



Water-Data Report 2012

264517082022101 Local number L 1059.

Intermediate aquifer system
Hawthorn Limestone Aquifer

Lee County, FL

LOCATION.--Lat 26°45'15.92", long 82°02'19.42" referenced to North American Datum of 1983, Lee County, FL, Hydrologic Unit 03100103, 48 ft west of County Road 765, 8.0 mi north of Pine Island Road (State Road 78), and 8.8 mi northeast of Matlacha Post Office.

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Depth 189 ft. Upper casing diameter 2; top of first opening 156 ft, bottom of last opening 189 ft. Artesian well, open hole 156 to 189 ft.

DATUM.--Land-surface datum is 10.6 ft above National Geodetic Vertical Datum of 1929. Measuring point: From Oct. 12, 2011, to present, measuring point has been top of casing, 13.84 ft above National Geodetic Vertical Datum of 1929 (NGVD). From Sept. 12, 2007, to Sept. 16, 2011, measuring point was top of casing, 13.70 ft above NGVD. From April 29, 2004, to July 19, 2007, measuring point was top of casing, 13.95 ft above NGVD. From Oct. 1, 1994, to April 29, 2004, measuring point was top of bushing, 14.42 ft above NGVD. From Oct. 1, 1993, to Sept. 30, 1994, measuring point was top of casing, 13.81 ft above NGVD. From Oct. 1, 1980, to Sept. 30, 1993, measuring point was top of casing, 12.89 ft above NGVD. From May 1970 to Sept. 30, 1980, measuring point was top of casing, 10.71 ft above NGVD. From September 1994 to September 1997, measuring point was incorrectly considered to be 14.17 ft above NGVD. See REMARKS.

PERIOD OF RECORD.--May 1970 to December 1974 (bimonthly), January 1975 to September 2009 (monthly), October 2009 to October 2012 (discontinued).

GAGE.--Bimonthly measurement with chalked tape.

REMARKS.--Well was monitored for salinity until September 2004. The well was originally open to the aquifer from depth of 156 to 189 ft. The open-hole portion of the well has collapsed or become obstructed. Chloride concentration samples were collected from a depth of 156 ft. Records of water levels prior to October 1975 are available in files of the U.S. Geological Survey. The figures of water level as elevation, in feet NGVD, from September 28, 1994 to September 1997 are in error. A +0.25 ft correction has been applied to correct the records. Corrected records are in files of the U.S. Geological Survey. Station rebuilt September 1994, repaired April 2004, and October 2011. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.9 ft NGVD, Jan. 30, 1980; lowest, 0.38 ft NGVD, Dec. 20, 2000.

**WATER SURFACE ELEVATION IN FEET NGVD 1929
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

[Measurement method: S, steel tape. Water-level status: --, static.]

Date	Water level	Measure-ment method	Water-level status	Date	Water level	Measure-ment method	Water-level status
Oct 12	11.00	S	--	Apr 19	6.40	S	--
21	11.65	S	--	Jun 18	7.05	S	--
Dec 30	9.58	S	--	Aug 29	11.41	S	--
Feb 15	8.26	S	--				

Water year 2012 lowest: 6.40, Apr 19, 2012, highest: 11.65, Oct 21, 2011