

Water-Data Report 2011

**260545080082001 Local number G 561. USGS Observation Well at Fort Lauderdale, FL.**

Biscayne aquifer  
Biscayne Limestone Aquifer

Broward County, FL

LOCATION.--Lat 26°05'45", long 80°08'20" referenced to North American Datum of 1927, in NE ¼ SE ¼ SE ¼ sec.15, T.50 S., R.42 E., Broward County, FL, Hydrologic Unit 03090202, at SE 4th Avenue and 20th Street in Fort Lauderdale, 0.2 mi west of U.S. Highway 1, and 0.3 mi north of State Road 84.

**GROUNDWATER RECORDS**

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 20 ft, cased to 20 ft.

DATUM.--Land-surface datum is 8.50 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of base, 11.92 ft above National Geodetic Vertical Datum of 1929 (NGVD), Oct. 4, 2007, to present. From Oct. 29, 2003, to Sept. 23, 2007, measuring point was top of base, 11.40 ft above NGVD. From May 21, 1987, to Oct. 29, 2003, measuring point was top of shelf, 10.11 ft above NGVD. From Feb. 9, 1948, to May 21, 1987, measuring point was top of casing, 9.85 ft above NGVD. From October 1991 to October 1998, measuring point was incorrectly considered to be 10.12 ft above NGVD. From February 24, 1986 to March 1987, measuring point was top of shelf, 9.90 ft above NGVD. From February 9, 1948 to February 24, 1986, measuring point was 9.85 ft above NGVD. Prior to September 1982, measuring point was reported as top of casing, 10.95 ft above NGVD. See REMARKS.

PERIOD OF RECORD.--February 1948 to current year.

GAGE.--Electronic data logger.

REMARKS.--Station damaged September 23, 2007. Repaired and releveled October 4, 2007, new measuring point of 11.925 ft established. On May 2003, it was noted that the casing of the well at land surface had corroded through and the well casing above land surface was unstable. The station was reconstructed in October 2003 to stabilize the well casing. A check of the measuring point elevation conducted prior to reconstruction indicated that the measuring point elevation was 10.13 ft above NGVD. The measuring point elevation was 10.11 ft above NGVD when surveyed in May 1987. Water-level data collected from March 1987 to October 2003 may be in error by -0.02 ft. An incorrect measuring point elevation was used from October 1991 to October 1998. Published records of water level as elevation from this period are in error by +0.01 ft. Because these changes in the measuring point are minor, historical water level elevation data have not been corrected. Records of water levels prior to January 1957 are available in files of the U.S. Geological Survey. See DATUM and PERIOD OF RECORD.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.40 ft NGVD, Oct. 5, 1948; lowest, 0.05 ft NGVD, July 2, 1952.

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**ELEVATION ABOVE NGVD 1929, FEET**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**  
**DAILY MAXIMUM VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	2.13	1.83	1.58	1.38	1.04	1.65	1.66	1.18	2.16	1.98	3.09
2	3.78	2.07	1.81	1.56	1.36	1.06	1.60	1.64	1.15	2.17	2.03	3.04
3	3.61	2.06	1.78	1.53	1.33	1.11	1.55	1.60	1.13	2.16	2.06	3.04
4	3.47	2.28	1.76	1.51	1.31	1.14	1.49	1.53	1.13	2.20	2.07	3.02
5	3.35	2.28	1.75	1.48	1.27	1.19	1.43	1.47	1.12	2.21	2.06	2.92
6	3.29	2.24	1.74	1.43	1.26	1.35	1.41	1.43	1.11	2.18	2.11	2.95
7	3.21	2.19	1.72	1.43	1.25	1.37	1.36	1.41	1.16	2.75	2.13	2.97
8	3.15	2.15	1.71	1.42	1.23	1.36	1.32	1.39	1.21	2.76	2.17	3.19
9	3.11	2.13	1.71	1.41	1.21	1.33	1.30	1.36	1.27	2.75	2.50	3.32
10	3.06	2.11	1.71	1.39	1.19	1.36	1.26	1.35	1.34	2.73	2.58	3.32
11	2.98	2.09	1.70	1.39	1.18	1.36	1.26	1.33	1.38	2.59	2.58	3.27
12	2.92	2.05	1.70	1.37	1.17	1.32	1.26	1.36	1.41	2.49	2.53	3.65
13	3.12	2.04	1.69	1.35	1.16	1.28	1.28	1.39	1.43	2.37	2.59	3.65
14	3.11	2.06	1.67	1.33	1.16	1.24	1.40	1.48	1.43	2.30	2.65	3.44
15	3.05	2.08	1.65	1.32	1.16	1.21	1.42	1.63	1.42	2.22	2.65	3.32
16	2.94	2.09	1.63	1.31	1.16	1.18	1.46	1.64	1.40	2.16	2.66	3.15
17	2.85	2.09	1.61	1.43	1.16	1.17	1.55	1.65	1.37	2.08	2.62	3.05
18	2.77	2.08	1.92	1.45	1.16	1.16	1.59	1.64	1.35	2.03	2.55	2.92
19	2.71	2.04	1.95	1.45	1.16	1.15	1.59	1.62	1.33	2.26	2.49	2.81
20	2.65	2.00	1.94	1.43	1.14	1.14	1.55	1.58	1.44	2.34	2.53	2.72
21	2.60	1.98	1.88	1.43	1.14	1.14	1.50	1.54	1.47	2.34	2.52	2.65
22	2.55	2.03	1.80	1.45	1.13	1.12	1.44	1.50	1.48	2.31	2.51	2.59
23	2.49	2.02	1.73	1.44	1.10	1.10	1.41	1.42	1.49	2.26	2.43	2.64
24	2.46	1.97	1.70	1.42	1.09	1.08	1.38	1.38	1.59	2.21	2.39	2.64
25	2.46	1.95	1.67	1.39	1.09	1.05	1.37	1.34	1.63	2.14	2.88	2.60
26	2.39	1.94	1.69	1.67	1.08	1.03	1.35	1.31	1.87	2.13	2.89	2.59
27	2.33	1.91	1.68	1.66	1.06	1.02	1.35	1.30	1.90	2.09	2.87	2.57
28	2.25	1.89	1.64	1.60	1.05	1.66	1.33	1.29	1.93	2.07	2.87	2.57
29	2.18	1.88	1.62	1.54	---	1.75	1.29	1.27	1.95	2.02	2.89	2.55
30	2.10	1.85	1.60	1.49	---	1.75	1.66	1.25	2.13	1.95	2.90	2.51
31	2.09	---	1.59	1.42	---	1.69	---	1.21	---	1.94	3.09	---
<b>Total</b>	---	61.68	53.58	45.08	33.14	38.91	42.81	44.97	43.20	70.37	77.78	88.75
<b>Mean</b>	---	2.06	1.73	1.45	1.18	1.26	1.43	1.45	1.44	2.27	2.51	2.96
<b>Max</b>	---	2.28	1.95	1.67	1.38	1.75	1.66	1.66	2.13	2.76	3.09	3.65
<b>Min</b>	---	1.85	1.59	1.31	1.05	1.02	1.26	1.21	1.11	1.94	1.98	2.51

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