

Water-Data Report 2007

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

Piedmont and Blue Ridge crystalline-rock aquifers

Saprolite

Rowan County, NC

LOCATION.--Lat 35°40'58", long 80°36'25" referenced to North American Datum of 1983, Rowan County, NC, 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.

GROUND-WATER RECORDS

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.

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

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

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

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

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

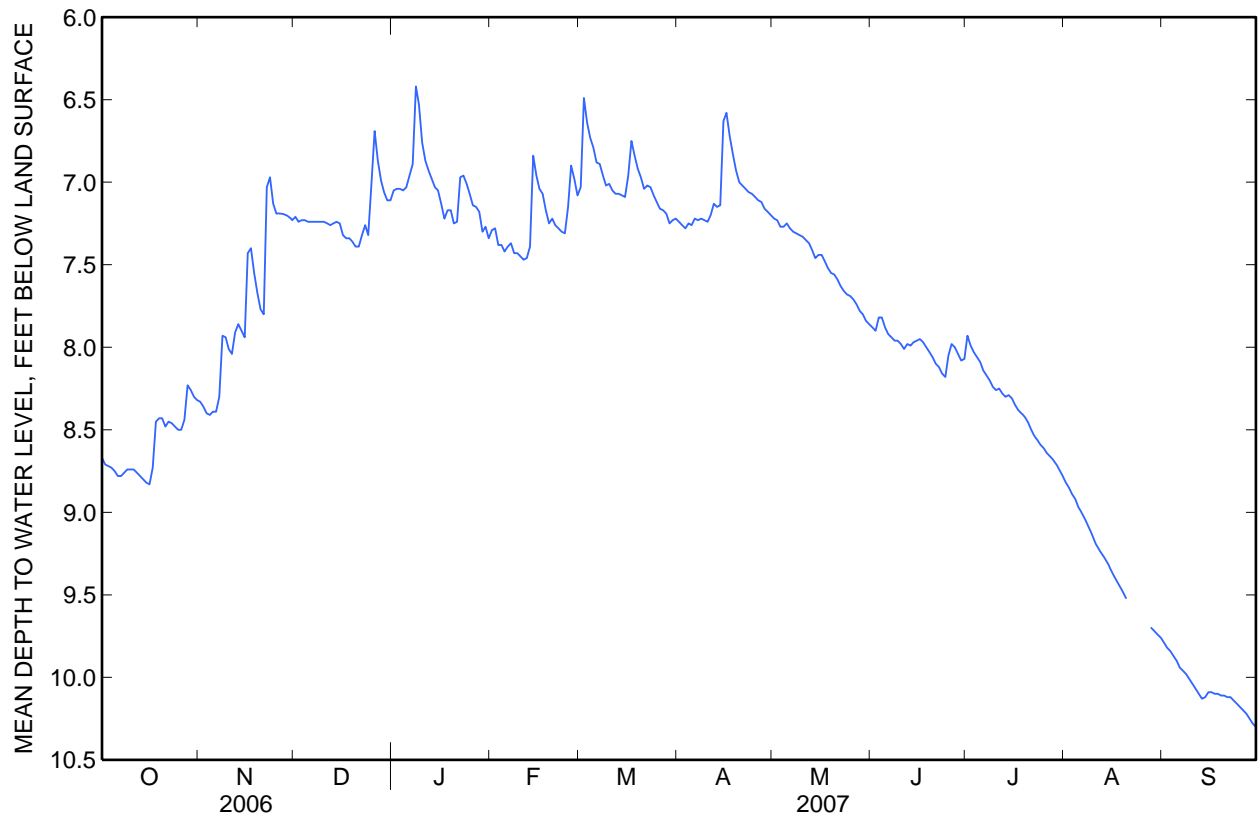
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DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	8.67	8.33	7.21	7.05	7.29	7.03	7.24	7.22	7.88	7.93	8.82	9.79
2	8.71	8.36	7.24	7.04	7.28	6.49	7.26	7.23	7.90	7.99	8.85	9.82
3	8.72	8.40	7.23	7.04	7.38	6.64	7.28	7.27	7.82	8.03	8.89	9.84
4	8.73	8.41	7.23	7.05	7.38	6.73	7.25	7.27	7.82	8.06	8.92	9.87
5	8.75	8.39	7.24	7.03	7.42	6.79	7.26	7.25	7.88	8.09	8.97	9.90
6	8.78	8.39	7.24	6.96	7.39	6.88	7.22	7.28	7.92	8.14	9.00	9.94
7	8.78	8.30	7.24	6.89	7.37	6.89	7.23	7.30	7.94	8.17	9.04	9.96
8	8.76	7.93	7.24	6.42	7.43	6.96	7.22	7.31	7.96	8.20	9.08	9.98
9	8.74	7.94	7.24	6.53	7.43	7.02	7.23	7.32	7.96	8.24	9.12	10.01
10	8.74	8.01	7.24	6.76	7.45	7.01	7.24	7.33	7.98	8.26	9.17	10.04
11	8.74	8.04	7.25	6.87	7.47	7.05	7.20	7.35	8.01	8.25	9.21	10.07
12	8.76	7.91	7.26	6.93	7.46	7.07	7.13	7.37	7.98	8.28	9.24	10.10
13	8.78	7.86	7.25	6.98	7.39	7.07	7.15	7.41	7.99	8.30	9.27	10.13
14	8.80	7.90	7.24	7.03	6.84	7.08	7.14	7.46	7.97	8.29	9.30	10.12
15	8.82	7.94	7.25	7.05	6.96	7.09	6.63	7.44	7.96	8.31	9.34	10.09
16	8.83	7.43	7.32	7.13	7.04	6.96	6.58	7.44	7.95	8.35	9.38	10.09
17	8.73	7.40	7.34	7.22	7.07	6.75	6.72	7.48	7.97	8.38	9.41	10.10
18	8.45	7.55	7.34	7.17	7.17	6.84	6.83	7.52	8.00	8.40	9.45	10.10
19	8.43	7.67	7.36	7.17	7.25	6.92	6.93	7.55	8.03	8.42	9.48	10.11
20	8.43	7.77	7.39	7.25	7.22	6.97	7.00	7.56	8.06	8.45	9.52	10.11
21	8.48	7.80	7.39	7.24	7.26	7.04	7.02	7.59	8.10	8.50	---	10.12
22	8.45	7.03	7.32	6.97	7.28	7.02	7.04	7.63	8.12	8.53	---	10.12
23	8.46	6.97	7.26	6.96	7.30	7.03	7.06	7.66	8.16	8.56	---	10.14
24	8.48	7.13	7.32	7.01	7.31	7.08	7.07	7.68	8.18	8.59	---	10.16
25	8.50	7.19	7.01	7.07	7.15	7.12	7.09	7.69	8.05	8.61	---	10.18
26	8.50	7.19	6.69	7.14	6.90	7.16	7.11	7.71	7.98	8.64	---	10.20
27	8.44	7.19	6.87	7.15	6.98	7.17	7.12	7.74	8.00	8.66	---	10.22
28	8.23	7.20	6.99	7.18	7.08	7.19	7.16	7.78	8.04	8.68	9.70	10.25
29	8.26	7.21	7.06	7.30	---	7.25	7.18	7.80	8.08	8.71	9.72	10.28
30	8.30	7.23	7.11	7.27	---	7.23	7.20	7.84	8.07	8.74	9.74	10.30
31	8.32	---	7.11	7.34	---	7.22	---	7.86	---	8.78	9.76	---
Mean	8.60	7.74	7.21	7.04	7.25	6.99	7.09	7.49	7.99	8.37	9.27	10.07
Max	8.83	8.41	7.39	7.34	7.47	7.25	7.28	7.86	8.18	8.78	9.76	10.30
Min	8.23	6.97	6.69	6.42	6.84	6.49	6.58	7.22	7.82	7.93	8.82	9.79

Water Year 2007	
Mean	7.90
High	6.42
Low	10.30

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CLIMATOLOGICAL RECORDS

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

INSTRUMENTATION.--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 2006 TO SEPTEMBER 2007
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.00	0.05	0.23	0.26	1.48	0.02	0.00	0.00	0.05	0.00	0.00
2	0.00	0.00	0.00	0.00	0.01	0.75	0.00	0.00	0.01	0.04	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	1.14	0.02	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
6	0.03	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00
7	0.02	0.74	0.00	0.57	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
8	0.06	0.13	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.19	0.00
11	0.01	0.37	0.00	0.00	0.00	0.00	1.05	0.00	0.47	0.49	0.00	0.00
12	0.00	0.03	0.00	0.00	0.00	0.00	0.37	0.00	0.01	0.00	0.00	0.00
13	0.00	0.00	0.01	0.00	1.16	0.00	0.00	0.00	0.51	0.00	0.02	0.00
14	0.00	0.00	0.00	0.00	0.02	0.00	0.96	0.00	0.01	0.00	0.00	0.83
15	0.00	0.19	0.00	0.00	0.00	0.00	0.79	0.00	0.01	0.00	0.00	0.01
16	0.00	0.59	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00	0.04	0.00
17	1.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00
18	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.02	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.07	0.01	0.00	0.00
20	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
21	0.00	0.66	0.05	0.51	0.10	0.00	0.00	0.00	0.00	0.00	---	0.00
22	0.10	0.45	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00
23	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.03	---	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.03	---	0.00
25	0.00	0.00	0.53	0.00	0.81	0.00	0.00	0.00	0.55	0.00	---	0.00
26	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.16	0.00	---	0.00
27	0.56	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.09	0.00	---	0.00
28	0.02	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.06	0.04	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.07	0.00	0.00	0.04	0.00	0.08	0.00
30	0.00	0.02	0.00	0.00	---	0.00	0.00	0.00	0.04	0.00	0.02	0.00
31	0.00	---	0.09	0.00	---	0.01	---	0.00	---	0.00	0.00	---
Total	2.10	3.18	1.18	1.89	2.36	3.69	3.57	0.37	4.07	1.05	---	0.84

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