

Water-Data Report 2011

263251081452801 Local number L 1993.

Intermediate aquifer system
Hawthorn Limestone Aquifer

Lee County, FL

LOCATION.--Lat 26°32'52", long 81°45'37" referenced to North American Datum of 1927, in NE ¼ NE ¼ SE ¼ sec.24, T.45 S., R.25 E., Lee County, FL, Hydrologic Unit 03090204, 2 mi east of intersection of U.S. Interstate 75 and Daniels Road, 0.3 mi north of airport access road on dirt road and 9.6 mi southeast of Fort Myers Post Office.

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Depth 242 ft. Upper casing diameter 4 in.; top of first opening 190 ft, bottom of last opening 242 ft. Artesian well, open hole 190 to 242 ft.

DATUM.--Land-surface datum is 24 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. casing, 25.19 ft above National Geodetic Vertical Datum of 1929 (NGVD), Oct. 22, 2004, to present. From Mar. 15, 2001, to Oct. 22, 2004, measuring point was Top of recorder shelf, 27.37 ft above NGVD. From Jan. 3, 1985, to Mar. 15, 2001, measuring point was Top of shelf, 27.22 ft above NGVD. From Mar. 19, 1983, to Jan. 2, 1985, Top of shelf was 27.24 ft above NGVD. From Dec. 1974 to Mar. 18, 1983, Top of shelf was 27.29 ft above NGVD.

The figures of water levels as elevation, in feet NGVD, prior to October 1, 2001 are in error. From March 15, 2001 to September 30, 2001, measuring point was incorrectly considered to be 28.06 ft above NGVD. From January 3, 1985 to March 15, 2001, top of shelf was 27.22 ft above NGVD, but was incorrectly considered to be 27.91 ft above NGVD. From March 19, 1983 to January 2, 1985, top of shelf was 27.24 ft above NGVD, but was incorrectly considered to be 27.93 ft above NGVD. Prior to March 18, 1983, top of shelf was 27.29 ft above NGVD, but was incorrectly considered to be 27.98 ft above NGVD. See REMARKS.

PERIOD OF RECORD.--December 1974 to current year.

GAGE.--Satellite data collection platform with pressure transducer.

REMARKS.--On December 11, 2002, the site was surveyed and the land-surface datum was found to be 23.95 ft above NGVD, not 24.64 ft above NGVD as previously reported. Therefore, a -0.69 ft correction has been applied to water-level elevation data prior to October 1, 2001. Corrected records are available in the files of the U.S. Geological Survey. The station has been reconstructed on March 9, 1978, March 19, 1983, January 3, 1985, March 15, 2001 and October 22, 2004. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 26.10 ft NGVD Nov. 13, 1975 (present datum); lowest, 4.24 ft below NGVD, Aug. 22, 2011. See REMARKS.

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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 | 5.91 | 4.66 | 3.97 | 3.02 | 2.89 | 2.23 | 1.40 | -0.12 | -0.49 | -0.20 | 1.55 | 2.06 |
| 2 | 5.89 | 4.80 | 3.92 | 2.99 | 2.82 | 2.18 | 0.64 | -0.13 | -0.43 | -0.13 | 1.64 | 2.24 |
| 3 | 5.86 | 4.95 | 3.88 | 2.99 | 2.88 | 2.17 | 0.01 | -0.43 | -0.54 | -0.10 | 1.68 | 2.40 |
| 4 | 5.81 | 5.14 | 3.78 | 3.11 | 2.85 | 2.11 | -0.43 | -0.36 | -1.25 | -0.11 | 1.69 | 2.51 |
| 5 | 5.83 | 5.11 | 3.73 | 3.10 | 2.82 | 2.04 | -0.66 | -0.50 | -1.10 | -0.01 | 1.70 | 2.63 |
| 6 | 5.84 | 4.95 | 3.66 | 3.25 | 2.77 | 2.01 | -0.89 | -0.32 | -1.09 | 0.09 | 1.58 | 2.91 |
| 7 | 5.83 | 4.73 | 3.68 | 3.29 | 2.68 | 1.95 | -1.08 | -0.28 | -1.16 | 0.21 | 1.68 | 3.00 |
| 8 | 5.81 | 4.67 | 3.63 | 3.26 | 2.69 | 1.94 | -1.21 | -0.39 | -1.11 | 0.28 | 1.72 | 3.10 |
| 9 | 5.80 | 4.75 | 3.62 | 3.12 | 2.71 | 1.93 | -1.35 | -0.39 | -0.95 | 0.31 | 1.83 | 3.18 |
| 10 | 5.79 | 4.71 | 3.60 | 3.01 | 2.77 | 1.97 | -1.46 | -0.30 | -0.95 | 0.32 | 1.99 | 3.28 |
| 11 | 5.78 | 4.62 | 3.52 | 3.00 | 2.75 | 1.96 | -1.60 | -0.30 | -0.96 | 0.38 | 2.12 | 3.33 |
| 12 | 5.76 | 4.60 | 3.50 | 2.99 | 2.61 | 1.92 | -1.67 | -0.24 | -1.01 | 0.47 | 2.18 | 3.44 |
| 13 | 5.73 | 4.51 | 3.50 | 2.95 | 2.49 | 1.80 | -1.74 | -0.10 | -1.08 | 0.56 | 2.21 | 3.54 |
| 14 | 5.75 | 4.47 | 3.41 | 2.93 | 2.46 | 1.70 | -1.85 | -0.11 | -0.95 | 0.63 | 2.26 | 3.61 |
| 15 | 5.72 | 4.42 | 3.41 | 2.89 | 2.57 | 1.75 | -1.94 | 0.00 | -0.97 | 0.66 | 2.29 | 3.64 |
| 16 | 5.67 | 4.45 | 3.44 | 2.86 | 2.52 | 1.71 | -2.02 | -0.04 | -0.94 | 0.69 | 2.31 | 3.67 |
| 17 | 5.61 | 4.41 | 3.42 | 2.87 | 2.58 | 1.72 | -2.12 | -0.03 | -0.98 | 0.79 | 2.07 | 3.74 |
| 18 | 5.47 | 4.35 | 3.42 | 2.94 | 2.51 | 1.65 | -2.24 | -0.06 | -0.92 | 0.86 | 1.99 | 3.78 |
| 19 | 5.46 | 4.29 | 3.41 | 2.90 | 2.46 | 1.56 | -2.35 | -0.13 | -0.93 | 0.92 | 1.83 | 3.87 |
| 20 | 5.45 | 4.17 | 3.33 | 2.94 | 2.42 | 1.48 | -1.99 | -0.15 | -1.01 | 0.95 | 0.84 | 3.92 |
| 21 | 5.37 | 4.08 | 3.33 | 2.92 | 2.37 | 1.38 | -1.39 | -0.21 | -1.00 | 0.97 | 0.86 | 3.95 |
| 22 | 5.35 | 4.02 | 3.30 | 2.89 | 2.44 | 1.48 | -1.00 | -0.27 | -1.00 | 1.05 | -4.24 | 3.99 |
| 23 | --- | 4.13 | 3.36 | 2.72 | 2.43 | 1.47 | -0.74 | -0.35 | -0.89 | 1.13 | -2.54 | 4.06 |
| 24 | --- | 4.08 | 3.30 | 2.65 | 2.43 | 1.45 | -0.55 | -0.28 | -0.87 | 1.22 | -1.13 | 4.12 |
| 25 | 4.99 | 4.11 | 3.28 | 2.84 | 2.43 | 1.45 | -0.35 | -0.29 | -0.75 | 1.31 | -0.23 | 4.16 |
| 26 | 5.05 | 4.09 | 3.28 | 2.91 | 2.33 | 1.34 | -0.23 | -0.30 | -0.62 | 1.36 | 0.32 | 4.26 |
| 27 | 5.01 | 4.02 | 3.10 | 2.96 | 2.23 | 1.26 | -0.16 | -0.31 | -0.54 | 1.38 | 0.76 | 4.33 |
| 28 | 4.99 | 3.92 | 3.10 | 2.95 | 2.15 | 1.20 | -0.15 | -0.38 | -0.40 | 1.41 | 1.07 | 4.41 |
| 29 | 4.99 | 3.92 | 3.10 | 2.85 | --- | 1.33 | -0.08 | -0.44 | -0.29 | 1.48 | 1.32 | 4.47 |
| 30 | 4.86 | 4.00 | 3.15 | 2.78 | --- | 1.31 | -0.19 | -0.55 | -0.19 | 1.51 | 1.54 | 4.58 |
| 31 | 4.76 | --- | 3.13 | 2.75 | --- | 1.44 | --- | -0.47 | --- | 1.52 | 1.73 | --- |
| Mean | --- | 4.44 | 3.46 | 2.96 | 2.57 | 1.71 | -0.98 | -0.27 | -0.85 | 0.71 | 1.18 | 3.54 |
| Max | --- | 5.14 | 3.97 | 3.29 | 2.89 | 2.23 | 1.40 | 0.00 | -0.19 | 1.52 | 2.31 | 4.58 |
| Min | --- | 3.92 | 3.10 | 2.65 | 2.15 | 1.20 | -2.35 | -0.55 | -1.25 | -0.20 | -4.24 | 2.06 |

