.49	2.87	3.82	3.50	4.55	4.17
28	2.54	2.01	1.73	2.12	1.75	---	2.56	2.94	3.89	3.63	4.54	4.20
29	2.57	1.89	1.77	2.13	---	---	2.60	3.00	3.48	3.62	4.22	4.28
30	2.59	1.94	1.81	1.95	---	---	2.62	3.06	2.50	3.29	4.12	4.34
31	2.63	---	1.86	1.70	---	---	---	3.12	---	3.08	4.15	---

WTR YR 2005 MEAN 2.70 HIGH 1.29 LOW 5.02



GROUND-WATER LEVELS  
WASHINGTON COUNTY—Continued

354418076463601. Local number, NC-158; County number, WS-100—Continued



## WAYNE COUNTY

351849078163901. Local number, NC-148; County number, WA-154.

LOCATION.--Lat 35°18'35", long 78°16'22", Hydrologic Unit 03020201, 0.5 mi south of Johnston county line on Secondary Road 1009, and 6 mi west of Grantham. Owner: U.S. Geological Survey.

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

WELL CHARACTERISTICS.--Bored observation well, augered to 10.4 ft, diameter 3 in., cased to 5.4 ft, screened interval from 5.4 to 10.4 ft.

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

DATUM.--Land-surface datum is 190 ft above NGVD of 1929 (from topographic map). Measuring point: File cut on top of casing, 1.80 ft above land-surface datum.

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

PERIOD OF RECORD.--February 1980 to current year. Records for June 17 to Sept. 30, 1987, published in Water Resources Data, North Carolina, NC-87-1, are unreliable and should not be used.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 0.04 ft above land-surface datum, May 2, 1989; lowest water level recorded, 8.65 ft below land-surface datum, Sept. 24, 25, 1997.

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

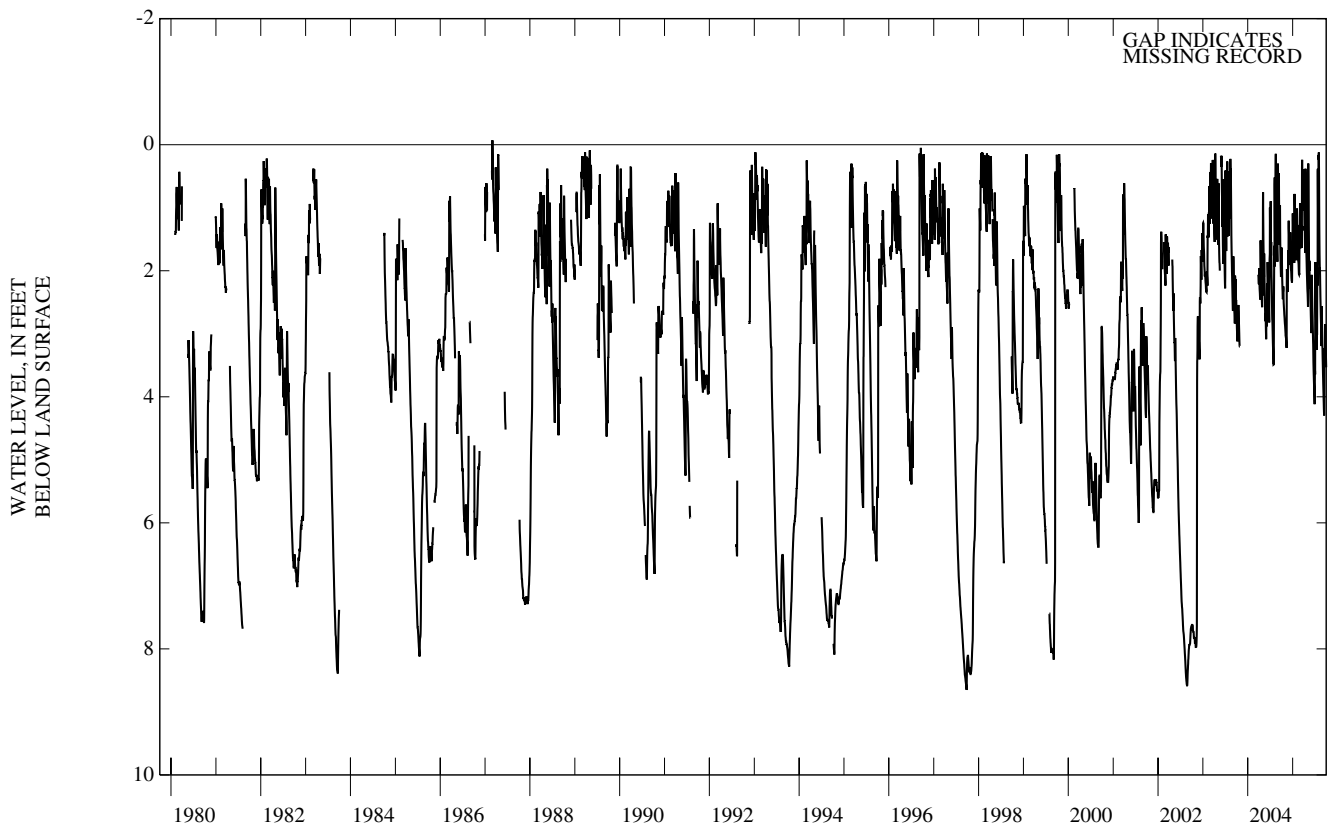
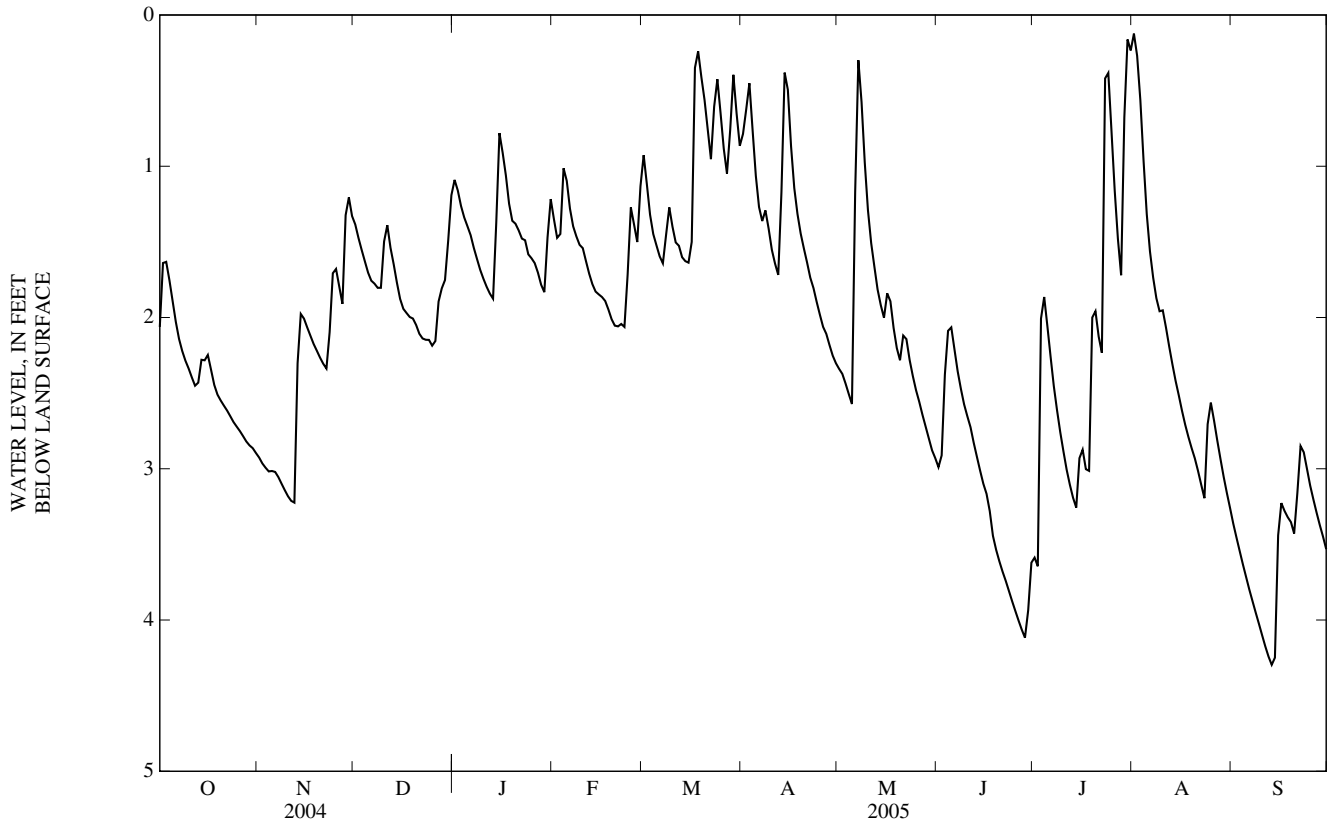
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.06	2.93	1.39	1.09	1.35	0.93	0.79	2.34	2.99	3.59	0.12	3.36
2	1.64	2.96	1.47	1.16	1.47	1.12	0.62	2.37	2.91	3.64	0.27	3.45
3	1.63	2.99	1.55	1.26	1.45	1.32	0.45	2.44	2.38	2.01	0.56	3.54
4	1.75	3.02	1.63	1.34	1.01	1.45	0.76	2.51	2.09	1.86	0.96	3.63
5	1.89	3.01	1.70	1.40	1.10	1.52	1.06	2.57	2.07	2.06	1.32	3.72
6	2.03	3.02	1.76	1.46	1.28	1.60	1.27	1.17	2.21	2.26	1.56	3.80
7	2.14	3.06	1.78	1.54	1.40	1.64	1.36	0.30	2.36	2.45	1.74	3.87
8	2.22	3.10	1.80	1.61	1.46	1.45	1.29	0.58	2.47	2.61	1.87	3.95
9	2.29	3.14	1.80	1.69	1.52	1.27	1.41	0.97	2.57	2.76	1.96	4.02
10	2.34	3.18	1.50	1.74	1.54	1.40	1.55	1.29	2.65	2.89	1.95	4.10
11	2.40	3.21	1.39	1.80	1.63	1.50	1.64	1.51	2.73	3.01	2.07	4.17
12	2.45	3.22	1.54	1.84	1.71	1.53	1.72	1.66	2.83	3.11	2.19	4.24
13	2.43	2.30	1.65	1.88	1.78	1.60	1.17	1.81	2.92	3.19	2.31	4.30
14	2.28	1.98	1.77	1.37	1.83	1.63	0.38	1.92	3.01	3.26	2.42	4.25
15	2.28	2.01	1.88	0.78	1.85	1.64	0.49	2.00	3.10	2.93	2.51	3.44
16	2.25	2.07	1.94	0.91	1.86	1.50	0.87	1.84	3.17	2.87	2.62	3.23
17	2.35	2.12	1.97	1.06	1.89	0.35	1.14	1.89	3.28	3.00	2.71	3.28
18	2.45	2.17	2.00	1.25	1.95	0.24	1.32	2.07	3.44	3.01	2.79	3.32
19	2.51	2.22	2.01	1.36	2.01	0.41	1.44	2.20	3.54	2.00	2.86	3.35
20	2.55	2.26	2.05	1.38	2.05	0.56	1.54	2.28	3.61	1.96	2.93	3.43
21	2.58	2.31	2.11	1.42	2.06	0.76	1.64	2.12	3.68	2.13	3.01	3.16
22	2.62	2.34	2.14	1.48	2.04	0.95	1.74	2.14	3.74	2.23	3.11	2.85
23	2.65	2.10	2.15	1.49	2.06	0.61	1.81	2.28	3.81	0.42	3.19	2.89
24	2.69	1.71	2.15	1.58	1.72	0.42	1.90	2.39	3.88	0.38	2.71	3.00
25	2.72	1.68	2.19	1.61	1.27	0.65	1.98	2.48	3.94	0.77	2.56	3.11
26	2.75	1.79	2.16	1.64	1.38	0.88	2.06	2.56	4.00	1.16	2.68	3.20
27	2.78	1.91	1.89	1.70	1.50	1.05	2.11	2.64	4.06	1.48	2.81	3.29
28	2.82	1.32	1.81	1.78	1.13	0.76	2.18	2.72	4.12	1.72	2.94	3.37
29	2.85	1.21	1.75	1.83	---	0.40	2.25	2.80	3.94	0.68	3.05	3.45
30	2.86	1.33	1.49	1.47	---	0.65	2.30	2.88	3.62	0.16	3.16	3.53
31	2.90	---	1.19	1.22	---	0.86	---	2.93	---	0.23	3.26	---

WTR YR 2005 MEAN 2.10 HIGH 0.12 LOW 4.30

GROUND-WATER LEVELS

WAYNE COUNTY—Continued

351849078163901. Local number, NC-148; County number, WA-154



WAYNE COUNTY--Continued

352905077594501. County number, WA-185; LU-13.

LOCATION.--Lat 35°29'05", long 77°59'45", Hydrologic Unit 03020202, on Secondary Road 1321, 1 mi north of Secondary Road 1320, near Pikeville.

WATER-LEVEL RECORDS

AQUIFER.--Upper Cape Fear.

WELL CHARACTERISTICS.--Drilled observation well, depth 33 ft, diameter 2 in., screened interval from 26.76 to 29.76 ft.

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

DATUM.--Land-surface datum is 134 ft above NGVD of 1929. Measuring point: Top of casing, 3.24 ft above land-surface datum.

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

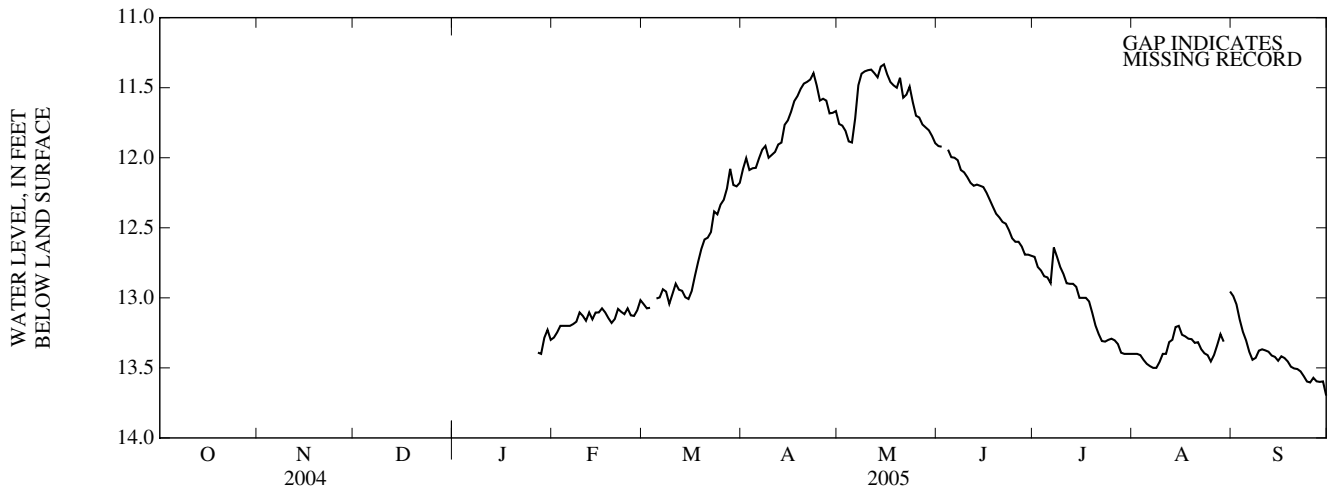
PERIOD OF RECORD.--January 2005 to September 2005.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 11.3 ft below land-surface datum, Apr. 22, 23, May 10-12, May 14-15, 2005; lowest water level recorded, 13.7 ft below land-surface datum, Sept. 24, 25, 29, 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	---	---	---	---	13.3	13.0	12.1	11.8	11.9	12.7	13.4	13.0
2	---	---	---	---	13.2	13.1	12.0	11.8	11.9	12.8	13.4	13.0
3	---	---	---	---	13.2	13.1	12.1	11.8	---	12.8	13.4	13.2
4	---	---	---	---	13.2	---	12.1	11.9	11.9	12.8	13.4	13.2
5	---	---	---	---	13.2	13.0	12.1	11.9	12.0	12.9	13.5	13.3
6	---	---	---	---	13.2	13.0	12.0	11.7	12.0	12.9	13.5	13.4
7	---	---	---	---	13.2	12.9	11.9	11.5	12.0	12.6	13.5	13.4
8	---	---	---	---	13.2	13.0	11.9	11.4	12.1	12.7	13.5	13.4
9	---	---	---	---	13.1	13.0	12.0	11.4	12.1	12.8	13.5	13.4
10	---	---	---	---	13.1	13.0	12.0	11.4	12.1	12.8	13.4	13.4
11	---	---	---	---	13.2	12.9	12.0	11.4	12.2	12.9	13.4	13.4
12	---	---	---	---	13.1	12.9	11.9	11.4	12.2	12.9	13.3	13.4
13	---	---	---	---	13.2	12.9	11.9	11.4	12.2	12.9	13.3	13.4
14	---	---	---	---	13.1	13.0	11.8	11.3	12.2	12.9	13.2	13.4
15	---	---	---	---	13.1	13.0	11.7	11.3	12.2	13.0	13.2	13.4
16	---	---	---	---	13.1	13.0	11.7	11.4	12.2	13.0	13.3	13.4
17	---	---	---	---	13.1	12.8	11.6	11.5	12.3	13.0	13.3	13.4
18	---	---	---	---	13.1	12.7	11.6	11.5	12.4	13.0	13.3	13.5
19	---	---	---	---	13.2	12.7	11.5	11.5	12.4	13.1	13.3	13.5
20	---	---	---	---	13.2	12.6	11.5	11.4	12.4	13.2	13.3	13.5
21	---	---	---	---	13.1	12.6	11.5	11.6	12.5	13.3	13.3	13.5
22	---	---	---	---	13.1	12.5	11.4	11.5	12.5	13.3	13.4	13.5
23	---	---	---	---	13.1	12.4	11.4	11.5	12.5	13.3	13.4	13.6
24	---	---	---	---	13.1	12.4	11.5	11.6	12.6	13.3	13.4	13.6
25	---	---	---	---	13.1	12.3	11.6	11.7	12.6	13.3	13.5	13.6
26	---	---	---	---	13.1	12.3	11.6	11.7	12.6	13.3	13.4	13.6
27	---	---	---	13.4	13.1	12.2	11.6	11.8	12.6	13.3	13.3	13.6
28	---	---	---	13.4	13.0	12.1	11.7	11.8	12.7	13.4	13.3	13.6
29	---	---	---	13.3	---	12.2	11.7	11.8	12.7	13.4	13.3	13.6
30	---	---	---	13.2	---	12.2	11.7	11.8	12.7	13.4	---	13.7
31	---	---	---	13.3	---	12.2	---	11.9	---	13.4	13.0	---

WTR YR 2005 MEAN 12.7 HIGH 11.3 LOW 13.7



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)	Altitude of land surface feet (72000)	Water level, depth below MP, feet (61055)	Flow rate, instantaneous gal/min (00059)	Sampling depth, feet (00003)	Turbidity white light, det ang 90+/-30 correctd NTRU (63676)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)
Date	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption 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)
Date	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC 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 nitrogen, wat flt by analysis, mg/L (62854)	Orthophosphate, water, fltrd, mg/L as P (00671)	1-Naphthol, water, fltrd, 0.7u GF ug/L (49295)	2,6-Diethyl-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)
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)	Car-baryl, 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 02...	1115	33.0	13.79	134	17.03	.40	20.0	--	762	.2	2	5.3	120
MAR 04...	1030	33.0	13.00	134	16.24	1.0	--	1.7	760	.8	8	5.3	121
JUN 03...	1000	33.0	11.92	134	15.16	.50	--	3.5	751	.1	1	5.3	119
AUG 30...	1700	33.0	13.59	134	16.83	.50	--	1.6	751	.2	2	5.5	119
DEC 02...	17.2		3.39	1.41	2.28	1	8.85	5	7	.05	17.9	E.1	22.7
MAR 04...	16.3	14	3.48	1.38	2.31	1	8.89	8	9	.21	18.1	<.1	22.4
JUN 03...	17.4	14	3.24	1.35	2.33	1	8.96	7	8	.05	17.9	<.1	23.1
AUG 30...	22.1	15	3.57	1.38	2.37	1	8.63	10	12	.11	18.4	<.1	22.5
DEC 02...	15.6	76	E.03	<.06	<.008	E.04	E.003	<.09	<.006	<.005	<.006	<.004	<.004
MAR 04...	14.2	87	E.02	<.06	<.008	E.04	E.004	--	--	--	--	--	--
JUN 03...	14.1	76	<.04	<.06	<.008	<.06	E.003	<.09	<.006	<.005	E.023	<.004	<.004
AUG 30...	13.5	91	<.04	<.06	<.008	E.04	<.006	<.09	<.006	<.005	<.006	<.004	<.004
DEC 02...	--	<.006	<.006	<.005	--	<.007	<.07	<.050	<.010	<.041	--	<.06	<.005
MAR 04...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 03...	<.004	<.006	<.006	<.005	<.005	.031	<.07	<.050	<.010	<.041	<.020	<.06	<.005
AUG 30...	<.004	<.006	<.006	<.005	<.005	.013	<.07	<.050	<.010	<.041	<.020	<.06	<.005

352905077594501. County number WA-185. LU-13.—Continued

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

Date	cis-Permethrin water fltrd 0.7u GF (82687)	cis-Propiconazole, water, fltrd, ug/L (79846)	Cyanazine, water, fltrd, ug/L (04041)	Cyfluthrin, water, fltrd, ug/L (61585)	lambda-Cyhalothrin, water, fltrd, ug/L (61595)	Cypermethrin water, fltrd, ug/L (61586)	DCPA, water fltrd 0.7u GF (82682)	Desulf-inyl fipronil, 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 (82662)
DEC 02...	<.006	--	--	<.008	--	<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.006
MAR 04...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 03...	<.006	<.008	<.018	<.027	<.009	<.009	<.003	<.012	--	<.005	<.08	<.009	<.006
AUG 30...	<.006	<.008	<.018	<.027	<.009	<.009	<.003	<.012	--	<.005	<.08	<.009	<.006
Date	Disulfoton sulfone water, fltrd, ug/L (61640)	Disulfoton, water, fltrd 0.7u GF (82677)	Endosulfan sulfate water, fltrd, ug/L (61590)	EPTC, water, fltrd 0.7u GF (82668)	Ethion monoxon water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)	Ethoprop, water, fltrd 0.7u GF (82672)	Fenamiphos sulfone water, fltrd, ug/L (61645)	Fenamiphos sulf-oxide, water, fltrd, ug/L (61646)	Fenamiphos, water, fltrd, ug/L (61591)	Desulf-inyl-fipronil 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 04...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 03...	<.01	<.02	<.014	<.004	<.002	<.004	<.005	<.049	<.04	<.03	<.029	<.013	<.024
AUG 30...	<.01	<.02	<.014	<.004	<.002	<.004	<.005	<.049	<.04	<.03	<.029	<.013	<.024
Date	Fipronil, water, fltrd, ug/L (62166)	Fonofos oxon, water, fltrd, ug/L (61649)	Fonofos water, fltrd, ug/L (04095)	Hexazinone, water, fltrd, ug/L (04025)	Iprodione, water, fltrd, ug/L (61593)	Isofenphos, water, fltrd, ug/L (61594)	Malaoxon, water, fltrd, ug/L (61652)	Malathion, water, fltrd, ug/L (39532)	Metaxyl, water, fltrd, ug/L (61596)	Methiathion water, fltrd, ug/L (61598)	Methyl paraxon, water, fltrd, ug/L (61664)	Methyl parathion, water, fltrd 0.7u GF (82667)	Metolachlor, water, fltrd, ug/L (39415)
DEC 02...	<.016	<.003	<.003	<.013	<.387	<.003	<.030	<.027	<.005	<.006	<.03	<.015	<.006
MAR 04...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 03...	<.016	--	<.003	<.013	<.538	<.003	<.030	<.027	<.005	<.006	<.03	<.015	E.004
AUG 30...	<.016	--	<.003	<.013	<.538	<.003	<.030	<.027	<.005	<.006	<.03	<.015	<.006
Date	Metribuzin, water, fltrd, ug/L (82630)	Molinate, water, fltrd 0.7u GF (82671)	Myclobutanil water, fltrd, ug/L (61599)	Oxyfluorfen, water, fltrd, ug/L (61600)	Pendimethalin, water, fltrd 0.7u GF (82683)	Phorate oxon, water, fltrd, ug/L (61666)	Phorate water fltrd 0.7u GF (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)	Propyzamide, water, fltrd 0.7u GF (82676)	Propanil, water, fltrd 0.7u GF (82679)
DEC 02...	<.006	--	<.008	--	<.022	<.10	<.011	--	<.008	<.01	<.005	<.004	--
MAR 04...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 03...	<.006	<.003	<.008	<.007	<.022	<.10	<.011	<.05	<.008	<.01	<.005	<.004	<.011
AUG 30...	<.006	<.003	<.008	<.007	<.022	<.10	<.011	<.05	<.008	<.01	<.005	<.004	<.011

352905077594501. County number WA-185. LU-13.—Continued

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

Date	Propar- gite, 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)	Ter- buthyl- azine, water, fltrd, ug/L (04022)	Thio- bencarb 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 02...	--	<.005	<.02	--	<.07	<.02	<.01	--	--	--	<.009	<.01	<.04
MAR 04...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 03...	<.02	<.005	<.02	<.008	<.07	<.02	<.01	<.010	<.01	<.004	<.009	<.01	--
AUG 30...	<.02	<.005	<.02	<.008	<.07	<.02	<.01	<.010	<.01	<.004	<.009	<.01	--

YADKIN COUNTY

361307080293101. Local number NC-221; DENR East Bend Research Station well F61f3; County number, YD-200.

LOCATION.--Lat 36°13'08", long 80°29'32", Hydrologic Unit 03040101, near East Bend. Owner: DENR (North Carolina Department of Environment and Natural Resources).

AQUIFER.--Mafic Gneiss.

WELL CHARACTERISTICS.--Drilled observation well, drilled to 400 ft, diameter 6 in., cased to 54 ft.

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

DATUM.--Land-surface datum is 1,009.00 ft above NGVD of 1929 (levels by DENR). Measuring point: Top of 12 in. PVC well cap, 3.52 ft above land-surface datum; revised from 0.56 ft above land-surface datum, June 8, 2005.

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

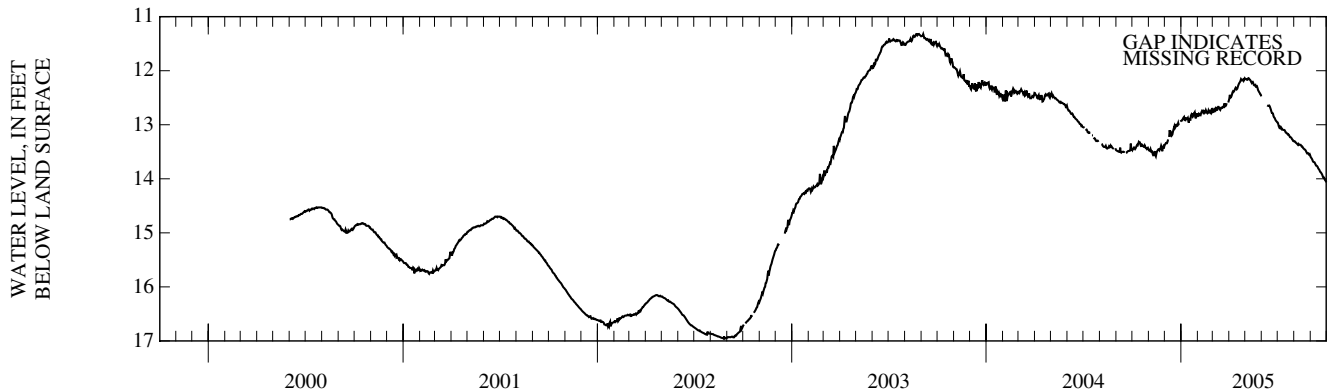
PERIOD OF RECORD.--June 2000 to current year. Records from June 1972 to May 2000 are unpublished and available in the files of the Groundwater Section, DENR.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 11.30 ft below land-surface datum, Aug. 22, 23, 25, 26, 27, Sept. 4, 2003; lowest water level recorded, 16.97 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	13.47	13.47	13.37	12.93	12.84	12.73	12.52	12.15	---	12.96	13.31	13.60
2	13.45	13.48	13.36	12.92	12.84	12.76	12.45	12.16	---	12.99	13.31	13.61
3	13.43	13.48	13.34	12.90	12.80	12.76	12.50	12.16	---	13.03	13.32	13.63
4	13.42	13.45	13.34	12.89	12.80	12.74	12.49	12.17	---	13.05	13.33	13.65
5	13.44	13.49	13.34	12.87	12.82	12.72	12.47	12.17	---	13.04	13.34	13.68
6	13.45	13.50	13.31	12.86	12.83	12.73	12.44	12.14	---	13.06	13.35	13.69
7	13.44	13.50	13.27	12.90	12.79	12.69	12.40	12.14	---	13.04	13.36	13.69
8	13.41	13.54	---	12.89	12.76	12.69	12.38	12.14	---	13.06	13.37	13.70
9	13.39	13.56	13.23	12.91	12.74	12.74	12.39	12.16	---	13.09	13.35	13.71
10	13.37	13.56	13.10	12.88	12.75	12.70	12.38	12.17	---	13.09	13.37	13.74
11	13.38	13.53	13.17	12.89	12.77	12.67	12.36	12.18	12.64	13.09	13.37	13.76
12	13.35	13.49	13.19	12.89	12.75	12.67	12.33	12.20	12.65	13.10	13.37	13.76
13	13.32	13.56	13.16	12.87	12.78	12.69	12.31	12.22	12.65	13.10	13.37	13.77
14	13.33	13.58	13.20	12.93	12.76	12.71	12.33	12.21	12.65	13.10	13.39	13.78
15	13.33	13.54	13.18	12.96	12.77	12.73	12.34	12.21	12.64	13.12	13.40	13.81
16	13.36	13.50	13.14	12.88	12.73	12.70	12.33	12.23	12.66	13.14	13.40	13.82
17	13.39	13.48	13.09	12.90	12.75	12.68	12.30	12.26	12.69	13.15	13.42	13.83
18	13.39	13.47	13.06	12.91	12.78	12.69	12.27	12.27	12.72	13.16	13.44	13.86
19	13.37	13.45	13.02	12.83	12.79	12.69	12.24	12.27	12.76	13.16	13.44	13.87
20	13.38	13.45	13.06	12.81	12.78	12.67	12.22	12.26	12.78	13.18	13.46	13.88
21	13.39	13.47	13.04	12.83	12.74	12.67	12.21	12.30	12.78	13.18	13.46	13.90
22	13.41	13.45	13.02	12.79	12.76	12.67	12.19	12.30	12.79	13.19	13.47	13.91
23	13.40	13.43	12.99	12.84	12.77	12.60	12.16	12.29	12.84	13.21	13.49	13.94
24	13.38	13.39	13.03	12.82	12.75	12.67	12.17	12.32	12.86	13.23	13.51	13.97
25	13.40	13.42	13.00	12.79	12.77	12.64	12.18	12.36	12.87	13.23	13.53	13.98
26	13.43	13.49	12.97	12.77	12.79	12.64	12.17	12.38	12.89	13.24	13.52	13.98
27	13.43	13.43	13.01	12.85	12.77	12.60	12.16	12.40	12.92	13.25	13.53	14.01
28	13.45	13.41	---	12.88	12.69	---	12.18	12.41	12.93	13.27	13.55	14.03
29	13.43	13.44	---	12.84	---	---	12.16	12.43	12.94	13.28	13.56	14.03
30	13.43	13.39	12.94	12.79	---	12.59	12.14	12.44	12.96	13.30	13.55	14.07
31	13.45	---	12.93	12.83	---	12.55	---	12.47	---	13.30	13.57	---

WTR YR 2005 MEAN 13.01 HIGH 12.14 LOW 14.07





GROUND-WATER LEVELS

SUFFOLK CITY, VA

363529076291701. LU-12.

LOCATION.--Lat 36°35'30", long 76°29'16", Hydrologic Unit 03010205, approximately 30 ft into the woods on south side of Interior Ditch in the Great Dismal Swamp National Wildlife Refuge, Virginia. Owner: U.S. Fish and Wildlife Service.

WATER-LEVEL RECORDS

AQUIFER.--Surficial.

WELL CHARACTERISTICS.--Drilled observation well, depth 5 ft, diameter 2 in., screened interval from 2 to 5 ft.

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

DATUM.--Land-surface datum is 15 ft above NGVD of 1929. Measuring point: Top of casing, 2.85 ft above land-surface datum.

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

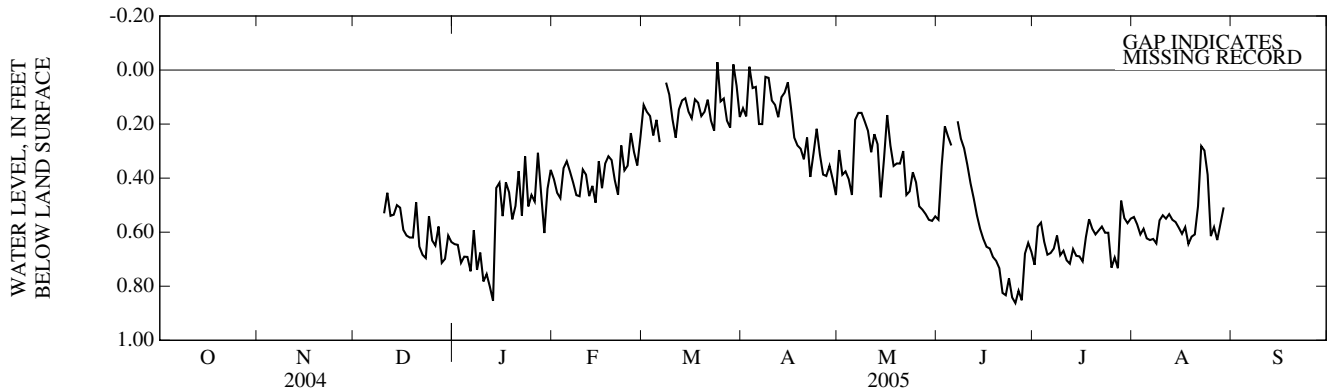
PERIOD OF RECORD.--December 2004 to September 2005.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, .3 ft below land-surface datum, Mar. 8, Apr. 3, 4, 2005; lowest water level recorded, 1.4 ft below land-surface datum, June 21, 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	---	---	---	0.6	0.4	0.1	0.1	0.3	0.6	0.7	0.5	---
2	---	---	---	0.6	0.5	0.2	0.2	0.4	0.4	0.6	0.6	---
3	---	---	---	0.7	0.5	0.2	0.0	0.4	0.2	0.6	0.6	---
4	---	---	---	0.7	0.4	0.2	0.1	0.4	0.2	0.6	0.6	---
5	---	---	---	0.7	0.3	0.2	0.1	0.5	0.3	0.7	0.6	---
6	---	---	---	0.7	0.4	0.3	0.2	0.2	---	0.7	0.6	---
7	---	---	---	0.6	0.4	---	0.2	0.2	0.2	0.7	0.6	---
8	---	---	---	0.7	0.5	0.0	0.0	0.2	0.3	0.6	0.6	---
9	---	---	---	0.7	0.5	0.1	0.0	0.2	0.3	0.7	0.6	---
10	---	---	0.5	0.8	0.4	0.2	0.1	0.2	0.3	0.7	0.5	---
11	---	---	0.5	0.8	0.4	0.3	0.1	0.3	0.4	0.7	0.6	---
12	---	---	0.5	0.8	0.5	0.1	0.2	0.2	0.5	0.7	0.5	---
13	---	---	0.5	0.9	0.4	0.1	0.1	0.3	0.5	0.7	0.6	---
14	---	---	0.5	0.4	0.5	0.1	0.1	0.5	0.6	0.7	0.6	---
15	---	---	0.5	0.4	0.3	0.2	0.0	0.3	0.6	0.7	0.6	---
16	---	---	0.6	0.5	0.4	0.2	0.1	0.2	0.7	0.7	0.6	---
17	---	---	0.6	0.4	0.3	0.1	0.3	0.3	0.7	0.6	0.6	---
18	---	---	0.6	0.5	0.3	0.1	0.3	0.4	0.7	0.6	0.6	---
19	---	---	0.6	0.6	0.3	0.2	0.3	0.3	0.7	0.6	0.6	---
20	---	---	0.5	0.5	0.4	0.2	0.3	0.3	0.7	0.6	0.6	---
21	---	---	0.7	0.4	0.5	0.1	0.2	0.3	0.8	0.6	0.5	---
22	---	---	0.7	0.5	0.3	0.2	0.4	0.5	0.8	0.6	0.3	---
23	---	---	0.7	0.3	0.4	0.2	0.3	0.4	0.8	0.6	0.3	---
24	---	---	0.5	0.5	0.4	0.0	0.2	0.4	0.8	0.6	0.4	---
25	---	---	0.6	0.5	0.2	0.1	0.3	0.4	0.9	0.7	0.6	---
26	---	---	0.6	0.5	0.3	0.1	0.4	0.5	0.8	0.7	0.6	---
27	---	---	0.6	0.3	0.4	0.2	0.4	0.5	0.9	0.7	0.6	---
28	---	---	0.7	0.5	0.2	0.2	0.4	0.5	0.7	0.5	0.6	---
29	---	---	0.7	0.6	---	0.0	0.4	0.6	0.6	0.5	0.5	---
30	---	---	0.6	0.4	---	0.1	0.5	0.6	0.7	0.6	---	---
31	---	---	0.6	0.4	---	0.2	---	0.5	---	0.6	---	---

WTR YR 2005 MEAN 0.4 HIGH 0.0 LOW 0.9



363529076291701. LU-012.—Continued

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)	Altitude of land surface feet (72000)	Water level, depth below MP, feet (61055)	Flow rate, instantaneous gal/min (00059)	Turbidity white light, det ang 90+/-30 correctd NTRU (63676)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd field, uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	
Date	Time	Hardness, water, mg/L as CaCO3 (00900)	Calcium, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption 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, 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)
Date	Time	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 nitrogen, wat flt by analysis, mg/L (62854)	Orthophosphate, water, fltrd, mg/L as P (00671)	1-Naphthol, water, fltrd 0.7u GF ug/L (49295)	2,6-Diethyl-aniline water fltrd 0.7u GF ug/L (82660)	2-Chloro-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)
Date	Time	4-Chloro-2-methyl 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)	Car-baryl, 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 09...	1400	5.0	1.59	15	4.44	--	--	761	1.3	12	5.1	93	13.0	
MAR 07...	1300	5.0	.34	15	3.19	.10	89	754	4.0	35	5.4	81	9.3	
JUN 06...	1300	5.0	.43	15	3.28	.10	72	760	1.2	12	5.1	92	16.6	
AUG 30...	1130	5.0	.77	15	3.62	.10	42	758	2.7	31	5.8	148	20.8	
DEC 09...			6.57	1.13	.96	.8	8.01	--	--	--	--	<.1	12.4	--
MAR 07...	18	5.57	.952	.84	.5	4.81	18	22	--	16.0	<.1	9.15	108	
JUN 06...	23	7.13	1.17	1.10	.5	5.69	41	50	2.15	6.66	E.1	9.80	.2	
AUG 30...	26	8.40	1.34	1.22	.7	8.24	58	70	3.05	7.51	<.1	14.6	E.2	
DEC 09...	289	.48	<.06	.026	3.36	.025	<.09	<.006	<.005	<.006	<.004	<.004	--	
MAR 07...	219	.26	<.06	.020	2.45	.007	<.09	<.006	<.005	<.006	<.004	<.004	--	
JUN 06...	296	.43	<.06	.063	3.55	.025	<.09	<.006	<.005	<.006	<.004	<.004	<.004	
AUG 30...	344	.97	<.06	.056	4.51	.041	<.09	<.006	<.005	<.006	<.004	<.004	<.004	
DEC 09...	<.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 06...	<.006	<.006	<.005	<.005	<.007	<.07	<.050	<.010	<.041	<.020	<.06	<.005	<.006	
AUG 30...	<.006	<.006	<.005	<.005	<.007	<.07	<.050	<.010	<.041	<.020	<.06	<.005	<.006	

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

Date	cis-Propiconazole, water, fltrd, ug/L (79846)	Cyanazine, water, fltrd, ug/L (04041)	Cyfluthrin, water, fltrd, ug/L (61585)	lambda-Cyhalothrin, water, fltrd, ug/L (61595)	Cypermethrin, water, fltrd, ug/L (61586)	DCPA, water fltrd, 0.7u GF, ug/L (82682)	Desulfinyl fipronil, water, fltrd, ug/L (62170)	Diazinon, 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)	Disulfoton sulfone, water, fltrd, ug/L (61640)
DEC 09...	--	--	<.008	--	<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.006	--
MAR 07...	--	--	<.027	--	<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.006	--
JUN 06...	<.008	<.018	<.027	<.009	<.009	<.003	<.012	--	<.005	<.08	<.009	<.006	<.01
AUG 30...	<.008	<.018	<.027	<.009	<.009	<.003	<.012	--	<.005	<.08	<.009	<.006	<.01
Date	Disulfoton, water, fltrd, 0.7u GF, ug/L (82677)	Endosulfan sulfate, water, fltrd, ug/L (61590)	EPTC, water, fltrd, 0.7u GF, ug/L (82668)	Ethion monooxon, water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)	Ethoprop, water, fltrd, 0.7u GF, ug/L (82672)	Fenamiphos sulfone, water, fltrd, ug/L (61645)	Fenamiphos sulf-oxide, water, fltrd, ug/L (61646)	Fenamiphos, water, fltrd, ug/L (61591)	Desulfinyl-fipronil 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)
DEC 09...	--	--	--	<.0020	<.004	--	<.049	--	<.03	<.029	<.013	<.024	<.016
MAR 07...	--	--	--	<.0020	<.004	--	<.049	<.04	<.03	<.029	<.013	<.024	<.016
JUN 06...	<.02	<.014	<.004	<.002	<.004	<.005	<.049	<.04	<.03	<.029	<.013	<.024	<.016
AUG 30...	<.02	<.014	<.004	<.002	<.004	<.005	<.049	<.04	<.03	<.029	<.013	<.024	<.016
Date	Fonofos, water, fltrd, ug/L (61649)	Fonofos, water, fltrd, ug/L (04095)	Hexazinone, water, fltrd, ug/L (04025)	Iprodione, water, fltrd, ug/L (61593)	Isofenphos, water, fltrd, ug/L (61594)	Malaoxon, water, fltrd, ug/L (61652)	Malathion, water, fltrd, ug/L (39532)	Metaxyl, water, fltrd, ug/L (61596)	Methiathion, water, fltrd, ug/L (61598)	Methyl paraxon, water, fltrd, ug/L (61664)	Methyl parathion, water, fltrd, 0.7u GF, ug/L (82667)	Metolachlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)
DEC 09...	<.003	<.003	<.013	<.387	<.003	<.030	<.027	<.005	<.006	<.03	<.015	<.006	<.006
MAR 07...	--	<.003	<.013	<.538	<.003	<.030	<.027	<.005	<.006	<.03	<.015	<.006	<.006
JUN 06...	--	<.003	<.013	<.538	<.003	<.030	<.027	<.005	<.006	<.03	<.015	<.006	<.006
AUG 30...	--	<.003	<.013	<.538	<.003	<.030	<.027	<.005	<.006	<.03	<.015	<.006	<.006
Date	Molinate, water, fltrd, 0.7u GF, ug/L (82671)	Myclobutanil, water, fltrd, ug/L (61599)	Oxyfluorfen, water, fltrd, ug/L (61600)	Pendimethalin, water, fltrd, 0.7u GF, ug/L (82683)	Phorate, water, fltrd, ug/L (61666)	Phorate, water, fltrd, 0.7u GF, ug/L (82664)	Phosmet, water, fltrd, ug/L (61668)	Phosmet, water, fltrd, ug/L (61601)	Prometon, water, fltrd, ug/L (04037)	Prometryn, water, fltrd, ug/L (04036)	Propyzamide, 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)
DEC 09...	--	<.008	--	<.022	<.10	<.011	<.05	<.008	<.01	<.005	<.004	--	--
MAR 07...	--	<.008	--	<.022	<.10	<.011	<.05	<.008	<.01	<.005	<.004	--	--
JUN 06...	<.003	<.008	<.007	<.022	<.10	<.011	--	--	<.01	<.005	<.004	<.011	<.02
AUG 30...	<.003	<.008	<.007	<.022	<.10	<.011	<.05	<.008	<.01	<.005	<.004	<.011	<.02

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

Date	Sima- zine, water, fltrd, ug/L (04035)	Tebu- thiuron water fltrd 0.7u GF (82670)	Teflu- thrin, water, fltrd, ug/L (61606)	Ter- bufos oxon sulfone water, fltrd, ug/L (61674)	Terbu- fos, water, fltrd 0.7u GF (82675)	Ter- buthyl- azine, water, fltrd, ug/L (04022)	Thio- bencarb water fltrd 0.7u GF (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 (82661)	Di- chlor- vos, water fltrd, ug/L (38775)	Uranium natural water, fltrd, ug/L (22703)
DEC 09...	<.005	<.02	--	<.07	<.02	<.01	--	--	--	<.009	<.01	.12
MAR 07...	<.005	<.02	--	<.07	<.02	<.01	--	--	--	<.009	<.01	--
JUN 06...	<.005	<.02	<.008	<.07	<.02	<.01	<.010	<.01	<.004	<.009	<.01	--
AUG 30...	<.005	<.02	<.008	<.07	<.02	<.01	<.010	<.01	<.004	<.009	<.01	--