

Martin County

WATER RESOURCES DATA - FLORIDA, 2004

VOLUME 2B: SOUTH FLORIDA

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MARTIN COUNTY

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VOLUME 2B: SOUTH FLORIDA

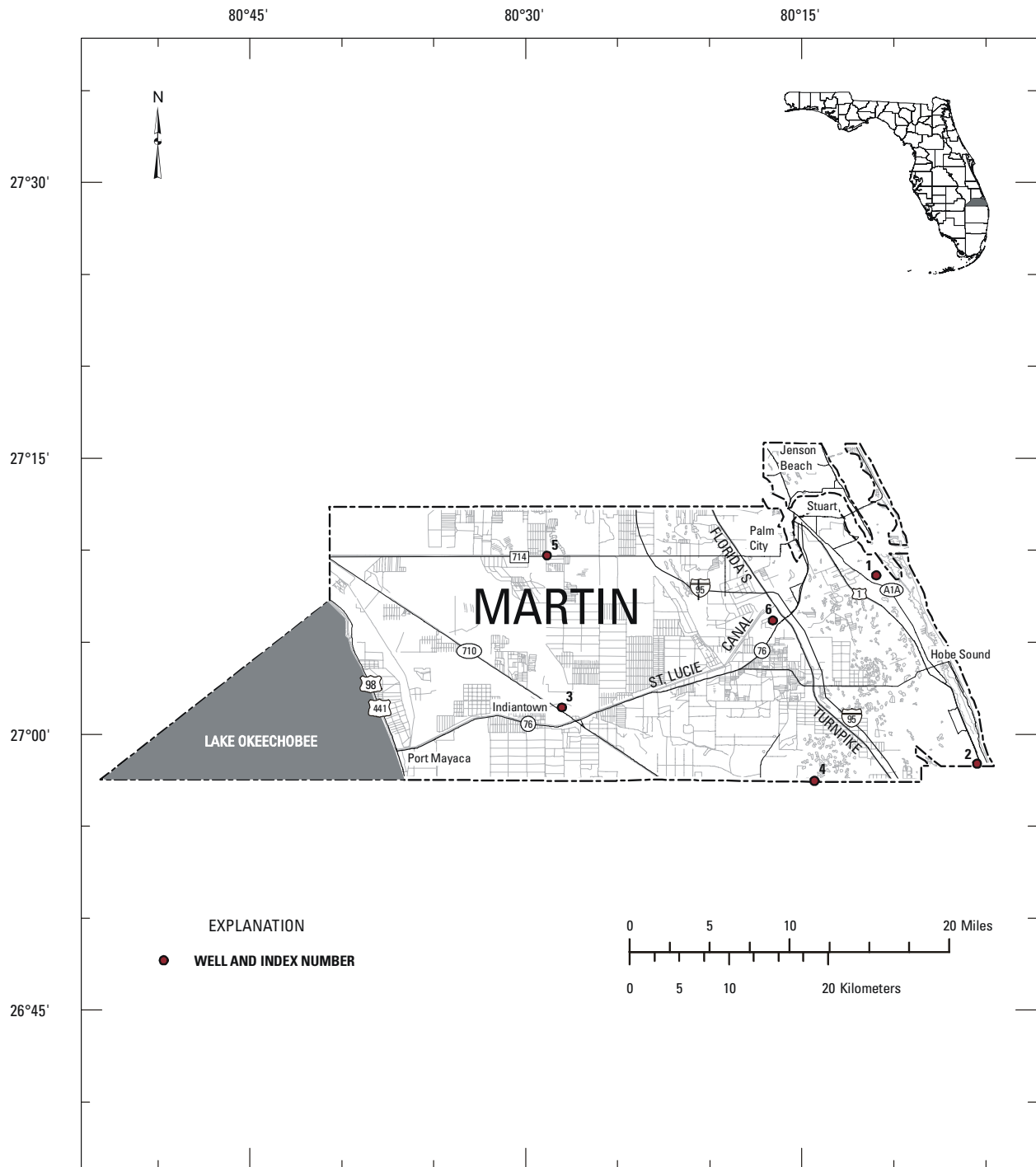


Figure 18. Location of wells in Martin County

MARTIN COUNTY

WELL NUMBER.--265725080141801. Local Number M 1234. USGS Observation Well near Jupiter, Fl.

LOCATION.--Lat 26°57'25", long 80°14'18", in SW 1/4 SW 1/4 SW 1/4 sec.27, T.40 S., R.41 E., Hydrologic Unit 03090202, located on Old Indiantown Road, 0.6 mi northwest of Mellen Lane, 4.6 mi west of the junction of State Road 706 and Florida Turnpike near Jupiter, Fl. (Corrected).

AQUIFER.--Surficial aquifer system, Geologic Unit 110 SAQS.

WELL CHARACTERISTICS.--Driven, observation, water-table well, diameter 6 in., depth 18 ft, cased to 18 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 23.65 ft above National Geodetic Vertical Datum of 1929.

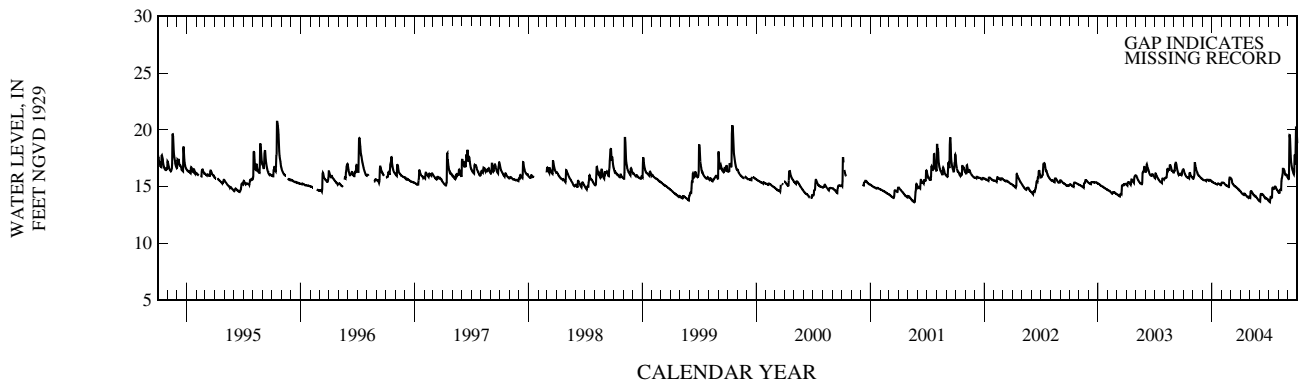
LAND-SURFACE DATUM.--Land surface is approximately 21.2 ft above NGVD.

PERIOD OF RECORD.--October 1988 to August 1989 (semiannual), August 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 20.71 ft NGVD, Oct. 17, 18, 1995; lowest, 13.46 ft NGVD, May 29, 1990.

ELEVATION ABOVE NGVD 1929, FEET
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
 DAILY MAXIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5 | 16.19 | 16.05 | 15.57 | 15.35 | 15.35 | 15.37 | 14.43 | 14.59 | 14.34 | 13.86 | 14.70 | 19.54 |
| 10 | 15.89 | 16.61 | 15.55 | 15.31 | 15.25 | 15.14 | 14.28 | 14.41 | 14.29 | 14.02 | 15.47 | 17.26 |
| 15 | 15.81 | 16.18 | 15.61 | 15.23 | 15.10 | 15.01 | 14.36 | 14.20 | 14.16 | 14.82 | 16.57 | 16.43 |
| 20 | 16.14 | 15.97 | 15.58 | 15.27 | 15.04 | 14.89 | 14.18 | 14.14 | 13.98 | 15.01 | 16.42 | 16.31 |
| 25 | 15.96 | 15.80 | 15.59 | 15.20 | 15.63 | 14.78 | 14.05 | 13.94 | 13.90 | 14.81 | 16.07 | 18.87 |
| EOM | 15.74 | 15.67 | 15.45 | 15.28 | 15.76 | 14.62 | 14.03 | 13.74 | 13.75 | 14.55 | 15.77 | 18.83 |
| MAX | 16.52 | 17.07 | 15.66 | 15.42 | 15.80 | 15.72 | 14.60 | 14.59 | 14.36 | 15.01 | 16.57 | 20.13 |



MARTIN COUNTY—Continued

WELL NUMBER.--265822080052701. Local Number M 1024. USGS Observation Well near Tequesta, FL.

LOCATION.--Lat 26°58'22", long 80°05'27", in NE 1/4 SW 1/4 SW 1/4 sec.19, T.40 S., R.43 E., Hydrologic Unit 03090202, in Tequesta Park, 0.2 mi north of County Line Road.

AQUIFER.--Surficial aquifer system, Geologic Unit 110 SAQS.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 83 ft, cased to 80 ft.

INSTRUMENTATION.-- Electronic data logger.

DATUM.--Measuring point: Top of base, 26.02 ft above National Geodetic Vertical Datum of 1929. From February 1993 to September 1993, the measuring point was incorrectly considered to be 25 ft above NGVD. Prior to February 1993, measuring point was top of casing, 26.10 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 24.5 ft above NGVD.

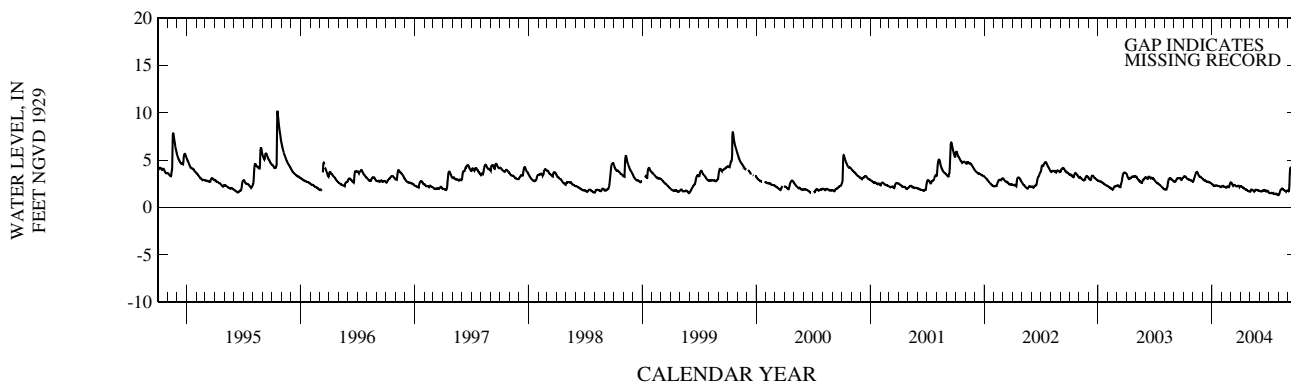
REMARKS.--Well is affected by pumping in area. The well was originally open to the aquifer from 80 to 83 ft. The casing interval has collapsed or become obstructed at a depth of 69 ft. The published figures of water level as elevation, in feet NGVD, from February 1993 to September 1993, are in error. A +1.02 ft correction has been applied to the water-level data. Corrected records are in files of the U.S. Geological Survey. Records of water levels from October 1978 to May 1982 are available in the files of the U.S. Geological Survey.

PERIOD OF RECORD.--December 1975 to April 1979 (daily), May 1982 (intermittent), February 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 10.14 ft NGVD, Oct. 18, 19, 1995; lowest, 0.52 ft NGVD, Feb. 22, 1976.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| 5 | 3.31 | 3.12 | 2.94 | 2.34 | 2.29 | 2.50 | 2.21 | 1.88 | 1.73 | 1.53 | 1.60 | 2.47 |
| 10 | 3.17 | 3.61 | 2.86 | 2.30 | 2.20 | 2.36 | 2.06 | 1.84 | 1.72 | 1.53 | 1.95 | 4.24 |
| 15 | 3.01 | 3.72 | 2.72 | 2.35 | 2.12 | 2.31 | 1.95 | 1.68 | 1.83 | 1.53 | 1.92 | 3.78 |
| 20 | 2.93 | 3.34 | 2.71 | 2.29 | 2.25 | 2.24 | 1.88 | 1.87 | 1.77 | 1.43 | 1.81 | 3.35 |
| 25 | 2.87 | 3.22 | 2.64 | 2.25 | 2.22 | 2.31 | 1.76 | 1.85 | 1.79 | 1.44 | 1.67 | 3.85 |
| EOM | 2.75 | 3.09 | 2.51 | 2.18 | 2.63 | 2.27 | 1.73 | 1.79 | 1.60 | 1.31 | 1.77 | 6.30 |
| MAX | 3.31 | 3.76 | 3.07 | 2.47 | 2.63 | 2.65 | 2.27 | 1.91 | 1.83 | 1.57 | 2.00 | 6.69 |



MARTIN COUNTY—Continued

WELL NUMBER.--270124080280202. Local Number M 1048. USGS Observation Well in Indiantown, FL.

LOCATION.--Lat 27°01'24", long 80°28'02", in NE 1/4 NE 1/4 SE 1/4 sec.6, T.40 S., R.39 E., Hydrologic Unit 03090202, near intersection of SW Washington Avenue and SW Osceola Street, 0.1 mi northeast of State Road 710. (Corrected).

AQUIFER.--Surficial aquifer system, Geologic Unit 110 SAQS.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 80 ft, cased to 25 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of base, 35.70 ft above National Geodetic Vertical Datum of 1929. From September 1992 to May 4, 2001, top of base was 35.63 ft above NGVD. Prior to October 1992, measuring point was top of casing, 35.61 ft above NGVD. Prior to October 1990, top of casing was considered to be 35.83 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 32.8 ft above NGVD.

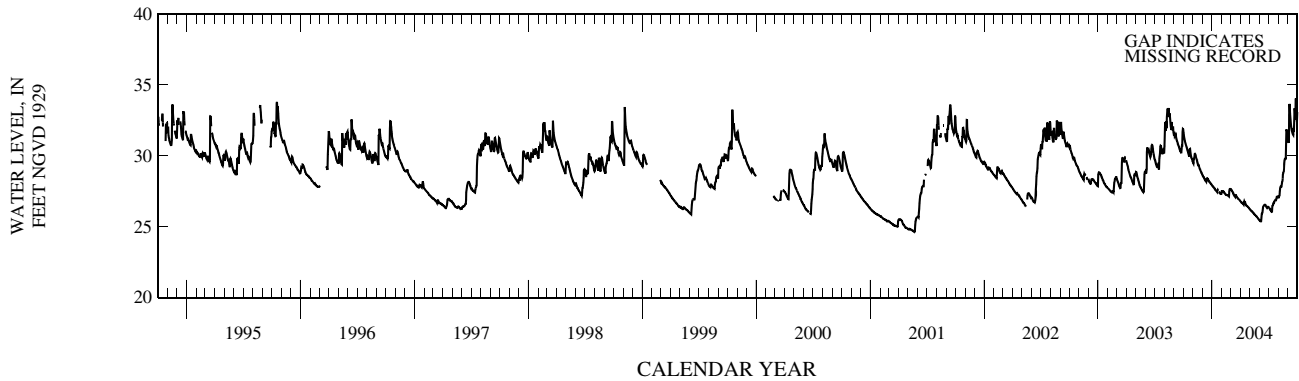
REMARKS.--The well was originally open to the aquifer from 25 to 80 ft. The open interval has collapsed or become obstructed at a depth of 23 ft. The figures of water levels as elevation, in feet NGVD, prior to October 1, 1990 are in error. A -0.22 ft correction is required to correct the data prior to October 1990. The station was reconstructed May 4, 2001. See DATUM.

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

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 34.05 ft NGVD, Sept. 26, 2004; lowest, 24.65 ft NGVD, May 22, 2001.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5 | 31.13 | 29.91 | 28.50 | 27.82 | 27.51 | 27.53 | 26.71 | 26.14 | 25.39 | 26.22 | 27.51 | 33.66 |
| 10 | 30.72 | 29.94 | 28.28 | 27.68 | 27.39 | 27.30 | 26.60 | 26.04 | 25.99 | 26.06 | 27.84 | 32.13 |
| 15 | 30.34 | 29.53 | 28.41 | 27.52 | 27.25 | 27.11 | 26.74 | 25.91 | 26.51 | 26.63 | 28.67 | 31.59 |
| 20 | 30.42 | 29.27 | 28.29 | 27.56 | 27.22 | 27.10 | 26.51 | 25.79 | 26.54 | 26.86 | 29.67 | 32.53 |
| 25 | 30.03 | 28.96 | 28.12 | 27.41 | 27.49 | 26.97 | 26.41 | 25.66 | 26.33 | 26.96 | 30.67 | 33.99 |
| EOM | 29.60 | 28.71 | 27.95 | 27.38 | 27.66 | 26.83 | 26.26 | 25.49 | 26.38 | 27.08 | 31.11 | 33.09 |
| MAX | 31.65 | 30.14 | 28.67 | --- | 27.67 | 27.66 | 26.81 | 26.24 | 26.56 | 27.14 | 31.87 | 34.05 |



MARTIN COUNTY—Continued

WELL NUMBER.--270609080163401. Local Number M 1261. USGS Observation Well near Stuart, FL.

LOCATION.--Lat 27°06'09", long 80°16'34", in SE 1/4 SW 1/4 SE 1/4 sec.6, T.39 S., R.41 E., Hydrologic Unit 03090202, on SW Locks Road, approximately 0.5 mi west of State Road 76 and 1.1 mi west of U.S. Interstate 95. (Corrected).

AQUIFER.--Surficial aquifer system, Geologic Unit 110 SAQS.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6.0 in., depth 20 ft, open from 16.8 to 19.8 ft. (Corrected).

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of base, 18.54 ft above National Geodetic Vertical Datum of 1929. Prior to January 1993, measuring point was top of casing, 18.47 ft above NGVD.

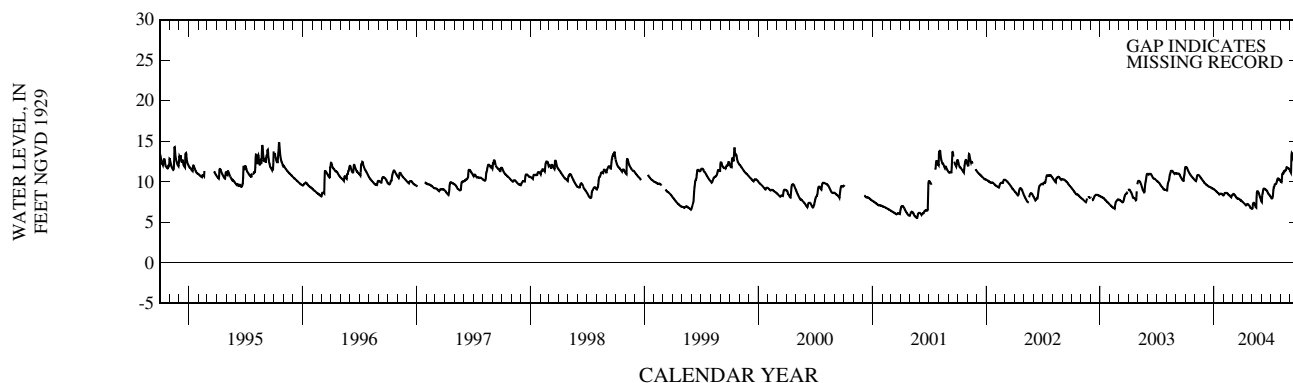
LAND-SURFACE DATUM.--Land surface is 14.9 ft above NGVD.

PERIOD OF RECORD.--May 1989 to April 1992 (semiannual), January 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 14.78 ft NGVD, Oct. 18, 1995; lowest, 5.53 ft NGVD, May 23, 2001.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|-------|------|------|------|------|------|------|------|-------|-------|-------|
| 5 | 11.79 | 10.20 | 9.72 | 8.94 | 8.59 | 8.45 | 7.40 | 7.35 | 8.65 | 7.97 | 10.29 | 13.25 |
| 10 | 11.37 | 10.85 | 9.58 | 8.76 | 8.62 | 8.22 | 7.19 | 7.25 | 9.15 | 9.23 | 11.02 | 12.96 |
| 15 | 10.98 | 10.75 | 9.40 | 8.57 | 8.45 | 7.95 | 7.23 | 6.83 | 8.99 | 9.75 | 11.33 | 12.34 |
| 20 | 10.69 | 10.46 | 9.34 | 8.49 | 8.30 | 7.91 | 7.19 | 8.84 | 8.79 | 10.05 | 11.77 | 12.18 |
| 25 | 10.50 | 10.19 | 9.22 | 8.52 | 8.09 | 7.77 | 6.95 | 8.39 | 8.44 | 10.40 | 11.65 | 13.68 |
| EOM | 10.22 | 9.91 | 9.09 | 8.32 | 8.43 | 7.58 | 6.73 | 7.73 | 8.19 | 10.16 | 11.41 | 13.66 |
| MAX | 11.84 | 10.85 | 9.90 | 9.06 | 8.64 | 8.49 | 7.54 | 8.84 | 9.17 | 10.41 | 11.79 | 14.31 |



MARTIN COUNTY—Continued

WELL NUMBER.--270835080105801. Local Number M 1004. USGS Observation Well in Port Salerno, FL.

LOCATION.--Lat 27°08'35", long 80°10'58", in SE 1/4 NE 1/4 NW 1/4 sec.30, T.38 S., R.42 E., Hydrologic Unit 03090202, 5.0 mi southeast of Stuart, 0.7 mi east of U.S. Highway 1 Alternate A1A on Cove Road. (Corrected).

AQUIFER.--Surficial aquifer system, Geologic Unit 110 SAQS.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 17 ft, cased to 17 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of base, 10.83 ft above National Geodetic Vertical Datum of 1929. From October 1991 to March 15, 1999, measuring point was top of shelf, 10.76 ft above NGVD. Prior to October 1991, top of shelf was considered to be 10.73 ft above NGVD. Prior to 1977, measuring point was top of casing, reported as 23.00 ft above NGVD. (Corrected).

LAND-SURFACE DATUM.--Land surface is approximately 7.8 ft above NGVD.

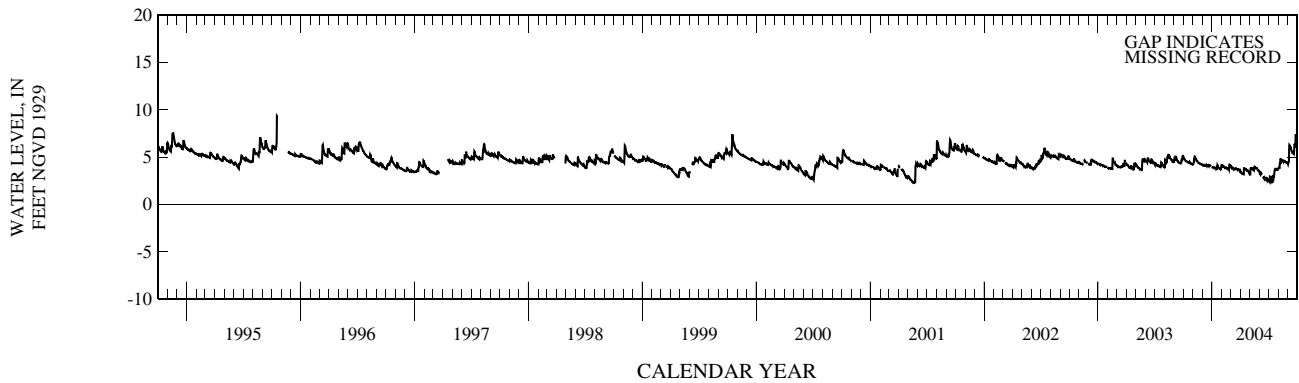
REMARKS.--Station reconstructed March 15, 1999.

PERIOD OF RECORD.--October 1973 to December 1976, October 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 9.34 ft NGVD, Oct. 17, 1995; lowest, 2.29 ft NGVD, July 7, 1990.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| 5 | 4.81 | 4.88 | 4.21 | 3.95 | 4.02 | 3.93 | 3.30 | 3.86 | 3.40 | 2.93 | 4.36 | 6.28 |
| 10 | 4.57 | 4.81 | 4.09 | 3.89 | 3.90 | 3.70 | 3.22 | 3.76 | --- | 2.34 | 4.58 | 5.87 |
| 15 | 4.47 | 4.58 | 4.18 | 3.81 | 3.91 | 3.75 | 3.80 | 3.94 | 2.78 | 2.64 | 4.65 | 5.43 |
| 20 | 4.55 | 4.38 | 4.12 | 3.95 | 3.80 | 3.77 | 3.65 | 3.90 | 2.67 | 3.63 | 4.59 | 5.95 |
| 25 | 4.36 | 4.31 | 4.13 | 3.82 | 4.22 | 3.69 | 3.59 | 3.71 | 2.55 | 3.74 | 4.48 | 7.40 |
| EOM | 4.23 | 4.22 | 3.96 | 4.16 | 4.10 | 3.50 | 3.23 | 3.57 | 2.48 | 3.74 | 4.28 | 6.48 |
| MAX | 5.05 | 5.07 | --- | 4.16 | 4.23 | 4.09 | 3.84 | 4.00 | --- | 3.78 | 4.79 | 7.40 |



MARTIN COUNTY—Continued

WELL NUMBER.--270913080284901. Local Number M 1255. USGS Observation Well near Indiantown, FL.

LOCATION.--Lat 27°09'43", long 80°28'54", in SW ¼ SW ¼ SW ¼ sec.18, T.38 S., R.39 E., Hydrologic Unit 03090202, 50 ft northeast of intersection of County Road 714 and County Road 609, approximately 10 mi west of Palm City and 5 mi north of Indiantown. (Corrected).

AQUIFER.--Surficial aquifer system, Geologic Unit 110 SAQS.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4.0 in., depth 35.0 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 31.15 ft above National Geodetic Vertical Datum of 1929. Prior to January 13, 1993, measuring point was top of casing, 31.06 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 29.6 ft above NGVD.

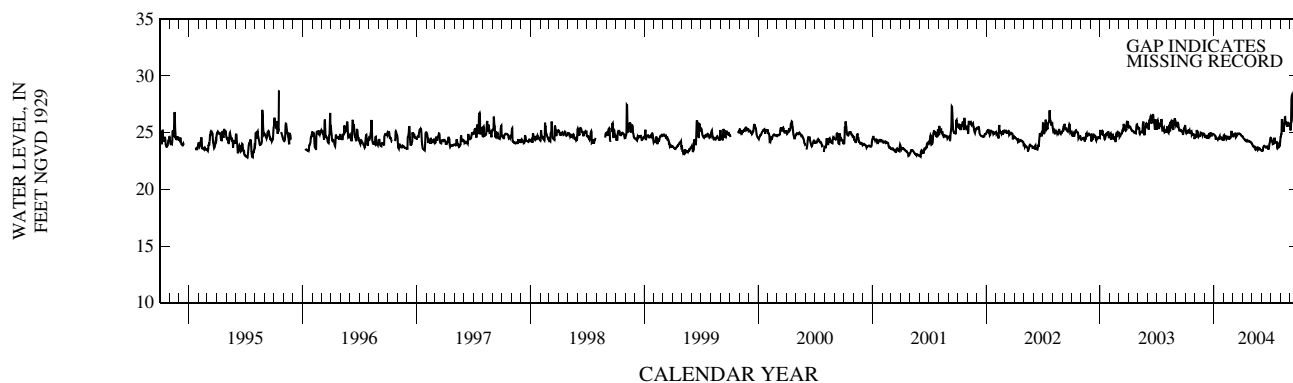
REMARKS.--Well located near agricultural area. Data logger installed January 13, 1993. See DATUM.

PERIOD OF RECORD.--May 1989 to November 1992 (semiannual), January 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 28.72 ft NGVD, Oct. 18, 1995; lowest, 22.81 ft NGVD, July 8, 1995.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5 | 24.97 | 24.76 | 24.68 | 24.70 | 24.52 | 24.80 | 24.47 | 23.80 | 23.43 | 24.19 | 26.10 | 27.91 |
| 10 | 25.18 | 25.02 | 24.54 | 24.41 | 24.46 | 24.92 | 24.33 | 23.76 | 23.83 | 24.05 | 25.24 | 26.79 |
| 15 | 24.92 | 24.70 | 24.82 | 24.49 | 24.63 | 24.77 | 24.25 | 23.57 | 23.66 | 24.13 | 26.33 | 25.69 |
| 20 | 25.12 | 24.98 | 24.80 | 24.43 | 24.50 | 24.92 | 24.23 | 23.48 | 23.74 | 24.12 | 25.91 | 26.20 |
| 25 | 24.81 | 24.74 | 24.78 | 24.55 | 24.90 | 24.85 | 24.21 | 23.61 | 23.71 | 23.72 | 25.81 | 27.39 |
| EOM | 24.53 | 24.88 | 24.83 | 24.49 | 24.88 | 24.67 | 24.09 | 23.42 | 24.54 | 24.22 | 25.66 | 26.68 |
| MAX | 25.31 | 25.21 | 24.94 | 24.81 | 25.14 | 24.92 | 24.67 | 24.03 | 24.54 | 24.54 | 26.34 | 28.30 |



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