

Water-Data Report 2011

**354616081085102 Local number CW-351 OXFORD RESEARCH STATION NEAR CLAREMONT, NC
(BEDROCK)**

Piedmont and Blue Ridge crystalline-rock aquifers
Bedrock Undifferentiated

Catawba County, NC

LOCATION.--Lat 35°46'15.78", long 81°08'50.45" referenced to North American Datum of 1983, Catawba County, NC, Hydrologic Unit 03050101, 4 mi. north of Claremont, NC. Owner: Alta Sales.

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Drilled observation well, drilled to 200 ft, diameter 6 in., cased to 40 ft. Open borehole interval (in bedrock) from 40 to 200 ft.

DATUM.--Land-surface datum is 1033 ft above North American Vertical Datum of 1988 (from topographical map). Measuring point: floor to instrument shelter on top of casing, 0.32 ft above land-surface datum, July 2009 to present.

PERIOD OF RECORD.--July 2009 to current year.

PRECIPITATION: March to September 2011, published as station 354616081085145.

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

REMARKS.--Well is part of the Catawba-Wateree Drought Monitoring Network.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 35.85 ft below land-surface datum, February 15, 2010; lowest water level recorded, 40.80 ft below land-surface datum, October, 25, 26, 2009.

354616081085102 Local number CW-351 OXFORD RESEARCH STATION NEAR CLAREMONT, NC (BEDROCK)—Continued

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	---	---	---	40.43	40.66
2	---	---	---	---	---	---	---	---	---	---	40.41	40.65
3	---	---	---	---	---	---	---	---	---	---	40.41	40.64
4	---	---	---	---	---	---	---	---	---	---	40.42	40.64
5	---	---	---	---	---	---	---	---	---	---	40.42	40.66
6	---	---	---	---	---	---	---	---	---	---	40.42	40.67
7	---	---	---	---	---	---	---	---	---	---	40.44	40.66
8	---	---	---	---	---	---	---	---	---	---	40.45	40.67
9	---	---	---	---	---	---	---	---	---	---	40.44	40.69
10	---	---	---	---	---	---	---	---	---	---	40.44	40.70
11	---	---	---	---	---	---	---	---	---	---	40.44	40.70
12	---	---	---	---	---	---	---	---	---	---	40.45	40.69
13	---	---	---	---	---	---	---	---	---	---	40.46	40.69
14	---	---	---	---	---	---	---	---	---	---	40.48	40.71
15	---	---	---	---	---	---	---	---	---	---	40.48	40.72
16	---	---	---	---	---	---	---	---	---	---	40.50	40.74
17	---	---	---	---	---	---	---	---	---	---	40.51	40.75
18	---	---	---	---	---	---	---	---	---	---	40.51	40.74
19	---	---	---	---	---	---	---	---	---	---	40.52	40.74
20	---	---	---	---	---	---	---	---	---	---	40.53	40.74
21	---	---	---	---	---	---	---	---	---	---	40.54	40.74
22	---	---	---	---	---	---	---	---	---	---	40.55	40.74
23	---	---	---	---	---	---	---	---	---	---	40.58	40.73
24	---	---	---	---	---	---	---	---	---	---	40.60	40.73
25	---	---	---	---	---	---	---	---	---	---	40.62	40.73
26	---	---	---	---	---	---	---	---	---	---	40.63	40.73
27	---	---	---	---	---	---	---	---	---	---	40.63	40.69
28	---	---	---	---	---	---	---	---	---	---	40.64	40.68
29	---	---	---	---	---	---	---	---	---	---	40.63	40.70
30	---	---	---	---	---	---	---	---	---	---	40.65	40.71
31	---	---	---	---	---	---	---	---	---	---	40.67	---
Mean	---	---	---	---	---	---	---	---	---	---	40.51	40.70
Max	---	---	---	---	---	---	---	---	---	---	40.67	40.75
Min	---	---	---	---	---	---	---	---	---	---	40.41	40.64

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DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	40.72	40.72	39.85	38.45	37.28	36.23	36.45	36.34	36.69	37.21	37.64	37.78
2	40.71	40.67	39.79	38.43	37.20	36.19	36.43	36.34	36.69	37.23	37.66	37.78
3	40.71	40.64	39.77	38.39	37.19	36.22	36.41	36.35	36.70	37.24	37.66	37.77
4	40.74	40.63	39.75	38.35	37.19	36.30	36.42	36.36	36.73	37.24	37.65	37.81
5	40.74	40.61	39.70	38.33	37.01	36.37	36.41	36.38	36.75	37.26	37.65	37.85
6	40.73	40.61	39.71	38.32	36.70	36.40	36.38	36.38	36.74	37.29	37.64	37.88
7	40.72	40.59	39.67	38.29	36.50	36.40	36.36	36.40	36.80	37.30	37.66	37.90
8	40.75	40.59	39.63	38.29	36.36	36.39	36.33	36.39	36.84	37.31	37.68	37.87
9	40.74	40.59	39.53	38.31	36.18	36.41	36.36	36.48	36.84	37.32	37.69	37.87
10	40.75	40.56	39.51	38.30	36.06	36.42	36.42	36.52	36.84	37.34	37.70	37.90
11	40.77	40.48	39.51	38.26	36.04	36.43	36.38	36.51	36.89	37.37	37.70	37.92
12	40.78	40.33	39.46	38.26	35.97	36.40	36.35	36.48	36.90	37.38	37.70	37.92
13	40.76	40.22	39.37	38.27	35.93	36.36	36.33	36.51	36.89	37.39	37.73	37.95
14	40.76	40.17	39.33	38.25	35.93	36.41	36.37	36.53	36.90	37.42	37.77	37.97
15	40.72	40.14	39.31	38.25	35.88	36.47	36.32	36.52	36.93	37.43	37.77	37.99
16	40.72	40.11	39.31	38.24	35.91	36.52	36.24	36.52	36.95	37.44	37.78	37.99
17	40.74	40.09	39.27	38.14	35.92	36.51	36.21	36.50	36.95	37.46	37.79	38.01
18	40.76	40.07	39.19	38.17	35.95	36.47	36.25	36.50	36.98	37.46	37.78	38.05
19	40.77	40.04	39.15	38.15	35.99	36.50	36.27	36.51	36.99	37.46	37.75	38.06
20	40.77	40.03	39.19	38.12	36.01	36.53	36.25	36.57	37.01	37.49	37.70	38.06
21	40.77	40.01	39.18	38.12	36.00	36.51	36.21	36.59	37.04	37.51	37.68	38.10
22	40.76	40.00	39.16	38.10	35.95	36.45	36.24	36.58	37.07	37.52	37.66	38.11
23	40.74	39.98	39.13	38.13	35.99	36.46	36.26	36.59	37.08	37.54	37.66	38.13
24	40.73	39.95	39.11	38.03	36.04	36.50	36.26	36.62	37.08	37.56	37.67	38.14
25	40.78	39.91	39.02	37.83	36.08	36.45	36.17	36.63	37.10	37.57	37.70	38.12
26	40.79	39.88	38.89	37.70	36.09	36.42	36.17	36.60	37.09	37.60	37.72	38.13
27	40.77	39.87	38.76	37.61	36.11	36.54	36.24	36.59	37.09	37.62	37.74	38.09
28	40.75	39.87	38.68	37.49	36.18	36.45	36.33	36.63	37.10	37.62	37.76	38.08
29	40.77	39.85	38.65	37.42	---	36.39	36.35	36.67	37.15	37.60	37.78	38.10
30	40.77	39.83	38.60	37.30	---	36.42	36.34	36.69	37.18	37.60	37.79	38.05
31	40.73	---	38.50	37.31	---	36.45	---	36.71	---	37.62	37.79	---
Mean	40.75	40.23	39.28	38.08	36.27	36.42	36.32	36.52	36.93	37.43	37.71	37.98
Max	40.79	40.72	39.85	38.45	37.28	36.54	36.45	36.71	37.18	37.62	37.79	38.14
Min	40.71	39.83	38.50	37.30	35.88	36.19	36.17	36.34	36.69	37.21	37.64	37.77

Water Year 2010	
Mean	37.84
High	35.88
Low	40.79

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WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	38.11	38.27	38.40	38.68	38.92	39.08	38.53	38.75	39.01	39.37	39.71	40.09
2	38.14	38.29	38.44	38.67	38.89	39.09	38.54	38.76	39.01	39.39	39.71	40.10
3	38.14	38.23	38.42	38.71	38.96	39.11	38.57	38.74	39.03	39.39	39.72	40.10
4	38.17	38.16	38.41	38.68	38.93	39.11	38.52	38.77	39.05	39.41	39.75	40.10
5	38.18	38.20	38.43	38.66	38.85	39.06	38.52	38.78	39.04	39.42	39.78	40.11
6	38.15	38.29	38.44	38.64	38.88	38.99	38.59	38.75	39.06	39.43	39.78	40.11
7	38.15	38.31	38.45	38.62	38.86	38.93	38.57	38.76	39.07	39.43	39.77	40.13
8	38.18	38.25	38.49	38.68	38.89	38.90	38.56	38.76	39.09	39.42	39.79	40.13
9	38.18	38.25	38.52	38.79	38.93	38.84	38.58	38.78	39.09	39.45	39.80	40.14
10	38.19	38.29	38.52	38.79	38.91	38.75	38.58	38.79	39.11	39.47	39.84	40.16
11	38.19	38.34	38.49	38.75	38.92	38.73	38.55	38.81	39.11	39.47	39.86	40.17
12	38.21	38.35	38.39	38.77	38.94	38.70	38.53	38.82	39.12	39.47	39.88	40.18
13	38.23	38.32	38.44	38.82	38.95	38.68	38.58	38.79	39.13	39.48	39.89	40.20
14	38.22	38.29	38.52	38.82	38.92	38.68	38.61	38.77	39.15	39.50	39.87	40.21
15	38.24	38.29	38.54	38.78	39.00	38.66	38.61	38.77	39.16	39.52	39.87	40.23
16	38.28	38.26	38.50	38.78	39.00	38.63	38.55	38.79	39.17	39.53	39.91	40.27
17	38.28	38.34	38.55	38.80	38.98	38.64	38.61	38.80	39.19	39.53	39.92	40.28
18	38.27	38.38	38.56	38.77	38.97	38.61	38.62	38.84	39.20	39.52	39.92	40.29
19	38.27	38.40	38.56	38.80	39.00	38.62	38.63	38.88	39.20	39.51	39.91	40.29
20	38.29	38.40	38.59	38.82	39.00	38.66	38.63	38.88	39.20	39.53	39.93	40.30
21	38.30	38.42	38.58	38.81	38.94	38.61	38.66	38.89	39.23	39.55	39.93	40.30
22	38.36	38.41	38.57	38.84	38.99	---	38.69	38.90	39.25	39.58	39.94	40.30
23	38.39	38.38	38.63	38.88	39.05	---	38.66	38.90	39.25	39.60	39.95	40.27
24	38.37	38.41	38.62	38.91	39.02	38.56	38.66	38.90	39.25	39.60	39.96	40.24
25	38.34	38.39	38.59	38.87	38.98	38.59	38.66	38.91	39.29	39.59	39.97	40.24
26	38.34	38.36	38.57	38.82	39.04	38.58	38.65	38.92	39.30	39.60	39.97	40.23
27	38.34	38.41	38.63	38.86	39.03	---	38.65	38.94	39.32	39.63	39.96	40.23
28	38.28	38.48	38.66	38.86	39.02	---	38.65	38.95	39.33	39.65	40.00	40.24
29	38.27	38.48	38.66	38.89	---	38.62	38.70	38.98	39.34	39.66	40.03	40.25
30	38.25	38.41	38.68	38.91	---	38.58	38.73	39.00	39.36	39.68	40.07	40.25
31	38.22	---	38.69	38.94	---	38.53	---	39.01	---	39.70	40.08	---
Mean	38.24	38.34	38.53	38.79	38.96	---	38.61	38.84	39.17	39.52	39.89	40.20
Max	38.39	38.48	38.69	38.94	39.05	---	38.73	39.01	39.36	39.70	40.08	40.30
Min	38.11	38.16	38.39	38.62	38.85	---	38.52	38.74	39.01	39.37	39.71	40.09

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