Water-Data Report 2011

353135080524203 Local number IR-132, NCDENR LANGTREE RESEARCH STATION MW-2D NEAR MOUNT MOURNE, NC (BEDROCK)

Piedmont and Blue Ridge crystalline-rock aquifers
Intermediate Intrusive Igneous Rock

Iredell County, NC

LOCATION.--Lat 35°31′36″, long 80°52′42″ referenced to North American Datum of 1983, Iredell County, NC, Hydrologic Unit 03050101, 2.5 mi northwest of Davidson, .1 mi north of Langtree Road at Davidson College Lake Campus. Owner: NCDENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

GROUNDWATER RECORDS

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

DATUM.--Land-surface datum is 802.69 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of instrument shelter floor, 1.40 ft above land-surface datum, March 1, 2001, to present.

PERIOD OF RECORD.--March 2001 to current year.
PRECIPITATION: April 2008 to current year, published as station number 353135080524245.

REVISED RECORDS.--WDR-US-2009: Lowest water level for period of record.

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. Well is affected by local pumping.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 15.46 ft below land-surface datum, June 12, 13, 14, 2003; lowest water level recorded, 27.96 ft below land-surface datum, September 25, 26, 2002.

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DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	19.88	20.38	20.50	20.48	20.37	19.64	18.36	17.94	18.78	20.05	20.94	21.70
2	19.90	20.48	20.48	20.43	20.31	19.62	18.37	17.96	18.86	20.12	20.97	21.73
3	19.94	20.45	20.45	20.44	20.33	19.64	18.41	17.99	18.88	20.16	21.02	21.75
4	19.98	20.34	20.44	20.40	20.27	19.64	---	18.05	18.94	20.23	21.10	21.73
5	19.96	20.35	20.47	20.40	19.96	19.62	---	17.99	18.97	20.29	21.15	21.75
6	19.94	20.42	20.50	20.37	19.78	19.48	---	17.94	19.11	20.34	21.14	21.78
7	---	20.42	20.50	20.32	19.65	19.31	---	17.97	19.21	20.42	21.13	21.80
8	20.01	20.40	20.52	20.36	19.61	19.26	---	18.01	19.20	20.41	21.15	21.81
9	20.08	20.41	20.51	20.41	19.59	19.18	18.69	18.06	19.25	20.09	21.19	21.79
10	20.09	20.42	20.48	20.39	19.53	18.92	18.64	18.09	19.31	19.99	21.26	21.82
11	20.11	20.44	20.45	20.35	19.51	18.76	18.60	---	19.35	19.92	21.31	21.80
12	20.13	20.52	20.36	20.35	19.48	18.67	18.56	---	19.37	19.89	21.36	21.85
13	20.19	20.51	20.40	20.34	19.46	18.66	18.57	---	19.35	19.93	21.38	21.93
14	20.27	20.46	20.55	20.35	19.43	18.67	18.58	18.13	19.34	20.02	21.35	22.06
15	20.37	20.41	20.68	20.36	19.47	18.66	18.61	18.14	19.32	20.10	21.30	22.14
16	20.42	20.34	20.69	20.40	19.46	18.63	18.48	18.19	19.33	20.14	21.30	22.18
17	20.43	20.35	20.70	20.46	19.47	18.61	18.37	18.11	19.39	20.17	21.32	22.18
18	20.42	20.34	20.67	20.45	19.47	18.56	18.32	18.08	19.43	20.20	21.33	22.20
19	20.44	20.36	20.65	20.45	19.46	18.56	18.28	18.08	19.46	20.25	21.36	22.24
20	20.48	20.49	20.64	20.44	19.46	18.58	18.27	18.09	19.51	20.32	21.37	22.27
21	20.50	20.53	20.62	20.43	19.44	18.55	18.26	18.10	19.56	20.34	21.36	22.22
22	20.52	20.53	20.60	20.43	19.49	18.55	18.20	18.14	19.65	20.39	21.38	21.99
23	20.51	20.52	20.61	20.43	19.58	18.57	18.09	18.20	19.65	20.50	21.41	21.83
24	20.49	20.53	20.59	20.43	19.58	18.63	18.10	18.22	19.68	20.60	21.43	21.60
25	20.51	20.52	20.56	20.40	19.55	18.67	18.10	18.26	19.75	20.70	21.45	21.40
26	20.50	20.49	20.52	20.35	19.60	18.65	17.99	18.31	19.82	20.77	21.48	21.17
27	20.48	20.50	20.54	20.37	19.60	18.63	18.09	18.84	19.90	20.79	21.49	20.98
28	20.31	20.55	20.54	20.34	19.61	18.66	18.14	19.57	19.96	20.85	21.51	20.86
29	20.29	20.61	20.54	20.34	---	18.67	17.98	19.36	19.99	20.87	21.58	20.83
30	20.24	20.58	20.52	20.36	---	18.57	17.88	18.96	20.01	20.91	21.64	20.84
31	20.22	---	20.51	20.40	---	18.38	---	18.72	---	20.90	21.66	---
Mean	---	20.45	20.54	20.39	19.66	18.88	---	---	19.41	20.34	21.32	21.74
Max	---	20.61	20.70	20.48	20.37	19.64	---	---	20.01	20.91	21.66	22.27
Min	---	20.34	20.36	20.32	19.43	18.38	---	---	18.78	19.89	20.94	20.83

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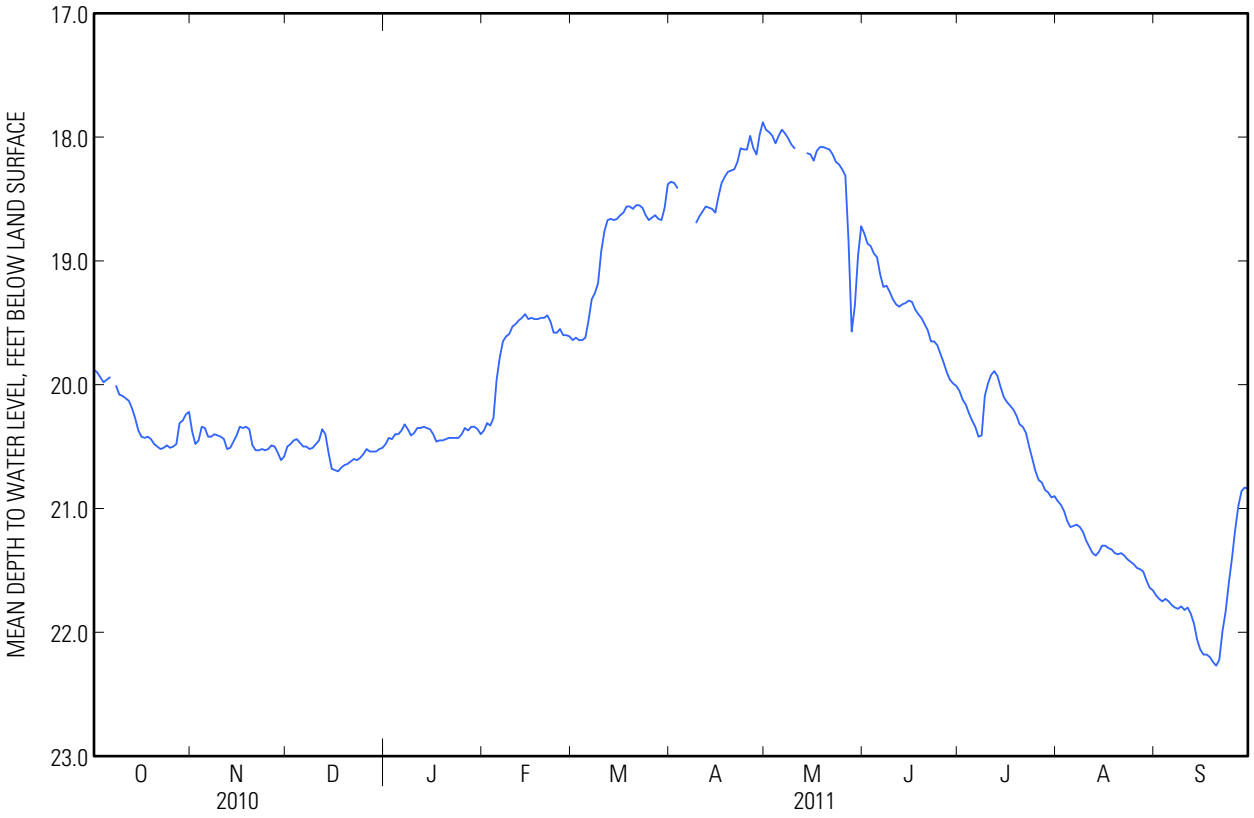
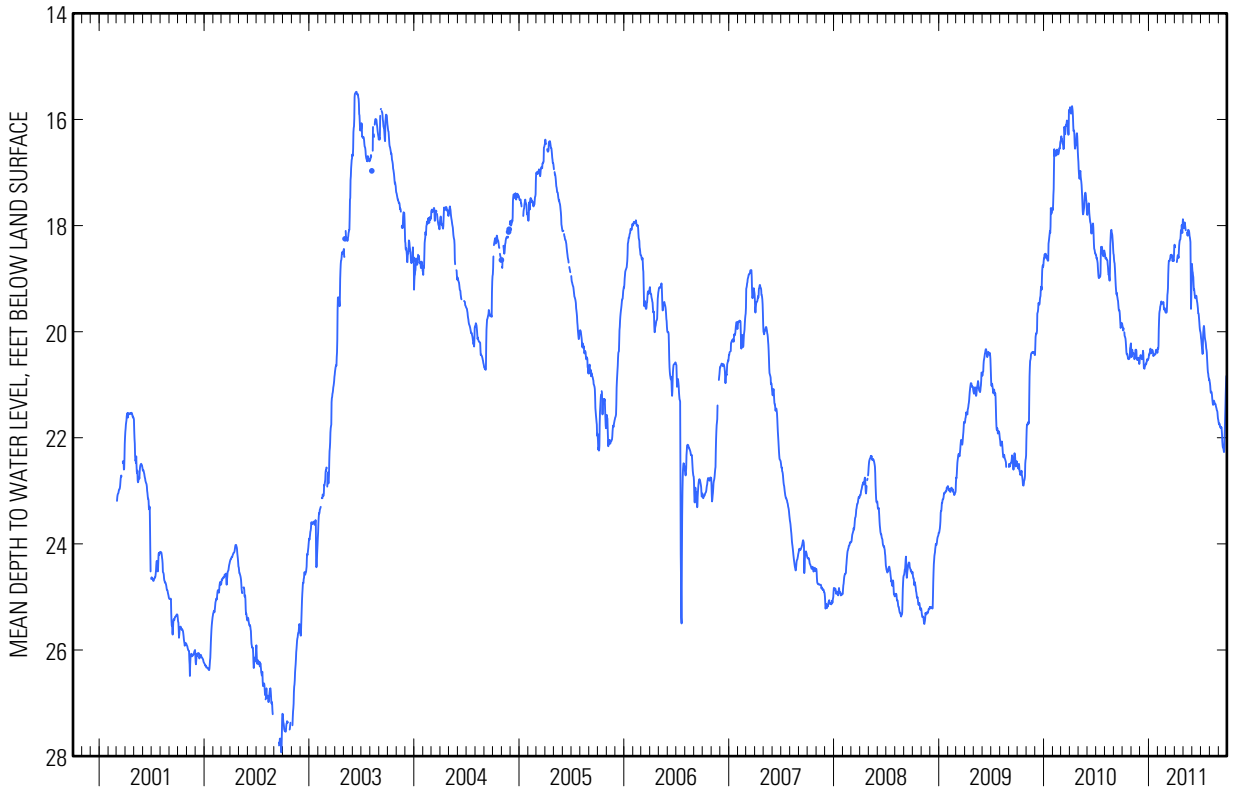
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