

Water-Data Report 2011

355031081243203 Local number CD-102 GRANITE FALLS RESEARCH STATION BEDROCK WELL

Piedmont and Blue Ridge crystalline-rock aquifers
Regolith

Caldwell County, NC

LOCATION.--Lat 35°50'31.50", long 81°24'32.70" referenced to North American Datum of 1983, Caldwell County, NC, Hydrologic Unit 03050101, 3.4 mi east of Granite Falls, NC. Owner: Caldwell County Department of Public Works.

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Drilled observation well, drilled to 320 ft, diameter 6 in., cased to 63 ft, open borehole in bedrock from 63 ft to 320 ft. Instrument shelter attached to side of locking well cap over casing.

DATUM.--Land-surface datum is 1279.02 ft above North American Vertical Datum of 1988 (from DGPS). Measuring point: top of casing, 2.46 ft above land-surface datum, September 2010 to present.

PERIOD OF RECORD.--March to September 2011. Continuous record began March to September 2011.

PRECIPITATION: March to September 2011, published as station 355031081243245.

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

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 19.18 ft below land-surface datum, May 15, 2011; lowest water level recorded, 22.86 ft below land-surface datum, September 30, 2011.

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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	---	---	---	---	---	---	20.82	19.76	19.50	20.07	20.76	22.03
2	---	---	---	---	---	---	20.82	19.76	19.49	20.11	20.77	22.03
3	---	---	---	---	---	---	20.85	19.71	19.51	20.11	20.78	22.03
4	---	---	---	---	---	---	20.75	19.63	19.53	20.14	20.82	22.05
5	---	---	---	---	---	---	20.63	19.64	19.50	20.17	20.91	22.01
6	---	---	---	---	---	---	20.70	19.55	19.49	20.20	20.95	21.98
7	---	---	---	---	---	---	20.62	19.51	19.50	20.20	20.95	22.07
8	---	---	---	---	---	---	20.54	19.47	19.52	20.11	20.96	22.11
9	---	---	---	---	---	---	20.51	19.49	19.53	20.12	20.99	22.14
10	---	---	---	---	---	---	20.47	19.48	19.54	20.19	21.06	22.20
11	---	---	---	---	---	---	20.37	19.44	19.54	20.23	21.12	22.28
12	---	---	---	---	---	---	20.26	19.44	19.54	20.23	21.19	22.34
13	---	---	---	---	---	---	20.29	19.38	19.56	20.25	21.23	22.37
14	---	---	---	---	---	---	20.32	19.31	19.59	20.31	21.20	22.40
15	---	---	---	---	---	---	20.31	19.26	19.61	20.38	21.23	22.42
16	---	---	---	---	---	---	20.12	19.27	19.61	20.41	21.32	22.56
17	---	---	---	---	---	21.71	20.10	19.25	19.66	20.46	21.41	22.62
18	---	---	---	---	---	21.61	20.06	19.30	19.68	20.46	21.43	22.66
19	---	---	---	---	---	21.57	20.02	19.38	19.68	20.44	21.40	22.67
20	---	---	---	---	---	21.61	19.97	19.43	19.69	20.43	21.44	22.69
21	---	---	---	---	---	21.51	19.96	19.44	19.73	20.47	21.48	22.68
22	---	---	---	---	---	21.38	19.97	19.44	19.78	20.54	21.51	22.71
23	---	---	---	---	---	21.24	19.91	19.41	19.78	20.58	21.59	22.67
24	---	---	---	---	---	21.17	19.86	19.39	19.77	20.58	21.65	22.66
25	---	---	---	---	---	21.22	19.82	19.40	19.83	20.54	21.67	22.68
26	---	---	---	---	---	21.18	19.75	19.39	19.90	20.51	21.69	22.69
27	---	---	---	---	---	21.13	19.70	19.36	19.94	20.57	21.66	22.70
28	---	---	---	---	---	21.14	19.64	19.36	19.94	20.65	21.70	22.73
29	---	---	---	---	---	21.14	19.68	19.42	19.96	20.68	21.81	22.75
30	---	---	---	---	---	21.04	19.73	19.47	20.02	20.72	21.92	22.78
31	---	---	---	---	---	20.90	---	19.50	---	20.75	21.99	---
Mean	---	---	---	---	---	---	20.22	19.45	19.66	20.37	21.31	22.42
Max	---	---	---	---	---	---	20.85	19.76	20.02	20.75	21.99	22.78
Min	---	---	---	---	---	---	19.64	19.25	19.49	20.07	20.76	21.98

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