



Water-Data Report 2010

340416078084202 Local number BR-078 (NC-180), NCDENR BOLIVIA RESEARCH STATION FF33D2, AT BOLIVIA, NC

Northern Atlantic Coastal Plain aquifer system
Peedee Formation
Brunswick County, NC

LOCATION.--Lat 34°04'17", long 78°08'41" referenced to North American Datum of 1983, Brunswick County, NC, Hydrologic Unit 03040207, in Bolivia at town hall on U.S. Highway 17. Owner: NCDENR (North Carolina Department of Environment and Natural Resources).

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Drilled observation well, depth 140 ft, diameter 4 in., cased to 92 ft, open hole to 140 ft.

DATUM.--Land-surface datum is 40.97 ft above NGVD of 1929. Measuring point: Top of casing, 0.89 ft above land-surface datum, March 11, 1999 to present.

PERIOD OF RECORD.--April 1971 to current year. Continuous record May 1987 to September 1997, January 2000 to current year.

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

REMARKS.--Well is part of Brunswick County groundwater monitoring network.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.05 ft below land-surface datum, May 22, 1972; lowest water level recorded, 15.07 ft below land-surface datum, September 4, 1995.

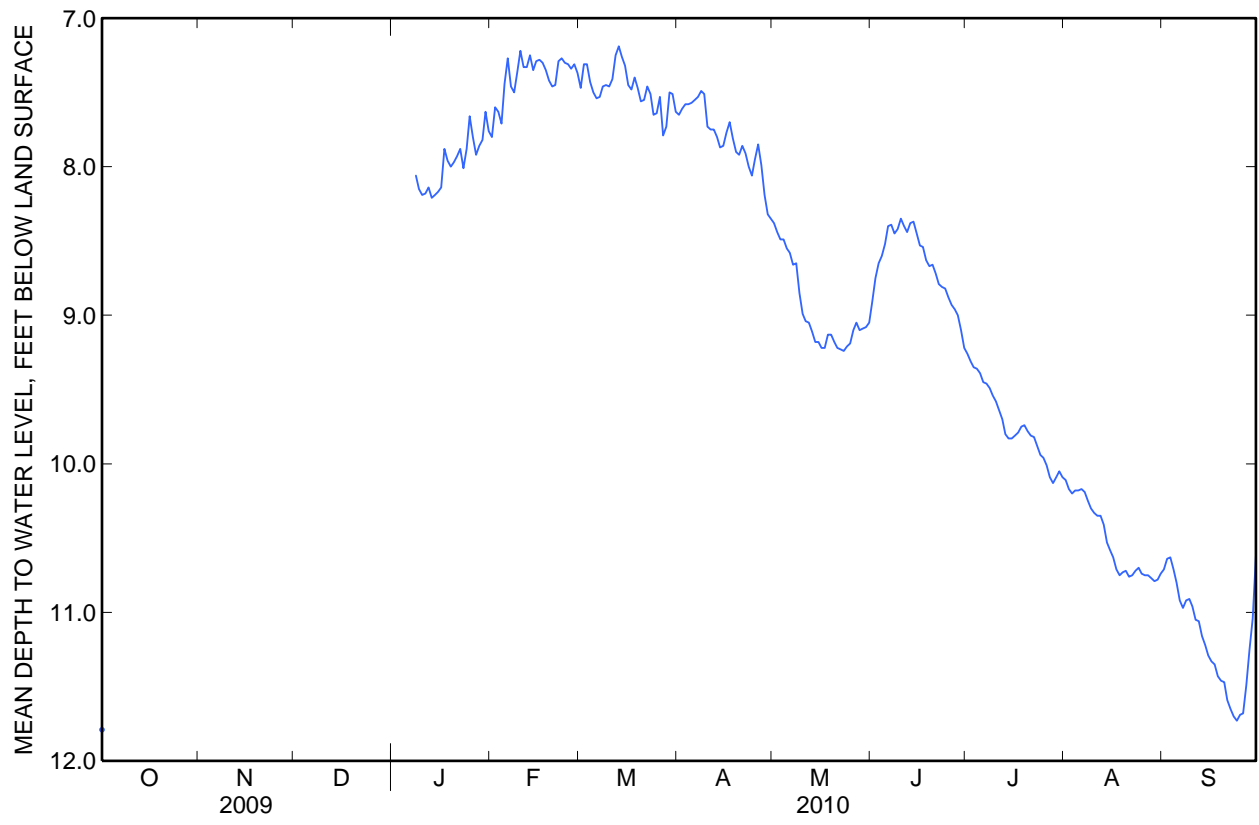
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DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

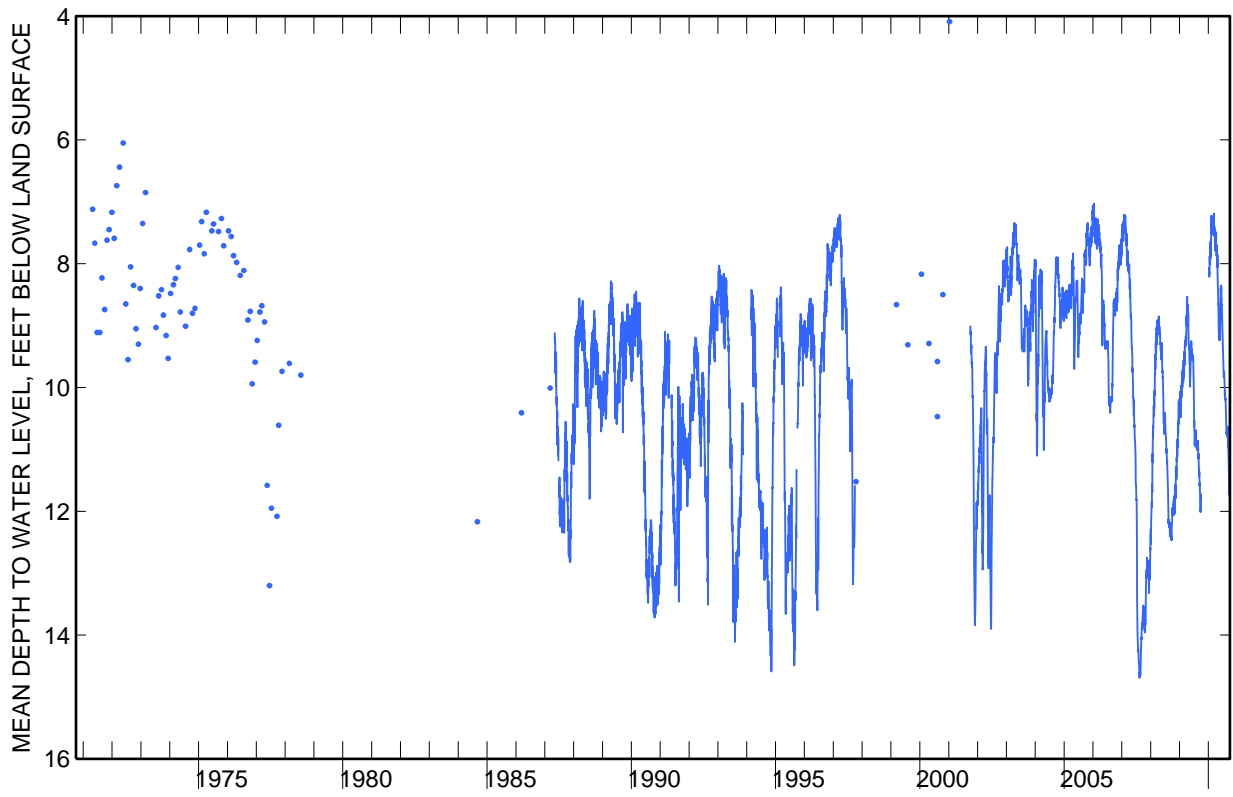
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	11.79	---	---	---	7.80	7.47	7.65	8.38	8.91	9.26	10.11	10.71
2	---	---	---	---	7.60	7.31	7.61	8.44	8.75	9.31	10.17	10.64
3	---	---	---	---	7.63	7.31	7.58	8.49	8.65	9.35	10.20	10.63
4	---	---	---	---	7.71	7.43	7.58	8.49	8.60	9.36	10.18	10.71
5	---	---	---	---	7.44	7.50	7.57	8.55	8.52	9.39	10.18	10.80
6	---	---	---	---	7.27	7.54	7.55	8.58	8.40	9.45	10.17	10.92
7	---	---	---	---	7.46	7.53	7.53	8.66	8.39	9.46	10.19	10.97
8	---	---	---	8.06	7.50	7.46	7.49	8.65	8.45	9.49	10.25	10.92
9	---	---	---	8.15	7.36	7.45	7.51	8.85	8.42	9.54	10.30	10.91
10	---	---	---	8.19	7.22	7.46	7.73	8.99	8.35	9.58	10.33	10.96
11	---	---	---	8.18	7.33	7.41	7.75	9.04	8.40	9.64	10.35	11.05
12	---	---	---	8.14	7.33	7.25	7.75	9.05	8.44	9.70	10.35	11.06
13	---	---	---	8.21	7.25	7.19	7.80	9.11	8.38	9.80	10.41	11.16
14	---	---	---	8.19	7.35	7.26	7.87	9.18	8.37	9.83	10.53	11.22
15	---	---	---	8.17	7.29	7.32	7.86	9.18	8.45	9.83	10.58	11.29
16	---	---	---	8.14	7.28	7.45	7.77	9.22	8.53	9.81	10.63	11.33
17	---	---	---	7.88	7.30	7.48	7.70	9.22	8.54	9.79	10.71	11.35
18	---	---	---	7.96	7.35	7.40	7.81	9.13	8.63	9.75	10.75	11.43
19	---	---	---	8.00	7.42	7.47	7.90	9.13	8.67	9.74	10.73	11.46
20	---	---	---	7.97	7.46	7.56	7.92	9.18	8.66	9.78	10.72	11.47
21	---	---	---	7.93	7.45	7.55	7.86	9.22	8.72	9.81	10.76	11.59
22	---	---	---	7.88	7.29	7.46	7.91	9.23	8.79	9.82	10.75	11.65
23	---	---	---	8.01	7.27	7.51	8.00	9.24	8.81	9.88	10.72	11.70
24	---	---	---	7.88	7.30	7.65	8.06	9.21	8.82	9.94	10.70	11.73
25	---	---	---	7.66	7.31	7.64	7.95	9.19	8.88	9.96	10.74	11.69
26	---	---	---	7.80	7.34	7.53	7.85	9.10	8.93	10.01	10.75	11.68
27	---	---	---	7.92	7.31	7.79	7.99	9.05	8.96	10.09	10.75	11.49
28	---	---	---	7.86	7.37	7.73	8.19	9.10	9.00	10.13	10.77	11.25
29	---	---	---	7.82	---	7.50	8.32	9.09	9.10	10.09	10.79	11.04
30	---	---	---	7.63	---	7.51	8.35	9.08	9.22	10.05	10.78	10.62
31	---	---	---	7.76	---	7.63	---	9.05	---	10.09	10.74	---
Mean	11.79	---	---	7.97	7.39	7.48	7.81	8.97	8.66	9.73	10.52	11.18
Max	11.79	---	---	8.21	7.80	7.79	8.35	9.24	9.22	10.13	10.79	11.73
Min	11.79	---	---	7.63	7.22	7.19	7.49	8.38	8.35	9.26	10.11	10.62

Water Year 2010	
Mean	8.90
High	7.19
Low	11.79

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2000, 2010.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**[ft, feet; mg/L, milligrams per liter; °C, degrees Celsius; μ S/cm, microsiemens per centimeter]

Date	Sample start time	Medium name	Sample type	Depth to water level, ft below land surface (72019)	Specific conduc tance, water, unfiltered, μS/cm at 25 °C (00095)	Tempera ture, water, °C (00010)	Chloride, water, filtered, mg/L (00940)
09-01-2010	1250	Ground water	Regular	10.72	303	21.5	17.5