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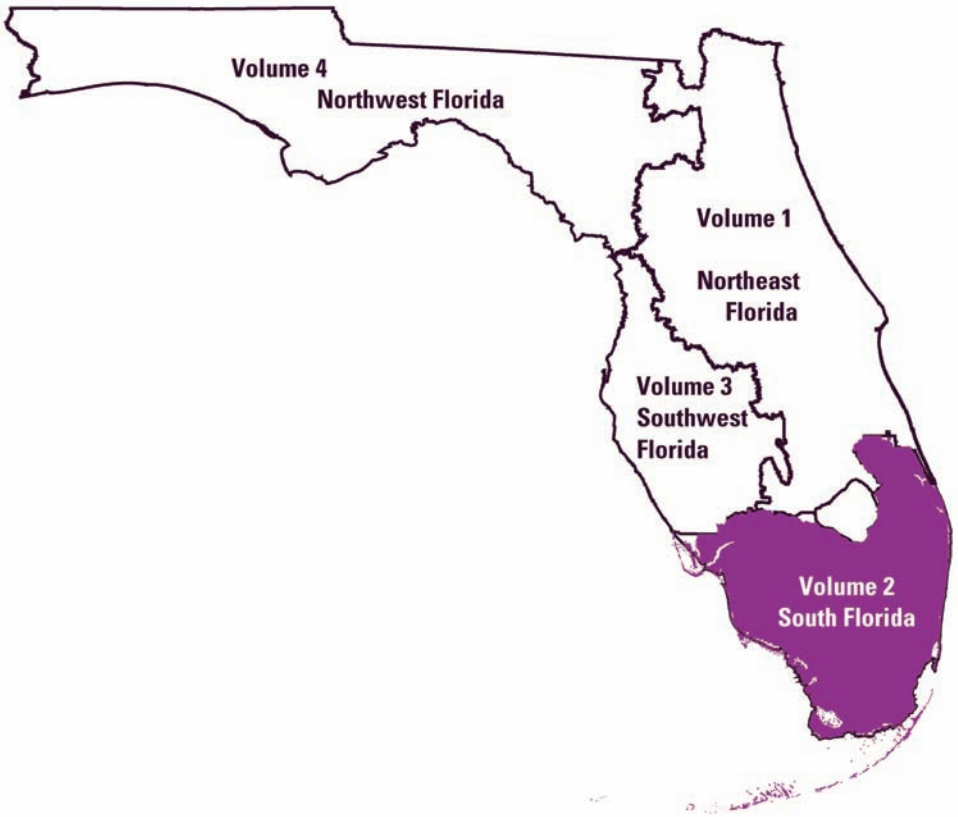
Water Resources Data
Florida
Water Year 2004

Volume 2B
South Florida Ground Water



Water-Data Report FL-04-2B

U.S. Department of the Interior
U.S. Geological Survey

Calendar for Water Year 2004

2003

October

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

November

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

December

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

2004

January

S	M	T	W	T	F	S
						3
						0

February

S	M	T	W	T	F	S

March

S	M	T	W	T	F	S
						6
						13

April

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

May

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

June

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

July

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

August

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

September

S	M	T	W	T	F	S
						4
						11

Conversion Factors

Multiply	By	To obtain
	Length	
inch (in.)	2.54×10^{1}	millimeter (mm)
	2.54×10^{-2}	meter (m)
foot (ft)	3.048×10^{-1}	meter (m)
mile (mi)	1.609×10^{0}	kilometer (km)
	Area	
acre	4.047×10^{3}	square meter (m^2)
	4.047×10^{-1}	square hectometer (hm^2)
	4.047×10^{-3}	square kilometer (km^2)
square mile (mi^2)	2.590×10^{0}	square kilometer (km^2)
	Volume	
gallon (gal)	3.785×10^{0}	liter (L)
	3.785×10^{-3}	cubic meter (m^3)
	3.785×10^{0}	cubic decimeter (dm^3)
million gallons (Mgal)	3.785×10^{3}	cubic meter (m^3)
	3.785×10^{-3}	cubic hectometer (hm^3)
cubic foot (ft^3)	2.832×10^{-2}	cubic meter (m^3)
	2.832×10^{1}	cubic decimeter (dm^3)
cubic-foot-per-second day [(ft^3/s) d]	2.447×10^{3}	cubic meter (m^3)
	2.447×10^{-3}	cubic hectometer (hm^3)
acre-foot (acre-ft)	1.233×10^{3}	cubic meter (m^3)
	1.233×10^{-3}	cubic hectometer (hm^3)
	1.233×10^{-6}	cubic kilometer (km^3)
	Flow	
cubic foot per second (ft^3/s)	2.832×10^{1}	liter per second (L/s)
	2.832×10^{-2}	cubic meter per second (m^3/s)
	2.832×10^{1}	cubic decimeter per second (dm^3/s)
gallon per minute (gal/min)	6.309×10^{-2}	liter per second (L/s)
	6.309×10^{-5}	cubic meter per second (m^3/s)
	6.309×10^{-2}	cubic decimeter per second (dm^3/s)
million gallons per day (Mgal/d)	4.381×10^{-2}	cubic meter per second (m^3/s)
	4.381×10^{1}	cubic decimeter per second (dm^3/s)
	Mass	
ton (short)	9.072×10^{-1}	megagram (Mg) or metric ton

Temperature in degrees Celsius (°C) may be converted to degrees Fahrenheit (°F) as follows:

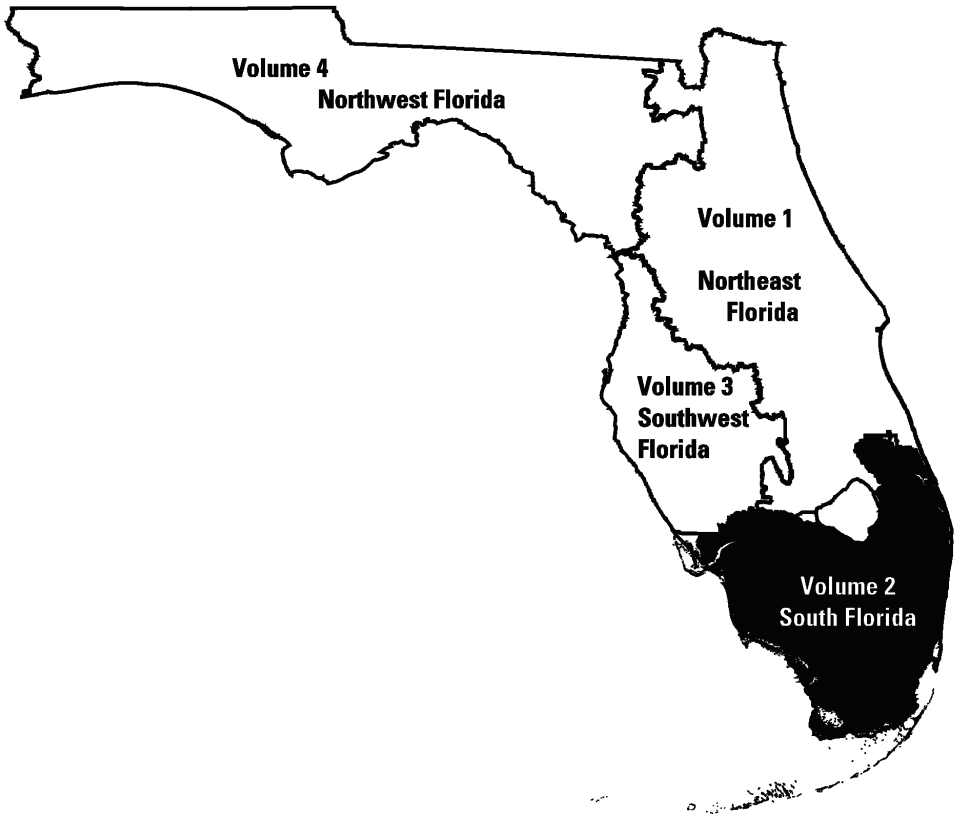
°F = (1.8 x °C) + 32

Water Resources Data
Florida
Water Year 2004

Volume 2B. South Florida Ground Water

By S. Prinos, R. Irvin, M. Byrne

Water-Data Report FL-04-2B



Prepared in cooperation with the State of Florida and with other agencies

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U.S. Geological Survey

U.S. Department of the Interior
Gale A. Norton, Secretary

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2005

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Information about all USGS reports and products is available by calling 1-888-ASK-USGS or on the Internet via the World Wide Web at http://www.usgs.gov/

Additional earth science information is available by accessing the USGS home page at http://www.usgs.gov/

PREFACE

This volume of the annual hydrologic data report of Florida is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by state, local, and federal agencies, and the private sector for developing and managing our Nation's land and water resources. Hydrologic data for Florida are contained in four volumes. Figure 1 shows the area covered by Volume 2B.

Volume 1.	Northeast Florida
Volume 2.	South Florida
Volume 3.	Southwest Florida
Volume 4.	Northwest Florida

ACKNOWLEDGEMENT

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data. This report was prepared for publication by the Hydrologic Records Section under the supervision of M. H. Murray, K. Overton, J. Woolverton, E. C. Price, and S. Prinos; and by the Hydrologic Studies Section under the supervision of B. Howie, E. Patino, C D. Hittle. Sheila Guevara, Carolyn Price, Eleanor Seymore, Jose Agis, and Bruce Irvin, were the primary persons responsible for the compilation of the data report. In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, and tabulation of the data

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Hydrologic data for south Florida are contained in two volumes

Volume 2A: Surface Water
Volume 2B: Ground Water

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13. ABSTRACT *(Maximum 200 words)*

Water resources data for 2004 water year in Florida consists of continuous or daily discharge for 405 streams, periodic discharge for 12 streams, continuous or daily stage for 159 streams, periodic stage for 19 stream, peak discharge for 30 streams, and peak stage for 30 streams, continuous or daily elevations for 14 lakes, periodic elevations for 23 lakes, continuous ground-water levels for 408 wells, periodic ground-water levels for 1188 wells, quality of water data for 140 surface-water sites, and 240 wells.

The data for South Florida included continuous or daily discharge for 86 streams, continuous or daily stage for 54 streams, no peak stage discharge for streams, 1 continuous elevation for lake, continuous ground-water levels for 257 wells, periodic ground-water levels for 226 wells, water quality for 39 surface-water sites, and 149 wells.

These data represent the National Water Data System records collected by the U.S. Geological Survey and cooperating local, State, and Federal agencies in Florida.

14. SUBJECT TERMS

***Florida, *Hydrologic data, *Surface Water, *Ground Water, *Water Quality, Flow rate, Gaging stations, Lakes, Reservoirs, Chemical analyses, Sediments, Water temperatures, Sampling sites, Water levels, Water analyses, Elevations, Water wells.**

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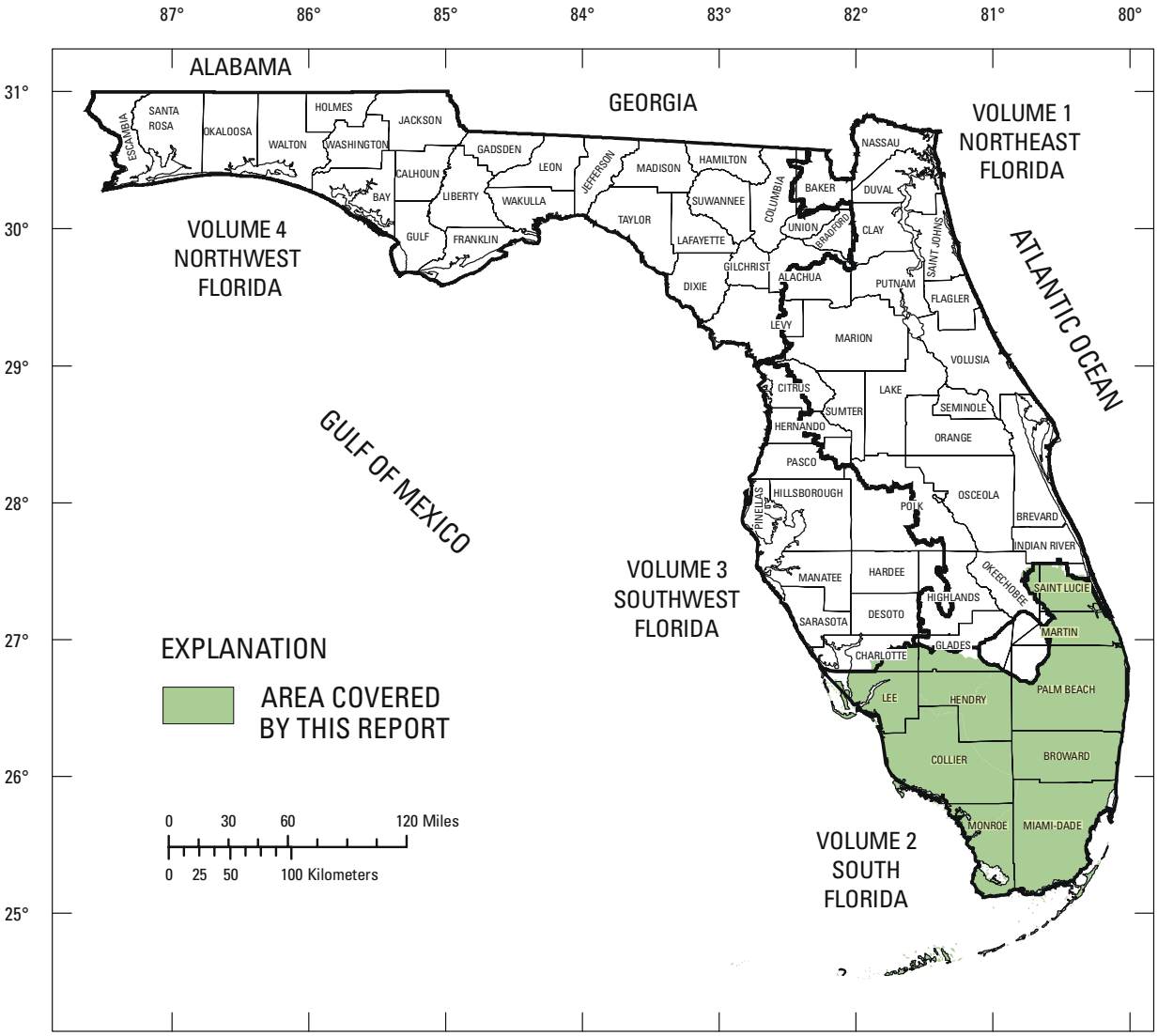

Figure 1. Geographic area covered by this report.

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VOLUME 2B: SOUTH FLORIDA

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INTRODUCTION

The U.S. Geological Survey (USGS), in cooperation with State, County, and other Federal agencies, obtains a large amount of data pertaining to the water resources of Florida each water year. These data, accumulated during many water years, constitute a valuable data base for developing an improved understanding of the water resources of the state. To make these data readily available to interested parties outside the USGS, the data are published annually in this report series entitled "Water Resources Data - Florida, Volume 2A: South Florida Surface Water and Volume 2B: South Florida Ground Water".

This report series includes records of stage, discharge, and water quality for streams; stage, contents, and water quality for lakes; and ground-water levels, contents, and water quality of ground-water wells. The data for South Florida include continuous or daily discharge for 86 streams, continuous or daily stage for 54 streams (including stage published at discharge and stage only sites), continuous elevations for 1 lake, continuous ground-water levels for 257 wells, periodic ground-water levels for 226 wells, and quality-of-water data for 39 surface-water sites and 149 wells.

Publication of this series of annual reports for Florida began with the 1961 water year, with a report that contained only data relating to the quantities of surface water. For the 1964 water year, a similar report was introduced that contained only data relating to water quality. For the 1975 water year, the report format was modified to one volume presenting data on quantities of surface water, quality of surface and ground water, and ground-water levels. For the 1977 water year, the report format was modified to a two volume set: one volume presenting data on quantity as well as quality of surface water and one volume presenting data on water levels along with quality of ground water.

Prior to introduction of this series and for several concurrent water years, water-resources data for Florida were published in USGS Water-Supply Papers. Data on stream discharge and stage and on lake or reservoir contents and stage through September 1960 were published annually under the title "Surface-Water Supply of the United States". For the 1961 through 1970 water years, the data were published in two 5-year reports. Data on chemical quality, temperature, and suspended sediment for the 1941 through 1970 water years were published annually under the title "Quality of Surface Waters of the United States", and water levels for the 1935 through 1974 water years were published under the title "Ground-Water Levels in the United States". The aforementioned Water-Supply Papers may be consulted in the federal repository libraries of the principal cities of the United States and may be purchased from the U.S. Geological Survey, Branch of Information Services, Box 25286, Federal Center, Denver, CO 80115 (telephone: 888-ASK-USGS).

Similar reports are published annually by the USGS for all of the United States. These official USGS reports have an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report FL-xx-2B," where xx represents the current water year. For archiving and general distribution, reports for the 1971-74 water years also are identified as water-data reports. These water-data reports are for sale in paper copy or microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161. Additional information, including current prices, for ordering specific reports may be obtained from the Office Chief at the address given on the back of the title page or by telephone (305) 717-5800.

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COOPERATION

The USGS and various Federal, State, and local organizations have had cooperative agreements for the collection of water-resource records since 1930. Organizations that assisted in collecting the data presented in this report through cooperative agreement with the USGS are:

Broward County
City of Boca Raton
City of Cape Coral
City of Ft. Lauderdale
City of Hallandale Beach
City of Hollywood
Everglades National Park
Florida Keys Aqueduct Authority
Lee County
Miami-Dade County Department of Environmental Resource Management
Seminole Tribe of Florida
South Florida Water Management District
St. Lucie County
U.S. Army Corps of Engineers
U.S. Fish and Wildlife Service

Organizations that provided data are acknowledged in station manuscripts.

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SUMMARY OF HYDROLOGIC CONDITIONS

This section summarizes important hydrologic events that occurred during the 2004 water year (October 1, 2003 to September 30, 2004) as well as significant natural and water-management responses to these events. Figure 2 provides a frame of reference for some of the major land areas of hydrologic significance mentioned in the summary.

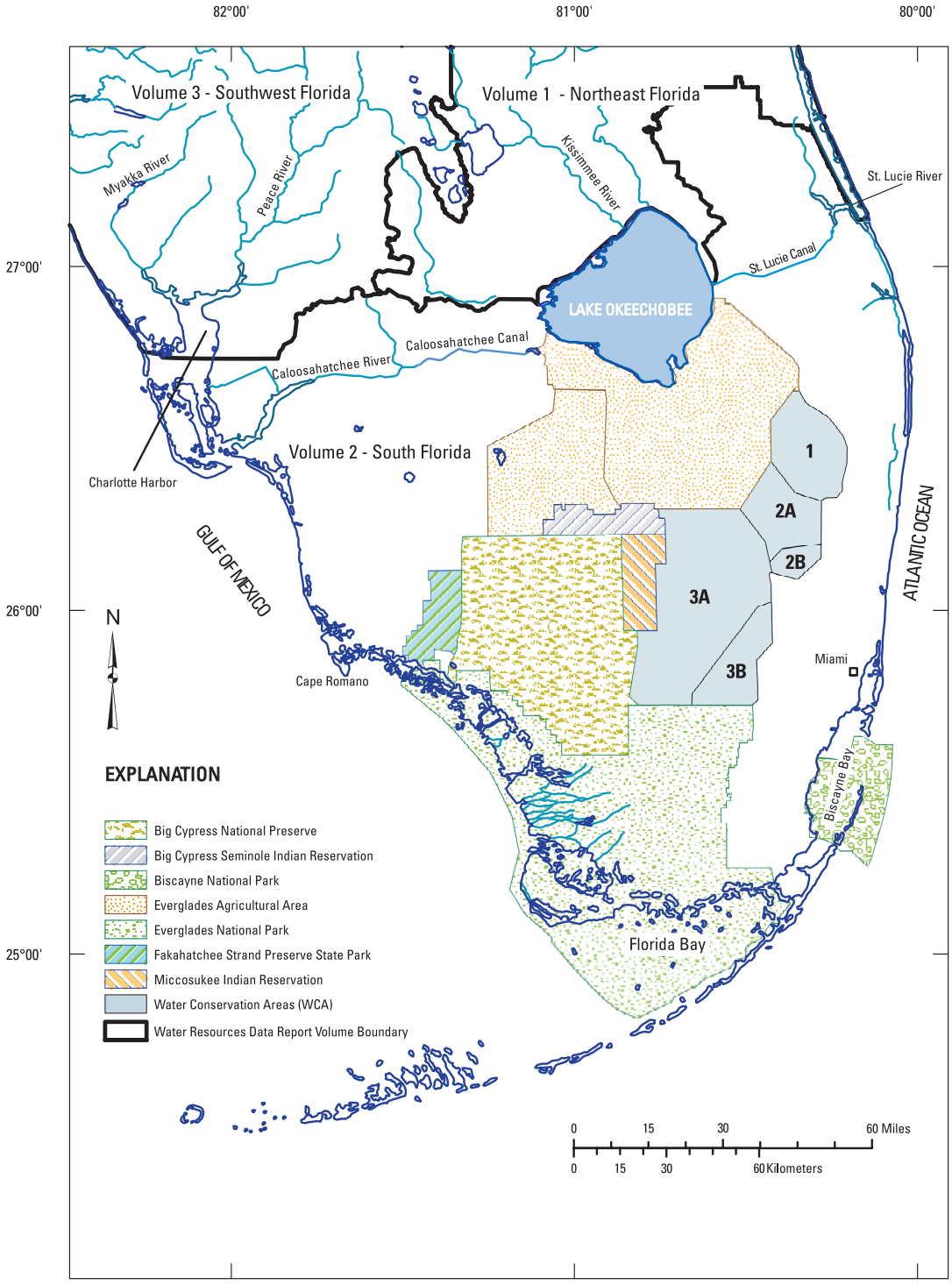

Figure 2. South Florida areas of hydrologic significance.

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SUMMARY OF HYDROLOGIC CONDITIONS (continued)

GROUND-WATER MONITORING NETWORK

During the 2004 water year (October 1, 2003 to September 30, 2004), the Florida Integrated Science Center - Water and Restoration Studies (FISC-WRS) monitored 511 wells in southern Florida to assess regional ground-water conditions. In southeastern Florida, the principal aquifers monitored are the Biscayne aquifer in Miami-Dade and Broward Counties (209 wells) and the surficial aquifer system in Palm Beach, St. Lucie, and Martin Counties (52 wells). In southwestern Florida, the principal aquifers are the water-table aquifer (86 wells), lower Tamiami aquifer (49 wells), sandstone aquifer (44 wells), mid-Hawthorn aquifer (39 wells), lower Hawthorn aquifer (or lower Hawthorn producing zone) (25 wells), and the Floridan aquifer system (7 wells). The generalized geology and hydrogeology of southern Florida is shown in figure 3.

DATA FROM SELECTED WELLS

The most extensive data are provided by 262 monitoring wells equipped with data recorders that measure hourly water levels. The daily maximum water-level elevations presented in this report are derived from these hourly measurements. Seven recorder-equipped wells have been selected as index stations to depict ground-water conditions for the 2004 water year. These wells were selected to show changes in ground-water levels that occurred in seven municipal water-supply aquifers used in southern Florida. Relations shown for these index wells can only indicate changes occurring in the aquifers in the vicinity of each well.

A detailed assessment of hydrologic conditions throughout each aquifer would require similar statistical evaluations of data from many additional wells. For detailed assessment of aquifer conditions, the USGS has performed statistical analyses of data from additional network wells, and results are available at the U.S. Geological Survey (USGS) Current Water-level Conditions website *http://www.sflorida.er.usgs.gov/ddn_data/index.html*.

Two hydrographs are shown for each of the seven selected stations (figs. 4-10). The first hydrograph compares the water levels for the 2004 water year to historical water-level data. Daily maximum water levels from the 2004 water year are compared to: (1) normal monthly means of the daily maximum water levels, computed using all data available for each month of the period October 1979 to September 2004; (2) highest and lowest daily maximum water levels for the period of record; and (3) the monthly standard deviation of water levels above and below the normal monthly mean. Relations depicted in this first graph could be skewed by long-term water-level trends.

The second hydrograph shows the annual mean of daily maximum water levels and statistical data obtained from the Seasonal Kendall Trend Test (SKTT), depicting long-term trends. The SKTT is a nonparametric test for a monotonic trend in daily values. Two results of this test are the p-value and the Seasonal Kendall Slope Estimator (SKSE). The p-value indicates whether the trend determined by the SKTT is statistically significant. The null hypothesis for this test assumes that the random variable (water level) has not changed over time. The test makes pairwise comparisons of data values from the same seasons to eliminate seasonal variability. If the null hypothesis is disproven (p-values less than 0.05), there is a statistically significant trend in the data. The SKSE is a positive or negative slope representing a trend in water levels that is either increasing or decreasing. The SKSE is expressed as the change in water level in feet per year. The SKTT is determined using monthly mean values.

The statistical analyses used to evaluate the water-level data can be affected by missing data. Almost all index stations selected have periods of missing data. Cooperative support for ground-water monitoring at some locations has fluctuated. As a result, monitoring at some wells was terminated, but later resumed. Additionally, some stations experienced mechanical problems with the float system or water-level recorder. One example is L-2434 (fig. 10), which is one of the only recorder-equipped monitoring stations in the lower Hawthorn producing zone in southwestern Florida. Water levels at this station fluctuate rapidly and extensively, The mechanical systems used to monitor the well used to slip or become entangled. This necessitated the deletion of some segments of erroneous data until a submersible pressure transducer was installed during the 1997 water year. Pressure transducers at stations with rapidly fluctuating water levels have provided a more complete record than previously possible using mechanical devices.

SUMMARY OF HYDROLOGIC CONDITIONS (continued)

<table>
<tr><th rowspan="2">Southeastern Geological Society in Florida Bureau of Geology Special Publication 28</th><th colspan="4">This report</th></tr>
<tr><th colspan="2">Southwestern Florida (Lee, Collier, and Hendry Counties)</th><th colspan="2">Southeastern Florida (Miami-Dade and Broward Counties)</th><th>Southeastern Florida (Martin, Palm Beach, and St. Lucie Counties)</th></tr>
<tr><td rowspan="3">Surficial aquifer system</td><td rowspan="3">Surficial aquifer system</td><td>Water-table aquifer</td><td rowspan="4">Surficial aquifer system</td><td>Biscayne aquifer</td><td rowspan="4">Surficial aquifer system</td></tr>
<tr><td rowspan="2">Confining beds</td><td>Semiconfining unit</td></tr>
<tr><td>Gray limestone aquifer</td></tr>
<tr><td>Lower Tamiami aquifer</td><td>Semiconfining unit</td></tr>
<tr><td rowspan="5">Intermediate aquifer system</td><td rowspan="5">Intermediate aquifer system</td><td>Confining unit</td><td rowspan="5">Intermediate confining unit</td><td rowspan="5">Intermediate confining unit</td></tr>
<tr><td>Sandstone aquifer</td></tr>
<tr><td>Confining unit</td></tr>
<tr><td>Mid-Hawthorn aquifer</td></tr>
<tr><td>Confining unit</td></tr>
<tr><td rowspan="2">Floridan aquifer system</td><td rowspan="2">Floridan aquifer system</td><td>Lower Hawthorn producing zone</td><td rowspan="2">Floridan aquifer system</td><td rowspan="2">Floridan aquifer system</td></tr>
<tr><td>Remaining portion of the Floridan aquifer system</td></tr>
</table>

Figure 3. Generalized geology and hydrogeology of southern Florida (Prinos and others, 2002)

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SUMMARY OF HYDROLOGIC CONDITIONS (continued)

The data analyzed were not censored for missing record because certain stations, such as L-2434, would have insufficient data for analysis if all partial monthly or annual records were removed. Despite the missing data from well L-2434, there is clearly a significant trend toward decreased water levels that is apparent in the record available. This trend must be considered in order to understand why the current water-level data remain below the normal monthly mean water levels from this well.

In the second hydrograph presented for each index station, dashed lines indicate periods for which the computed annual means included one or more months that were missing more than 15 days. The SKSE provided for these trends should also be considered approximate. Within the applicable graphs, the word "approximately" is used to indicate uncertainty for those stations that have excessive periods of missing record.

LONG-TERM TRENDS

The potential effect of long-term trends must be considered before current ground-water conditions can be reasonably evaluated. Hydrographs showing daily ground-water levels, means, and SKTT statistics (figs. 4-10) show statistically significant (p-value less than 0.05) long-term trends in water-levels at all index wells, except for well PB-561 (fig. 5, surficial aquifer system). Trends were evaluated for the 1980-2004 water-year period for all index stations, except L-2434; which only had record available since 1981.

Well S-196A (fig. 4), completed in the Biscayne aquifer in Miami-Dade County indicates a water-level increase of about 0.01 ft/yr (foot per year). Well C-496 (fig. 6), completed in the water-table aquifer in Collier County indicates a water-level increase of 0.02 ft/yr.

Wells completed in the lower Tamiami aquifer (fig. 7, L-2194), sandstone aquifer (fig. 8, L-729), mid-Hawthorn aquifer (fig. 9, L-1993), and lower Hawthorn producing zone (fig. 10, L-2434) in Lee County, all indicate long-term water-level declines. A 0.10 ft/yr downward trend in water-level data from well L-2194 was determined. This represents an approximate 2-ft decrease in average water levels for the 1980 to 2004 period (fig. 7). Water-level data from well L-729 indicated a 0.22 ft/yr downward trend that represents an approximate 6-ft decline in average water levels for the same period (fig. 8). Water level data from well L-1993 indicated a 0.71 ft/yr downward trend that represents an approximate 18-ft decline in average water levels for the 1980 to 2004 period (fig. 9). Water-level data from well L-2434 indicated an overall downward trend of 1.49 ft/yr, representing an approximate 36-ft decline in water levels for the 1981 to 2004 period (fig. 10). The trend in water levels in well L-2434 has resulted in period-of-record extreme minimum water levels that are progressively lower each year during the 1999 to 2004 period. Wells L-729, L-1993, and L-2194 are all completed in confined aquifers and located in areas affected by municipal water-supply withdrawals.

Because of the effect of substantial long-term declines in water level at wells L-729 (fig. 8, sandstone aquifer), L-1993 (fig. 9, mid-Hawthorn aquifer), and L-2434 (fig. 10, lower Hawthorn producing zone), recent water levels are, on average, below the monthly means of historic water levels (figs. 7-10). These monthly means are influenced by water-levels that had been much higher in the past. The effect of the declining water levels on monthly means of historic water levels is most obvious in the 2004 water year hydrograph from well L-1993 (fig. 9). Therefore, comparative analysis of recent and historical water levels is required to develop a comprehensive understanding of long-term water-level trends.

RAINFALL

The water-table aquifer in southwestern Florida and the Biscayne aquifer in Broward and Miami-Dade counties are locally named aquifers within the surficial aquifer system (fig. 3). Water levels in the surficial aquifer system respond readily to precipitation. The wells completed in these aquifers usually indicate water-level increases in response to rainfall events. The same is true for most wells completed in the lower Tamiami aquifer because a portion of this aquifer in southern Florida is unconfined. The response of water levels to precipitation in the deep confined aquifers is less pronounced. This is because the recharge areas of the deep confined aquifers are in the central Florida. In the deeper confined aquifers, the effects of municipal water-supply withdrawals on aquifer water levels are often more evident than the water-level variations caused by rainfall events. But all wells in all aquifers monitored indicate a seasonal variation in water levels that corresponds to the seasonal variation in rainfall.

Rainfall data collected and evaluated by the South Florida Water Management District (SFWMD) during the 2004 water year, provide a framework for understanding monthly water level variations (South Florida Water Management District, 2005). The rainfall data provided by the SFWMD for southern Florida are subdivided into 16 geographic areas. Monthly rainfall totals from individual stations within each area were averaged and compared to the historical total monthly rainfall averages. The percentage of average monthly rainfall is computed for each of the 16 geographic areas. This percentage is used throughout the discussion of ground-water conditions for the 2004 water year.

Weekly precipitation anomalies (percentage of 1971 to 2000 normal), are provided by the National Climatic Data Center, National Oceanic and Atmospheric Administration (NCDC-NOAA) (2005), for the years 2003 and 2004. The weekly precipitation anomalies were computed for the entire United States and include two geographic areas in southern Florida. The first geographic area is southeastern Florida from Key Largo to St. Lucie County. The second geographic area includes the rest of southern Florida, south of the northern extent of Lake Okeechobee. Unlike the percentages of average monthly rainfall provided by SFWMD, which are exact values, the weekly precipitation anomalies provided by NCDC-NOAA are divided into seven categories or ranges: very dry (less than 30 percent of average), severely dry (30 to 50 percent of average), moderately dry (50 to 70 percent of average), mid range (70 to 140 percent of average), moderately moist (140 to 200 percent of average), very moist (200 to 330 percent of average), and extremely moist (greater than 330 percent of average). Weekly and monthly precipitation anomalies were used in conjunction with water-level data to describe hydrologic conditions in aquifers during the 2004 water year.

SUMMARY OF HYDROLOGIC CONDITIONS (continued)

GROUND-WATER CONDITIONS DURING THE 2004 WATER YEAR

Water levels in well C-496 (fig. 6, water-table aquifer) were above normal monthly mean water levels for about 9 months during the 2004 water year. This may be explained, in part, by the 0.02 ft/yr long-term water-level increase observed in this well. Conversely water levels in wells PB-561 (fig. 5, surficial aquifer system), L-729 (fig. 8, sandstone aquifer), L-1993 (fig. 9, mid-Hawthorn aquifer), and L-2434 (fig. 10, lower Hawthorn producing zone) were below normal monthly mean water levels for most of the year. This is consistent with the -0.22, -0.71, and -1.49 ft/yr water-level trends observed, respectively, in wells L-729 (fig. 8, sandstone aquifer), L-1993 (fig. 9, mid-Hawthorn aquifer), and L-2434 (fig. 10, lower Hawthorn producing zone). However, there was no statistically significant long-term water-level trend at well PB-561 (fig. 5, surficial aquifer system). Annual means of water-level data from this well suggest a general decline since about 1999.

During October, rainfall was substantially lower than normal (8 to 39 percent of average) throughout southern Florida. Water levels in all wells declined during this month. Water levels in wells S-196A (fig. 4, Biscayne aquifer), C-496 (fig. 6, water-table aquifer), L-2194 (fig. 7, lower Tamiami aquifer), and L-729 (fig. 8, sandstone aquifer) all declined by about one to two standard deviations. Water levels in well S-196A (fig. 4, Biscayne aquifer) and L-729 (fig. 8, sandstone aquifer) declined from about one standard deviation above the mean to about half of one standard deviation below the mean. Water levels in well L-2194 (fig. 7, lower Tamiami aquifer) decreased from about one standard deviation above the mean in the beginning of the month to near normal monthly mean water level by the end of the month. Water-level declines were slight in wells L-1993 and PB-561.

Rainfall during the first week of November was 200 to 330 percent of average. As a result, most of the index wells indicated increases of one to two standard deviations in water levels during the first week of the month. Water levels in wells S-196A (fig. 4, Biscayne aquifer) and C-496 (fig. 6, water-table aquifer) increased to about two standard deviations above the normal monthly mean. Water levels in well L-2194 (fig. 7, lower Tamiami aquifer) increased to about one standard deviation above the normal monthly mean. Water levels at wells PB-561 (fig. 5, surficial aquifer system) and L-729 (fig. 8, sandstone aquifer) increased from about one standard deviation below the normal monthly mean to levels slightly above the normal monthly mean. Rainfall during the remaining 3 weeks of November was substantially lower than normal (less then 30 percent of average). Water levels in all of the index wells declined during this period. Rainfall for the month was 86 to 114 percent of average in southwestern Florida, 98 to 152 percent of average in southeastern Florida, and 59 to 87 percent of average in south-central Florida.

During the first, second, and fourth weeks of December 2003, rainfall was generally substantially lower than normal (30 to 50 percent of average or less). Rainfall in the third week of the month was substantially greater than normal (greater than 330 percent of normal in southwestern and south-central Florida and 200 to 330 percent of normal in southeastern Florida). As a result, water levels generally declined throughout the month but increased during the third week of the month. During the third week of the month, water levels in wells S-196A (fig. 4, Biscayne aquifer) and C-496 (fig. 6, water-table aquifer) increased to levels slightly greater than one standard deviation above the normal monthly mean, and water levels in wells PB-561 (fig. 5, surficial aquifer system) and L-729 (fig. 8, sandstone aquifer) increased to levels slightly below the normal monthly mean by the middle of the month. Water levels at well L-2194 (fig. 7, lower Tamiami aquifer) increased to levels slightly above the normal monthly mean. Rainfall during the month varied spatially from 47 (eastern Miami-Dade geographic area) to 184 (east Caloosahatchee geographic area) percent of average.

During January 2004, rainfall generally was substantially lower than normal (less than 30 percent of average), except during the last week of the month. Rainfall during this week exceeded 330 percent of average. During most of the month, water levels for most of the index wells declined, except for monitoring well L-729 (fig. 8, sandstone aquifer) in Lee County where water levels increased from values lower than one standard deviation below the normal monthly mean in the mid-January to about normal monthly mean values at the end of the month. Water levels in most of the index wells increased at the end of the month in response to heavy rainfall in late January. This heavy rainfall late in the month throughout most of southern Florida also resulted in monthly rainfall totals that were slightly above normal despite the prevailing dry conditions that existed during the first 3 weeks of the month. Monthly rainfall totals varied spatially from 71 (eastern Palm Beach geographic area) to an estimated 190 (Everglades National Park geographic area) percent of average.

During the first 3 weeks of February, rainfall in southern Florida varied temporally from normal (70 to 140 percent of average) to well below normal (less than 30 percent of average). Rainfall during the last week of February was much higher than normal (between 200 and 330 percent of average in southeastern Florida and more than 330 percent of average in southwestern and south-central Florida). Monthly rainfall totals were about normal for southern Florida. Monthly rainfall varied spatially from 65 (eastern Broward geographic area) to 170 (Everglades National Park geographic area) percent of average. Water levels at most index stations increased twice: once at the beginning of the month as a result of heavy rainfall late in January and early in February, and again at the end of the month as a result of heavy rainfall in the last week of February. During the first week of the month, water levels in well S-196A (fig. 4, Biscayne aquifer) increased from about the normal monthly mean to slightly above one standard deviation above the normal monthly mean. At the end of the month water levels in S-196A again rose to about one standard deviation above the normal monthly mean. Water levels at well PB-561 (fig. 5, surficial aquifer system), increased from one standard deviation below the normal monthly mean at the beginning of the month to about one half of one standard deviation below the normal monthly mean.

During March, rainfall was substantially lower than average. Monthly rainfall ranged spatially from 3 to 37 percent of average throughout southern Florida. During this month, water levels for all the index wells declined. Water levels at well S-196A (fig. 4, Biscayne aquifer) declined from one standard deviation above normal monthly mean at the beginning of the month to about one standard deviation below normal monthly mean by the end of the month Water levels at well C-496 (fig. 6, water-table aquifer) were about one standard deviation above the normal monthly mean at the beginning of March and declined at about the normal rate during the month. Water levels at well L-2194 (fig. 7, lower Tamiami aquifer) and L-729 (fig. 8, sandstone aquifer) declined from about the normal monthly mean at the beginning of the month to about one standard deviation below the normal monthly mean by the end of the month. Water levels at well L-2434 (fig. 10, lower Hawthorn producing zone) declined to about two standard deviations below the normal monthly mean.

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SUMMARY OF HYDROLOGIC CONDITIONS (continued)

Rainfall during the month of April ranged spatially from about normal to a little below normal (71 to 124 percent of average). Rainfall was generally lowest in south-central Florida and highest in southwestern Florida. Abundant rainfall (200 to 330 percent of average) occurred in the third week of the month; however, rainfall during the rest of the month was less than 30 percent of average rainfall. As a result of rainfall in the third week, water levels observed at index wells rebounded. Water levels in index wells S-196A (fig. 4, Biscayne aquifer), PB-561 (fig. 5, surficial aquifer system), and L-2194 (fig. 7, lower Tamiami aquifer) were generally a little higher near the end of the month than at the beginning of the month. Water levels at these wells were generally between the normal monthly mean and one standard deviation below the normal monthly mean during April. Water levels in well C-496 (fig. 6, water-table aquifer) declined sharply during the month - from slightly below one standard deviation above the normal monthly mean to a little above the normal monthly mean.

May rainfall varied spatially and temporally. During the first week of May, rainfall was 50 to 70 percent of average in southeastern Florida and 70 to 140 percent of average in south-central and southwestern Florida. During the remaining weeks, very dry conditions prevailed (generally less than 30 percent of average.) Resulting monthly rainfall was substantially lower than normal. Rainfall for the month varied spatially from 16 to 50 percent of average. Water levels in all of the index wells declined during the month. Water levels in wells S-196A (fig. 4, Biscayne aquifer) and C-496 (fig. 6, water table aquifer) declined from a little above the normal monthly mean to about one standard deviation below the normal monthly mean. Water levels in well L-2194 (fig. 7, lower Tamiami aquifer) and L-729 (fig. 8, sandstone aquifer) declined to two standard deviations below the normal monthly mean.

On June 2, water levels in well L-2434 (fig. 7, lower Tamiami aquifer) declined to a new period of record lowest daily maximum water level (43.44 ft below the National Geodetic Vertical Datum of 1929). By the middle of the first week of June, water levels in well S-196A (fig. 4, Biscayne aquifer) had declined to about 1.5 standard deviations below the normal monthly mean. Rainfall was about normal (70 to 140 percent of average) during the first 2 weeks of the month, except in southeastern Florida where rainfall was slightly below normal (50 to 70 percent of average). For the rest of June, rainfall was lower than normal (30 to 50 percent of average or lower in southeastern Florida). June monthly rainfall totals were slightly below average in much of southern Florida but substantially lower than average (30 to 55 percent) in the geographic areas of; eastern Palm Beach County, eastern Broward County, Water Conservation Area 1, and eastern Miami-Dade. Water levels in wells S-196A (fig. 4, Biscayne aquifer) and C-496 (fig. 6, water-table aquifer) rebounded gradually in the first half of the month, but declined once again in the last half of the month. By the end of June, water levels in well S-196A (fig. 4, Biscayne aquifer) had declined to two standard deviations below the normal monthly mean. Water levels in well PB-561 (fig. 5, surficial aquifer system), where rainfall was lower than average, decreased from slightly above to slightly below one standard deviation below normal monthly mean. Water levels in wells L-2194 (fig. 7, lower Tamiami aquifer) and L-729 (fig. 8, sandstone aquifer) increased from levels considerably below one standard deviation below normal monthly mean to about one standard deviation below normal monthly mean by the end of the month. Water levels in well L-2434 (fig. 10, lower Hawthorn producing zone), where rainfall was slightly below average, continued to show values considerably lower than one standard deviation below normal monthly mean.

July monthly rainfall totals were generally about average for southern Florida. Rainfall for the month generally varied spatially from 75 to 127 percent of average. Geographic areas that received more than 90 percent of the average rainfall were the east and west Everglades Agricultural Area (EAA), Water Conservation Areas 1, 2 and 3, Big Cypress Preserve, and eastern Broward. Rainfall in the eastern Miami-Dade geographic area was slightly above average (127 percent of average) for the period. Rainfall in southeastern Florida was lower than normal (30 to 50 percent of average) in the first week of the month. Rainfall in southwestern and south-central Florida was lower than normal (30 to 50 percent of average) in the second week of the month. Rainfall throughout southern Florida was higher than normal (140 to 200 percent of average) in the last week of the month. During July, water levels in most index wells increased. Water levels in well S-196A (fig. 4, Biscayne aquifer) increased from about two standard deviations below the normal monthly mean at the beginning of the month to about the normal monthly mean by the end of the month. Water levels in well C-496 (fig. 6, water-table aquifer) varied between the normal monthly mean and one standard deviation below the normal monthly mean. By the end of the month, water levels in well C-496 (fig. 6, water-table aquifer) were slightly above the normal monthly mean. Water levels in well L-729 (fig. 8, sandstone aquifer) increased from one standard deviation below the normal monthly mean at the beginning of the month to about the normal monthly mean by the end of the month.

August monthly rainfall totals for southeastern Florida were slightly above normal (99 to 135 percent of average). Rainfall in southeastern Florida was considerably greater than normal (200 to 330 percent of average) in the first week of the month, below normal (50 to 70 percent of average) in the second and third weeks of the month, and about normal (70 to 140 percent of average) in the last week of the month. August monthly rainfall totals for parts of southwestern and south-central Florida were considerably above average and ranged from 139 percent of normal in the East EAA geographic area to 171 percent of average in the east Caloosahatchee geographic area. Rainfall was greatest in the second week of the month and that can be attributed to Hurricane Charley which brought more than 5 inches of rain to Florida on August 13-14, 2004. In southwestern Florida, where monthly rainfall was 162 percent of average, water levels in well L-2194 (fig. 7, lower Tamiami aquifer) increased from about one standard deviation below the normal monthly mean at the beginning of the month to about one standard deviation above the normal monthly mean by the last week of the month. Water levels in well L-729 (fig. 8, sandstone aquifer) increased from about the normal monthly mean at the beginning of the month to about one standard deviation above the mean by the end of the month. Despite rainfall amounts that were considerably above average for southwestern Florida, water levels in well L-2434 (fig. 10, lower Hawthorn producing zone) decreased from about one standard deviation below normal mean at the beginning of the month to about two standard deviations below the normal monthly mean by the end of the month. In the eastern Miami-Dade geographic area, where rainfall was 99 percent of average, water levels in well S-196A (fig. 4, Biscayne aquifer) decreased from about one standard deviation above the normal monthly mean to about one standard deviation below the normal monthly mean by the third week of the month.

SUMMARY OF HYDROLOGIC CONDITIONS (continued)

September monthly rainfall totals varied spatially from 302 percent of average in the upper Kissimmee geographic area to 60 percent of average, in the Everglades National Park geographic area. Monthly rainfall totals were well above normal in the Martin (249 percent of average), eastern Palm Beach (208 percent of average) and lower Kissimmee (217 percent of average) geographic areas. This can be attributed to rainfall associated with Hurricanes Frances (September 5-6, 2004) and Jeanne (September 26-27, 2004), which produced 10 and 8 in., respectively, of rainfall in eastern, central, and northern Florida. Rainfall from Hurricane Frances caused water levels in well PB-561 (fig. 5, surficial aquifer system) to increase dramatically from about one standard deviation below the normal monthly mean to about one standard deviation above the normal monthly mean. Water levels increased again in response to rainfall from Hurricane Jeanne - from values slightly above the normal monthly mean on September 20, 2004, to values about two standard deviations above the normal monthly mean by September 26, 2004. Water levels in well S-196A (fig. 4, Biscayne aquifer) decreased from about the normal monthly mean to about one standard deviation below the normal monthly mean during the first 2 weeks of the month.

SUMMARY OF HYDROLOGIC CONDITIONS (continued)

EXPLANATION FOR PLOTS (FIGURES 4 TO 10) OF SUMMARY STATISTICS AND 2004 WATER YEAR DAILY MAXIMUM WATER LEVELS



Daily maximum water level, recorded during 2004 water year



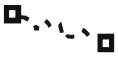
Monthly mean curve of daily maximum water levels collected, during the month displayed, for the October 1979 to September 2004 period.

One standard deviation (above or below) the monthly mean of daily maximum water levels collected, during the month displayed, for the October 1979 to September 2004 period.

EXPLANATION FOR PLOTS (FIGURES 4 TO 10) OF DAILY MAXIMUM WATER LEVELS, ANNUAL MEANS OF DAILY MAXIMUM WATER LEVELS, AND RESULTS OF THE SEASONAL KENDALL TREND TEST



Annual mean of daily maximum water levels collected, during the year displayed, for the October 1979 to September 2004 period, wherein no one month is missing more than 15 days of water level record



Annual mean of daily maximum water levels collected, during the year displayed, for the October 1979 to September 2004 period, wherein one or more months is missing 15 or more days of water level record.



Daily maximum water level. Breaks in line represent missing measurements, or measurements that failed quality assurance review.

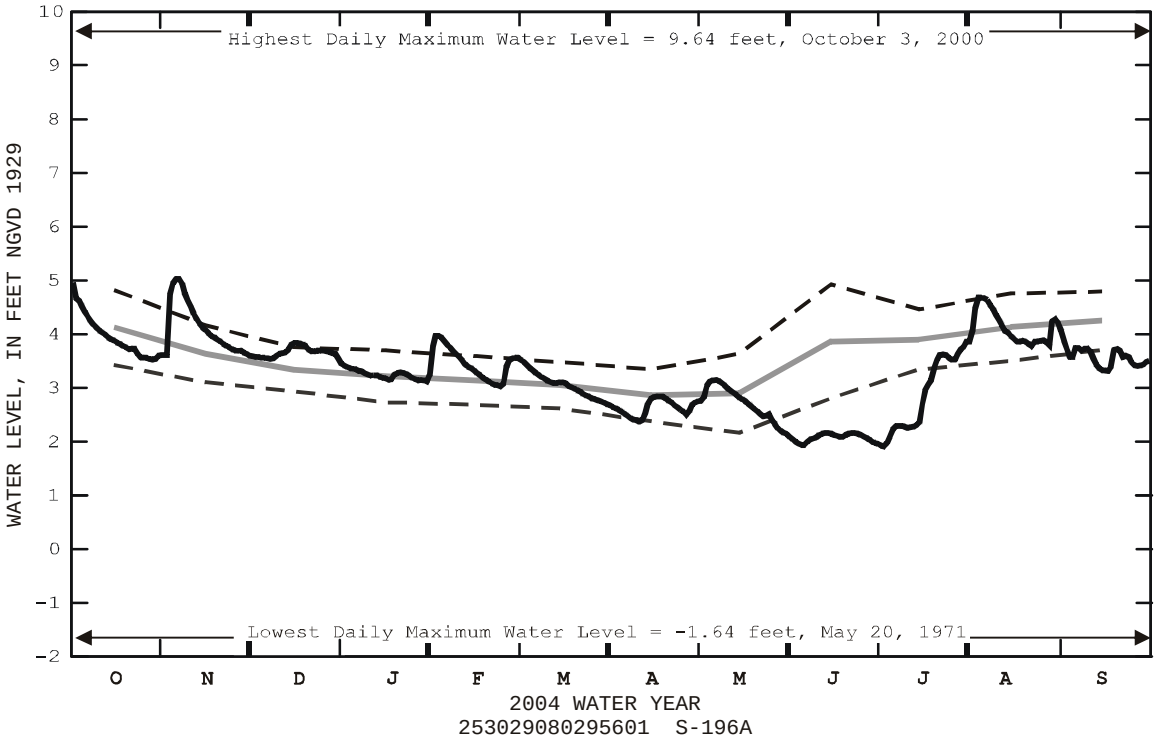
SKSE — The Seasonal Kendall Slope Estimator (SKSE) represents the median slope of the set of slopes obtained by computing the slope, in feet per year, of all unique pairs of monthly mean daily maximum water levels computed for the site shown.

p-value — The p-value represents a measure of the significance level of the Seasonal Kendall Trend Test statistic, computed concurrently with the SKSE, used to determine if there is a trend in the data examined. A p-value less than 0.05 indicates a statistically significant trend.

SUMMARY OF HYDROLOGIC CONDITIONS (continued)

LOWER EAST COAST - BISCAYNE AQUIFER

Historical water-level summary and observed daily maximum water levels, 2004 water year



Historical daily maximum water levels, annual means of daily maximum water levels, and results of the Seasonal Kendall Trend Test

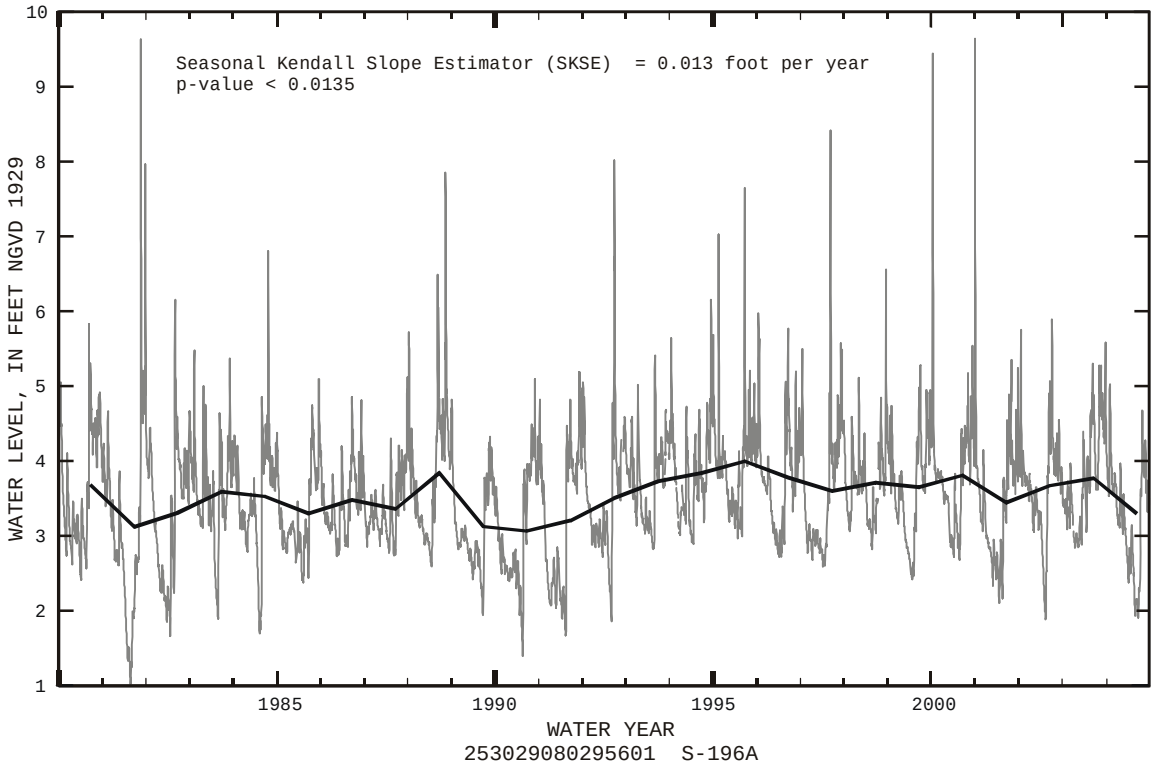
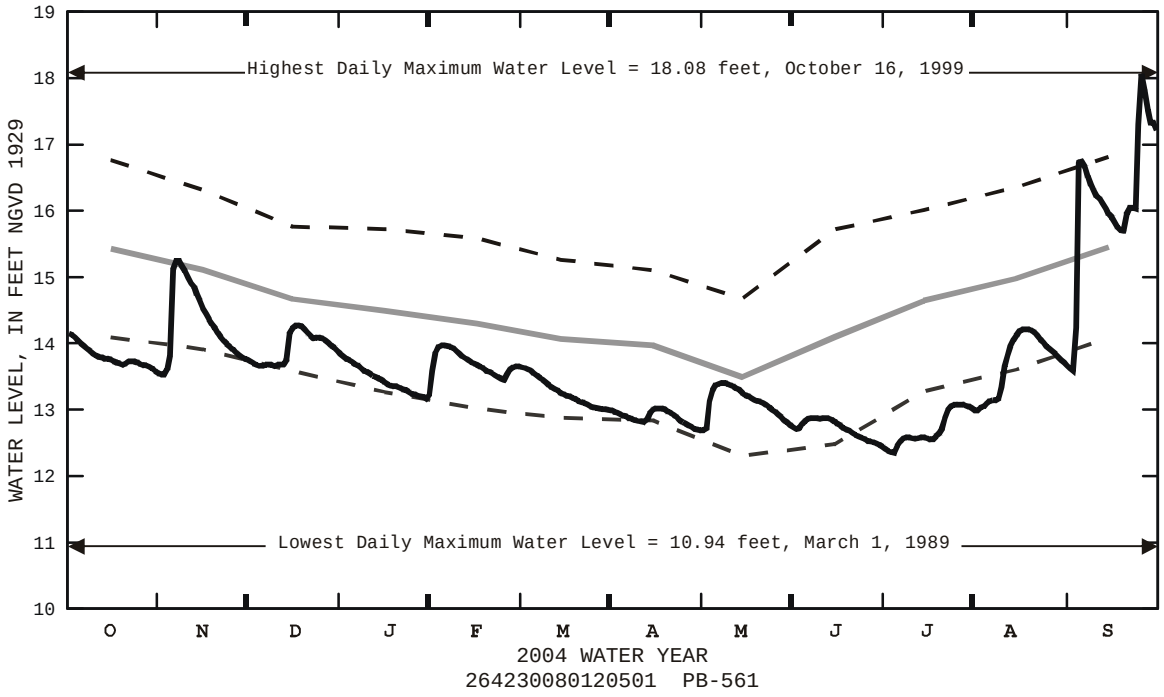


Figure 4. Historical water-level summary curves and annual mean of daily maximum water levels at well S-196A completed in the Biscayne aquifer in Miami-Dade County. Explanation of symbols and lines precedes figure 4.

SUMMARY OF HYDROLOGIC CONDITIONS (continued)

UPPER EAST COAST - SURFICIAL AQUIFER SYSTEM

Historical water-level summary and observed daily maximum water levels, 2004 water year



Historical daily maximum water levels, annual means of daily maximum water levels, and results of the Seasonal Kendall Trend Test

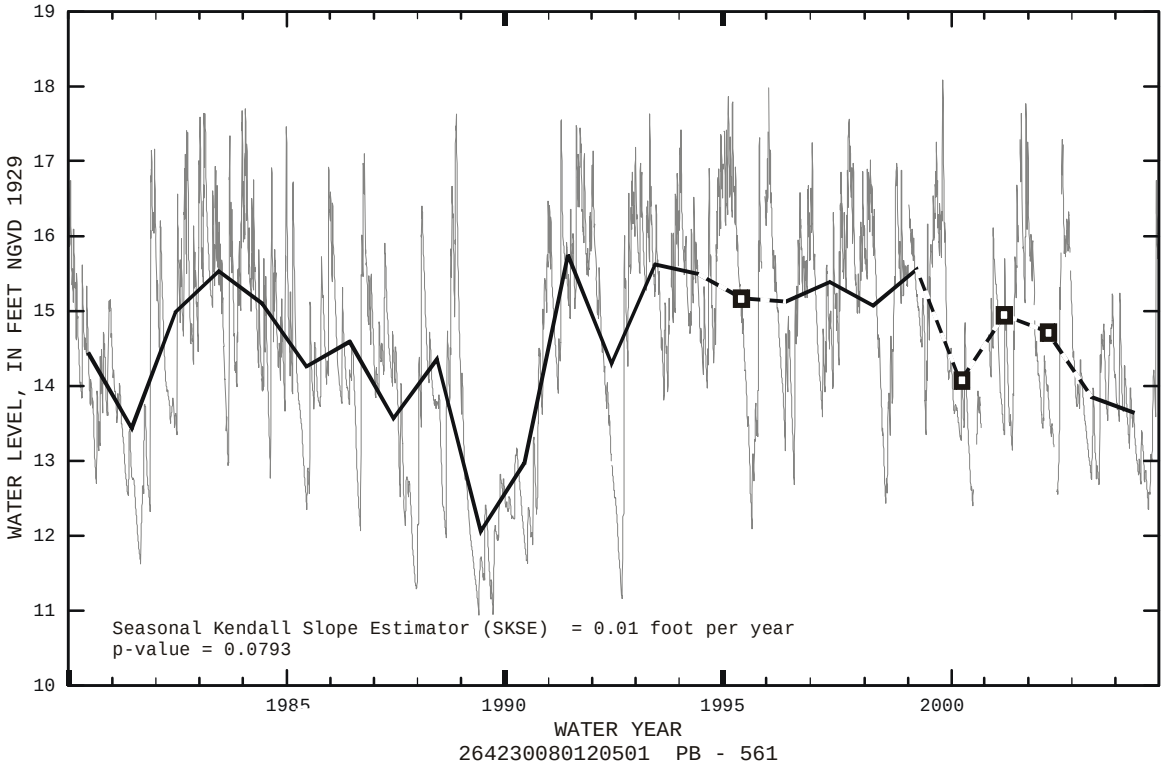
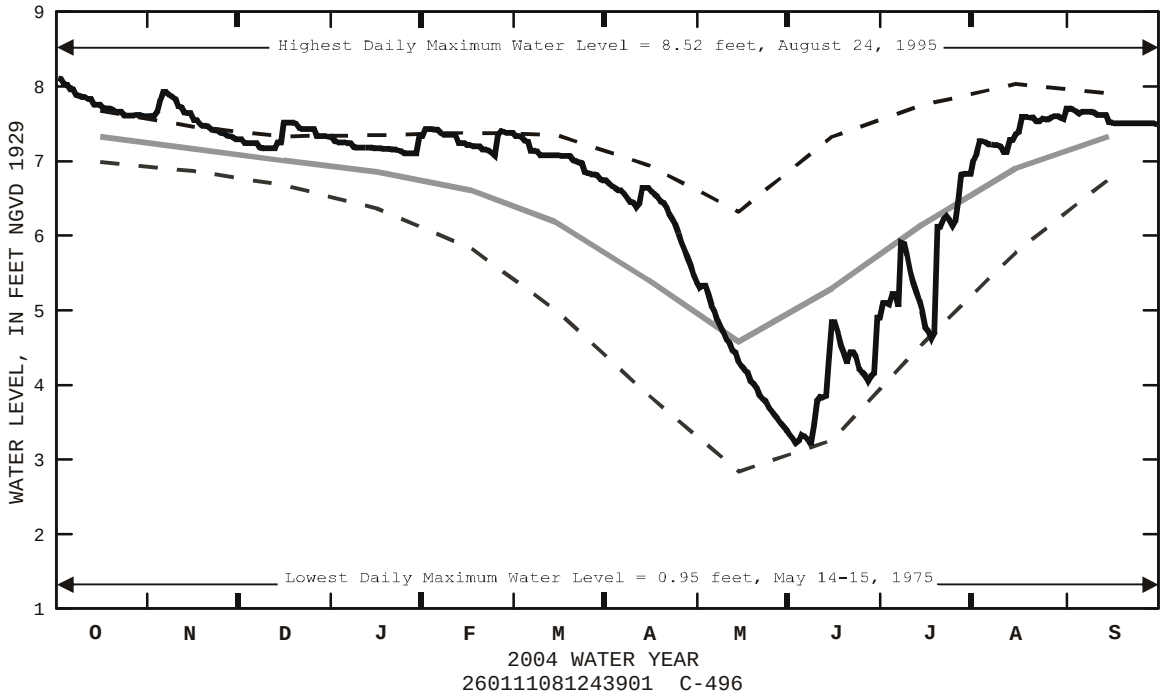


Figure 5. Historical water-level summary curves and annual mean of daily maximum water levels at well PB-561 completed in the surficial aquifer system in Palm Beach County. Explanation of symbols and lines precedes figure 4.

SUMMARY OF HYDROLOGIC CONDITIONS (continued)

LOWER WEST COAST - SURFICIAL AQUIFER

Historical water-level summary and observed daily maximum water levels, 2004 water year



Historical daily maximum water levels, annual means of daily maximum water levels, and results of the Seasonal Kendall Trend Test

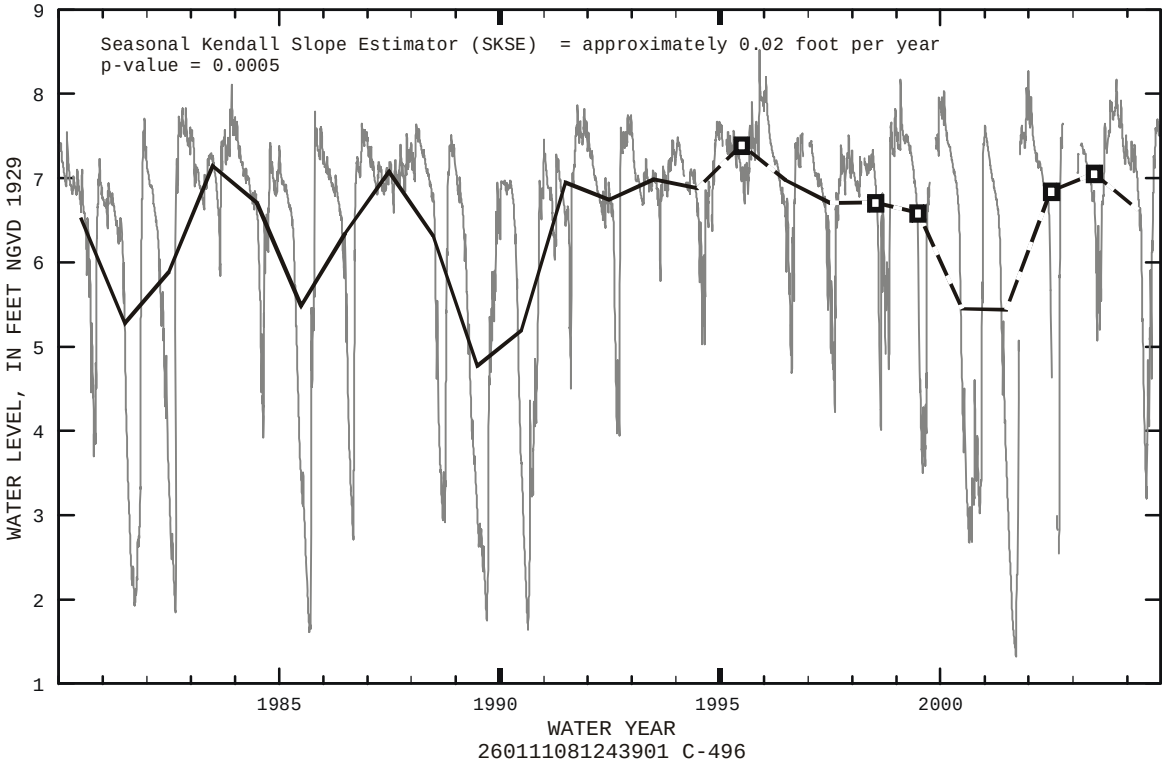
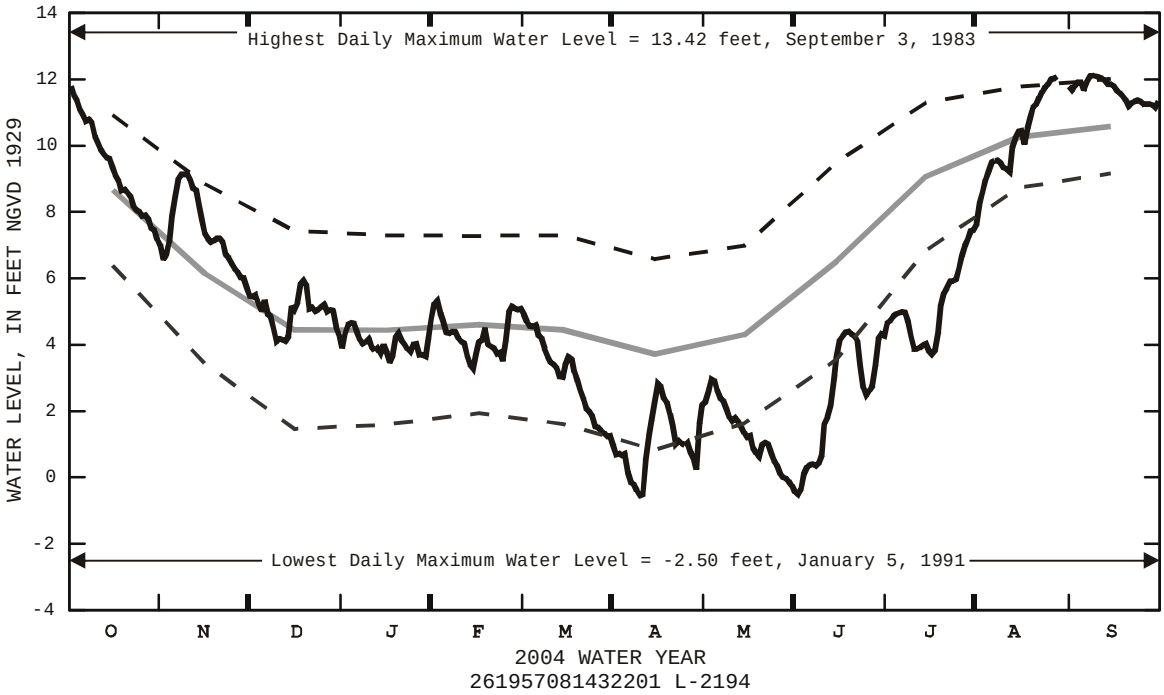


Figure 6. Historical water-level summary curves and annual mean of daily maximum water levels at well C-496 completed in the surficial aquifer system (water-table aquifer) in Collier County. Explanation of symbols and lines precedes figure 4.

SUMMARY OF HYDROLOGIC CONDITIONS (continued)

LOWER WEST COAST - LOWER TAMIAMI AQUIFER

Historical water-level summary and observed daily maximum water levels, 2004 water year



Historical daily maximum water levels, annual means of daily maximum water levels, and results of the Seasonal Kendall Trend Test

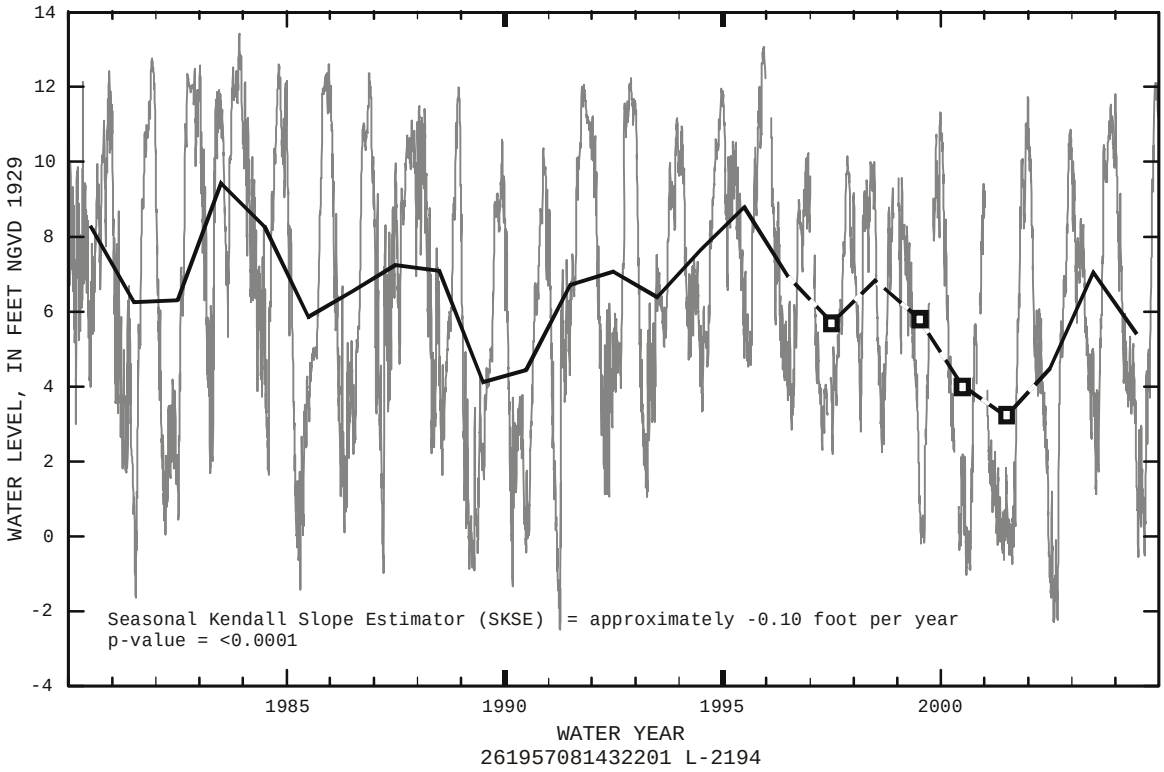
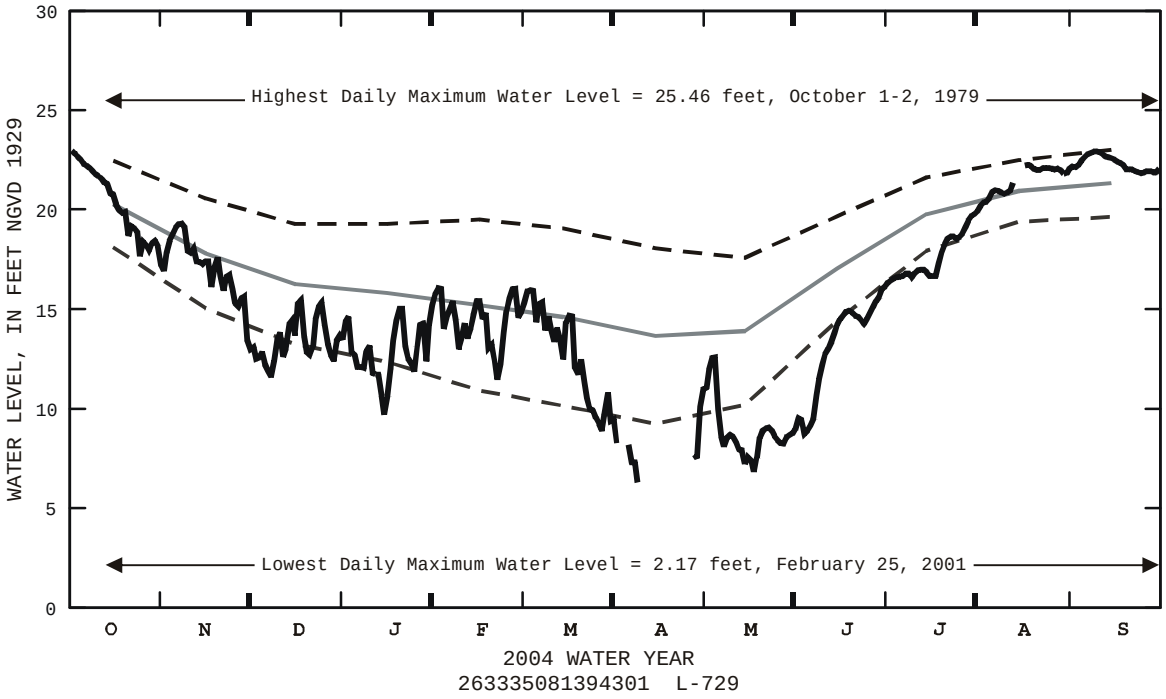


Figure 7. Historical water-level summary curves and annual mean of daily maximum water levels at well L-2194 completed in the lower Tamiami aquifer in Collier County. Explanation of symbols and lines precedes figure 4.

Historical water-level summary and observed daily maximum water levels, 2004 water year



Historical daily maximum water levels, annual means of daily maximum water levels, and results of the Seasonal Kendall Trend Test

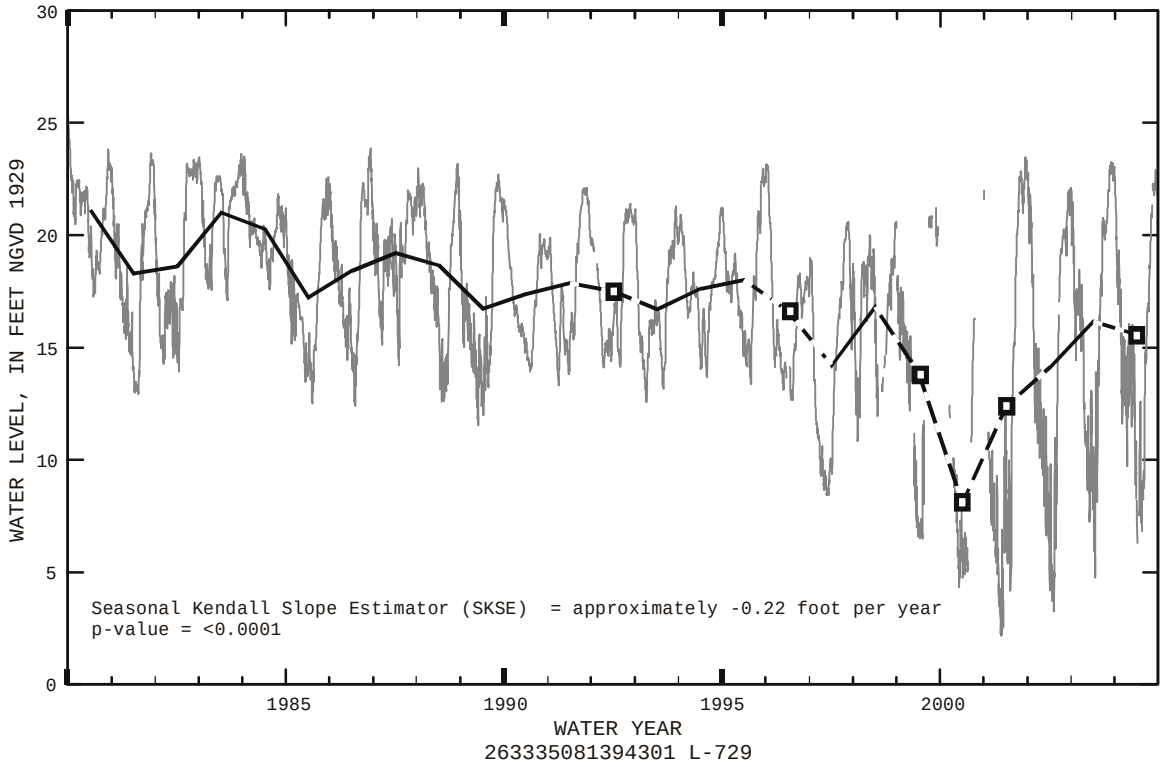
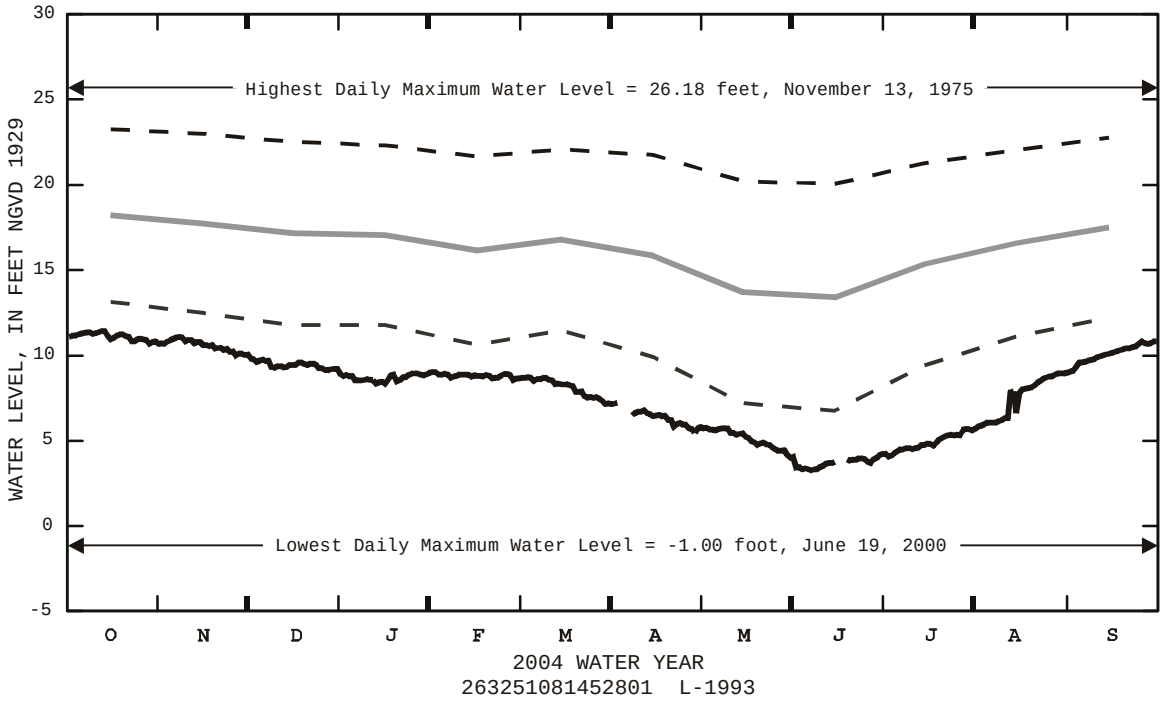


Figure 8. Historical water-level summary curves and annual mean of daily maximum water levels at well L-729 completed in the sandstone aquifer in Lee County. Explanation of symbols and lines precedes figure 4.

Historical water-level summary and observed daily maximum water levels, 2004 water year



Historical daily maximum water levels, annual means of daily maximum water levels, and results of the Seasonal Kendall Trend Test

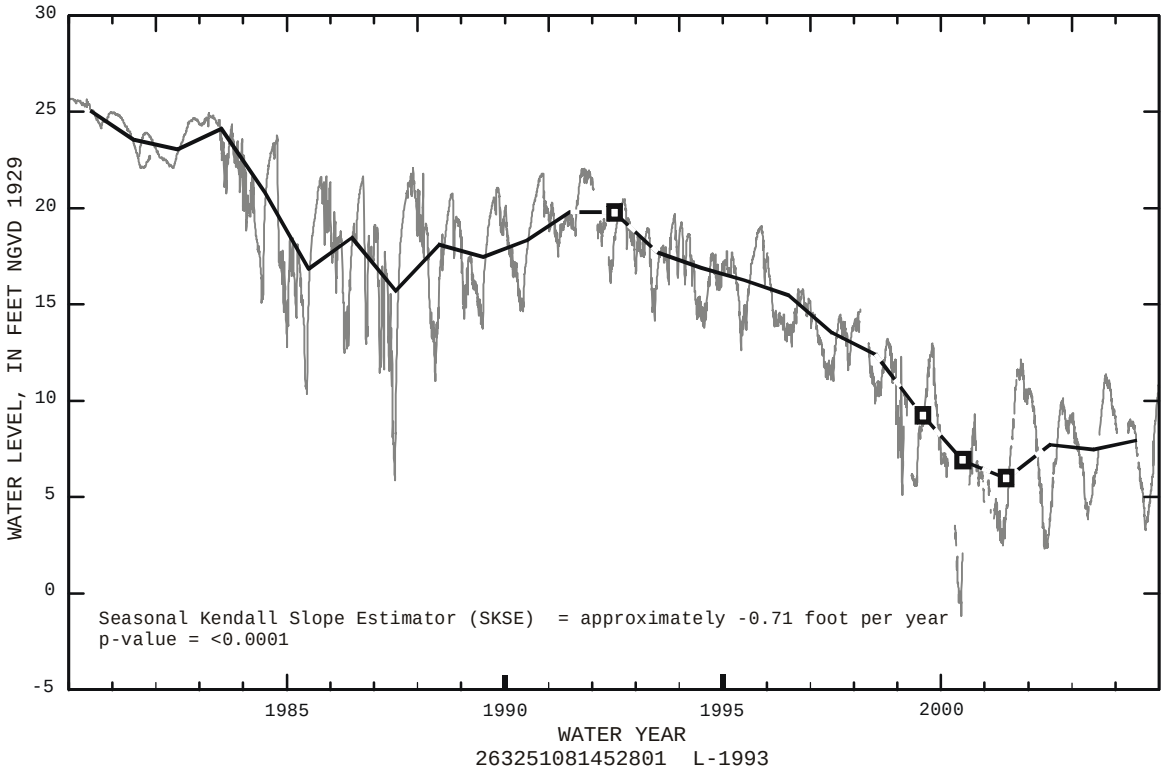
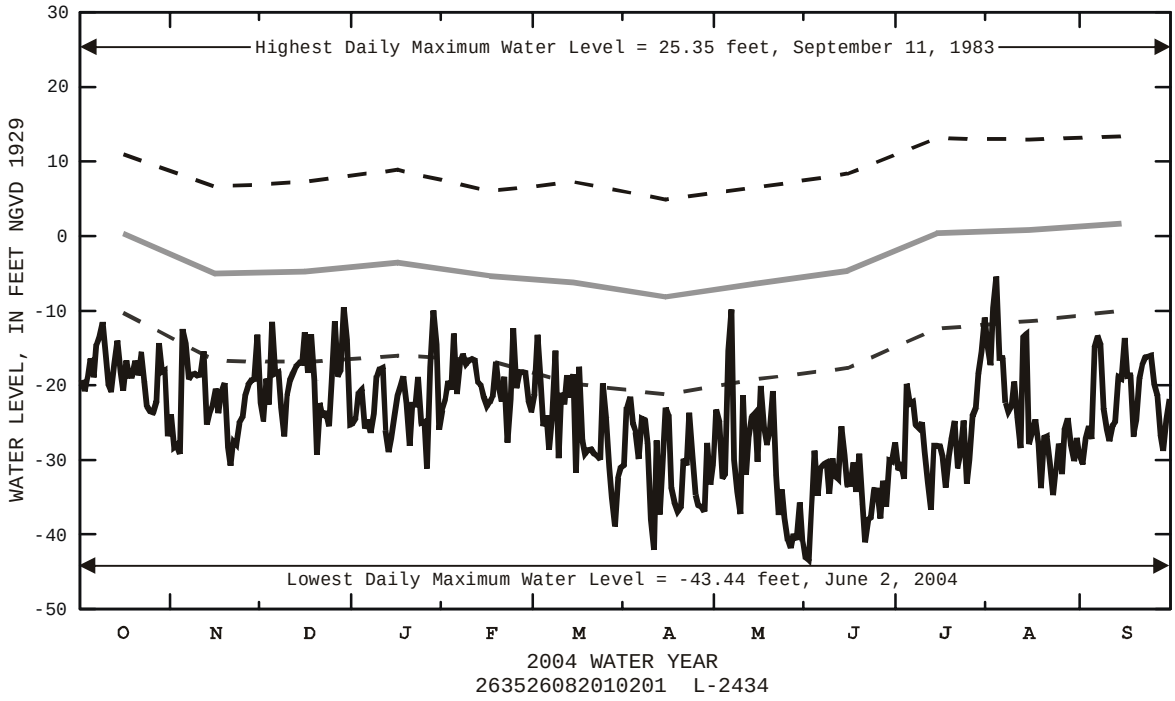


Figure 9. Historical water-level summary curves and annual mean of daily maximum water levels at well L-1993 completed in the mid-Hawthorn aquifer in Lee County. Explanation of symbols and lines precedes figure 4.

SUMMARY OF HYDROLOGIC CONDITIONS (continued)

LOWER WEST COAST - LOWER HAWTHORN AQUIFER (LOWER HAWTHORN PRODUCING ZONE)

Historical water-level summary and observed daily maximum water levels, 2004 water year



Historical daily maximum water levels, annual means of daily maximum water levels, and results of the Seasonal Kendall Trend Test

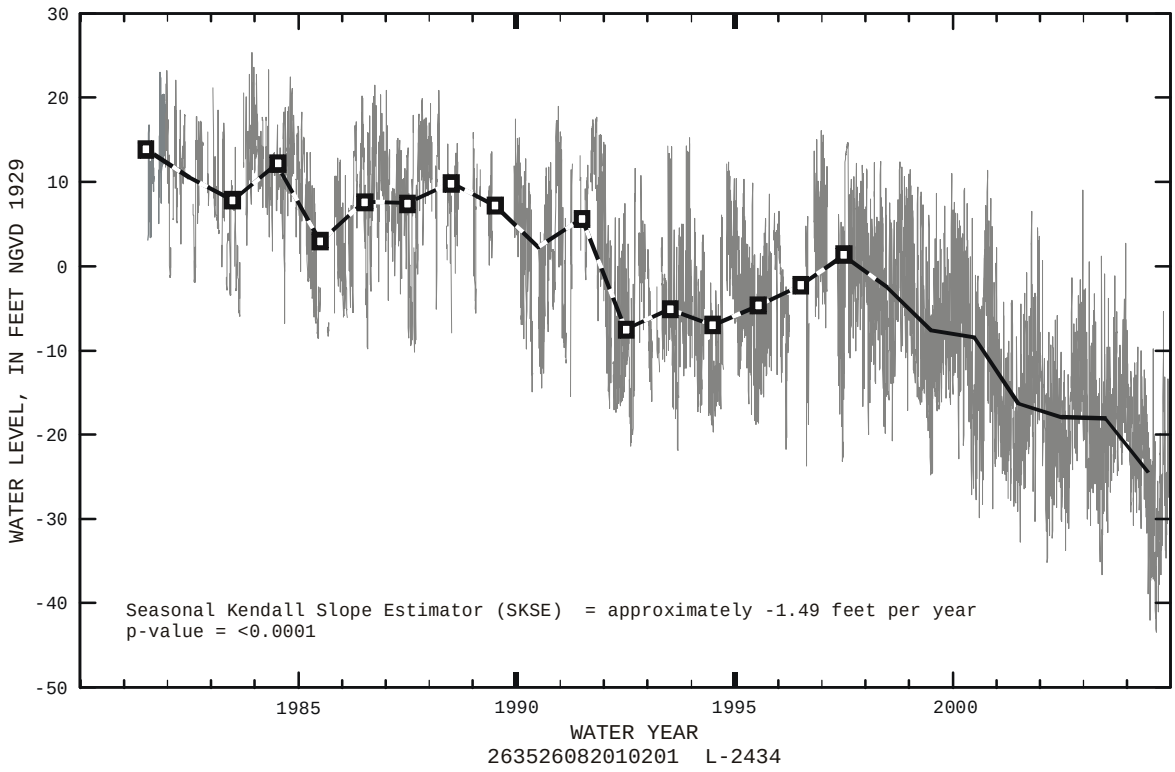


Figure 10. Historical water-level summary curves and annual mean of daily maximum water levels at well L-2434 completed in the lower Hawthorn producing zone in Lee County. Explanation of symbols and lines precedes figure.

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SPECIAL NETWORKS AND PROGRAMS

Hydrologic Benchmark Network is a network of 61 sites in small drainage basins in 39 States that was established in 1963 to provide consistent streamflow data representative of undeveloped watersheds nationwide, and from which data could be analyzed on a continuing basis for use in comparison and contrast with conditions observed in basins more obviously affected by human activities. At selected sites, water-quality information is being gathered on major ions and nutrients, primarily to assess the effects of acid deposition on stream chemistry. Additional information on the Hydrologic Benchmark Program may be accessed from *http://water.usgs.gov/hbn/*.

National Stream-Quality Accounting Network (NASQAN) is a network of sites used to monitor the water quality of large rivers within the Nation's largest river basins. From 1995 through 1999, a network of approximately 40 stations was operated in the Mississippi, Columbia, Colorado, and Rio Grande River basins. For the period 2000 through 2004, sampling was reduced to a few index stations on the Colorado and Columbia Rivers so that a network of 5 stations could be implemented on the Yukon River. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment (NAWQA) Program; (3) to characterize processes unique to large-river systems such as storage and re-mobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals. Additional information about the NASQAN Program may be accessed from *http://water.usgs.gov/nasqan/*.

The National Atmospheric Deposition Program/National Trends Network (NADP/NTN) is a network of monitoring sites that provides continuous measurement and assessment of the chemical constituents in precipitation throughout the United States. As the lead Federal agency, the USGS works together with over 100 organizations to provide a long-term, spatial and temporal record of atmospheric deposition generated from this network of 250 precipitation-chemistry monitoring sites. The USGS supports 74 of these 250 sites. This long-term, nationally consistent monitoring program, coupled with ecosystem research, provides critical information toward a national scorecard to evaluate the effectiveness of ongoing and future regulations intended to reduce atmospheric emissions and subsequent impacts to the Nation's land and water resources. Reports and other information on the NADP/NTN Program, as well as data from the individual sites, may be accessed from *http://bqs.usgs.gov/acidrain/*.

The USGS National Water-Quality Assessment (NAWQA) Program is a long-term program with goals to describe the status and trends of water-quality conditions for a large, representative part of the Nation's ground- and surface-water resources; to provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and to provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 42 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents is measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for water-resources managers to use in making decisions and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Communication and coordination between USGS personnel and other local, State, and Federal interests are critical components of the NAWQA Program. Each study unit has a local liaison committee consisting of representatives from key Federal, State, and local water-resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet semiannually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities to collaborate efforts among the agencies. Additional information about the NAWQA Program may be accessed from *http://water.usgs.gov/nawqa/*.

The USGS National Streamflow Information Program (NSIP) is a long-term program with goals to provide framework streamflow data across the Nation. Included in the program are creation of a permanent Federally funded streamflow network, research on the nature of streamflow, regional assessments of streamflow data and databases, and upgrades in the streamflow information delivery systems. Additional information about NSIP may be accessed from *http://water.usgs.gov/nsip/*.

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EXPLANATION OF THE RECORDS

A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage and content data for lakes and reservoirs, water-quality data for surface and ground water, and ground-water level data. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

Each data station, whether streamsite or well, in this report is assigned a unique identification number. The number usually is assigned when a station is first established and is retained for that station indefinitely. The systems used by the U.S. Geological Survey to assign identification numbers for surface-water stations and for ground-water well sites differ, but both are based on geographic location. The "downstream order" system is used for regular surface-water stations and the "latitude-longitude" system is used for wells and for surface-water stations where only miscellaneous observations are made.

Downstream Order and Station Number

Since October 1, 1950, hydrologic-station records in USGS reports have been listed in order of downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary entering between two main-stream stations is listed between those stations. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is located with respect to the stream to which it is immediately tributary is indicated by an indention in that list of stations in the front of this report. Each indentation represents one rank. This downstream order and system of indentation indicates which stations are on tributaries between any two stations and the rank of the tributary on which each station is located.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These station numbers are in the same downstream order used in this report. In assigning a station number, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list composed of both types of stations. Gaps are consecutive. The complete eight-digit (or 10-digit) number for each station, such as 02228500, which appears just to the left of the station name, includes the 2-digit part number "02" plus the 6- to 12-digit downstream-order number "228500." The part number designates the major river basin; for example, part "02" is the South Atlantic Slope and eastern Gulf of Mexico basins. In areas of high station density, an additional two digits may be added to the station identification number to yield a 10-digit number. The stations are numbered in downstream order as described above between stations of consecutive 8-digit numbers.

Numbering System for Wells and Miscellaneous Sites

The USGS well and miscellaneous site-numbering system is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, and the next 7 digits denote degrees, minutes, and seconds of longitude; the last 2 digits are a sequential number for wells within a 1-second grid. In the event that the latitude-longitude coordinates for a well and miscellaneous site are the same, a sequential number such as "01," "02," and so forth, would be assigned as one would for wells (see fig. 11). The 8-digit, downstream order station numbers are not assigned to wells and miscellaneous sites where only random water-quality samples or discharge measurements are taken.

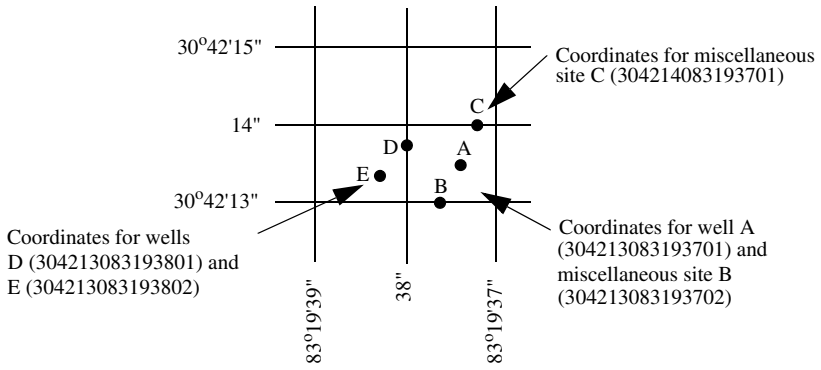

Figure 11. System for numbering wells and miscellaneous sites. (latitude and longitude)

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EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS

Records of stage and water discharge may be complete or partial. Complete records of discharge are those obtained using a stage-recording device through which either instantaneous or mean daily discharges may be computed for any time, or any period of time, during the period of record. Complete records of lake elevation, similarly, are those for which stage may be computed or estimated with reasonable accuracy for any time, or period of time. They may be obtained using a stage-recording device or daily or weekly observations, but need not be. Because daily mean discharges and lake elevations commonly are published for such stations, they are referred to as "daily stations."

By contrast, partial records are obtained through discrete measurements without using a continuous stage- recording device and pertain only to a few flow characteristics, or perhaps only one. The nature of the partial record is indicated by table titles such as "Crest-stage partial records," or "Low-flow partial records." Records of miscellaneous discharge measurements or of measurements from special studies, such as low-flow seepage studies, may be considered as partial records, but they are presented separately in this report.

Location of all complete-record and partial-record stations for which data are given in this report are shown in figures preceding each sub-basin.

Data Collection and Computation

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and volume of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from a water-stage recorder that is either downloaded electronically in the field to a laptop computer or similar device or is transmitted using telemetry such as GOES satellite, land-line or cellular-phone modems, or by radio transmission. Measurements of discharge are made with a current meter or acoustic Doppler current profiler, using the general methods adopted by the USGS. These methods are described in standard textbooks, USGS Water-Supply Paper 2175, and the Techniques of Water-Resources Investigations of the United States Geological Survey (TWRIs), Book 3, Chapters A1 through A19 and Book 8, Chapters A2 and B2, which may be accessed from *http://water.usgs.gov/pubs/twri/*. The methods are consistent with the American Society for Testing and Materials (ASTM) standards and generally follow the standards of the International Organization for Standards (ISO).

For stream-gaging stations, discharge-rating tables for any stage are prepared from stage-discharge curves. If extensions to the rating curves are necessary to express discharge greater than measured, the extensions are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, or computation of flow over dams and weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharges are computed from the daily values. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features of the stream channel, the daily mean discharge is computed by the shifting-control method in which correction factors based on individual discharge measurements and notes by engineers and observers are used when applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the controlling section, the daily mean discharge is computed by the shifting-control method.

The stage-discharge relation at some stream-gaging stations is affected by backwater from reservoirs, tributary streams, or other sources. Such an occurrence necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage at some distance from the base gage.

An index velocity is measured using ultrasonic or acoustic instruments at some stream-gaging stations and this index velocity is used to calculate an average velocity for the flow in the stream. This average velocity along with a stage-area relation is then used to calculate average discharge.

At some stations, stage-discharge relation is affected by changing stage. At these stations, the rate of change in stage is used as a factor in computing discharge.

At some stream-gaging stations in the northern United States, the stage-discharge relation is affected by ice in the winter; therefore, computation of the discharge in the usual manner is impossible. Discharge for periods of ice effect is computed on the basis of gage-height record and occasional winter-discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge from other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the volume or contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly changes are computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys, the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some stream-gaging stations, periods of time occur when no gage-height record is obtained or the recorded gage height is faulty and cannot be used to compute daily discharge or contents. Such a situation can happen when the recorder stops or otherwise fails to operate properly, the intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records from other stations in the same or nearby basins. Likewise, lake or reservoir volumes may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

Data Presentation

The records published for each continuous-record surface-water discharge station (stream-gaging station) consist of five parts: (1) the station manuscript or description; (2) the data table of daily mean values of discharge for the current water year with summary data; (3) a tabular statistical summary of monthly mean flow data for a designated period, by water year; (4) a summary statistics table that includes statistical data of annual, daily, and instantaneous flows as well as data pertaining to annual runoff, 7-day low-flow minimums, and flow duration; and (5) a hydrograph of discharge.

Station Manuscript

The manuscript provides, under various headings, descriptive information, such as station location; period of record; historical extremes outside the period of record; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge or lake content. Comments follow that clarify information presented under the various headings of the station description.

LOCATION.—Location information is obtained from the most accurate maps available. The location of the gaging station with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, given for only a few stations, were determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

DRAINAGE AREA.—Drainage areas are measured using the most accurate maps available. Because the type of maps available varies from one drainage basin to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps become available.

PERIOD OF RECORD.—This term indicates the time period for which records have been published for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not and whose location was such that its flow reasonably can be considered equivalent to flow at the present station.

REVISED RECORDS.—If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

GAGE.—The type of gage in current use, the datum of the current gage referred to a standard datum, and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.—All periods of estimated daily discharge either will be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily discharge table. (See section titled Identifying Estimated Daily Discharge.) Information is presented relative to the accuracy of the records, to special methods of computation, and to conditions that affect natural flow at the station. In addition, information may be presented pertaining to average discharge data for the period of record; to extremes data for the period of record and the current year; and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, the outlet works and spillway, and the purpose and use of the reservoir.

COOPERATION.—Records provided by a cooperating organization or obtained for the USGS by a cooperating organization are identified here.

EXTREMES OUTSIDE PERIOD OF RECORD.—Information here documents major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the USGS.

REVISIONS.—Records are revised if errors in published records are discovered. Appropriate updates are made in the USGS distributed data system, NWIS, and subsequently to its Web-based National data system, NWISWeb (*http://water.usgs.gov/nwis/nwis*). Users are encouraged to obtain all required data from NWIS or NWISWeb to ensure that they have the most recent data updates. Updates to NWISWeb are made on an annual basis.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because no current or, possibly, future station manuscript would be published for these stations to document the revision in a REVISED RECORDS entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the District Office (address given on the back of the title page of this report) to determine if the published records were revised after the station was discontinued. If, however, the data for a discontinued station were obtained by computer retrieval, the data would be current. Any published revision of data is always accompanied by revision of the corresponding data in computer storage.

Manuscript information for lake or reservoir stations differs from that for stream stations in the nature of the REMARKS and in the inclusion of a stage-capacity table when daily volumes are given.

Peak Discharge Greater than Base Discharge

Tables of peak discharge above base discharge are included for some stations where secondary instantaneous peak discharge data are used in flood-frequency studies of highway and bridge design, flood-control structures, and other flood-related projects. The base discharge value is selected so an average of three peaks a year will be reported. This base discharge value has a recurrence interval of approximately 1.1 years or a 91-percent chance of exceedence in any 1 year.

Data Table of Daily Mean Values

The daily table of discharge records for stream-gaging stations gives mean discharge for each day of the water year. In the monthly summary for the table, the line headed TOTAL gives the sum of the daily figures for each month; the line headed MEAN gives the arithmetic average flow in cubic feet per second for the month; and the lines headed MAX and MIN give the maximum and minimum daily mean discharges, respectively, for each month. Discharge for the month is expressed in cubic feet per second per square mile (line headed CFSM); or in inches (line headed IN); or in acre-feet (line headed AC-FT). Values for cubic feet per second per square mile and runoff in inches or in acre-feet may be omitted if extensive regulation or diversion is in effect or if the drainage area includes large noncontributing areas. At some stations, monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversion data or reservoir volumes are given. These values are identified by a symbol and a corresponding footnote.

Statistics of Monthly Mean Data

A tabular summary of the mean (line headed MEAN), maximum (MAX), and minimum (MIN) of monthly mean flows for each month for a designated period is provided below the mean values table. The water years of the first occurrence of the maximum and minimum monthly flows are provided immediately below those values. The designated period will be expressed as FOR WATER YEARS __-__, BY WATER YEAR (WY), and will list the first and last water years of the range of years selected from the PERIOD OF RECORD paragraph in the station manuscript. The

designated period will consist of all of the station record within the specified water years, including complete months of record for partial water years, and may coincide with the period of record for the station. The water years for which the statistics are computed are consecutive, unless a break in the station record is indicated in the manuscript.

Summary Statistics

A table titled SUMMARY STATISTICS follows the statistics of monthly mean data tabulation. This table consists of four columns with the first column containing the line headings of the statistics being reported. The table provides a statistical summary of yearly, daily, and instantaneous flows, not only for the current water year but also for the previous calendar year and for a designated period, as appropriate. The designated period selected, WATER YEARS __-__, will consist of all of the station records within the specified water years, including complete months of record for partial water years, and may coincide with the period of record for the station.

The water years for which the statistics are computed are consecutive, unless a break in the station record is indicated in the manuscript. All of the calculations for the statistical characteristics designated ANNUAL (see line headings below), except for the ANNUAL 7-DAY MINIMUM statistic, are calculated for the designated period using complete water years. The other statistical characteristics may be calculated using partial water years.

The date or water year, as appropriate, of the first occurrence of each statistic reporting extreme values of discharge is provided adjacent to the statistic. Repeated occurrences may be noted in the REMARKS paragraph of the manuscript or in footnotes. Because the designated period may not be the same as the station period of record published in the manuscript, occasionally the dates of occurrence listed for the daily and instantaneous extremes in the designated-period column may not be within the selected water years listed in the heading. When the dates of occurrence do not fall within the selected water years listed in the heading, it will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration-curve statistics and runoff data also are given. Runoff data may be omitted if extensive regulation or diversion of flow is in effect in the drainage basin.

The following summary statistics data are provided with each continuous record of discharge. Comments that follow clarify information presented under the various line headings of the SUMMARY STATISTICS table.

ANNUAL TOTAL.—The sum of the daily mean values of discharge for the year.

ANNUAL MEAN.—The arithmetic mean for the individual daily mean discharges for the year noted or for the designated period.

HIGHEST ANNUAL MEAN.—The maximum annual mean discharge occurring for the designated period.

LOWEST ANNUAL MEAN.—The minimum annual mean discharge occurring for the designated period.

HIGHEST DAILY MEAN.—The maximum daily mean discharge for the year or for the designated period.

LOWEST DAILY MEAN.—The minimum daily mean discharge for the year or for the designated period.

ANNUAL 7-DAY MINIMUM.—The lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1-March 31). The date shown in the summary statistics table is the initial date of the 7-day period. This value should not be confused with the 7-day 10-year low-flow statistic.

MAXIMUM PEAK FLOW.—The maximum instantaneous peak discharge occurring for the water year or designated period. Occasionally the maximum flow for a year may occur at midnight at the beginning or end of the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak flow is given in the table and the maximum flow may be reported in a footnote or in the REMARKS paragraph in the manuscript.

MAXIMUM PEAK STAGE.—The maximum instantaneous peak stage occurring for the water year or designated period. Occasionally the maximum stage for a year may occur at midnight at the beginning or end of the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak stage is given in the table and the maximum stage may be reported in the REMARKS paragraph in the manuscript or in a footnote. If the dates of occurrence of the maximum peak stage and maximum peak flow are different, the REMARKS paragraph in the manuscript or a footnote may be used to provide further information.

INSTANTANEOUS LOW FLOW.—The minimum instantaneous discharge occurring for the water year or for the designated period.

ANNUAL RUNOFF.—Indicates the total quantity of water in runoff for a drainage area for the year. Data reports may use any of the following units of measurement in presenting annual runoff data:

> Acre-foot (AC-FT) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.
>
> Cubic feet per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area.
>
> Inches (INCHES) indicate the depth to which the drainage area would be covered if all of the runoff for a given time period were uniformly distributed on it.

10 PERCENT EXCEEDS.—The discharge that has been exceeded 10 percent of the time for the designated period.

50 PERCENT EXCEEDS.—The discharge that has been exceeded 50 percent of the time for the designated period.

90 PERCENT EXCEEDS.—The discharge that has been exceeded 90 percent of the time for the designated period.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in two tables. The first table lists annual maximum stage and discharge at crest-stage stations, and the second table lists discharge

measurements at low-flow partial-record stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. These measurements are often made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for a special reason are called measurements at miscellaneous sites.

Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified. This identification is shown either by flagging individual daily values with the letter "e" and noting in a table footnote, "e–Estimated," or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

Accuracy of Field Data and Computed Results

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretations of records.

The degree of accuracy of the records is stated in the REMARKS in the station description. "Excellent" indicates that about 95 percent of the daily discharges are within 5 percent of the true value; "good" within 10 percent; and "fair," within 15 percent. "Poor" indicates that daily discharges have less than "fair" accuracy. Different accuracies may be attributed to different parts of a given record.

Values of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 ft^3/s; to the nearest tenths between 1.0 and 10 ft^3/s; to whole numbers between 10 and 1,000 ft^3/s; and to 3 significant figures above 1,000 ft^3/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharge values listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, values of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other Data Records Available

Information of a more detailed nature than that published for most of the stream-gaging stations such as discharge measurements, gage-height records, and rating tables is available from the Florida Integrated Science Center - Water and Restoration Studies (FISC-WRS). Also, most stream-gaging station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the FISC-WRS. (see address that is shown on the back of the title page of this report).

EXPLANATION OF PRECIPITATION RECORDS

Data Collection and Computation

Rainfall data generally are collected using electronic data loggers that measure the rainfall in 0.01-inch increments every 15 minutes using either a tipping-bucket rain gage or a collection well gage. Twenty-four hour rainfall totals are tabulated and presented. A 24-hour period extends from just past midnight of the previous day to midnight of the current day. Snowfall-affected data can result during cold weather when snow fills the rain-gage funnel and then melts as temperatures rise. Snowfall-affected data are subject to errors. Missing values are indicated by this symbol "---" in the table.

Data Presentation

Precipitation records collected at surface-water gaging stations are identified with the same station number and name as the stream-gaging station. Where a surface-water daily-record station is not available, the precipitation record is not published, but is available in the files of the U.S. Geological Survey.

Information pertinent to the history of a precipitation station is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, period of record, and general remarks.

The following information is provided with each precipitation station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.—See Data Presentation in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

PERIOD OF RECORD.—See Data Presentation in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

INSTRUMENTATION.—Information on the type of rainfall collection system is given.

REMARKS.—Remarks provide added information pertinent to the collection, analysis, or computation of records.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and Examination of Data

Surface-water samples for analysis usually are collected at or near stream-gaging stations. The quality-of-water records are given immediately following the discharge records at these stations.

The descriptive heading for water-quality records gives the period of record for all water-quality data; the period of daily record for parameters that are measured on a daily basis (specific conductance, water temperature, sediment discharge, and so forth); extremes for the current year; and general remarks.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, sampling date, or other pertinent data are given in the table containing the chemical analyses of the ground water.

Water Analysis

Most of the methods used for collecting and analyzing water samples are described in the TWRIs, which may be accessed from *http://water.usgs.gov/pubs/twri/*.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross-section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled at several verticals to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum and minimum values (and sometimes mean or median values) for each constituent measured, and are based on 15-minute or 1-hour intervals of recorded data beginning at 0000 hours and ending at 2400 hours for the day of record.

SURFACE-WATER-QUALITY RECORDS

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because discharge data are useful in the interpretation of surface-water quality. Records of surface-water quality in this report involve a variety of types of data and measurement frequencies.

Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A *continuous-record station* is a site where data are collected on a regularly scheduled basis. Frequency may be one or more times daily, weekly, monthly, or quarterly. A *partial-record station* is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A *miscellaneous sampling site* is a location other than a continuous- or partial-record station, where samples are collected to give better areal coverage to define water-quality conditions in the river basin.

A careful distinction needs to be made between *continuous records* as used in this report and *continuous recordings* that refer to a continuous graph or a series of discrete values recorded at short intervals. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently.

Accuracy of the Records

One of four accuracy classifications is applied for measured physical properties at continuous-record stations on a scale ranging from poor to excellent. The accuracy rating is based on data values recorded before any shifts or corrections are made. Additional consideration also is given to the amount of publishable record and to the amount of data that have been corrected or shifted.

Rating classifications for continuous water-quality records

[≤, less than or equal to; ±, plus or minus value shown; °C, degree Celsius; >, greater than; %, percent; mg/L, milligram per liter; pH unit, standard pH unit]

Measured physical property	Rating			
	Excellent	Good	Fair	Poor
Water temperature	≤ ±0.2 °C	> ±0.2 to 0.5 °C	> ±0.5 to 0.8 °C	> ±0.8 °C
Specific conductance	≤ ±3%	> ±3 to 10%	> ±10 to 15%	> ±15%
Dissolved oxygen	≤ ±0.3 mg/L	> ±0.3 to 0.5 mg/L	> ±0.5 to 0.8 mg/L	> ±0.8 mg/L
pH	≤ ±0.2 unit	> ±0.2 to 0.5 unit	> ±0.5 to 0.8 unit	> ±0.8 unit
Turbidity	≤ ±5%	> ±5 to 10%	> ±10 to 15%	> ±15%

Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of sample collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at the nearby surface-water station, the continuing water-quality record is published with its own station number and name in the regular downstream-order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in separate tables following the table of discharge measurements at miscellaneous sites.

On-Site Measurements and Sample Collection

In obtaining water-quality data, a major concern is assuring that the data obtained represent the naturally occurring quality of the water. To ensure this, certain measurements, such as water temperature, pH, and dissolved oxygen, must be made on site when the samples are taken. To assure that measurements made in the laboratory also represent the naturally occurring water, carefully prescribed procedures must be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory.

Procedures for on-site measurements and for collecting, treating, and shipping samples are given in TWRIs Book 1, Chapter D2; Book 3, Chapters A1, A3, and A4; and Book 9, Chapters A1-A9. Most of the methods used for collecting and analyzing water samples are described in the TWRIs, which may be accessed from *http://water.usgs.gov/pubs/twri/*. Also, detailed information on collecting, treating, and shipping samples can be obtained from the FISC-WRS (see address that is shown on the back of title page in this report).

Water Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at the time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published. Water temperatures measured at the time of water-discharge measurements are on file in the FISC-WRS office. (see address that is shown on the back of title page in this report).

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross section.

During periods of rapidly changing flow or rapidly changing concentration, samples may be collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided-day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided-day method. For periods when no samples were collected, daily discharges of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples are collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observation, such data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of suspended-sediment discharge, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included for some stations.

Laboratory Measurements

Samples for biochemical oxygen demand (BOD) and indicator bacteria are analyzed locally. All other samples are analyzed in the USGS laboratory in Lakewood, Colorado, unless otherwise noted. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chapter C1. Methods used by the USGS laboratories are given in the TWRIs, Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, and A4. The TWRI publications may be accessed from *http://water.usgs.gov/pubs/twri/*. These methods are consistent with ASTM standards and generally follow ISO standards.

Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily. Tables of chemical, physical, biological, radiochemical data, and so forth, obtained at a frequency less than daily are presented first. Tables of “daily values” of specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment then follow in sequence.

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.—See Data Presentation information in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

DRAINAGE AREA.—See Data Presentation information in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

PERIOD OF RECORD.—This indicates the time periods for which published water-quality records for the station are available. The periods are shown separately for records of parameters measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the parameters individually.

INSTRUMENTATION.—Information on instrumentation is given only if a water-quality monitor temperature record, sediment pumping sampler, or other sampling device is in operation at a station.

REMARKS.—Remarks provide added information pertinent to the collection, analysis, or computation of the records.

COOPERATION.—Records provided by a cooperating organization or obtained for the USGS by a cooperating organization are identified here.

EXTREMES.—Maximums and minimums are given only for parameters measured daily or more frequently. For parameters measured weekly or less frequently, true maximums or minimums may not have been obtained. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.—Records are revised if errors in published water-quality records are discovered. Appropriate updates are made in the USGS distributed data system, NWIS, and subsequently to its Web-based National data system, NWISWeb (*http://waterdata.usgs.gov/nwis*). Users of USGS water-quality data are encouraged to obtain all required data from NWIS or NWISWeb to ensure that they have the most recent updates. Updates to the NWISWeb are made on an annual basis.

The surface-water-quality records for partial-record stations and miscellaneous sampling sites are published in separate tables following the table of discharge measurements at miscellaneous sites. No descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.

Remark Codes

The following remark codes may appear with the water-quality data in this section:

Printed Output	Remark
E	Value is estimated.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
M	Presence of material verified, but not quantified.
N	Presumptive evidence of presence of material.
U	Material specifically analyzed for, but not detected.
A	Value is an average.

Water-Quality Control Data

The USGS National Water Quality Laboratory collects quality-control data on a continuing basis to evaluate selected analytical methods to determine long-term method detection levels (LT-MDLs) and laboratory reporting levels (LRLs). These values are re-evaluated each year on the basis of the most recent quality-control data and, consequently, may change from year to year.

This reporting procedure limits the occurrence of false positive error. Falsely reporting a concentration greater than the LT-MDL for a sample in which the analyte is not present is 1 percent or less. Application of the LRL limits the occurrence of false negative error. The chance of falsely reporting a non-detection for a sample in which the analyte is present at a concentration equal to or greater than the LRL is 1 percent or less.

Accordingly, concentrations are reported as less than LRL for samples in which the analyte was either not detected or did not pass identification. Analytes detected at concentrations between the LT-MDL and the LRL and that pass identification criteria are estimated. Estimated concentrations will be noted with a remark code of “E.” These data should be used with the understanding that their uncertainty is greater than that of data reported without the E remark code.

Data generated from quality-control (QC) samples are a requisite for evaluating the quality of the sampling and processing techniques as well as data from the actual samples themselves. Without QC data, environmental sample data cannot be adequately interpreted because the errors associated with the sample data are unknown. The various types of QC samples collected by this office are described in the following section. Procedures have been established for the storage of water-quality-control data within the USGS. These procedures allow for storage of all derived QC data and are identified so that they can be related to corresponding environmental samples. These data are not presented in this report but are available from the FISC-WRS. (see address that is shown on the back of the title page of this report).

Blank Samples

Blank samples are collected and analyzed to ensure that environmental samples have not been contaminated in the overall data-collection process. The blank solution used to develop specific types of blank samples is a solution that is free of the analytes of interest. Any measured value signal in a blank sample for an analyte (a specific component measured in a chemical analysis) that was absent in the blank solution is believed to be due to contamination. Many types of blank samples are possible; each is designed to segregate a different part of the overall data-collection process. The types of blank samples collected in this area are:

Field blank—A blank solution that is subjected to all aspects of sample collection, field processing preservation, transportation, and laboratory handling as an environmental sample.

Trip blank—A blank solution that is put in the same type of bottle used for an environmental sample and kept with the set of sample bottles before and after sample collection.

Equipment blank—A blank solution that is processed through all equipment used for collecting and processing an environmental sample (similar to a field blank but normally done in the more controlled conditions of the office).

Sampler blank—A blank solution that is poured or pumped through the same field sampler used for collecting an environmental sample.

Filter blank—A blank solution that is filtered in the same manner and through the same filter apparatus used for an environmental sample.

Splitter blank—A blank solution that is mixed and separated using a field splitter in the same manner and through the same apparatus used for an environmental sample.

Preservation blank—A blank solution that is treated with the sampler preservatives used for an environmental sample.

Reference Samples

Reference material is a solution or material prepared by a laboratory. The reference material composition is certified for one or more properties so that it can be used to assess a measurement method. Samples of reference material are submitted for analysis to ensure that an analytical method is accurate for the known properties of the reference material. Generally, the selected reference material properties are similar to the environmental sample properties.

Replicate Samples

Replicate samples are a set of environmental samples collected in a manner such that the samples are thought to be essentially identical in composition. Replicate is the general case for which a duplicate is the special case consisting of two samples. Replicate samples are collected and analyzed to establish the amount of variability in the data contributed by some part of the collection and analytical process. Many types of replicate samples are possible, each of which may yield slightly different results in a dynamic hydrologic setting, such as a flowing stream. The types of replicate samples collected in this district are:

Concurrent samples—A type of replicate sample in which the samples are collected simultaneously with two or more samplers or by using one sampler and alternating the collection of samples into two or more compositing containers.

Sequential samples—A type of replicate sample in which the samples are collected one after the other, typically over a short time.

Split sample—A type of replicate sample in which a sample is split into subsamples, each subsample contemporaneous in time and space.

Spike Samples

Spike samples are samples to which known quantities of a solution with one or more well-established analyte concentrations have been added. These samples are analyzed to determine the extent of matrix interference or degradation on the analyte concentration during sample processing and analysis.

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Generally, only ground-water level data from selected wells with continuous record from a basic network of observation wells are published in this report. This basic network contains observation wells located so that the most significant data are obtained from the fewest wells in the most important aquifers.

Site Identification Numbers

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is produced for local needs. (See NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES in this report for a detailed explanation).

Data Collection and Computation

Measurements are made in many types of wells, under varying conditions of access and at different temperatures; hence, neither the method of measurement nor the equipment can be standardized. At each observation well, however, the equipment and techniques used are those that will ensure that measurements at each well are consistent.

Most methods for collecting and analyzing water samples are described in the TWRIs referred to in the On-site Measurements and Sample Collection and the Laboratory Measurements sections in this report. In addition, TWRI Book 1, Chapter D2, describes guidelines for the collection and field analysis of ground-water samples for selected unstable constituents. Procedures for on-site measurements and for collecting, treating, and shipping samples are given in TWRIs Book 1, Chapter D2; Book 3, Chapters A1, A3, and A4; and Book 9, Chapters A1 through A9. The TWRI publications may be accessed from *http://water.usgs.gov/pubs/twri/*. The values in this report represent water-quality conditions at the time of sampling, as much as possible, and that are consistent with available sampling techniques and methods of analysis. These methods are consistent with ASTM standards and generally follow ISO standards. Trained personnel collected all samples. Most of the wells sampled were pumped long enough to ensure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings. Wells that have very long open intervals (generally 20 ft or greater) , were sampled using a down hole sampling device that collects a water sample from the bottom of the well.

Water-level measurements in this report are given in feet with reference to land-surface datum, elevation described in feet above or below National Geodetic Vertical Datum of 1929 (NGVD 29), unless otherwise noted. The elevation of the land-surface datum (lsd) above sea level is also given in the well description. Land-surface datum is a datum plane that is approximately at land surface at each well. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (EOM).

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth of water of several hundred feet, the error in determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given only to a tenth of a foot or a larger unit.

Accuracy of Ground-Water Level Data

A number of factors affect the accuracy of the ground-water level data published in this report. These factors can be logically separated into those that are related to ground-water level measurement methods (Method-Related Factors) and those that are independent of the methods.

Method-Independent Factors

Water levels are determined using a specific measuring point (MP) at each well. The elevation of this point for most wells published in this report was determined relative to the National Geodetic Vertical Datum of 1929 (NGVD 1929). Scientific advances in determining vertical elevations have caused the development of the North American Vertical Datum of 1988 (NAVD 1988). The National Geodetic Survey (NGS) has completed an extensive releveling effort that provides elevations referenced to NAVD 1988. The U.S. Geological Survey is currently considering how best to utilize the newer NAVD 1988 and yet maintain the continuity of data in south Florida.

Some stations in this report have been surveyed using a benchmark elevation surveyed in NAVD 1988. In an attempt to publish the elevation of each station within the hydrologic monitoring network in the same datum plane, the elevation of the NAVD 1988 benchmark was converted using the VERTCON or CORPSCON software of the National Geodetic Survey to provide a reference elevation in NGVD 1929. The NGVD 1929 datum determined using VERTCON or CORPSCON is known to differ from the historic NGVD 1929 elevation datum (historic NGVD). Hydrologic model development for some sites has required publication of data in the NAVD 1988 datum. The datum of each station is clearly defined in the DATUM or GAGE section of each station manuscript.

Water levels in wells open to highly transmissive aquifers may be affected by barometric pressure. The water-level data in this publication have not been adjusted for barometric pressure effects. Water levels may also be affected by density differences. For example highly saline water has a greater density than fresh water. Water levels have not been adjusted for density effects.

Method-Related Factors

Water-level data are collected using a number of different methods. Each method has inherent factors that affect the accuracy of measured water levels.

STEEL TAPE AND CHALK -- This generally is the most accurate method of measuring the elevation difference between a reference point and the water level in a ground-water well. When the water level is measured using this method, at least two separate measurements are performed. These measurements must agree to within 0.02 ft before the average value is recorded. The precision of this method, is $\pm$ 0.02 ft.

PRESSURE GAGE -- Wells under artesian pressure are monitored using a mechanical pressure gage. These pressure gages are graduated to 0.2 ft. Gages are periodically checked using a pressure manifold to compare gage readings over a range of known pressures. Corrections are applied to the gage readings based on these checks. The reported value is estimated to the nearest tenth of a foot. The precision of this method should be considered to be about $\pm$ 0.1 ft.

FLOAT AND RECORDER -- The accuracy of data recorded using this method is affected by friction within the recorder system as well as friction between the float and the well casing. In large-diameter wells (6 in. or greater), where large floats are used, these effects are minimal; however in small-diameter wells (2 to 6 in.) these effects can be substantial. Friction might significantly affect the data where water-surface fluctuations are very small. Every effort has been made to reduce frictional effects to a minimum.

The accuracy of this method may also be affected by slippage of the float tape or wire, leaks in the float, or biological factors (for example, amphibians crawling on the float). The accuracy of the recorder reading is periodically verified using steel tape and chalk measurements. When the difference between these tape measurements and the recorded value is 0.05 ft or greater, the recorder is reset and a gage-height correction is applied to the data. Uncertainty in water levels for wells verified by steel tape measurements is generally no greater than $\pm$ 0.05 ft.

PRESSURE TRANSDUCER AND RECORDER -- In wells where artesian pressure, frictional effects, or an extensive range in water levels have made float and recorder systems infeasible, pressure transducers have been installed. Transducers are selected that meet or exceed the float and recorder system accuracy. Water levels may be verified using either steel tape or pressure gage measurements. Uncertainty in those verified by steel-tape measurements is generally considered to be no greater than $\pm$ 0.05 ft and uncertainty for those verified using pressure gage readings is generally considered to be about $\pm$ 0.1 ft.

The type of method used to collect water-level data is identified in the INSTRUMENTATION section of each station manuscript.

Data Presentation

Water-level data are presented in alphabetical order by county. The primary identification number for a given well is the 15-digit site identification number that appears in the upper left corner of the table. The secondary identification number is the local or county well number. Well locations are shown in figures for each county, each well is identified on the map by an index number that is cross-referenced to its identification number in a location key preceding the map.

Each well record consists of three parts: the well description, the data table of water levels observed during the water year, and, for most wells, a hydrograph following the data table. Well descriptions are presented in the headings preceding the tabular data.

The following comments clarify information presented in these various headings.

LOCATION.—This paragraph follows the well-identification number and reports the hydrologic-unit number and a geographic point of reference. Latitudes and longitudes used in this report are reported as North American Datum of 1927 unless otherwise specified.

AQUIFER.—This entry designates by name and geologic age the aquifer that the well taps.

WELL CHARACTERISTICS.—This entry describes the well in terms of depth, casing diameter and depth or screened interval, method of construction, use, and changes since construction.

INSTRUMENTATION.—This paragraph provides information on both the frequency of measurement and the collection method used, allowing the user to better evaluate the reported water-level extremes by knowing whether they are based on continuous, monthly, or some other frequency of measurement.

DATUM.—This entry describes the measuring point. The measuring point is described physically (such as top of casing, top of instrument shelf, and so forth).

LAND-SURFACE DATUM.—This is a new section started for water year 2003, to document land-surface datum. The elevation of the land-surface datum is described in feet above National Geodetic Vertical Datum of 1929 (NGVD 29), unless otherwise noted; it is reported with a precision depending on the method of determination.

REMARKS.—This entry describes factors that may influence the water level in a well or the measurement of the water level, when various methods of measurement were begun, and the network (climatic, terrane, local, or areal effects) or the special project to which the well belongs.

PERIOD OF RECORD.—This entry indicates the time period for which records are published for the well, the month and year at the start of publication of water-level records by the USGS, and the words "to current year" if the records are to be continued into the following year. Time periods for which water-level records are available, but are not published by the USGS, may be noted.

EXTREMES FOR PERIOD OF RECORD.—This entry contains the highest and lowest instantaneously recorded or measured water levels of the period of published record, with respect to land-surface datum or sea level, and the dates of occurrence.

Water-Level Tables

A table of water levels follows the well description for each well. Water-level measurements in this report are given in feet with reference to either sea level or land-surface datum (lsd). Missing records are indicated by dashes in place of the water-level value.

For wells not equipped with recorders, water-level measurements were obtained periodically by steel or electric tape or pressure gage. Tables of periodic water-level measurements in these wells show the date of measurement and the measured water-level value.

Hydrographs

Hydrographs are a graphic display of water-level fluctuations over a period of time. In this report, current water year and, when appropriate, period-of-record hydrographs are shown. Hydrographs that display periodic water-level measurements show points that may be connected with a dashed line from one measurement to the next. Hydrographs that display recorder data show a solid line representing the mean water level recorded for each day. Missing data are indicated by a blank space or break in a hydrograph. Missing data may occur as a result of recorder malfunctions, battery failures, or mechanical problems related to the response of the recorder's float mechanism to water-level fluctuations in a well.

RECORDS OF BULK ELECTRICAL CONDUCTIVITY

Bulk electrical conductivity is the combined electrical conductivity of all material (including pore water) within an approximately 8- to 40-inch doughnut-shaped area surrounding an electromagnetic induction probe (McNeill and others, 1990). Bulk electrical conductivity is affected by different physical and chemical properties of the material including the dissolved-solids concentration of the pore water, and the lithology and porosity of the rock. Polyvinyl chloride (PVC) casings do not interfere with these measurements; however, for those wells where a steel or galvanized iron casing extends part way down the well, the probe cannot sense the materials outside of the casing. As the probe is lowered down the well and out of the influence of a metallic casing, a spike is usually created in the data. Metal well centralizers can also affect the data collected and can cause very large spikes in the data at the depths where the centralizers are installed. These spikes are much different than the changes in bulk electromagnetic conductivity caused by natural lithologic or pore water variations and as such are readily recognizable. As the probe passes through different layers of rock, the different physical properties will cause variation in the recorded conductivity values. A clean sand or sandstone will generally produce lower conductivity values than clay or mudstone. Although the properties of the rocks or well construction will remain constant from year to year, those of the pore water may change due to saltwater intrusion. Conductivity values from freshwater-saturated rocks typically are less than 25 mS/m, whereas conductivity values from saltwater-saturated rocks are typically greater than 67 mS/m (Hittle, 1999). Therefore, electromagnetic induction logging can be used to assess increases or decreases in the conductivity of pore waters caused by movement of the saltwater interface.

Data Collection and Computation

Measurements generally are made during the period of lowest aquifer water levels, in April of each year. However, some wells may have additional logs. During periods of decreased water levels, saltwater intrusion into a freshwater aquifer is likely to be at a maximum. In wells where saltwater is detectable, the graphic representation of data from successive years will show any vertical movement of the saltwater-freshwater interface. Measuring this vertical movement of the interface is the primary use of the bulk electrical conductivity logs published in this report. Upward movement of the interface between freshwater and saltwater in a monitoring well indicates that saltwater intrusion is increasing in that area. Downward movement of the interface indicates recession of the saltwater front near the monitoring well.

In the bulk electrical conductivity graphs of some of the wells logged for this report, the interface position can be seen as the point where low values of conductivity increase suddenly to values generally above 67 mS/m (usually near the bottom of the well). However, the interface position is not as apparent in other wells, and in some, there is no interface. Some locations have been identified where saltwater contamination of the aquifer is occurring above the base of the aquifer as a result of seepage of saline from canals. The bulk electrical conductivity logs detect the changes in fluid conductivity that occur as a result of this seepage.

In wells selected for electromagnetic induction logging, a water sample may be collected and analyzed as a check of the level of salinity. Because bulk electrical conductivity is a function of fluid conductivity, lithology, and porosity, the relationship between the electromagnetic induction logs and the chloride samples may not be as obvious as is the general relationship between fluid conductivity and chloride concentrations. If the rock is not very porous, then the change in bulk electrical conductivity caused by changes in the salinity of the pore water may be smaller than might be expected. Nonetheless, the long-term changes in the bulk electrical conductivity logs are sufficient to assess upward or downward movement of the interface. To aid in interpretation of the bulk electrical conductivity logs, the chloride concentration is shown on the graph of bulk electrical conductivity if water samples have been collected.

The instrument used to collect data for this report is calibrated prior to each field session. The calibration procedure establishes a mathematical constant (calibration factor) that is used to convert raw instrument readings in counts per second (cps) into values of bulk electrical conductivity in millisiemens per meter (mS/m). When data were graphed for the 2000 annual water resources data report, offsets and amplitude differentials occurred in the calibrated values of bulk electrical conductivity for each well between successive years. Investigation revealed that some of the observed offsets and amplitude differentials were caused by differing calibration factors between years. Most calibration factors differed because of temperature and humidity differences during calibration. The calibration procedures adopted during the 2000 water year were designed to minimize the influence of variable temperature and humidity. Before calibrating, the electromagnetic induction probe was lowered into a well and allowed to equilibrate in the water column. The probe was then removed from the well and the instrument immediately calibrated.

Factors other than variable temperature and humidity also have caused offsets and amplitude differentials. One such example occurred with data collected for the 2000 water year. Prior to logging for the 2000 water year, the instrument firmware and software was updated. After logging, it was found that the data had been truncated at the decimal point. Errors in calibration have also been identified and corrected (see Accuracy of Bulk Electrical Conductivity).

Accuracy of Bulk Electrical Conductivity

There are two components that affect the quality of the electromagnetic induction logs published in this report: (1) vertical or depth accuracy, and (2) accuracy and precision of measured bulk electrical conductivity. Vertical accuracy, which affects the determined interface position, is the most critical factor in this monitoring effort. A quality control program sets the velocity of the probe at 12 ft/min (feet per minute) while logging. Before logging begins, a spot on the probe, 3.32 feet above the sensing head, is aligned with the measuring point of the well. Where possible, the data recorded as the probe was moved up the well were used to produce the graphs for this report. Depth values from successive water years were adjusted, if needed, to coincide at one or more specific conductivity peak recorded from an upper part of the well. Depth values were interpolated to the nearest tenth of a foot. The precision of depth determinations using this reporting method should be considered to be about $\pm$0.1 foot.

The accuracy and precision of measured bulk electrical conductivity are a function of both the inherent accuracy of the electromagnetic induction probe and its calibration. The inherent precision of the probe is considered by the manufacturer to be $\pm$5 percent of the full scale. For the logs collected, the electromagnetic induction probe was set to a full scale of 1,000 mS/m. This translates into a precision of $\pm$50 mS/m at full scale. Analysis indicated that the offsets caused by the effects of temperature and humidity on calibration were generally within this range.

In the 1998 water year and for all water years after 2001, the electromagnetic induction probe was calibrated using standards of 0 and 345 mS/m. There are a number of monitoring wells where the measured bulk electrical conductivity exceeds 345 mS/m. For these wells, a calibration standard of 345 mS/m was still used. This is because the probe would have to be set to a full scale of 10,000 mS/m in order to be calibrated using the next available standard (1,301 mS/m). This value would greatly exceed the normal range in bulk electrical conductivity expected. The 345 mS/m calibration constant was also considered to be acceptable because within the range 0 to 1,000 mS/m, the response of the probe is considered to be linear; therefore calibrating the probe to this standard should not significantly reduce accuracy.

In the water years prior to 2002 (excluding 1998), the electromagnetic induction probe generally was calibrated using a 1,301 mS/m standard even though the full scale of the probe was 1,000 mS/m. This caused a calibration error in the data collected. To correct this error, a multiplier of 0.7686 was applied to all of the affected data.

Accuracy of data collected during the 2000 water year may have been affected by the firmware or software update in December 1999. The data collected using this new software and firmware was considerably offset relative to previous electromagnetic induction logs. In addition, the final values were truncated at the decimal point, whereas those collected prior to the update were recorded to the thousandths decimal place. These final values are the result of a multiplication of the raw data from the instrument and a calibration factor. It is unknown whether or not the raw values were truncated at the decimal point. If so, the resulting error could be on the order of 5 mS/m too low. Because the offset data from the 2000 water year are often 5 mS/m lower than the data from other years, truncation of the raw data probably is the explanation.

Data Presentation

Records of conductivity are published individually on the page immediately following the well manuscript. Data for conductivity are identified by well number. Each record consists of a single graph representing conductivity, a lithologic log, and a brief explanation.

RECORDS OF GROUND-WATER QUALITY

Records of ground-water quality in this report differ from other types of records in that, for the salinity network sites, they consist of a limited set of measurements for the water year. The quality of ground water ordinarily changes slowly; therefore, for most general purposes, a small number of samples except for a few samples taken seasonally during the year, is sufficient. Frequent measurement of the same constituents is not necessary unless one is concerned with a particular problem, such as monitoring for saltwater intrusion. In the special cases where the quality of ground water may change more rapidly, more frequent measurements are made to identify the nature of the changes.

Data Collection and Computation

The ground-water-quality data in this report were obtained mostly as a part of the Florida Integrated Science Center, Center for Water and Restoration Studies salinity network or as a part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some wells within a county but not for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality in the report area. Such a view can be attained only by considering records for this year in context with similar records obtained for these and other counties in earlier years.

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey National Field Manual for the collection of Water-Quality Data and the "Laboratory Measurements" sections in this data report and are also described in the TWRIs, which may be accessed from *http://water.usgs.gov/pubs/twri/*. Procedures for on-site measurements and for collecting, treating, and shipping samples are given in TWRI, Book 1, Chapter D2; Book 5, Chapters A1, A3, and A4 and Book 9, Chapters A1-A6. Also, detailed information on collecting, treating, and shipping samples may be obtained from the FISC-WRS office. (See address that is shown on the back of the title page of this report.)

The values reported in this report represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. These methods are consistent with ASTM standards and generally follow ISO standards. All samples were obtained by trained personnel. The wells sampled were pumped long enough to assure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings.

Laboratory Measurements

Analysis for sulfide and measurement of alkalinity, pH, water temperature, specific conductance, and dissolved oxygen are performed on site. All other sample analyses are performed at the USGS laboratory in Lakewood, Colorado, unless otherwise noted. Methods used by the USGS laboratory are given in TWRI, Book 1, Chapter D2; and Book 5, Chapters A1, A3, and A4, which may be accessed from *http://water.usgs.gov/pubs/twri/*.

Data Presentation

The records of ground-water quality are published immediately following the ground-water level records of each county. Data for quality of ground water are identified by well number. The prime identification number for wells sampled is the 15-digit number derived from the latitude-longitude locations. The Remark Codes listed for surface-water-quality records are also applicable to ground-water-quality records.

ACCESS TO USGS WATER DATA

The USGS provides near real-time stage and discharge data for many of the gaging stations equipped with the necessary telemetry and historic daily mean and peak-flow discharge data for most current or discontinued gaging stations through the World Wide Web (WWW). These data may be accessed from *http://water.usgs.gov*.

Water-quality data and ground-water data also are available through the WWW. In addition, data can be provided in various machine-readable formats on various media. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each Water Discipline Office (See address that is shown on the back of the title page of this report.)

DEFINITION OF TERMS

Specialized technical terms related to streamflow, water-quality, and other hydrologic data, as used in this report, may be accessed from *http://water.usgs.gov/ADR_Defs_2004.pdf*. Terms such as algae, water level, and precipitation are used in their common everyday meanings, definitions of which are given in standard dictionaries. Not all terms defined in this alphabetical list apply to every State. See also table for converting English units to International System (SI) Units. Other glossaries that also define water-related terms are accessible from *http://water.usgs.gov/glossaries.html*.

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Broward County

VOLUME 2B: SOUTH FLORIDA

Key to site locations on figure # 12

BROWARD COUNTY

Index Number	Site Number	Well Name	Page Number	Index Number	Site Number	Well Name	Page Number
1	260010080085001	F 291	46	32	261147080114501	G 2395	93
2	260545080082001	G 561	73	33	255919080091202	G 2409	42
3	260515080202101	G 617	68	34	255919080091203	G 2410	43
4	261434080071901	G 853	97	35	260041080093101	G 2425	52
5	261100080140401	G 1212	89	36	260041080093102	G 2426	53
6	261734080111301	G 1213	106	37	260120080093401	G 2441	57
7	260752080084701	G 1220	81	38	261446080062801	G 2445	99
8	260458080134801	G 1221	67	39	255936080091701	G 2477	44
9	260219080141101	G 1223	59	40	255936080091702	G 2478	45
10	260032080135701	G 1225	48	41	260155080092002	G 2612	58
11	260053080105701	G 1226	54	42	261724080054603	G 2694	105
12	261122080083401	G 1232	90	43	261831080151301	G 2739	108
13	261903080065601	G 1260	109	44	261643080055901	G 2752	103
14	261708080090801	G 1315	104	45	260241080112701	G 2785	60
15	261441080111301	G 1316	98	46	260012080100001	G 2807	47
16	261143080082901	G 1340	92	47	261938080101001	G 2852	110
17	255916080090401	G 1435	40	48	261641080064801	G 2866	102
18	255918080091801	G 1473	41	49	261740080054101	G 2893	107
19	255807080224301	G 1636	36	50	261304080072501	G 2896	94
20	261534080165801	G 2031	101	51	261030080083301	G 2897	87
21	260821080185101	G 2032	84	52	260920080092201	G 2898	85
22	261141080163401	G 2033	91	53	260804080092701	G 2899	82
23	260653080184901	G 2034	77	54	260325080113901	G 2900	62
24	260040080104401	G 2035	51	55	260737080103302	G 2901R	79
25	260534080112101	G 2129	72	56	260638080104801	G 2902	75
26	260530080112101	G 2130	69	57	255843080090901	G 2903	37
27	261501080060701	G 2147	100	58	260534080110801	G 2904	70
28	261403080070801	G 2149	96	59	260101080091501	G 2906	55
29	260342080115902	G 2264	66	60	260326080120301	G 2921	64
30	255910080085802	G 2294	39	61	260039080083402	G 2948	49
31	260547080105801	G 2352	74	62	260657080122301	S 329	78

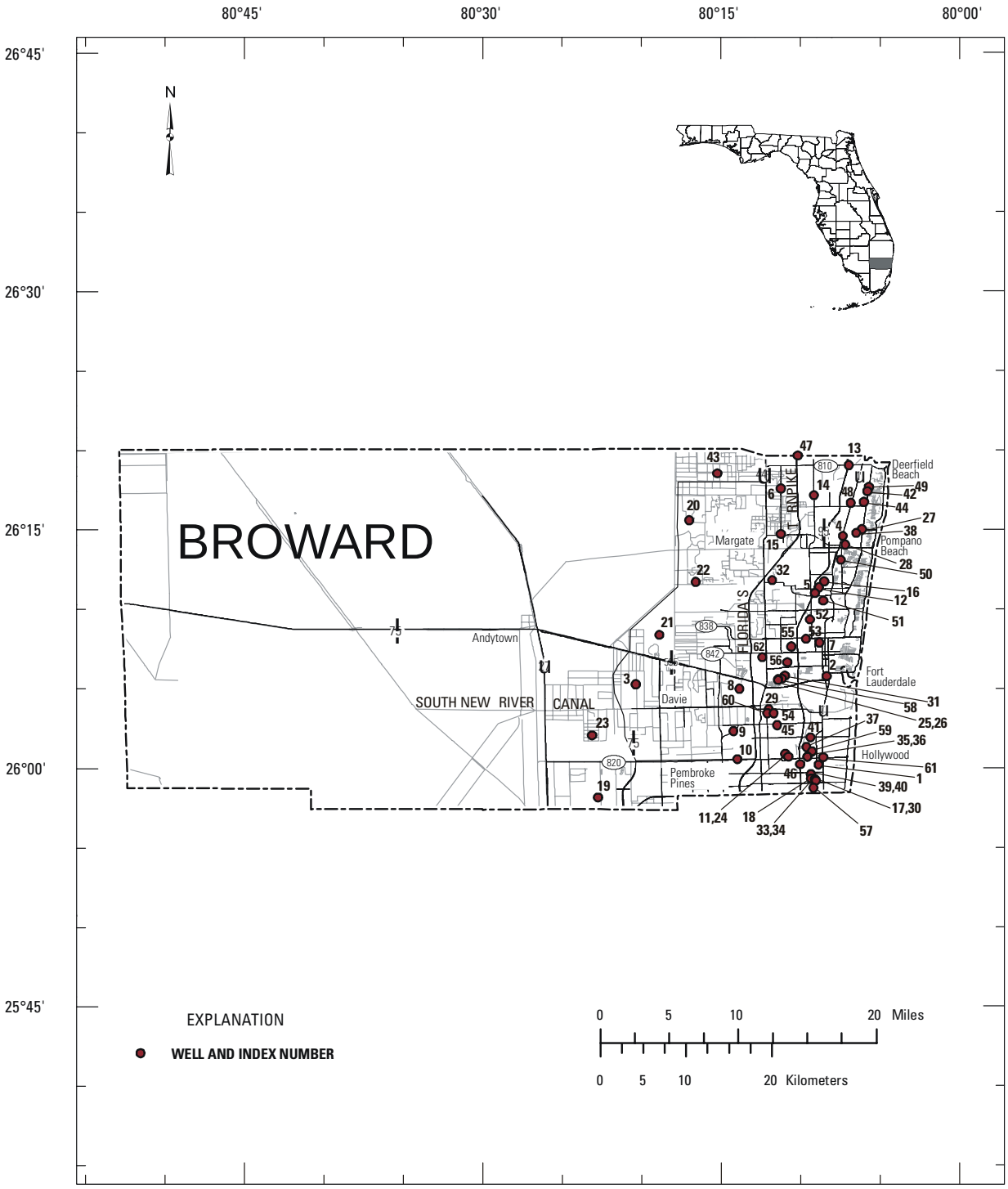


Figure 12. Location of wells in Broward County

BROWARD COUNTY

WELL NUMBER.--255807080224301. Local Number G 1636. USGS Observation Well in Miramar, FL.

LOCATION.--Lat 25°58'07", long 80°22'43", in SW 1/4 NE 1/4 NE 1/4 sec.31, T.51 S., R.40 E., Hydrologic Unit 03090202, at radio towers west of SW 172nd Avenue, 3 mi south of State Road 820, 4 mi west of Flamingo Road, and 5.8 mi northwest of Carol City.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 24 ft, cased to 24 ft.

REVISED RECORDS.--WDR FL-85-2B: 1979.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 9.17 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 6.0 ft above NGVD. (Corrected).

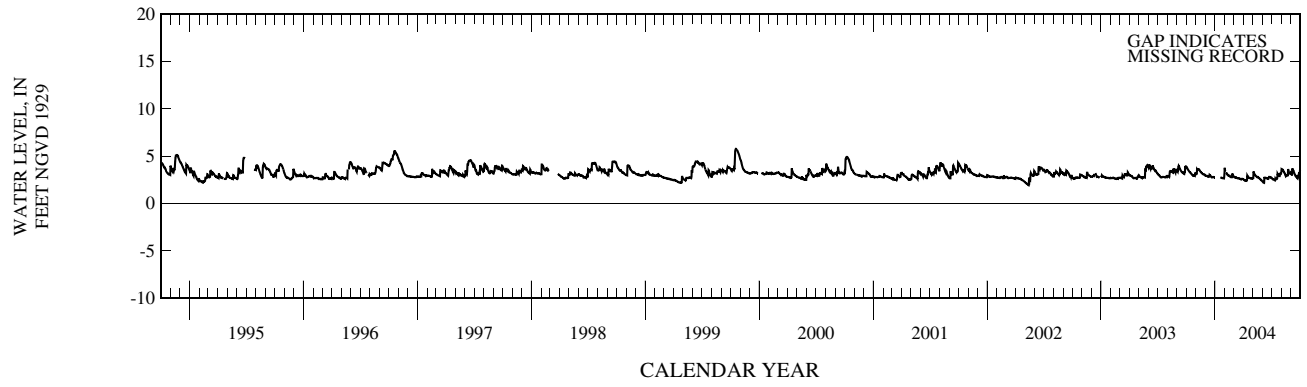
REMARKS.--Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--September 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 5.77 ft NGVD, Oct. 18, 1999; lowest, 1.79 ft NGVD, May 23, 1985 and June 2, 1992.

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	3.67	3.58	2.94	---	3.26	2.78	2.44	3.15	2.22	2.57	3.53	3.71
10	3.39	3.62	2.91	---	3.05	2.73	2.43	2.94	2.70	2.47	3.25	3.31
15	3.21	3.37	3.01	---	2.96	2.68	2.78	2.78	2.69	2.60	2.89	2.90
20	3.04	3.20	2.79	2.73	2.80	2.63	2.73	2.72	2.62	3.09	2.98	2.68
25	2.92	3.09	2.79	2.69	3.10	2.59	2.67	2.54	2.80	2.90	3.22	3.00
EOM	3.15	2.99	2.79	3.10	2.89	2.58	2.65	2.37	2.71	3.23	3.20	3.43
MAX	3.89	3.65	3.03	---	---	2.84	2.95	3.40	2.82	3.23	3.64	3.71



BROWARD COUNTY—Continued

WELL NUMBER.--255843080090901. Local Number G 2903. USGS Observation Well near Hallandale, FL.

LOCATION.--Lat 25°58'44", long 80°09'09", in SE $^1/_4$ NE $^1/_4$ SE $^1/_4$ sec.28, T.51 S., R.42 E., Hydrologic Unit 03090202, 44 ft south of transmit lift station on the east side of SW 4th Avenue and north of SE 6th Street. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 2 in., depth 155.5 ft, cased to 145.5 ft, screened 145.5 to 155.5 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape. See REMARKS.

DATUM.--Measuring point: Top of casing, 5.06 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 5.1 ft above NGVD.

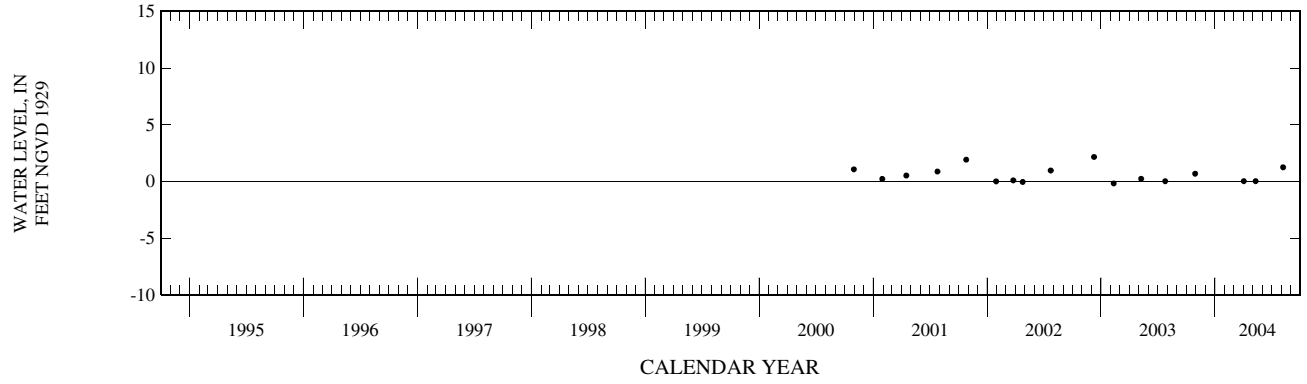
REMARKS.--Well is also used for salinity monitoring, including an annual induction log. Induction logs are used to assess the movement of the fresh-water/salt-water interface in ground water. See EXPLANATION OF THE RECORDS SECTION, RECORDS OF BULK CONDUCTIVITY in the front of the book. A calibration error was found to have affected some of the historical bulk conductivity logs collected by an induction logger. Bulk conductivity logs prior to the 2002 water year had been calibrated to a standard of 1,301 mS/m. For these calibrations an internal setting limited the probe response to 1,000 mS/m. Data for the affected years was corrected by applying a 0.7686 multiplier. Quarterly water-level measurements began in October 2000.

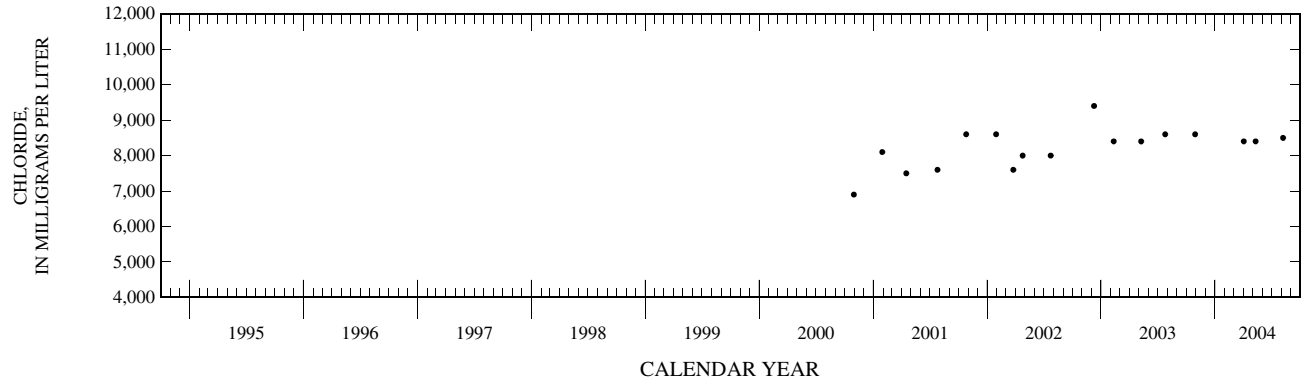
PERIOD OF RECORD.--April 2000 to current year. See REMARKS.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.17 ft NGVD, Dec. 9, 2002; lowest, 0.16 ft below NGVD, Feb. 10, 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
29...	1500	.70	24,100	8,600
APR				
02...	0934	.04	24,000	8,400
MAY				
10...	1058	.04	23,900	8,400
AUG				
06...	0855	1.26	23,700	8,500



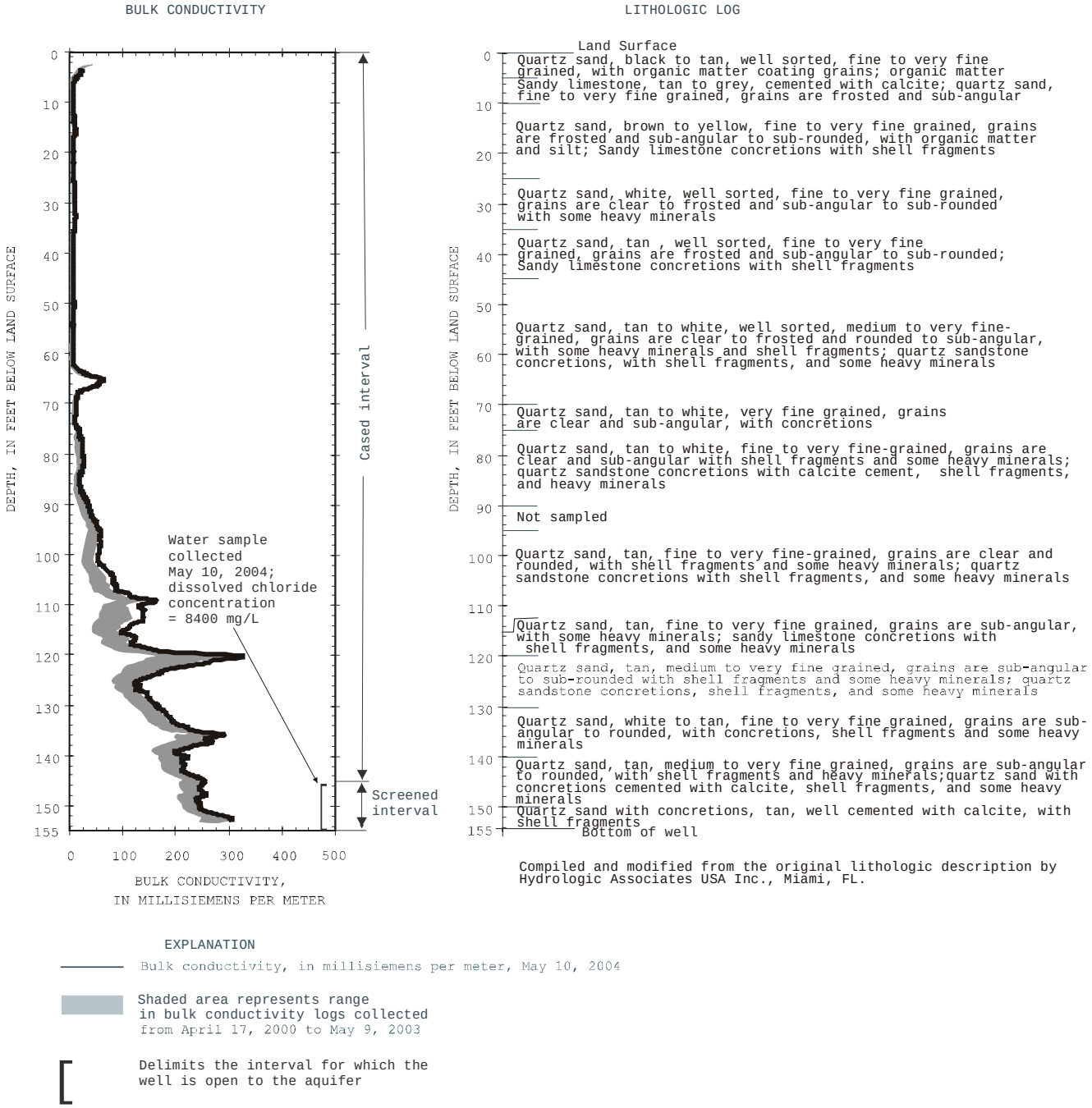


BROWARD COUNTY—Continued

WELL NUMBER.--255843080090901. Local Number G 2903. USGS Observation Well near Hallandale, FL.-Continued

.

255843080090901 G-2903



BROWARD COUNTY—Continued

WELL NUMBER.--255910080085802. Local Number G 2294. USGS Observation Well near Hallandale, FL.

LOCATION.--Lat 25°59'11", long 80°08'59", in SW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.27, T.51 S., R.42 E., Hydrologic Unit 03090202, at intersection, 19 ft north of NW 1st Street and 10 ft west of NW 1st Avenue.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 139 ft, cased to 135 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 9.95 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 9.4 ft above NGVD.

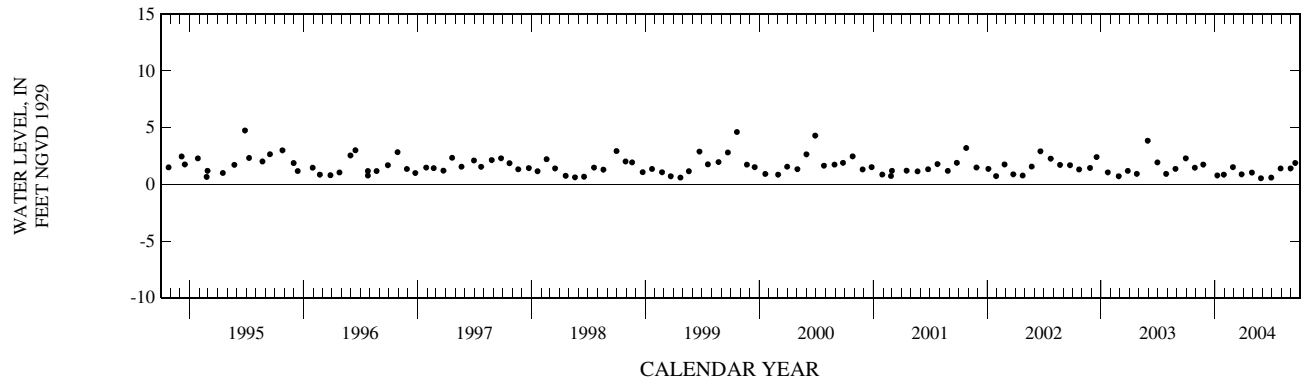
REMARKS.--Well also used for salinity monitoring.

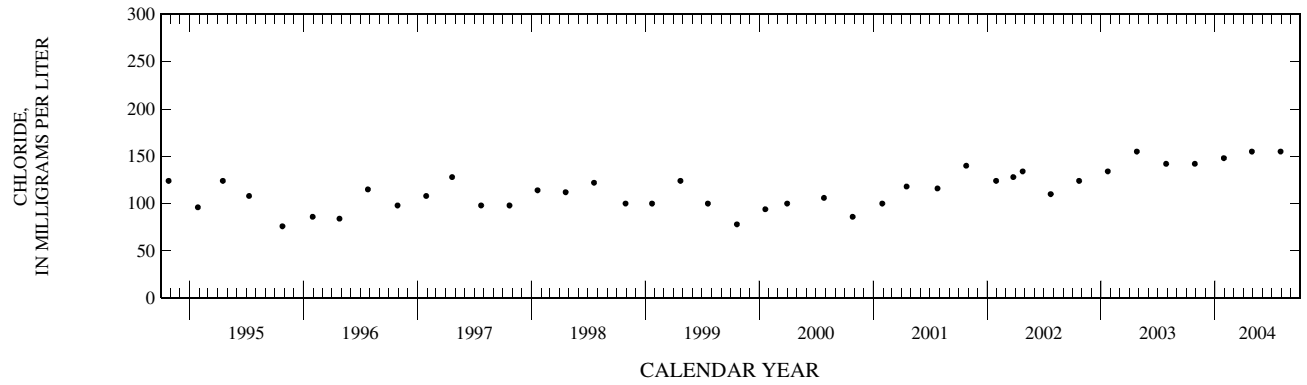
PERIOD OF RECORD.--July 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.74 ft NGVD, June 27, 1995; lowest, 0.54 ft below NGVD, Feb. 24, 1992.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
28...	1039	1.46	767	142
NOV				
24...	1020	1.74	--	--
JAN				
08...	1040	.78	--	--
29...	1047	.85	777	148
FEB				
27...	1043	1.51	--	--
MAR				
26...	1053	.88	--	--
APR				
28...	1018	1.03	812	155
MAY				
27...	1114	.53	--	--
JUN				
29...	1118	.59	--	--
JUL				
29...	1102	1.39	857	155
AUG				
30...	0946	1.40	--	--
SEP				
14...	0953	1.88	--	--





BROWARD COUNTY—Continued

WELL NUMBER.--255916080090401. Local Number G 1435. USGS Observation Well near Hallandale, FL.

LOCATION.--Lat 25°59'16", long 80°09'04", in NE ¼ NE ¼ NE ¼ sec.28, T.51 S., R.42 E., Hydrologic Unit 03090202, 14.5 ft north of NW 2nd Street centerline and 55 ft east of NW 3rd Avenue centerline.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 204 ft, cased to 196 ft.

REVISED RECORDS.--WDR FL-99-2B: 1998.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 11.68 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 11.8 ft above NGVD.

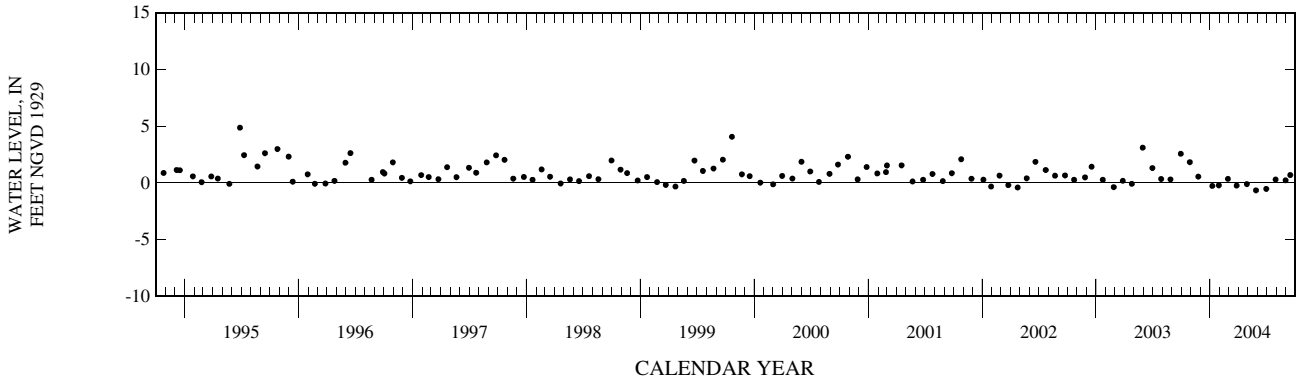
REMARKS.--Well also used since 1969 for salinity monitoring. Previously published figures of water level elevation, as feet NGVD for the 1998 water year are incorrect. Corrected records are available in the files of the U.S. Geological Survey.

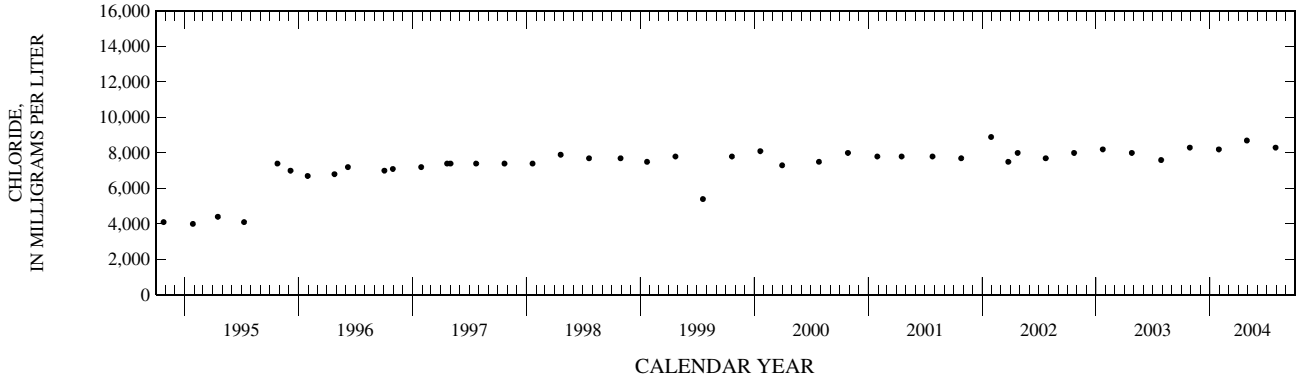
PERIOD OF RECORD.--October 1979, July 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.80 ft NGVD, Oct. 4, 1979; lowest, 0.65 ft below NGVD, May 27, 2004.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
28...	1023	1.83	23,200	8,300
NOV				
24...	1010	.56	--	--
JAN				
08...	1028	-.26	--	--
29...	1019	-.21	22,900	8,200
FEB				
27...	1037	.36	--	--
MAR				
26...	1043	-.23	--	--
APR				
28...	0950	-.10	23,500	8,700
MAY				
27...	1106	-.65	--	--
JUN				
29...	1109	-.52	--	--
JUL				
29...	1035	.30	23,800	8,300
AUG				
30...	0940	.23	--	--
SEP				
14...	0945	.70	--	--





BROWARD COUNTY—Continued

WELL NUMBER.--255918080091801. Local Number G 1473. USGS Observation Well in Hallandale, FL.

LOCATION.--Lat 25°59'18", long 80°09'18", in NE $^1/_4$ NW $^1/_4$ NE $^1/_4$ sec.28, T.51 S., R.42 E., Hydrologic Unit 03090202, near NW 6th Avenue and 2nd Street. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 8 in., depth 132 ft cased to 126 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 14.58 ft above National Geodetic Vertical Datum of 1929. From October 1977 to October 1980, measuring point was considered to be 14.85 ft above NGVD. Prior to October 1977, measuring point was considered to be 13.63 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 12.1 ft above National Geodetic Vertical Datum of 1929. (Corrected).

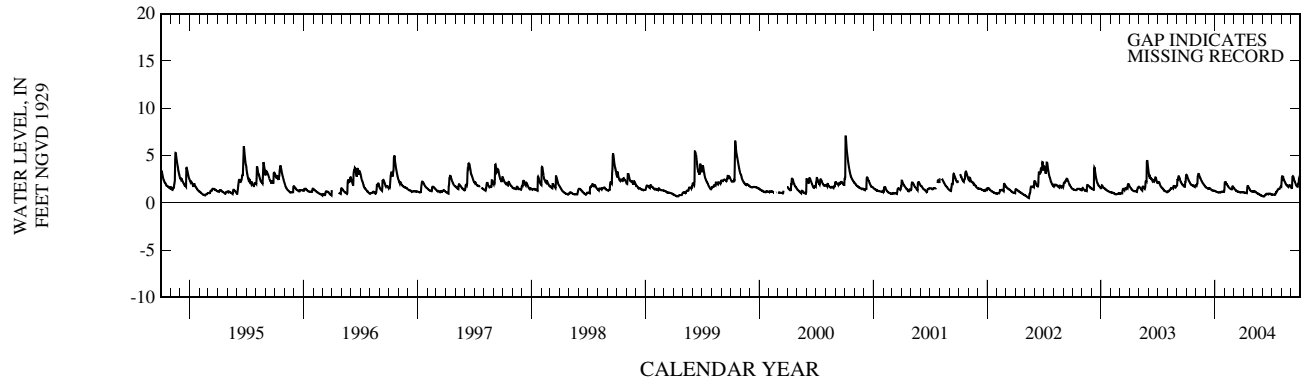
REMARKS.--Well also used for salinity monitoring. Salinity monitoring began in April 25, 1980. The figures of water level as elevation, in feet NGVD, prior to October 1, 1980, are in error. Corrected records are in files of the U.S. Geological Survey. Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey.

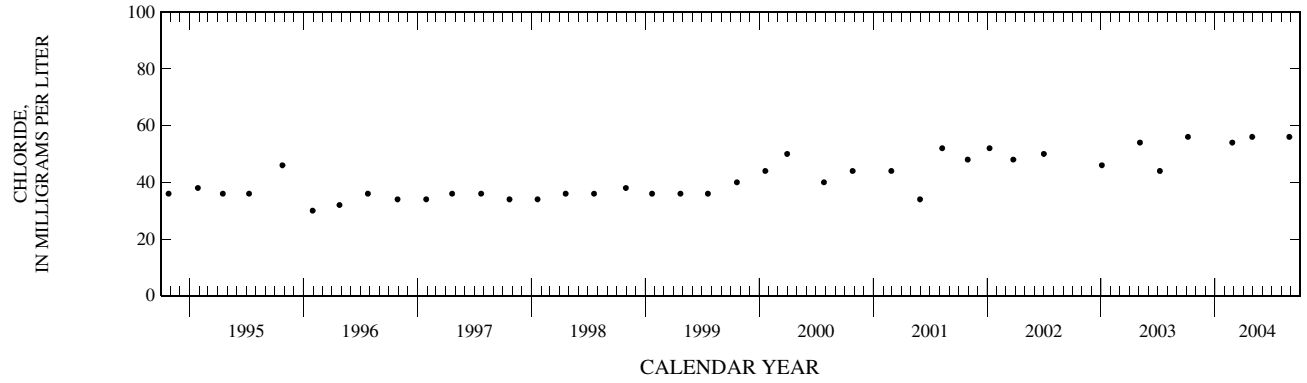
PERIOD OF RECORD.--November 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.02 ft NGVD, Oct. 3, 4, 2000; lowest, 0.21 ft NGVD, Apr. 19, 21, 22, 1971.

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	2.71	2.03	1.59	1.17	2.13	1.38	1.08	1.24	0.71	0.87	2.76	2.75
10	2.27	3.01	1.54	1.11	1.83	1.25	1.04	1.15	0.85	0.87	2.32	2.51
15	1.98	2.64	1.53	1.09	1.59	1.18	1.77	1.01	0.97	1.11	2.00	2.03
20	1.88	2.26	1.39	1.14	1.47	1.13	1.49	0.91	0.90	1.38	1.84	1.73
25	1.74	1.96	1.30	1.19	1.67	1.12	1.24	0.83	0.98	1.49	1.84	2.17
EOM	1.84	1.74	1.27	1.44	1.62	1.12	1.23	0.73	0.87	1.69	1.67	2.70
MAX	2.96	3.06	1.70	1.44	2.20	1.57	1.77	1.24	0.98	1.73	2.79	2.81





BROWARD COUNTY—Continued

WELL NUMBER.--255919080091202. Local Number G 2409. USGS Observation Well in Hallandale, FL.

LOCATION.--Lat 25°59'19", long 80°09'12", in NW $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.28, T.51 S., R.42 E., Hydrologic Unit 03090202, 1 ft east of G-2408, 11 ft east of northwest corner of building on southeast corner of NW 3rd Street and NW 5th Avenue.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 84 ft, cased to 83 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 10.58 ft above National Geodetic Vertical Datum of 1929. Prior to October 1996, measuring point was incorrectly considered to be 10.64 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 10.9 ft above NGVD.

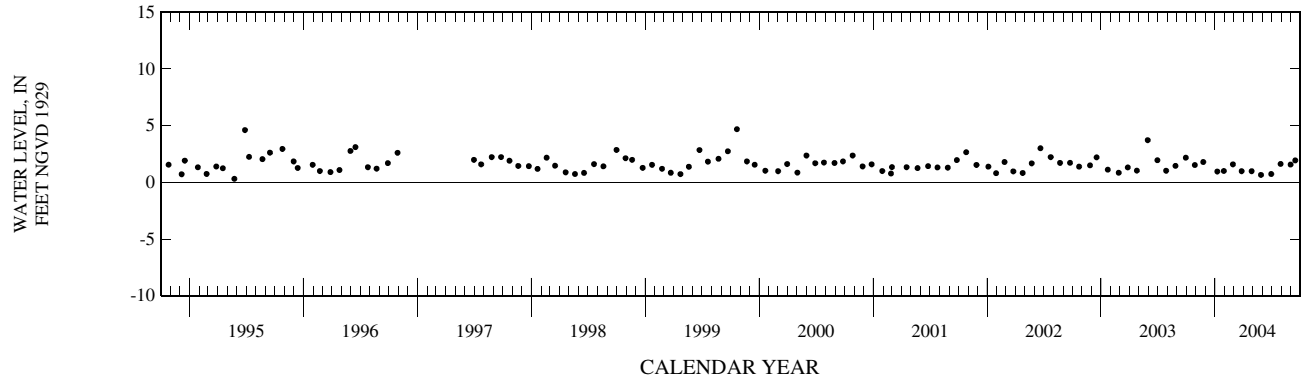
REMARKS.--Well also used for salinity monitoring. The figures of water levels as elevation, in feet NGVD, prior to October 1996 are in error. Corrected records are in files of the U.S. Geological Survey. See DATUM.

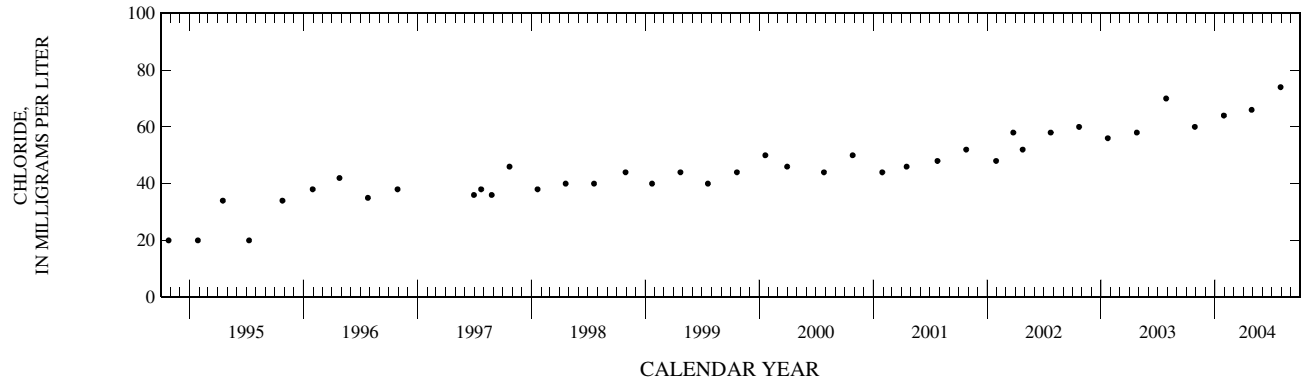
PERIOD OF RECORD.--September 1985 to February 1986 (weekly), March 1986 to September 1990 (intermittent), October 1990 to October 1996, June 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.68 ft NGVD, Oct. 21, 1999; lowest, 0.31 ft NGVD, May 24, 1995.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
28...	0937	1.52	572	60.0
NOV				
24...	0930	1.79	--	--
JAN				
08...	0947	.95	--	--
29...	0941	1.00	577	64.0
FEB				
27...	1009	1.58	--	--
MAR				
26...	1016	.98	--	--
APR				
27...	0925	.98	609	66.0
MAY				
27...	1030	.65	--	--
JUN				
29...	1017	.73	--	--
JUL				
29...	0956	1.62	609	74.0
AUG				
30...	0846	1.56	--	--
SEP				
14...	0907	1.93	--	--





BROWARD COUNTY—Continued

WELL NUMBER.--255919080091203. Local Number G 2410. USGS Observation Well near Hallandale, FL.

LOCATION.--Lat 25°59'19", long 80°09'13", in NW $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.28, T.51 S., R.42 E., Hydrologic Unit 03090202, 2 ft north of sidewalk and 1 ft west of G-2408, 9 ft east of northwest corner of building on southeast corner of NW 3rd Street and NW 5th Avenue.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2.25 in., depth 206 ft, cased to 205 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 10.55 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 10.8 ft above NGVD.

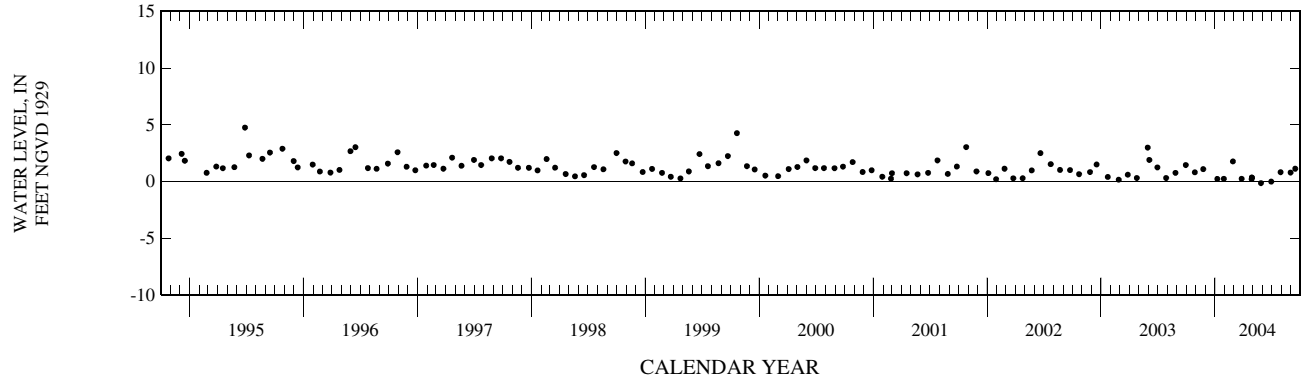
REMARKS.--Well also used for salinity monitoring. Salinity monitoring began in June 1985.

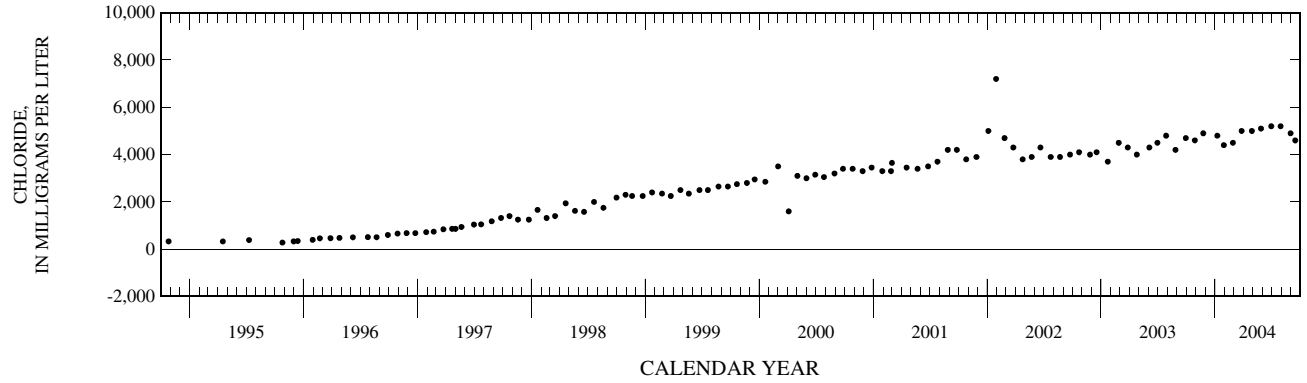
PERIOD OF RECORD.--September 1985 to February 1986 (weekly), March 1986 to November 1986 (intermittent), December 1986 to current year. See REMARKS.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.76 ft NGVD, June 27, 1995; lowest, 0.13 ft below NGVD, May 27, 2004.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
28...	0941	.82	11,700	4,600
NOV				
24...	0934	1.10	12,300	4,900
JAN				
08...	0950	.24	11,900	4,800
29...	0943	.25	12,000	4,400
FEB				
27...	1013	1.78	12,400	4,500
MAR				
26...	1018	.25	12,600	5,000
APR				
27...	0928	.23	--	--
28...	0910	.35	12,700	5,000
MAY				
27...	1033	-.13	13,200	5,100
JUN				
29...	1025	.00	13,400	5,200
JUL				
29...	0958	.83	13,000	5,200
AUG				
30...	0850	.80	13,300	4,900
SEP				
14...	0909	1.14	13,200	4,600





BROWARD COUNTY—Continued

WELL NUMBER.--255936080091701. Local Number G 2477. USGS Observation Well near Hallandale, FL.

LOCATION.--Lat 25°59'36", long 80°09'19", in SE ¼ NW ¼ SE ¼ sec.21, T.51 S., R.42 E., Hydrologic Unit 03090202, at northwest corner of intersection of NW 6th Avenue and NW 8th Street, 82 ft west of NW 6th Avenue and 11 ft north of NW 8th Street.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 80 ft, cased to 75 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 12.69 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 12.9 ft above NGVD.

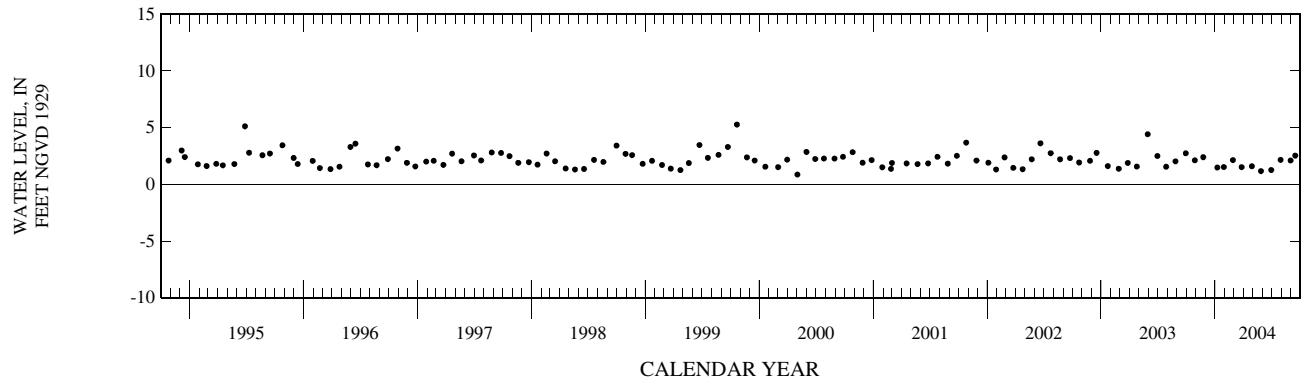
REMARKS.--Well also used for salinity monitoring.

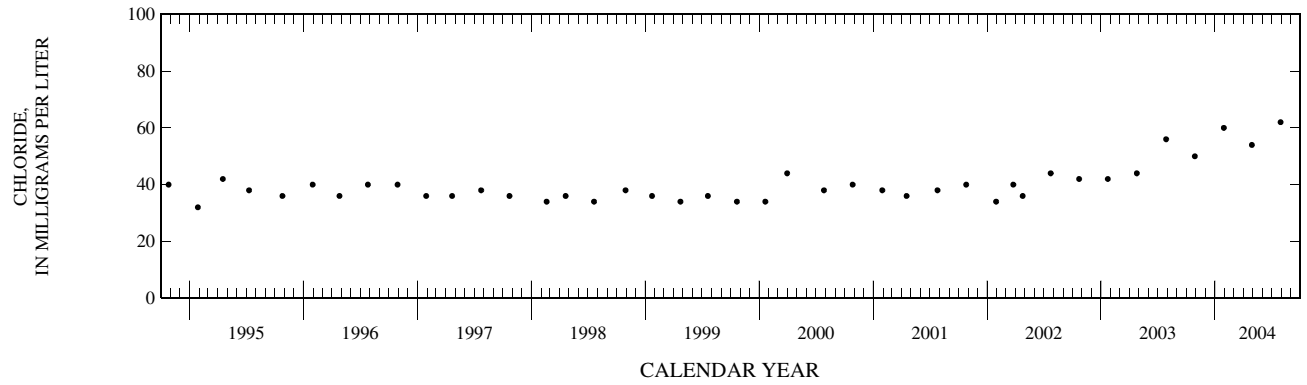
PERIOD OF RECORD.--July 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.26 ft NGVD, Oct. 21, 1999; lowest, 0.86 ft NGVD, May 2, 2000.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
28...	1109	2.11	526	50.0
NOV				
24...	1036	2.39	--	--
JAN				
08...	1053	1.48	--	--
29...	1117	1.52	526	60.0
FEB				
27...	1054	2.13	--	--
MAR				
26...	1103	1.51	--	--
APR				
28...	1046	1.59	544	54.0
MAY				
27...	1124	1.16	--	--
JUN				
29...	1129	1.26	--	--
JUL				
29...	1130	2.15	543	62.0
AUG				
30...	0954	2.10	--	--
SEP				
14...	1001	2.53	--	--





BROWARD COUNTY—Continued

WELL NUMBER.--255936080091702. Local Number G 2478. USGS Observation Well near Hallandale, FL.

LOCATION.--Lat 25°59'36", long 80°09'19", in SE ¼ NW ¼ SE ¼ sec.21, T.51 S., R.42 E., Hydrologic Unit 03090202, at northwest corner of intersection of NW 6th Avenue and NW 8th Street, 60 ft west of NW 6th Avenue and 11 ft north of NW 8th Street.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 200 ft, cased to 195 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 12.48 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 12.8 ft above NGVD.

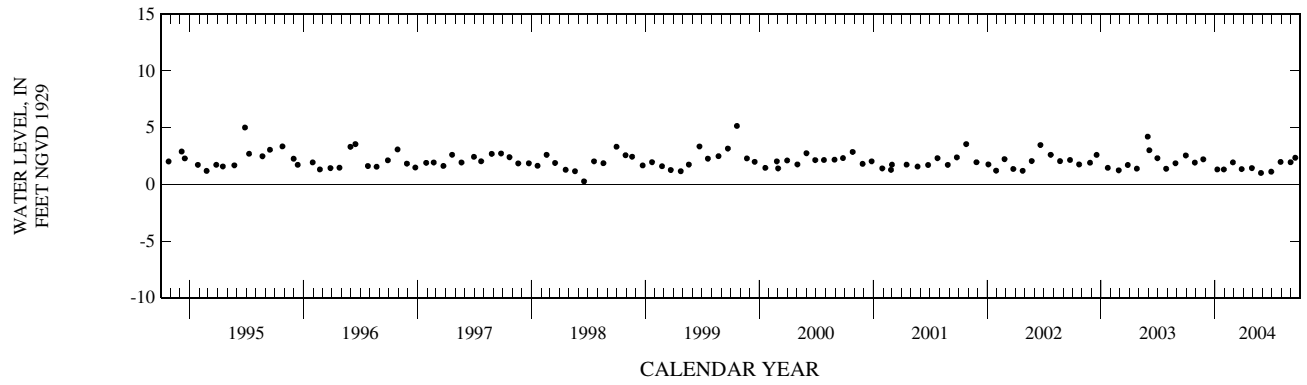
REMARKS.--Well also used for salinity monitoring.

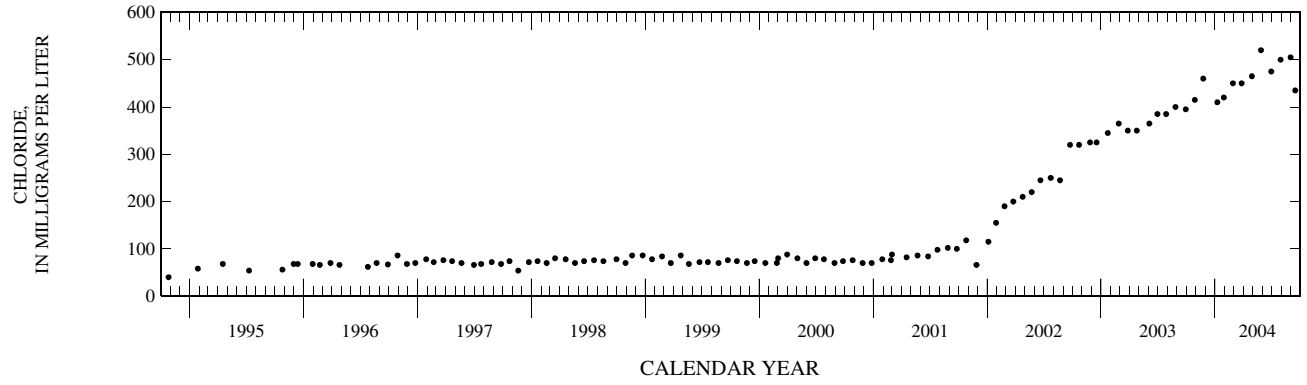
PERIOD OF RECORD.--August 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.14 ft NGVD, Oct. 21, 1999; lowest, 0.26 ft NGVD, June 18, 1998.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
28...	1112	1.91	1,530	415
NOV				
24...	1038	2.20	1,580	460
JAN				
08...	1055	1.31	1,540	410
29...	1121	1.31	1,530	420
FEB				
27...	1057	1.93	1,580	450
MAR				
26...	1109	1.34	1,610	450
APR				
28...	1048	1.43	1,630	465
MAY				
27...	1128	1.00	1,720	520
JUN				
29...	1131	1.11	1,750	475
JUL				
29...	1133	1.97	1,670	500
AUG				
30...	0958	1.94	1,780	505
SEP				
14...	1005	2.34	1,740	435





BROWARD COUNTY-Continued

WELL NUMBER.--260010080085001. Local Number F 291. USGS Observation Well in Hollywood, FL.

LOCATION.--Lat 26°00'10", long 80°08'50", in NE $^1/_4$ NW $^1/_4$ sec.22, T.51 S., R.42 E., Hydrologic Unit 03090202, at South 20th Avenue and Dewey Street, 1.1 mi west of U.S. Highway 1. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, water-table well, diameter 6 in., depth 107 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of screw, 11.10 ft above National Geodetic Vertical Datum of 1929. From January 20, 1998 to June 20, 2000, measuring point was top of base, 11.08 ft above NGVD. From October 1991 to January 19, 1998, measuring point was top of casing, 11.06 ft above NGVD. From October 1985 to September 1991, top of base was incorrectly considered to be 11.18 ft above NGVD. From January 1948 to September 1985, measuring point was top of casing, 11.06 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 9.2 ft above NGVD.

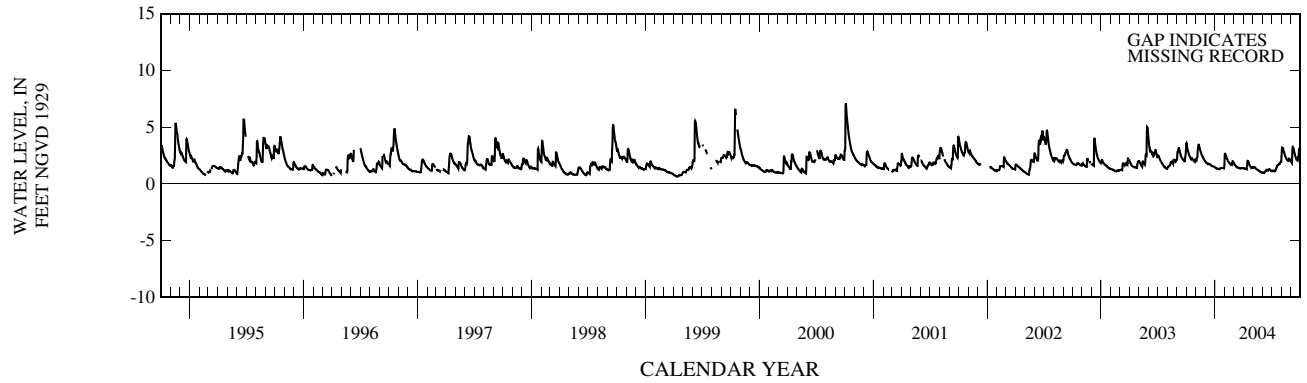
REMARKS.--Records of water levels prior to January 1957 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--January 1948 to current year. (Corrected).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.26 ft NGVD, Oct. 5, 1948; lowest, 0.16 ft NGVD, July 2, 1952.

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	3.04	2.33	1.84	1.37	2.47	1.64	1.35	1.51	1.00	1.17	3.12	3.08
10	2.55	3.44	1.79	1.33	2.11	1.50	1.33	1.37	1.14	1.15	2.68	2.90
15	2.23	2.93	1.75	1.30	1.86	1.43	2.04	1.25	1.25	1.36	2.33	2.38
20	2.19	2.51	1.62	1.41	1.72	1.38	1.72	1.17	1.18	1.67	2.10	2.10
25	2.02	2.24	1.56	1.41	1.90	1.38	1.45	1.08	1.27	1.77	2.23	2.50
EOM	2.13	2.00	1.47	1.73	1.89	1.38	1.47	1.00	1.12	1.95	1.97	3.07
MAX	3.59	3.45	1.97	1.73	2.66	1.84	2.04	1.51	1.30	1.95	3.19	3.25



BROWARD COUNTY—Continued

WELL NUMBER.--260012080100001. Local Number G 2807. USGS Observation Well in Hollywood, FL.

LOCATION.--Lat 26°00'12", long 80°10'00" in SW ¼ SW ¼ SW ¼ sec.16, T.51 S., R.42 E., Hydrologic Unit 03090202, 30 ft east of west end of Washington Street, 5 ft east of G-2808.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, water-table well, diameter 2 in., depth 200 ft, cased to 196 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 8.63 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 8.6 ft above NGVD.

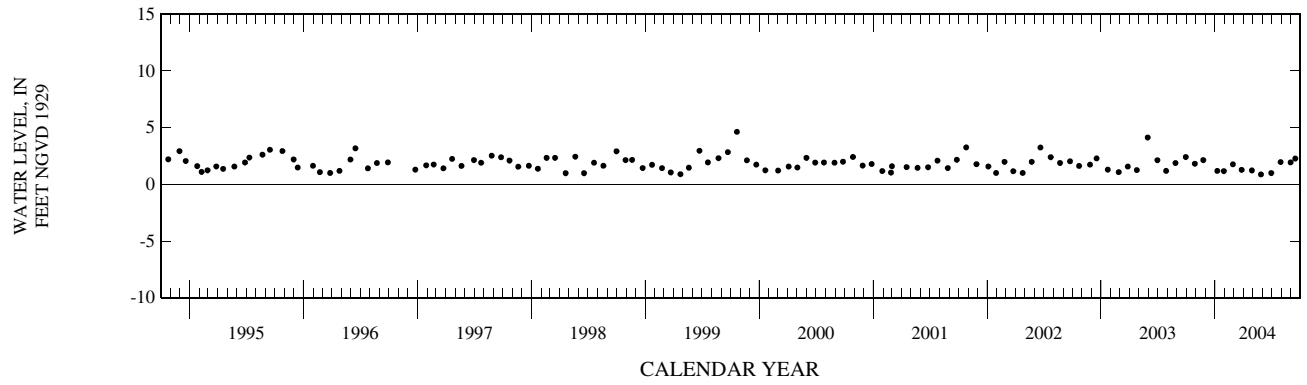
REMARKS.--Well is also used for salinity monitoring.

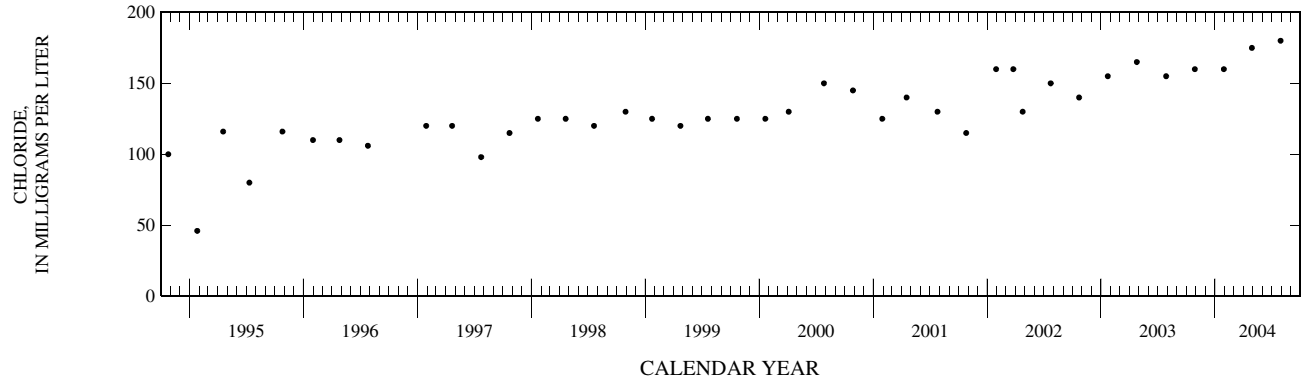
PERIOD OF RECORD.--January 1994 to July 1994 (intermittent), October 1994 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.62 ft NGVD, Oct. 21, 1999; lowest, 0.87 ft NGVD, May 27, 2004.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
28...	1210	1.81	879	160
NOV				
24...	1106	2.13	--	--
JAN				
08...	1140	1.18	--	--
29...	1226	1.16	866	160
FEB				
27...	1123	1.76	--	--
MAR				
26...	1149	1.27	--	--
APR				
28...	1343	1.22	887	175
MAY				
27...	1205	.87	--	--
JUN				
29...	1201	.99	--	--
JUL				
29...	1229	1.96	818	180
AUG				
30...	1029	1.93	--	--
SEP				
14...	1036	2.27	--	--





BROWARD COUNTY—Continued

WELL NUMBER.--260032080135701. Local Number G 1225. USGS Observation Well in Hollywood, FL.

LOCATION.--Lat 26°00'32", long 80°13'57", in NE ¼ NE ¼ SE ¼ sec.15, T.51 S., R.41 E., Hydrologic Unit 03090202, at corner of Hollywood Boulevard and SW 72nd Avenue in Hollywood.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 5 in., depth 20 ft, cased to 11 ft.

REVISED RECORDS.--WDR FL-81-2B: 1980.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 11.66 ft above National Geodetic Vertical Datum of 1929. From October 1992 to January 7, 2004, measuring point was 11.21 ft above NGVD. From June 1982 to October 1992, measuring point was top of base, 11.16 ft above NGVD. From May 1981 to December 1981 measuring point was top of base, 11.70 ft above NGVD. Prior to May 1981, measuring point was top of casing, 11.03 ft above NGVD. (Corrected). See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 9.1 ft above NGVD. (Corrected).

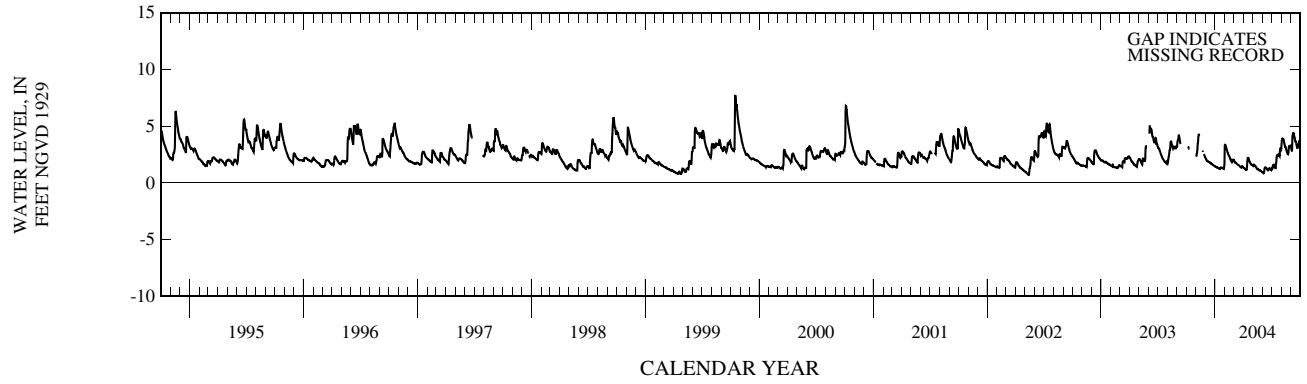
REMARKS.--Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey. In 1982, G-1225 was re-drilled in a location close to the original site. The current well has the same station identifiers as the original and all data are stored as one set of elevations.

PERIOD OF RECORD.--January 1962 to December 1981, (original well), June 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.75 ft NGVD, Oct. 15, 1999; lowest, 0.70 ft NGVD, Apr. 30 and May 1, 1971.

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	---	2.97	2.01	1.39	3.18	1.81	1.26	1.62	0.89	1.59	3.89	4.10
10	2.96	4.25	1.87	1.33	2.68	1.71	1.15	1.46	1.37	1.47	3.45	4.24
15	---	---	1.78	1.26	2.36	1.59	2.21	1.22	1.24	1.81	3.05	3.62
20	---	---	1.70	1.36	2.05	1.48	1.94	1.14	1.12	2.38	2.63	3.12
25	---	---	1.59	1.29	1.88	1.35	1.66	1.08	1.26	2.43	3.24	3.20
EOM	2.39	2.27	1.47	1.65	2.03	1.37	1.56	0.96	1.16	3.03	3.23	3.76
MAX	---	---	2.23	1.65	3.36	2.02	2.21	1.62	1.37	3.09	3.90	4.40



BROWARD COUNTY—Continued

WELL NUMBER.--260039080083402. Local Number G 2948. USGS Observation Well near Hollywood, FL

LOCATION.--Lat 26°00'37", long 80°08'37", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.15, T.51 S., R.42 E., Hydrologic Unit 03090202, in the southwest section of Young Circle at the intersection of Hollywood Boulevard and U.S. Highway 1.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 185 ft, cased to 145 ft, screened 145 to 185 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

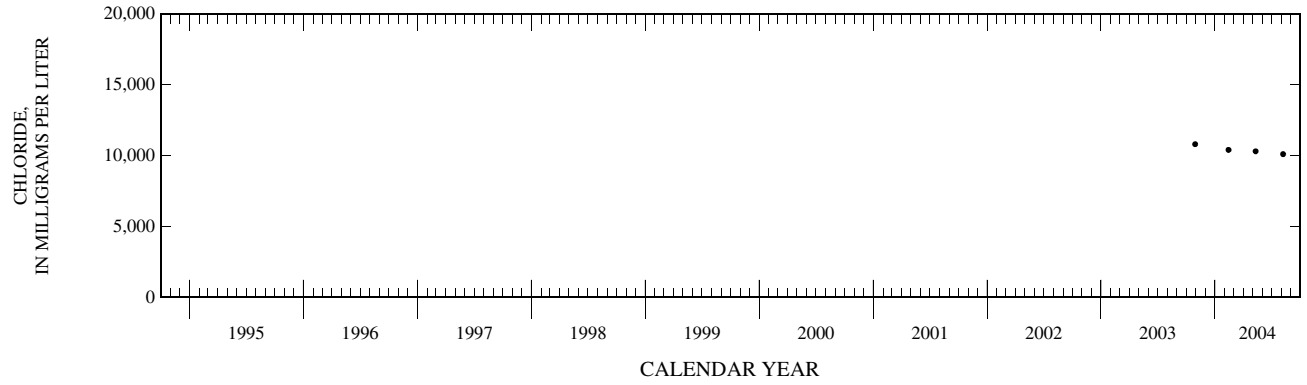
LAND-SURFACE DATUM.--Land surface is approximately 7 ft above NGVD from topographic map.

REMARKS.--Well also used for salinity sampling, including an annual induction log. Induction logs are used to assess the movement of the fresh-water/salt-water interface in ground water. See EXPLANATION OF THE RECORDS SECTION, RECORDS OF BULK CONDUCTIVITY in the front of the book. Monthly water-level measurements began in October 2003. Water-level data are available in the files of the U.S. Geological Survey.

PERIOD OF RECORD.--October 2003 to October 2004. Discontinued.

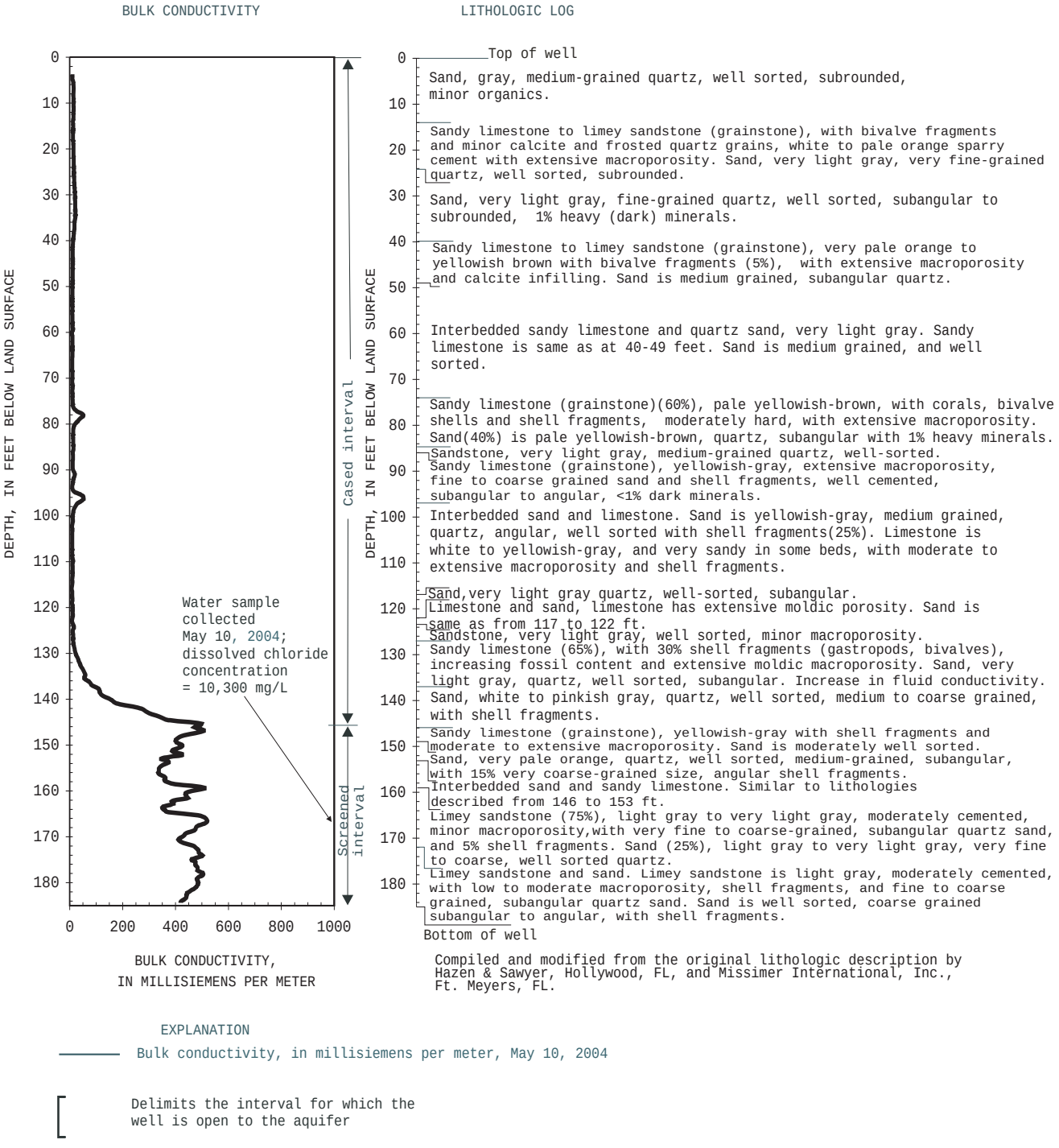
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Chlor-ide, water, fltrd, mg/L (00940)	Date	Time	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Chlor-ide, water, fltrd, mg/L (00940)
OCT				MAY			
29...	1425	27,400	10,800	10...	1242	29,000	10,300
FEB				AUG			
13...	0938	29,500	10,400	06...	0935	28,800	10,100



WELL NUMBER.--260039080083402. Local Number G 2948. USGS Observation Well near Hollywood, FL-Continued

260039080083402 G-2948



BROWARD COUNTY—Continued

WELL NUMBER.--260040080104401. Local Number G 2035. USGS Observation Well in Hollywood, FL.

LOCATION.--Lat 26°00'40", long 80°10'44", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.17, T.51 S., R.42 E., Hydrologic Unit 03090202, at northeast corner of 35th Avenue and Hollywood Boulevard, 0.7 mi west of U.S. Interstate 95.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Driven, observation, water-table well, diameter 4 in., depth 52 ft, cased to 50 ft.

REVISED RECORDS.--WDR FL-85-2B: 1976.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 16.02 ft above National Geodetic Vertical Datum of 1929. From July 1984 to April 2002, measuring point was 16.24 ft above NGVD. From October 1994 to September 1999, measuring point was incorrectly considered to be 16.26 ft above NGVD. From July 1984 to September 1994, measuring point may have incorrectly been considered to be 16.26 ft above NGVD. From July 16, 1981 to July 5, 1984, measuring point was 16.26 ft above NGVD. Prior to July 16, 1981, measuring point was 16.14 ft above NGVD. From October 1973 to September 1975, the measuring point was incorrectly reported to be 15.20 ft above NGVD. (Corrected). See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 13.2 ft above NGVD.

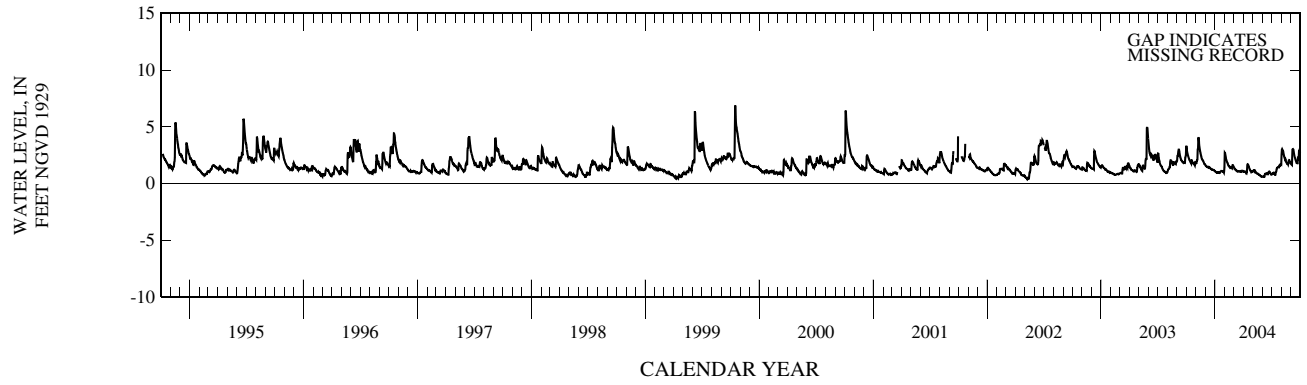
REMARKS.--Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey. Unpublished records of water levels for September 1999 are available in files of the U.S. Geological Survey. Records of water levels as elevation for the period July 1984 to September 1994 may be in error and may require a correction of -0.02 ft. Records of water levels as elevation for the period October 1994 to September 1999 are in error and require a correction of -0.02 ft. Water level records for these period have not been corrected. Station rebuilt April 10, 2002. See DATUM.

PERIOD OF RECORD.--February 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 6.88 ft NGVD, Oct. 15, 1999; lowest, 0.22 ft NGVD, Apr. 25, 1981.

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	2.63	2.09	1.52	1.02	2.20	1.26	1.05	1.19	0.60	0.94	2.82	2.96
10	2.14	3.72	1.49	1.00	1.81	1.16	1.02	1.01	0.86	0.83	2.33	2.62
15	1.85	2.71	1.42	0.99	1.52	1.11	1.68	0.87	0.91	1.06	1.98	2.08
20	1.91	2.16	1.26	1.11	1.45	1.08	1.35	0.80	0.93	1.43	1.77	1.80
25	1.72	1.92	1.22	1.07	1.52	1.05	1.07	0.68	0.98	1.60	2.08	2.29
EOM	1.81	1.67	1.11	1.44	1.52	1.11	1.10	0.63	0.80	1.70	1.77	2.74
MAX	3.26	4.02	1.62	1.44	2.72	1.46	1.69	1.19	1.06	1.72	3.03	3.03



BROWARD COUNTY—Continued

WELL NUMBER.--260041080093101. Local Number G 2425. USGS Observation Well near Hollywood, FL.

LOCATION.--Lat 26°00'40", long 80°09'32", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.16, T.51 S., R.42 E., Hydrologic Unit 03090202, 8 ft south of G-2426, in grassy area 60 ft east of parking space 10 in the northeast parking lot on City Hall Circle, at Hollywood Boulevard and South 26th Avenue.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 203 ft, cased to 198 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 12.88 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 13.2 ft above NGVD.

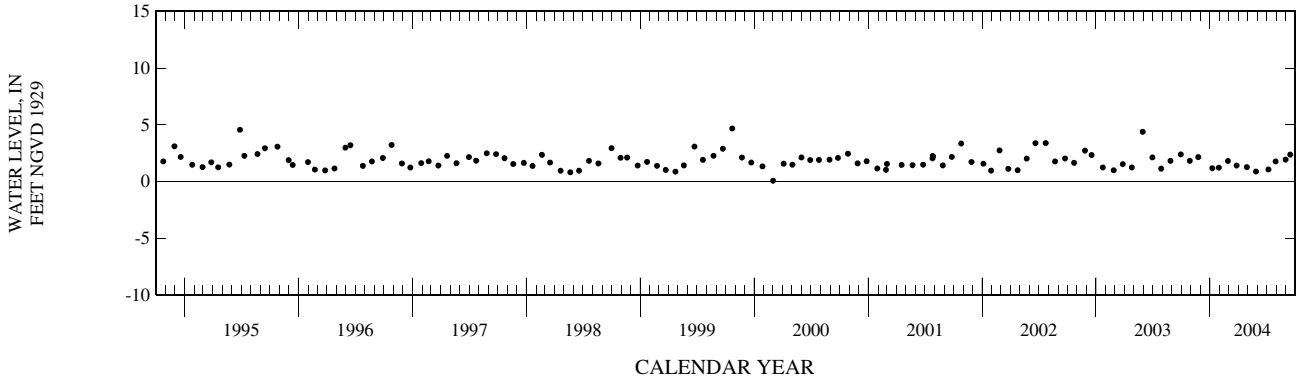
REMARKS.--Well also used for salinity monitoring. Salinity monitoring began in March 1986.

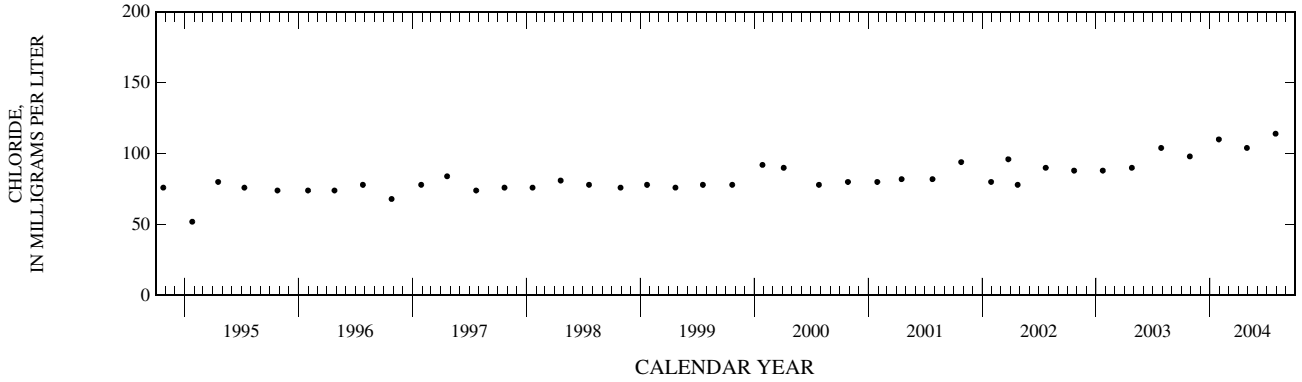
PERIOD OF RECORD.--January 1987 to December 1989 (intermittent), December 1989 to current year. See REMARKS.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.68 ft NGVD, Oct. 22, 1999; lowest, 0.08 ft NGVD, Mar. 1, 2000.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
28...	1241	1.83	711	98.0
NOV				
24...	1120	2.16	--	--
JAN				
08...	1149	1.18	--	--
29...	1338	1.23	706	110
FEB				
27...	1141	1.82	--	--
MAR				
26...	1205	1.42	--	--
APR				
28...	1256	1.28	719	104
MAY				
27...	1215	.89	--	--
JUL				
06...	0942	1.07	--	--
29...	1257	1.78	725	114
AUG				
30...	1043	1.94	--	--
SEP				
14...	1042	2.38	--	--





BROWARD COUNTY—Continued

WELL NUMBER.--260041080093102. Local Number G 2426. USGS Observation Well near Hollywood, FL.

LOCATION.--Lat 26°00'40", long 80°09'32", in SW $^1/_4$ SW $^1/_4$ NE $^1/_4$ sec.16, T.51 S., R.42 E., Hydrologic Unit 03090202, 8 ft north of G-2425, 60 ft east of parking space 10 in the northeast parking lot on City Hall Circle, Hollywood Boulevard and South 26th Avenue.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 91 ft, cased to 86 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 12.78 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 12.8 ft above NGVD.

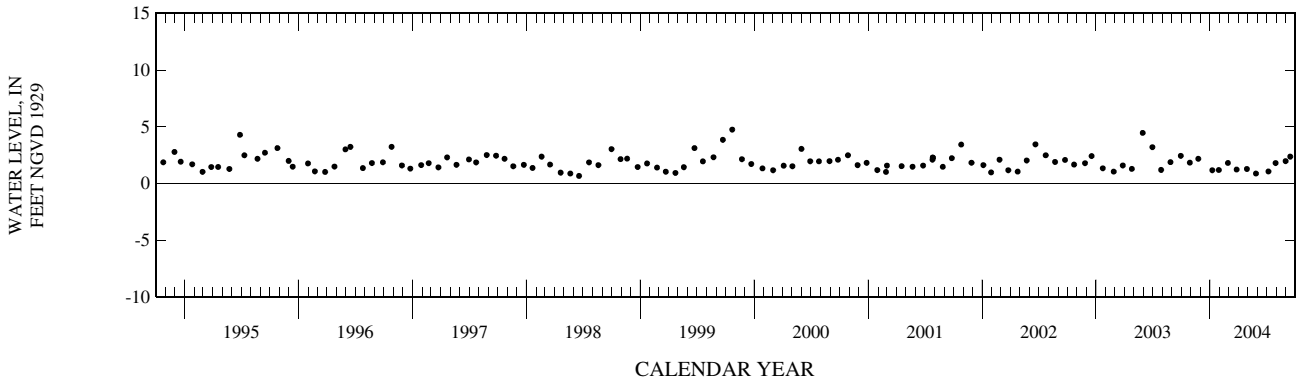
REMARKS.--Well is also used for salinity monitoring. Salinity monitoring began in October 1986.

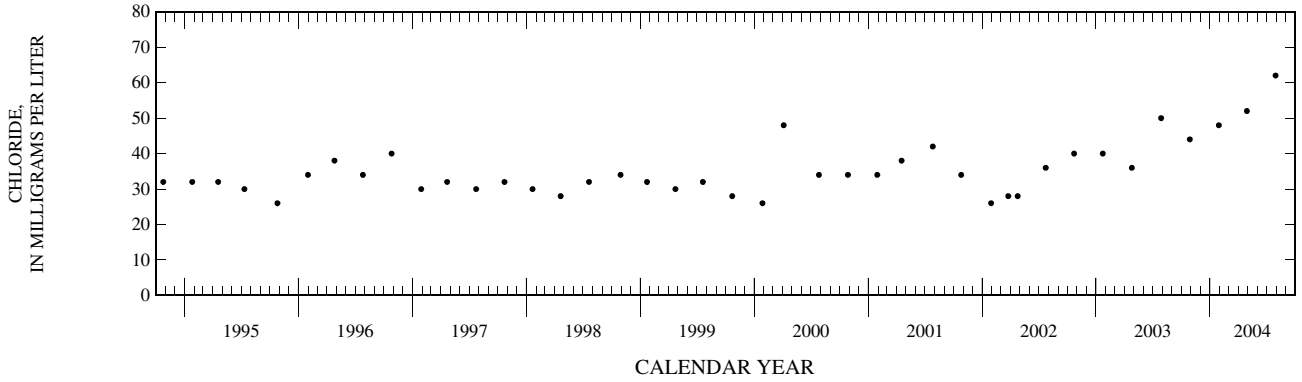
PERIOD OF RECORD.--January 1987 to May 1993 (intermittent), October 1993 to current year. See REMARKS.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.76 ft NGVD, Oct. 22, 1999; lowest, 0.65 ft NGVD, Apr. 4, 1988.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
28...	1244	1.85	465	44.0
NOV				
24...	1125	2.19	--	--
JAN				
08...	1154	1.18	--	--
29...	1335	1.20	472	48.0
FEB				
27...	1137	1.82	--	--
MAR				
26...	1157	1.24	--	--
APR				
28...	1303	1.29	483	52.0
MAY				
27...	1218	.89	--	--
JUL				
06...	0937	1.07	--	--
29...	1259	1.81	498	62.0
AUG				
30...	1045	1.98	--	--
SEP				
14...	1046	2.38	--	--





BROWARD COUNTY—Continued

WELL NUMBER.--260053080105701. Local Number G 1226. USGS Observation Well in Hollywood, FL.

LOCATION.--Lat 26°00'53", long 80°10'57", in NW ¼ SW ¼ NW ¼ sec.17, T.51 S., R.42 E., Hydrologic Unit 03090202, in the center of the median of North Rainbow Drive, 1,500 ft southwest of Johnson Street in Hollywood, 0.3 mi north of Hollywood Boulevard, and 1.7 mi east of U.S. Highway 441. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 5 in., depth 20 ft, cased to 14 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 11.08 ft above National Geodetic Vertical Datum of 1929. From July 5, 1984 to April 10, 1998, measuring point was considered to be top of base, 9.26 ft above NGVD. From July 16, 1981 to July 5, 1984, top of base was 9.26 ft above NGVD. Prior to July 16, 1981, measuring point was top of casing, 9.17 ft above NGVD. (Corrected).

LAND-SURFACE DATUM.--Land surface is approximately 9.1 ft above NGVD.

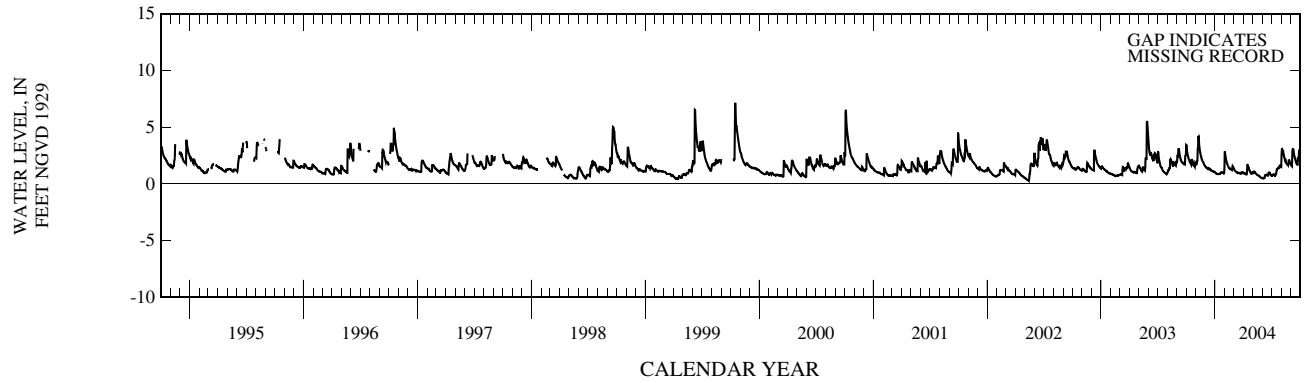
REMARKS.--Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--January 1962 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 9.10 ft NGVD, Oct. 8, 1991; lowest, 0.28 ft NGVD, May 14, 2002.

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	2.59	2.03	1.42	0.91	2.15	1.15	0.93	1.10	0.50	0.84	2.89	2.99
10	2.09	3.77	1.37	0.88	1.70	1.04	0.90	0.95	0.77	0.79	2.30	2.60
15	1.78	2.67	1.34	0.89	1.40	1.00	1.60	0.78	0.83	0.97	1.93	2.03
20	1.87	2.12	1.18	1.00	1.31	0.94	1.23	0.72	0.81	1.39	1.70	1.73
25	1.63	1.85	1.11	0.98	1.41	0.93	0.95	0.60	0.94	1.58	2.09	2.20
EOM	1.74	1.58	1.03	1.40	1.40	0.99	1.01	0.53	0.72	1.59	1.71	2.73
MAX	3.41	4.19	1.54	1.40	2.86	1.37	1.67	1.10	1.01	1.63	3.07	3.05



BROWARD COUNTY—Continued

WELL NUMBER.--260101080091501. Local Number G 2906. USGS Observation Well near Hollywood, FL.

LOCATION.--Lat 26°01'01", long 80°09'15", in NW $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.16, T.51 S., R.42 E., Hydrologic Unit 03090202, in the parking lot of Lincoln Park, about 180 ft south of Lincoln Street, 0.3 mi west of North Dixie Highway.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 158 ft, cased to 148 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 13.89 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 13.9 ft above NGVD.

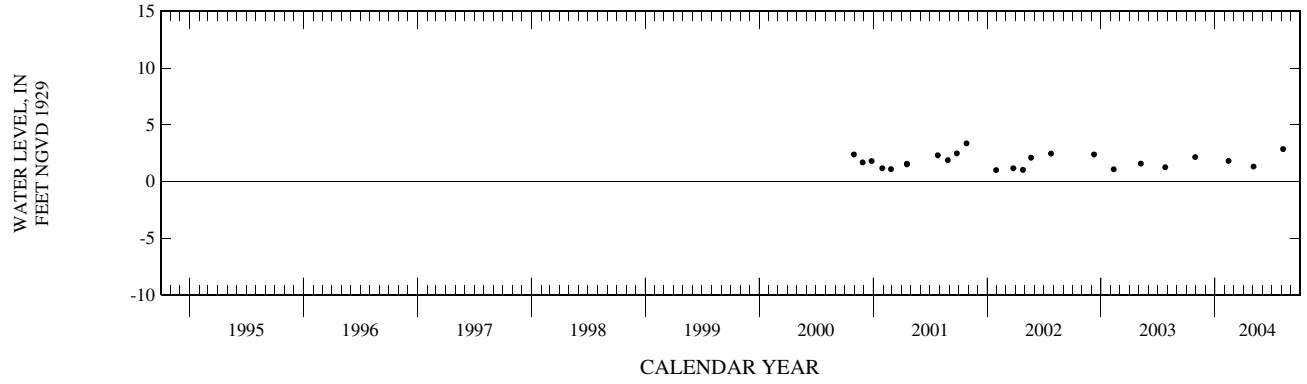
REMARKS.--Well is also used for salinity monitoring, including an annual induction log. Induction logs are used to assess the movement of the fresh-water/salt-water interface in ground water. See EXPLANATION OF THE RECORDS SECTION, RECORDS OF BULK CONDUCTIVITY in the front of this book. A calibration error was found to have affected some of the historical bulk conductivity logs collected by an induction logger. Bulk conductivity logs prior to the 2002 water year had been calibrated to a standard of 1,301 mS/m. For these calibrations an internal setting limited the probe response to 1,000 mS/m. Data for the affected years was corrected by applying a 0.7686 multiplier. Induction logging began in April 2001.

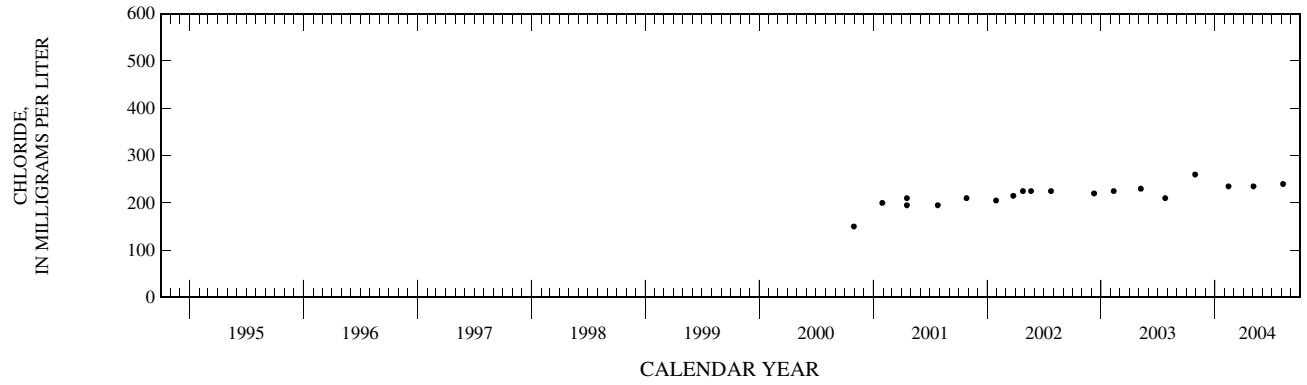
PERIOD OF RECORD.--October 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.37 ft NGVD, Oct. 26, 2001; lowest, 1.02 ft NGVD, Jan. 29, 2002.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
29...	1245	2.16	1,080	260
FEB				
13...	0831	1.82	1,130	235
MAY				
03...	1445	1.33	1,160	235
AUG				
06...	1016	2.87	1,110	240

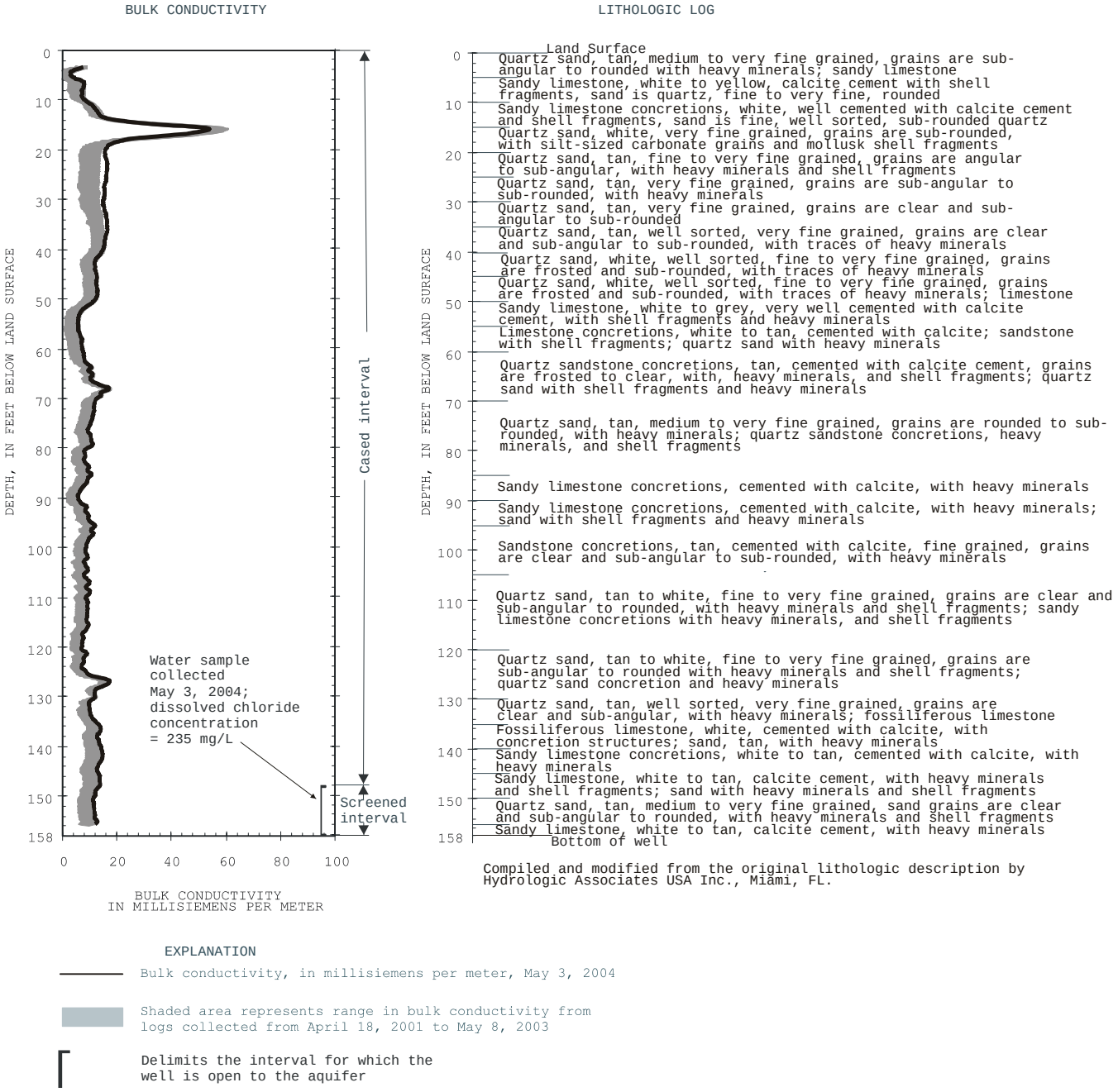




BROWARD COUNTY—Continued

WELL NUMBER.--260101080091501. Local Number G 2906. USGS Observation Well near Hollywood, FL.-Continued

260101080091501 G-2906



Compiled and modified from the original lithologic description by Hydrologic Associates USA Inc., Miami, FL.

EXPLANATION

Bulk conductivity, in millisiemens per meter, May 3, 2004

Shaded area represents range in bulk conductivity from logs collected from April 18, 2001 to May 8, 2003

Delimits the interval for which the well is open to the aquifer

BROWARD COUNTY—Continued

WELL NUMBER.--260120080093401. Local Number G 2441. USGS Observation Well near Hollywood, FL.

LOCATION.--Lat 26°01'19", long 80°09'35" in SE $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.9, T.51 S., R.42 E., Hydrologic Unit 03090202, 16.7 ft from the sidewalk of Arthur Street and 36 ft east of North 26th Avenue.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2.5 in., depth 181 ft, cased to 180 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 10.72 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 10.7 ft above NGVD.

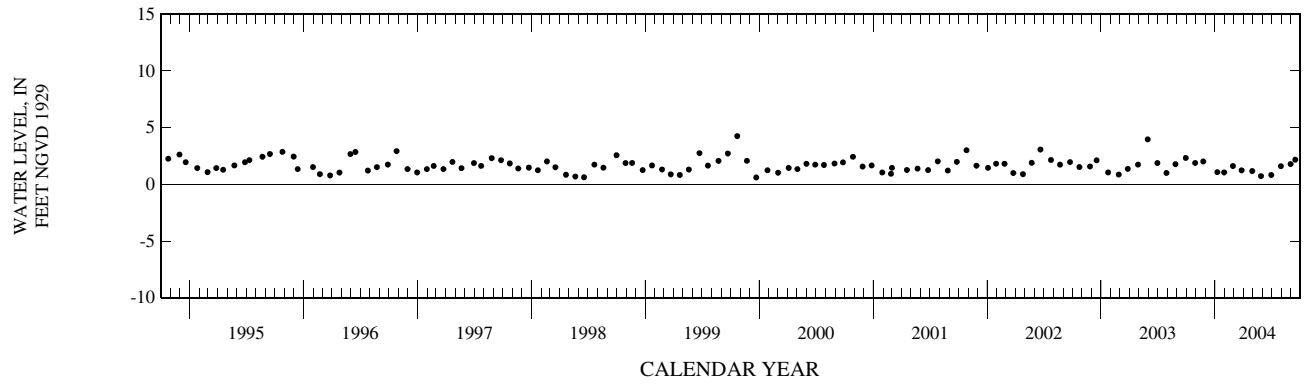
REMARKS.--Well is also used for salinity monitoring. Prior to October 1994 only chloride data was published. See PERIOD OF RECORD.

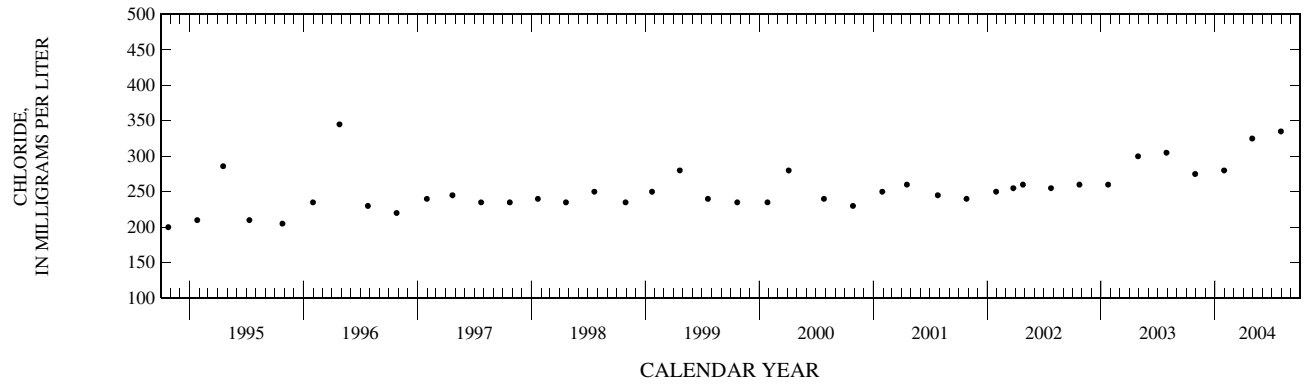
PERIOD OF RECORD.--September 1986 to July 1994 (intermittent), October 1994 to current year. See REMARKS.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.25 ft NGVD, Oct. 22, 1999; lowest, 0.60 ft NGVD, Dec. 22, 1999.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
29...	1024	1.88	1,210	275
NOV				
24...	1143	2.01	--	--
JAN				
08...	1225	1.07	--	--
30...	0959	1.05	1,230	280
FEB				
27...	1217	1.61	--	--
MAR				
26...	1240	1.23	--	--
APR				
29...	1028	1.17	1,270	325
MAY				
27...	1314	.72	--	--
JUN				
29...	1233	.82	--	--
JUL				
30...	0929	1.59	1,130	335
AUG				
30...	1105	1.78	--	--
SEP				
14...	1106	2.17	--	--





BROWARD COUNTY—Continued

WELL NUMBER.--260155080092002. Local Number G 2612. USGS Observation Well in Hollywood, FL.

LOCATION.--Lat 26°01'54", long 80°09'21" in SE $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.8, T.51 S., R.42 E., Hydrologic Unit 03090202, 6 ft from the southwest corner of Boggs Field Park, south of Sheridan Street, 30 ft from NW 24th Avenue, at a ninety degree turn to the west.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 273 ft, cased to 273 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 7.00 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 7.0 ft above NGVD.

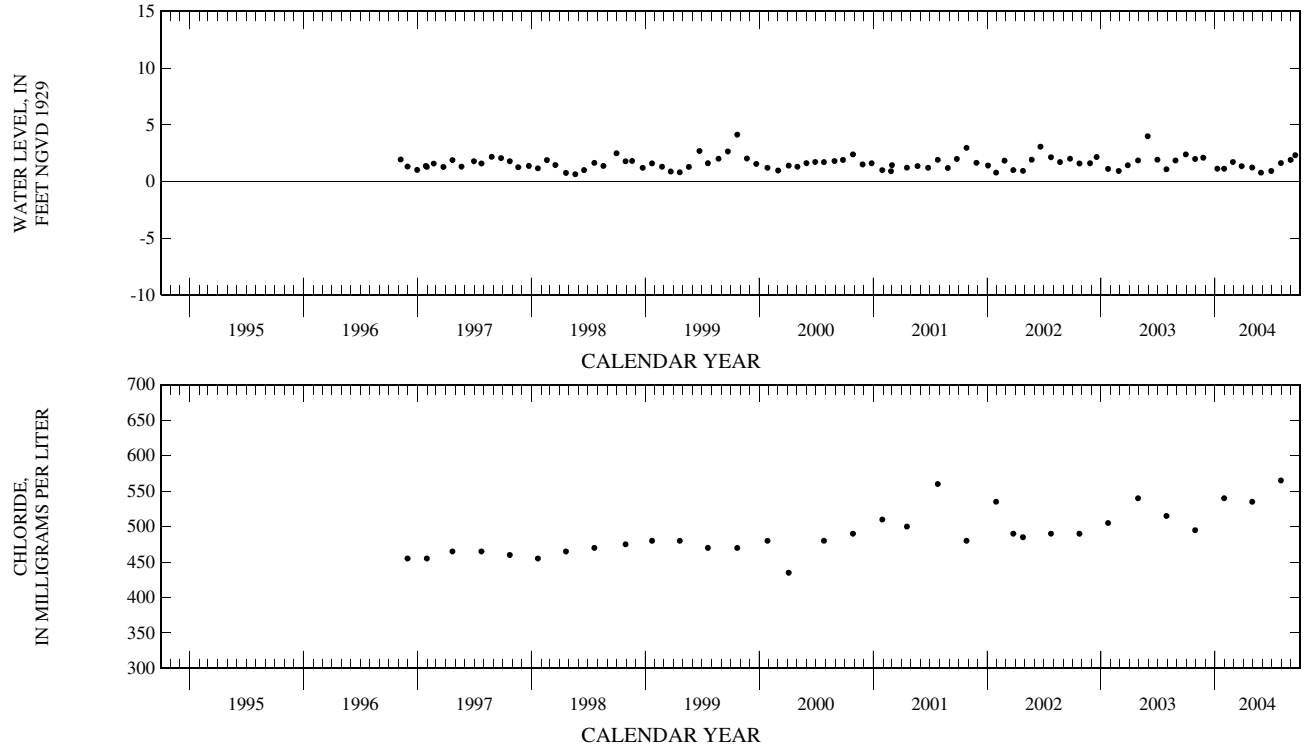
REMARKS.--Well is also used for salinity monitoring. No data for water year 1996. Because of an error on a site photograph, G-2612 was confused with another well. As a result, published records for the 1995 and 1996 water years are in error and have been removed.

PERIOD OF RECORD.--November 1996 to current year. See REMARKS.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.14 ft NGVD, Oct. 22, 1999; lowest, 0.65 ft NGVD, May 21, 1998.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
29...	1112	2.00	1,950	495
NOV				
24...	1157	2.11	--	--
JAN				
08...	1257	1.14	--	--
30...	1039	1.14	1,940	540
FEB				
27...	1231	1.73	--	--
MAR				
26...	1305	1.36	--	--
APR				
29...	1000	1.24	1,970	535
MAY				
27...	1328	.79	--	--
JUN				
29...	1244	.94	--	--
JUL				
30...	1005	1.64	1,960	565
AUG				
30...	1115	1.91	--	--
SEP				
14...	1112	2.33	--	--



BROWARD COUNTY—Continued

WELL NUMBER.--260219080141101. Local Number G 1223. USGS Observation Well in Hollywood, FL.

LOCATION.--Lat 26°02'19", long 80°14'11", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.3, T.51 S., R.41 E., Hydrologic Unit 03090202, north of NW 33rd Street on Davie Road Extension, and 0.5 mi south of Stirling Road. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 5 in., depth 20 ft, cased to 12 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 8.43 ft above National Geodetic Vertical Datum of 1929. From October 1980 to April 2001, measuring point was 8.33 ft above NGVD. Prior to October 1980, measuring point was incorrectly considered to be 7.98 ft above NGVD. (Corrected). See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 6.3 ft above NGVD. (Corrected).

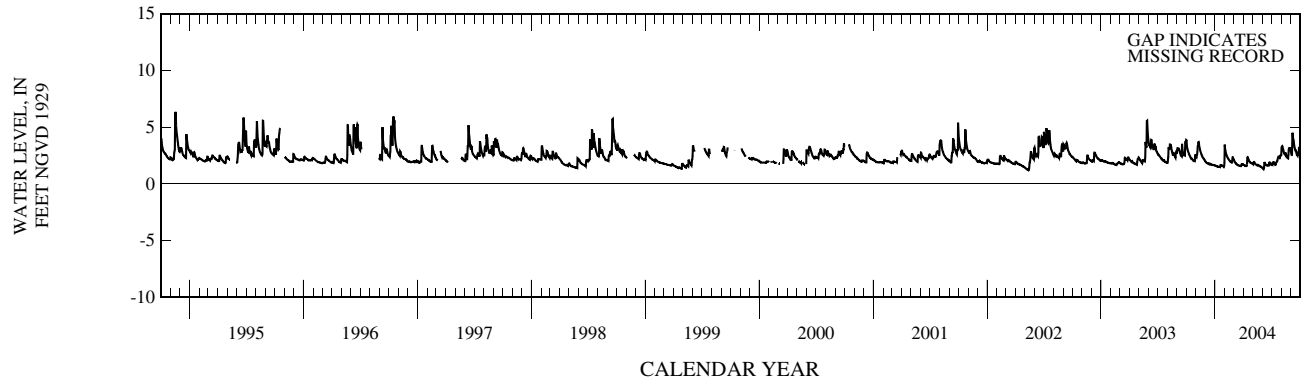
REMARKS.--Revised measuring point elevation April 2001, is the result of reconstruction at this station. The figures of water level as elevation, in feet NGVD, prior to October 1, 1980, are in error. Corrected records are in files of the U.S. Geological Survey. Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey. See DATUM.

PERIOD OF RECORD.--December 1962 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 6.45 ft NGVD, Oct. 8, 1991; lowest, 1.18 ft NGVD, Nov. 11, 1968.

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	3.00	2.82	1.86	1.57	2.67	1.89	1.62	1.94	1.34	1.88	3.06	4.51
10	2.62	3.54	1.81	1.52	2.33	1.74	1.57	1.74	1.76	1.79	2.66	3.50
15	2.30	2.91	1.78	1.50	2.10	1.65	2.34	1.63	1.66	1.87	2.48	2.96
20	2.14	2.48	1.70	1.68	1.95	1.59	1.99	1.61	1.62	2.24	2.30	2.53
25	2.01	2.23	1.68	1.57	2.11	1.65	1.85	1.54	1.86	2.27	3.14	2.69
EOM	2.43	2.02	1.63	1.87	2.20	1.71	1.78	1.43	1.67	2.52	2.81	3.36
MAX	3.84	3.69	1.99	1.87	3.46	2.14	2.36	1.94	1.92	2.52	3.34	4.51



BROWARD COUNTY—Continued

WELL NUMBER.--260241080112701 Local Number G 2785. USGS Observation Well near Dania, FL.

LOCATION.--Lat 26°02'41", long 80°11'27", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.6, T.51 S., R.42 E., Hydrologic Unit 03090202, 33 ft east of BellSouth structure, on the west side of North 46th Avenue and 200 ft south of Stirling Road. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 2 in., depth 197 ft, cased to 192 ft, screened 192 to 197 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape. See REMARKS.

DATUM.--Measuring point: Top of casing, 6.63 ft above National Geodetic Vertical Datum of 1929. Between March 2, 2001 and June 5, 2002, measuring point was top of base, 10.34 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 6.6 ft above NGVD.

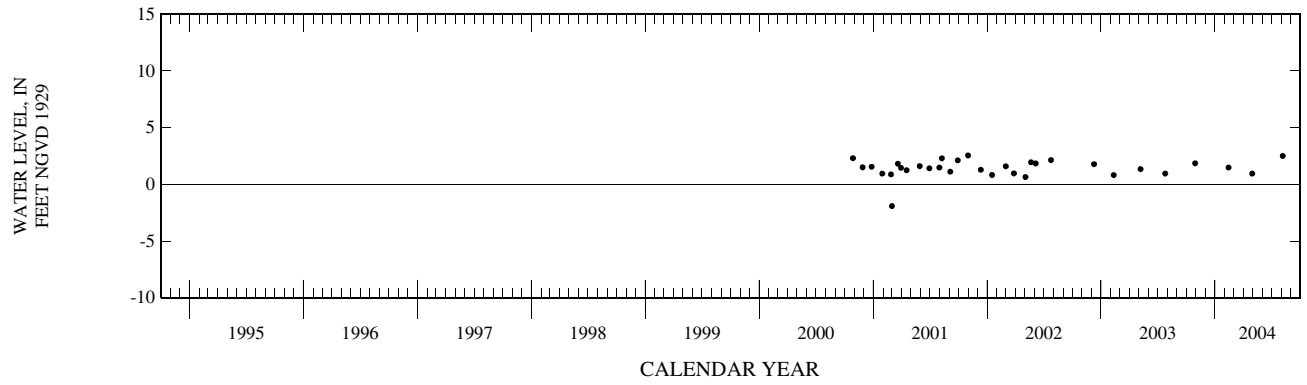
REMARKS.--Well is also used for salinity sampling, including an annual induction log. Induction logs are used to assess the movement of the fresh-water/salt-water interface in ground water. See EXPLANATION OF THE RECORDS SECTION, RECORDS OF BULK CONDUCTIVITY in the front of the book. A calibration error was found to have affected some of the historical bulk conductivity logs collected by an induction logger. Bulk conductivity logs prior to the 2002 water year had been calibrated to a standard of 1,301 mS/m. For these calibrations an internal setting limited the probe response to 1,000 mS/m. Data for the affected years was corrected by applying a 0.7686 multiplier. Quarterly water-level measurements began in October, 2000. Between March 2, 2001 and June 5, 2002 the station was temporarily reconstructed for continuous water-level and conductivity data collection. These data are available in the files of the U.S. Geological Survey.

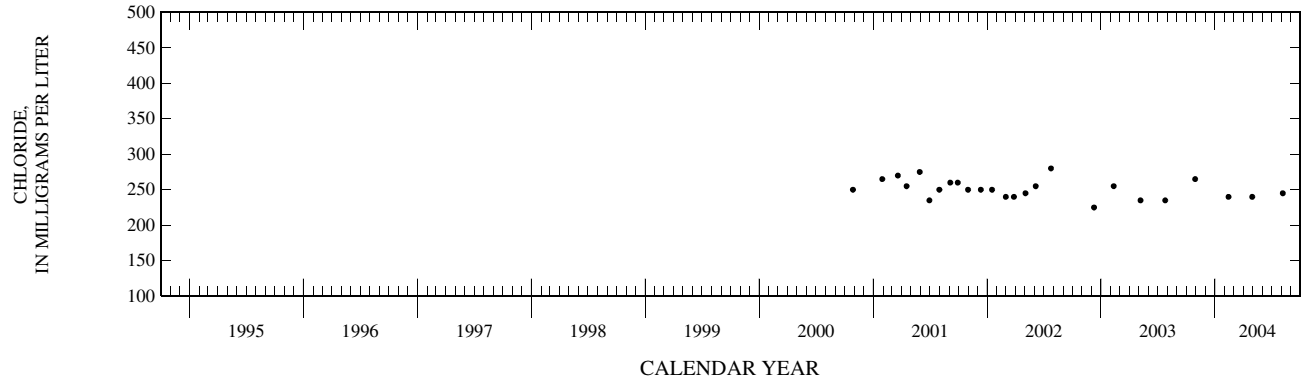
PERIOD OF RECORD.--April 2000 to September 2000 (Intermittent), October 2000 to February 2001 (monthly), March 2001 to June 2002 (daily), June 2002 to current year. See REMARKS.

EXTREMES FOR THE PERIOD OF RECORD.--Highest daily maximum water level, 3.97 ft NGVD, Sept. 29, 2001; lowest water level measured, 1.92 ft below NGVD, Mar. 1, 2001.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

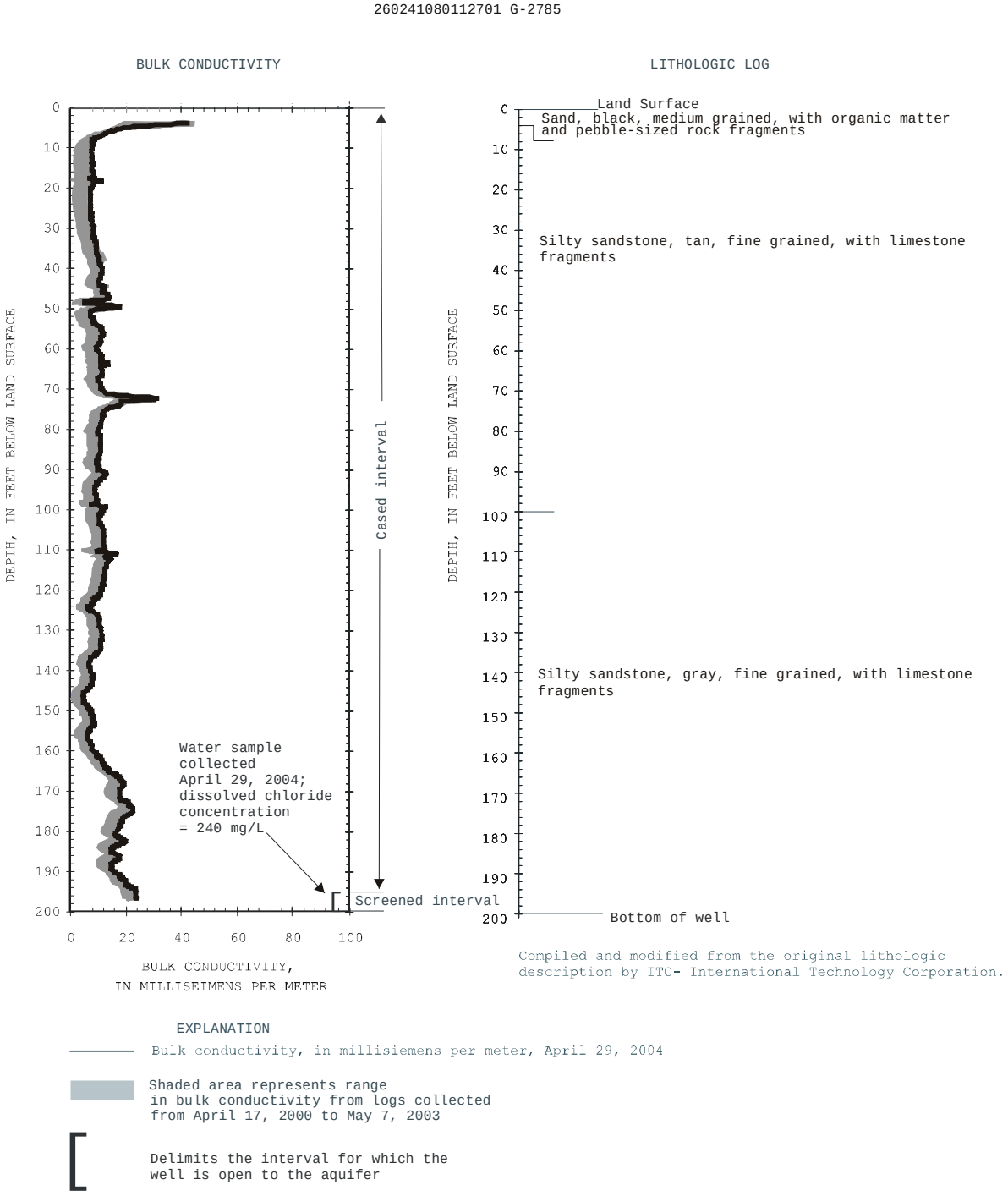
Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
29...	1132	1.85	1,280	265
FEB				
13...	1011	1.48	1,310	240
APR				
29...	1408	.94	1,340	240
AUG				
05...	1327	2.50	1,310	245





BROWARD COUNTY—Continued

WELL NUMBER.--260241080112701 Local Number G 2785. USGS Observation Well near Dania, FL.-Continued



BROWARD COUNTY—Continued

WELL NUMBER.--260325080113901. Local Number G 2900. USGS Observation Well near Fort Lauderdale, FL.

LOCATION.--Lat 26°03'25", long 80°11'39", in SE $^1/_4$ NW $^1/_4$ sec.31, T.50 S., R.42 E., Hydrologic Unit 03090202, 29 ft south of a storm drain on the east side of SW 35th Terrace, 0.45 mi south of Griffin Road.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 114.5 ft, cased to 104.5 ft, screened 104.5 to 114.5 ft.

INSTRUMENTATION.--Satellite data collection platform with pressure transducer and conductivity probe.

DATUM.--Measuring point: Top of base, 9.44 ft above National Geodetic Vertical Datum of 1929. Prior to February 15, 2001, measuring point was top of casing 5.98 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 6.0 ft above NGVD.

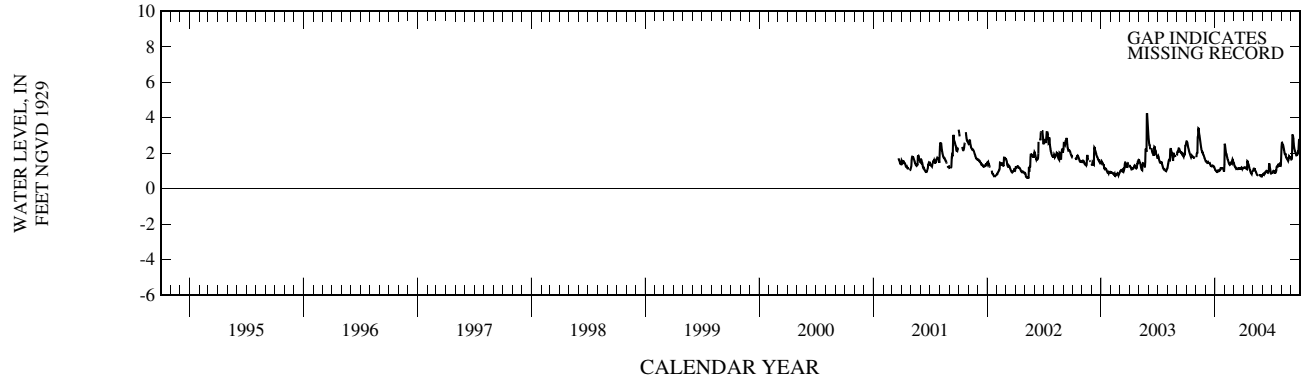
REMARKS.--Well is also used for salinity monitoring, including an annual induction log. Induction logs are used to assess the movement of fresh-water/salt-water interface in ground water. See EXPLANATION OF THE RECORDS SECTION, RECORDS OF BULK CONDUCTIVITY in the front of this book. A calibration error was found to have affected some of the historical bulk conductivity logs collected by an induction logger. Bulk conductivity logs prior to the 2002 water year had been calibrated to a standard of 1,301 mS/m. For these calibrations an internal setting limited the probe response to 1,000 mS/m. Data for the affected years was corrected by applying a 0.7686 multiplier. Station was reconstructed in February 2001, for the collection of continuous water-level, temperature and specific conductance data. Specific conductance record is rated satisfactory for the year. Temperature records are available in the files of the U.S. Geological Survey.

PERIOD OF RECORD.--Water Level Measurements: October 2000 to March 2001 (monthly), March 2001 to current year. Induction Logging: April 2000 to current year (annually). Specific Conductance: March 2001 to current year. Chloride concentration: October 2000 to current year (monthly). (Corrected).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 4.20 ft NGVD, May 27, 28, 2003; lowest, 0.62 ft NGVD, May 8, 10, 11, 2002. Highest daily mean specific conductance, 10,570 microsiemens, Sept. 5, 2004; lowest, 7,718 microsiemens, Oct. 27, 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	2.51	2.02	1.51	0.98	2.03	1.23	1.21	1.13	0.85	1.00	2.44	3.02
10	2.09	3.19	1.52	0.98	1.65	1.16	1.15	0.98	0.94	0.92	2.05	2.37
15	1.81	2.59	1.44	1.03	1.41	1.13	1.44	0.77	0.99	1.03	1.82	2.03
20	1.82	2.10	1.27	1.15	1.47	1.14	1.16	---	0.94	1.32	1.64	1.91
25	1.75	1.89	1.30	1.15	1.58	1.15	0.89	0.76	1.15	1.31	1.84	2.38
EOM	---	1.63	1.13	1.36	1.48	1.16	0.99	0.72	0.81	1.88	1.71	2.64
MAX	---	3.41	---	1.36	2.53	1.45	1.56	---	1.42	---	2.60	3.02

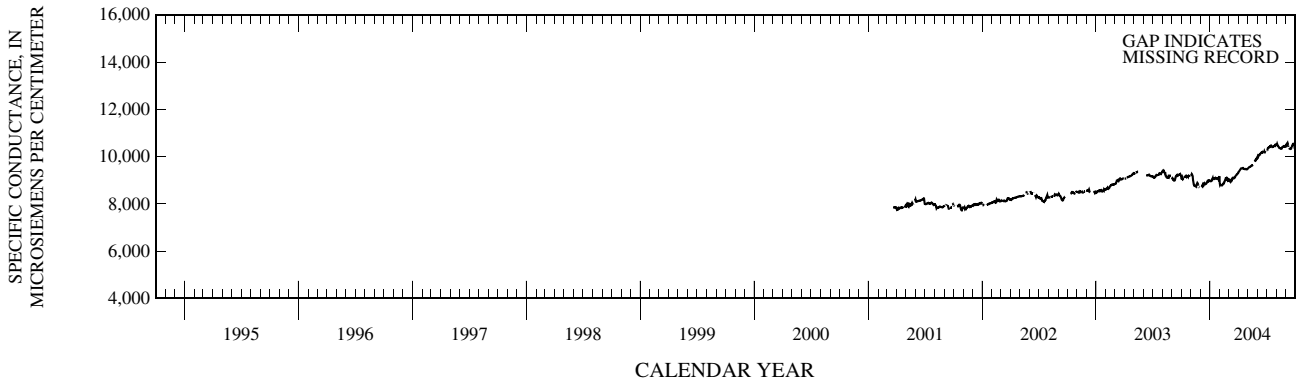


SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9,089	9,211	8,739	8,967	8,795	8,986	9,421	9,545	10,040	10,370	10,460	10,570
10	9,113	8,793	8,856	9,051	8,819	9,041	9,516	9,583	10,120	10,400	10,360	10,360
15	9,182	8,747	8,840	9,085	8,916	9,090	9,494	9,630	10,170	10,460	10,340	10,320
20	9,152	8,853	8,864	9,059	9,074	9,118	9,473	---	10,160	10,410	10,400	10,470
25	9,183	---	8,946	9,093	9,086	9,222	9,470	9,850	10,170	10,450	10,440	10,540
EOM	---	---	8,966	9,166	9,040	9,309	9,484	9,924	10,200	10,510	10,440	10,330
MAX	-	-	-	9,166	9,086	9,309	-	-	-	-	10,530	-

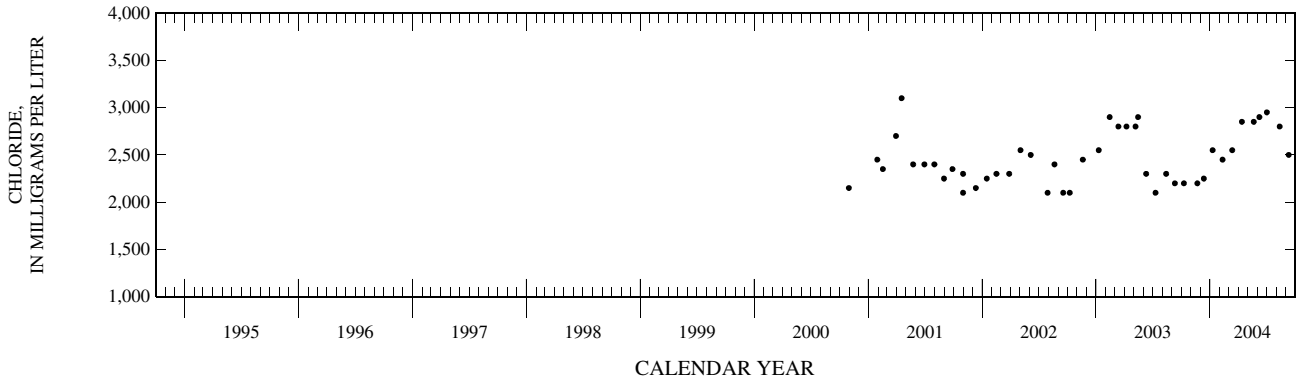
BROWARD COUNTY—Continued

WELL NUMBER.--260325080113901. Local Number G 2900. USGS Observation Well near Fort Lauderdale, FL-Continued



WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Chlor-ide, water, fltrd, mg/L (00940)	Date	Time	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Chlor-ide, water, fltrd, mg/L (00940)
OCT				APR			
09...	1341	7,020	2,200	12...	1318	8,990	2,850
NOV				MAY			
21...	1026	6,790	2,200	20...	0930	9,190	2,850
DEC				JUN			
12...	1033	7,060	2,250	07...	0858	9,520	2,900
JAN				JUL			
09...	1122	7,860	2,550	01...	1005	9,330	2,950
FEB				AUG			
10...	1046	7,880	2,450	11...	0955	8,560	2,800
MAR				SEP			
12...	1010	8,230	2,550	09...	1004	8,060	2,500



BROWARD COUNTY—Continued

WELL NUMBER.--260326080120301. Local Number G 2921. USGS Observation Well near Davie, FL.

LOCATION.--Lat 26°03'26", long 80°12'03", in NW ¼ SE ¼ NE ¼ sec. 36, T.50 S., R.41 E., Hydrologic Unit 03090202, at the northwest corner of the intersection of SW 40th Avenue and 52nd Street, 0.40 mi south of Griffin Road.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 207 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape. Annual profile by induction logger.

DATUM.--Measuring point: Top of casing, 4.01 ft above National Geodetic Vertical Datum of 1929. Prior to January 23, 2004, measuring point was estimated to be 5.0 ft from a topographic map. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 4.0 ft above NGVD.

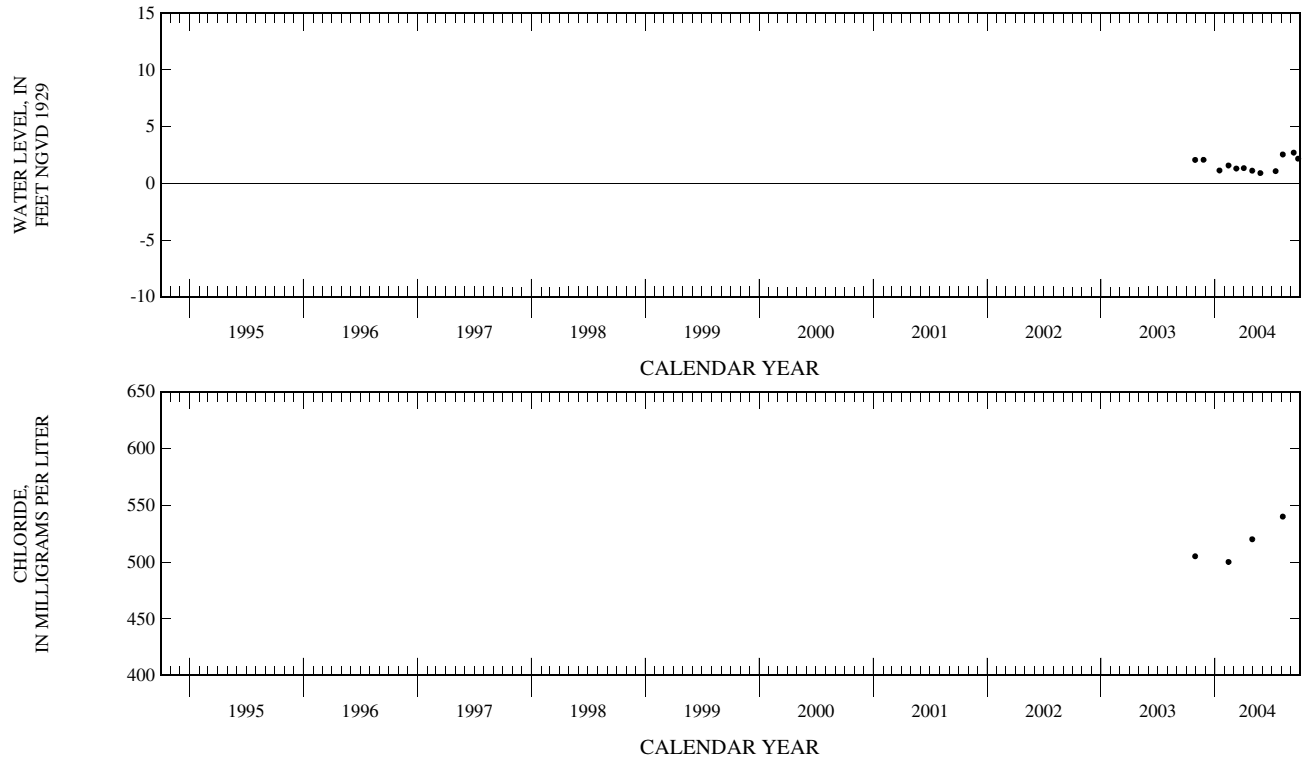
REMARKS.--Well is also used for salinity monitoring, including an annual induction log. Induction logs are used to assess the movement of the fresh-water/salt-water interface in ground water. See EXPLANATION OF THE RECORDS SECTION, RECORDS OF BULK CONDUCTIVITY in the front of this book. A calibration error was found to have affected some of the historical bulk conductivity logs collected by an induction logger. Bulk conductivity logs prior to the 2002 water year had been calibrated to a standard of 1,301 mS/m. For these calibrations an internal setting limited the probe response to 1,000 mS/m. Data for the affected years was corrected by applying a 0.7686 multiplier. The estimated measuring point published prior to January 23, 2004, was not used to compute water-level elevations. All water-level elevation data collected prior to January 23, 2004, were computed using the 4.01 ft measuring point. Water level and chloride concentration monitoring began in October 2003.

PERIOD OF RECORD.--August 2000 to current year. See REMARKS.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.70 ft NGVD, Sept. 9, 2004; lowest, 0.90 ft NGVD, May 25, 2004.

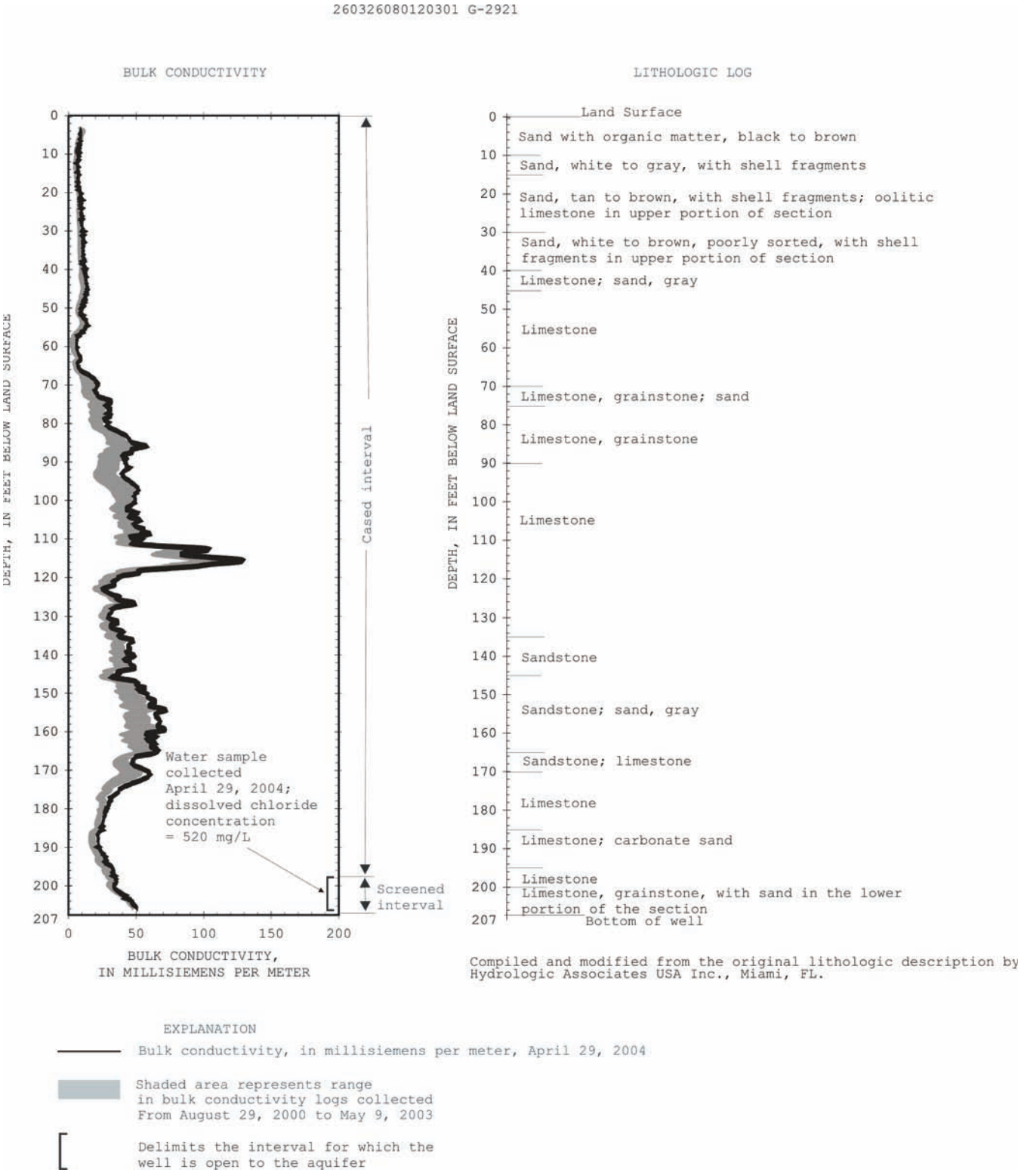
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
29...	1105	2.06	1,950	505
NOV				
25...	1205	2.07	--	--
JAN				
15...	0849	1.13	--	--
FEB				
13...	1040	1.57	2,070	500
MAR				
09...	0932	1.30	--	--
APR				
02...	1015	1.34	--	--
29...	1259	1.11	2,120	520
MAY				
25...	1112	.90	--	--
JUL				
13...	1305	1.07	--	--
AUG				
05...	1249	2.54	2,150	540
SEP				
09...	1204	2.70	--	--
23...	1158	2.17	--	--



BROWARD COUNTY—Continued

WELL NUMBER.--260326080120301. Local Number G 2921. USGS Observation Well near Davie, FL.-Continued



BROWARD COUNTY

WELL NUMBER.--260342080115902. Local Number G 2264. USGS Observation Well near Fort Lauderdale, FL.

LOCATION.--Lat 26°03'42", long 80°11'59", in NW $^1/_4$ NW $^1/_4$ NW $^1/_4$ sec. 31, T.50 S., R.42 E., Hydrologic Unit 03090202, 34 ft east of center of SW 40th Avenue and south of Griffin Road.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 203 ft, cased to 196 ft. Open hole 196 to 203 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 4.70 ft above National Geodetic Vertical Datum of 1929. Prior to December 2000, the measuring point was considered to be 3.88 ft above NGVD. SEE REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 4.7 ft above NGVD.

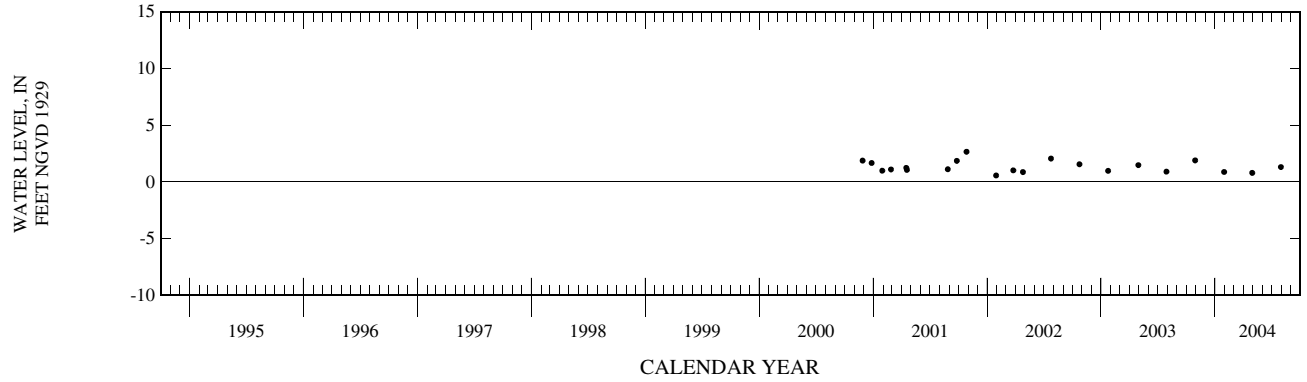
REMARKS.--Well is also used for salinity monitoring. Quarterly water level measurements began in November 2000. Prior to that, well was only monitored for salinity. In December 2000, construction activities altered the land-surface datum and the casing was reconstructed.

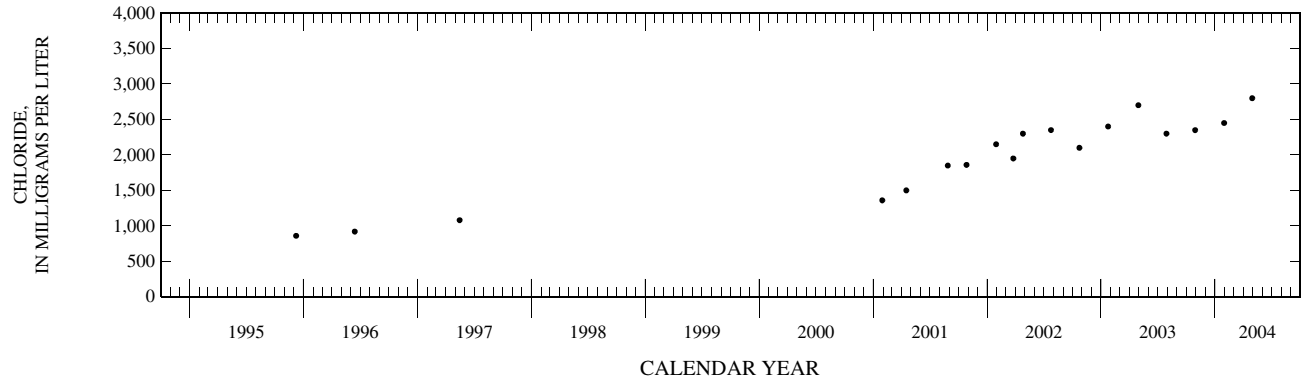
PERIOD OF RECORD.--July 1976 to April 2000 (intermittent), October 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.66 ft NGVD, Oct. 26, 2001; lowest, 0.57 ft NGVD, Jan. 29, 2002.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
29...	1305	1.90	7,150	2,350
JAN				
30...	1315	.88	7,400	2,450
APR				
29...	1254	.80	7,630	2,800
JUL				
30...	1230	1.31	7,930	--





BROWARD COUNTY—Continued

WELL NUMBER.--260458080134801. Local Number G 1221. USGS Observation Well in Davie, FL.

LOCATION.--Lat 26°05'08", long 80°13'47", in NE ¼ SW ¼ NW ¼ sec.23, T.50 S., R.41 E., Hydrologic Unit 03090202, at southwest corner of Nova Drive and Davie Road Extension, 0.75 mi south of State Road 84, and 1.6 mi west of the Florida Turnpike. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 5 in., depth 20 ft, cased to 12 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of base, 9.58 ft above National Geodetic Vertical Datum of 1929. From October 1982 to November 1983, measuring point was top of shelf, 9.10 ft above NGVD. Prior to March 1979, measuring point was top of casing, 9.53 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 6.1 ft above NGVD.

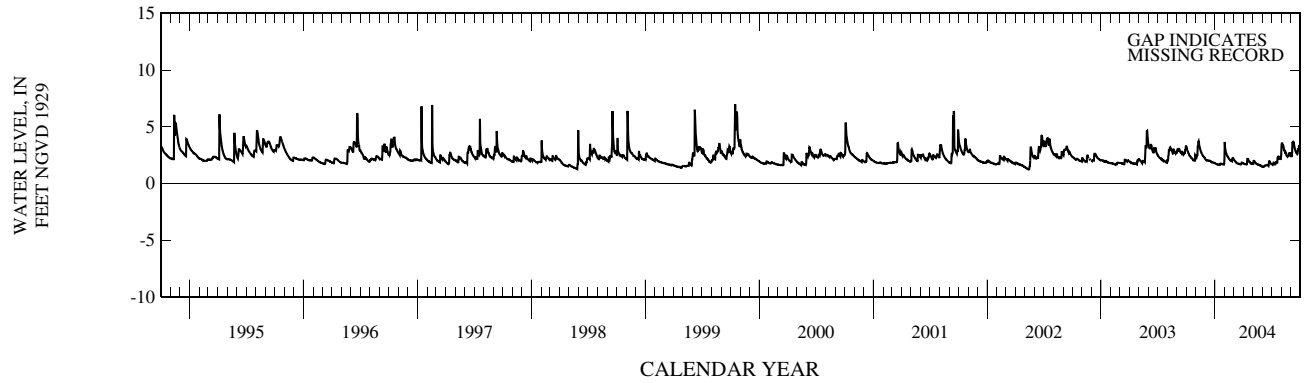
REMARKS.--Records of water levels prior to October, 1973 are available in files of the U.S. Geological Survey. Station was damaged in March 1979 and November 1983.

PERIOD OF RECORD.--December 1962 to March 1979, October 1982 to November 1983, March 1984 to current year. (Corrected).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.02 ft NGVD, June 22, 1992; lowest, 0.67 ft NGVD, Apr. 30, 1971.

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	2.89	2.50	2.07	1.73	2.70	1.96	1.73	2.00	1.52	1.71	3.36	3.63
10	2.53	3.58	2.03	1.69	2.40	1.83	1.70	1.79	1.61	1.75	2.95	3.46
15	2.33	2.98	2.01	1.67	2.16	1.76	2.18	1.69	1.64	1.91	2.64	2.85
20	2.17	2.63	1.92	1.76	2.02	1.71	1.92	1.67	1.56	2.35	2.38	2.60
25	2.05	2.37	1.86	1.70	2.17	1.72	1.76	1.58	1.91	2.19	2.68	2.99
EOM	2.41	2.19	1.80	2.15	2.18	1.81	1.76	1.49	1.72	2.63	2.64	3.43
MAX	3.25	3.72	2.15	2.15	3.67	2.12	2.18	2.00	1.96	2.63	3.55	3.66



BROWARD COUNTY—Continued

WELL NUMBER.--260515080202101. Local Number G 617. USGS Observation Well in Davie, FL.

LOCATION.--Lat 26°05'15", long 80°20'21", in SE ¼ SE ¼ SW ¼ sec.15, T.50 S., R.40 E., Hydrologic Unit 03090202, on SW 26th Street, west of SW 142nd Avenue, 1.8 mi north of South New River Canal, 6.5 mi west of Davie and 14.2 mi west of Fort Lauderdale. (Corrected).

AQUIFER.--Biscayne aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 29 ft, cased to 28 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 9.59 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 6.6 ft above NGVD. (Corrected).

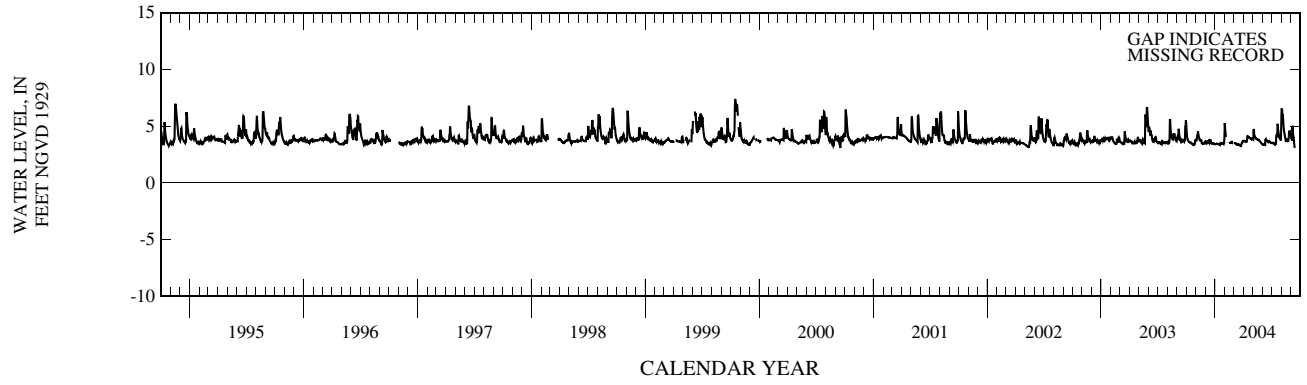
REMARKS.--Records of water levels prior to January 1957 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--January 1950 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.40 ft NGVD, Oct. 15, 1999; lowest, 2.46 ft NGVD, June 7, 1962.

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	3.83	4.17	3.47	3.45	4.06	3.50	3.66	4.26	3.37	3.52	6.04	5.04
10	3.59	4.04	3.65	3.42	---	3.43	3.60	3.95	3.81	3.39	4.41	3.59
15	3.52	3.78	3.79	3.41	---	3.40	4.11	3.81	3.70	4.20	3.69	---
20	3.42	3.48	3.54	3.54	3.52	3.31	3.97	3.76	3.58	5.10	3.69	---
25	3.37	3.50	3.45	3.46	3.72	3.35	3.87	3.60	3.61	4.01	4.53	---
EOM	3.80	3.64	3.42	4.06	---	3.70	3.88	3.44	3.52	5.37	4.02	---
MAX	4.70	4.53	3.79	4.06	---	---	4.13	4.67	3.86	5.37	6.50	---



BROWARD COUNTY—Continued

WELL NUMBER.--260530080112101. Local Number G 2130. USGS Observation Well near Fort Lauderdale, FL.

LOCATION.--Lat 26°05'30", long 80°11'22", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.18, T.50 S., R.42 E., Hydrologic Unit 03090202, 11.6 ft west of edge of SW 33rd Terrace and 6.0 ft north of stop sign at southwest corner of intersection of Riverland Road and SW 33rd Terrace.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 60 ft, cased to 59 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 7.16 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 7.1 ft above NGVD.

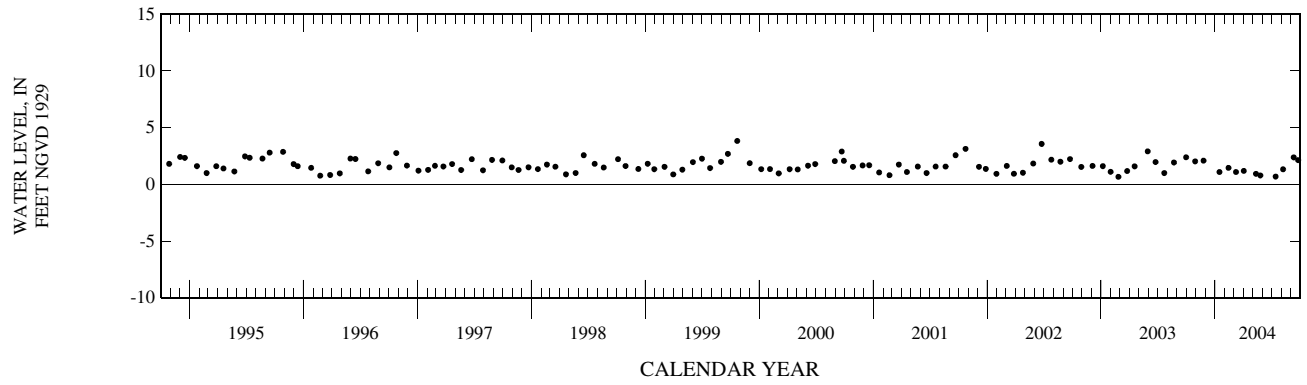
REMARKS.--Well also used for salinity monitoring. Salinity monitoring began in March 1975.

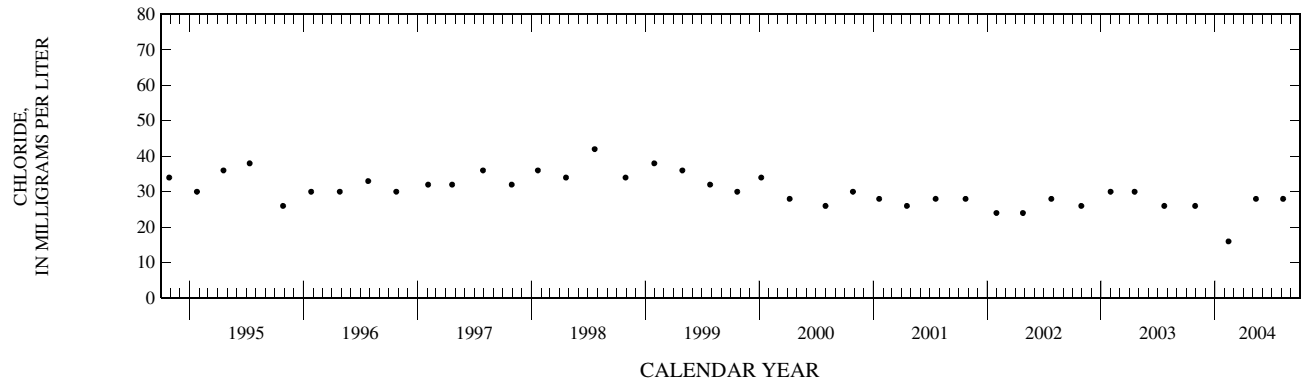
PERIOD OF RECORD.--October 1975 to August 1990 (intermittent), October 1990 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.15 ft NGVD, June 18, 1993; lowest, 0.54 ft above NGVD, Apr. 26, 1988 and Dec. 15, 1989.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
29...	1033	2.02	435	26.0
NOV				
25...	1030	2.08	--	--
JAN				
15...	0945	1.08	--	--
FEB				
13...	1210	1.45	348	16.0
MAR				
08...	1446	1.08	--	--
APR				
02...	1040	1.18	--	--
MAY				
11...	1335	.92	463	28.0
25...	1040	.78	--	--
JUL				
13...	1240	.68	--	--
AUG				
06...	1053	1.32	458	28.0
SEP				
09...	1219	2.37	--	--
23...	1220	2.13	--	--





BROWARD COUNTY—Continued

WELL NUMBER.--260534080110801. Local Number G 2904. USGS Observation Well near Fort Lauderdale, FL.

LOCATION.--Lat 26°05'36", long 80°11'09", in SW $^1/_4$ SW $^1/_4$ SW $^1/_4$ sec.17, T.50 S., R.42 E., Hydrologic Unit 03090202, at St. Ambrose Church, 16 ft east of SW 31st Avenue, northeast of the intersection of SW 31st Avenue and SW 23rd Court.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 2 in., depth 126 ft, cased to 116 ft, screened 116 to 126 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 5.04 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 5.0 ft above NGVD.

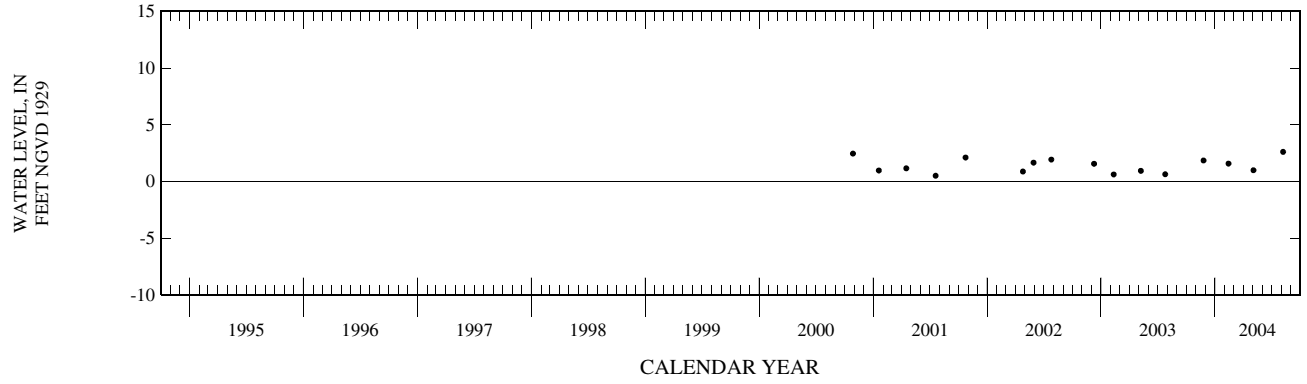
REMARKS.--Well is also used for salinity monitoring, including an annual induction log. Induction logs are used to assess movement of the fresh-water/salt-water interface in ground water. See EXPLANATION OF THE RECORDS SECTION, RECORDS OF BULK CONDUCTIVITY in the front of this book. A calibration error was found to have affected some of the historical bulk conductivity logs collected by an induction logger. Bulk conductivity logs prior to the 2002 water year had been calibrated to a standard of 1,301 mS/m. For these calibrations an internal setting limited the probe response to 1,000 mS/m. Data for the affected years was corrected by applying a 0.7686 multiplier. Quarterly water-level measurements began in October 2000.

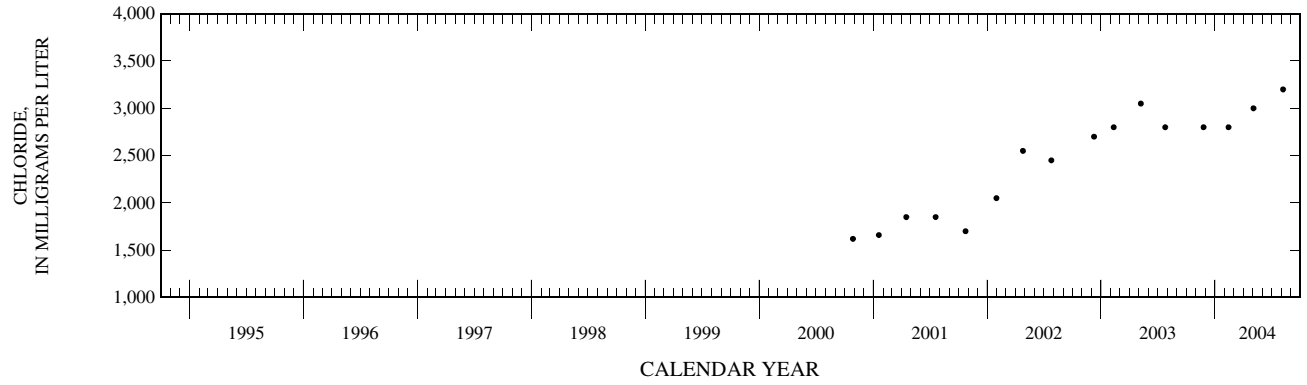
PERIOD OF RECORD.--April 2000 to current year. See REMARKS.

EXTREMES FOR THE PERIOD OF RECORD.--Highest water level measured, 2.62 ft NGVD, Aug. 6, 2004; lowest, 0.52 ft NGVD, July 19, 2001.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
NOV				
25...	1051	1.86	9,040	2,800
FEB				
13...	1115	1.59	8,880	2,800
MAY				
03...	1110	1.00	9,620	3,000
AUG				
06...	1108	2.62	9,900	3,200

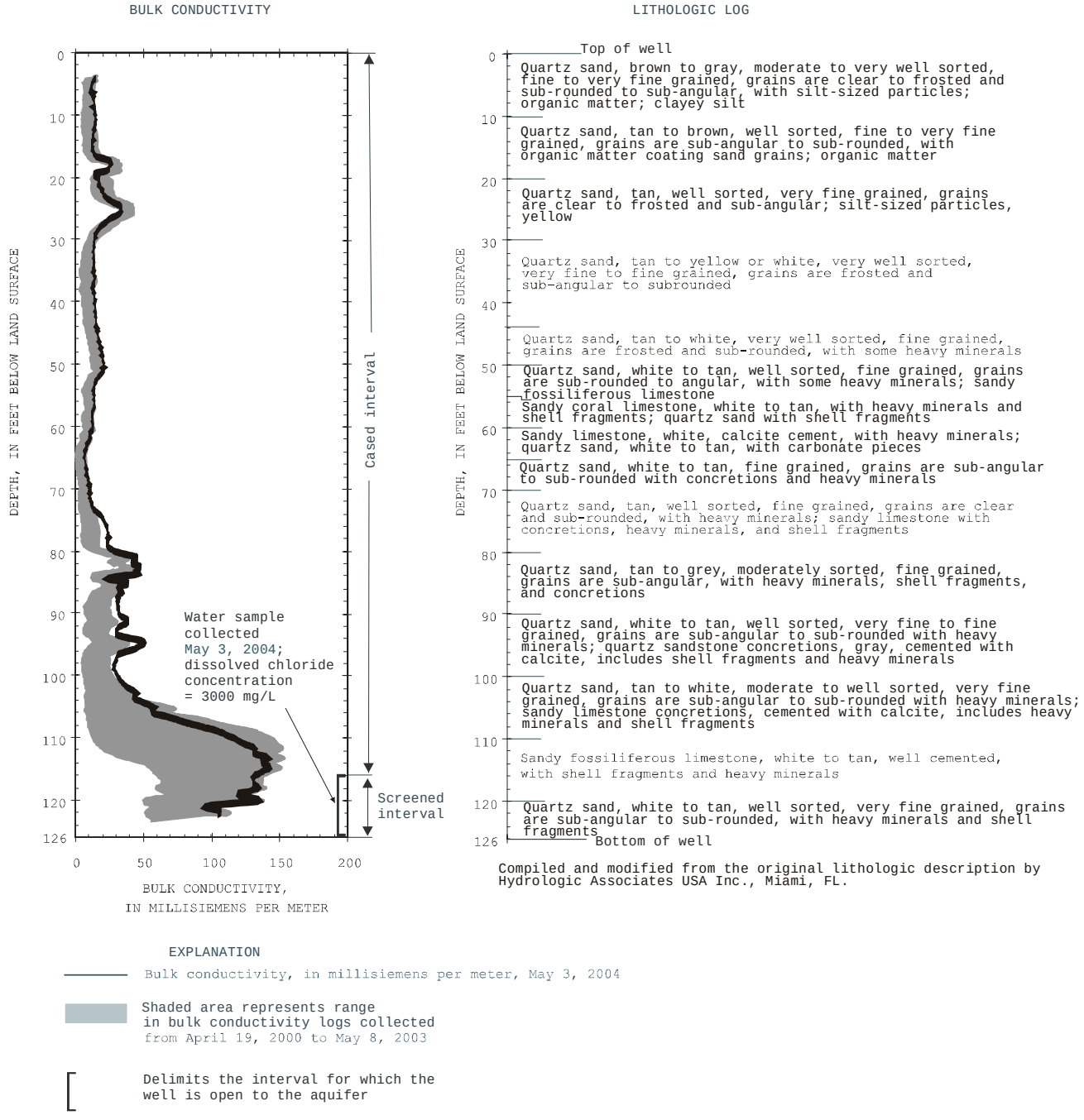




BROWARD COUNTY—Continued

WELL NUMBER.--260534080110801. Local Number G 2904. USGS Observation Well near Fort Lauderdale, FL.-Continued

260534080110801 G-2904



Compiled and modified from the original lithologic description by Hydrologic Associates USA Inc., Miami, FL.

EXPLANATION

Bulk conductivity, in millisiemens per meter, May 3, 2004

Shaded area represents range in bulk conductivity logs collected from April 19, 2000 to May 8, 2003

Delimits the interval for which the well is open to the aquifer

BROWARD COUNTY—Continued

WELL NUMBER.--260534080112101. Local Number G 2129. USGS Observation Well near Fort Lauderdale, FL.

LOCATION.--Lat 26°05'33", long 80°11'22" in SW ¼ SW ¼ SE ¼ sec.18, T.50 S., R.42 E., Hydrologic Unit 03090202, on western side of SW 33rd Terrace, 100 ft north of intersection between SW 33rd Terrace and Riverland Road.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 3 in., depth 180 ft, cased to 179 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 4.69 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 4.7 ft above NGVD.

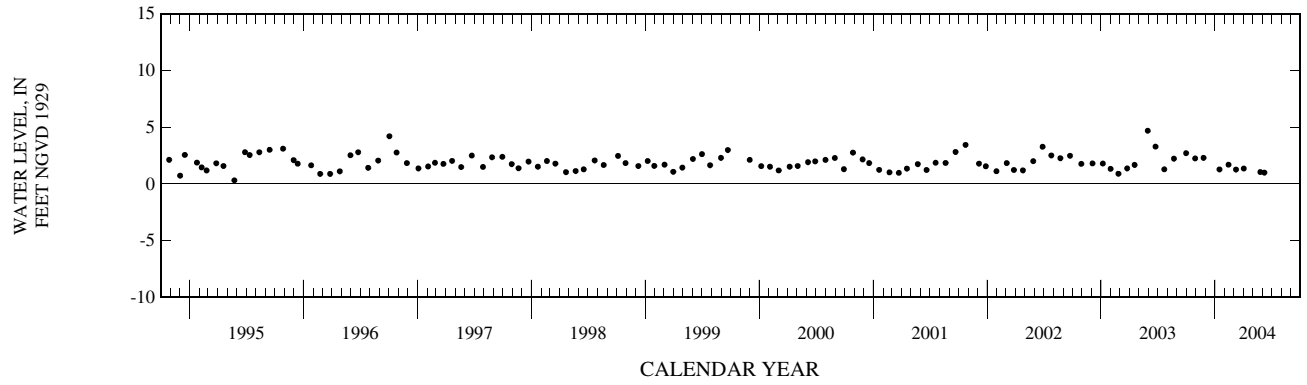
REMARKS.--Well also used for salinity monitoring, salinity monitoring began in May 1974. Measured well depth at 143.2 ft from top of casing on June 24, 2003. Well is filling with sand from the aquifer, but because the well is cased to 179 ft the samples collected are considered to be representative of the aquifer at this depth. On May 30, 2003, widespread flooding caused water levels around this well to be above the top of casing. Well was abandoned on June 7, 2004. This well has been abandoned and will be replaced for the 2005 water year with G-2957.

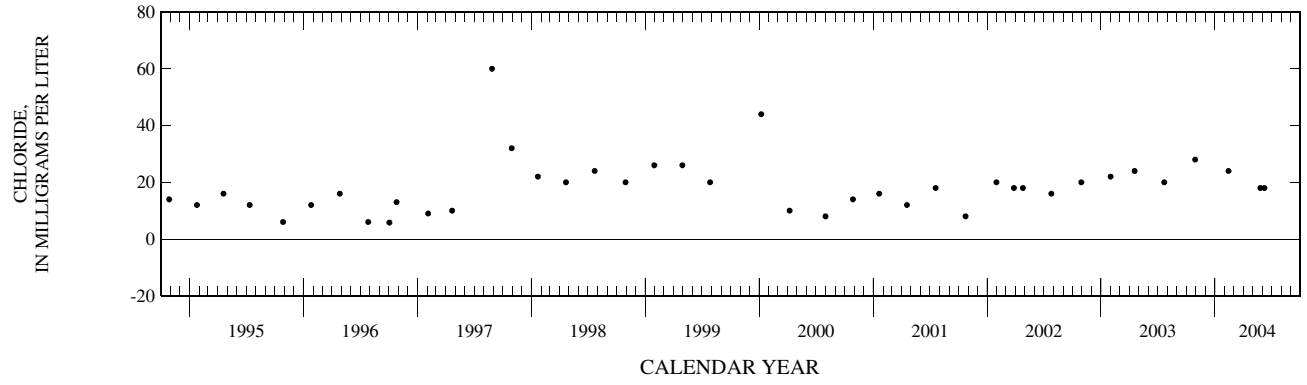
PERIOD OF RECORD.--May 1974 to July 1994 (intermittent), October 1994 to June 2004. Well abandoned and discontinued. See REMARKS.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, greater than 4.69 ft NGVD, May 30, 2003 (See REMARKS); lowest, 0.32 ft NGVD, May 24, 1995.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)	Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT					MAR				
29...	1011	2.25	401	28.0	08...	1450	1.27	--	--
NOV					APR				
25...	1025	2.30	--	--	02...	1045	1.36	--	--
JAN					MAY				
15...	0951	1.28	--	--	25...	1332	1.05	380	18.0
FEB					JUN				
13...	1227	1.70	452	24.0	07...	1202	1.00	407	18.0





BROWARD COUNTY—Continued

WELL NUMBER.--260545080082001. Local Number G 561. USGS Observation Well at Fort Lauderdale, FL.

LOCATION.--Lat 26°05'45", long 80°08'20", in NE ¼ SE ¼ SE ¼ sec.15, T.50 S., R.42 E., 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.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

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

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 11.40 ft above National Geodetic Vertical Datum of 1929. From March 1987 to October 2003, measuring point was considered to be top of base, 10.11 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. (Corrected). See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 8.5 ft above NGVD. (Corrected).

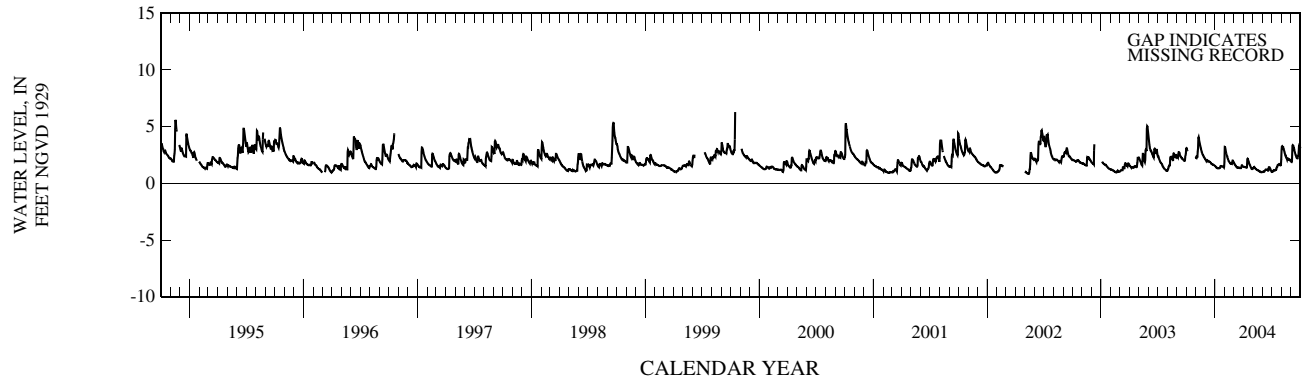
REMARKS.--On May 2003, it was noted that the casing of the well at land surface had corroded through and the well casing above land surface was unstable. The station was reconstructed in October 2003 to stabilize the well casing. A check of the measuring point elevation conducted prior to reconstruction 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. (Corrected). See DATUM and PERIOD OF RECORD.

PERIOD OF RECORD.--Febuary 1948 to current year. (Corrected).

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.

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	2.82	2.34	2.03	1.41	2.71	1.62	1.44	1.44	1.01	1.06	3.19	3.28
10	---	3.94	1.97	1.34	2.24	1.43	1.42	1.27	1.18	1.14	2.79	3.08
15	---	3.24	1.89	1.34	1.89	1.39	2.14	1.17	1.22	1.21	2.34	2.50
20	---	2.71	1.73	1.53	1.74	1.34	1.72	1.10	1.13	1.60	2.20	2.20
25	---	2.38	1.67	1.49	1.88	1.42	1.39	1.04	1.32	1.71	2.12	2.74
EOM	2.31	2.15	1.54	1.87	1.88	1.45	1.30	0.99	1.02	2.11	1.92	3.09
MAX	---	4.06	2.12	1.87	3.20	1.84	2.17	1.44	1.41	2.11	3.27	3.38



BROWARD COUNTY—Continued

WELL NUMBER.--260547080105801. Local Number G 2352. USGS Observation Well near Fort Lauderdale, FL.

LOCATION.--Lat 26°05'46", long 80°10'58" in SE $^1/_4$ NW $^1/_4$ SW $^1/_4$ sec.17, T.50 S., R.42 E., Hydrologic Unit 03090202, 200 ft south of intersection of SW 29th Avenue and SW 19th Court, on western side of SW 29th Avenue, 20 ft from street.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2.5 in., depth 171 ft, cased to 171 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 4.91 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 4.9 ft above NGVD.

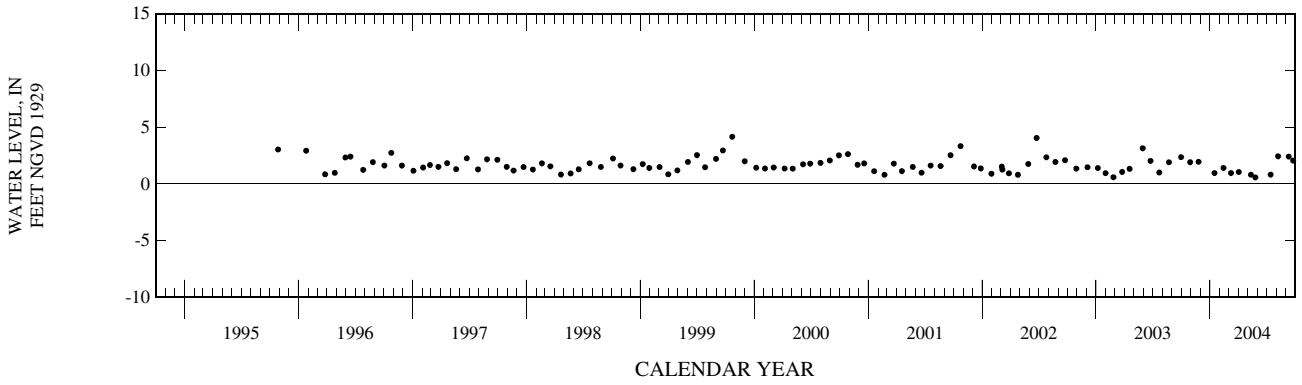
REMARKS.--Well also used for salinity monitoring since June 1981. Water level monitoring began in October 1995. See PERIOD OF RECORD.

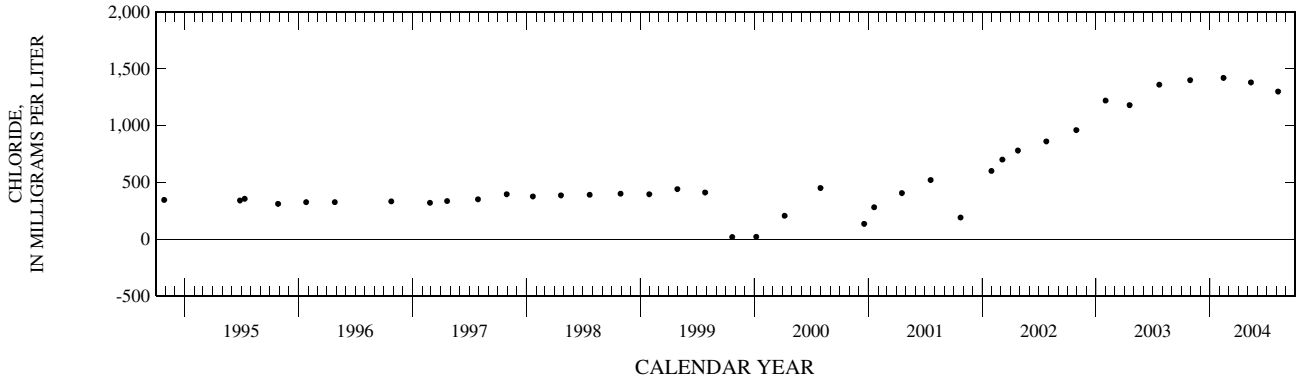
PERIOD OF RECORD.--June 1981 to September 1995 (intermittent), October 1995 to current year. See REMARKS.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.16 ft NGVD, Oct. 22, 1999; lowest, 0.58 ft NGVD, May 25, 2004.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
29...	0943	1.92	4,490	1,400
NOV				
25...	1127	1.95	--	--
JAN				
15...	1010	.96	--	--
FEB				
13...	1141	1.41	4,770	1,420
MAR				
08...	1436	.96	--	--
APR				
02...	1110	1.05	--	--
MAY				
11...	1250	.81	4,750	1,380
25...	1033	.58	--	--
JUL				
13...	1219	.82	--	--
AUG				
06...	1149	2.44	4,400	1,300
SEP				
09...	1242	2.41	--	--
23...	1245	2.06	--	--





BROWARD COUNTY-Continued

WELL NUMBER.--260638080104801. Local Number G 2902. USGS Observation Well near Melrose Park, FL.

LOCATION.--Lat 26°06'38", long 80°10'48", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 8, T.50 S., R.42 E., Hydrologic Unit 03090202, at Triangle Park near the southwest corner of SW 8th Street and SW 28th Avenue, 0.75 mi south of Broward Boulevard.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 2 in., depth 190 ft, cased to 180 ft, screened 180 to 190 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 7.03 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 7.0 ft above NGVD.

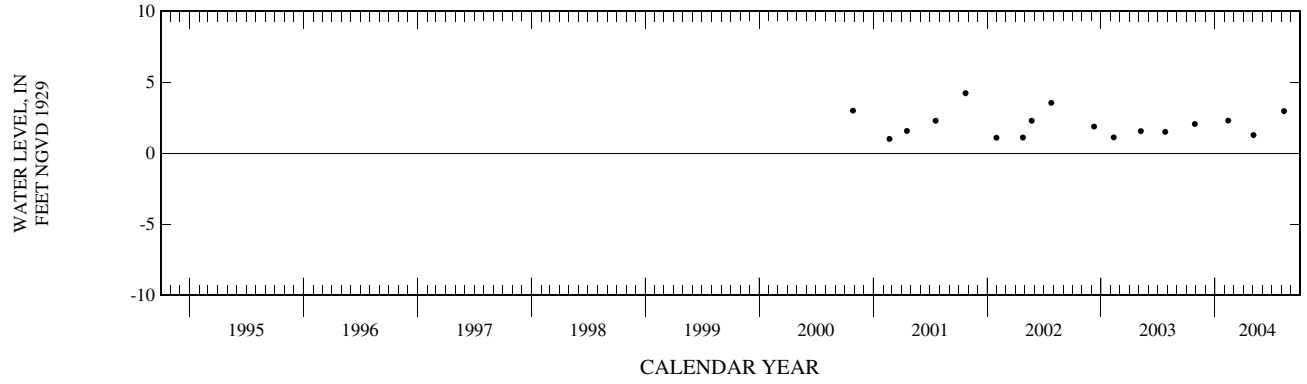
REMARKS.--Well is also used for salinity monitoring, including an annual induction log. Induction logs are used to assess movement of the fresh-water/salt-water interface in ground water. See EXPLANATION OF THE RECORDS SECTION, RECORDS OF BULK CONDUCTIVITY in the front of this book. A calibration error was found to have affected some of the historical bulk conductivity logs collected by an induction logger. Bulk conductivity logs prior to the 2002 water year had been calibrated to a standard of 1,301 mS/m. For these calibrations an internal setting limited the probe response to 1,000 mS/m. Data for the affected years was corrected by applying a 0.7686 multiplier. Induction logging began in April 2001.

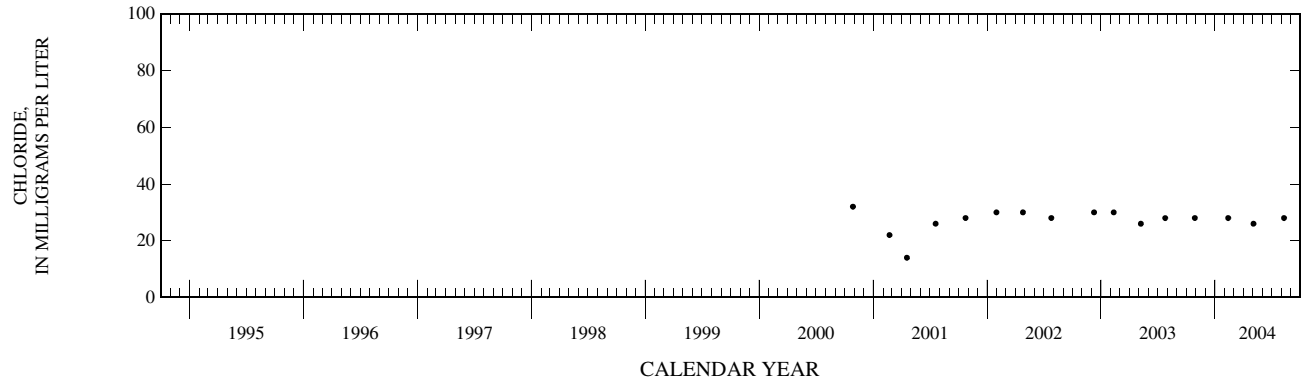
PERIOD OF RECORD.--October 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.23 ft NGVD, Oct. 23, 2001; lowest, 1.01 ft NGVD, Feb. 21, 2001.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

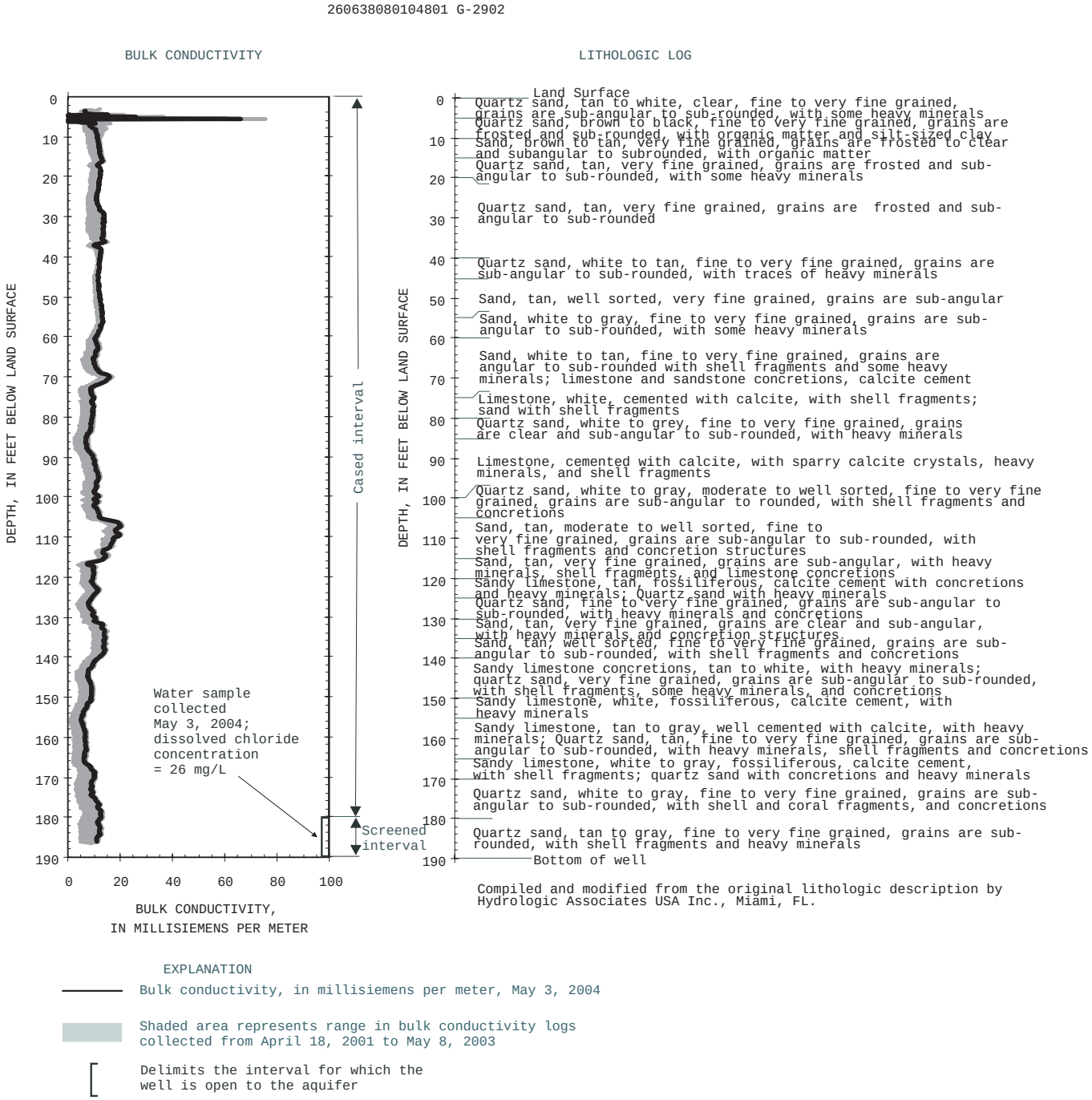
Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
28...	1402	2.06	501	28.0
FEB				
12...	1435	2.30	512	28.0
MAY				
03...	1310	1.28	521	26.0
AUG				
09...	1144	2.97	510	28.0





BROWARD COUNTY-Continued

WELL NUMBER.--260638080104801. Local Number G 2902. USGS Observation Well near Melrose Park, FL.-Continued



BROWARD COUNTY—Continued

WELL NUMBER.--260653080184901. Local Number G 2034. USGS Observation Well near Davie, FL.

LOCATION.--Lat 26°02'02", long 80°23'07", in NE $^1/_4$ SE $^1/_4$ sec.6, T.51 S., R.40 E., Hydrologic Unit 03090202, at SW 178th Avenue (Rolling Oaks Road) and SW 68th Court, 1.9 mi south of Griffin Road and east of Mathus Drive, 7.8 mi west of Davie.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 22 ft, cased to 21 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 9.44 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 6.3 ft above NGVD.

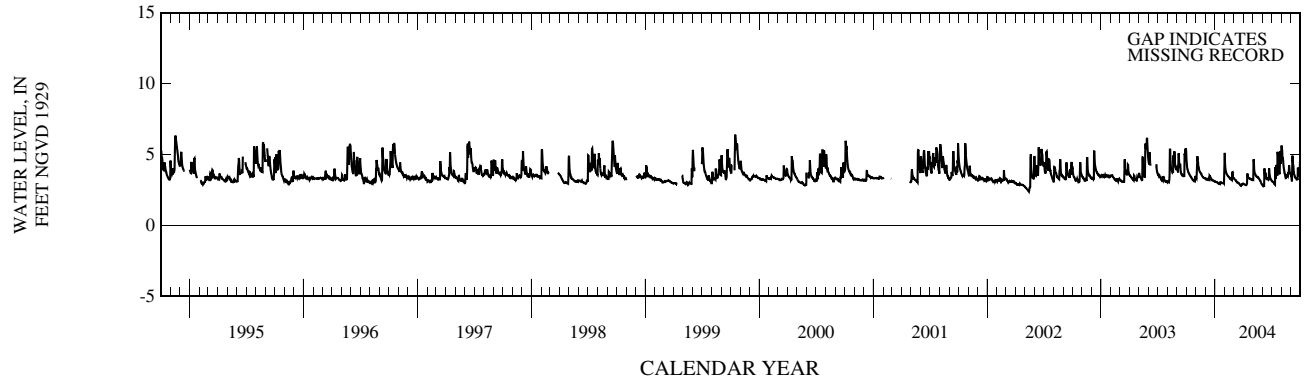
REMARKS.--Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--January 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 6.40 ft NGVD, Oct. 15, 1999; lowest, 1.49 ft NGVD, May 6, 1975.

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	3.95	4.88	3.24	3.07	3.76	3.23	2.88	3.91	2.78	3.07	4.79	4.92
10	3.63	3.98	3.30	3.00	3.52	3.11	2.85	3.56	3.44	2.90	3.77	3.65
15	3.44	3.72	3.48	2.94	3.40	3.00	3.42	3.41	3.29	4.27	3.33	3.35
20	3.25	3.50	3.26	3.04	3.27	2.89	3.33	3.32	3.21	4.98	3.50	3.28
25	3.13	3.37	3.17	2.99	3.74	2.84	3.25	3.13	3.42	3.64	4.26	3.80
EOM	3.36	3.32	3.10	3.93	3.35	2.95	3.24	2.87	3.17	5.29	3.53	4.47
MAX	4.62	4.88	3.51	3.93	5.12	3.33	3.66	4.66	4.04	5.29	5.64	4.92



BROWARD COUNTY—Continued

WELL NUMBER.--260657080122301. Local Number S 329. USGS Observation Well in Fort Lauderdale, FL.

LOCATION.--Lat 26°06'57", long 80°12'23", in SW $^1/_4$ NE $^1/_4$ sec.12, T.50 S., R.41 E., Hydrologic Unit 03090202, 200 ft south of SW 4th Street on west side of Country Club Circle, and 0.3 mi west of U.S. Highway 441. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, water-table well, diameter 4 in., depth 68 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 12.44 ft above National Geodetic Vertical Datum of 1929. From August 23, 1949 to September 30, 1997, measuring point was top of casing, 12.38 ft above NGVD. Prior to August 23, 1949, measuring point was 10.42 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 9.2 ft above NGVD.

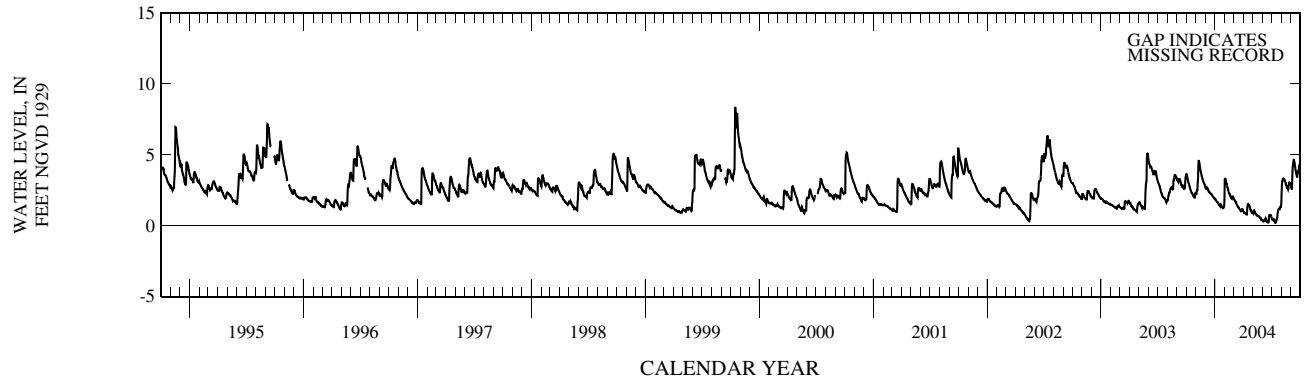
REMARKS.--Records of water levels prior to January 1957 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--September 1940 to current year. (Corrected).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 10.76 ft NGVD, Oct. 17, 1947; lowest, 1.26 ft below NGVD, May 2, 1975.

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	3.30	2.51	2.65	1.75	3.10	1.75	0.90	1.08	0.37	0.45	3.30	3.75
10	2.85	4.58	2.49	1.62	2.66	1.55	0.81	0.85	0.48	0.30	3.26	4.62
15	2.48	3.93	2.36	1.43	2.28	1.34	1.52	0.73	0.31	0.37	2.92	3.88
20	2.24	3.44	2.24	1.50	2.06	1.16	1.42	0.68	0.24	0.96	2.67	3.42
25	2.06	3.08	2.06	1.27	1.96	1.06	1.06	0.54	0.77	1.21	3.04	3.85
EOM	2.32	2.80	1.88	1.80	1.98	1.05	0.93	0.41	0.58	1.48	2.83	4.38
MAX	3.64	4.58	2.71	1.89	3.33	1.93	1.53	1.08	0.77	1.48	3.34	4.63



BROWARD COUNTY-Continued

WELL NUMBER.--260737080103302. Local Number G 2901R. USGS Observation Well near Fort Lauderdale, FL.

LOCATION.--Lat 26°07'38", long 80°10'33", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.5, T.50 S., R.42 E., Hydrologic Unit 03090202, 110 ft east of the west parking lot in Reverend Samuel Delevoe Park, southeast of the intersection of Sistrunk Boulevard and NW 27th Avenue.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 2 in., depth 205 ft, cased to 195 ft, screened 195 to 205 ft.

INSTRUMENTATION.--Quarterly measurement by chalked tape.

DATUM.--Measuring point: Top of casing, 4.45 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 4.4 ft above NGVD.

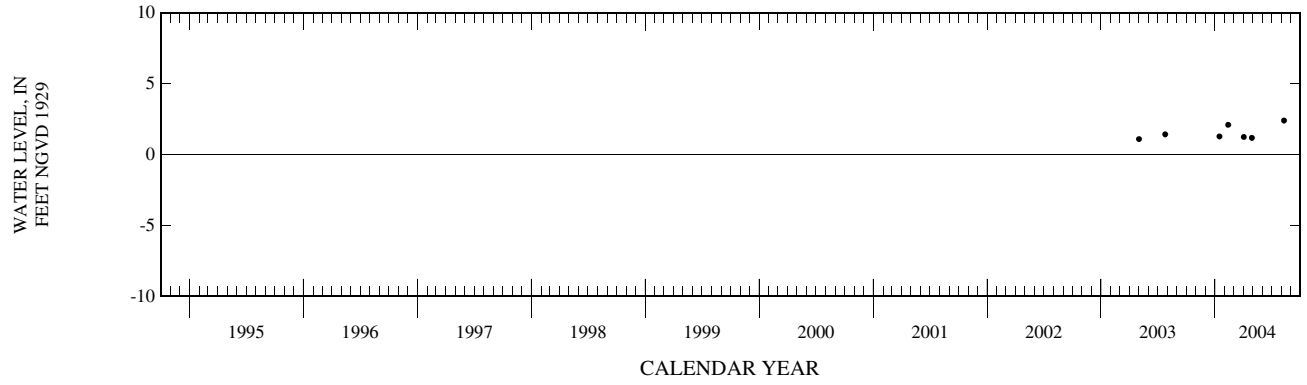
REMARKS.--G-2901R replaces G-2901, which had a separated casing and was 110 ft south-southwest of G-2901R. G-2901R can not be purged sufficiently for chloride-concentration sampling. Sampling was discontinued in January 2004. Induction logs are collected annually. Induction logs are used to assess the movement of the fresh-water/salt-water interface in ground water. See EXPLANATION OF THE RECORDS SECTION, RECORDS OF BULK CONDUCTIVITY in the front of this book. Metal well centralizers were installed during well construction. Metal objects interfere with probe operation when present.

PERIOD OF RECORD.--May 2003 to current year.

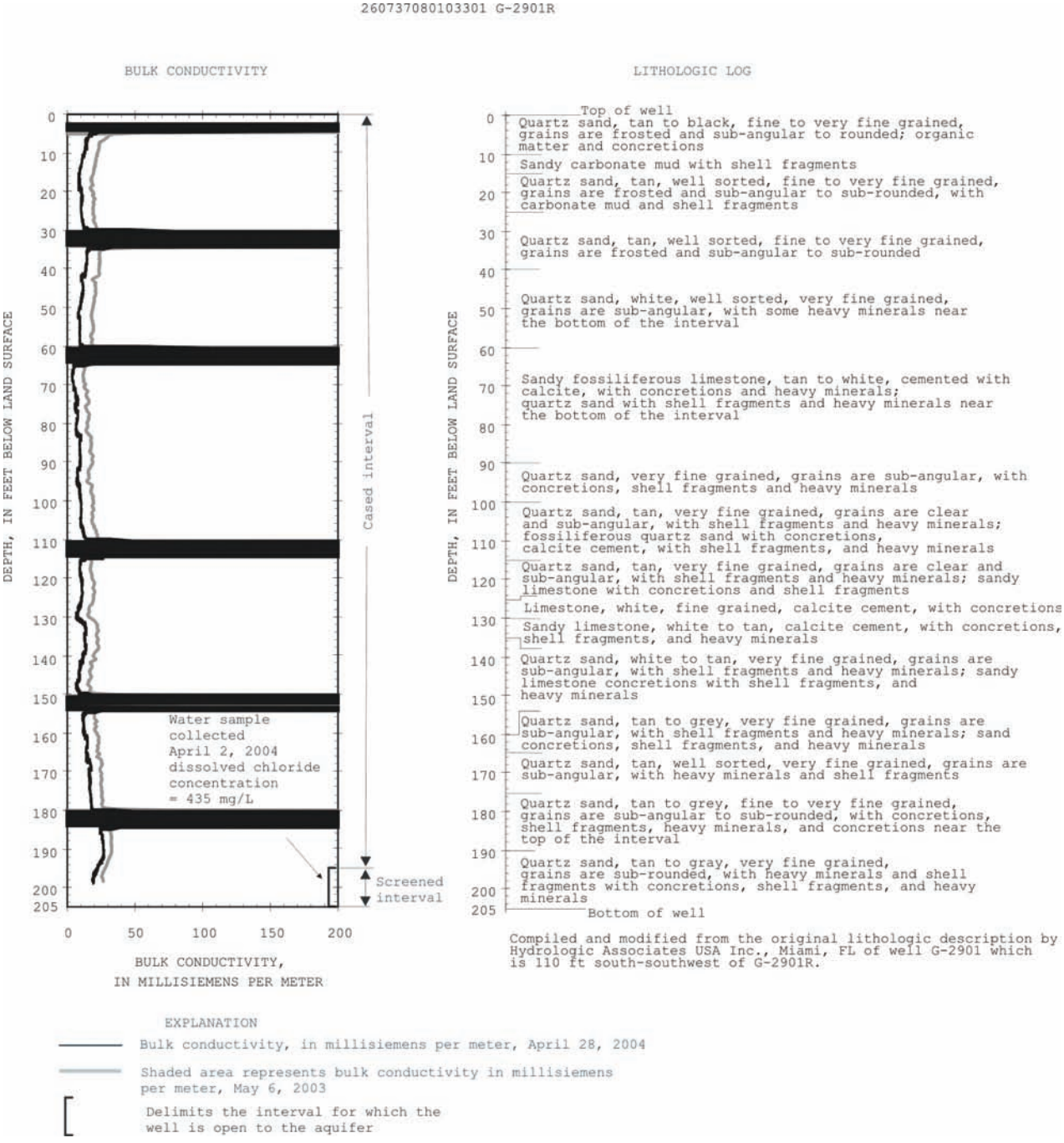
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.40 ft NGVD, Aug. 9, 2004; lowest, 1.09 ft NGVD, May 2, 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
JAN			APR		
15...	1050	1.28	02...	1129	1.24
FEB			28...	1430	1.18
12...	1420	2.10	AUG		
			09...	1107	2.40



WELL NUMBER.--260737080103302. Local Number G 2901R. USGS Observation Well near Fort Lauderdale, FL.-Continued



BROWARD COUNTY—Continued

WELL NUMBER.--260752080084701. Local Number G 1220. USGS Observation Well in Fort Lauderdale, FL.

LOCATION.--Lat 26°07'52", long 80°08'47", in SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.3, T.50 S., R.42 E., Hydrologic Unit 03090202. At corner of NW 2nd Avenue and NW 7th Street in Fort Lauderdale, and 0.8 mi west of U.S. Highway 1. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 5 in., depth 20 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 7.72 ft above National Geodetic Vertical Datum of 1929. From April 17, 2002 to September 30, 2002, top of base was incorrectly considered to be 7.78 ft above NGVD. From October 2000 to April 16, 2002, top of base was 7.77 ft above NGVD. From October 1997 to September 2000, top of base was incorrectly considered to be 7.78 ft above NGVD. From January 1989 to September 1997, top of base was incorrectly considered to be 7.76 ft above NGVD. From October 1980 to January 1989, measuring point was top of casing, 7.76 ft above NGVD. Prior to October 1980, measuring point, top of base, was considered to be 8.76 ft above NGVD. The figures of water level as elevation, in feet NGVD, from January 1989 to October 2000 and from April 17, 2002 to September 30, 2002, are in error. (Corrected). See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 7.0 ft above NGVD.

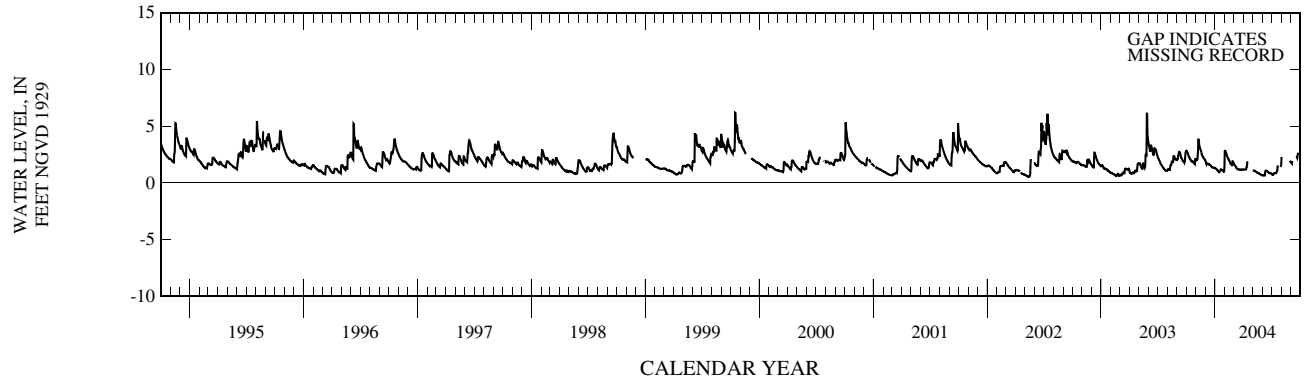
REMARKS.--Because of the 0.01 ft magnitude of error, the published figures of water levels as elevation, in feet NGVD, for January 1989 to September 2000 have been retained. The figures of water level as elevation, in feet NGVD, prior to October 1, 1980 are in error. A -1.00 ft correction has been applied to correct these water-level data. The figures of water level as elevation, in feet NGVD, from April 17, 2002 to September 30, 2002, are in error. A -0.03 ft correction has been applied to correct the data. Corrected records are in files of the U.S. Geological Survey. See DATUM. Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--December 1962 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 6.37 ft NGVD, Mar. 27, 1986; lowest, 0.40 ft NGVD, May 30, 1965.

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	2.66	2.10	1.63	1.23	2.69	1.50	1.18	1.09	0.66	0.73	---	---
10	2.26	3.58	1.67	1.06	2.26	1.30	1.36	1.01	1.05	0.86	---	---
15	2.01	2.99	1.60	0.99	1.97	1.19	---	0.92	1.07	0.88	---	---
20	1.92	2.47	1.46	1.20	1.68	1.18	---	0.85	0.93	1.51	---	2.21
25	1.75	2.22	1.37	1.08	1.64	1.15	---	0.77	0.88	---	---	2.68
EOM	2.10	2.00	1.31	1.38	1.77	1.20	---	0.68	0.78	1.66	1.83	3.26
MAX	2.83	3.81	1.95	1.38	2.83	1.71	---	1.11	1.08	---	---	---



BROWARD COUNTY—Continued

WELL NUMBER.--260804080092701. Local Number G 2899. USGS Observation Well near Fort Lauderdale, FL.

LOCATION.--Lat 26°08'05", long 80°09'38", in SW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.4, T.50 S., R.42 E., Hydrologic Unit 03090202, at southeast corner of Joseph Carter Center, 705 ft south of Sunrise Boulevard and 0.5 mi east of U.S. Interstate 95.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 125 ft, cased to 115 ft, screened 115 to 125 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape. See REMARKS.

DATUM.--Measuring point: Top of casing, 5.92 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 5.9 ft above NGVD.

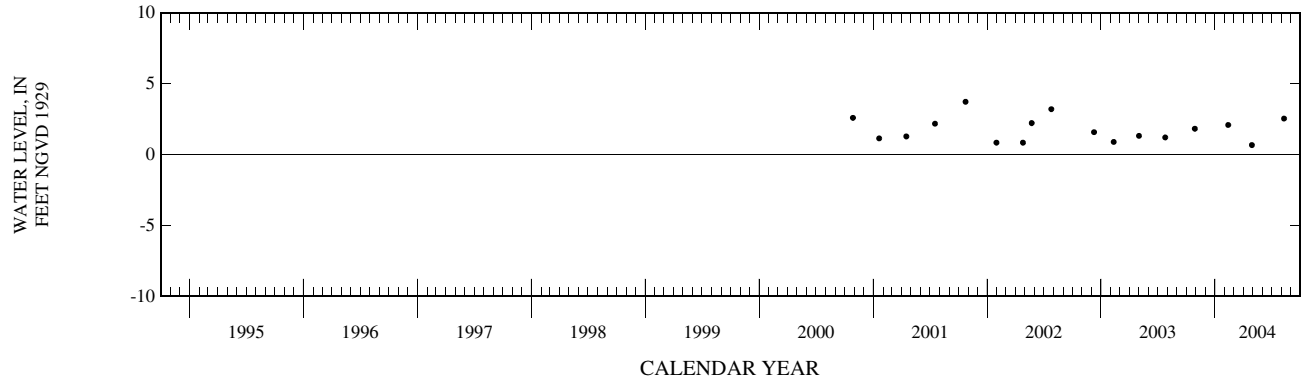
REMARKS.--Well is also used for salinity monitoring, including an annual induction log. Induction logs are used to assess the movement of fresh-water/salt-water interface in ground water. See EXPLANATION OF THE RECORDS SECTION, RECORDS OF BULK CONDUCTIVITY in front of this book. A calibration error was found to have affected some of the historical bulk conductivity logs collected by an induction logger. Bulk conductivity logs prior to the 2002 water year had been calibrated to a standard of 1,301 mS/m. For these calibrations an internal setting limited the probe response to 1,000 mS/m. Data for the affected years was corrected by applying a 0.7686 multiplier. Annual induction logging began in April 2000. Quarterly water-level measurements began in October 2000.

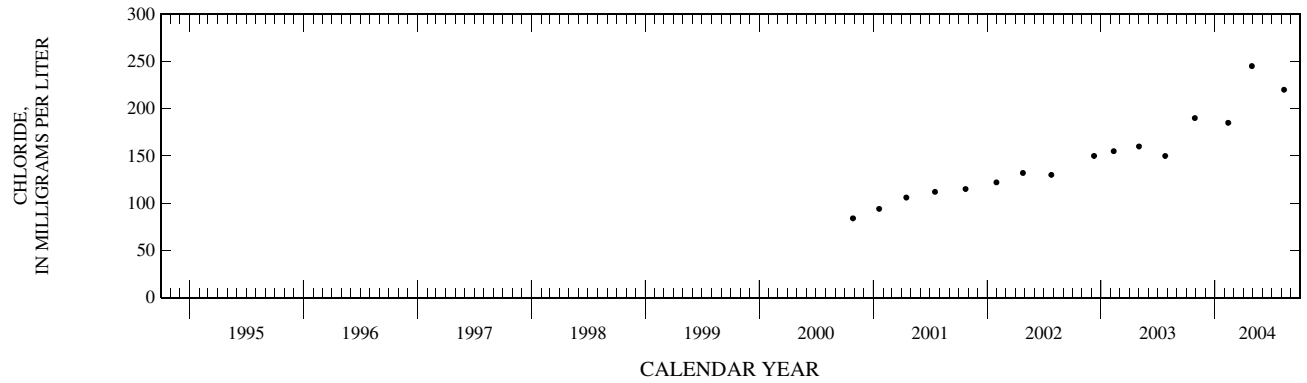
PERIOD OF RECORD.--April 2000 to current year. See REMARKS.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.72 ft NGVD, Oct. 23, 2001; lowest, 0.67 ft NGVD, Apr. 28, 2004.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

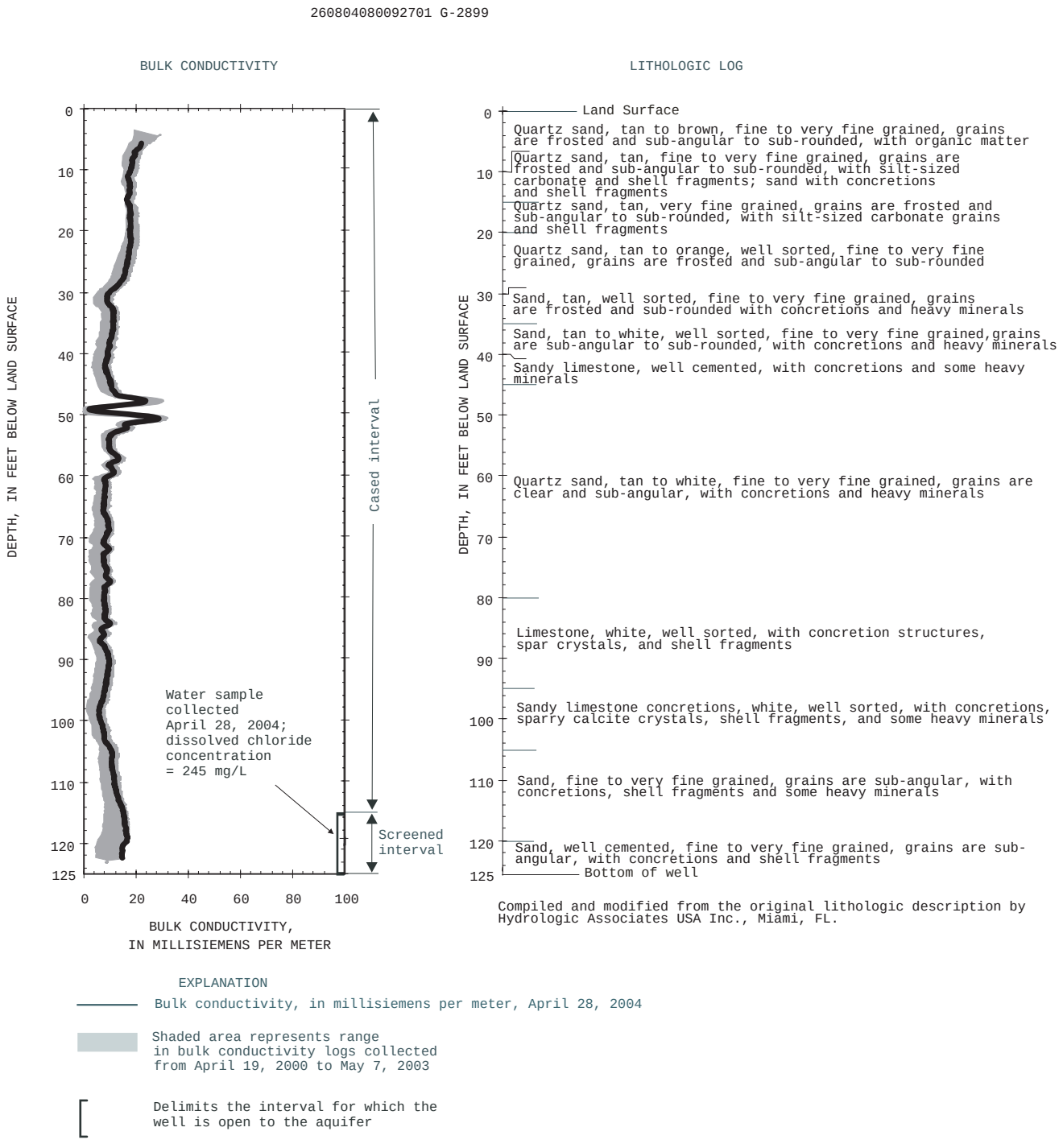
Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
28...	1257	1.82	918	190
FEB				
12...	0911	2.09	991	185
APR				
28...	1230	.67	1,070	245
AUG				
09...	0948	2.54	1,080	220





BROWARD COUNTY—Continued

WELL NUMBER.--260804080092701. Local Number G 2899. USGS Observation Well near Fort Lauderdale, FL.-Continued



Compiled and modified from the original lithologic description by Hydrologic Associates USA Inc., Miami, FL.

BROWARD COUNTY—Continued

WELL NUMBER.--260821080185101. Local Number G 2032. USGS Observation Well in Plantation, FL.

LOCATION.--Lat 26°08'21", long 80°18'51", in SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.36, T.49 S., R.40 E., Hydrologic Unit 03090202, at northeast corner of NW 12th Street and Flamingo Road, 1.6 mi north of North New River Canal. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 22 ft, cased to 21 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 8.79 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 6.6 ft above NGVD. (Corrected).

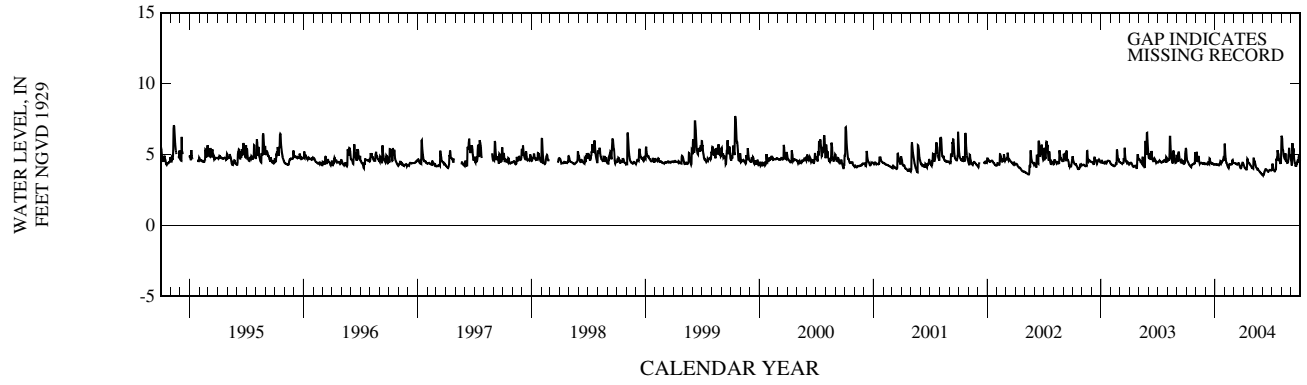
REMARKS.--Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--October 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.71 ft NGVD, Oct. 15, 1999; lowest, 2.85 ft NGVD, May 7, 1974.

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	4.53	4.71	4.35	4.32	4.52	4.40	4.08	4.53	3.59	4.05	5.32	5.80
10	4.29	4.63	4.45	4.29	4.20	4.33	3.96	4.23	3.95	3.82	4.75	4.75
15	4.14	4.41	4.71	4.35	4.30	4.39	4.52	3.98	3.90	4.70	4.56	4.23
20	4.31	4.38	4.38	4.47	4.33	4.19	4.37	3.88	3.79	5.17	4.44	4.45
25	4.36	4.37	4.33	4.56	4.60	4.09	4.19	3.73	3.92	4.56	5.48	4.79
EOM	4.78	4.37	4.29	4.93	4.42	4.39	4.04	3.60	3.89	5.23	4.62	4.63
MAX	5.17	5.19	4.73	4.93	5.77	4.43	4.70	4.72	3.97	5.31	6.32	5.80



BROWARD COUNTY—Continued

WELL NUMBER.--260920080092201. Local Number G 2898. USGS Observation Well near Fort Lauderdale, FL.

LOCATION.--Lat 26°09'20", long 80°09'22", in NE $^1/_4$ SE $^1/_4$ sec.28, T.49 S., R.42 E., Hydrologic Unit 03090202, 0.55 mi south of Oakland Park Boulevard (State Road 816), 0.01 mi west of Powerline Road (State Road 845) at entrance to Mills Pond Park, 27 ft east of parking lot. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 119.5 ft cased to 109.5 ft. See REMARKS.

INSTRUMENTATION.--Monthly measurement with chalk tape. See REMARKS.

DATUM.--Measuring point: Top of casing, 5.21 ft above National Geodetic Vertical Datum of 1929. Between February 21, 2001 and June 4, 2002, measuring point was top of base, 8.35 ft above NGVD. During this period, measuring point was incorrectly considered to be 8.43 ft above NGVD (also incorrectly reported as 8.44 ft above NGVD in the 2002 Water Resources Data Report). From July 24, 2002 to January 30, 2003, and prior to February 21, 2001, measuring point was incorrectly considered to be 5.20 ft NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 5.2 ft above NGVD.

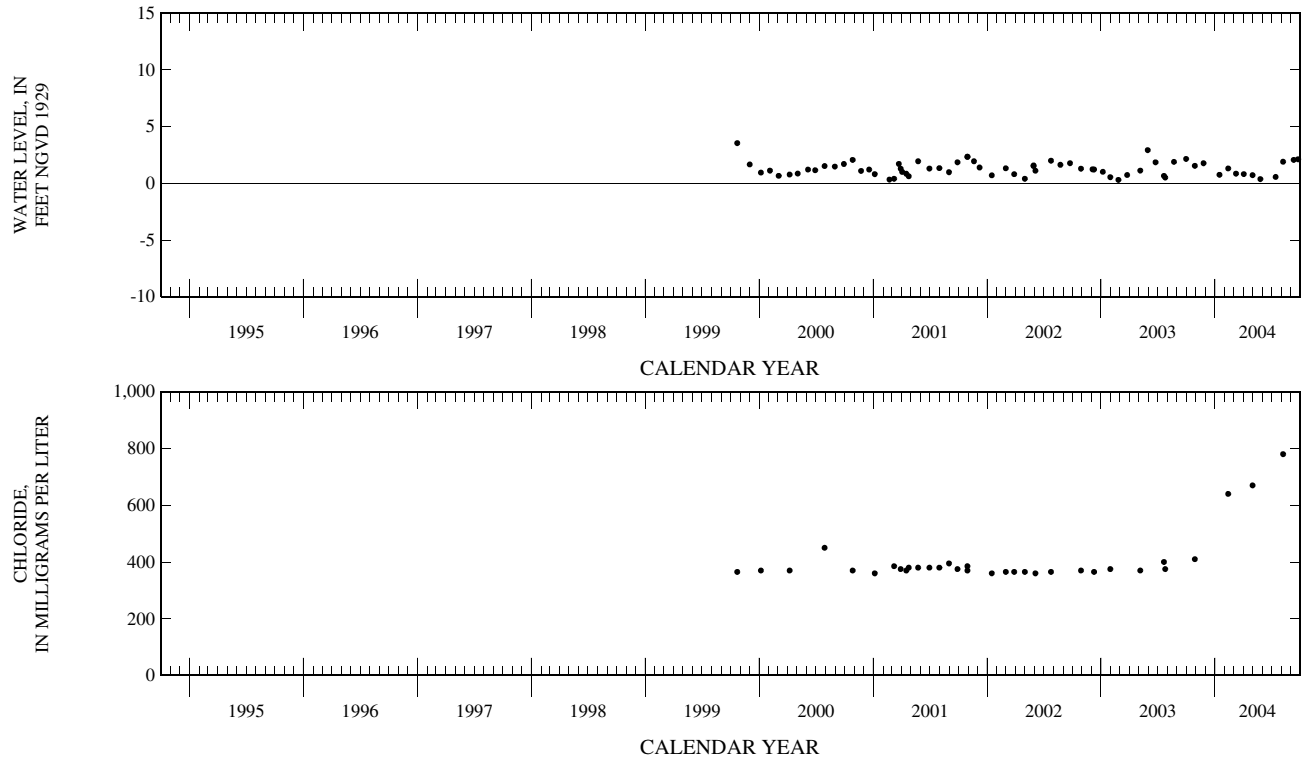
REMARKS--Well is also used for salinity monitoring, including an annual induction log. Induction logs are used to assess the movement of the fresh-water/salt-water interface in ground water. See EXPLANATION OF THE RECORDS SECTION, RECORDS OF BULK CONDUCTIVITY in the front of this book. A calibration error was found to have affected some of the historical bulk conductivity logs collected by an induction logger. Bulk conductivity logs prior to the 2002 water year had been calibrated to a standard of 1,301 mS/m. For these calibrations an internal setting limited the probe response to 1,000 mS/m. Data for the affected years was corrected by applying a 0.7686 multiplier. The station was temporarily reconstructed between February 21, 2001 and June 4, 2002, to facilitate continuous water-level and conductivity monitoring. The figures of water level as elevation, in feet NGVD, from October 1999 to January 2003 are in error. Corrected records are in the files of the U.S. Geological Survey. Well depth corrected based on reevaluation of construction records and on the depth sounding collected May 6, 2003. See DATUM and WELL CHARACTERISTICS.

PERIOD OF RECORD.--October 1999 to January 2001 (monthly), February 2001 to June 2002 (monthly and daily), July 2002 to current year. See REMARKS.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 4.25 ft NGVD, Sept. 29, 2001; lowest daily maximum water level, 0.30 ft NGVD, May 8, 2002, and lowest measured, Feb. 25, 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

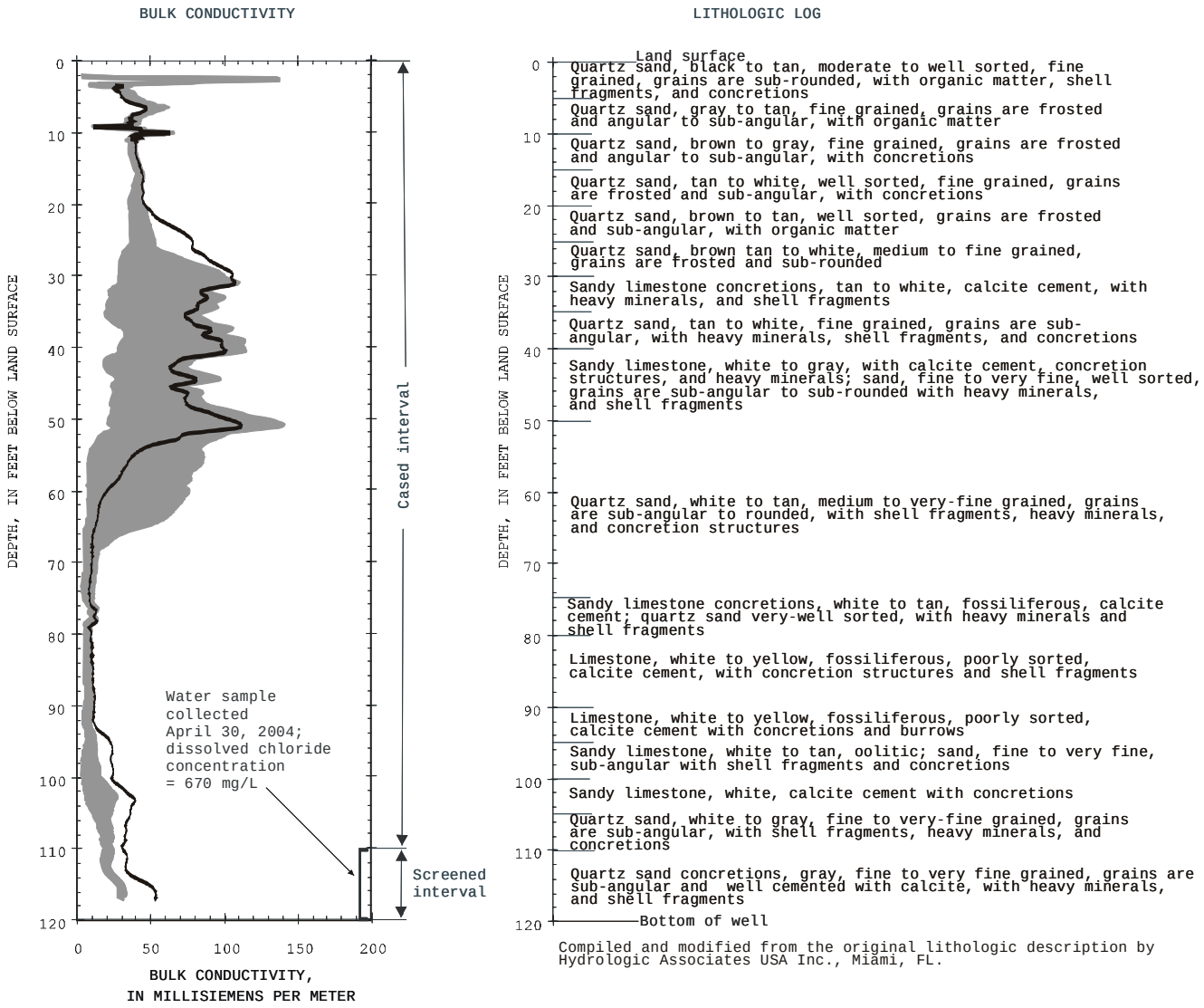
Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
28...	1229	1.54	1,630	410
NOV				
25...	0953	1.77	--	--
JAN				
15...	1120	.75	--	--
FEB				
12...	0950	1.31	2,500	640
MAR				
08...	1410	.85	--	--
APR				
02...	1312	.81	--	--
30...	1508	.72	2,690	670
MAY				
25...	0945	.37	--	--
JUL				
13...	1136	.56	--	--
AUG				
06...	1246	1.90	2,920	780
SEP				
09...	1320	2.06	--	--
23...	1430	2.12	--	--



BROWARD COUNTY—Continued

WELL NUMBER.--260920080092201. Local Number G 2898. USGS Observation Well near Fort Lauderdale, FL.-Continued

260920080092201 G-2898



Compiled and modified from the original lithologic description by Hydrologic Associates USA Inc., Miami, FL.

EXPLANATION

Bulk conductivity, in millisiemens per meter, April 30, 2004

Shaded area represents range in bulk conductivity logs collected from April 19, 2000 to May 6, 2003

[Delimits the interval for which the well is open to the aquifer

BROWARD COUNTY—Continued

WELL NUMBER.--261030080083301. Local Number G 2897. USGS Observation Well near Oakland Park, FL.

LOCATION.--Lat 26°10'30", long 80°08'33", in SW $^1/_4$ SE $^1/_4$ NE $^1/_4$ sec.22, T.49 S., R.42 E., Hydrologic Unit 03090202, 16 ft from edge of NE 3rd Avenue parking lot at Collins Community Center.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 2 in., depth 135.5 ft, cased to 125.5 ft, screened 125.5 to 135.5 ft.

INSTRUMENTATION.--Quarterly measurements with chalked tape. See REMARKS.

DATUM.--Measuring point: Top of casing, 6.42 ft above National Geodetic Vertical Datum of 1929. Prior to February 2001, measuring point was 6.31 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 6.4 ft above NGVD.

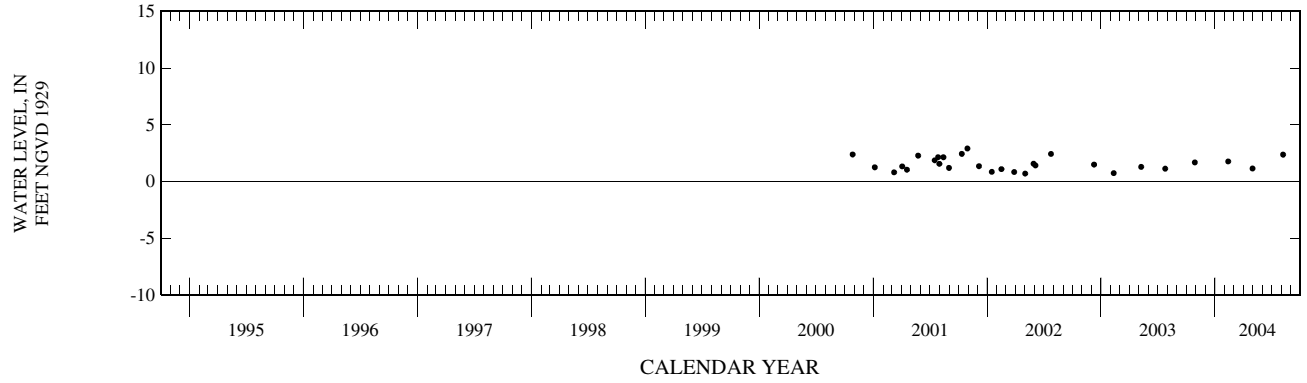
REMARKS.--Well is also used for salinity monitoring, including an annual induction log. Induction logs are used to assess the movement of the fresh-water/salt-water interface in ground water. See EXPLANATION OF THE RECORDS SECTION, RECORDS OF BULK CONDUCTIVITY in the front of the book. A calibration error was found to have affected some of the historical bulk conductivity logs collected by an induction logger. Bulk conductivity logs prior to the 2002 water year had been calibrated to a standard of 1,301 mS/m. For these calibrations an internal setting limited the probe response to 1,000 mS/m. Data for the affected years was corrected by applying a 0.7686 multiplier. Station was reconstructed in February 2001, for a salt water intrusion modeling project. Quarterly water-level measurements began in October, 2000. Continuous water-level and conductivity data were collected from March, 2001 through June 2002, as part of an investigative project. Data are available in the files of the U.S. Geological Survey.

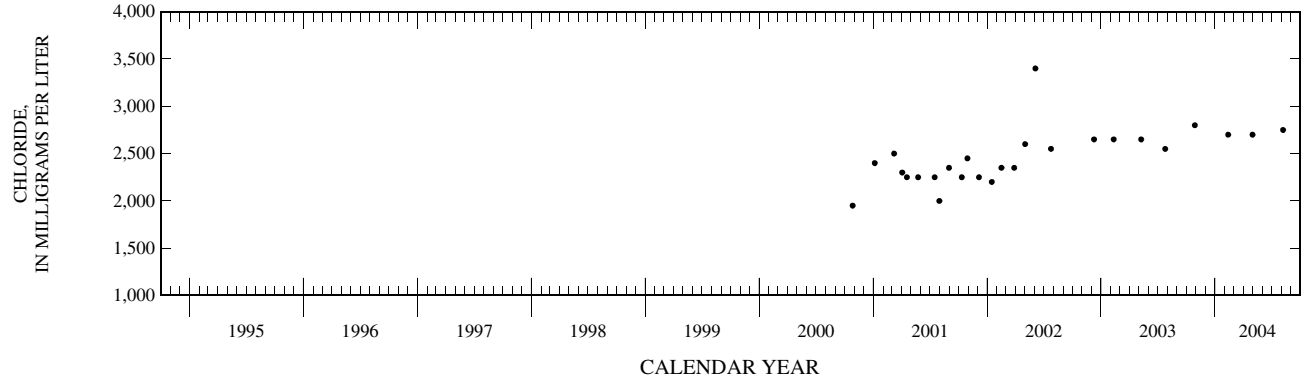
PERIOD OF RECORD.--April 2000 to current year. See REMARKS.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 3.81 ft NGVD, Sept. 14, 2001; lowest, 0.53 ft NGVD, May 6-11, 2002.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
28...	1205	1.69	8,240	2,800
FEB				
12...	1128	1.78	8,360	2,700
APR				
30...	1313	1.16	8,480	2,700
AUG				
06...	1325	2.38	8,340	2,750





BROWARD COUNTY—Continued

WELL NUMBER.--261030080083301. Local Number G 2897. USGS Observation Well near Oakland Park, FL.-Continued



BROWARD COUNTY—Continued

WELL NUMBER.--261100080140401. Local Number G 1212. USGS Observation Well near Fort Lauderdale, FL.

LOCATION.--Lat 26°10'59", long 80°09'04", in SW ¼ SE ¼ NW ¼ sec.15, T.49 S., R.42 E., Hydrologic Unit 03090202, at the northeast intersection of NW 46th Street and NW 5th Avenue.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2.5 in., depth 197.4 ft, cased to 197.4 ft. (Corrected).

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 7.32 ft above National Geodetic Vertical Datum of 1929.

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

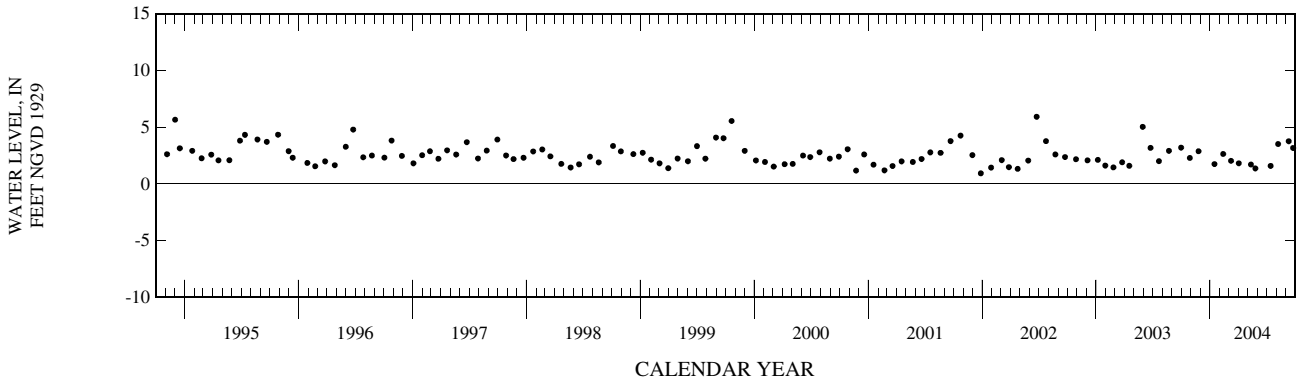
REMARKS.--Well also used for salinity monitoring. Salinity monitoring began in April 1967. Water-level monitoring began in October 1979.

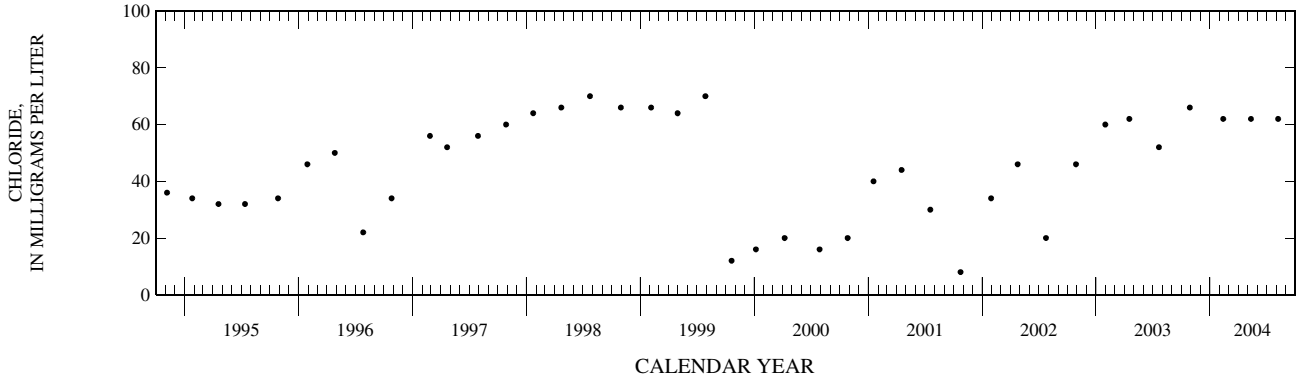
PERIOD OF RECORD.--October 1979 (intermittent), November 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.92 ft NGVD, June 24, 2002 (corrected); lowest, 0.94 ft NGVD, Dec. 27, 2001.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
28...	1143	2.29	485	66.0
NOV				
25...	0920	2.88	--	--
JAN				
15...	1146	1.75	--	--
FEB				
12...	1151	2.64	519	62.0
MAR				
08...	1353	2.04	--	--
APR				
02...	1322	1.82	--	--
MAY				
11...	1035	1.71	526	62.0
25...	1041	1.37	--	--
JUL				
13...	1110	1.59	--	--
AUG				
06...	1343	3.52	517	62.0
SEP				
09...	1320	3.76	--	--
23...	1308	3.17	--	--





BROWARD COUNTY—Continued

WELL NUMBER.--261122080083401. Local Number G 1232. USGS Observation Well in Fort Lauderdale, FL.

LOCATION.--Lat 26°11'21", long 80°08'49", in SE $^1/_4$ SW $^1/_4$ NE $^1/_4$ sec.15, T.49 S., R.42 E., Hydrologic Unit 03090202, 30 ft northwest from intersection at NE 1st Avenue and NE 51st Street in Brentwood Estates.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation water-table well, diameter 2 in., depth 205 ft, cased to 203 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 8.31 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 8.3 ft above NGVD.

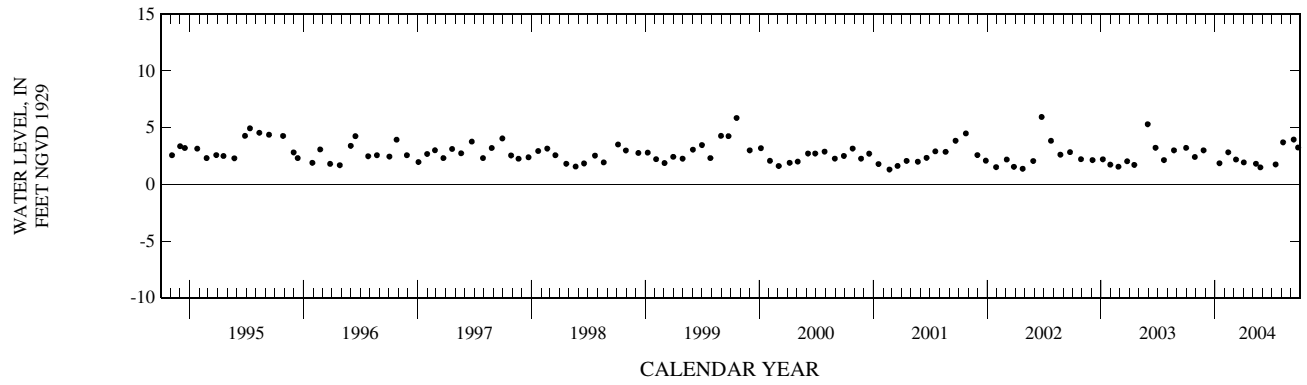
REMARKS.--Well also used for salinity monitoring. Salinity monitoring began in April 1964. Water-level monitoring began in November 1994. See PERIOD OF RECORD.

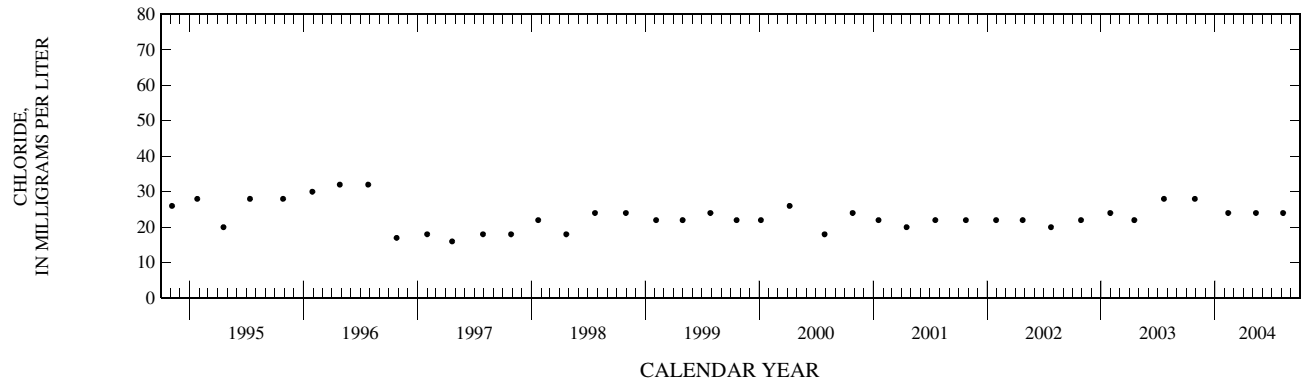
PERIOD OF RECORD.--April 1964 to September 1994 (intermittent), November 1994 to current year. See REMARKS.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.93 ft NGVD, June 24, 2002; lowest, 1.30 ft NGVD, Feb. 21, 2001.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
28...	1106	2.41	384	28.0
NOV				
25...	0910	2.99	--	--
JAN				
15...	1231	1.85	--	--
FEB				
12...	1225	2.82	405	24.0
MAR				
08...	1337	2.18	--	--
APR				
02...	1355	1.93	--	--
MAY				
11...	0934	1.81	410	24.0
25...	1031	1.49	--	--
JUL				
13...	1050	1.75	--	--
AUG				
06...	1417	3.70	403	24.0
SEP				
09...	1339	3.94	--	--
23...	1326	3.24	--	--





BROWARD COUNTY—Continued

WELL NUMBER.--261141080163401. Local Number G 2033. USGS Observation Well in Tamarac, FL.

LOCATION.--Lat 26°11'41", long 80°16'34", in SW ¼ SW ¼ SE ¼ sec.8, T.49 S., R.41 E., Hydrologic Unit 03090202, on east side of NW 94th Avenue, 0.1 mi north of Commercial Boulevard, 5.0 mi west of U.S. Highway 441, and 11.0 mi west of Pompano Beach.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 23 ft, cased to 21 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 13.06 ft above National Geodetic Vertical Datum of 1929. Prior to October 1, 1986, top of base was considered to be 14.29 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 11.0 ft above NGVD.

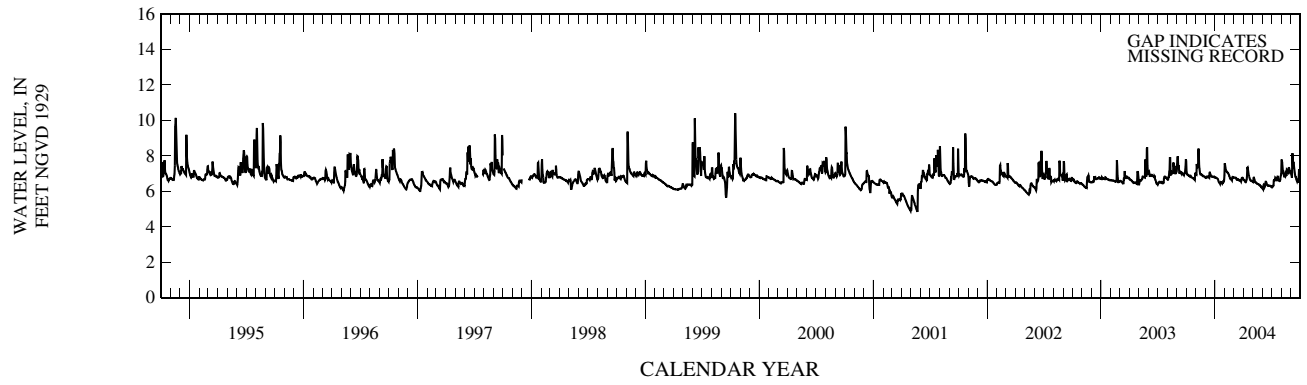
REMARKS.--The figures of water levels as elevation, in feet NGVD, prior to October 1, 1986 are in error. Corrected records are in the files of the U.S. Geological Survey. See DATUM. Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey. The well was originally open to the aquifer from 21 to 23 ft. The well casing has collapsed or become obstructed at a depth of 10 ft. The well is still in hydrologic communication with the aquifer. (Corrected).

PERIOD OF RECORD.--January 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 10.41 ft NGVD, Oct. 15, 1999; lowest, 4.85 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	6.95	7.37	6.82	6.77	7.19	6.78	6.59	6.73	6.37	6.32	7.18	8.15
10	6.87	7.66	6.83	6.70	7.05	6.67	6.63	6.52	6.48	6.63	6.84	7.38
15	6.85	6.96	7.06	6.47	6.87	6.69	7.24	6.42	6.39	6.64	6.89	6.81
20	6.76	6.93	6.85	6.51	6.69	6.62	6.80	6.39	6.32	6.83	7.08	6.54
25	6.70	6.85	6.82	6.47	6.77	6.64	6.60	6.31	6.32	6.59	7.32	6.76
EOM	6.98	6.79	6.78	6.91	6.80	6.70	6.57	6.18	6.27	7.01	7.03	7.18
MAX	7.16	8.37	7.06	6.91	7.58	6.79	7.36	6.77	6.54	7.01	7.75	8.15



BROWARD COUNTY—Continued

WELL NUMBER.--261143080082901. Local Number G 1340. USGS Observation Well in Fort Lauderdale, FL.

LOCATION.--Lat 26°11'43", long 80°08'29", NE ¼ NE ¼ NW ¼ sec.15, T.49 S., R.42 E., Hydrologic Unit 03090902, on northwest corner of NE 55th Street and NE 4th Avenue in Brentwood Estates.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 217 ft, cased to 214 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.-- Measuring point: Top of casing, 6.63 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 6.6 ft above NGVD.

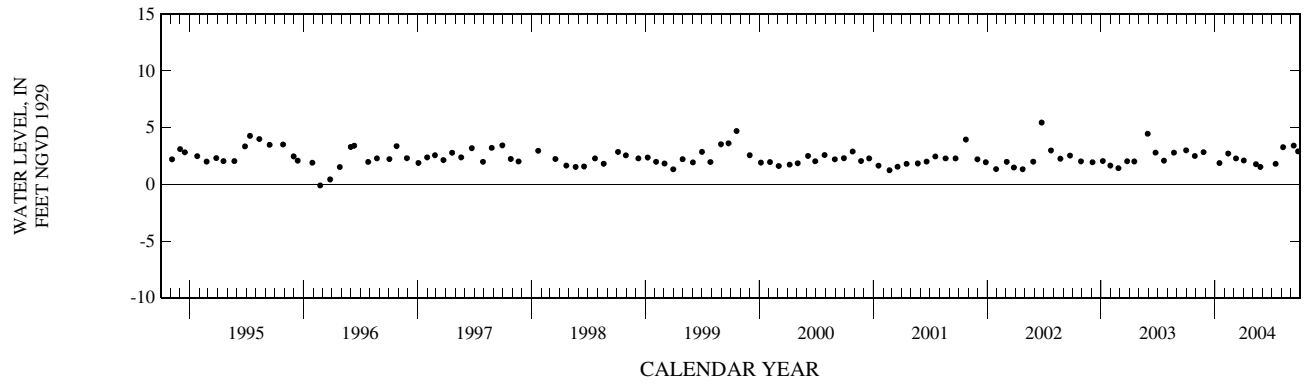
REMARKS.--Well was also used for salinity monitoring since 1968. Water level monitoring began in November 1994. The casing of the well has been found to have separated at a depth of 12.8 ft therefore monitoring at this well was discontinued in September 2004.

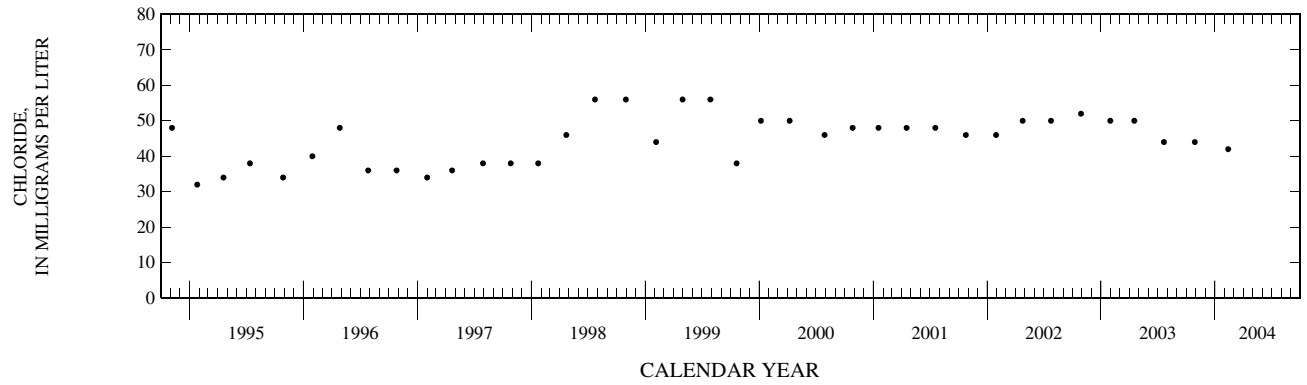
PERIOD OF RECORD.--February 1968 to July 1994 (intermittent), November 1994 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.44 ft NGVD, June 24, 2002; lowest, 0.10 ft below NGVD, Feb. 23, 1996.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
28...	1013	2.49	533	44.0
NOV				
25...	0855	2.83	--	--
JAN				
15...	1245	1.87	--	--
FEB				
12...	1255	2.71	538	42.0
MAR				
08...	1345	2.28	--	--
APR				
02...	1403	2.10	--	--
MAY				
11...	1142	1.77	--	--
25...	0920	1.53	--	--
JUL				
13...	1057	1.80	--	--
AUG				
06...	1446	3.27	--	--
SEP				
09...	1350	3.41	--	--
23...	1341	2.90	--	--





BROWARD COUNTY—Continued

WELL NUMBER.--261147080114501. Local Number G 2395. USGS Observation Well near Lauderdale Lakes, FL.

LOCATION.--Lat 26°11'47", long 80°11'45", in SE ¼ SE ¼ SW ¼ sec.7, T.49 S., R.42 E., Hydrologic Unit 03090202, on the west side of Hawkins Road, 0.25 mi north of Prospect Road and 0.75 mi east of U.S. Highway 441.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2.5 in., depth 73.0 ft, cased to 71 ft.

INSTRUMENTATION.--Electronic data logger with pressure transducer.

DATUM.--Measuring point: Top of shelter base, 12.47 ft above National Geodetic Vertical Datum of 1929. Prior to November 23, 1990, top of base was 12.05 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 9.5 ft above NGVD.

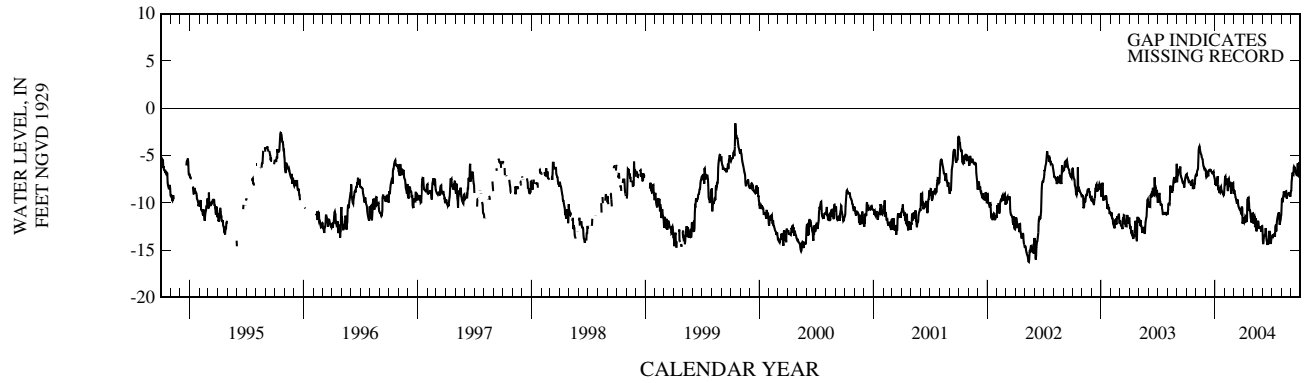
REMARKS.--The well was originally open to the aquifer from 71 to 73 ft. The casing has become obstructed or collapsed at a depth of 66 ft. Well was damaged and reconstructed November 23, 1990. (Corrected).

PERIOD OF RECORD.--February 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 0.82 ft below NGVD, Sept. 20, 1985; lowest, 16.25 ft below NGVD, May 14, 2002.

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	-7.38	-6.58	-7.24	-8.14	-7.98	-9.12	-11.99	-11.49	-13.70	-13.52	-9.93	-6.87
10	-7.73	-4.18	-7.19	-8.08	-8.62	-9.85	-11.97	-11.71	-12.97	-13.45	-8.97	-6.16
15	-8.08	-4.64	-6.49	-8.82	-7.78	-10.20	-9.48	-12.46	-14.12	-13.02	-8.80	-6.73
20	-7.63	-5.25	-6.69	-8.31	-8.01	-10.72	-10.87	-12.56	-14.30	-11.38	-9.18	-7.15
25	-8.45	-6.17	-6.85	-8.97	-8.28	-11.17	-11.75	-12.67	-13.20	-11.93	-8.95	-7.19
EOM	-7.06	-6.40	-7.44	-8.39	-8.69	-11.71	-11.13	-12.47	-13.61	-11.36	-8.75	-7.09
MAX	-6.94	-4.05	-6.44	-7.20	-7.19	-8.71	-9.45	-11.12	-12.65	-11.00	-8.73	-5.72



BROWARD COUNTY—Continued

WELL NUMBER.--261304080072501. Local Number G 2896. USGS Observation Well near Pompano Beach, FL.

LOCATION.--Lat 26°13'04", long 80°07'26", in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 2, T.49 S., R.42 E., Hydrologic Unit 03090202, at southwest corner of intersection of Cypress Road South and SW 9th Street, 56.5 ft southwest of the fire hydrant.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 2 in., depth 100.5 ft, cased to 90.5 ft, screened 90.5 to 100.5 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape. See REMARKS.

DATUM.--Measuring point: Top of casing, 6.79 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 6.8 ft above NGVD.

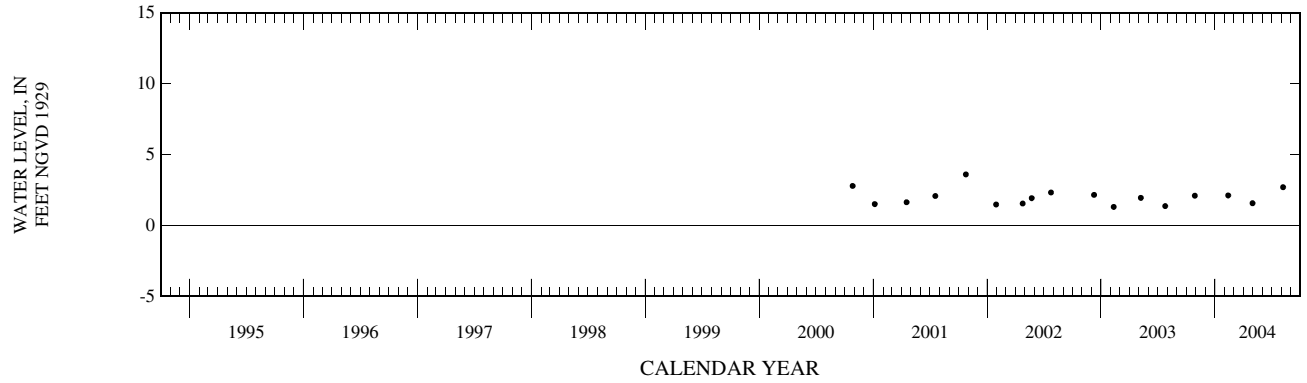
REMARKS.--Well is also monitored for salinity, including an annual induction log. Induction logs are used to assess the movement of the fresh-water/salt-water interface in ground water. See EXPLANATION OF THE RECORDS SECTION, RECORDS OF BULK CONDUCTIVITY in the front of the book. A calibration error was found to have affected some of the historical bulk conductivity logs collected by an induction logger. Bulk conductivity logs prior to the 2002 water year had been calibrated to a standard of 1,301 mS/m. For these calibrations an internal setting limited the probe response to 1,000 mS/m. Data for the affected years was corrected by applying a 0.7686 multiplier. Induction logging began in April 2000. Quarterly water-level measurements and salinity monitoring began in October 2000.

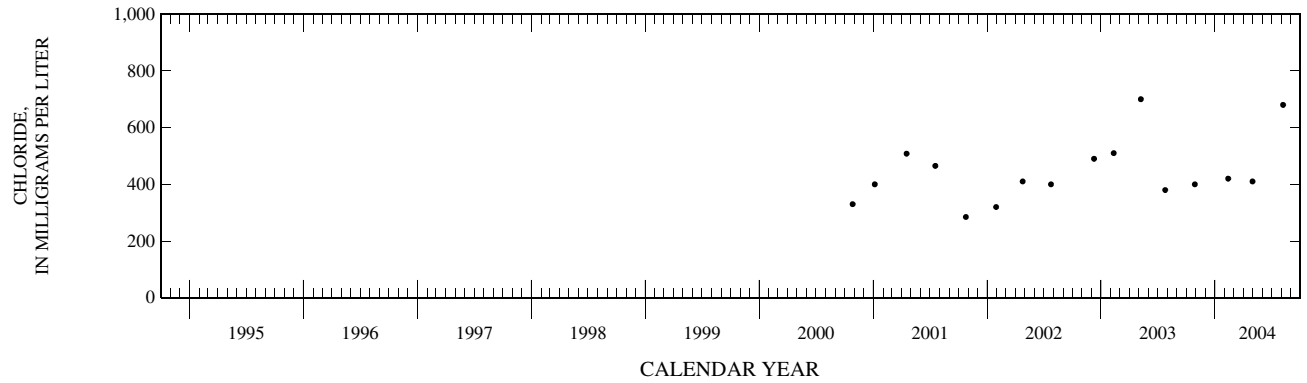
PERIOD OF RECORD.--April 2000 to current year. See REMARKS.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.60 ft NGVD, Oct. 24, 2001; lowest, 1.31 ft NGVD, Feb. 10, 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

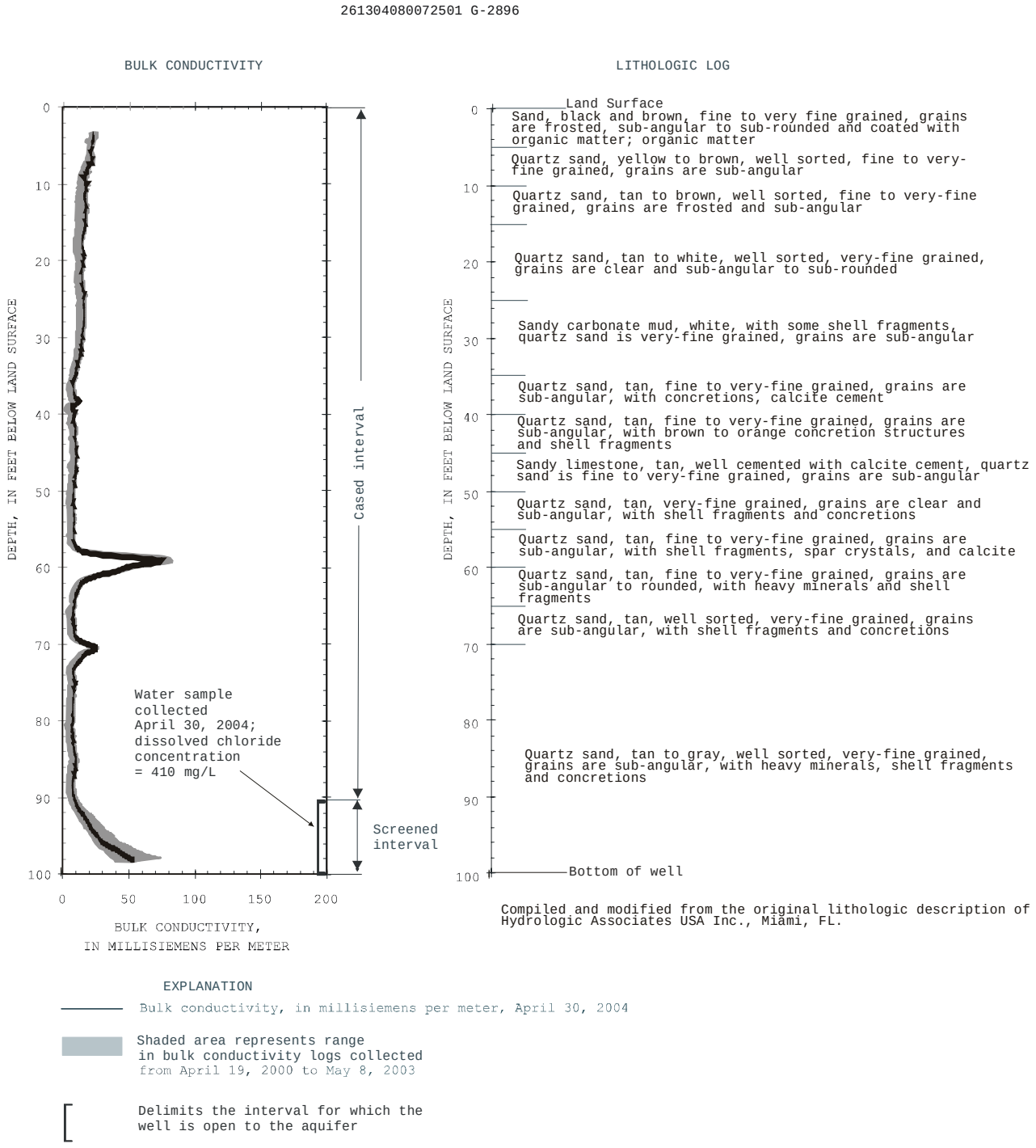
Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
28...	0914	2.10	1,560	400
FEB				
12...	1351	2.12	1,750	420
APR				
30...	1110	1.57	1,850	410
AUG				
06...	1503	2.70	2,450	680





BROWARD COUNTY—Continued

WELL NUMBER.--261304080072501. Local Number G 2896. USGS Observation Well near Pompano Beach, FL.-Continued



Compiled and modified from the original lithologic description of Hydrologic Associates USA Inc., Miami, FL.

BROWARD COUNTY—Continued

WELL NUMBER.--261403080070801. Local Number G 2149. USGS Observation Well in Pompano Beach, FL.

LOCATION.--Lat 26°14'02", long 80°07'09", in NE ¼ SE ¼ SE ¼ sec. 35, T.48 S., R.42 E., Hydrologic Unit 03090202, at the NW corner of NE 3rd Street and NE 5th Avenue, 8.8 ft from edge of street.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 137 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 17.39 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 17.4 ft above NGVD.

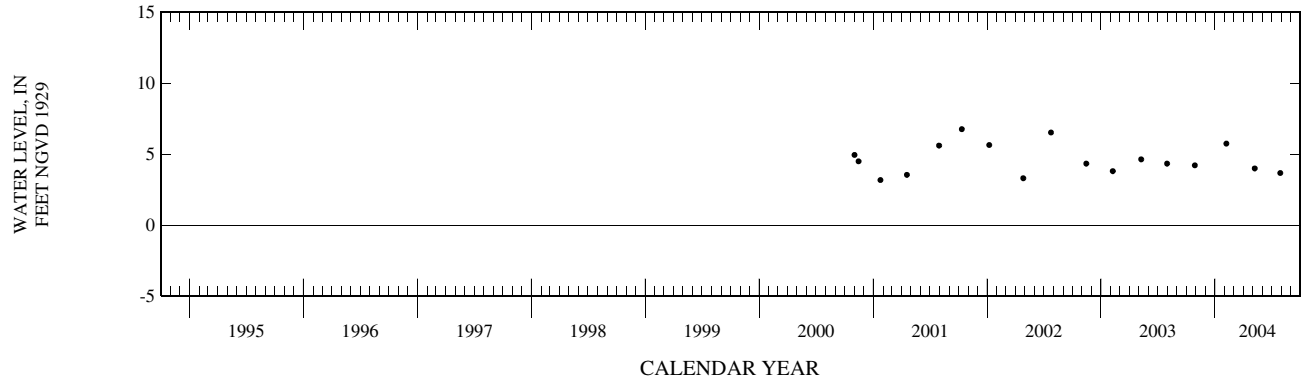
REMARKS.--Well is also used for salinity monitoring. Water-level monitoring began in April 1986, prior to that only salinity was monitored.

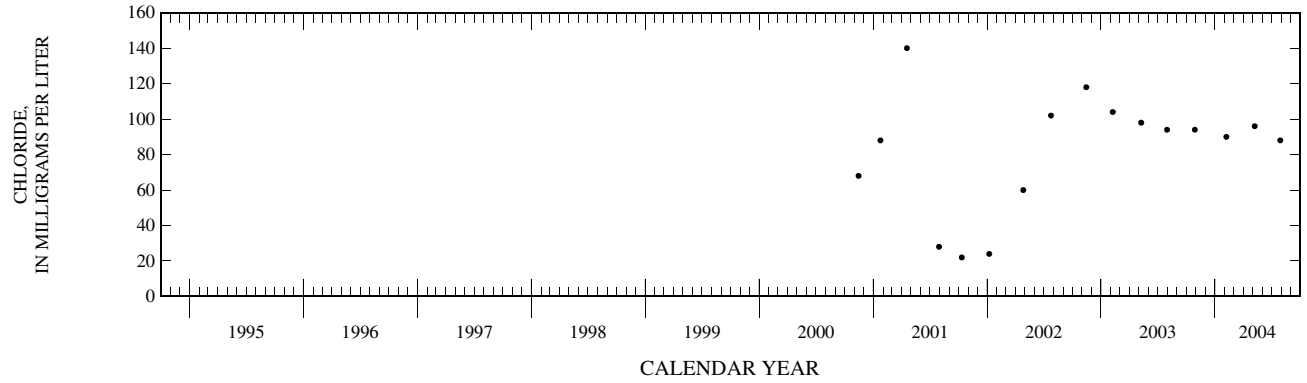
PERIOD OF RECORD.--October 1974 to April 1975 (quarterly), October 1975 to September 1977 (monthly), October 1977 to August 1993 (bimonthly), October 1993 to September 1994 (monthly), November 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.08 ft NGVD, Sept. 30, 1994; lowest, 0.51 ft NGVD, June 13, 1989.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
28...	0847	4.22	586	94.0
FEB				
06...	1020	5.75	592	90.0
MAY				
07...	1150	4.00	619	96.0
JUL				
28...	1254	3.68	586	88.0





BROWARD COUNTY—Continued

WELL NUMBER.--261434080071901. Local Number G 853. USGS Observation Well in Pompano Beach, FL.

LOCATION.--Lat 26°14'34", long 80°07'19", in SW $^1/_4$ NE $^1/_4$ NE $^1/_4$ sec.35, T.48 S., R.42 E., Hydrologic Unit 03090202, on north side of NE 12th Street, 200 ft west of NE 3rd Avenue.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 27 ft, cased to 27 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 22.25 ft above National Geodetic Vertical Datum of 1929. Prior to October 1, 1999, top of base was periodically considered to be 22.14 ft above NGVD. Prior to October 1996, measuring point was top of casing, 22.14 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 19.7 ft above NGVD.

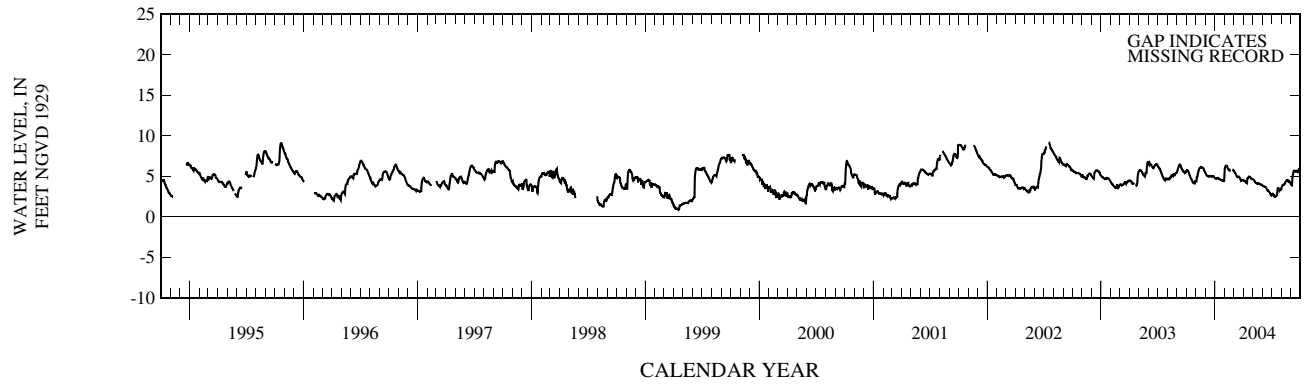
REMARKS.--The figures of water levels as elevation in feet NGVD, prior to October 1, 1998 are in error. Corrected records for the 1997-1999 water years are available in the files of the U.S. Geological Survey. See DATUM. Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--May 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 9.49 ft NGVD, Oct. 31, 1964; lowest, 6.62 ft below NGVD, May 2, 1981.

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	5.76	4.96	5.14	4.76	6.33	5.45	4.46	4.53	3.79	2.80	3.96	4.87
10	5.31	5.86	5.02	4.84	6.10	5.06	4.23	4.24	3.70	2.58	4.05	5.73
15	4.80	6.12	5.04	4.71	5.87	5.00	4.83	4.13	3.42	2.62	4.43	5.61
20	4.40	6.12	5.02	4.56	---	4.83	4.99	4.09	3.23	3.52	4.53	5.72
25	4.17	5.99	5.06	4.50	---	4.47	4.75	4.04	3.00	3.27	4.32	5.73
EOM	4.40	5.50	4.80	5.09	5.73	4.55	4.67	3.91	2.76	3.43	4.05	6.12
MAX	5.79	6.17	5.46	5.09	---	5.72	4.99	4.66	3.89	3.59	4.53	6.12



BROWARD COUNTY—Continued

WELL NUMBER.--261441080111301. Local Number G 1316. USGS Observation Well near Margate, FL.

LOCATION.--Lat 26°14'41", long 80°11'13", in SW ¼ SE ¼ SE ¼ sec.30, T.48 S., R.42 E., Hydrologic Unit 03090202, at the northwest corner of Lyons Road and Coconut Creek Parkway, 1.0 mi east of Margate.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 15.5 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 17.07 ft above National Geodetic Vertical Datum of 1929. Prior to November 1997, top of base was 17.08 ft above NGVD. Prior to September 19, 1991, measuring point was top of casing 17.10 ft above NGVD. Prior to September 25, 1985, top of casing was 17.62 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 15.2 ft above NGVD.

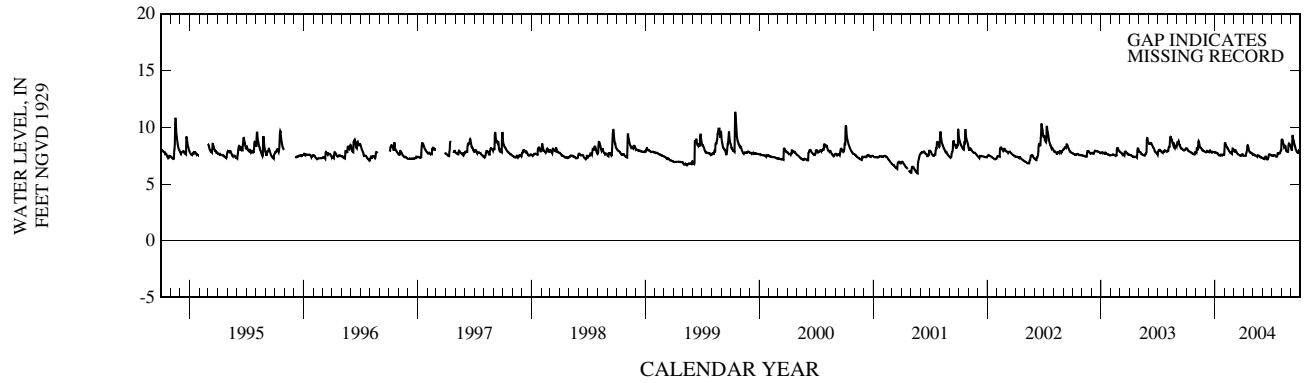
REMARKS.--Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey. Station was reconstructed on September 30, 1985, September 19, 1991, November 5, 1997.

PERIOD OF RECORD.--April 1969 to October 1979 (daily), October 1979 to October 1983 (intermittent), February 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 11.35 ft NGVD, Oct. 15, 1999; lowest, 5.93 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	8.03	8.12	7.87	7.76	8.46	7.99	7.47	7.60	7.24	7.52	8.70	9.24
10	7.87	8.72	7.81	7.69	8.13	7.79	7.77	7.50	7.40	7.55	8.28	8.69
15	7.78	8.22	7.95	7.52	7.88	7.61	8.39	7.39	7.17	7.40	8.04	8.11
20	7.68	8.04	7.79	7.59	7.79	7.52	7.87	7.49	7.32	7.71	7.87	7.79
25	7.62	7.90	7.82	7.53	7.91	7.53	7.76	7.37	7.61	7.67	8.58	7.82
EOM	7.79	7.83	7.77	7.94	8.04	7.54	7.59	7.30	7.51	7.98	8.19	7.88
MAX	8.14	8.77	7.95	7.94	8.60	7.99	8.40	7.61	7.61	7.98	8.92	9.24



BROWARD COUNTY—Continued

WELL NUMBER.--261446080062801. Local Number G 2445. USGS Observation Well in Pompano Beach, FL.

LOCATION.--Lat 26°14'46", long 80°06'28", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 36, T.48 S., R.42 E., Hydrologic Unit 03090202, in the southeast corner of the Pompano Beach Airport, 0.3 mi north of NE 10th Street, 0.4 mi west of U.S. Highway 1.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 138 ft, cased to 123 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 15.54 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 13.4 ft above NGVD.

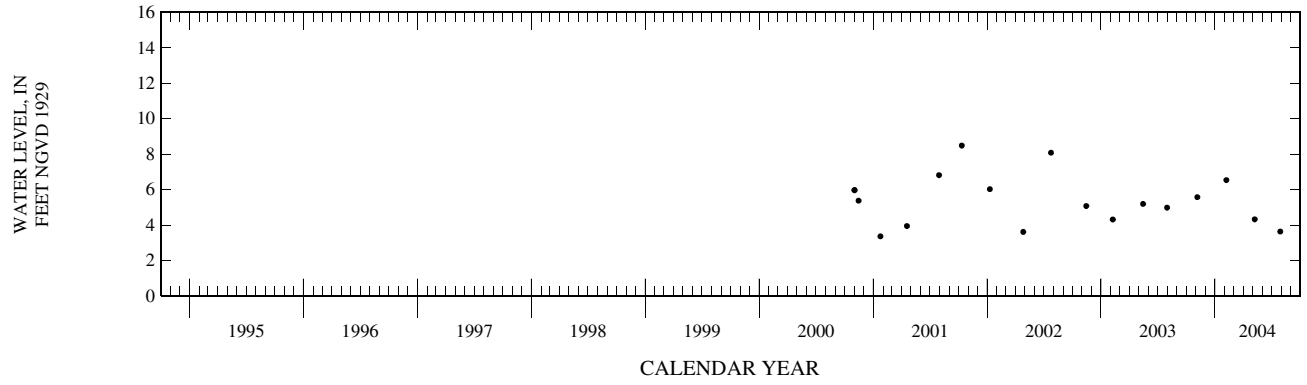
REMARKS.--Well is also used for salinity monitoring. Prior to November 2000 only chloride data published. Well depth and cased depth corrected based on borehole video log of November 28, 1995. Land-surface datum corrected based on field measurement in February 2003.

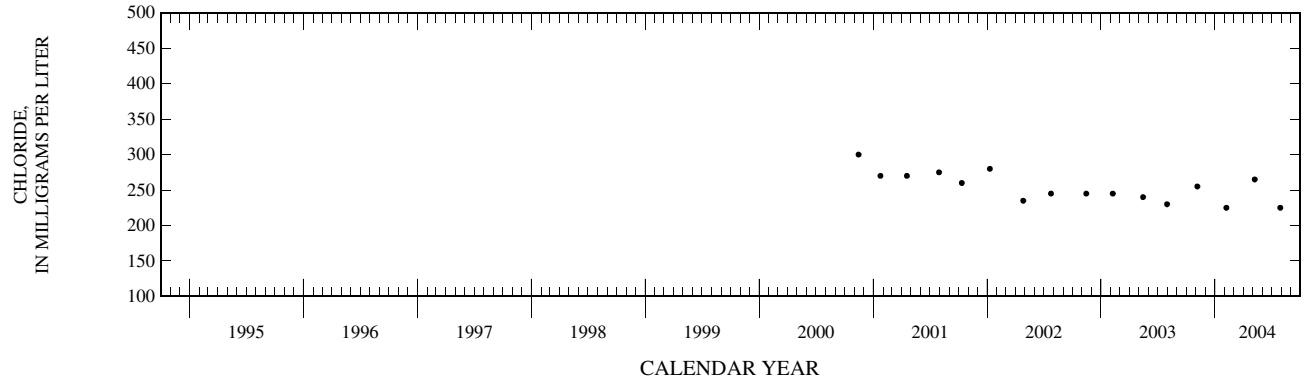
PERIOD OF RECORD.--November 1986 to July 1994 (intermittent), November 2000 to current year. See REMARKS.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.49 ft NGVD, Oct. 11, 2001; lowest, 3.37 ft NGVD, Jan. 23, 2001.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
NOV				
05...	0920	5.58	1,290	255
FEB				
06...	0940	6.54	1,260	225
MAY				
07...	1048	4.33	1,290	265
JUL				
28...	0953	3.64	1,280	225





BROWARD COUNTY—Continued

WELL NUMBER.--261501080060701. Local Number G 2147. USGS Observation Well in Pompano Beach, FL.

LOCATION.--Lat 26°15'01", long 80°06'07", in NW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.30, T.48 S., R.43 E., Hydrologic Unit 03090202, 200 ft west of U.S. Highway 1, and 300 ft north of NE 14th Street, in golf course.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 46 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of base, 11.62 ft above National Geodetic Vertical Datum of 1929. Prior to September 1990, measuring point was top of casing 11.57 ft above NGVD.

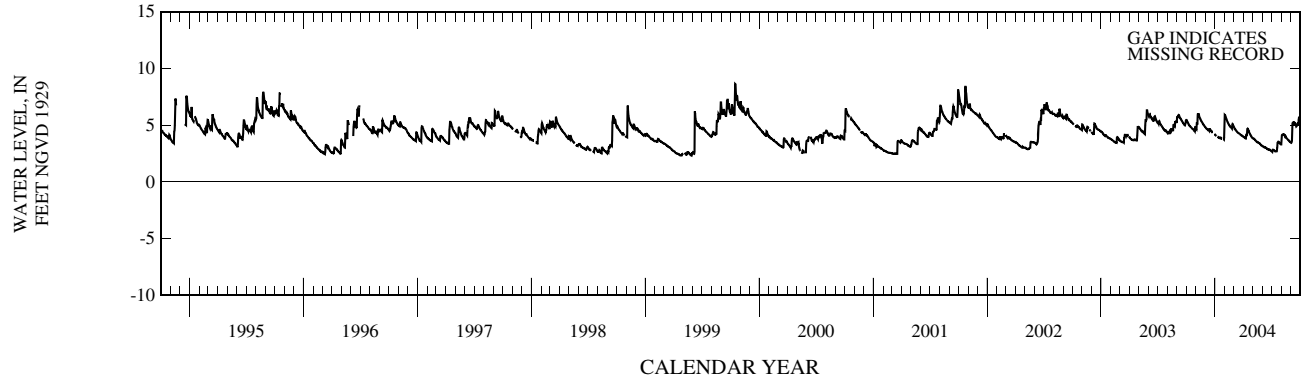
LAND-SURFACE DATUM.--Land surface is approximately 9.1 ft above NGVD.

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

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.63 ft NGVD, Oct. 15, 1999; lowest, 1.02 ft below NGVD, May 5, 1981.

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	5.28	5.12	4.67	4.04	5.66	4.64	3.89	3.80	3.09	2.83	4.18	5.10
10	5.00	5.88	4.60	3.99	5.28	4.48	4.14	3.63	3.04	2.73	4.13	5.17
15	4.85	5.53	4.66	3.88	5.01	4.33	4.67	3.50	2.94	2.70	3.93	5.06
20	4.68	5.27	4.46	3.88	4.84	4.22	4.35	3.44	2.84	3.51	3.78	5.03
25	4.56	5.03	---	---	5.01	4.10	4.07	3.31	2.82	3.46	3.63	5.45
EOM	4.73	4.85	4.19	4.90	4.92	4.00	3.87	3.18	2.70	3.31	3.46	5.60
MAX	5.46	5.99	---	---	5.92	4.86	4.70	3.85	3.16	3.55	4.19	5.68



BROWARD COUNTY—Continued

WELL NUMBER.--261534080165801. Local Number G 2031. USGS Observation Well in Coral Springs, FL.

LOCATION.--Lat 26°15'34", long 80°16'58", in SE ¼ SE ¼ SE ¼ sec.19, T.48 S., R.41 E., Hydrologic Unit 03090202, on west side of Coral Springs Drive, 150 ft north of Royal Palm Boulevard and 4.0 mi west of U.S. Highway 441.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 22 ft, cased to 21 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 13.67 ft above National Geodetic Vertical Datum of 1929. Prior to October 1995, measuring point was top of casing, 13.57 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 12.6 ft above NGVD.

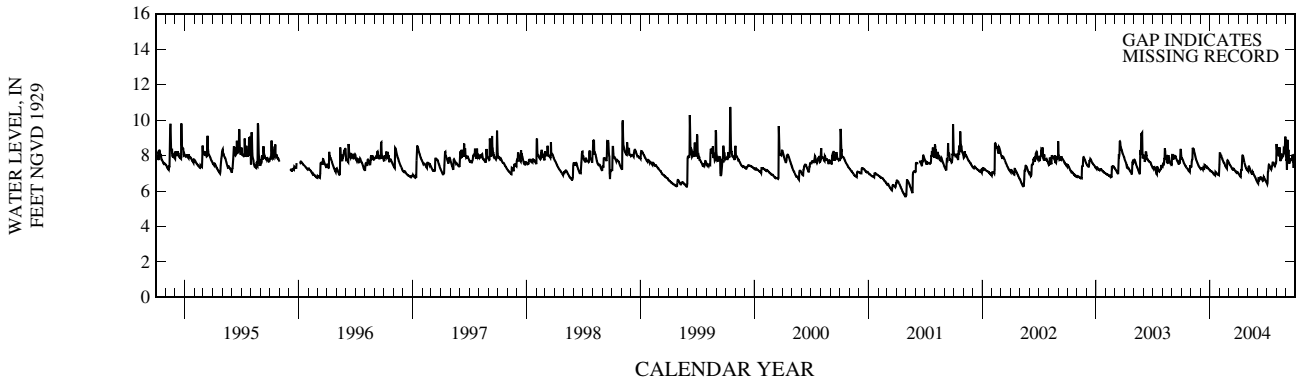
REMARKS.--Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey. The well was originally open to the aquifer from 21 to 22 ft . The well has become obstructed at a depth of 12.5 ft, but is in hydrologic communication with the aquifer. (Corrected).

PERIOD OF RECORD.--January 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 10.96 ft NGVD, Apr. 25, 1979; lowest, 4.75 ft NGVD, estimated, Sept. 5, 1979.

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	7.79	7.79	7.29	7.11	7.98	7.47	6.88	7.38	6.70	7.11	8.42	8.89
10	7.55	8.29	7.31	7.03	7.75	7.33	7.19	7.13	6.78	7.42	8.47	7.69
15	7.40	7.93	7.45	6.91	7.58	7.20	7.99	6.97	6.67	7.23	7.81	7.85
20	7.26	7.66	7.35	7.05	7.39	7.16	7.61	6.93	6.68	7.60	7.93	7.87
25	7.13	7.43	7.30	6.94	7.70	7.04	7.31	6.75	6.66	7.46	8.36	7.30
EOM	7.34	7.29	7.17	7.50	7.64	7.03	7.17	6.52	6.48	7.67	7.99	8.10
MAX	7.86	8.44	7.47	7.50	8.13	7.60	8.00	7.39	6.79	7.67	9.07	8.89



BROWARD COUNTY—Continued

WELL NUMBER.--261641080064801. Local Number G 2866. USGS Observation Well in Pompano Beach, FL.

LOCATION.--Lat 26°16'41", long 80°06'48", in NE ¼ SE ¼ SW ¼ sec.13, T.48 N., R.42 E., Hydrologic Unit 03090202, on the southwest corner of North Dixie Highway and NE 38th Court.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 20 ft, cased to 15 ft, screened 15 to 20 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 20.21 ft above National Geodetic Vertical Datum of 1929. Prior to May 31, 2000, measuring point was 20.11 ft above NGVD.

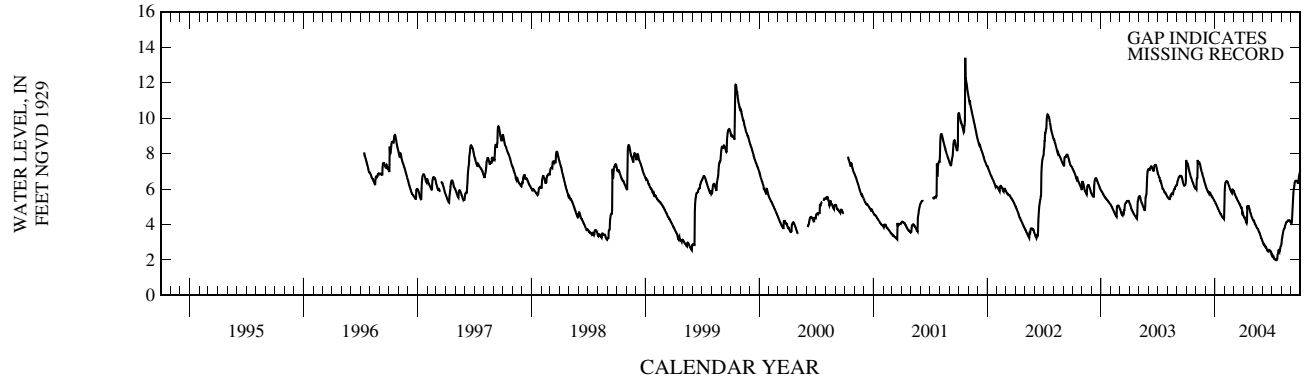
LAND-SURFACE DATUM.--Land surface is approximately 17.2 ft above NGVD.

PERIOD OF RECORD.--July 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 13.40 ft NGVD, Oct. 22, 2001; lowest, 1.99 ft NGVD, July 14, 16, 2004.

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	7.44	6.62	6.03	5.11	6.42	5.67	4.34	4.15	2.91	2.22	3.48	4.86
10	7.02	7.52	5.85	4.93	6.41	5.49	4.11	3.99	2.78	2.05	3.79	6.08
15	6.69	7.28	5.80	4.72	6.16	5.31	4.99	3.79	2.57	2.00	4.06	6.46
20	6.43	6.92	5.64	4.57	5.93	5.13	4.91	3.62	2.47	2.33	4.19	6.42
25	6.20	6.60	5.49	4.40	5.92	4.97	4.57	3.39	2.52	2.47	4.24	6.54
EOM	6.06	6.29	5.29	5.09	5.92	4.56	4.32	3.11	2.33	2.82	4.11	7.10
MAX	7.47	7.64	6.24	5.25	6.44	5.90	5.06	4.28	3.07	2.82	4.24	7.10



BROWARD COUNTY—Continued

WELL NUMBER.--261643080055901. Local Number G 2752. USGS Observation Well near Hillsboro Beach, FL.

LOCATION.--Lat 26°16'43", long 80°05'59", in NE $^1/_4$ SW $^1/_4$ SW $^1/_4$ sec. 18, T.48 S., R.43 E., Hydrologic Unit 03090202, on southeastern corner of NE 39th Street and NE 18th Avenue.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 253 ft, cased to 248 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 11.35 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 12.0 ft above NGVD. (Corrected).

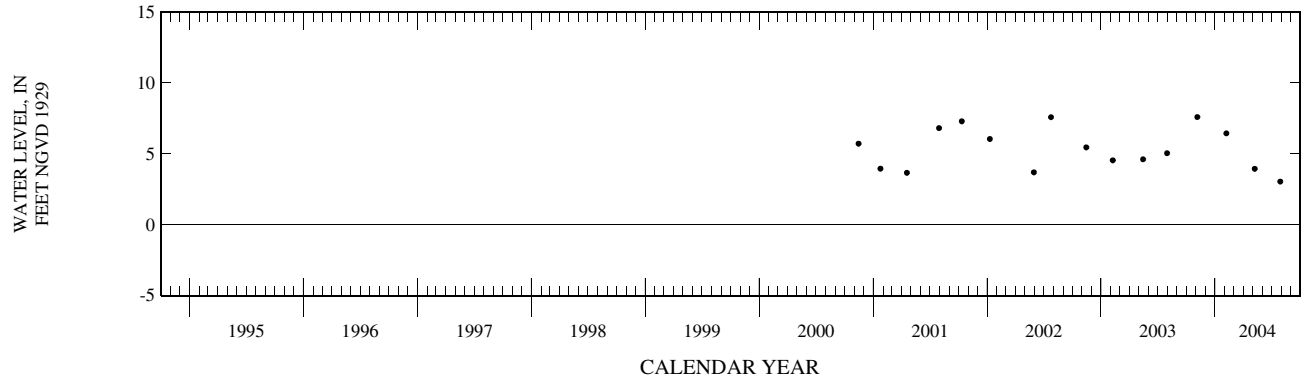
REMARKS.--Well is also monitored for salinity.

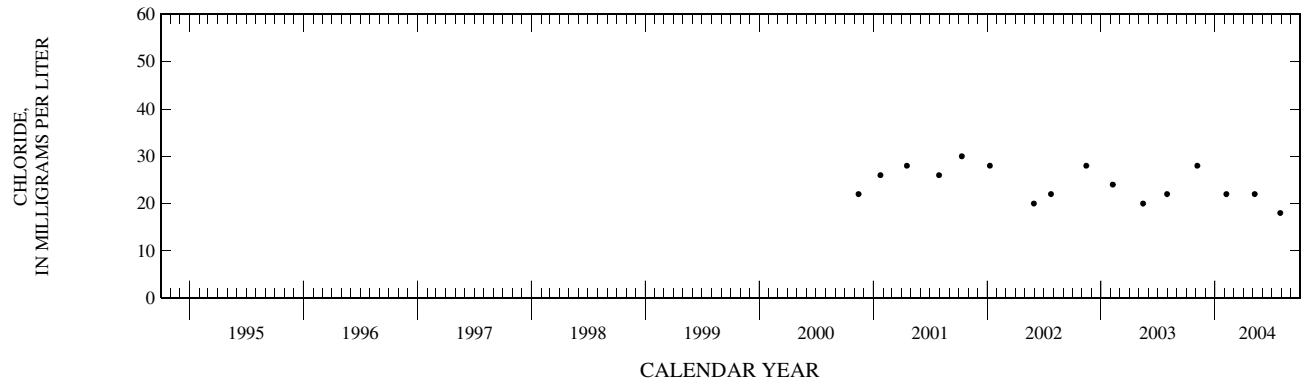
PERIOD OF RECORD.--November 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.60 ft NGVD, Nov. 5, 2003; lowest, 3.05 ft NGVD, July 28, 2004.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
NOV				
05...	1145	7.60	427	28.0
FEB				
06...	1050	6.45	429	22.0
MAY				
07...	1240	3.95	437	22.0
JUL				
28...	1030	3.05	427	18.0





BROWARD COUNTY—Continued

WELL NUMBER.--261708080090801. Local Number G 1315. USGS Observation Well near Pompano Beach, FL.

LOCATION.--Lat 26°17'08", long 80°09'08", in SW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.15, T.48 S., R.42 E., Hydrologic Unit 03090202, 50 ft east of Powerline Road, 0.8 mi north of Sample Road, and 2.3 mi northeast of Coconut Creek.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 14 ft.

REVISED RECORDS.--WDR FL-85-2B: 1982.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of casing, 17.59 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 15.4 ft above NGVD.

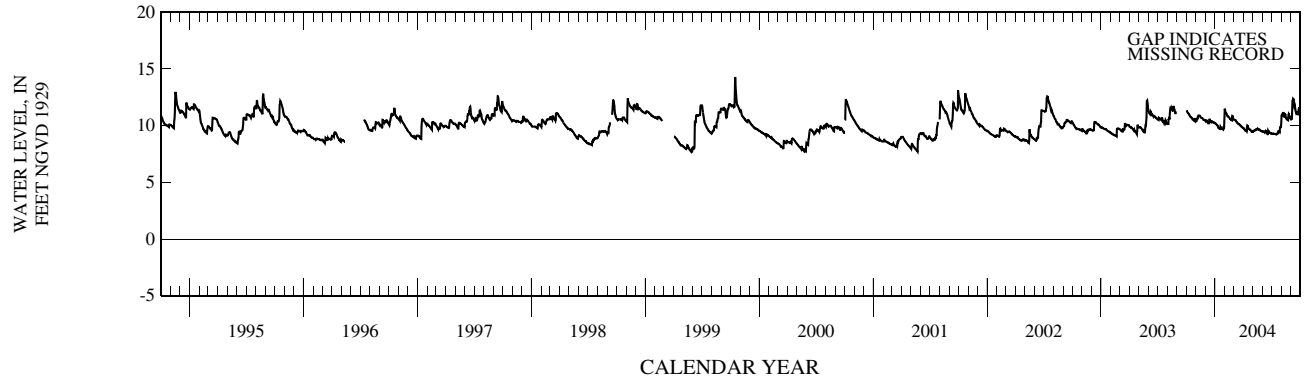
REMARKS.--Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--January 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 14.27 ft NGVD, Oct. 15, 1999; lowest, 6.26 ft NGVD, Mar. 30, 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	11.13	10.57	10.43	10.09	11.08	10.49	9.64	9.52	9.44	9.29	11.09	12.17
10	10.97	10.88	10.32	9.94	10.81	10.33	9.54	9.58	9.53	9.26	10.78	12.03
15	10.73	10.76	10.52	9.73	10.70	10.14	9.84	9.71	9.30	9.23	10.70	11.29
20	10.56	10.67	10.40	9.73	10.54	10.07	9.66	9.65	9.50	9.32	10.49	11.08
25	10.46	10.51	10.33	9.68	10.85	9.90	9.54	9.56	9.35	9.42	10.97	11.37
EOM	10.45	10.45	10.22	10.73	10.58	9.78	9.47	9.47	9.26	10.21	10.54	11.60
MAX	---	10.88	10.60	10.73	11.48	10.53	10.01	9.73	9.55	10.21	11.11	12.34



BROWARD COUNTY—Continued

WELL NUMBER.--261724080054603. Local Number G 2694. USGS Observation Well near Pompano Beach, FL.

LOCATION.--Lat 26°17'24", long 80°05'46", in SE ¼ SE ¼ SW ¼ sec. 7, T.48 S., R.43 E., Hydrologic Unit 03090202, on southeastern corner of NE 49 Street and NE 19 Terrace. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 229 ft.

REVISED RECORDS.--WDR FL-02-2B: 2002. Data published was in error. See REMARKS.

INSTRUMENTATION.--Quarterly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 8.78 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 9.4 ft above NGVD. (Corrected).

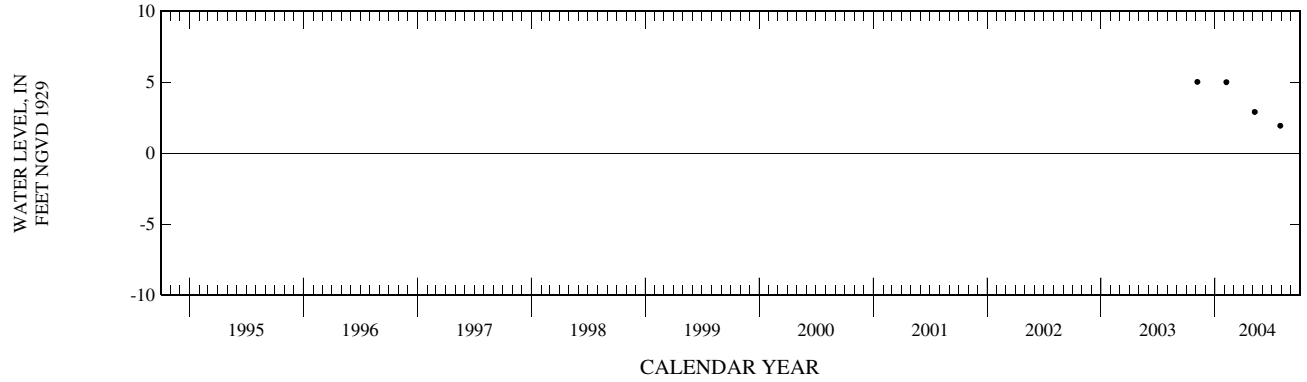
REMARKS.--Well is also used for salinity monitoring. Data published for well G-2694 for the 2000 to 2002 water years was in error. These samples and the samples for the 2003 water year were mistakenly collected from well G-2693 because of an error on a site map. This data has been corrected and moved to the files of the U.S. Geological Survey for well G-2693.

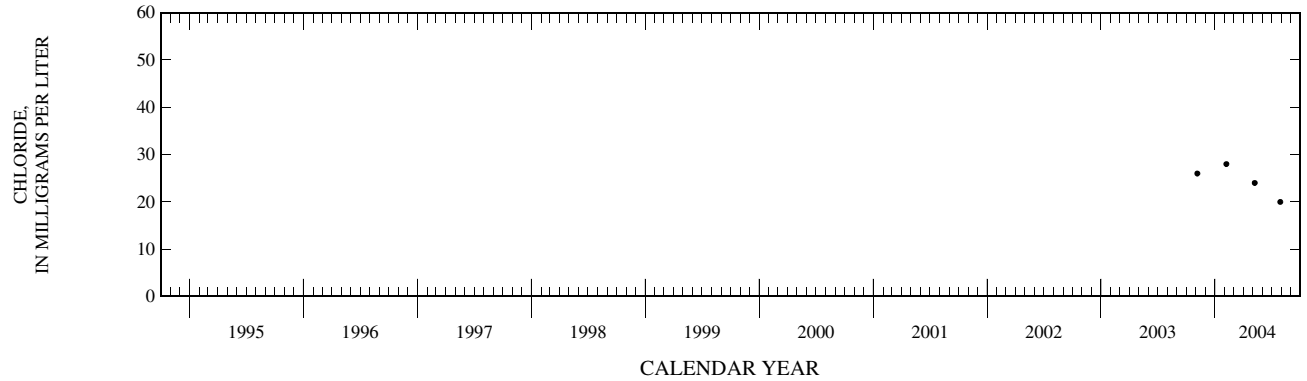
PERIOD OF RECORD.--October 2003 to current year. See REMARKS.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.03 ft NGVD, Nov. 5, 2003; lowest, 1.94 ft NGVD, July 28, 2004. See REMARKS.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
NOV				
05...	0845	5.03	337	26.0
FEB				
06...	0838	5.01	340	28.0
MAY				
07...	0944	2.91	341	24.0
JUL				
28...	1140	1.94	317	20.0





BROWARD COUNTY—Continued

WELL NUMBER.--261734080111301. Local Number G 1213. USGS Observation Well near Pompano Beach, FL.

LOCATION.--Lat 26°17'34", long 80°11'13", in SE ¼ NE ¼ SE ¼ sec.7, T.48 S., R.42 E., Hydrologic Unit 03090202, at southwest corner of Wilburn Road and Lyons Road, 1.0 mi east of U.S. Highway 441, and 7.5 mi northwest of Pompano Beach.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 5 in., depth 15 ft, cased to 12 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of casing, 20.22 ft above National Geodetic Vertical Datum of 1929. Prior to December 2, 1997, measuring point was top of shelf, 20.60 ft above NGVD. Prior to October 12, 1990, top of shelf was 20.48 ft above NGVD. Prior to July 20, 1987, (previous Well) measuring point was top of casing 17.89 ft above NGVD. Prior to September 1980, top of casing was 17.95 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 18.3 ft above NGVD.

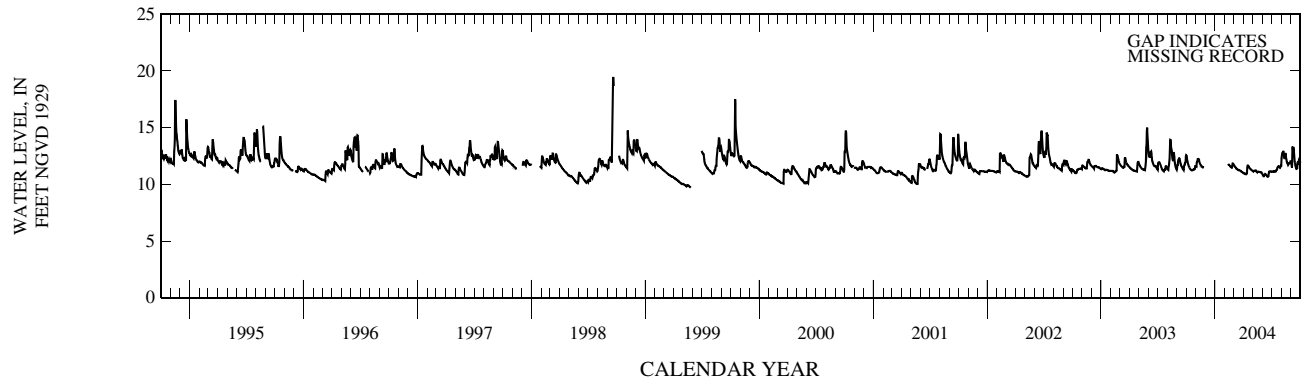
REMARKS.--Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey. This well replaces a 20 ft deep well in the vicinity that was abandoned in 1987. The well name and number were retained for the replacement well. The well is open to the aquifer to a depth of 14.6 ft. In 2003, the well was incorrectly reported as obstructed. The well was damaged and repaired December 1997, January 9, 2002. (Corrected).

PERIOD OF RECORD.--January 1963 to July 1987, (previous well); current well, July 1987 to current year. See REMARKS.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 19.38 ft NGVD, Sept. 19, 20, 1998; lowest, 9.39 ft NGVD, June 29, 1989.

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	11.95	12.02	---	---	---	11.54	10.92	11.19	10.71	11.11	12.81	13.26
10	11.52	12.18	---	---	---	11.38	10.94	11.18	10.87	11.13	12.32	12.75
15	11.29	11.73	---	---	11.69	11.27	11.65	11.04	10.74	11.23	12.39	11.58
20	11.22	11.55	---	---	11.54	11.23	11.46	11.10	10.70	11.54	11.84	11.44
25	11.28	11.48	---	---	11.64	11.12	11.30	11.07	11.14	11.52	11.87	11.71
EOM	11.61	---	---	---	11.76	11.00	11.19	10.94	11.12	11.65	11.97	11.91
MAX	12.54	---	---	---	---	11.70	11.65	11.20	11.14	11.65	12.87	13.26



BROWARD COUNTY—Continued

WELL NUMBER.--261740080054101. Local Number G 2893. USGS Observation Well near Deerfield Beach, FL.

LOCATION.--Lat 26°17'40", long 80°05'41", in SW $^1/_4$ NW $^1/_4$ SE $^1/_4$ sec.7, T.48 S., R.43 E., Hydrologic Unit 03090202, on NE 52nd Street, 200 ft east of U.S. Highway 1.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 176 ft, cased to 166 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 7.77 ft above National Geodetic Vertical Datum of 1929.

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

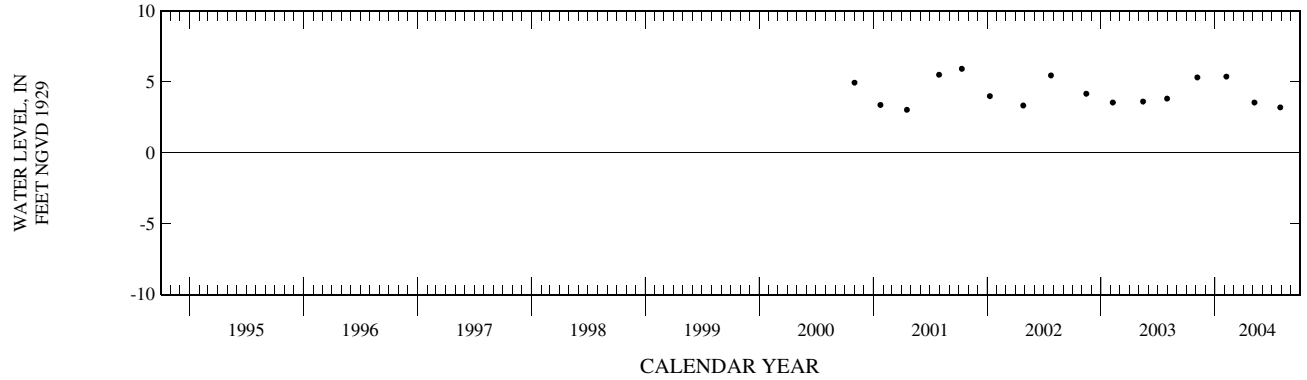
REMARKS.--Well is also used for salinity monitoring.

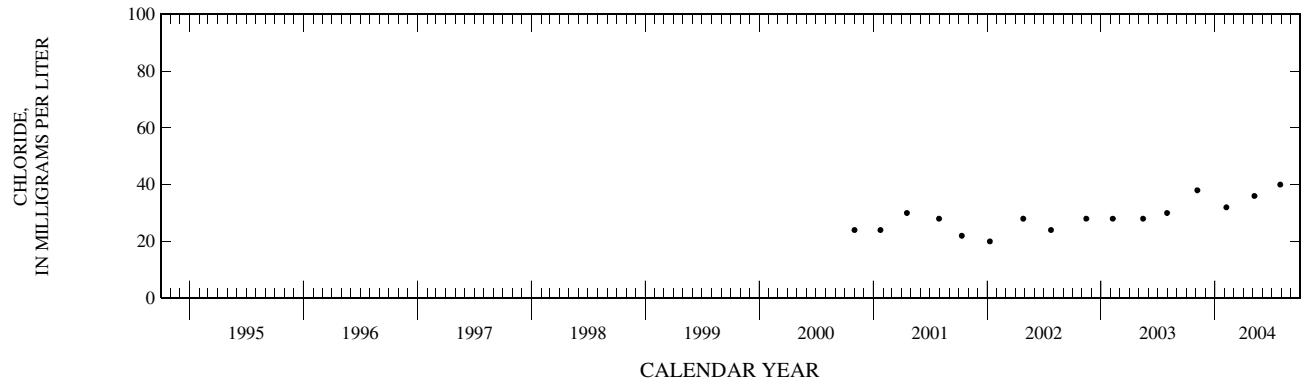
PERIOD OF RECORD.--November 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.93 ft NGVD, Oct. 11, 2001; lowest, 3.04 ft NGVD, Apr. 18, 2001.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)	Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
NOV					MAY				
05...	0802	5.32	344	38.0	06...	1540	3.55	376	36.0
FEB					JUL				
06...	0740	5.38	363	32.0	28...	1215	3.21	382	40.0





BROWARD COUNTY—Continued

WELL NUMBER.--261831080151301. Local Number G 2739. USGS Observation Well in Parkland, FL.

LOCATION.--Lat 26°18'31", long 80°15'13", in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.4, T.48 S., R.41 E., Hydrologic Unit 03090202, east of University Drive and north of fenced area across from The Landings, 0.5 mi north of Sawgrass Expressway and 0.1 mi south of Holmberg Road.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 21 ft, cased to 21 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of shelf, 15.06 ft above National Geodetic Vertical Datum of 1929.

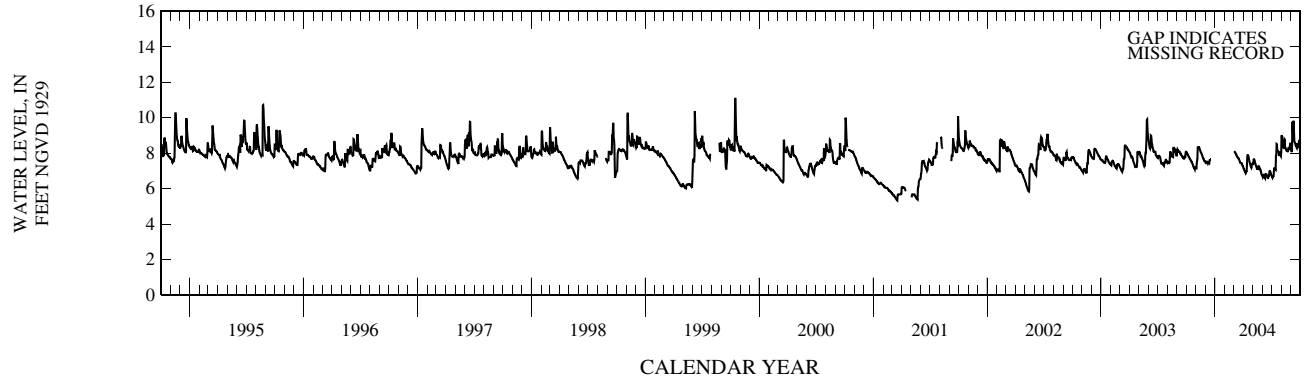
LAND-SURFACE DATUM.--Land surface is approximately 12.3 ft above NGVD.

PERIOD OF RECORD.--December 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 11.11 ft NGVD, Oct. 15, 1999; lowest, 5.34 ft NGVD, Mar. 18, 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	7.94	7.69	7.52	---	---	8.05	7.00	7.65	6.75	6.70	8.35	9.77
10	7.76	8.33	7.47	---	---	7.88	6.97	7.38	6.82	7.15	8.79	9.19
15	7.60	8.12	7.61	---	---	7.72	7.89	7.08	6.75	7.89	8.22	8.43
20	7.42	7.92	---	---	---	7.56	7.57	7.27	6.71	8.13	8.12	8.38
25	7.19	7.69	---	---	---	7.44	7.23	7.08	6.99	8.07	8.25	8.50
EOM	7.20	7.54	---	---	---	7.23	7.40	6.74	6.73	8.09	8.22	8.54
MAX	8.08	8.34	---	---	---	8.08	7.89	7.66	6.99	8.51	8.97	9.83



BROWARD COUNTY—Continued

WELL NUMBER.--261903080065601. Local Number G 1260. USGS Observation Well in Deerfield Beach, FL.

LOCATION.--Lat 26°19'03", long 80°06'56", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.1, T.48 S., R.42 E., Hydrologic Unit 03090202, on southeast side of the intersection of State Road 810 and U.S. Interstate 95 at Deerfield Beach, 0.9 mi west of Florida East Coast Railroad.

AQUIFER.--Biscayne limestone aquifer of Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 90 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of casing, 12.21 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 10.9 ft above NGVD.

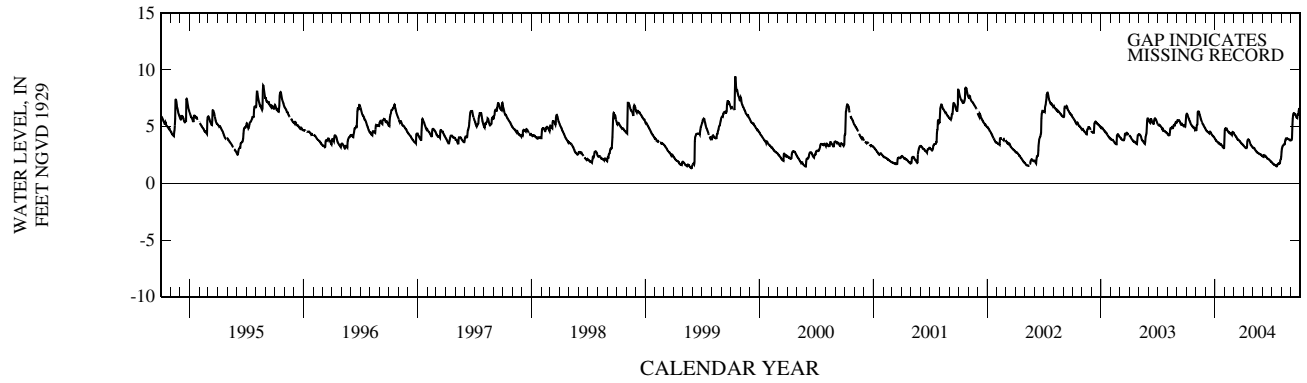
REMARKS.--Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--January 1961 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured (from high-water mark), 13.02 ft NGVD, Oct. 31, 1965; lowest daily maximum water level, 0.71 ft below NGVD, June 20, 23, 1989.

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	6.03	5.17	4.63	3.75	4.78	4.21	3.20	3.11	2.47	1.71	3.27	5.17
10	5.59	6.30	4.48	3.62	4.63	4.04	3.13	2.89	2.41	1.62	3.45	6.18
15	5.25	5.83	4.56	3.47	4.48	3.83	3.85	2.71	2.25	1.51	3.93	6.01
20	5.01	5.39	4.35	3.41	4.41	3.69	3.74	2.61	2.13	1.67	3.94	5.77
25	4.90	5.13	4.16	3.22	4.42	3.51	3.35	2.55	2.01	1.74	3.85	6.33
EOM	4.68	4.85	3.96	3.79	4.46	3.36	3.18	2.42	1.86	2.35	3.81	6.66
MAX	6.13	6.33	4.83	3.89	4.83	4.44	3.86	3.13	2.48	2.35	3.95	6.66



BROWARD COUNTY—Continued

WELL NUMBER.--261938080101001. Local Number G 2852. USGS Observation Well near Boca Raton, FL.

LOCATION.--Lat 26°19'38", long 80°10'10", in NW ¼ NW ¼ SW ¼ sec.33, T.47 S., R.42 E., Hydrologic Unit 03090202, approximately 12 ft south of Hillsboro Canal, 50 yards east of Florida Turnpike, 0.8 mi west of County Road 845 (Powerline Road), and 1.0 mi south of Camino Real Road, approximately 3.0 mi southwest of Boca Raton.

AQUIFER.--Biscayne limestone aquifer of Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 140 ft, cased to 130 ft, screened 130 to 140 ft.

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

DATUM.--Measuring point: Top of casing, 18.79 ft above National Geodetic Vertical Datum of 1929. Prior to August 2000, top of casing was considered to be 18.74 ft above NGVD. Prior to November 1995, top of casing was 16.14 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 17.0 ft above NGVD.

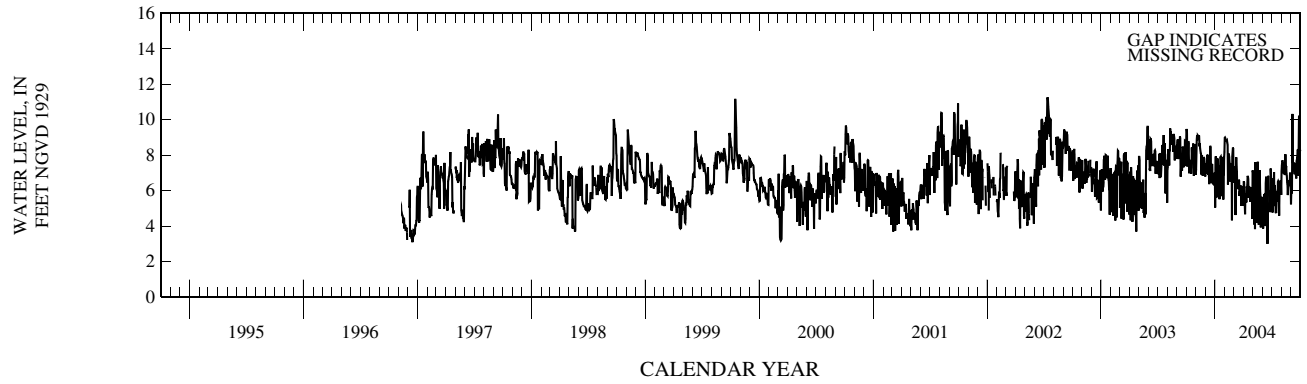
REMARKS.--Well was designated PB 1105 until September 1992 and published under the current station number. Well was also used for salinity monitoring until October 1993. Published figures of water levels as elevation, in ft NGVD, are in error for November 1995 to September 1999. Corrected figures are available in the files of the U.S. Geological Survey. See DATUM.

PERIOD OF RECORD.--October 1988 to May 1990 (semiannual), September 1990 to October 1991 (intermittent), November 1991 to October 1995 (monthly), November 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 11.27 ft NGVD, July 13, 2002; lowest, 3.00 ft NGVD, June 17, 2004.

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	7.72	8.84	7.44	5.66	8.83	7.22	5.29	4.09	5.24	6.65	7.65	10.33
10	6.98	9.12	6.90	6.92	8.58	7.35	5.34	7.22	4.00	6.32	7.35	7.51
15	7.32	8.25	6.80	5.52	7.89	6.13	6.79	4.64	5.36	4.73	7.24	7.32
20	7.84	8.00	6.53	7.71	6.75	5.96	6.11	4.08	6.80	6.49	6.34	7.71
25	6.83	7.67	6.40	7.90	7.94	5.14	5.90	5.72	5.62	6.12	6.50	9.30
EOM	6.90	6.80	7.03	8.19	6.44	5.15	7.14	4.89	5.41	5.76	5.23	8.32
MAX	9.48	9.13	8.53	8.19	9.01	7.88	7.14	7.63	7.25	7.05	8.05	10.33



BROWARD COUNTY—Continued

MISCELLANEOUS WATER-LEVEL MEASUREMENTS

Station number	Local identifier	Latitude	Longitude	Date	Time	Elevation, feet above NGVD (72020)	Specif. conduct-ance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
260242080101101 G	-2697	26 02 42 N	080 10 11 W	10-29-03	1220	1.82	4720	1480
		26 02 42 N	080 10 11 W	01-30-04	1215	.86	4860	1500
		26 02 42 N	080 10 11 W	04-29-04	1340	.87	5000	1520
		26 02 42 N	080 10 11 W	07-30-04	1123	1.30	5040	1640

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Charlotte County

VOLUME 2B: SOUTH FLORIDA

Key to site locations on figure # 13

CHARLOTTE COUNTY

Index Number	Site Number	Well Name	Page Number
1	265004081581901	CH 311	118
2	264755081460801	CH 323	116
3	264755081460802	CH 324	117

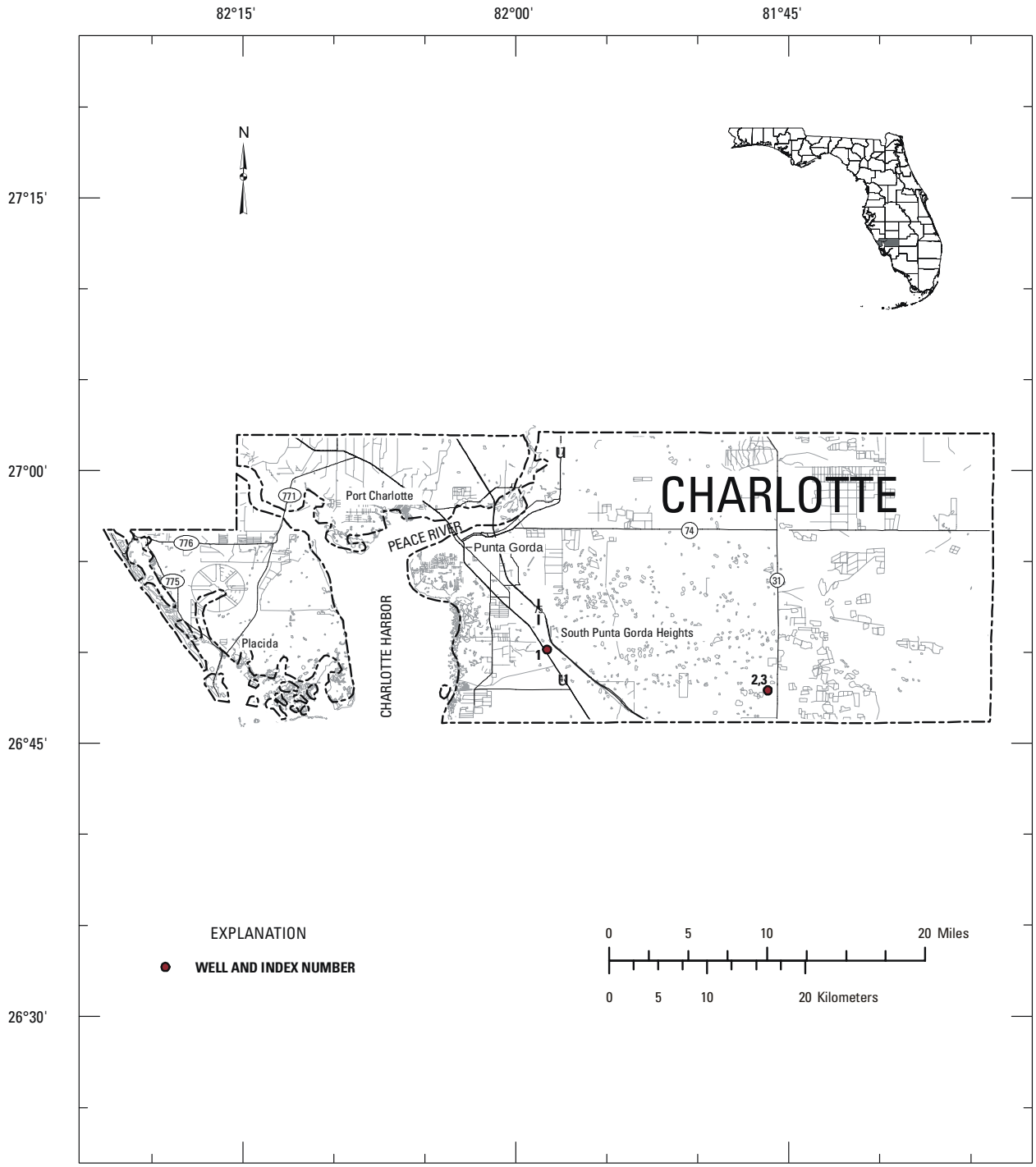


Figure 13. Location of wells in Charlotte County

CHARLOTTE COUNTY

WELL NUMBER.--264755081460801. Local Number CH 323. USGS Observation Well near Alva, FL.

LOCATION.--Lat 26°47'54", long 81°46'09", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.25, T.42 S., R.25 E., Hydrologic Unit 03090205, 10 ft north of Coral Rock Quarry Road, 75 ft south of Cook Brown Road, 0.6 mi west of State Road 31, 2.0 mi north of Lee/Charlotte County line.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 33 ft, cased to 19 ft, screened from 19 to 33 ft with 0.02 screen.

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

DATUM.--Measuring point: Top of casing, 34.17 ft above National Geodetic Vertical Datum of 1929.

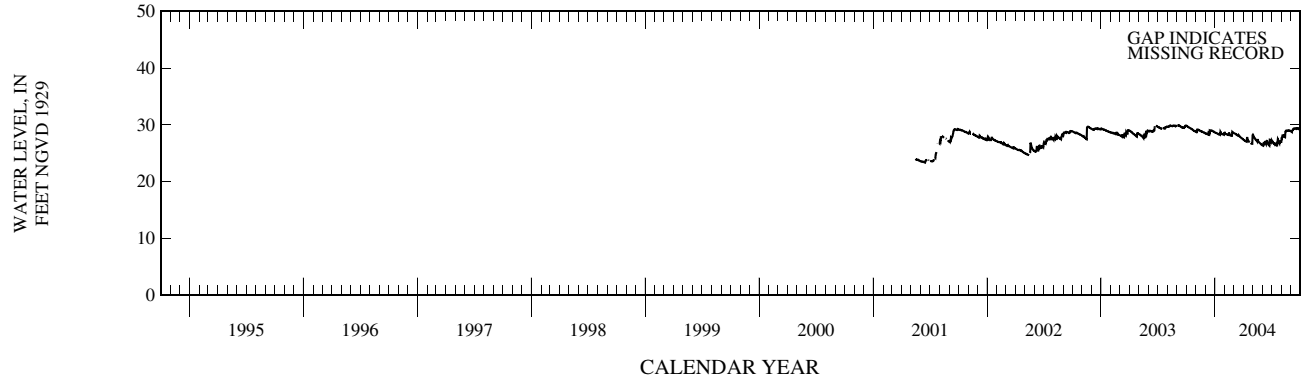
LAND-SURFACE DATUM.--Land surface is approximately 30.7 ft above NGVD.

PERIOD OF RECORD.--May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 29.94 ft NGVD, Sept. 6, 2003; lowest, 23.37 ft NGVD, June 15, 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	29.70	28.95	28.42	28.55	28.37	28.45	27.22	27.80	26.74	26.77	28.15	29.02
10	29.51	29.09	28.49	28.43	28.26	28.26	27.08	27.40	26.95	26.56	27.87	29.35
15	29.36	28.92	28.74	28.30	28.52	28.09	27.32	27.07	27.14	26.42	28.93	29.31
20	29.17	28.81	29.02	28.56	28.16	27.94	26.97	26.98	26.52	27.52	28.99	29.37
25	28.96	28.67	28.88	28.36	28.78	27.69	26.75	26.69	27.34	26.78	29.04	29.29
EOM	28.78	28.53	28.67	28.57	28.57	27.45	28.18	26.44	27.27	26.83	28.87	29.26
MAX	29.84	29.18	29.04	28.79	28.78	28.55	---	28.28	27.38	27.52	29.04	29.41



CHARLOTTE COUNTY—Continued

WELL NUMBER.--264755081460802. Local Number CH 324. USGS Observation Well near Alva, FL.

LOCATION.--Lat 26°47'54", long 81°46'09", in NE $^1/_4$ NE $^1/_4$ NW $^1/_4$ sec.25, T.42 S., R.25 E., Hydrologic Unit 03090205, 10 ft north of Coral Rock Quarry Road, 75 ft south of Cook Brown Road, 0.6 mi west of State Road 31, 2.0 mi north of Lee/Charlotte County line.

AQUIFER.--Mid-Hawthorn aquifer of the Miocene Age, Geologic Unit 112 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 2 in., depth 192 ft, cased to 179 ft, screened from 179 to 188 ft with 0.02 screen, open hole 188 to 192 ft. (Corrected).

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

DATUM.--Measuring point: Top of casing, 33.69 ft above National Geodetic Vertical Datum of 1929.

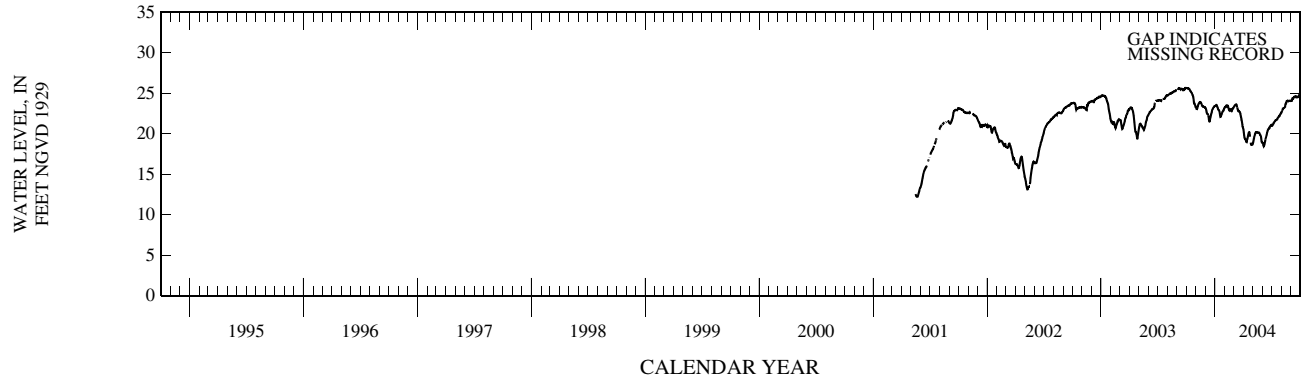
LAND-SURFACE DATUM.--Land surface is approximately 30.9 ft above NGVD. (Corrected).

PERIOD OF RECORD.--May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 25.64 ft NGVD, Sept. 28, 29, 2003; lowest, 12.22 ft NGVD, May 21, 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	25.59	23.14	22.65	23.54	23.41	23.53	19.40	19.53	18.45	21.18	23.02	24.33
10	25.53	23.73	22.27	23.11	23.46	23.55	18.97	20.13	19.24	21.48	23.22	24.51
15	25.19	23.90	21.57	22.74	22.94	22.83	19.68	20.11	20.03	21.68	23.75	24.53
20	24.82	23.49	22.49	22.15	22.99	22.68	20.16	20.12	20.58	21.94	24.06	24.50
25	23.93	23.33	23.08	22.70	23.04	21.82	18.72	19.82	20.90	22.15	24.07	24.59
EOM	23.29	23.20	23.39	23.18	23.20	20.69	18.70	18.89	21.01	22.52	24.02	24.52
MAX	25.63	23.91	23.39	23.54	23.48	23.61	---	20.20	21.07	22.52	24.07	24.70



CHARLOTTE COUNTY—Continued

WELL NUMBER.--265004081581901. Local Number CH 311. USGS Observation Well near Punta Gorda, FL.

LOCATION.--Lat 26°50'06", long 81°58'18", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.12, T.42 S., R.23 E., Hydrologic Unit 03100103, 30 ft south of fence, 0.1 mi east of U.S. Highway 41, at the Division of Forestry Fire Control Headquarters, 2.8 mi north of Zemel Road.

AQUIFER.--Mid-Hawthorn aquifer of the Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 220 ft, cased to 180 ft, open hole 180 to 200 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of 4 in. casing, 26.78 ft above National Geodetic Vertical Datum of 1929. Prior to August 2001, measuring point was 26.92 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 24.8 ft above NGVD.

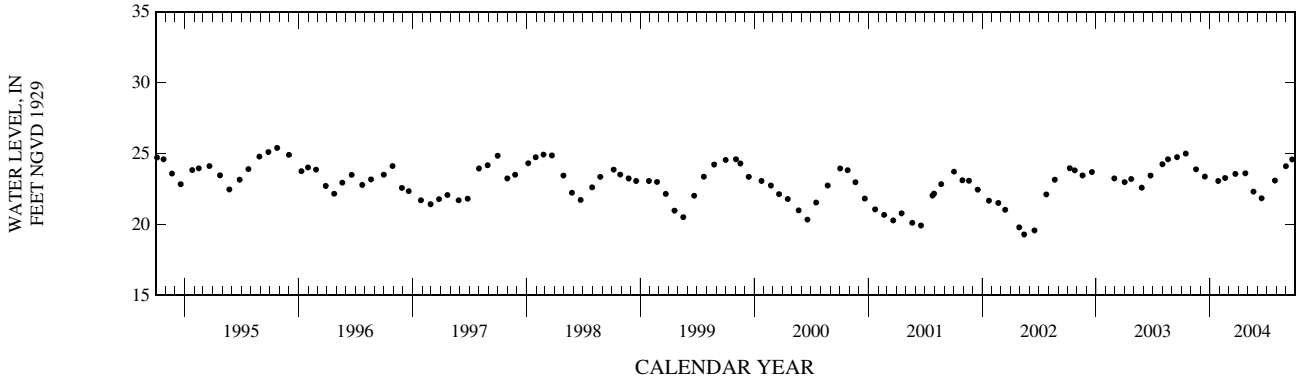
REMARKS.--Well also used for salinity monitoring from September 1975 to July 2000. Conductivity and chloride profiles are available in the files of the U.S. Geological Survey. Records of water levels prior to October 1991 are available in the files of the U.S. Geological Survey. In August 2001, site was rebuilt due to vehicle accident.

PERIOD OF RECORD.--January 1973 to October 1976 (daily), November 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 32.89 ft NGVD, Mar. 5, 1973; lowest measured, 19.01 ft NGVD, Nov. 23, 1993.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
15...	0702	25.00	23...	1609	23.61
NOV			MAY		
17...	1425	23.89	19...	1336	22.32
DEC			JUN		
15...	1511	23.38	14...	1411	21.85
JAN			JUL		
27...	0922	23.07	27...	0838	23.10
FEB			AUG		
18...	1417	23.28	31...	1507	24.11
MAR			SEP		
22...	1501	23.57	20...	1129	24.59



Collier County

Key to site locations on figure # 14

COLLIER COUNTY

Index Number	Site Number	Well Name	Page Number	Index Number	Site Number	Well Name	Page Number
1	261000080520001	C 54	150	48	262158081283403	C 982	199
2	260902081480401	C 130	144	49	262158081283402	C 983	198
3	262521081161901	C 131	208	50	261733081285501	C 984	180
4	262505081245301	C 258	205	51	261733081285503	C 985	182
5	260640081204301	C 296	140	52	261200081204901	C 986	157
6	262507081235201	C 298	206	53	260309081272601	C 987	132
7	261621081412302	C 303	178	54	261444081284901	C 988	170
8	261630081360001	C 304	179	55	261733081285502	C 989	181
9	255430081221001	C 311	122	56	255703081213801	C 995	125
10	262555081242501	C 363	210	57	261530081412001	C 997	172
11	261124081470301	C 391	154	58	261620081450201	C 998	176
12	261124081470101	C 392	153	59	261508081484902	C 999	171
13	261405081465501	C 460	167	60	261620081464402	C 1004R	177
14	262724081260701	C 462	212	61	260919081460501	C 1052	147
15	261302081473901	C 489	161	62	261127081461001	C 1054	155
16	261243081480301	C 490	160	63	261211081441301	C 1055	159
17	262228081361901	C 492	202	64	261537081461201	C 1057	173
18	255748081181801	C 495	126	65	261537081461202	C 1058	174
19	260111081243901	C 496	127	66	261604081480901	C 1059	175
20	261741081235401	C 503	186	67	261311081480101	C 1061	162
21	261156081475801	C 516	156	68	260925081475101	C 1062	148
22	261018081484101	C 526	151	69	260137081375901	C 1063	128
23	261200081483001	C 528	158	70	260137081375902	C 1064	129
24	262859081273002	C 532	216	71	255637081281401	C 1065	123
25	261438081481001	C 575	169	72	255637081281402	C 1066	124
26	260549081441901	C 600	134	73	260813081214302	C 1070	141
27	261740081235401	C 684	183	74	261823081171901	C 1071	190
28	262554081283801	C 687	209	75	261823081171902	C 1072	191
29	261802081354801	C 688	187	76	261740081235403	C 1073	185
30	261740081235402	C 689	184	77	262519081162102	C 1074	207
31	260632081324702	C 690	139	78	262822081213201	C 1075	213
32	261347081351701	C 948	166	79	262822081213202	C 1076	214
33	261347081351202	C 951	165	80	262822081213203	C 1077	215
34	261347081351201	C 953	164	81	262558081270501	C 1078	211
35	262121081355502	C 963	193	82	262158081283404	C 1079	200
36	262136081204202	C 965	196	83	262228081361902	C 1080	203
37	262136081204201	C 966	195	84	261805081473302	C 1083	189
38	260334081391601	C 968	133	85	260251081412801	C 1092	131
39	260843081324202	C 972	143	86	261435081472701	C 1094	168
40	260843081324201	C 973	142	87	261802081354802	C 1097	188
41	260941081324201	C 974	149	88	261023081463702	C 1100	152
42	260915081385901	C 976	145	89	260224081394301	C 1186	130
43	260915081385902	C 977	146	90	260405081414101	C 1224	135
44	262121081355501	C 978	192	91	260405081414102	C 1225	137
45	262121081355503	C 979	194	92	262248081314101	C 1244	204
46	261343081384801	C 980	163	93	262212081312501	C 1245	201
47	262158081283401	C 981	197				

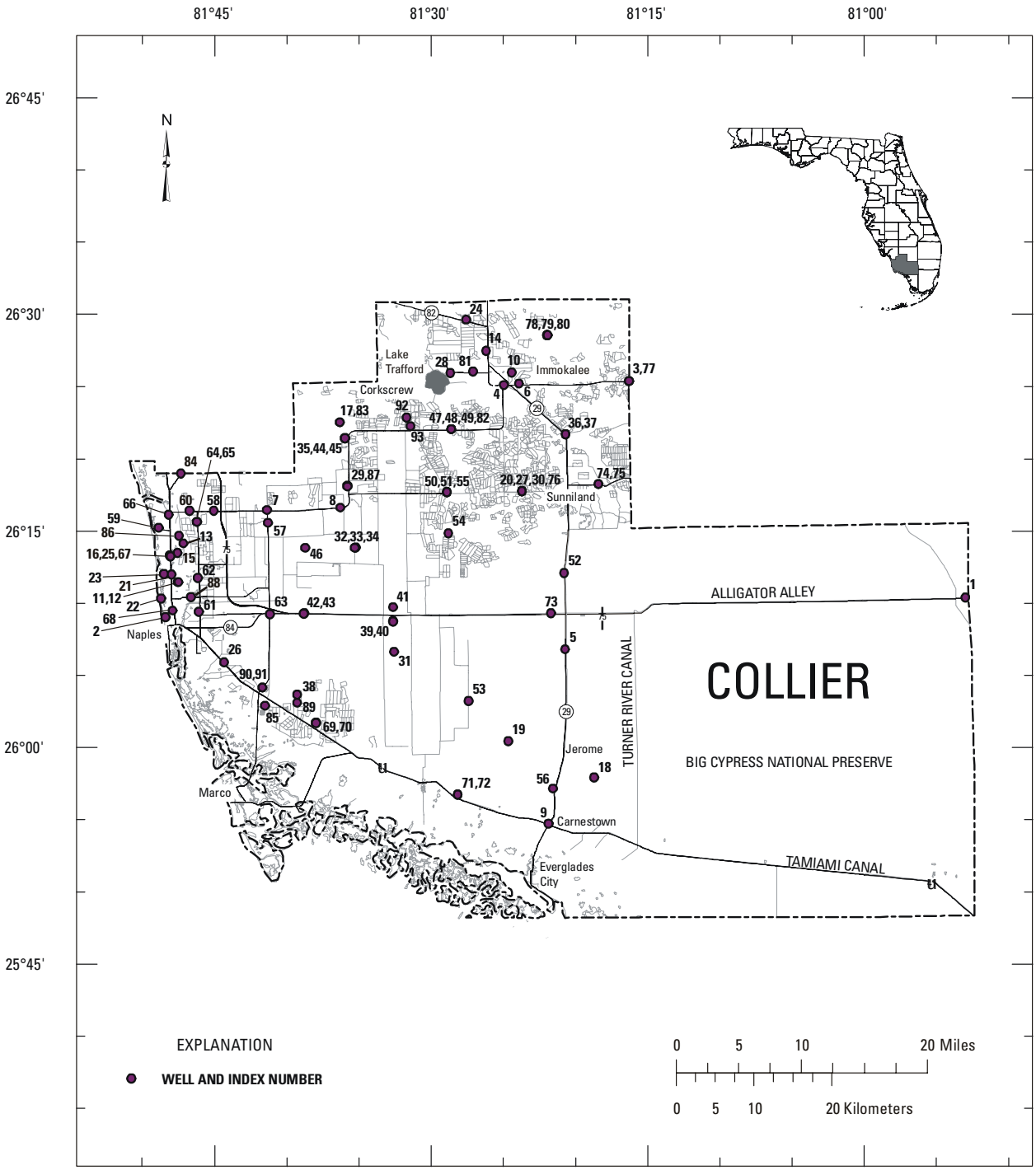


Figure 14. Location of wells in Collier County

COLLIER COUNTY

WELL NUMBER.--255430081221001. Local Number C 311.

LOCATION.--Lat 25°54'40", long 81°21'53", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.25, T.52 S., R.29 E., Hydrologic Unit 03090204, 20 ft south of U.S. Highway 41, and 53 ft west of State Road 29, 3 mi south of Copeland and 4 mi west of Ochopee.

AQUIFER.--Mid-Hawthorn aquifer of the Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 450 ft, cased to 430 ft, open hole 430 to 450 ft.

INSTRUMENTATION.--Monthly measurement with pressure gage.

DATUM.--Measuring point: Top of gate valve, 6.99 ft above National Geodetic Vertical Datum of 1929. From August 1994 to September 1997, measuring point was considered to be 4.99 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 4.94 ft above NGVD.

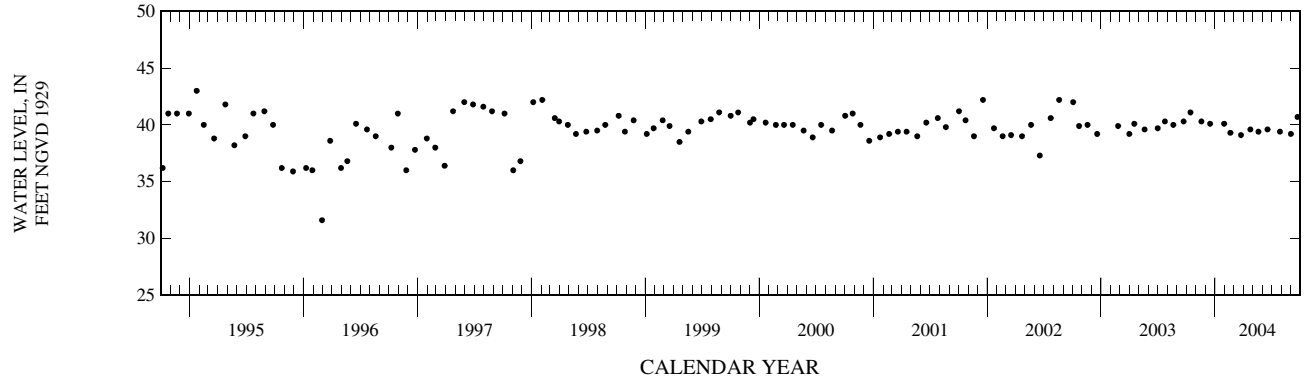
REMARKS.--Records of water levels prior to October 1982 are available in files of the U.S. Geological Survey. The figures of water levels as elevation, in feet NGVD, for the period August 1994 to September 1997 are in error. A correction of +2.00 ft has been applied to correct water-level data. Corrected records are in files of the U.S. Geological Survey. See DATUM.

PERIOD OF RECORD.--December 1959 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 43.0 ft NGVD, Jan. 23, 1995; lowest, 17.2 ft NGVD, May 17, 1978.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
14...	1321	41.1	23...	1336	39.6
NOV			MAY		
18...	1107	40.3	19...	1050	39.4
DEC			JUN		
16...	1149	40.1	17...	1331	39.6
JAN			JUL		
30...	1041	40.1	27...	1150	39.4
FEB			AUG		
19...	1231	39.3	31...	1055	39.2
MAR			SEP		
24...	1312	39.1	21...	1032	40.7



COLLIER COUNTY—Continued

WELL NUMBER.--255637081281401. Local Number C 1065.

LOCATION.--Lat 25°56'40", long 81°28'09", in NE ¼ SW ¼ NW ¼ sec.13, T.52 S., R.28 E., Hydrologic Unit 03090204, 1,000 ft north of U.S. Highway 41 at Big Cypress Bend Indian Reservation, 6.7 mi northwest of State Road 29 on U.S. Highway 41, 24 mi southeast of Naples on U.S. Highway 41.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 50 ft, cased to 27 ft, open hole from 27 to 50 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of casing, 6.42 ft above National Geodetic Vertical Datum of 1929. From October 4. 1993 to June 6, 1994, top of casing was 6.92 ft above NGVD. From October 1991 to September 1993, top of casing was 6.95 ft above NGVD. Prior to October 1991, top of casing was 7.07 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 3.4 ft above NGVD.

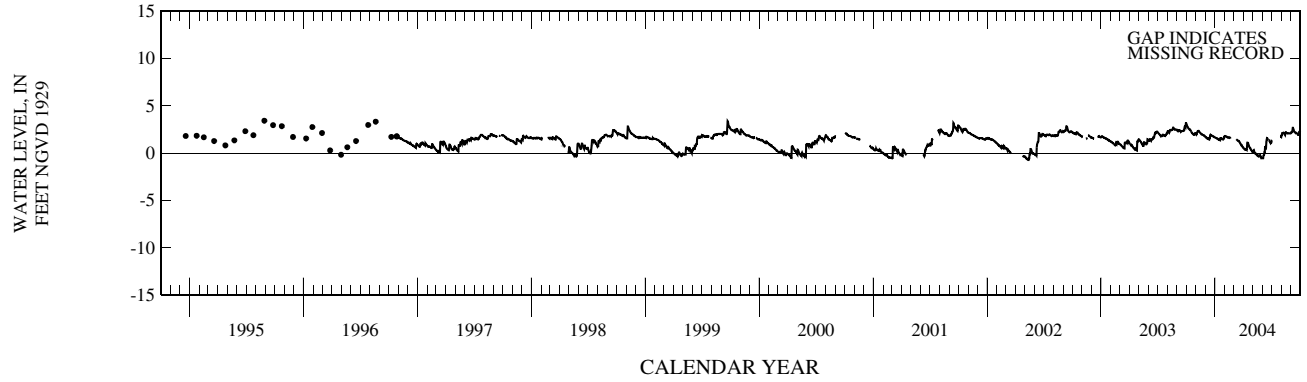
REMARKS.--Well is also used for salinity monitoring. Well damaged September 1993, repaired June 1994. See DATUM. Well has collapsed or become obstructed at a depth of 37 ft. This depth is within the open interval of the well. Water-level data from this well is considered to be unaffected by the collapse/ obstruction.

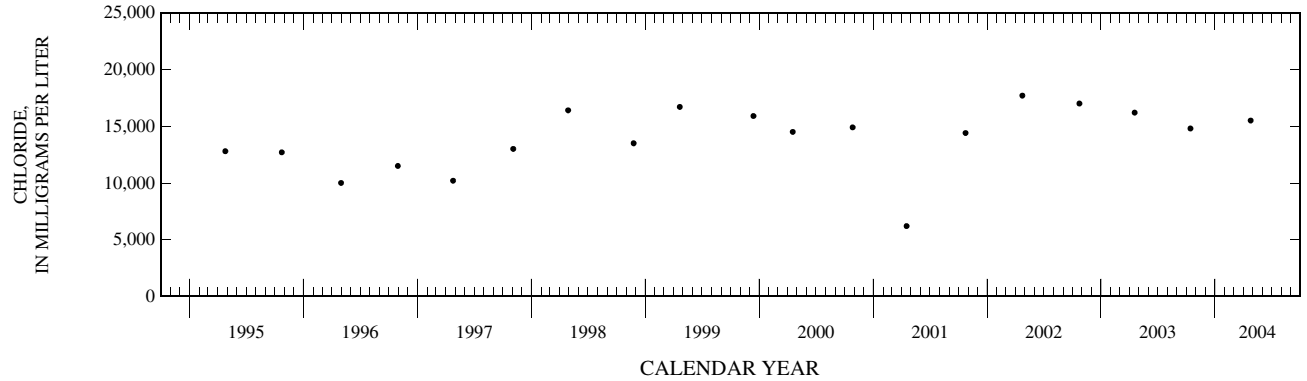
PERIOD OF RECORD.--April 1986 to October 1996 (monthly), October 1996 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.44 ft NGVD, Aug. 28, 1995; lowest daily maximum water level, 0.71 ft below NGVD, May 12, 13, 2002.

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	2.80	2.25	1.64	1.61	1.78	---	0.39	0.22	-0.19	---	2.13	2.38
10	2.54	2.32	1.51	1.53	1.68	1.46	0.39	-0.04	0.68	---	2.04	2.37
15	2.37	2.14	1.63	1.40	1.68	1.30	1.06	-0.24	1.59	---	2.21	2.14
20	2.11	2.00	1.89	1.60	---	1.14	0.66	-0.36	---	---	2.09	2.07
25	1.98	1.90	1.81	1.47	---	0.85	0.38	-0.26	1.18	---	2.12	1.95
EOM	2.08	1.74	1.68	1.80	---	0.59	0.12	-0.52	1.31	1.73	2.11	2.22
MAX	3.11	2.37	1.96	1.80	---	---	1.12	0.34	---	---	2.22	2.69





COLLIER COUNTY—Continued

WELL NUMBER.--255637081281402. Local Number C 1066.

LOCATION.--Lat 25°56'40", long 81°28'09", in NE ¼ SW ¼ NW ¼ sec.13, T.52 S., R.28 E., Hydrologic Unit 03090204, 1,000 ft north of U.S. Highway 41 at Big Cypress Bend Indian Reservation, 6.7 mi northwest of State Road 29 on U.S. Highway 41, 24 mi southeast of Naples on U.S. Highway 41.

AQUIFER.--Lower Tamiami aquifer of the Pliocene Age, Geologic Unit 121 TMIM.

CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 180 ft, cased to 102 ft, 102 ft to 180 ft open hole.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 4.29 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 3.4 ft above NGVD.

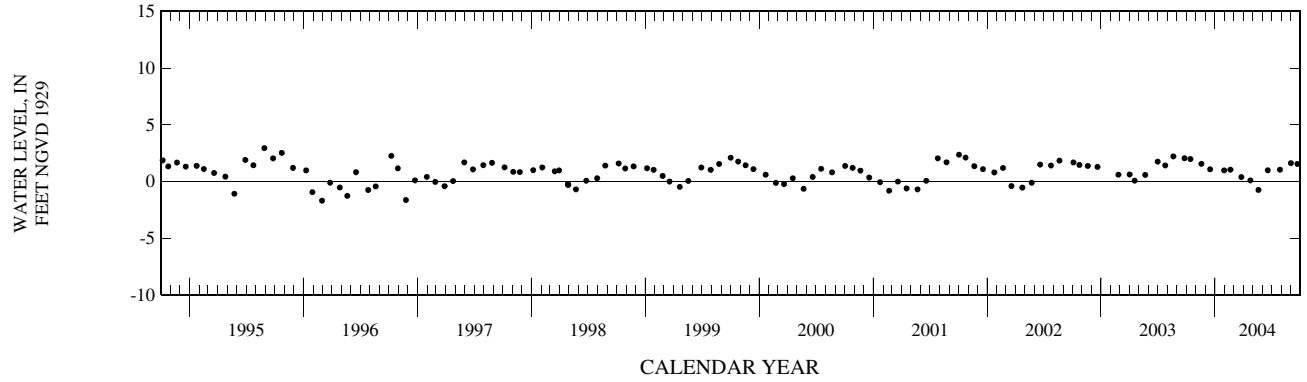
REMARKS.--Well is also used for salinity monitoring. The well was originally open to the aquifer from 102 to 180 ft. The well has become obstructed at a depth of 79 ft. Chloride samples are being collected using a pump. The exact depth from which the chloride-containing water is emanating cannot be further delineated.

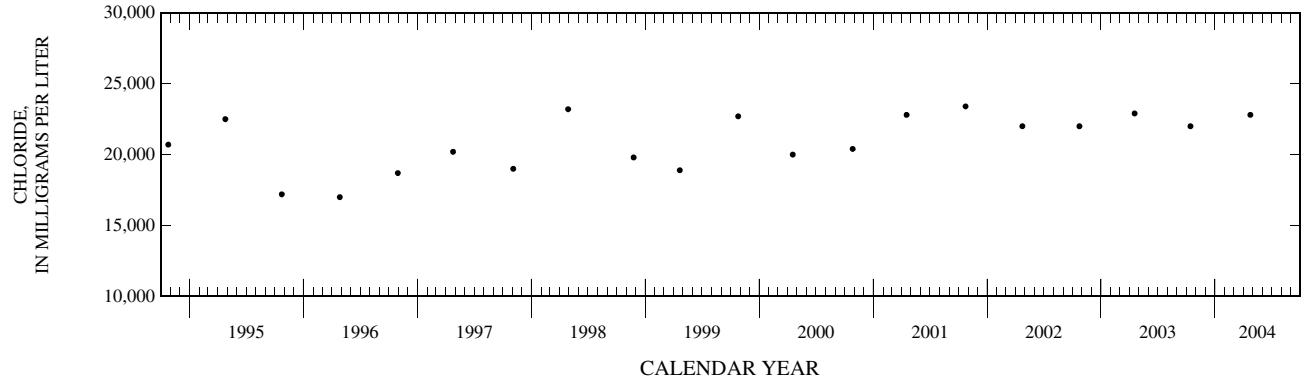
PERIOD OF RECORD.--April 1986 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.95 ft NGVD, Aug. 28, 1995; lowest, 1.82 ft below NGVD, Apr. 24, 1986.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
14...	1347	1.99	60,600	22,000
NOV				
18...	1333	1.57	--	--
DEC				
16...	1451	1.09	--	--
JAN				
30...	1112	.99	--	--
FEB				
19...	1540	1.05	--	--
MAR				
25...	1006	.40	--	--
APR				
23...	1242	.11	60,400	22,800
MAY				
19...	1330	-.73	--	--
JUN				
18...	1014	1.00	--	--
JUL				
27...	1432	1.05	--	--
AUG				
31...	1010	1.63	--	--
SEP				
21...	1048	1.56	--	--





COLLIER COUNTY—Continued

WELL NUMBER.--255703081213801. Local Number C 995.

LOCATION.--Lat 25°57'05", long 81°21'34", in SE ¼ SE ¼ sec.12, T.52 S., R.29 E., Hydrologic Unit 03090204, in Department of Natural Resources building, 200 ft east of Janes Scenic Drive and 0.4 mi north of Copeland.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 37 ft, cased to 28 ft, open hole 28 to 37 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 7.22 ft above National Geodetic Vertical Datum of 1929. From March 1985 to September 1993, top of casing was incorrectly considered to be 8.20 ft above NGVD. From October 1988 to September 1991, top of casing was incorrectly reported to be 10.75 ft above NGVD. The figures of water level as elevation, in feet NGVD, prior to October 1993 are in error. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 6.9 ft above NGVD.

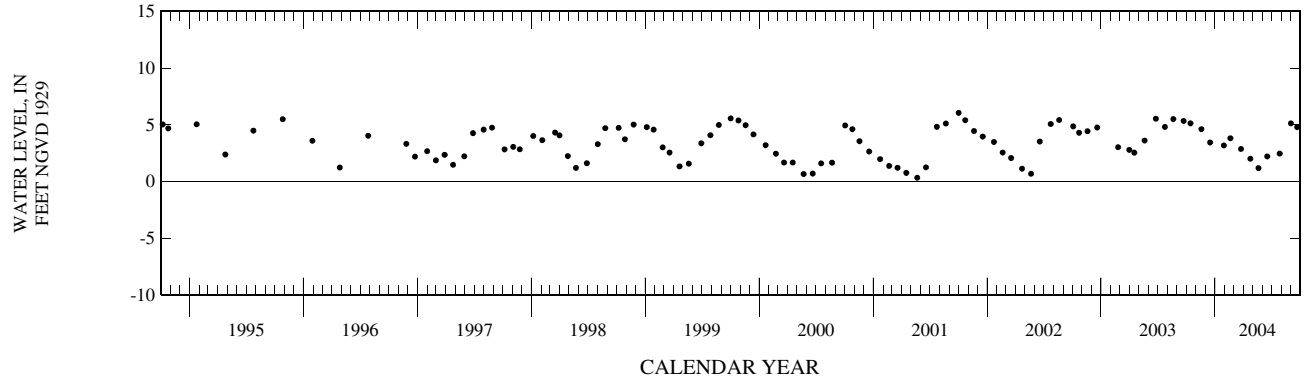
REMARKS.--The figures of water level, as elevation in feet NGVD, prior to October 1993 are in error. A -0.98 ft correction has been applied to correct water-level data from March 1985 to September 1993. Corrected records are in the files of the U.S. Geological Survey. See DATUM.

PERIOD OF RECORD.--March 1985 to September 1994 (monthly), October 1995 to September 1996 (quarterly), October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.06 ft NGVD, Oct. 1, 2001; lowest, 0.25 ft NGVD, May 28, 1985.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
14...	1309	5.14	23...	1433	2.02
NOV			MAY		
18...	1057	4.62	19...	1040	1.19
DEC			JUN		
16...	1138	3.45	16...	1318	2.22
JAN			JUL		
29...	1440	3.19	26...	1512	2.47
FEB			AUG		
19...	1218	3.82	31...	1053	5.13
MAR			SEP		
24...	1248	2.88	20...	1434	4.80



COLLIER COUNTY—Continued

WELL NUMBER.--255748081181801. Local Number C 495.

LOCATION.--Lat 25°57'53", long 81°18'42", in NE ¼ NE ¼ NE ¼ sec.9, T.52 S., R.30 E., Hydrologic Unit 03090204, 25 ft south of County Road 837, 50 ft west of County Road 841, 2.6 mi east of State Road 29, and 4.4 mi north of Ochopee.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 70 ft, cased to 8 ft, open hole 8 to 70 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 10.08 ft above National Geodetic Vertical Datum of 1929. Prior to October 1984, measuring point was top of base, 10.08 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 7.6 ft above NGVD.

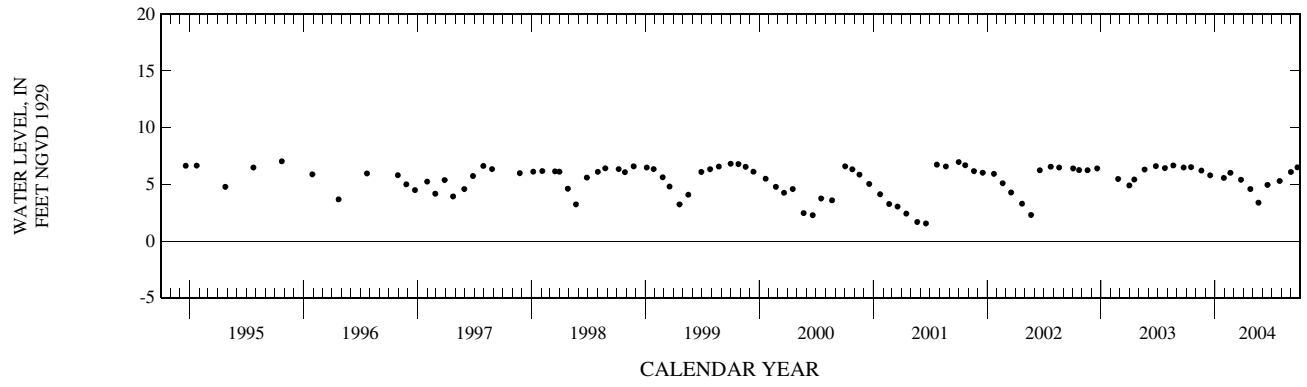
REMARKS.--Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--January 1971 to September 1984 (daily), October 1984 to September 1995 (monthly), October 1995 to September 1996 (quarterly), October 1996 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.34 ft NGVD, Sept. 4, 1983; lowest measured, 0.98 ft NGVD, June 14, 1985.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
16...	1219	6.51	23...	1422	4.58
NOV			MAY		
18...	1125	6.21	19...	1101	3.38
DEC			JUN		
16...	1201	5.79	17...	1342	4.95
JAN			JUL		
29...	1455	5.56	26...	1530	5.29
FEB			AUG		
19...	1241	6.01	31...	0936	6.08
MAR			SEP		
24...	1323	5.40	21...	1014	6.49



COLLIER COUNTY—Continued

WELL NUMBER.--260111081243901. Local Number C 496.

LOCATION.--Lat 26°00'23", long 81°24'39", in NE $^1/_4$ NE $^1/_4$ sec.28, T.51 S., R.29 E., Hydrologic Unit 03090204, 36 ft east of Janes Scenic Drive, 7.1 mi northwest of Copeland and 6.4 mi northwest of fire lookout tower.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 57 ft, cased to 12 ft, open hole 12 to 57 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of recorder shelf, 11.85 ft above National Geodetic Vertical Datum of 1929. From October 1981 to September 1982, top of shelf was incorrectly considered to be 14.62 ft above NGVD. Prior to October 1981, top of shelf was 14.62 ft above NGVD. The figures of water level as elevation, in feet NGVD, from October 1981 to September 1982 are in error. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 10.8 ft above NGVD.

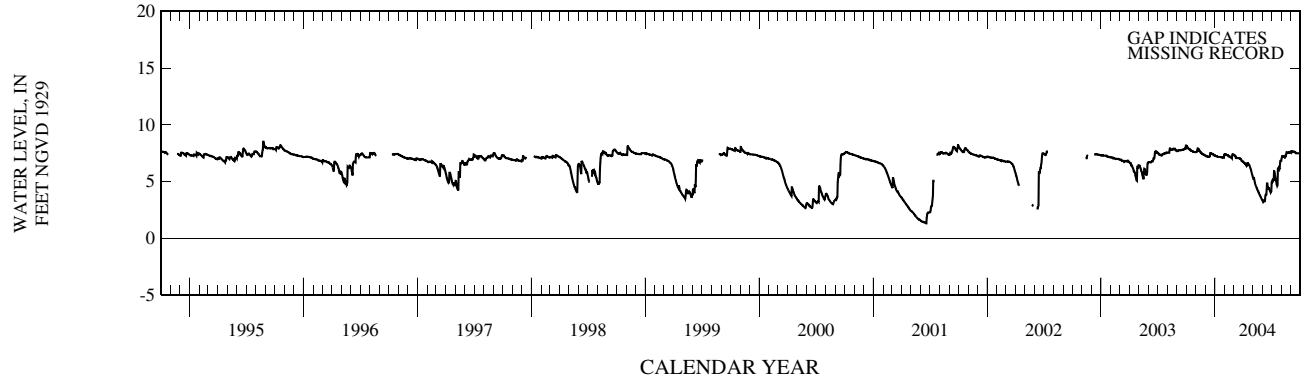
REMARKS.--The figures of water level as elevation, in feet NGVD, from October 1981 to September 1982 are in error. A correction of -2.77 ft has been applied to correct water-level data. Corrected records are in files of the U.S. Geological Survey. See DATUM. Records of water levels prior to October 1975 are available in files of the U.S. Geological Survey. The well was originally open to the aquifer from 12 to 57 ft. The open interval of the well has collapsed at a depth of 36 ft. Water-level data from this well are not considered to be affected by the collapsed interval.

PERIOD OF RECORD.--January 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.52 ft NGVD, Aug. 24, 1995; lowest, 0.95 ft NGVD, May 14, 15, 1975.

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	8.02	7.82	7.24	7.25	7.42	7.27	6.60	5.21	3.33	5.22	7.25	7.63
10	7.86	7.83	7.17	7.18	7.35	7.08	6.44	4.70	3.78	5.74	7.20	7.65
15	7.75	7.64	7.25	7.17	7.21	7.08	6.64	4.31	4.84	4.99	7.36	7.52
20	7.69	7.47	7.50	7.16	7.15	7.07	6.44	4.02	4.29	6.12	7.58	7.50
25	7.61	7.38	7.43	7.10	7.35	6.85	6.03	3.70	4.17	6.13	7.56	7.50
EOM	7.60	7.29	7.32	7.33	7.38	6.74	5.48	3.39	4.90	6.83	7.56	7.50
MAX	8.17	7.92	7.51	7.33	7.43	7.38	6.74	5.38	4.90	6.83	7.60	7.70



COLLIER COUNTY—Continued

WELL NUMBER.--260137081375901. Local Number C 1063.

LOCATION.--Lat 26°01'40", long 81°37'52", in NW ¼ NE ¼ SW ¼ sec.17, T.51 S., R.27 E., Hydrologic Unit 03090204, 50 ft northwest of the end of Hamilton Road 0.45 mi north of U.S. Highway 41, 4.95 mi southeast of State Road 951, 9.0 mi southeast of Collier County Government Center.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 55 ft, cased to 30 ft, open hole from 30 to 55 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of casing, 9.58 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 6.3 ft above NGVD.

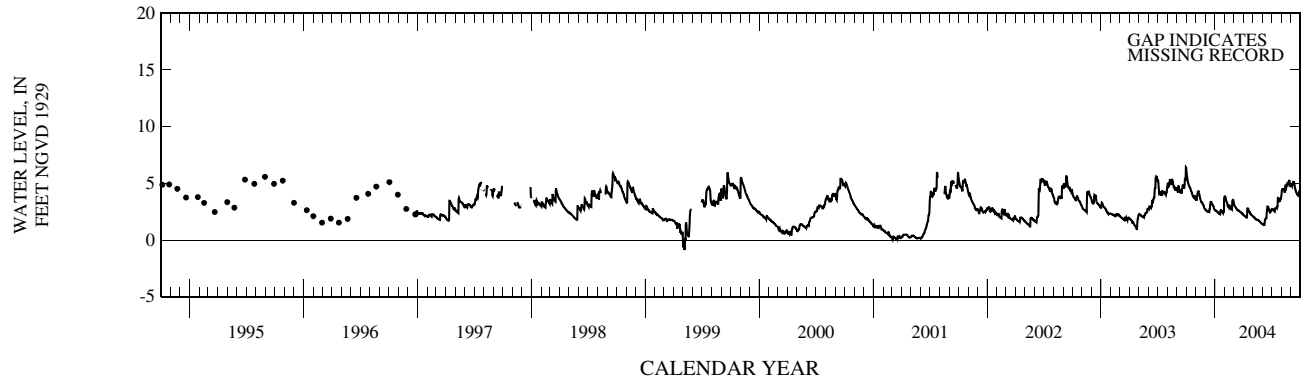
REMARKS.--Well is also used for salinity monitoring. Most of the open-hole portion of this well has collapsed or become obstructed. Chloride samples are being collected from a depth of 37 ft. Data from this well are considered to be unaffected by the collapse/obstruction.

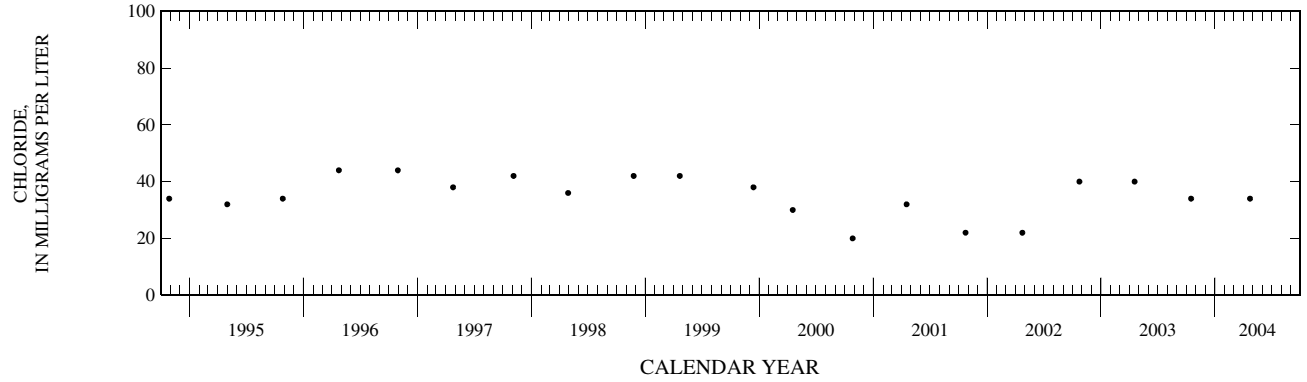
PERIOD OF RECORD.--April 1986 to December 1996 (monthly), December 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 6.41 ft NGVD, Sept. 29, 2003; lowest, 0.88 ft below NGVD, May 06, 1999.

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	5.24	3.99	2.58	2.57	3.50	2.94	2.11	2.01	1.34	2.70	4.46	4.86
10	4.77	4.20	2.51	2.42	3.01	2.76	2.01	1.85	1.85	2.52	4.28	5.10
15	4.43	3.61	2.76	2.32	3.06	2.60	2.78	1.78	2.66	2.83	4.68	4.35
20	4.02	3.32	3.32	2.63	2.79	2.50	2.44	1.69	2.88	3.72	4.99	4.03
25	3.72	3.06	3.07	2.40	3.42	2.40	2.25	1.57	2.44	3.44	5.23	4.14
EOM	3.69	2.69	2.65	3.74	3.40	2.26	2.11	1.43	2.62	3.78	4.95	4.26
MAX	5.97	4.30	3.35	3.74	3.85	3.30	2.78	2.09	2.96	3.78	5.23	5.10





COLLIER COUNTY—Continued

WELL NUMBER.--260137081375902. Local Number C 1064.

LOCATION.--Lat 26°01'40", long 81°37'58", in NW ¼ NE ¼ SW ¼ sec.17, T.51 S., R.27 E., Hydrologic Unit 03090204, 50 ft northwest of the end of Hamilton Road, 0.45 mi north of U.S. Highway 41, 4.95 mi southeast of State Road 951, 9.0 mi southeast of Collier County Government Center.

AQUIFER.--Lower Tamiami aquifer of the Pliocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 4 in., depth 120 ft, cased to 84 ft, open hole 84 to 120 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 9.98 ft above National Geodetic Vertical Datum of 1929. From October 1996 to September 1997, measuring point was incorrectly considered to be top of shelf, 10.07 ft above NGVD. Prior to October 1996, measuring point was top of shelf 10.07 ft above NGVD. The figures of water level as elevation, in feet NGVD, from October 1996 to September 1997 are in error. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 6.1 ft above NGVD.

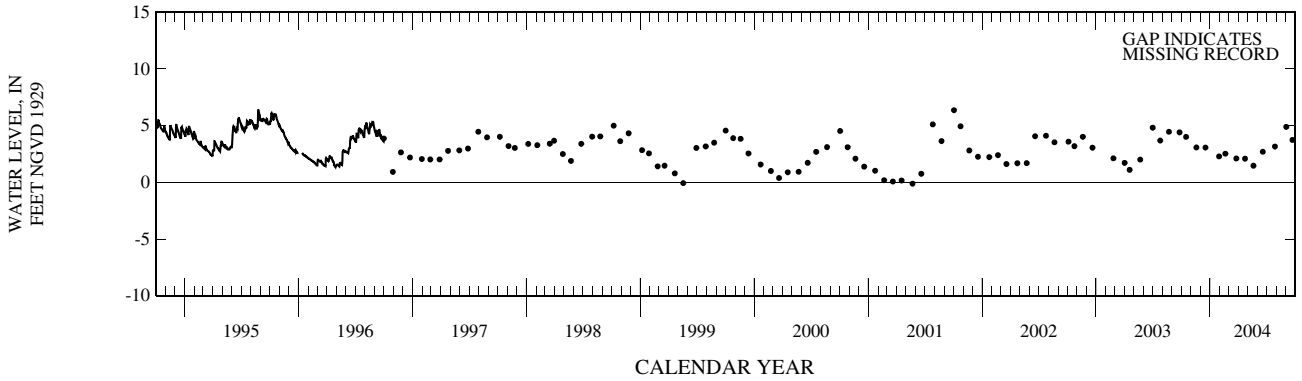
REMARKS.--The figures of water levels as elevation, in feet NGVD, for the period October 1996 to September 1997 are in error. Elevations had been computed based on the top of shelf measuring point after the shelf had been removed. A -0.09 ft correction has been applied to correct water level data from October 1996 to September 1997. Corrected records are in files of the U.S. Geological Survey. See DATUM.

PERIOD OF RECORD.--November 1986 to September 1996 (daily), October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level 6.35 ft NGVD, Aug. 24, 25, 1995 and highest water level measured, 6.35 ft NGVD, Oct. 2, 2001; lowest water level measured, 0.12 ft below NGVD, May 22, 2001.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
16...	1252	4.00	22...	1628	2.08
NOV			MAY		
18...	1404	3.07	19...	1342	1.46
DEC			JUN		
17...	0903	3.06	18...	1040	2.69
JAN			JUL		
30...	1140	2.28	27...	1508	3.15
FEB			SEP		
19...	1603	2.52	01...	0947	4.88
MAR			21...	1111	3.73
25...	1027	2.10			



COLLIER COUNTY—Continued

WELL NUMBER.--260224081394301. Local Number C 1186.

LOCATION.--Lat 26°03'03", long 81°39'16", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.6, T.51 S., R.27 E., Hydrologic Unit 03090204, 30 ft east of Greenway Road, 1.15 mi north of U.S. Highway 41 and 11 mi southeast of Naples.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 122 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 32.5 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 7.10 ft above National Geodetic Vertical Datum of 1929. From June 1989 to September 1998, top of casing was incorrectly considered to be 10.10 ft above NGVD. Prior to June 1989, top of casing was 10.10 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 6.8 ft above NGVD.

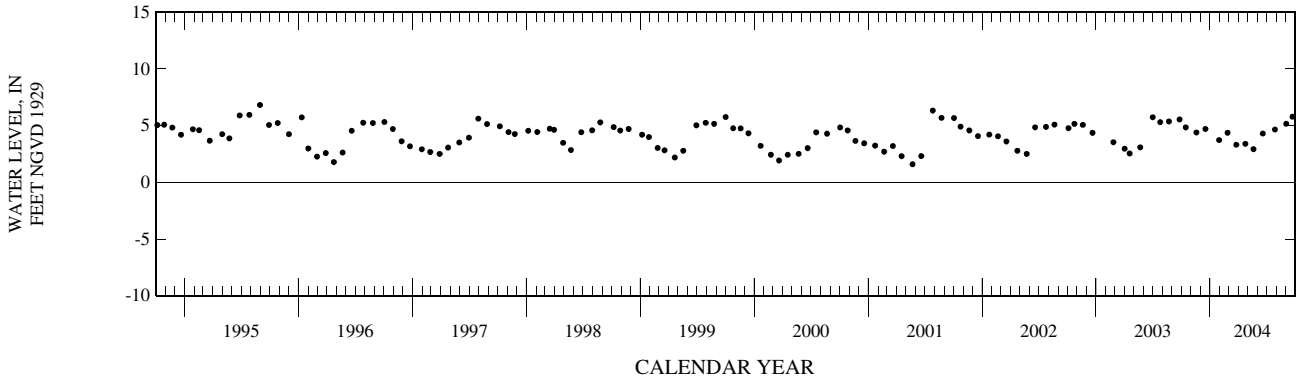
REMARKS.--Well is also used for salinity monitoring. Prior to October 1998, the well was incorrectly considered to be C-975. All of the data published under C-975 is available under C-1186. The figures of water level as elevation, in feet NGVD from June 1989 to September 1998, are in error. A -3.00 ft correction has been applied to correct water-level data from June 1989 to September 1998. Corrected records are available in files of the U.S. Geological Survey. See DATUM.

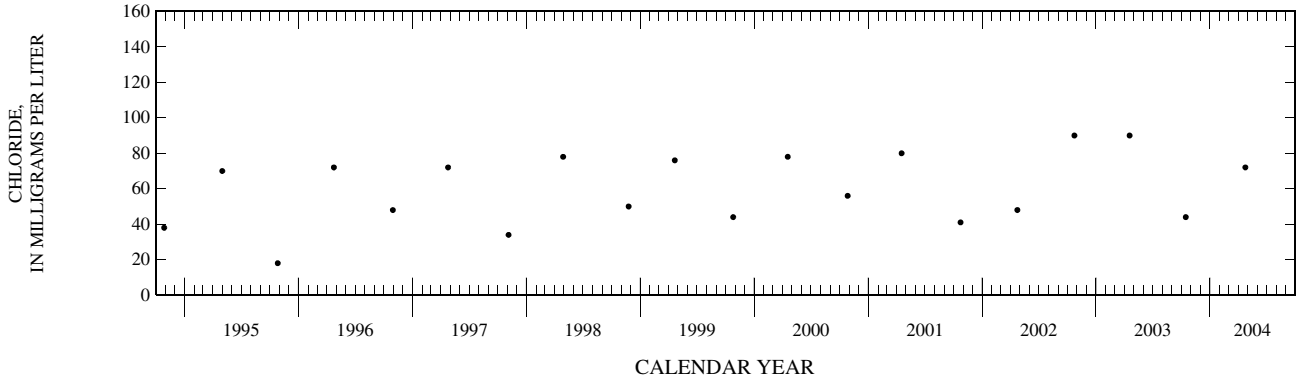
PERIOD OF RECORD.--October 1984 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.81 ft NGVD, Aug. 30, 1995; lowest, 0.65 ft below NGVD, Mar. 28, 1985.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
15...	0841	4.84	585	44.0
NOV				
18...	1418	4.39	--	--
DEC				
17...	0924	4.70	--	--
JAN				
30...	1150	3.72	--	--
FEB				
26...	1234	4.36	--	--
MAR				
25...	1041	3.31	--	--
APR				
23...	1120	3.39	734	72.0
MAY				
19...	1426	2.92	--	--
JUN				
18...	1055	4.30	--	--
JUL				
27...	1519	4.65	--	--
SEP				
01...	1024	5.16	--	--
21...	1122	5.78	--	--





COLLIER COUNTY—Continued

WELL NUMBER.--260251081412801. Local Number C 1092.

LOCATION.--Lat 26°02'51", long 81°41'29", in SW ¼ NE ¼ NE ¼ sec.10, T.51 S., R.26 E., Hydrologic Unit 03090204, 25 ft north of Manatee Road, 0.5 mi east of State Road 951, 1.1 mi south of Tamiami Trail (U.S. Highway 41).

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 19 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of 4 in. PVC casing, 7.73 ft above National Geodetic Vertical Datum of 1929.

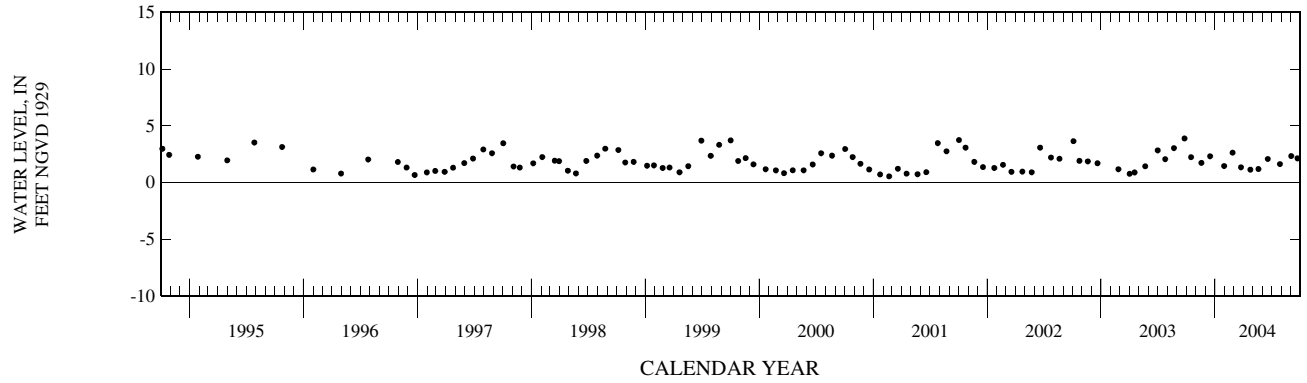
LAND-SURFACE DATUM.--Land surface is approximately 5.0 ft above NGVD.

PERIOD OF RECORD.--July 1993 to September 1994 (monthly), October 1994 to September 1996 (quarterly), October 1996 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.89 ft NGVD, Sept. 25, 2003; lowest, 0.55 ft NGVD, Feb. 20, 2001.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
16...	1410	2.24	23...	1010	1.14
NOV			MAY		
18...	1450	1.74	19...	1359	1.20
DEC			JUN		
16...	0958	2.32	18...	1124	2.08
JAN			JUL		
30...	1245	1.46	27...	1550	1.63
FEB			SEP		
26...	1255	2.64	01...	1110	2.34
MAR			21...	1134	2.14
24...	1500	1.35			



COLLIER COUNTY—Continued

WELL NUMBER.--260309081272601. Local Number C 987

LOCATION.--Lat 26°03'10", long 81°27'25", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.6, T.51 S., R.29 E., Hydrologic Unit 03090204, 35 ft north of Janes Scenic Drive, 35 ft east of canal 5 mi east of Everglades Boulevard and 9.5 mi northwest of Copeland.

AQUIFER.--Mid-Hawthorn aquifer of the Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 370 ft, cased to 280 ft, open hole 280 to 370 ft.

INSTRUMENTATION.--Electronic data logger. Prior to November 1996, monthly measurement with pressure gauge.

DATUM.--Measuring point: Top of 3/4 PVC elbow, 12.52 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 9.4 ft above NGVD.

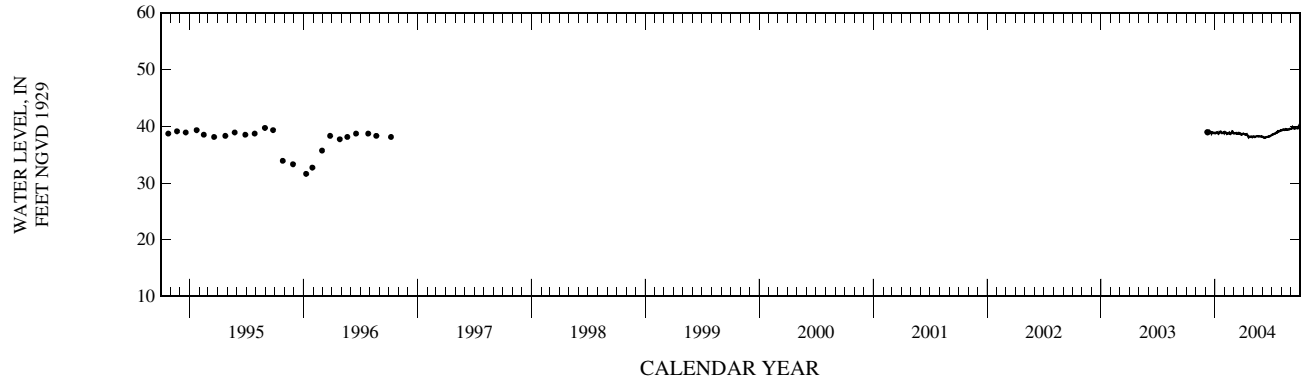
REMARKS.--Well was destroyed August 2002, well reconstructed December 2003.

PERIOD OF RECORD.--October 1984 to October 1996 (monthly), December 2003 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 47.30 ft NGVD, Oct. 5, 1988; lowest, 31.70 ft NGVD, May 23, 1994.

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	---	---	---	38.90	38.78	38.78	38.57	38.15	38.01	38.58	39.35	39.88
10	---	---	39.02	38.94	38.73	38.79	38.50	38.15	38.02	38.65	39.32	39.58
15	---	---	38.89	38.88	38.89	38.73	38.27	38.26	38.10	38.84	39.42	39.64
20	---	---	38.82	38.97	38.78	38.66	38.17	38.19	38.21	39.10	39.36	39.66
25	---	---	38.86	38.84	39.09	38.51	38.12	38.23	38.25	39.09	39.42	39.92
EOM	---	---	38.76	38.96	38.73	38.68	38.12	38.18	38.43	39.24	39.51	39.69
MAX	---	---	---	39.07	39.09	38.85	38.70	38.26	38.43	39.30	39.54	40.03



COLLIER COUNTY—Continued

WELL NUMBER.--260334081391601. Local Number C 968.

LOCATION.--Lat 26°03'37", long 81°39'15", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.1, T.51 S., R.26 E., Hydrologic Unit 03090204, 150 ft west of Greenway Road, in drainage divide 1.75 mi north of U.S. Highway 41 and 11 mi southeast of Naples.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 23 ft, cased to 8 ft, open hole 8 to 23 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of flange, 9.91 ft above National Geodetic Vertical Datum of 1929. Prior to October 2001, measuring point was incorrectly considered to be top of shelf, 9.35 ft above NGVD. The figures of water level as elevation, in feet NGVD, prior to October 2001 are in error. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 7.2 ft above NGVD.

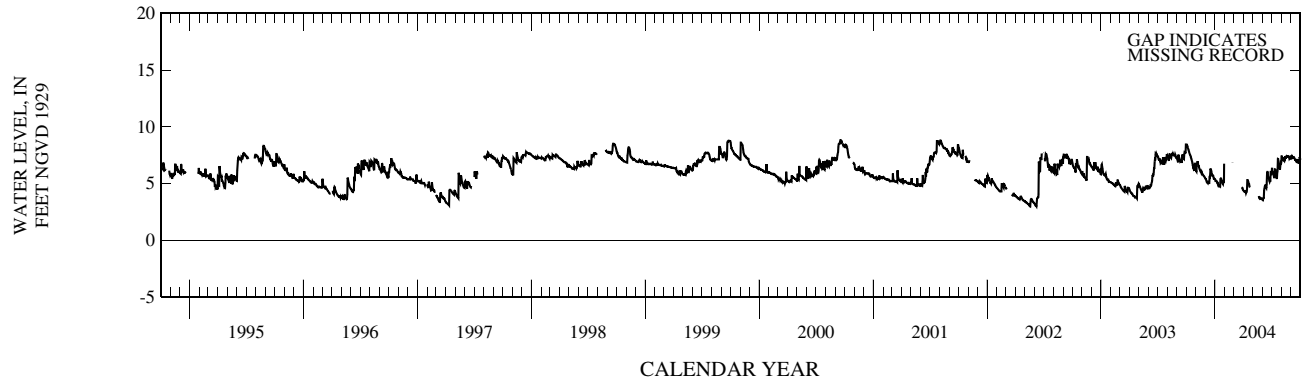
REMARKS.--The figures of water level as elevations, in feet NGVD, prior to October 2001 are in error. A +0.56 ft correction has been applied to correct water level data. Corrected records are in the files of the U.S. Geological Survey. See DATUM. The well was originally open to the aquifer from 8 to 23 ft. The open interval of the well has collapsed or become obstructed at a depth of 9.3 ft. Water-level data from this well are not considered to be affected by the collapsed interval. Corrected records are in the files of the U.S. Geological Survey. See DATUM.

PERIOD OF RECORD.--October 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.82 ft NGVD (present datum), Sept. 17, 18, 2000; lowest, 2.56 ft NGVD (present datum), June 2, 1989 (estimated).

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	8.22	6.87	5.16	5.24	---	---	4.27	---	3.74	5.95	7.20	7.38
10	7.76	6.48	5.13	5.02	---	---	4.23	---	4.83	5.87	7.01	7.33
15	7.35	6.09	5.54	4.79	---	---	5.28	---	5.77	5.67	7.34	7.09
20	6.81	5.95	6.01	5.44	---	---	4.78	3.91	5.55	7.17	7.36	6.88
25	6.39	5.69	5.72	4.99	---	---	---	3.75	5.25	6.56	7.38	6.96
EOM	6.23	5.47	5.41	---	---	4.42	---	3.61	5.83	6.83	7.39	7.09
MAX	8.45	6.97	6.33	---	---	---	---	---	6.04	7.17	7.41	7.42



COLLIER COUNTY—Continued

WELL NUMBER.--260549081441901. Local Number C 600.

LOCATION.--Lat 26°05'52", long 81°44'19", in NW $^1/_4$ SE $^1/_4$ sec.19, T.50 S., R.26 E., Hydrologic Unit 03090204, at northeast corner of the intersection of Saint Andrews Boulevard and U.S. Highway 41, 4.2 mi northwest of Belle Meade and 5.0 mi southeast of Naples.

AQUIFER.--Lower Tamiami aquifer of the Pliocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 52 ft, cased to 48 ft, slotted 48 to 52 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of 4 in. PVC coupling, 8.65 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 5.4 ft above NGVD.

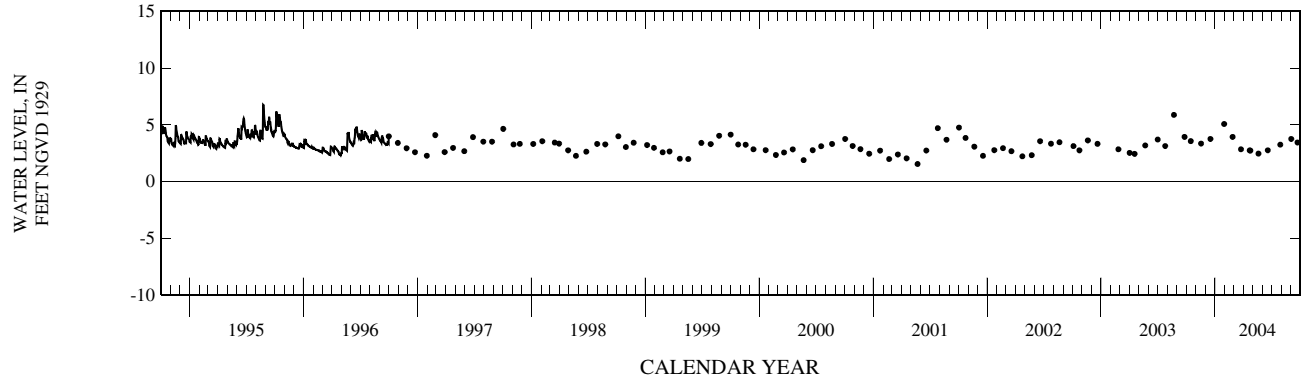
REMARKS.--Well is also used for salinity monitoring. The minimum for period of record in 1988 is a measured water level, not the recorded daily maximum water level.

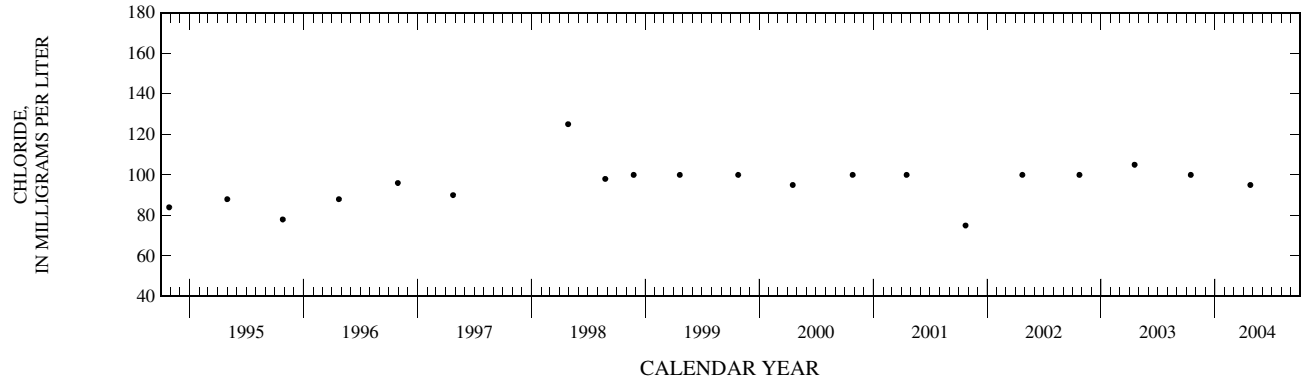
PERIOD OF RECORD.--October 1980 to September 1996 (daily), October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 6.77 ft NGVD, Aug. 24, 1995; lowest water level measured, 0.99 ft NGVD, Aug. 29, 1988.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
15...	0909	3.57	901	100
NOV				
17...	1353	3.35	--	--
DEC				
17...	1013	3.76	--	--
JAN				
30...	1300	5.08	--	--
FEB				
26...	1330	3.94	--	--
MAR				
24...	1517	2.85	--	--
APR				
21...	1500	2.75	--	--
23...	0924	2.73	884	95.0
MAY				
19...	1409	2.47	--	--
JUN				
18...	1135	2.76	--	--
JUL				
28...	0830	3.26	--	--
SEP				
01...	1205	3.76	--	--
21...	1148	3.45	--	--





COLLIER COUNTY-Continued

WELL NUMBER.--260405081414101. Local Number C 1224.

LOCATION.--Lat 26°04'05", long 81°41'41", in NE ¼ NE ¼ NW ¼ sec.03, T.51 S., R.26 E., Hydrologic Unit 03090204, approximately 500 ft east of State Road 951 and 0.5 mi north of Tamiami Trail (U.S. Highway 41).

AQUIFER.--Lower Tamiami aquifer of the Pliocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 2 in., depth 157 ft, cased to 123 ft, screened 123 to 157 ft.

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

DATUM.--Measuring point: Top of 2 in. PVC casing, 8.29 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 5.8 ft above NGVD.

REMARKS.--Geologic maps available for delineating aquifers in this are not in agreement concerning the depths of aquifers.

PERIOD OF RECORD.--August 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 6.79 ft NGVD, Sept. 29, 2003; lowest, 0.36 ft below NGVD, May 18, 2002.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	---	---	---	4.59
10	---	---	---	---	---	---	---	---	---	---	---	5.30
15	---	---	---	---	---	---	---	---	---	---	---	5.42
20	---	---	---	---	---	---	---	---	---	---	---	5.10
25	---	---	---	---	---	---	---	---	---	---	---	4.63
EOM	---	---	---	---	---	---	---	---	---	---	4.62	6.20
MAX	---	---	---	---	---	---	---	---	---	---	---	6.24

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.15	4.08	3.00	2.66	2.19	2.13	0.92	0.20	-0.25	4.19	3.86	4.85
10	4.58	4.02	2.87	2.59	2.04	2.01	0.84	-0.06	0.12	5.11	3.41	4.86
15	4.96	3.95	2.70	2.72	1.82	1.81	0.75	-0.26	2.28	4.52	3.59	4.92
20	4.82	3.84	2.57	2.64	2.39	1.60	0.76	-0.13	3.04	4.20	3.76	4.57
25	4.61	3.63	2.48	2.52	2.44	1.39	0.64	-0.22	4.12	4.08	3.71	4.43
EOM	4.20	3.34	2.65	2.35	2.33	1.12	0.46	-0.03	4.62	3.85	3.84	4.33
MAX	6.04	4.17	3.27	2.73	2.54	2.28	1.06	0.42	4.67	5.27	3.86	5.24

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MAXIMUM VALUES

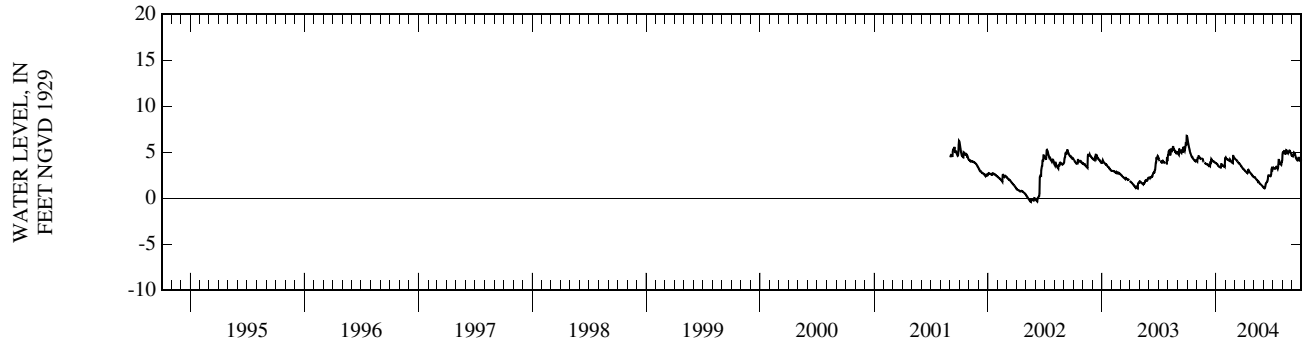
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.03	3.66	4.22	3.99	2.98	2.47	1.72	1.76	2.30	---	5.23	5.31
10	3.79	3.51	4.55	3.78	2.91	2.29	1.54	1.61	2.36	3.94	5.25	5.03
15	4.17	3.30	4.60	3.65	2.76	2.13	1.31	1.64	2.78	4.07	5.33	5.10
20	4.01	4.65	4.32	3.42	2.73	2.15	1.27	1.96	3.11	3.88	5.30	5.54
25	3.97	4.60	4.12	3.21	2.71	2.01	1.06	1.95	4.38	3.78	5.00	5.58
EOM	3.80	4.37	3.84	2.99	2.62	1.89	1.80	2.22	4.40	4.65	4.95	6.77
MAX	4.26	4.82	4.71	4.14	2.98	---	1.83	2.24	4.59	---	5.58	6.79

COLLIER COUNTY-Continued

WELL NUMBER.--260405081414101. Local Number C 1224.-Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.78	4.36	3.68	3.72	4.27	4.20	2.93	2.28	1.08	3.25	5.02	4.73
10	5.06	4.42	3.62	3.49	4.17	4.00	2.77	2.02	1.67	3.31	4.83	4.87
15	4.58	4.25	3.85	3.37	4.23	3.78	3.03	1.82	2.05	3.33	5.05	4.30
20	4.28	4.25	4.11	3.66	3.95	3.60	2.77	1.63	2.49	4.18	4.98	4.12
25	4.07	3.85	3.99	3.50	4.62	3.34	2.58	1.47	2.46	3.74	5.17	4.14
EOM	4.05	3.74	3.85	4.40	4.38	3.10	2.35	1.24	3.14	4.05	4.65	4.11
MAX	6.62	---	4.27	4.40	4.62	4.35	3.10	2.34	3.24	4.18	5.24	4.97



COLLIER COUNTY-Continued

WELL NUMBER.--260405081414102. Local Number C 1225.

LOCATION.--Lat 26°04'05", long 81°41'41", in NE ¼ NE ¼ NW ¼ sec.03, T.51 S., R.26 E., Hydrologic Unit 03090204, approximately 500 ft east of State Road 951, and 0.5 mi north of Tamiami Trail (U.S. Highway 41).

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 2 in., depth 67 ft, cased to 63 ft, screened 63 to 67 ft.

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

DATUM.--Measuring point: Top of 2 in. PVC casing, 8.46 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 5.3 ft above NGVD.

REMARKS.--Geologic maps available for delineating aquifers in this are not in agreement concerning the depths of aquifers. By some maps this well may be open to the lower Tamiami aquifer of the Pliocene Age.

PERIOD OF RECORD.--August 2001 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.08 ft NGVD, Sept. 29, 2003; lowest, 1.69 ft below NGVD, June 6, 2002.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	---	---	---	4.43
10	---	---	---	---	---	---	---	---	---	---	---	5.29
15	---	---	---	---	---	---	---	---	---	---	---	5.43
20	---	---	---	---	---	---	---	---	---	---	---	5.13
25	---	---	---	---	---	---	---	---	---	---	---	4.65
EOM	---	---	---	---	---	---	---	---	---	---	4.57	6.42
MAX	---	---	---	---	---	---	---	---	---	---	---	6.42

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.48	4.04	2.55	2.05	1.61	1.46	0.05	-0.84	-1.51	4.17	3.52	4.67
10	4.86	4.07	2.26	1.99	1.42	1.31	0.05	-1.13	-0.70	5.29	2.98	4.85
15	5.21	4.01	2.14	2.11	1.16	1.08	-0.06	-1.09	1.35	4.71	3.09	4.95
20	5.16	3.87	2.08	2.06	1.68	0.85	-0.02	-1.41	2.28	4.33	3.39	4.53
25	4.76	3.53	2.01	1.94	1.74	0.59	-0.15	-0.99	3.57	4.06	3.25	4.35
EOM	4.22	3.07	2.03	1.76	1.63	0.21	-0.37	-0.77	4.36	3.65	3.43	4.22
MAX	6.32	4.17	2.97	2.12	1.84	1.59	0.12	-0.44	4.41	5.30	3.53	5.18

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MAXIMUM VALUES

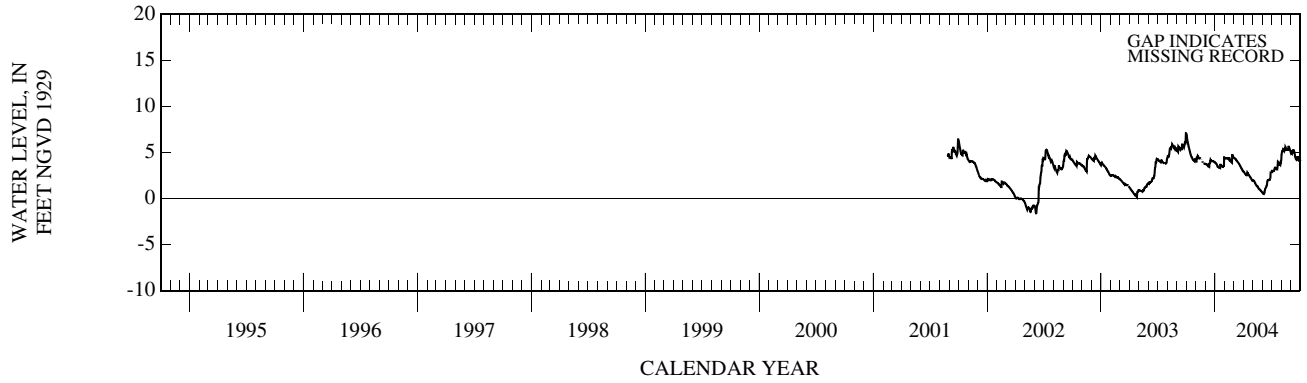
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	3.92	3.47	4.16	3.78	2.55	1.99	1.02	0.87	1.78	4.10	4.61	5.67
10	3.65	3.21	4.52	3.57	2.50	1.79	0.82	0.81	1.82	3.96	5.42	5.38
15	4.01	2.92	4.54	3.36	2.32	1.60	0.56	0.86	2.18	4.07	5.58	5.39
20	3.82	4.43	4.23	3.09	2.28	1.54	0.44	1.17	2.45	3.88	5.67	5.80
25	3.78	4.56	3.98	2.77	2.24	1.45	0.16	1.30	3.91	3.77	5.42	5.87
EOM	3.63	4.36	3.62	2.45	2.14	1.29	0.89	1.64	4.24	4.32	5.30	7.06
MAX	4.16	4.62	4.66	3.91	2.55	---	1.22	1.64	4.29	---	5.91	7.08

COLLIER COUNTY-Continued

WELL NUMBER.--260405081414102. Local Number C 1225.-Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.18	4.38	3.70	3.77	4.37	4.33	2.75	1.92	0.50	2.96	5.23	5.11
10	5.39	4.42	3.64	3.46	4.37	4.14	2.55	1.57	1.09	3.31	5.16	5.16
15	4.72	4.36	3.77	3.34	4.46	3.89	2.71	1.35	1.53	3.25	5.48	4.40
20	4.34	---	4.10	3.58	4.06	3.63	2.46	1.07	2.01	4.02	5.44	4.18
25	4.11	3.78	4.06	3.46	4.80	3.30	2.22	0.92	2.11	3.66	5.54	4.16
EOM	4.06	3.77	3.94	4.44	4.47	2.96	1.95	0.67	2.76	4.16	4.93	4.05
MAX	7.01	---	4.20	4.45	4.80	4.46	2.94	1.95	---	4.16	5.70	5.32



COLLIER COUNTY—Continued

WELL NUMBER.--260632081324702. Local Number C 690.

LOCATION.--Lat 26°06'34", long 81°32'35", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.12, T.50 S., R.28 E., Hydrologic Unit 03090204, 30 ft southeast of the intersection of 70th Street and Everglades Boulevard, 3.1 mi south of U.S. Interstate 75, 8.5 mi northeast of Royal Palm Hammock and 15.7 mi east of Naples.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 48 ft, cased to 43 ft, screened 43 to 48 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of recorder shelf, 11.84 ft above National Geodetic Vertical Datum of 1929. From February 1994 to August 25, 1998, top of shelf was 11.87 ft above NGVD. From October 1989 to February 1994, measuring point was top of casing, 13.10 ft above NGVD. From October 1980 to September 1989, measuring point was top of shelf, 11.46 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 9.1 ft above NGVD.

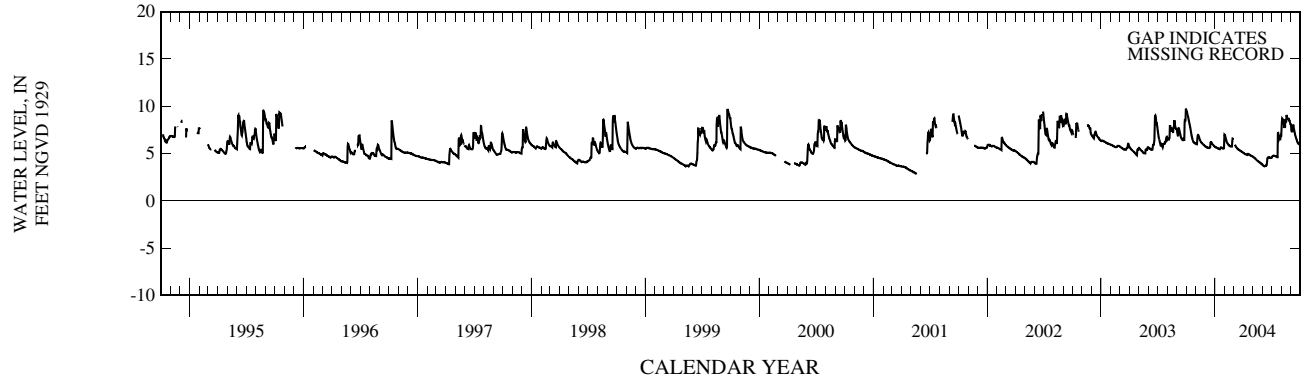
REMARKS.--The station was repaired August 25, 1998. See DATUM.

PERIOD OF RECORD.--October 1980 to June 1992 (daily), July 1992 to January 1994 (monthly), February 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 10.07 ft NGVD, July 24, 25, 1985; lowest, 2.50 ft NGVD, June 22, 1989, May 15, 20, 21, 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	9.10	6.62	5.67	5.64	6.49	5.88	4.98	4.57	3.70	4.76	8.32	7.40
10	8.29	6.78	5.61	5.56	6.08	5.63	4.88	4.42	3.69	4.75	7.71	7.56
15	7.36	6.33	5.63	5.50	5.84	5.44	4.97	4.26	4.06	4.69	8.39	6.83
20	6.52	6.10	6.17	5.65	5.77	5.34	4.86	4.12	4.62	7.16	8.71	6.27
25	6.17	5.93	5.94	5.57	6.31	5.21	4.78	4.02	4.56	6.59	8.64	6.01
EOM	6.05	5.78	5.73	7.02	---	5.09	4.69	3.84	4.55	6.94	8.05	5.96
MAX	9.59	6.96	6.23	7.02	---	---	5.07	4.67	4.62	7.17	9.06	7.99



COLLIER COUNTY—Continued

WELL NUMBER.--260640081204301. Local Number C 296.

LOCATION.--Lat 26°06'45", long 81°20'42", in SE ¼ SE ¼ sec.18, T.50 S., R.30 E., Hydrologic Unit 03090204, west of State Road 29, 3 mi south of U.S. Interstate 75, and 10.8 mi north of Copeland.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 45 ft, cased to 8 ft, open hole 8 to 45 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of casing, 18.16 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 14.3 ft above NGVD.

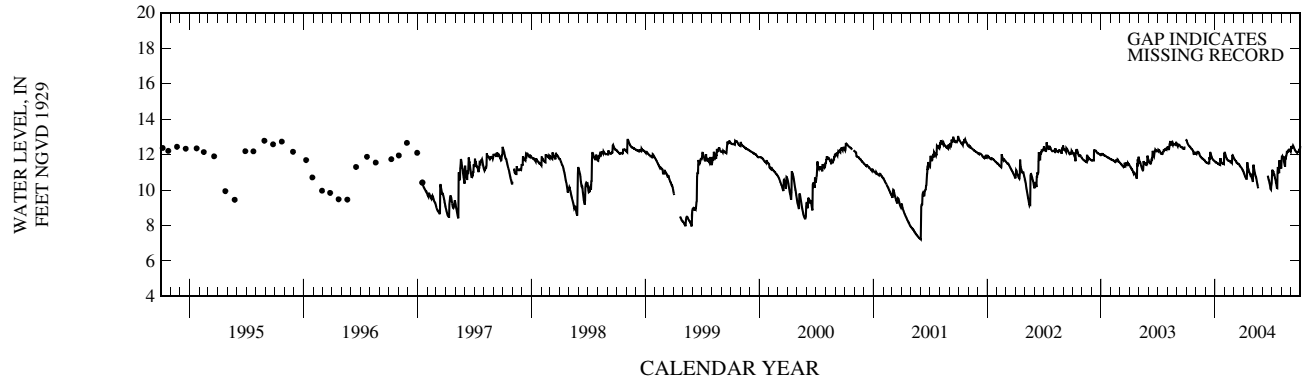
REMARKS.--Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--June 1959 to November 1984 (daily), November 1984 to December 1996 (monthly), January 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 14.06 ft NGVD, Sept. 12, 1960; lowest, 6.19 ft NGVD, June 4, 1974.

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	12.64	12.16	11.54	11.55	11.89	11.68	10.84	11.15	---	11.05	11.86	12.40
10	12.47	12.10	11.53	11.50	11.69	11.54	10.65	10.78	---	10.78	11.49	12.39
15	12.38	11.90	11.71	11.45	11.65	11.48	11.27	10.36	---	10.35	11.82	12.19
20	12.26	11.80	11.90	11.58	11.56	11.38	11.01	---	10.64	11.30	12.13	12.09
25	12.03	11.72	11.73	11.50	11.95	11.25	10.88	---	10.24	11.68	12.28	12.16
EOM	12.08	11.63	11.62	12.03	11.86	11.07	10.55	---	10.33	11.22	12.29	12.48
MAX	12.81	12.16	12.15	12.03	12.15	11.80	11.56	---	---	11.68	12.29	12.51



COLLIER COUNTY—Continued

WELL NUMBER.--260813081214302. Local Number C 1070.

LOCATION.--Lat 26°09'15", long 81°21'43", in NE 1/4 NE 1/4 sec.1, T.50 S., R.29 E., Hydrologic Unit 03090204, 45 ft south of Alligator Alley (U.S. Interstate 75), 1.0 mi west of State Road 29 on U.S. Interstate 75, 7.9 mi southwest of Sunniland.

AQUIFER.--Lower Tamiami aquifer of Miocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 205 ft, cased to 100 ft, 100 to 205 ft of open hole.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 17.40 ft above National Geodetic Vertical Datum of 1929.

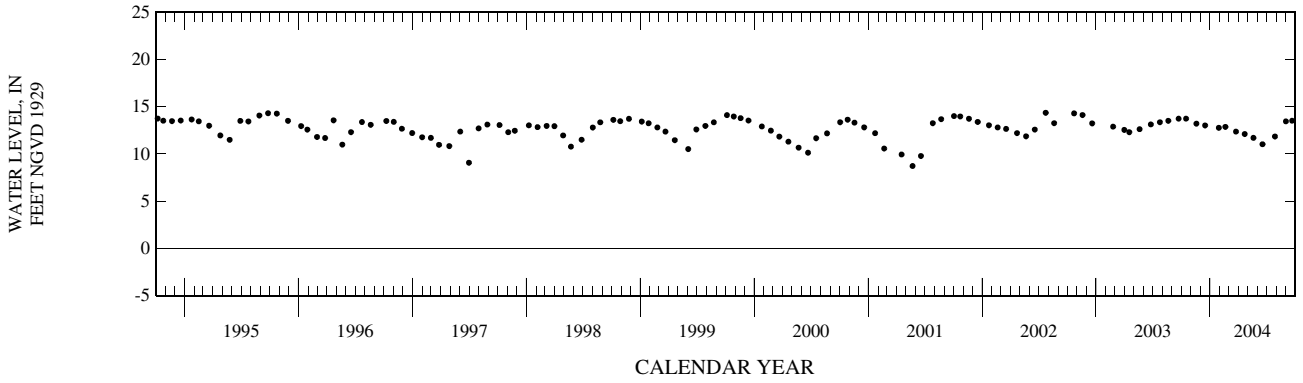
LAND-SURFACE DATUM.--Land surface is approximately 14.6 ft above NGVD.

PERIOD OF RECORD.--April 1986 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.35 ft NGVD, Aug. 19, 2002; lowest, 7.10 ft NGVD, June 26, 1989.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
16...	1006	13.73	21...	1339	12.10
NOV			MAY		
18...	1210	13.20	19...	1148	11.70
DEC			JUN		
16...	1324	13.01	17...	1443	11.02
JAN			JUL		
29...	1040	12.76	27...	1245	11.84
FEB			AUG		
19...	1414	12.86	31...	0834	13.44
MAR			SEP		
24...	1408	12.36	20...	1210	13.51



COLLIER COUNTY—Continued

WELL NUMBER.--260843081324201. Local Number C 973.

LOCATION.--Lat 26°08'43", long 81°32'38", in SW $^1/_4$ NE $^1/_4$ sec.6, T.50 S., R.28 E., Hydrologic Unit 03090204, at the northwest corner of 50th Avenue SE and Everglades Boulevard, 0.5 mi south of U.S. Interstate 75 and 15.75 mi east of Naples.

AQUIFER.--Lower Tamiami aquifer of the Pliocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 150 ft, cased to 90 ft, open hole 90 to 150 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 14.48 ft above National Geodetic Vertical Datum of 1929.

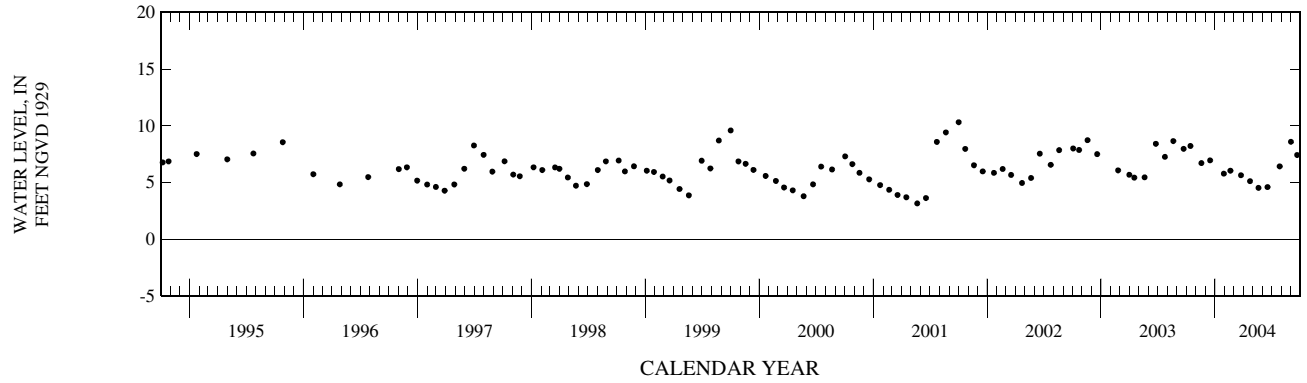
LAND-SURFACE DATUM.--Land surface is approximately 11.2 ft above NGVD.

PERIOD OF RECORD.--November 1984 to September 1994 (monthly), October 1994 to September 1996 (quarterly), October 1996 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.15 ft NGVD, Sept. 25, 1985; lowest, 3.06 ft NGVD, May 25, 1990.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
14...	1106	8.23	22...	1422	5.13
NOV			MAY		
18...	0935	6.72	19...	0850	4.54
DEC			JUN		
16...	0845	6.96	17...	1139	4.61
JAN			JUL		
29...	1306	5.79	26...	1327	6.43
FEB			AUG		
19...	1029	6.05	31...	1255	8.60
MAR			SEP		
24...	1108	5.65	20...	1332	7.43



COLLIER COUNTY—Continued

WELL NUMBER.--260843081324202. Local Number C 972.

LOCATION.--Lat 26°08'43", long 81°32'38", in SW $^1/_4$ NE $^1/_4$ sec.6, T.50 S., R.28 E., Hydrologic Unit 03090204, at the northwest corner of 50th Avenue SE and Everglades Boulevard, 0.5 mi south of U.S. Interstate 75 and 15.75 mi east of Naples.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 40 ft, cased to 25 ft, open hole 25 to 40 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 13.59 ft above National Geodetic Vertical Datum of 1929. Prior to March 28, 1994, top of casing was 15.58 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 11.2 ft above NGVD.

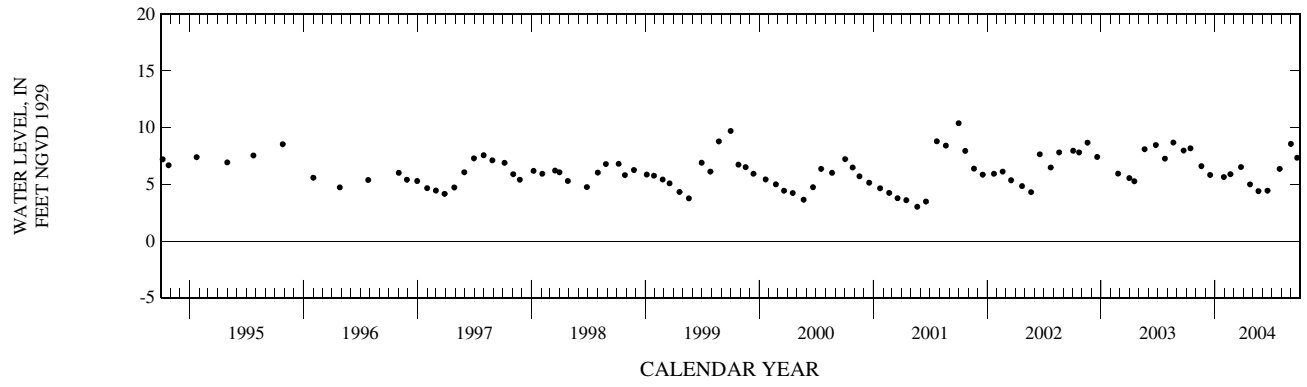
REMARKS.--Station damaged March 28, 1994, reconstructed June 8, 1994. See DATUM.

PERIOD OF RECORD.--October 1984 to September 1994 (monthly), October 1994 to September 1996 (quarterly), October 1996 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.90 ft NGVD, Aug. 29, 1985; lowest, 2.99 ft NGVD, May 25, 1990.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
14...	1104	8.17	22...	1420	4.99
NOV			MAY		
18...	0940	6.60	19...	0849	4.40
DEC			JUN		
16...	0858	5.82	17...	1141	4.44
JAN			JUL		
29...	1302	5.64	26...	1325	6.36
FEB			AUG		
19...	1027	5.89	31...	1254	8.56
MAR			SEP		
24...	1111	6.52	20...	1334	7.34



COLLIER COUNTY—Continued

WELL NUMBER.--260902081480401. Local Number C 130.

LOCATION.--Lat 26°09'01", long 81°48'23", in NE 1/4 NW 1/4 NE 1/4 sec.4, T.50 S., R.25 E., Hydrologic Unit 03090204, on the north side of 4th Avenue, 300 ft east of Gulf Shore Boulevard N, in Naples.

AQUIFER.--Lower Tamiami aquifer of the Pliocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 71 ft, cased to 69 ft, open hole 69 to 71 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of flange, 7.82 ft above National Geodetic Vertical Datum of 1929. From October 1986 to October 2000, the measuring point was incorrectly considered to be top of shelf, 7.96 ft above NGVD. See REMARKS. From 1978 to September 1986, the measuring point was top of casing 7.89 ft above NGVD. From 1955 to 1958, top of casing was 7.94 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 5.9 ft above NGVD.

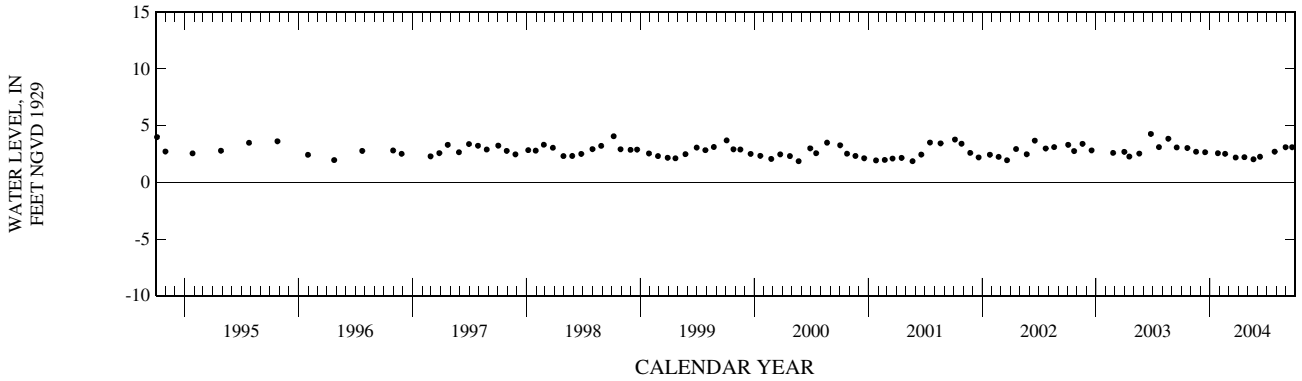
REMARKS.--The figures of water levels as elevation, in ft NGVD, are in error for water years 1986 to 2000. A correction of -0.14 ft is required to correct water-level data. Records of water levels prior to October 1983 are in the files of the U.S. Geological Survey. See DATUM.

PERIOD OF RECORD.--July 1952 to June 1958 (daily), June 1958 to September 1982 (semiannual), September 1982 to September 1994 (monthly), October 1994 to September 1996 (quarterly), October 1996 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level recorded, 5.44 ft NGVD, Sept. 5, 1957; lowest water level measured, 0.03 ft NGVD, May 7, 1974.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
20...	1108	3.02	20...	1116	2.21
NOV			MAY		
17...	1101	2.69	19...	1005	2.03
DEC			JUN		
16...	0903	2.65	09...	0916	2.25
JAN			JUL		
26...	1159	2.56	26...	1232	2.70
FEB			AUG		
18...	0929	2.51	30...	1213	3.09
MAR			SEP		
23...	0933	2.18	20...	0936	3.09



COLLIER COUNTY—Continued

WELL NUMBER.--260915081385901. Local Number C 976.

LOCATION.--Lat 26°09'16", long 81°38'47", in SW $^1/_4$ SW $^1/_4$ sec.31, T.49 S., R.27 E., Hydrologic Unit 03090204, 32 ft south of U.S. Interstate 75, 1.20 mi east of Naples.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 40 ft, cased to 10 ft, open hole 10 to 40 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 15.25 ft above National Geodetic Vertical Datum of 1929.

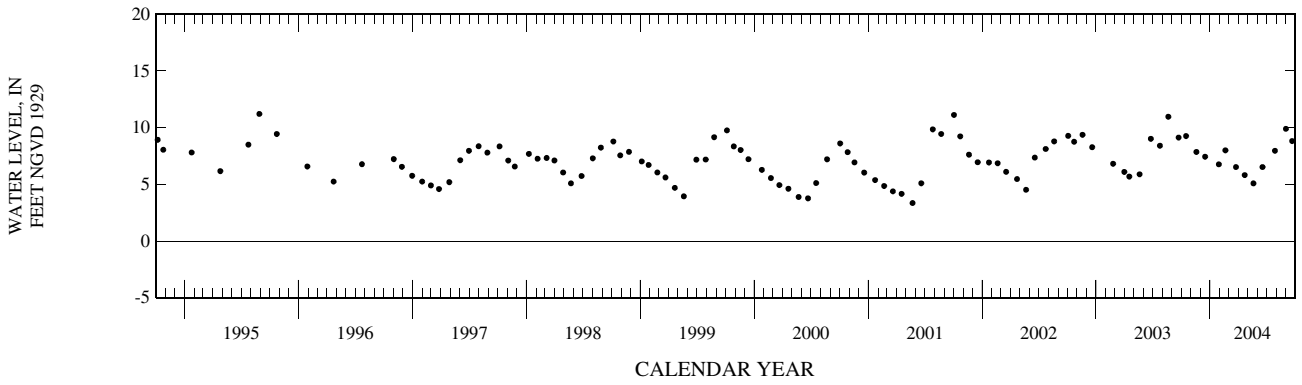
LAND-SURFACE DATUM.--Land surface is approximately 11.7 ft above NGVD.

PERIOD OF RECORD.--October 1984 to September 1994 (monthly), October 1994 to September 1996 (quarterly), October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.20 ft NGVD, Aug. 28, 1995; lowest, 2.24 ft NGVD, May 23, 1994.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
16...	1028	9.25	21...	1401	5.81
NOV			MAY		
18...	1229	7.85	19...	1209	5.08
DEC			JUN		
16...	1355	7.43	17...	1505	6.52
JAN			JUL		
29...	1100	6.76	27...	1308	7.95
FEB			AUG		
19...	1416	7.99	31...	0810	9.89
MAR			SEP		
24...	1429	6.52	20...	1232	8.81



COLLIER COUNTY—Continued

WELL NUMBER.--260915081385902. Local Number C 977.

LOCATION.--Lat 26°09'15", long 81°38'48", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.31, T.49 S., R.27 E., Hydrologic Unit 03090204, 32 ft south of U.S. Interstate 75 and 9 mi east of Naples.

AQUIFER.--Lower Tamiami aquifer of the Pliocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 140 ft, cased to 75 ft, open hole 75 to 140 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 15.94 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 11.3 ft above NGVD.

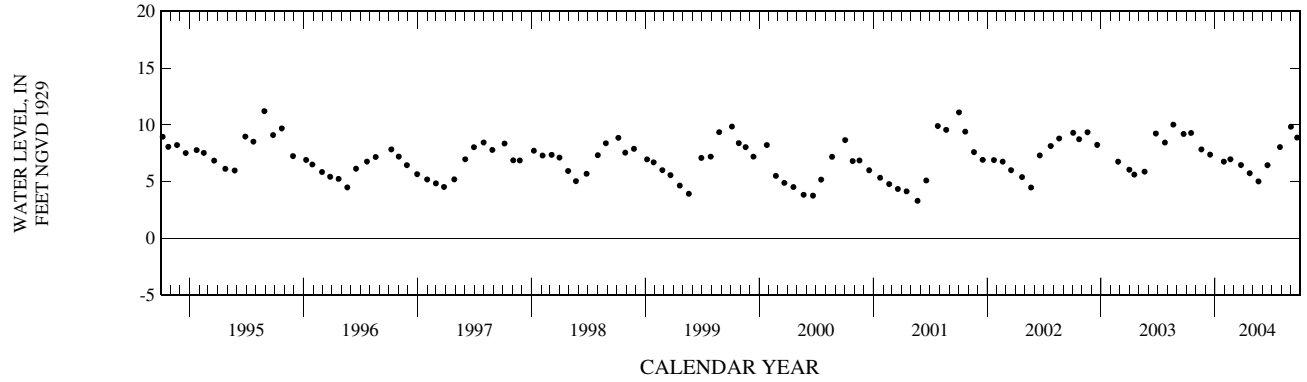
REMARKS.--Well is also used for salinity monitoring until September 2004. This well is obstructed at a depth of 128 ft making it impossible to collect a sample from the bottom of the well. Samples are collected from a depth of 128 ft. Sampling procedures for this well were reassessed in the 2001 water year. Data collected prior to 2001 are available in the files of the U.S. Geological Survey.

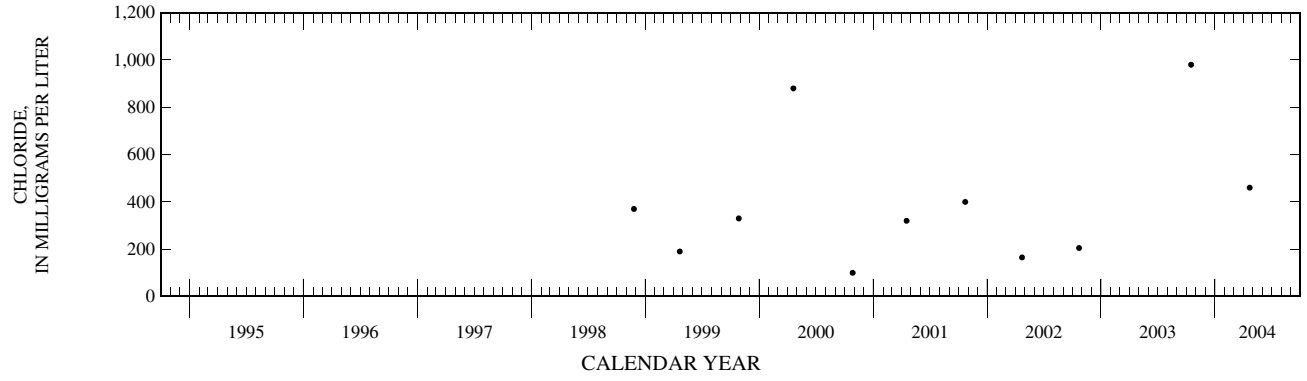
PERIOD OF RECORD.--October 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.21 ft NGVD, Aug. 28, 1995; lowest, 3.31 ft NGVD, May 22, 2001.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
16...	1032	9.29	4,060	980
NOV				
18...	1232	7.84	--	--
DEC				
16...	1359	7.38	--	--
JAN				
29...	1105	6.76	--	--
FEB				
19...	1439	6.97	--	--
MAR				
24...	1431	6.46	--	--
APR				
21...	1402	5.74	2,200	460
MAY				
19...	1210	5.02	--	--
JUN				
17...	1507	6.45	--	--
JUL				
27...	1311	8.05	--	--
AUG				
31...	0811	9.84	--	--
SEP				
20...	1229	8.88	--	--





COLLIER COUNTY—Continued

WELL NUMBER.--260919081460501. Local Number C 1052.

LOCATION.--Lat 26°09'22", long 81°46'05", in NE $^1/_4$ SE $^1/_4$ SE $^1/_4$ sec.35, T.49 S., R.25 E., Hydrologic Unit 03090204, 250 ft west and 1,100 ft north of Junction of County Road 31 and State Road 856, 1.5 mi east of Naples Post Office.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 25 ft, cased to 10 ft, screened 10 to 25 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 8.12 ft above National Geodetic Vertical Datum of 1929. From January 1995 to October 2000, top of casing was incorrectly considered to be 8.05 ft above NGVD. Prior to November 1994, top of casing was 10.76 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 8.5 ft above NGVD.

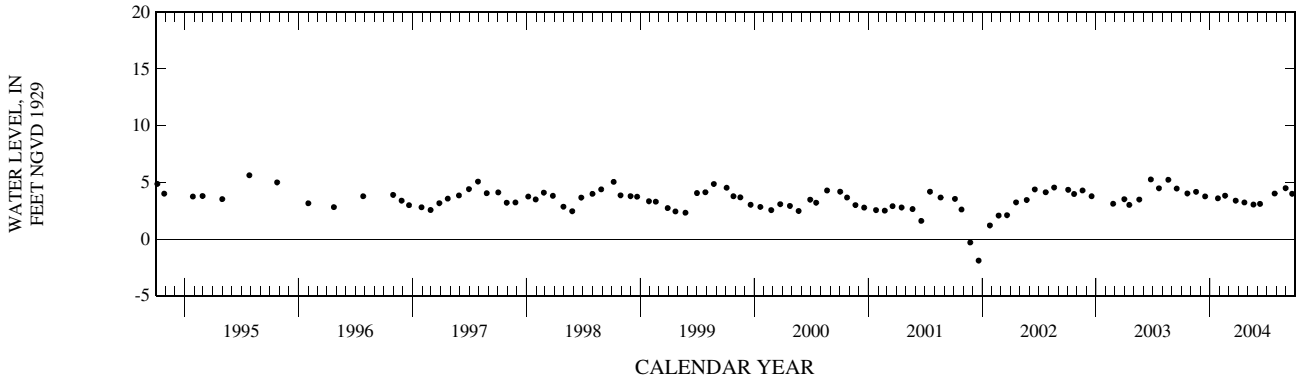
REMARKS.--The figures of water level as elevation, in feet NGVD, from January 1995 to October 2000 are in error. A +0.07 ft correction has been applied to correct water-level data from January 1995 to October 2000. Corrected records are in the files of the U.S. Geological Survey. The well was damaged November 1994, repaired February 1995. See DATUM.

PERIOD OF RECORD.--April 1986 to September 1994 (monthly), October 1994 to September 1996 (quarterly), October 1996 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.62 ft NGVD, July 27, 1995 (current datum); lowest, 1.90 ft below NGVD, December 20, 2002.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
20...	1049	4.02	20...	1050	3.22
NOV			MAY		
17...	1034	4.16	19...	0944	3.04
DEC			JUN		
16...	0844	3.76	09...	0856	3.10
JAN			JUL		
26...	1045	3.59	26...	1209	4.01
FEB			AUG		
18...	0908	3.82	30...	1138	4.48
MAR			SEP		
23...	0842	3.38	20...	0912	3.99



COLLIER COUNTY—Continued

WELL NUMBER.--260925081475101. Local Number C 1062.

LOCATION.--Lat 26°09'25", long 81°47'52", in SW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.34, T.49 S., R.25 E., Hydrologic Unit 03090204, 15 ft south of Golf Drive and 100 ft west of U.S. Highway 41, 2.8 mi northwest of Collier County Government Center.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 24 ft, cased to 10 ft, screened 10 to 24 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 13.97 ft above National Geodetic Vertical Datum of 1929.

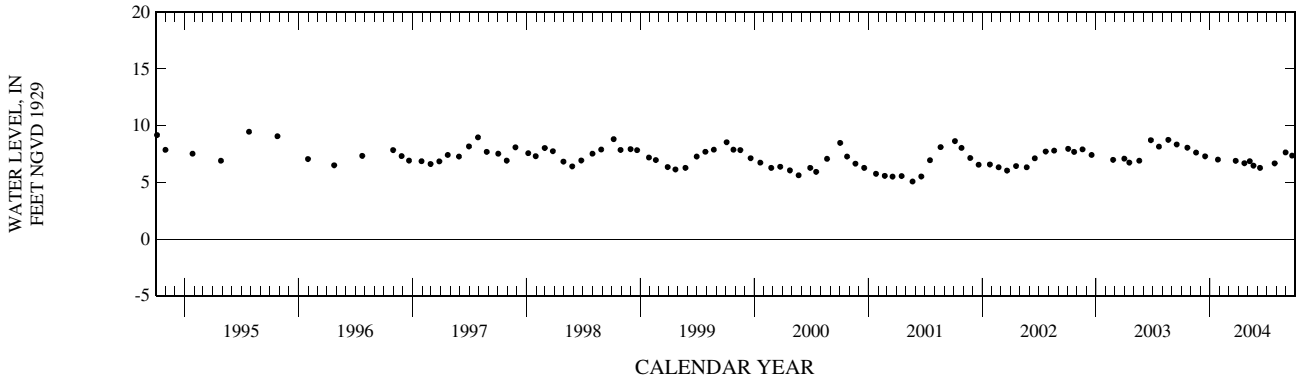
LAND-SURFACE DATUM.--Land surface is approximately 10.8 ft NGVD.

PERIOD OF RECORD.--April 1986 to September 1994 (monthly), October 1994 to September 1996 (quarterly), October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.45 ft NGVD, July 26, 1995; lowest, 4.31 ft NGVD, May 26, 1987.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			MAY		
20...	1118	8.05	07...	0905	6.86
NOV			19...	1017	6.47
17...	1117	7.62	JUN		
DEC			09...	0928	6.27
16...	0916	7.29	JUL		
JAN			26...	1251	6.67
26...	1213	7.00	AUG		
MAR			30...	1225	7.63
23...	0944	6.89	SEP		
APR			20...	0946	7.35
20...	1132	6.68			



COLLIER COUNTY—Continued

WELL NUMBER.--260941081324201. Local Number C 974.

LOCATION.--Lat 26°09'40", long 81°32'40", in SW $^1/_4$ NE $^1/_4$ sec.31, T.49 S., R.28 E., Hydrologic Unit 03090204, 30 ft south of 38th Avenue SE, 100 ft west of Everglades Boulevard, 0.5 mi north of U.S. Interstate 75 and 15.75 mi east of Naples.

AQUIFER.--Mid-Hawthorn aquifer of the Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 460 ft, cased to 400 ft, open hole 400 to 460 ft.

INSTRUMENTATION.--Monthly measurement with pressure gage.

DATUM.--Measuring point: Top of casing, 10.10 ft above National Geodetic Vertical Datum of 1929.

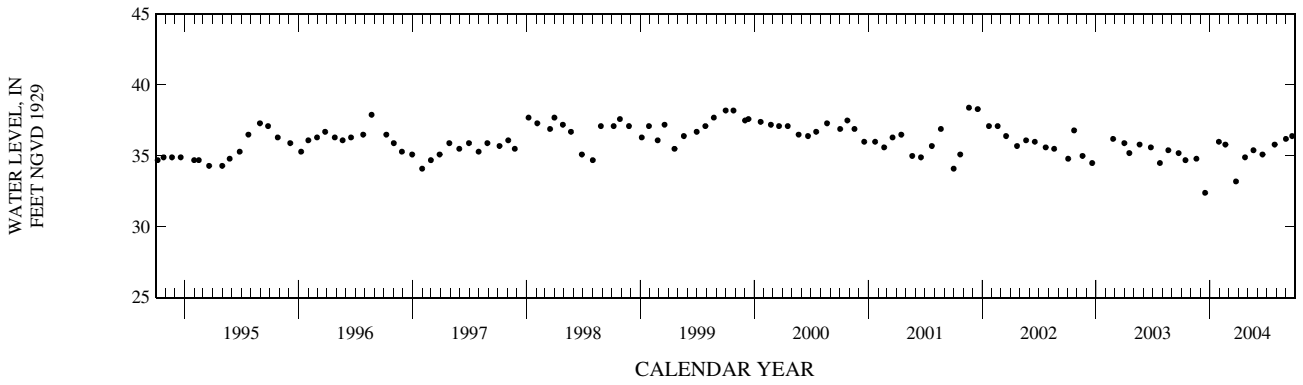
LAND-SURFACE DATUM.--Land surface is approximately 10.0 ft above NGVD.

PERIOD OF RECORD.--October 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 38.7 ft NGVD, Jan. 28, 1991; lowest, 29.1 ft NGVD, June 17, 1991.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
14...	1056	34.7	22...	1413	34.9
NOV			MAY		
18...	0920	34.8	19...	0844	35.4
DEC			JUN		
16...	0838	32.4	17...	1133	35.1
JAN			JUL		
29...	1246	36.0	26...	1321	35.8
FEB			AUG		
19...	1017	35.8	31...	1305	36.2
MAR			SEP		
24...	1045	33.2	20...	1328	36.4



WELL NUMBER.--261000080520001. Local Number C 54.

LOCATION.--Lat 26°10'21", long 80°53'00", in SW $^1/_4$ SE $^1/_4$ sec.36, T.49 S., R.34 E., Hydrologic Unit 03090204, on the south side of U.S. Interstate 75, 0.3 mi west of Broward/Collier Line, 2.4 mi west of pump station 140 and 6.0 mi south of Big Cypress Indian Reservation.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 8.5 ft, cased to 7.2 ft, gravel-packed 7.2 to 8.5 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of flange, 15.70 ft above National Geodetic Vertical Datum of 1929. Prior to June 2002, measuring point was 15.74 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 12.8 ft above NGVD.

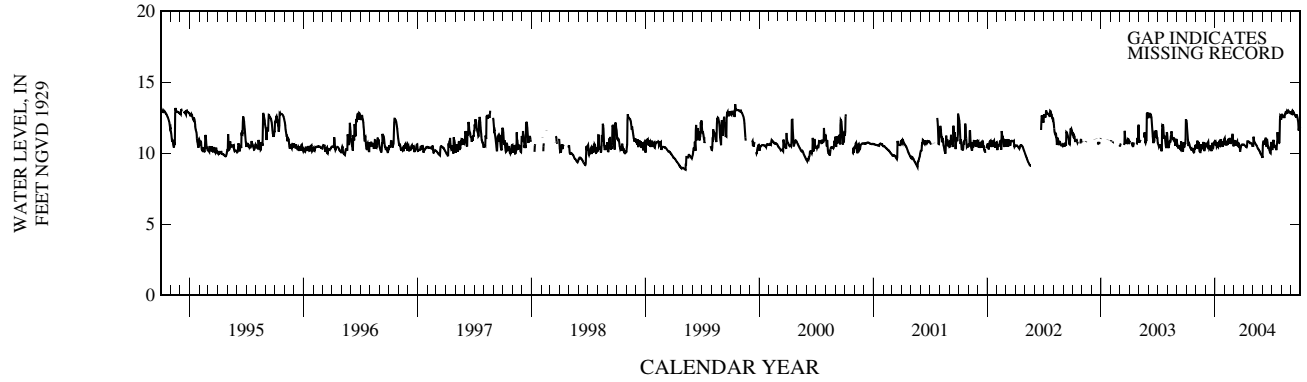
REMARKS.--Station was damaged on May 21, 2002, and was reconstructed on June 21, 2002.

PERIOD OF RECORD.--February 1951 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 13.81 ft NGVD, Oct. 9, 1953; lowest, 7.81 ft NGVD, June 13, 1962.

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	11.23	10.89	10.73	10.69	10.61	10.92	10.55	10.81	10.83	10.85	12.65	12.99
10	10.68	10.57	10.80	10.49	10.59	10.60	10.45	10.65	10.96	10.37	12.48	12.79
15	10.33	10.08	10.54	10.84	10.91	10.67	10.83	10.44	11.01	10.21	12.90	12.62
20	10.24	10.36	10.15	10.94	10.93	10.37	10.77	10.23	10.45	11.17	12.80	12.59
25	10.06	10.79	10.46	10.45	11.31	10.55	10.71	10.01	10.05	10.76	12.92	11.60
EOM	10.61	10.69	10.74	11.00	10.49	10.62	10.52	9.78	10.66	12.38	12.84	11.79
MAX	12.30	10.89	10.80	11.00	11.31	10.92	10.84	11.16	11.09	12.64	12.99	12.99



COLLIER COUNTY—Continued

WELL NUMBER.--261018081484101. Local Number C 526.

LOCATION.--Lat 26°10'18", long 81°48'42", in NW $^1/_4$ SW $^1/_4$ SE $^1/_4$ sec.28, T.49 S., R.25 E., Hydrologic Unit 03090204, at the southeast corner of Gulf Shore Boulevard and Mooring Line Drive, 1.3 mi northwest of the Naples Post Office.

AQUIFER.--Lower Tamiami aquifer of the Pliocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 2 in., depth 68 ft, cased to 63 ft, open hole 63 to 68 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 5.71 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 6.7 ft above NGVD. (Corrected).

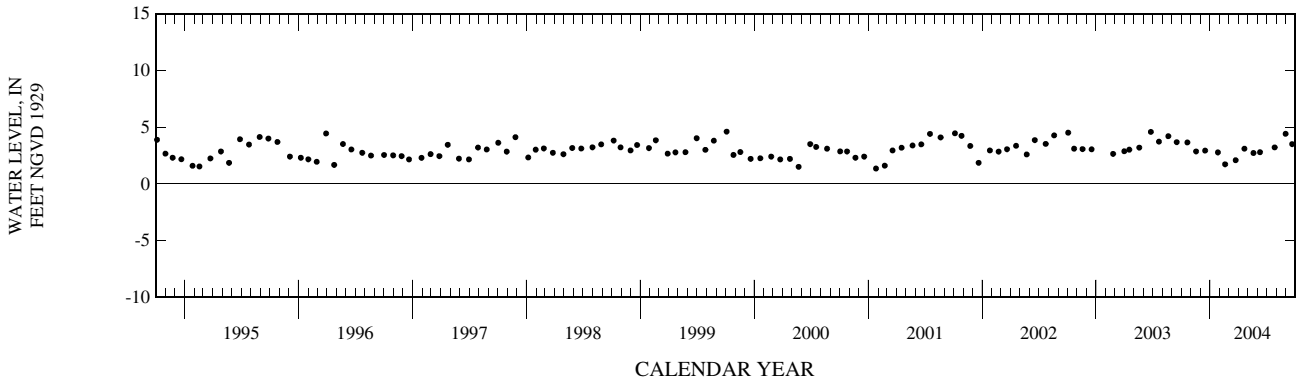
REMARKS.--Well is also used for salinity monitoring. Records of water levels prior to October 1983 are available in files of the U.S. Geological Survey.

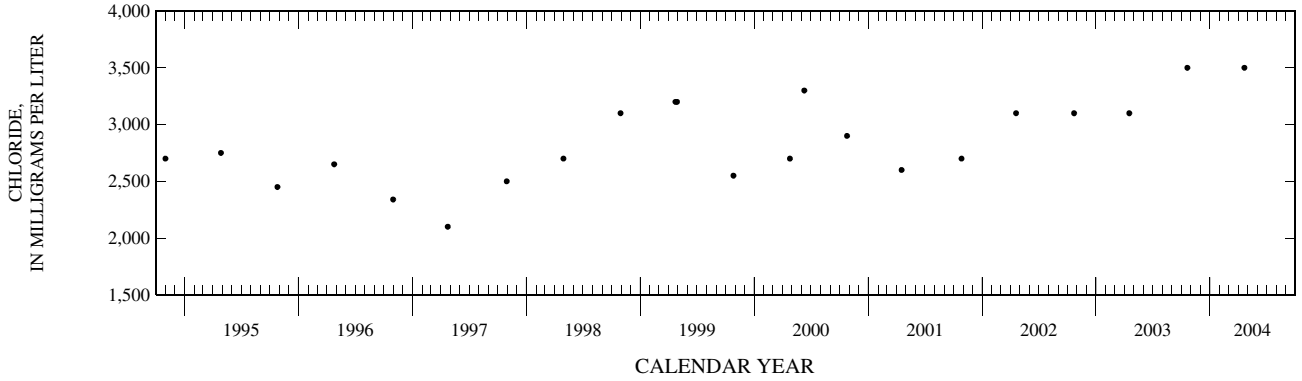
PERIOD OF RECORD.--September 1973 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.61 ft NGVD, Oct. 4, 1999; lowest, 0.47 ft below NGVD, May 7, 1974.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
20...	1146	3.66	11,400	3,500
NOV				
17...	1126	2.86	--	--
DEC				
16...	0923	2.94	--	--
JAN				
26...	1224	2.78	--	--
FEB				
18...	0949	1.73	--	--
MAR				
23...	0952	2.09	--	--
APR				
20...	1241	3.11	11,800	3,500
MAY				
19...	1026	2.73	--	--
JUN				
09...	0935	2.80	--	--
JUL				
26...	1257	3.22	--	--
AUG				
30...	1248	4.42	--	--
SEP				
20...	0954	3.51	--	--





COLLIER COUNTY—Continued

WELL NUMBER.--261023081463702. Local Number C 1100.

LOCATION.--Lat 26°10'23", long 81°46'37", in NW ¼ NE ¼ SW ¼ sec.26, T.49 S., R.25 E., Hydrologic Unit 03090204, 7.5 ft south of Golden Gate Parkway, (County Road 886), and 0.75 mi west of County Road 31, 3.2 mi north of Collier County Government Center.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 16 ft, screened 11 to 16 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of 4 in. PVC casing, 6.33 ft above National Geodetic Vertical Datum of 1929.

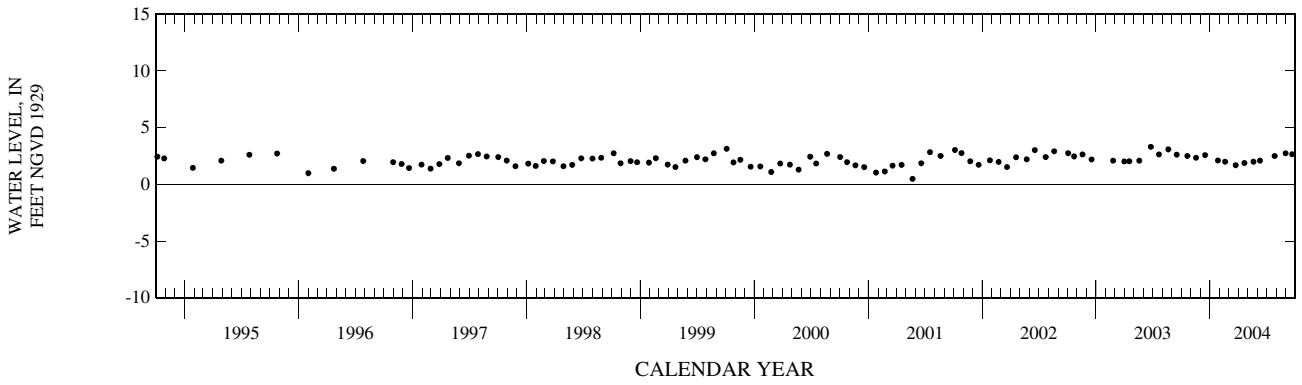
LAND-SURFACE DATUM.--Land surface is approximately 6.8 ft above NGVD.

PERIOD OF RECORD.--September 1993 to September 1994 (monthly), October 1994 to September 1996 (quarterly), October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.30 ft NGVD, June 25, 2003; lowest, 0.48 ft NGVD, May 22, 2001.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
20...	1001	2.50	20...	0938	1.87
NOV			MAY		
17...	0955	2.34	19...	0857	1.99
DEC			JUN		
16...	0739	2.57	09...	0803	2.08
JAN			JUL		
26...	1014	2.10	26...	1126	2.49
FEB			AUG		
18...	0804	1.99	30...	1235	2.73
MAR			SEP		
23...	0745	1.68	20...	0827	2.65



COLLIER COUNTY—Continued

WELL NUMBER.--261124081470101. Local Number C 392.

LOCATION.--Lat 26°11'24", long 81°47'29", in SW ¼ SW ¼ NE ¼ sec.22, T.49 S., R.25 E., Hydrologic Unit 03090204, 30 ft east of County Road 851, 1.4 mi south of County Road 896, and 4.7 mi northeast of Collier County Government Center.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 8 in., depth 30 ft, casing 28 ft, open hole 28 to 30 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of recorder shelf, 10.10 ft above National Geodetic Vertical Datum of 1929. Prior to October 2000, measuring point was 9.98 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 9.7 ft above NGVD.

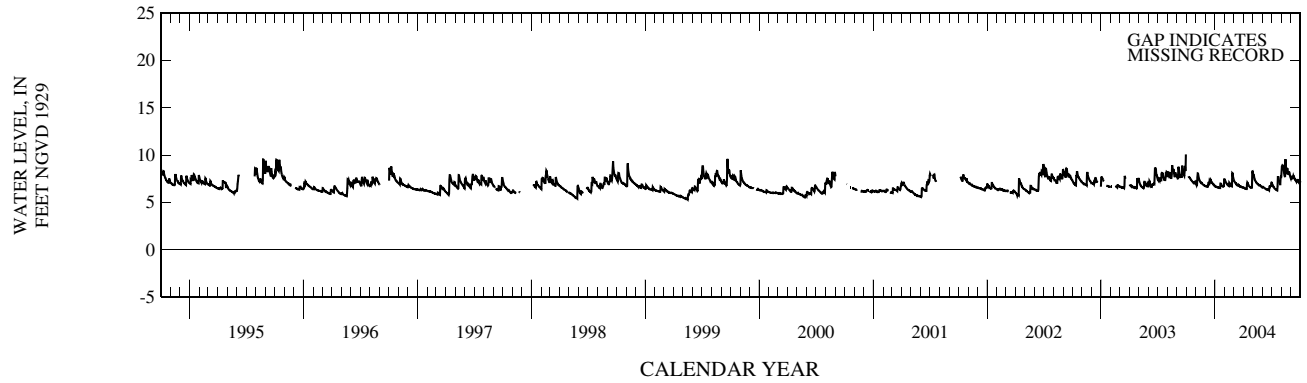
REMARKS.--Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey. Station was reconstructed in October 2000. See DATUM.

PERIOD OF RECORD.--January 1965 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 10.09 ft NGVD, Sept. 29, 2003; lowest, 3.00 ft NGVD, May 24, 1974.

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	---	7.68	6.71	6.68	7.12	7.11	6.48	7.67	6.60	6.70	8.61	7.74
10	7.66	7.54	6.98	6.59	6.86	6.92	6.43	7.24	6.45	6.48	7.91	7.73
15	7.44	7.15	7.20	6.55	7.11	6.81	7.00	6.99	6.38	6.35	8.73	7.36
20	7.21	7.05	7.19	6.95	6.83	6.73	6.70	6.83	6.34	7.70	8.56	7.27
25	7.03	6.84	6.99	6.71	8.12	6.64	6.60	6.78	6.65	7.10	8.27	7.16
EOM	7.03	6.73	6.78	7.45	7.48	6.58	8.29	6.64	7.10	7.73	7.51	7.28
MAX	---	8.07	7.45	7.45	8.12	7.35	8.29	8.12	7.10	7.75	9.57	7.84



COLLIER COUNTY—Continued

WELL NUMBER.--261124081470301. Local Number C 391.

LOCATION.--Lat 26°11'24", long 81°47'32", in SE ¼ SE ¼ NW ¼ sec.22, T.49 S., R.25 E., Hydrologic Unit 03090204, 10 ft east of North 14th Street, 1.4 mi south of County Road 896, and 4.7 mi northeast of Collier County Government Center.

AQUIFER.--Lower Tamiami aquifer of the Pliocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 75 ft, cased to 70 ft.

INSTRUMENTATION.--Electronic data logger with pressure transducer.

DATUM.--Measuring point: Top of recorder shelf, 12.23 ft above National Geodetic Vertical Datum of 1929. Prior to March 23, 2004, top of base was 11.16 ft above NGVD. Prior to April 11, 1997, top of base was 11.13 ft above NGVD. (Corrected). See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 9.7 ft above NGVD.

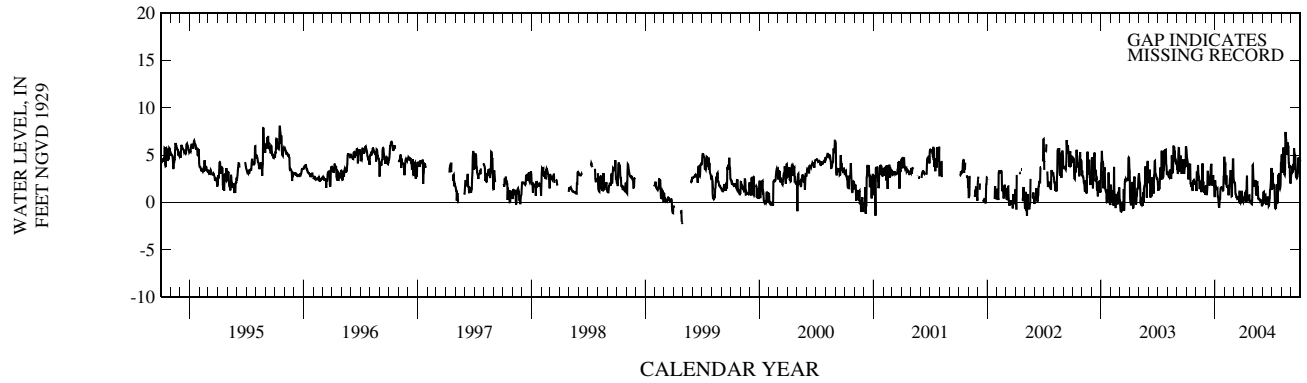
REMARKS.--Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey. Station reconstructed March 2004 and April 1997.

PERIOD OF RECORD.--January 1965 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.70 ft NGVD, May 24, 1991; lowest, 6.21 ft below NGVD, May 5, 1975.

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	4.29	2.36	0.86	1.51	1.92	1.83	0.39	1.76	1.12	2.06	3.14	3.24
10	3.22	2.70	2.50	0.69	1.65	0.62	-0.02	2.36	0.82	0.98	3.01	5.74
15	2.04	2.14	2.30	-0.20	1.79	0.48	0.37	2.28	0.57	-0.04	7.00	3.40
20	1.37	2.23	4.01	1.60	3.42	1.16	0.75	0.27	0.19	1.94	6.37	2.63
25	2.13	1.44	2.58	1.32	2.87	1.11	0.05	0.24	1.33	3.13	4.11	4.59
EOM	2.19	0.83	0.57	4.75	2.55	0.08	3.93	-0.27	3.65	4.16	2.73	4.52
MAX	5.54	4.05	4.01	4.75	4.56	2.30	3.93	3.99	3.65	4.16	7.43	5.74



COLLIER COUNTY—Continued

WELL NUMBER.--261127081461001. Local Number C 1054.

LOCATION.--Lat 26°11'41", long 81°46'10", in NE ¼ SE ¼ NE ¼ sec.23, T.49 S., R.25 E., Hydrologic Unit 03090204, 500 ft west of County Road 31 and 10 ft south of Bailey Lane and 1.4 mi south of Pine Ridge Road (County Road 896), 4.4 mi north of Collier County Government Center.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 25 ft, cased to 10 ft, screened 10 to 25 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 12.03 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 9.3 ft above NGVD.

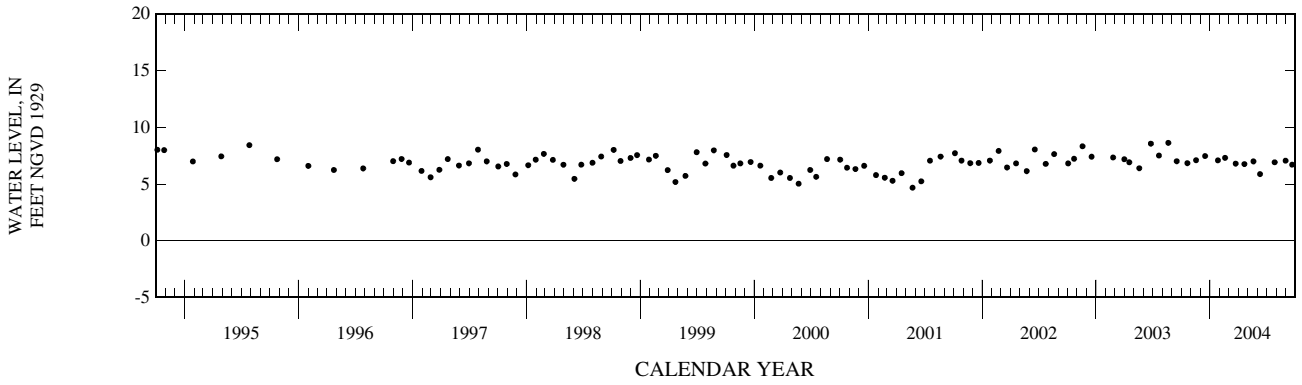
REMARKS.--Well discontinued September 2004.

PERIOD OF RECORD.--April 1986 to September 1994 (monthly), October 1994 to September 1996 (quarterly), October 1996 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.15 ft NGVD, June 28, 1989; lowest, 4.67 ft NGVD, May 22, 2001.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
20...	0953	6.83	20...	0925	6.75
NOV			MAY		
17...	0947	7.09	19...	0849	6.99
DEC			JUN		
16...	0732	7.46	09...	0754	5.87
JAN			JUL		
26...	0955	7.08	26...	1118	6.91
FEB			AUG		
18...	0756	7.30	30...	1046	7.05
MAR			SEP		
23...	0734	6.79	20...	0819	6.70



COLLIER COUNTY—Continued

WELL NUMBER.--261156081475801. Local Number C 516.

LOCATION.--Lat 26°11'56", long 81°47'58", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.15, T.49 S., R.25 E., Hydrologic Unit 03090204, 18 ft south of Morningside Drive, 300 ft east of U.S. Highway 41 in Naples.

AQUIFER.--Lower Tamiami aquifer of the Pliocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 2 in., depth 63 ft, cased to 46 ft, open hole 46 to 63 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 10.41 ft above National Geodetic Vertical Datum of 1929. From October 1992 to September 2000, top of casing was incorrectly considered to be 10.38 ft above NGVD. From October 1988 to September 1992, top of casing was considered to be 8.78 ft above NGVD. Prior to September 1988, top of casing was considered to be 11.93 ft above NGVD. The figures of water level as elevation, in feet NGVD, prior to October 2000 are considered to be in error. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 10.7 ft above NGVD.

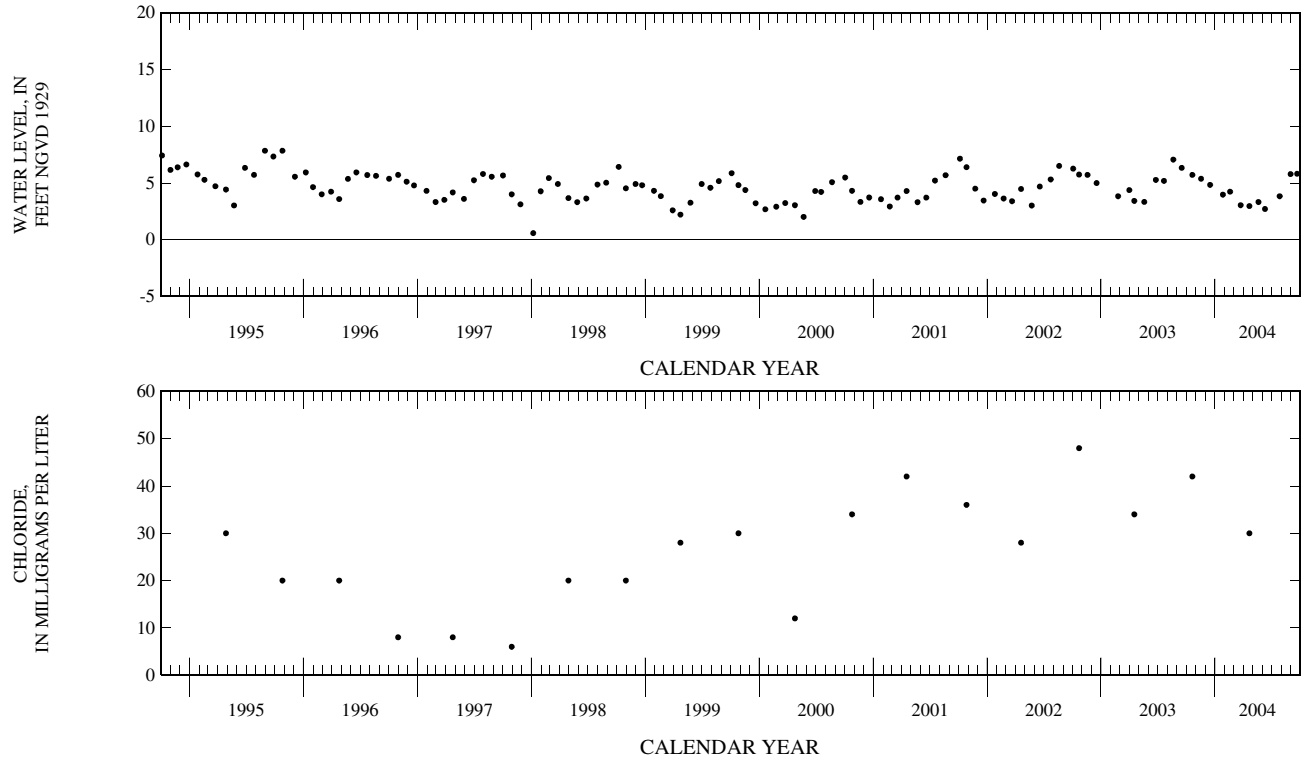
REMARKS.--Well is also used for salinity monitoring. The figures of water level as elevation, in feet NGVD, published prior to October 2000 are considered to be in error, based on a re-survey of the well in December 2001. A correction of +0.03 ft has been applied to water-level data from October 1979 to September 2000. Corrected records are in the files of the U.S. Geological Survey. See DATUM. Records of water levels prior to October 1984 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--October 1973 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.84 ft NGVD, Aug. 30, Oct. 25, 1995; lowest, 3.88 ft below NGVD, May 7, 1974.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
20...	1234	5.71	624	42.0
NOV				
17...	1155	5.37	--	--
DEC				
16...	0938	4.83	--	--
JAN				
26...	1249	3.97	--	--
FEB				
18...	1005	4.23	--	--
MAR				
23...	1013	3.04	--	--
APR				
20...	1353	2.96	563	30.0
MAY				
19...	1038	3.32	--	--
JUN				
09...	0952	2.71	--	--
JUL				
26...	1312	3.83	--	--
AUG				
30...	1321	5.78	--	--
SEP				
20...	1012	5.81	--	--



COLLIER COUNTY—Continued

WELL NUMBER.--261200081204901. Local Number C 986.

LOCATION.--Lat 26°12'03", long 81°20'48", in SE ¼ SE ¼ sec.18, T.49 S., R.30 E., Hydrologic Unit 03090204, 30 ft south of Fakahatchee Conservancy Club Road, 71 ft west of State Road 29, 3.4 mi north of U.S. Interstate 75 and 15.5 mi south of Immokalee.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 40 ft, cased to 28 ft, open hole 28 to 40 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 20.39 ft above National Geodetic Vertical Datum of 1929.

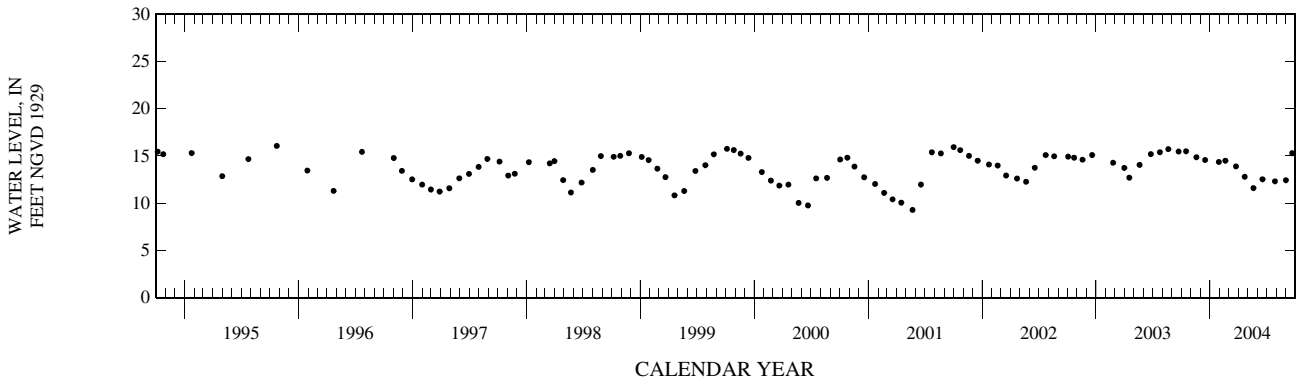
LAND-SURFACE DATUM.--Land surface is approximately 16.4 ft above NGVD.

PERIOD OF RECORD.--October 1984 to September 1994 (monthly), October 1994 to September 1996 (quarterly), October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.06 ft NGVD, Oct. 23, 1995; lowest, 8.16 ft NGVD, June 26, 1989.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
16...	0950	15.49	21...	1325	12.79
NOV			MAY		
18...	1159	14.86	19...	1136	11.60
DEC			JUN		
16...	1315	14.57	17...	1432	12.53
JAN			JUL		
29...	1029	14.36	27...	1240	12.31
FEB			AUG		
19...	1404	14.49	31...	0855	12.43
MAR			SEP		
24...	1358	13.89	20...	1159	15.29



COLLIER COUNTY—Continued

WELL NUMBER.--261200081483001. Local Number C 528.

LOCATION.--Lat 26°11'59", long 81°48'30", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.16, T.49 S., R.25 E., Hydrologic Unit 03090204, 15 ft east and 15 ft north of the intersection of Crayton Road and Turtle Hatch Road and 2.25 mi northwest of the Naples Post Office.

AQUIFER.--Lower Tamiami aquifer of the Pliocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 2 in., depth 80 ft, cased to 63 ft, open hole 63 to 80 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 4.39 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 5.4 ft above NGVD. (Corrected).

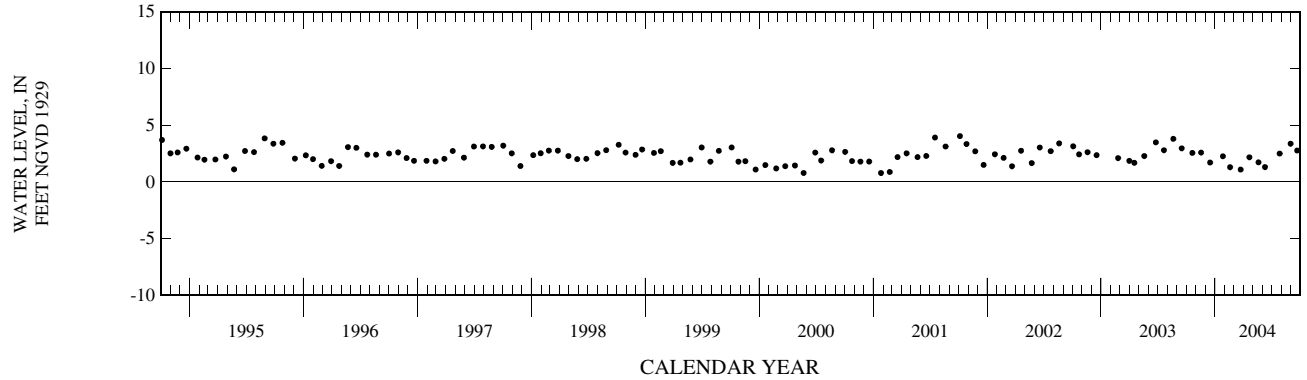
REMARKS.--Well is also used for salinity monitoring. The well was originally open to the aquifer from 63 to 80 ft. The open interval collapsed or became obstructed at a depth of 66 ft. During the 2001 water year chloride samples were collected using a pump. The exact depth from which the chloride-containing water emanated could not be further delineated.

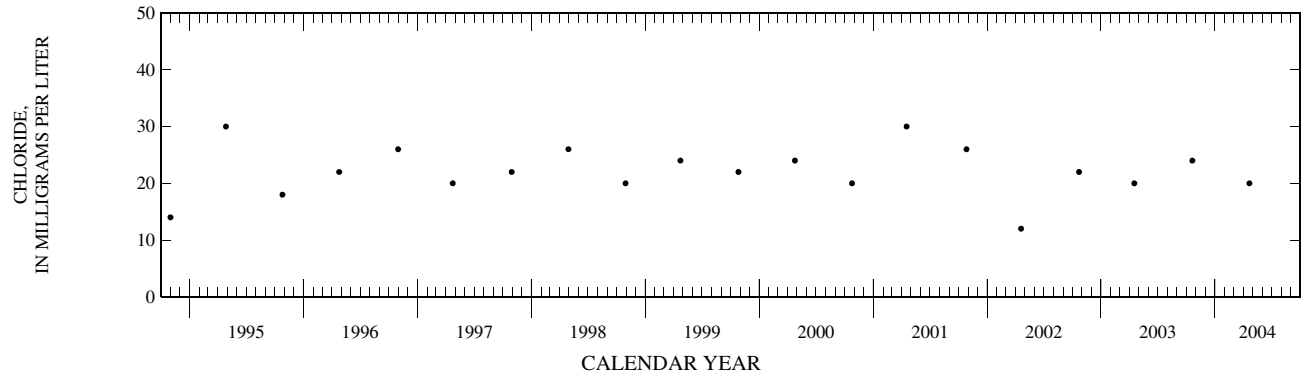
PERIOD OF RECORD.--September 1973 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, well flowing above 4.39 ft NGVD, July 29, 1985; lowest, 0.26 ft NGVD, June 12, 1989.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
20...	1205	2.56	421	24.0
NOV				
17...	1140	2.59	--	--
DEC				
16...	0931	1.71	--	--
JAN				
26...	1236	2.26	--	--
FEB				
18...	0958	1.30	--	--
MAR				
23...	1003	1.09	--	--
APR				
20...	1322	2.17	419	20.0
MAY				
19...	1033	1.73	--	--
JUN				
09...	0945	1.31	--	--
JUL				
26...	1305	2.50	--	--
AUG				
30...	1307	3.37	--	--
SEP				
20...	1003	2.77	--	--





COLLIER COUNTY—Continued

WELL NUMBER.--261211081441301. Local Number C 1055.

LOCATION.--Lat 26°09'12", long 81°41'09", in NE $^1/_4$ NE $^1/_4$ sec.18, T.49 S., R.26 E., Hydrologic Unit 03090204, 200 ft west of U.S. Interstate 75 and 50 ft south of Pine Ridge Road (County Road 896), 6 mi northeast of Collier County Government Center.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 25 ft, cased to 10 ft, screened 10 to 25 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 13.37 ft above National Geodetic Vertical Datum of 1929.

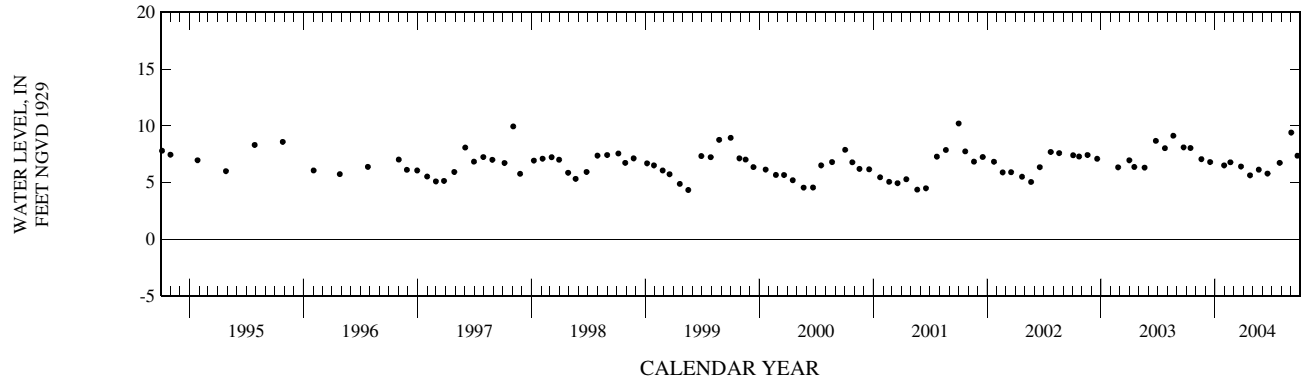
LAND-SURFACE DATUM.--Land surface is approximately 10.9 ft above NGVD.

PERIOD OF RECORD.--April 1986 to September 1994 (monthly), October 1994 to September 1996 (quarterly), October 1996 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.21 ft NGVD, Oct. 1, 2001; lowest, 4.35 ft NGVD, May 18, 1999.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
14...	0928	8.05	22...	1150	5.64
NOV			MAY		
18...	0840	7.07	20...	0906	6.14
DEC			JUN		
16...	0753	6.81	17...	1044	5.80
JAN			JUL		
30...	0856	6.52	26...	1015	6.74
FEB			SEP		
19...	0937	6.79	01...	0906	9.41
MAR			21...	1238	7.37
24...	0948	6.42			



COLLIER COUNTY—Continued

WELL NUMBER.--261243081480301. Local Number C 490.

LOCATION.--Lat 26°13'14", long 81°48'01", in NW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.10, T.49 S., R.25 E., Hydrologic Unit 03090204, 1.5 ft west of Trail Boulevard, 10 ft north of Center Street, 100 ft east of U.S. Highway 41 and northwest of the Naples Post Office.

AQUIFER.--Lower Tamiami aquifer of the Pliocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 2 in., depth 71 ft, cased to 70 ft, open hole 70 to 71 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 16.55 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 16.6 ft above NGVD.

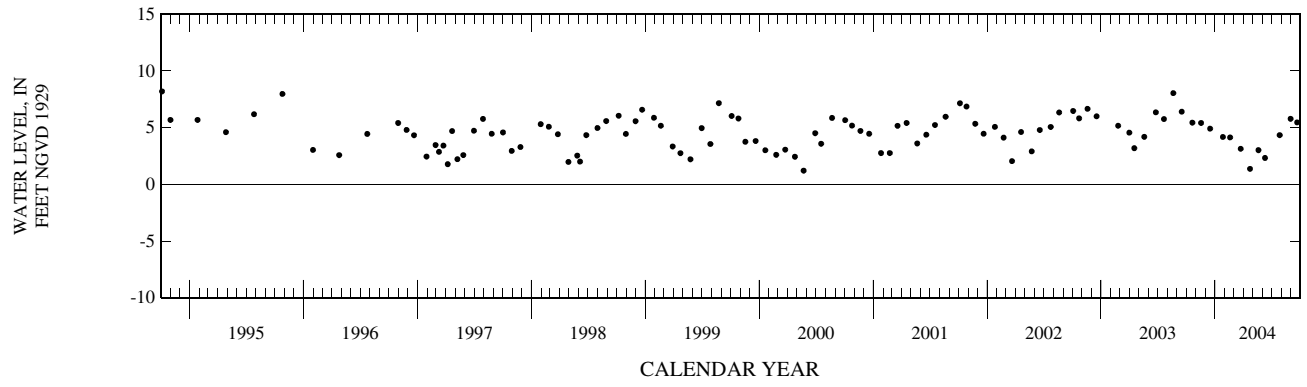
REMARKS.--Well was also used for salinity monitoring from October 1975 to April 1999. Chloride and conductivity profiles are available in the files of the U.S. Geological Survey. Records of water levels prior to October 1983 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--October 1975 to April 1982 (semiannual), October 1982 to September 1994 (monthly), October 1994 to September 1996 (quarterly), October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.18 ft NGVD, Oct. 4, 1994; lowest, 0.32 ft below NGVD, May 13, 1976.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
20...	1536	5.43	22...	0911	1.36
NOV			MAY		
17...	1356	5.40	19...	1240	3.01
DEC			JUN		
16...	1150	4.90	09...	1108	2.32
JAN			JUL		
26...	1505	4.17	26...	1518	4.33
FEB			AUG		
18...	1217	4.13	30...	1533	5.77
MAR			SEP		
23...	1201	3.13	20...	1036	5.45



COLLIER COUNTY—Continued

WELL NUMBER.--261302081473901. Local Number C 489.

LOCATION.--Lat 26°13'25", long 81°47'32", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.10, T.49 S., R.25 E., Hydrologic Unit 03090204, 15 ft west of Ridge Drive, 300 ft south of North Street in Naples.

AQUIFER.--Lower Tamiami aquifer of the Pliocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 83 ft, cased to 63 ft, open hole 63 to 83 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 18.66 ft above National Geodetic Vertical Datum of 1929. Prior to December 1986, measuring point was top of base, 18.70 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 15.2 ft above NGVD. (Corrected).

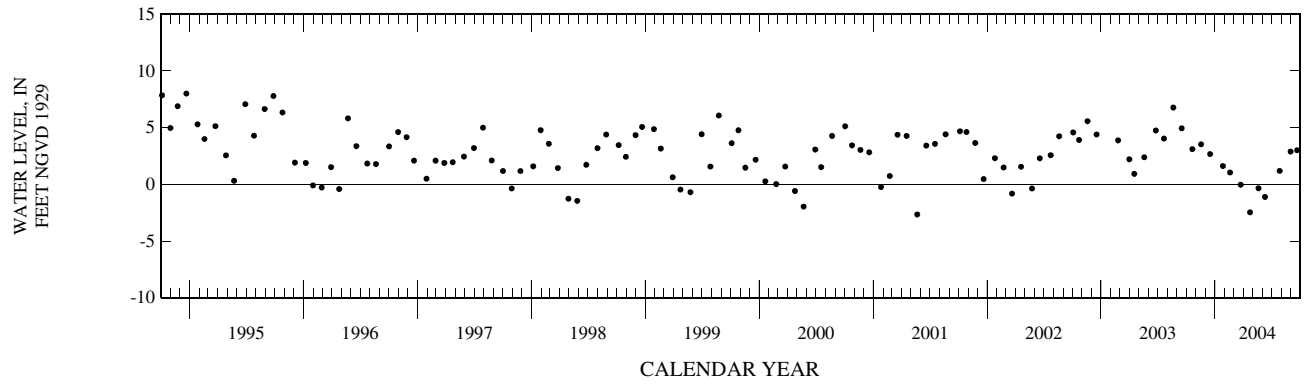
REMARKS.--Well is also used for salinity monitoring. Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey.

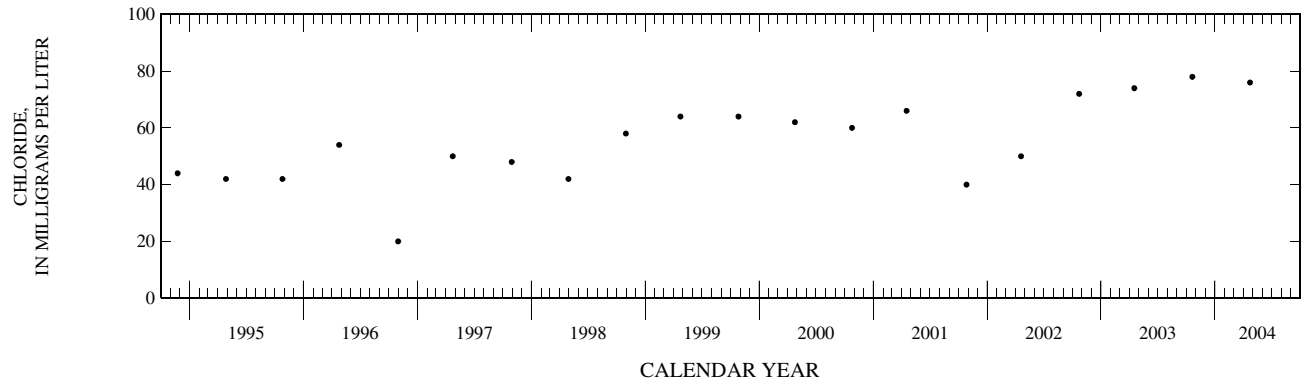
PERIOD OF RECORD.--May 1970 to November 1986 (daily), December 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 11.20 ft NGVD, Sept. 24, 1970; lowest, 4.47 ft below NGVD, Apr. 30, 1976.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
20...	1516	3.10	601	78.0
NOV				
17...	1351	3.52	--	--
DEC				
16...	1155	2.66	--	--
JAN				
26...	1449	1.61	--	--
FEB				
18...	1212	1.04	--	--
MAR				
23...	1157	-.04	--	--
APR				
22...	0850	-2.47	636	76.0
MAY				
19...	1235	-.35	--	--
JUN				
09...	1102	-1.11	--	--
JUL				
26...	1512	1.18	--	--
AUG				
30...	1526	2.88	--	--
SEP				
20...	1034	3.00	--	--





COLLIER COUNTY—Continued

WELL NUMBER.--261311081480101. Local Number C 1061.

LOCATION.--Lat 26°13'11", long 81°48'01", in NW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.10, T.49 S., R.25 E., Hydrologic Unit 03090204, 150 ft south of Center Street and 200 ft east of U.S. Highway 41, 6.6 mi northwest of Collier County Government Center.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 25 ft, cased to 10 ft, screened 10 to 25 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 17.78 ft above National Geodetic Vertical Datum of 1929.

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

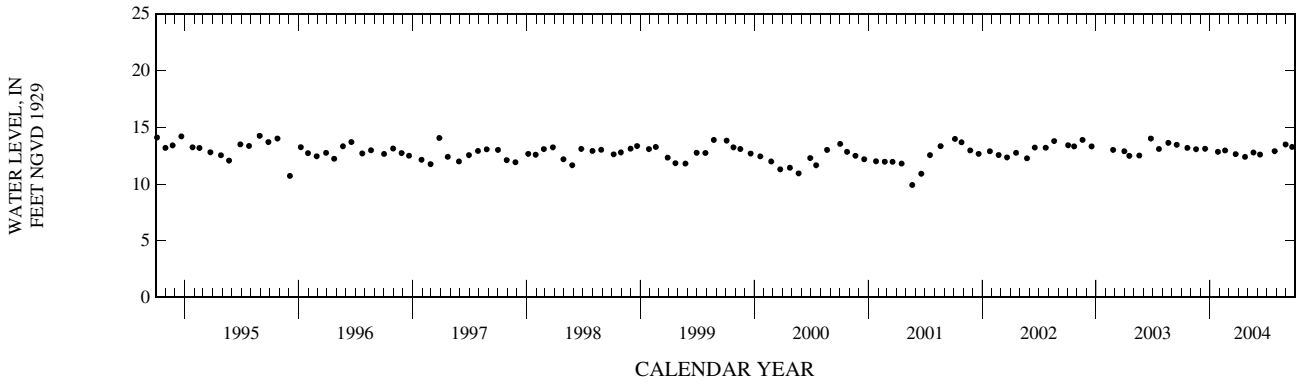
REMARKS.--Well is also used for salinity monitoring.

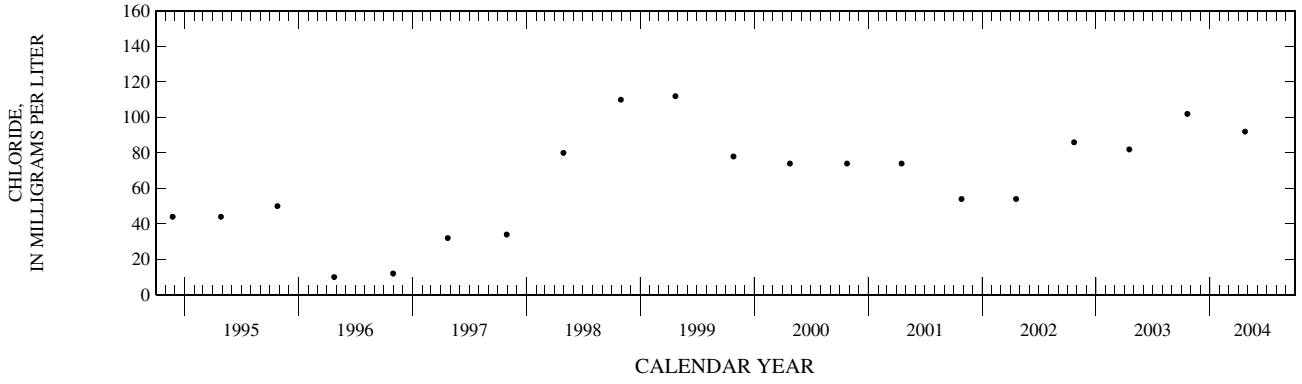
PERIOD OF RECORD.--April 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.95 ft NGVD, July 23, 1992; lowest, 9.91 ft NGVD, May 21, 2001.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
20...	1501	13.18	504	102
NOV				
17...	1344	13.06	--	--
DEC				
16...	1144	13.10	--	--
JAN				
26...	1503	12.83	--	--
FEB				
18...	1206	12.95	--	--
MAR				
23...	1151	12.63	--	--
APR				
22...	0836	12.39	613	92.0
MAY				
19...	1222	12.77	--	--
JUN				
09...	1057	12.59	--	--
JUL				
26...	1507	12.89	--	--
AUG				
30...	1521	13.48	--	--
SEP				
20...	1026	13.26	--	--





COLLIER COUNTY—Continued

WELL NUMBER.--261343081384801. Local Number C 980.

LOCATION.--Lat 26°13'46", long 81°38'44", landnet not available, Hydrologic Unit 03090204, at southwest corner of Golden Gate Parkway and 19th Street SW, 2.5 mi east of County Road 951 and 10.5 mi northeast of Naples Post Office. See REMARKS.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 5 in., depth 30 ft, cased to 15 ft, open hole 15 to 30 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 13.27 ft above National Geodetic Vertical Datum of 1929. Prior to May 31, 2001, top of casing was 17.77 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 15.0 ft above NGVD.

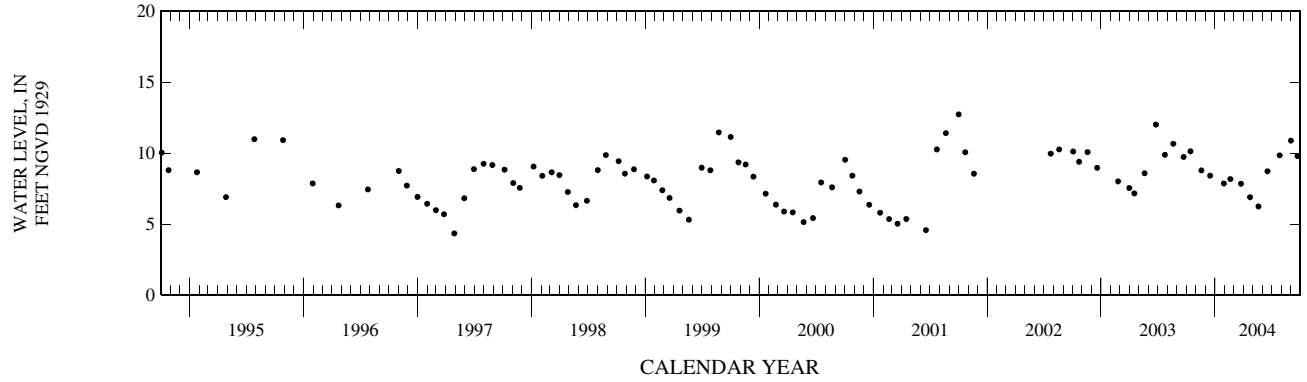
REMARKS.--Recent U.S. Geological Survey topographic maps do not provide landnet information for this area because it cannot be determined accurately. See LOCATION. Casing cut for new road construction in May 2001. See DATUM.

PERIOD OF RECORD.--October 1984 to September 1994 (monthly), October 1994 to September 1996 (quarterly), October 1996 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.74 ft NGVD, Oct. 1, 2001; lowest, 4.35 ft NGVD, Apr. 28, 1997.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
14...	0945	10.14	22...	1208	6.90
NOV			MAY		
18...	0858	8.79	19...	0822	6.25
DEC			JUN		
16...	0813	8.42	17...	1115	8.73
JAN			JUL		
29...	1123	7.87	26...	1031	9.85
FEB			AUG		
19...	0955	8.18	31...	1354	10.89
MAR			SEP		
24...	1006	7.85	21...	1216	9.80



COLLIER COUNTY—Continued

WELL NUMBER.--261347081351201. Local Number C 953.

LOCATION.--Lat 26°13'48", long 81°35'13", in NW $^1/_4$ NW $^1/_4$ sec.11, T.49 S., R.27 E., Hydrologic Unit 03090204, at southwest corner of 10th Street SE and Golden Gate Boulevard, 2.3 mi west of Everglades Boulevard and 12.9 mi northeast of the Collier County Government Center.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 40 ft, cased to 12 ft, open hole 12 to 40 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of recorder shelf, 16.34 ft above National Geodetic Vertical Datum of 1929. Prior to October 1995, measuring point was 16.69 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 12.4 ft above NGVD.

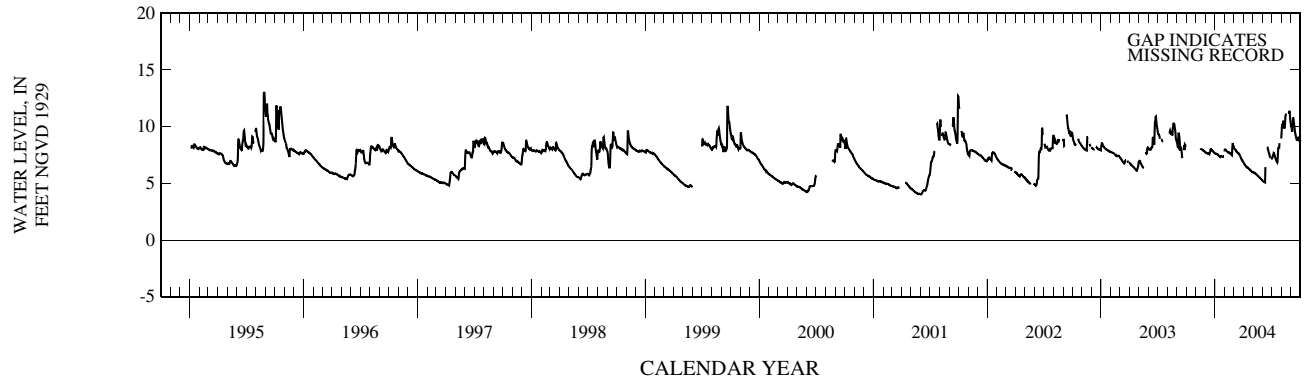
REMARKS.--Well is also used for salinity monitoring. Station damaged, repaired January 1995. See DATUM.

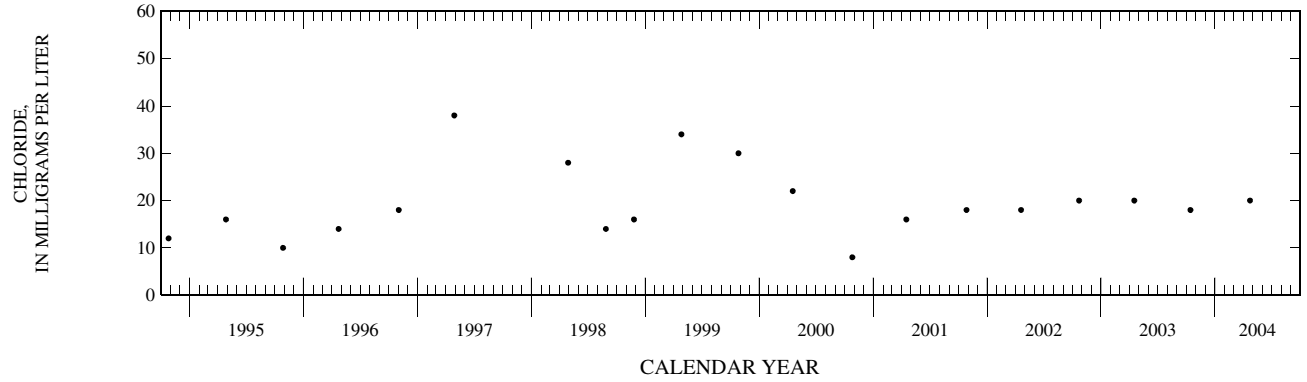
PERIOD OF RECORD.--October 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 13.05 ft NGVD, Aug. 27, 1995; lowest, 4.03 ft NGVD, June 2, 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	---	---	7.67	7.59	7.91	7.98	6.66	5.94	5.13	7.44	9.97	10.09
10	---	---	7.62	7.53	7.75	7.80	6.45	5.83	6.42	7.45	9.82	10.17
15	---	8.07	7.71	7.37	7.71	7.65	6.36	5.70	---	7.02	11.14	9.24
20	---	7.98	7.98	7.39	7.60	7.46	6.24	5.58	7.83	7.48	---	8.75
25	---	7.85	7.81	7.34	8.07	7.16	6.10	5.43	7.36	8.54	11.16	8.83
EOM	---	7.77	7.63	7.81	8.30	6.88	5.98	5.26	7.21	8.95	10.09	8.83
MAX	---	---	8.02	---	8.47	8.21	6.83	5.97	---	---	---	10.79





COLLIER COUNTY—Continued

WELL NUMBER.--261347081351202. Local Number C 951.

LOCATION.--Lat 26°13'48", long 81°35'13", in NW $^1/_4$ NW $^1/_4$ sec.11, T.49 S., R.27 E., Hydrologic Unit 03090204, at southwest corner of 10th Street SE and Golden Gate Boulevard, 2.3 mi west of Everglades Boulevard and 12.9 mi northeast of the Collier County Government Center.

AQUIFER.--Lower Tamiami aquifer of the Pliocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 170 ft, cased to 120 ft, open hole 120 to 170 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of recorder shelf, 16.27 ft above National Geodetic Vertical Datum of 1929.

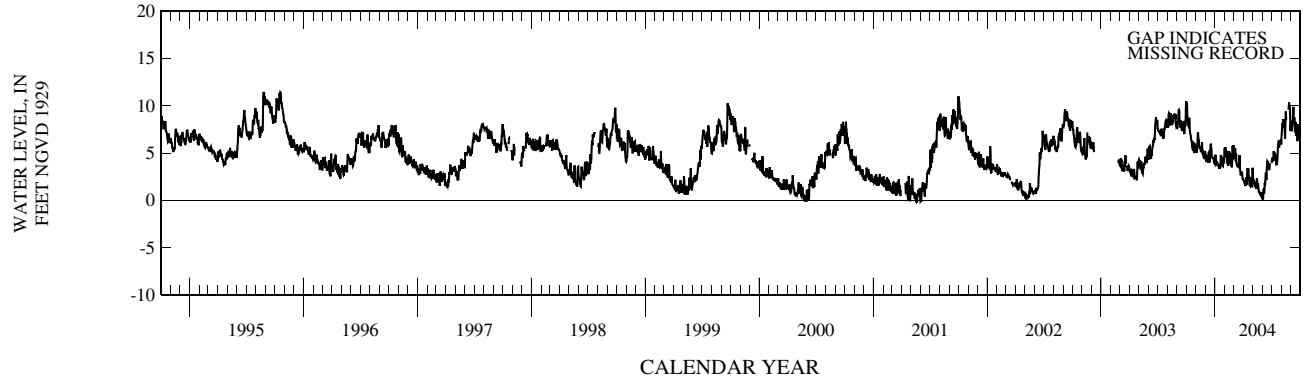
LAND-SURFACE DATUM.--Land surface is approximately 12.4 ft above NGVD.

PERIOD OF RECORD.--October 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 12.21 ft NGVD, Sept. 6, 1985; lowest, 0.25 ft below NGVD, May 20, 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	8.49	5.82	4.14	3.84	4.59	5.51	1.81	2.05	1.21	4.28	7.99	8.42
10	8.76	6.30	4.27	3.76	3.94	3.91	1.92	1.48	2.32	4.76	7.91	8.34
15	6.78	5.44	5.36	3.34	5.18	3.54	2.60	1.94	3.83	3.73	9.44	8.34
20	5.55	6.14	5.46	4.66	4.96	3.98	1.78	0.90	3.68	5.52	---	7.89
25	5.26	4.66	4.52	3.67	4.83	2.72	2.39	0.63	3.95	6.10	10.37	6.62
EOM	5.49	4.91	3.89	5.24	5.86	2.27	3.46	0.29	4.06	5.93	7.55	6.39
MAX	10.29	7.20	5.92	5.24	5.86	5.51	3.46	2.67	---	---	---	9.91



COLLIER COUNTY—Continued

WELL NUMBER.--261347081351701. Local Number C 948.

LOCATION.--Lat 26°13'47", long 81°35'17", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.11, T.49 S., R.27 E., Hydrologic Unit 03090204, 30 ft east of canal, 500 ft west of 10th Street SE, 100 ft south of Golden Gate Boulevard, 12.9 mi northwest of Collier County Government Center.

AQUIFER.--Mid-Hawthorn aquifer of the Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 420 ft, cased to 370 ft, open hole 370 to 420 ft.

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

DATUM.--Measuring point: Top of 4 in. plug, 15.20 ft above National Geodetic Vertical Datum of 1929. Prior to May 2001, measuring point was top of gate valve, 12.35 ft above NGVD.

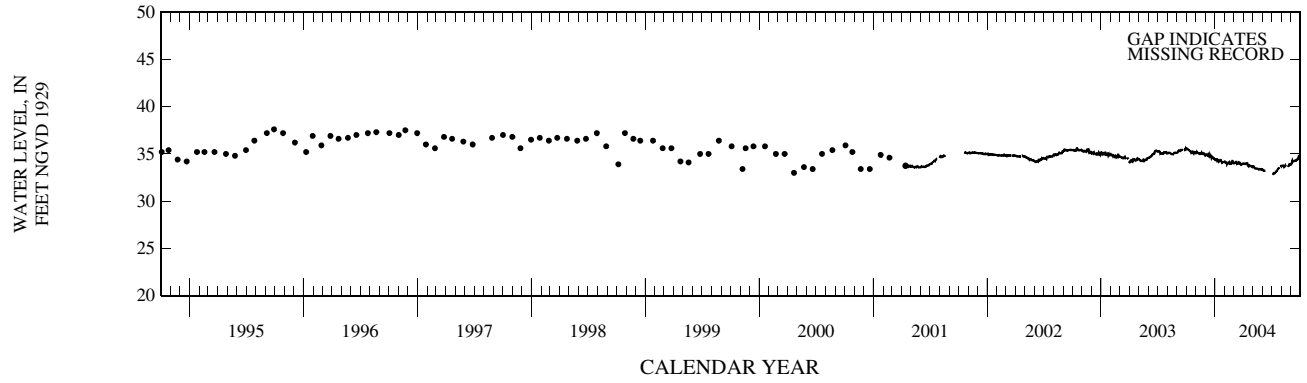
LAND-SURFACE DATUM.--Land surface is approximately 12.4 ft above NGVD.

PERIOD OF RECORD.--October 1984 to April 2001 (Monthly), May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 37.6 ft NGVD, Nov. 25, 1987, Jan. 28, 1988 and Sept. 28, 1995; lowest, 32.6 ft NGVD, Aug. 26, 1994.

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	35.50	35.11	34.94	34.43	34.06	34.05	33.95	33.59	33.26	32.88	33.72	34.31
10	35.39	35.07	34.93	34.37	34.03	34.07	33.92	33.47	---	32.95	33.64	34.21
15	35.23	35.01	34.76	34.26	34.15	34.04	33.80	33.46	---	33.16	33.67	34.29
20	35.13	35.07	34.64	34.26	34.07	33.97	33.79	33.36	---	33.41	---	34.39
25	35.04	35.03	34.57	34.12	34.27	33.85	33.71	33.37	---	33.58	33.78	34.74
EOM	35.06	34.85	34.38	34.18	34.01	34.00	33.66	33.38	---	33.73	33.88	34.65
MAX	35.59	35.19	34.94	---	34.27	34.13	34.02	33.69	---	---	---	34.87



COLLIER COUNTY—Continued

WELL NUMBER.--261405081465501. Local Number C 460.

LOCATION.--Lat 26°14'05", long 81°47'06", in SW ¼ SW ¼ NW ¼ sec.2, T.49 S., R.25 E., Hydrologic Unit 03090204, at 6855 Satin Leaf Road South, 75 ft north of Orange Blossom Drive, 0.40 mi east of Goodlette-Frank Road, 0.50 mi east of U.S. Highway 41 at Naples.

AQUIFER.--Lower Tamiami aquifer of Pliocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 2 in., depth 66 ft, cased to 64 ft, open hole 64 to 66 ft.

INSTRUMENTATION.--Electronic data logger with pressure transducer.

DATUM.--Measuring point: Top of casing, 13.46 ft above National Geodetic Vertical Datum of 1929. From May 1989 to September 1990, top of casing was 13.44 ft above NGVD. Prior to May 1989, top of casing was 12.39 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 12.5 ft above NGVD. (Corrected).

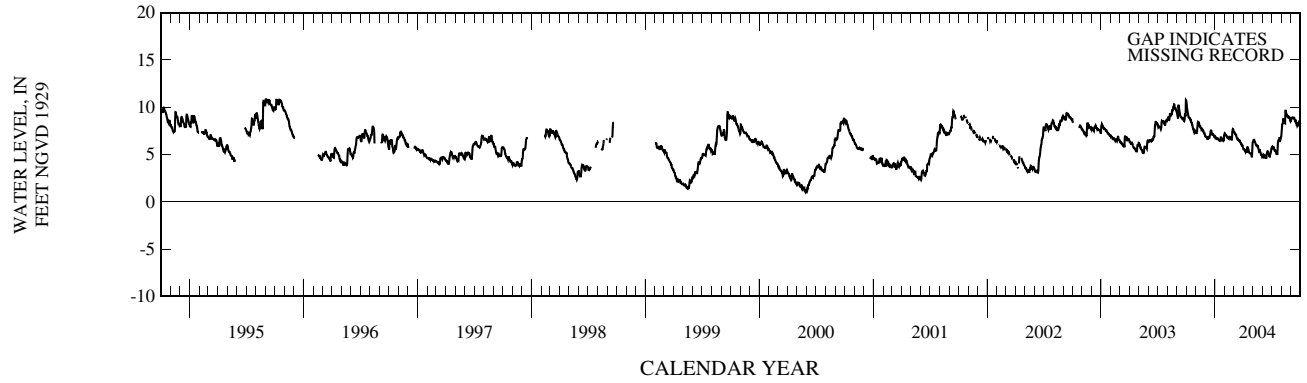
REMARKS.--Well is also used for salinity monitoring. Records of water levels prior to October 1983 are available in files of the U.S. Geological Survey. The figures of water levels as elevation, in ft NGVD, since October 1990 may be in error by up to -0.02 ft. Because the -0.02 ft correction that would be applied is close to the limit of accuracy for the recording equipment, no records have been corrected. See DATUM.

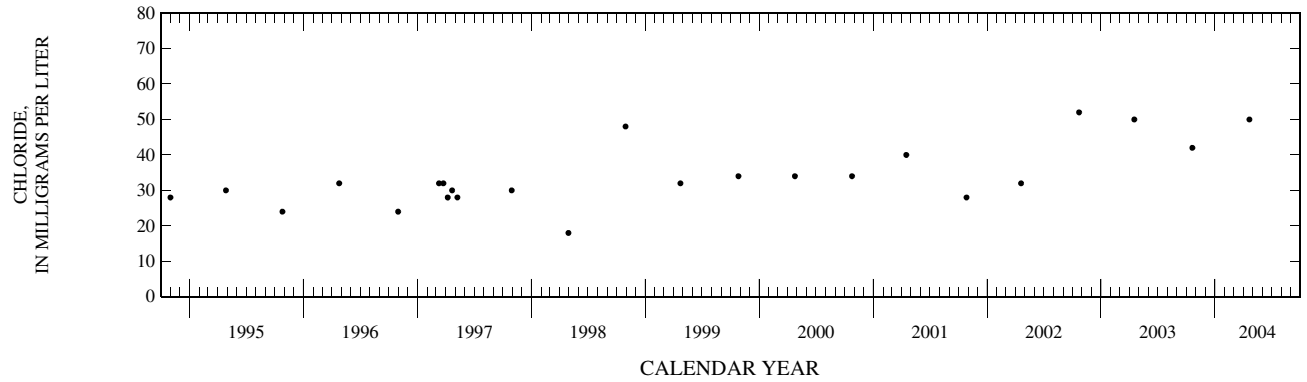
PERIOD OF RECORD.--August 1973 to April 1987 (semiannual), October 1982 to September 1984 (monthly), September 1984 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 10.83 ft NGVD, Sept. 2, 1995; lowest, 1.32 ft below NGVD, May 1, 1986.

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	9.48	7.91	6.86	6.71	7.03	7.19	5.53	6.57	4.98	5.75	8.31	8.92
10	8.89	8.38	6.71	6.72	6.75	6.87	5.31	6.15	4.86	5.41	8.35	8.89
15	8.63	7.95	7.01	6.46	6.88	6.56	5.62	5.91	5.17	5.14	9.56	8.62
20	8.12	7.74	7.47	6.82	6.72	6.47	5.18	5.39	5.15	6.21	9.10	8.04
25	7.48	7.36	7.17	6.50	7.35	6.06	5.08	5.25	5.03	6.33	8.98	8.26
EOM	7.41	6.94	6.86	7.15	7.45	5.70	6.23	4.71	5.68	6.86	8.57	8.36
MAX	10.49	8.45	7.55	7.15	7.69	7.40	6.23	6.57	5.68	6.86	9.73	8.92





COLLIER COUNTY—Continued

WELL NUMBER.--261435081472701. Local Number C 1094.

LOCATION.--Lat 26°14'38", long 81°47'26", in SW $^1/_4$ SE $^1/_4$ sec.34, T.48 S., R.25 E., Hydrologic Unit 03090204, 15 ft east of Hickory Road, 870 ft south of Carica Road in Naples.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 21 ft, cased to 19 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of 4 in. PVC casing, 10.82 ft above National Geodetic Vertical Datum of 1929. Prior to April 2003, top of casing was 12.56 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 10.4 ft above NGVD.

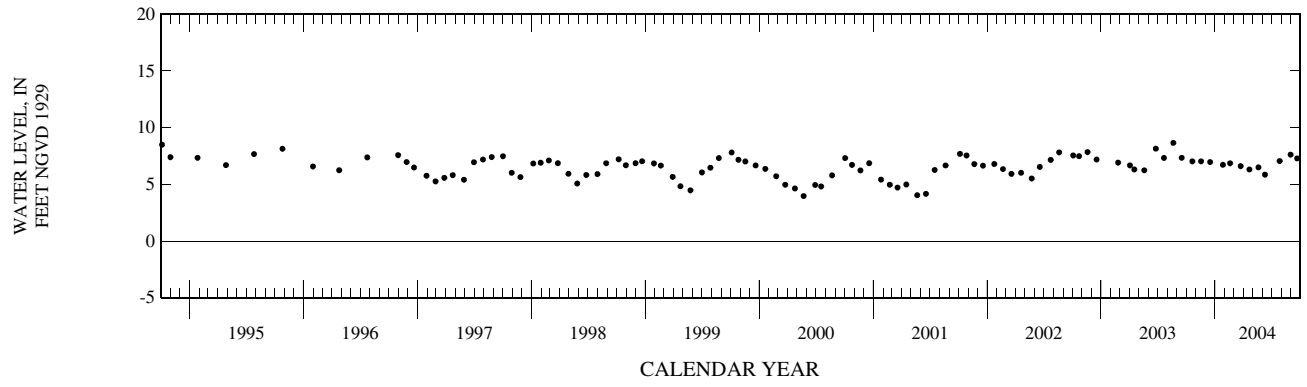
REMARKS.--Well was found damaged, repaired April 2003. See DATUM.

PERIOD OF RECORD.--September 1993 to September 1994 (monthly), October 1994 to September 1996 (quarterly), October 1996 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.65 ft NGVD, Aug. 20, 2003; lowest, 3.96 ft NGVD, May 22, 2000.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
20...	1439	7.02	20...	1541	6.31
NOV			MAY		
17...	1320	7.02	19...	1202	6.49
DEC			JUN		
16...	1134	6.96	09...	1047	5.85
JAN			JUL		
26...	1438	6.72	26...	1458	7.05
FEB			AUG		
18...	1140	6.85	30...	1513	7.61
MAR			SEP		
23...	1117	6.60	20...	1049	7.28



COLLIER COUNTY—Continued

WELL NUMBER.--261438081481001. Local Number C 575.

LOCATION.--Lat 26°13'17", long 81°48'04", in NE ¼ SE ¼ NE ¼ sec.9, T.49 S., R.25 E., Hydrologic Unit 03090204, 112 ft west of U.S. Highway 41, 0.75 mi north of Pine Ridge Road and 7 mi north of Naples.

AQUIFER.--Lower Hawthorn aquifer of Oligocene to Miocene Age, Geologic Unit 122 LMSN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 652 ft, cased to 352 ft, open hole 352 to 652 ft.

INSTRUMENTATION.--Monthly measurement with pressure gage.

DATUM.--Measuring point: Top of 4 in. PVC elbow, 17.51 ft above National Geodetic Vertical Datum of 1929. From March 16, 1987 to April 2003, measuring point was top of 3 in. by 1.5 in. reducer pipe, 15.52 ft above NGVD. Prior to March 16, 1987, measuring point was 15.74 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 14.5 ft above NGVD. (Corrected).

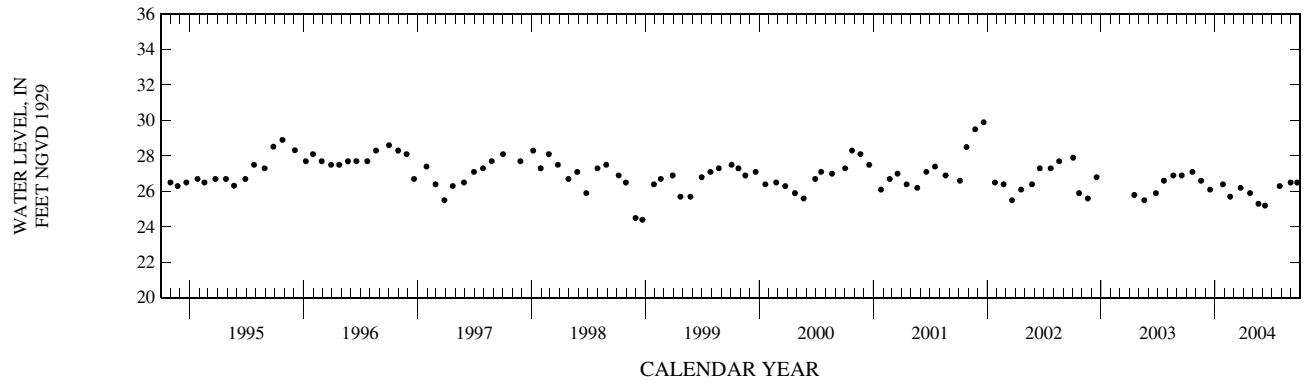
REMARKS.--The well was reconstructed after being damaged: March 1987, April 2003. See DATUM. Records of water levels prior to October 1981 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--March 1979 to September 1993 (monthly), October 1993 to September 1994 (semiannual), October 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 31.2 ft NGVD, Sept. 27, 1982; lowest, 23.3 ft NGVD, Apr. 29, 1994.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
20...	1542	27.1	22...	0826	25.9
NOV			MAY		
17...	1405	26.6	19...	1244	25.3
DEC			JUN		
16...	1204	26.1	09...	1112	25.2
JAN			JUL		
26...	1520	26.4	26...	1523	26.3
FEB			AUG		
18...	1223	25.7	30...	1538	26.5
MAR			SEP		
23...	1208	26.2	20...	1042	26.5



COLLIER COUNTY—Continued

WELL NUMBER.--261444081284901. Local Number C 988.

LOCATION.--Lat 26°14'47", long 81°28'49", in NE $^1/_4$ NE $^1/_4$ sec.2, T.49 S., R.28 E., Hydrologic Unit 03090204, 100 ft west of farm road, 3.6 mi south of intersection of County Road 858 and Oil Grade Road and 12.7 mi south of Immokalee.

AQUIFER.--Lower Tamiami aquifer of the Pliocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 160 ft, cased to 95 ft, open hole 95 to 160 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of recorder shelf, 20.41 ft above National Geodetic Vertical Datum of 1929.

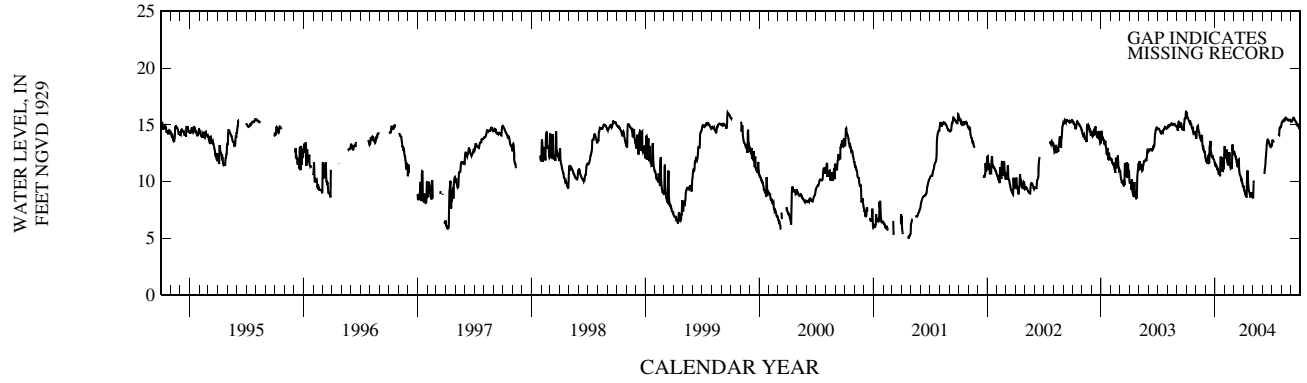
LAND-SURFACE DATUM.--Land surface is approximately 15.7 ft above NGVD.

PERIOD OF RECORD.--October 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 16.16 ft NGVD, Sept. 30, 2003; lowest, 3.87 ft NGVD, Apr. 3, 1989.

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	15.65	14.84	11.95	11.41	12.11	12.33	9.17	---	---	13.54	15.26	15.46
10	15.34	14.42	12.30	11.14	11.61	11.71	8.67	---	11.51	---	15.36	15.56
15	15.05	13.80	13.17	10.68	12.60	11.43	10.33	---	13.46	---	15.59	15.32
20	14.68	14.11	12.37	11.96	11.16	10.61	9.07	---	13.60	---	15.47	14.98
25	14.26	12.75	12.11	10.97	12.91	10.10	9.06	---	13.10	14.64	15.42	14.86
EOM	14.02	12.21	11.66	12.93	12.56	9.68	9.03	---	13.20	14.88	15.30	14.84
MAX	16.10	14.93	13.59	12.93	13.28	12.58	10.98	---	---	---	15.63	15.61



COLLIER COUNTY—Continued

WELL NUMBER.--261508081484902. Local Number C 999.

LOCATION.--Lat 26°15'09", long 81°48'52", in SW $^1/_4$ NW $^1/_4$ sec.33, T.48 S., R.25 E., Hydrologic Unit 03090204, 30 ft north of Vanderbilt Beach Road, 0.85 mi west of U.S. Highway 41 and 6.5 mi north of Naples.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 23 ft, cased to 13 ft, screened 13 to 23 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 10.43 ft above National Geodetic Vertical Datum of 1929. From September 1998 to August 2002, top of casing was 8.00 ft above NGVD. Prior to August 1998, top of casing was 10.70 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 7.9 ft above NGVD. (Corrected).

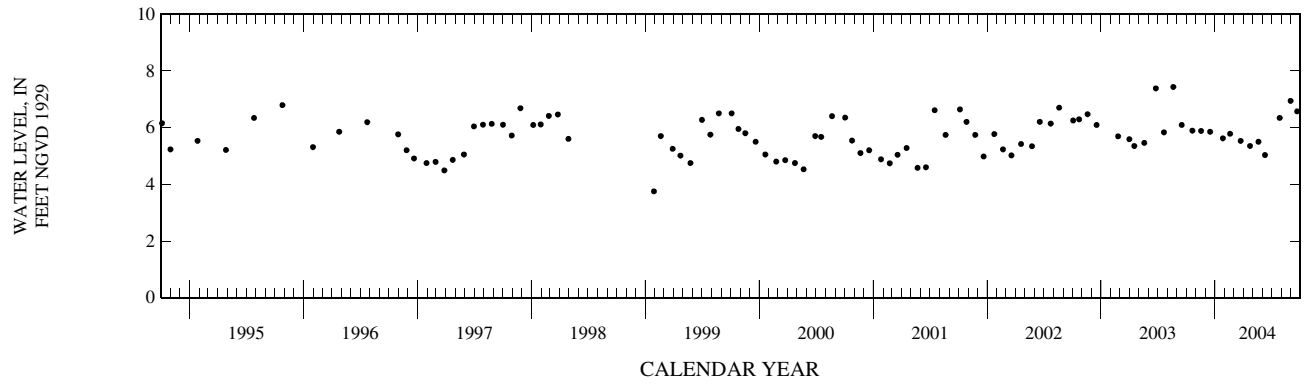
REMARKS.--Well also used for salinity monitoring, 1985 to 1993. Well damaged and repaired in September 1998, September 2002. See DATUM.

PERIOD OF RECORD.--April 1985 to September 1994 (monthly), October 1994 to September 1996 (quarterly), October 1996 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.00 ft NGVD, Aug. 19, 1992; lowest, 1.56 ft NGVD, July 28, 1986.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
20...	1555	5.89	22...	0929	5.35
NOV			MAY		
17...	1415	5.88	19...	1255	5.50
DEC			JUN		
16...	1212	5.85	09...	1119	5.03
JAN			JUL		
26...	1530	5.62	26...	1530	6.34
FEB			AUG		
18...	1236	5.78	30...	1546	6.94
MAR			SEP		
23...	1220	5.53	20...	1057	6.57



COLLIER COUNTY—Continued

WELL NUMBER.--261530081412001. Local Number C 997.

LOCATION.--Lat 26°15'31", long 81°41'18", in SE $^1/_4$ SE $^1/_4$ sec.27, T.48 S., R.26 E., Hydrologic Unit 03090204, 75 ft east of County Road 951, 1.0 mi south of County Road 846 and 9.5 mi northeast of Naples.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 22 ft, cased to 12 ft, screened 12 to 22 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 16.92 ft above National Geodetic Vertical Datum of 1929. Prior to April 11, 2003, top of base was 16.76 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 14.3 ft above NGVD.

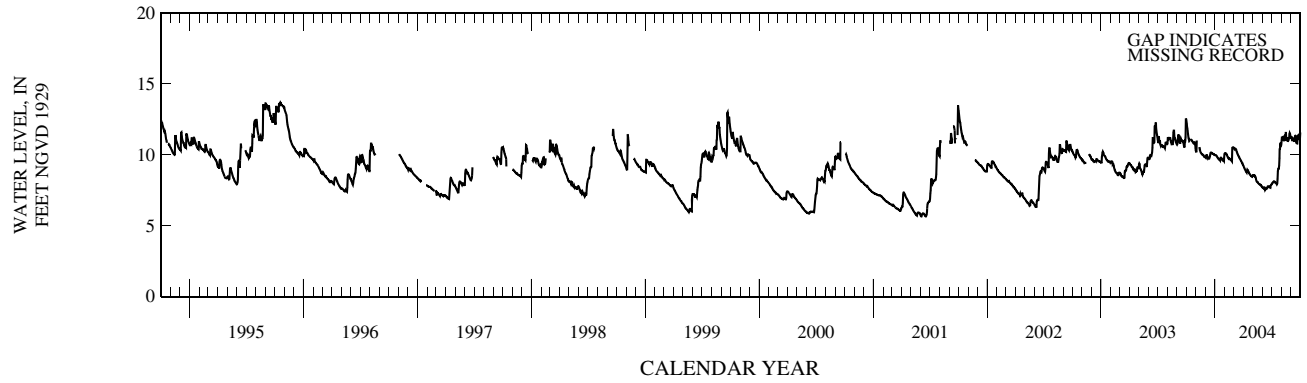
REMARKS.--Well damaged during nearby construction activities, repaired April 2003.

PERIOD OF RECORD.--March 1985 to September 1985 (monthly), October 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 13.67 ft NGVD, Oct. 19, 1995; lowest, 5.53 ft NGVD, June 18, 1989.

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	11.70	---	9.99	9.95	10.09	10.45	9.03	8.57	7.63	8.10	11.04	11.07
10	10.96	---	9.78	9.79	9.87	10.28	8.79	8.43	7.57	8.10	11.30	11.12
15	11.06	10.23	9.90	9.66	9.76	9.98	8.90	8.09	7.65	8.00	11.62	11.34
20	10.96	10.06	10.16	9.80	9.66	9.74	8.69	7.97	7.79	8.85	11.19	10.82
25	10.80	9.97	10.08	9.65	10.50	9.54	8.52	7.90	7.70	9.77	11.16	11.26
EOM	10.31	9.84	9.99	10.04	10.51	9.27	8.52	7.75	7.91	10.68	11.23	11.59
MAX	---	---	10.17	10.04	10.53	10.50	9.25	8.57	7.91	10.80	11.62	11.59



COLLIER COUNTY—Continued

WELL NUMBER.--261537081461201. Local Number C 1057.

LOCATION.--Lat 26°15'36", long 81°46'12", in NE $^1/_4$ SE $^1/_4$ SE $^1/_4$ sec.26, T.48 S., R.25 E., Hydrologic Unit 03090204, 0.9 mi south of County Road 846 and 43 ft west of County Road 31, 9.1 mi north of Collier County Government Center.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 8 in., depth 10.5 ft, cased to 8 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 10.89 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 10.9 ft above NGVD.

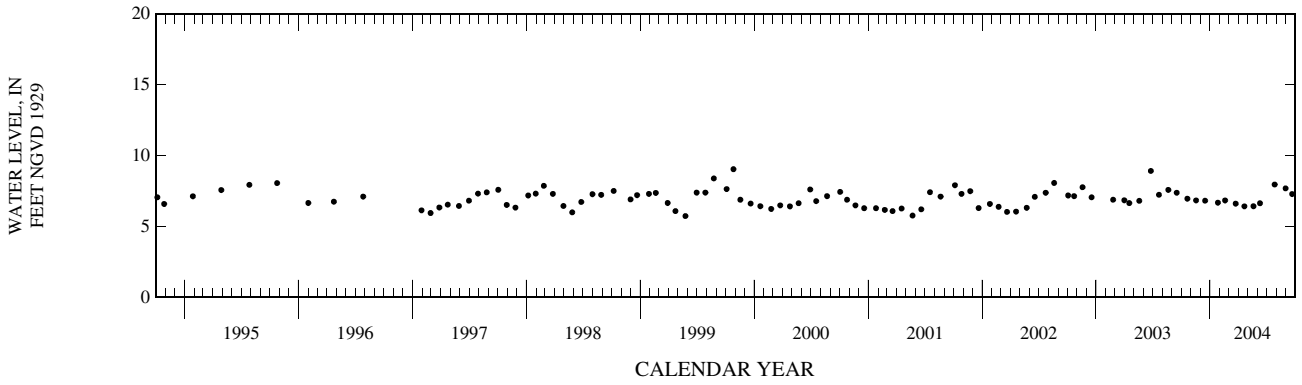
REMARKS.--Well discontinued September 2004.

PERIOD OF RECORD.--April 1986 to September 1994 (monthly), October 1994 to September 1996 (quarterly), October 1996 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.04 ft NGVD, Oct. 26, 1999; lowest, 4.82 ft NGVD, Nov. 29, 1988.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
20...	0930	6.96	20...	0911	6.42
NOV			MAY		
17...	0933	6.84	19...	0834	6.43
DEC			JUN		
16...	0719	6.82	09...	0743	6.64
JAN			JUL		
26...	0913	6.68	26...	1103	7.96
FEB			AUG		
18...	0741	6.84	30...	1034	7.69
MAR			SEP		
23...	0719	6.61	20...	0802	7.29



COLLIER COUNTY—Continued

WELL NUMBER.--261537081461202. Local Number C 1058.

LOCATION.--Lat 26°15'36", long 81°46'12", in NE $^1/_4$ SE $^1/_4$ SE $^1/_4$ sec.26, T.48 S., R.25 E., Hydrologic Unit 03090204, 0.90 mi south of County Road 846 and 43 ft west of County Road 31, 9.1 mi north of Collier County Government Center.

AQUIFER.--Lower Tamiami aquifer of the Pliocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 80 ft, cased to 62 ft, 62 to 80 ft of open hole.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 13.39 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 12.1 ft above NGVD.

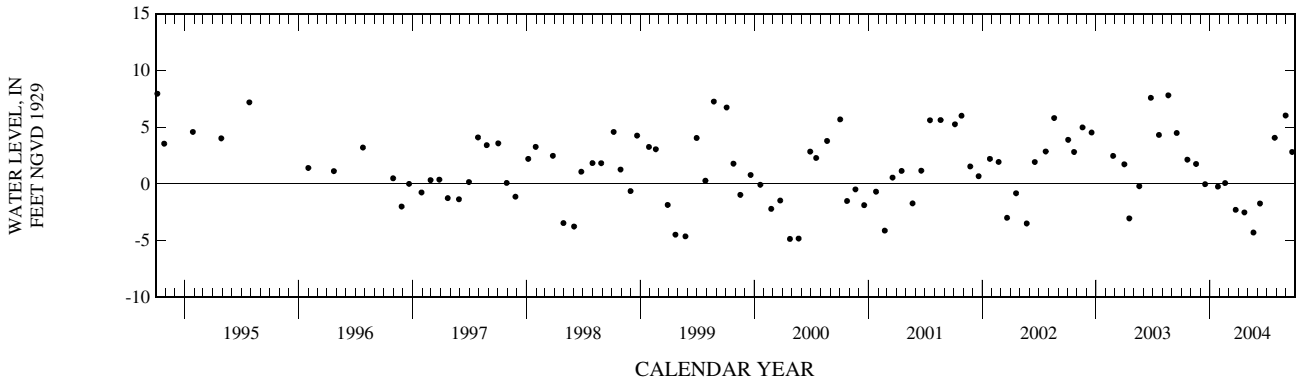
REMARKS.--Well discontinued September 2004.

PERIOD OF RECORD.--April 1986 to September 1994 (monthly), October 1994 to September 1996 (quarterly), October 1996 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.24 ft NGVD, Oct. 24, 1995; lowest, 5.78 ft below NGVD, Mar. 29, 1989.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
20...	0932	2.14	20...	0905	-2.51
NOV			MAY		
17...	0935	1.76	19...	0838	-4.28
DEC			JUN		
16...	0721	-.02	09...	0742	-1.72
JAN			JUL		
26...	0934	-.23	26...	1105	4.07
FEB			AUG		
18...	0738	.08	30...	1032	6.03
MAR			SEP		
23...	0721	-2.28	20...	0803	2.82



COLLIER COUNTY—Continued

WELL NUMBER.--261604081480901. Local Number C 1059.

LOCATION.--Lat 26°16'04", long 81°48'09", in NE $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.28, T.48 S., R.25 E., Hydrologic Unit 03090204, 20 ft behind Fire House on 106th Avenue and 300 ft west of U.S. Highway 41, 9.7 mi northwest of Collier County Government Center.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 25 ft, cased to 10 ft, screened 10 to 25 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 12.82 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 9.3 ft above NGVD.

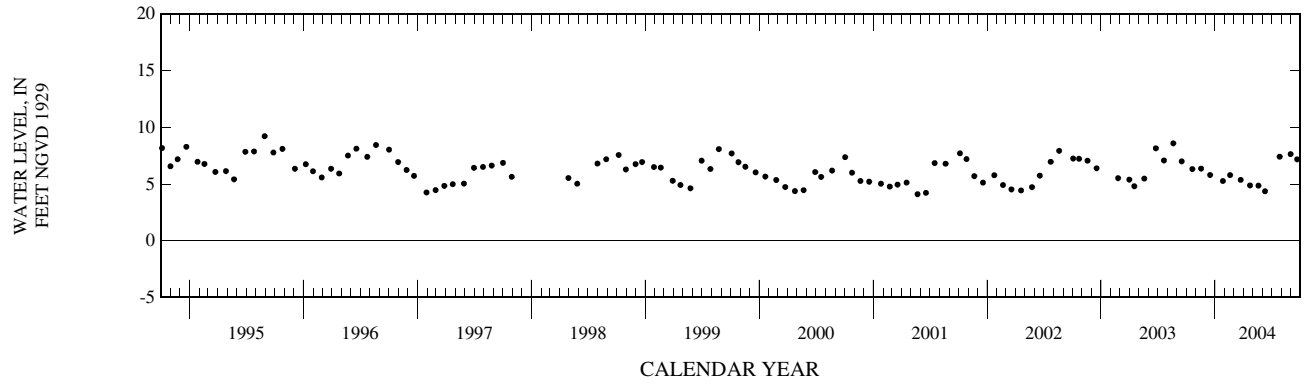
REMARKS.--Well is also used for salinity monitoring.

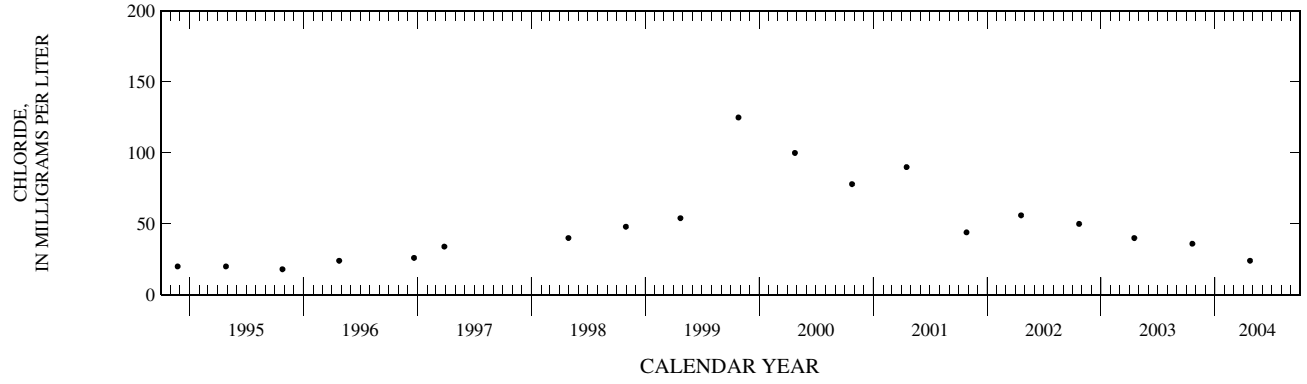
PERIOD OF RECORD.--April 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.21 ft NGVD, Aug. 29, 1995; lowest, 3.17 ft NGVD, Apr. 23, 1987.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
20...	1607	6.31	253	36.0
NOV				
17...	1424	6.35	--	--
DEC				
16...	1221	5.79	--	--
JAN				
26...	1537	5.26	--	--
FEB				
18...	1245	5.78	--	--
MAR				
23...	1227	5.36	--	--
APR				
22...	0944	4.87	345	24.0
MAY				
19...	1304	4.85	--	--
JUN				
09...	1127	4.36	--	--
JUL				
26...	1539	7.40	--	--
AUG				
30...	1555	7.63	--	--
SEP				
20...	1104	7.17	--	--





COLLIER COUNTY—Continued

WELL NUMBER.--261620081450201. Local Number C 998.

LOCATION.--Lat 26°16'22", long 81°45'02", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.19, T.48 S., R.26 E., Hydrologic Unit 03090204, 30 ft north of County Road 846, 0.75 mi west of U.S. Interstate 75 and 8.5 mi northeast of Naples.

AQUIFER.--Lower Tamiami aquifer of the Pliocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 62 ft, cased to 52 ft, screened 52 to 62 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of base, 17.84 ft above National Geodetic Vertical Datum of 1929. Prior to July 1990, measuring point was top of casing, 18.89 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 16.7 ft above NGVD.

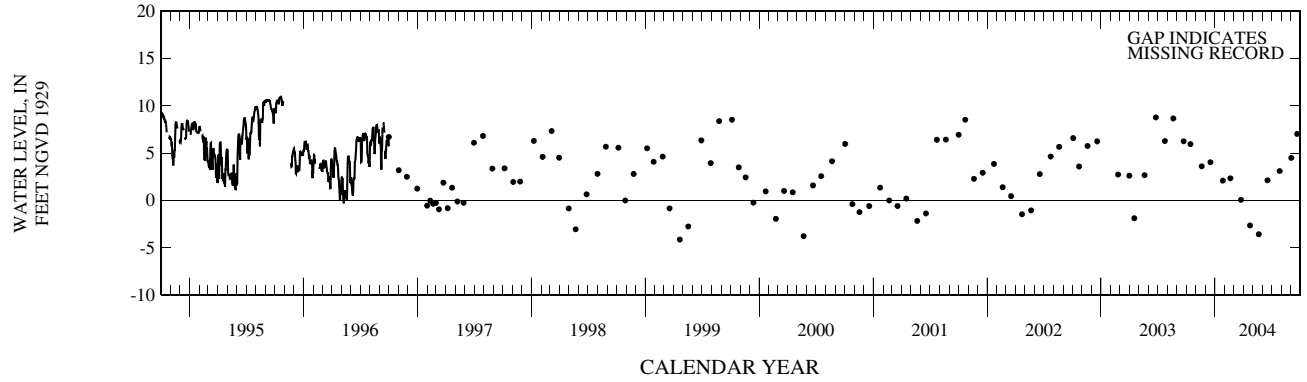
REMARKS.--Well is also used for salinity monitoring. Conductivity and chloride profiles are available in the files of the U.S. Geological Survey.

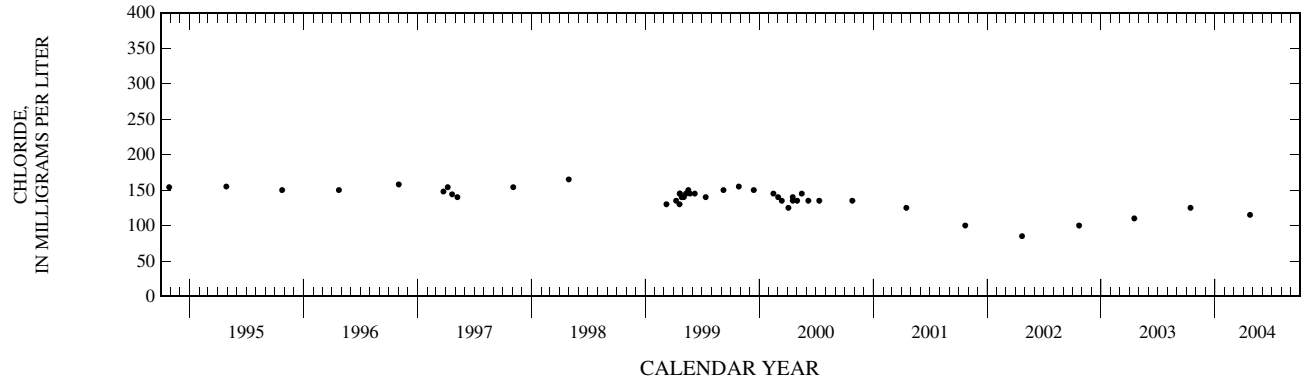
PERIOD OF RECORD.--March 1985 to June 1990 (monthly), July 1990 to September 1996 (daily), October 1996 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 10.98 ft NGVD, Oct. 20, 1995; lowest water level measured, 5.72 ft below NGVD, Mar. 28, 1990. (Corrected).

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
14...	0908	5.97	1,040	125
NOV				
19...	0903	3.62	--	--
DEC				
17...	1052	4.05	--	--
JAN				
26...	1023	2.10	--	--
FEB				
19...	0930	2.35	--	--
MAR				
24...	0939	.07	--	--
APR				
22...	1003	-2.63	987	115
MAY				
20...	0854	-3.56	--	--
JUN				
17...	1034	2.14	--	--
JUL				
26...	1004	3.12	--	--
SEP				
01...	1238	4.51	--	--
20...	1150	7.04	--	--





COLLIER COUNTY—Continued

WELL NUMBER.--261620081464402. Local Number C 1004R.

LOCATION.--Lat 26°16'22", long 81°46'44", in SW $^1/_4$ SE $^1/_4$ SE $^1/_4$ sec.23, T.48 S., R.25 E., Hydrologic Unit 03090204, 20 ft east of Palm River Boulevard, 40 ft south of Piper Boulevard, 200 ft north of Immokalee Road (County Road 846), and 7.8 mi north of Naples.

AQUIFER.--Lower Tamiami aquifer of the Pliocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 60 ft, cased to 52 ft, open hole 52 to 60 ft.

INSTRUMENTATION.--Satellite data collection platform, with pressure transducer.

DATUM.--Measuring point: Top of base, 12.38 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 10.5 ft above NGVD.

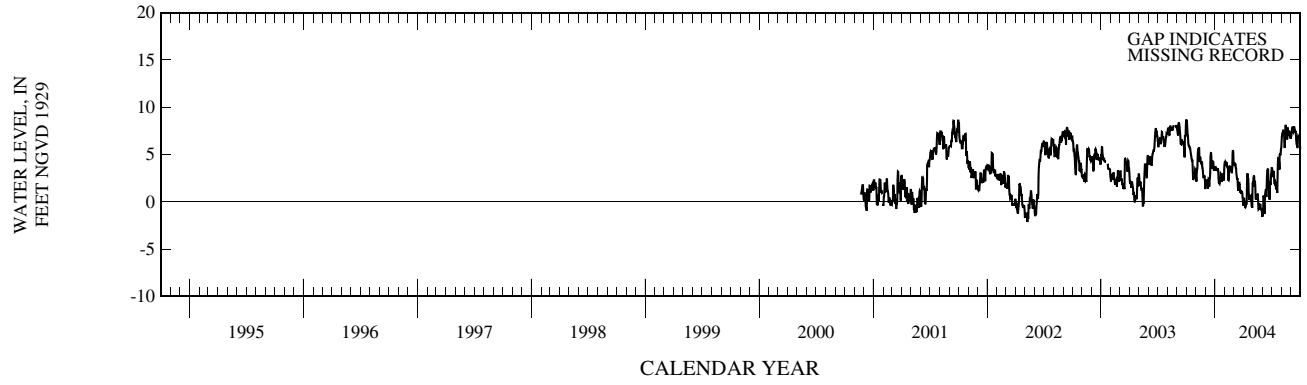
REMARKS.--Replacement well for C-1004. Well is also used for salinity monitoring.

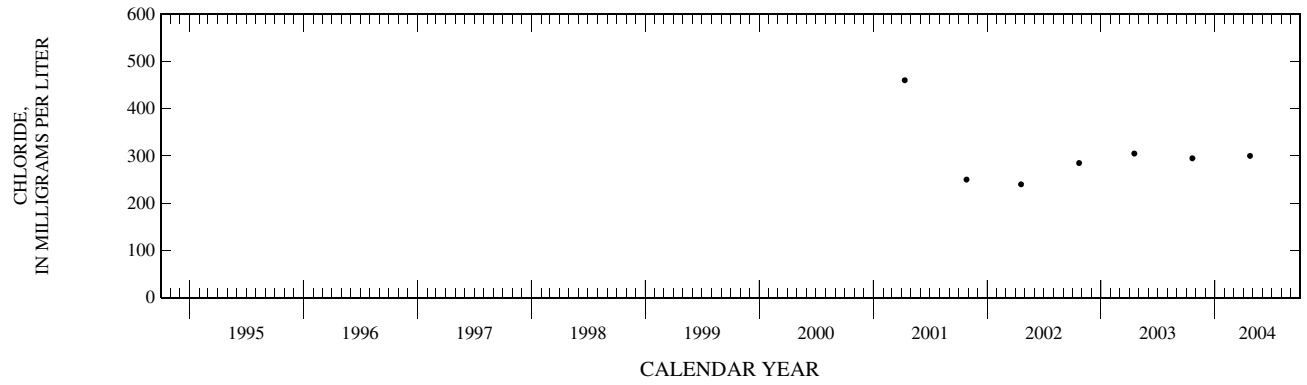
PERIOD OF RECORD.--November 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.62 ft NGVD, Sept. 30, 2003; lowest, 2.14 ft below NGVD, May 9, 2002.

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	7.14	3.58	2.26	3.45	4.11	4.03	0.00	2.68	0.56	2.94	7.26	7.88
10	5.84	5.79	1.95	3.50	3.66	2.80	-0.25	0.41	1.02	1.92	6.09	7.99
15	5.08	4.63	2.50	1.93	3.66	1.18	2.57	0.62	2.79	1.31	8.09	7.44
20	4.36	4.20	4.47	2.93	3.67	1.65	0.19	-0.71	2.38	4.19	7.75	5.79
25	2.52	2.50	4.28	2.88	3.68	0.87	0.27	-0.31	2.07	3.42	7.30	6.91
EOM	2.90	1.35	3.59	3.91	4.12	0.07	1.94	-1.60	3.56	5.69	7.03	5.62
MAX	8.62	5.79	5.14	3.91	5.47	4.11	2.95	2.71	3.56	5.69	8.14	7.99





COLLIER COUNTY—Continued

WELL NUMBER.--261621081412302. Local Number C 303.

LOCATION.--Lat 26°16'23", long 81°41'23", in NE $^1/_4$ NE $^1/_4$ sec.27, T.48 S., R.26 E., Hydrologic Unit 03090204, 30 ft west and 15 ft south of the intersection of Collier Boulevard (County Road 951) and County Road 846, 9 mi northeast of the Naples Post Office.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 3 in., depth 300 ft, cased to 232 ft, open hole 232 to 300 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 17.08 ft above National Geodetic Vertical Datum of 1929. Prior to May 2001 measuring point was 17.91 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 18.1 ft above NGVD.

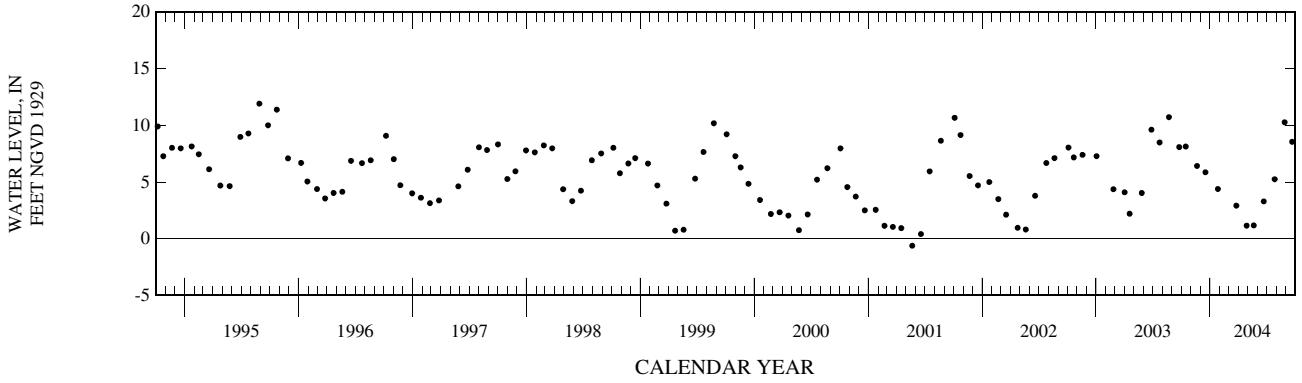
REMARKS.--Well is also used for salinity monitoring. The open-hole portion of this well is collapsed or obstructed. Chloride samples are being collected from a depth of 230 ft. Records of water levels prior to October 1983 are available in files of the U.S. Geological Survey. In May 2001, the station was reconstructed because of road construction in the area. See DATUM.

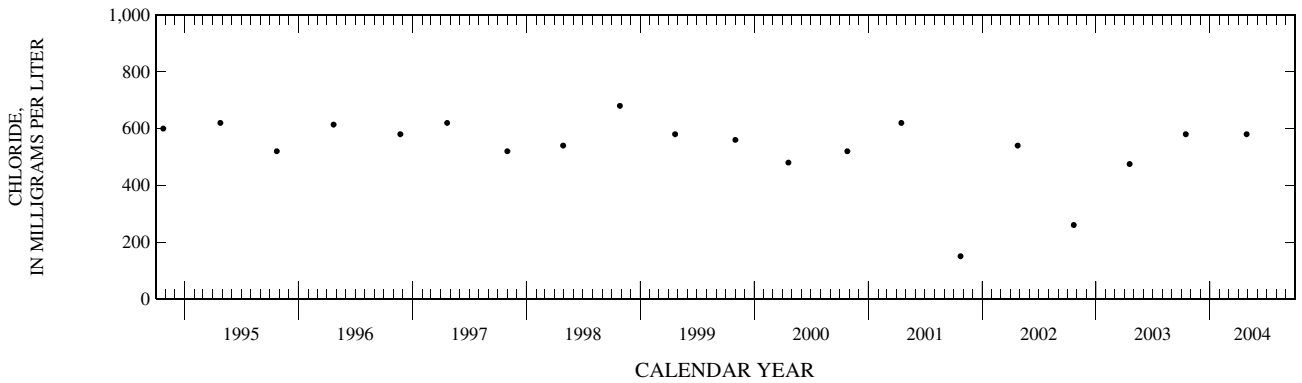
PERIOD OF RECORD.--August 1959 to October 1981 (intermittent), October 1982 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.90 ft NGVD, Aug. 28, 1995; lowest, 0.62 ft below NGVD, May 21, 2001.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
15...	1133	8.12	2,120	580
NOV				
20...	0814	6.41	--	--
DEC				
17...	1107	5.85	--	--
JAN				
26...	1028	4.38	--	--
FEB				
26-26	1517	5.82	--	--
MAR				
25...	1104	2.91	--	--
APR				
27...	1434	1.15	2,220	580
MAY				
20...	1314	1.17	--	--
JUN				
21...	1015	3.29	--	--
JUL				
26...	0919	5.24	--	--
AUG				
27...	1106	10.26	--	--
SEP				
20...	0818	8.54	--	--





COLLIER COUNTY—Continued

WELL NUMBER.--261630081360001. Local Number C 304.

LOCATION.--Lat 26°16'36", long 81°36'15", in NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.27, T.48 S., R.27 E., Hydrologic Unit 03090204, 20 ft south of County Road 846, 0.25 mi west of Randall Boulevard and 12 mi northeast of the Naples Post Office.

AQUIFER.--Lower Tamiami aquifer of the Pliocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 2 in., depth 130 ft, cased to 125 ft, open hole 125 to 130 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of coupling, 17.59 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 15.6 ft above NGVD.

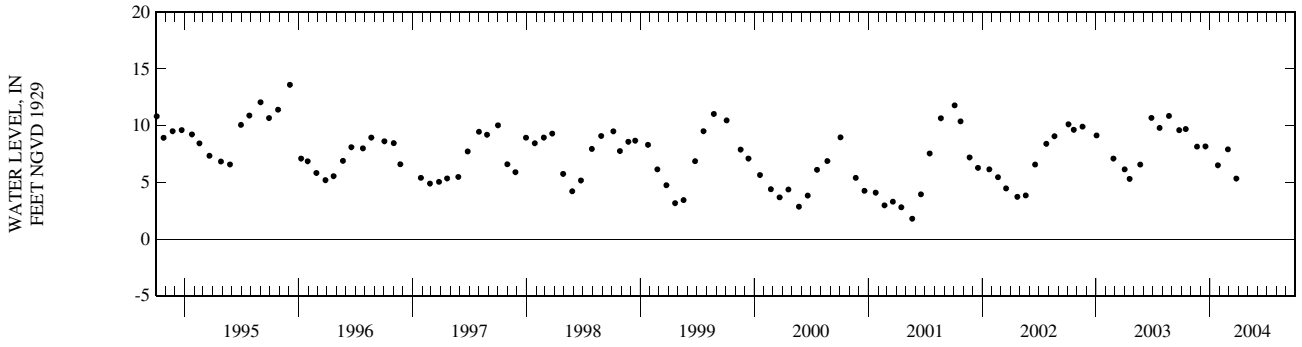
REMARKS.--Well is also used for salinity monitoring. Records of water levels prior to October 1983 are available in files of the U.S. Geological Survey. Well was destroyed April 2004.

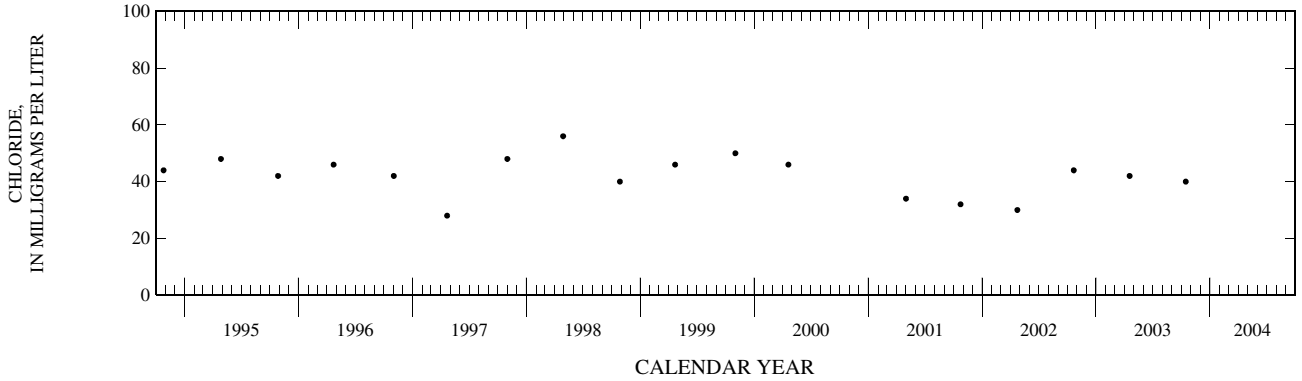
PERIOD OF RECORD.--August 1959 to October 1981 (intermittent), October 1982 to March 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.59 ft NGVD, Dec. 4, 1995; lowest, 1.79 ft NGVD, May 21, 2001.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
15...	1222	9.69	645	40.0
NOV				
20...	0844	8.14	--	--
DEC				
17...	1135	8.16	--	--
JAN				
26...	1107	6.50	--	--
FEB				
27...	0909	7.90	--	--
MAR				
25...	1306	5.33	--	--





COLLIER COUNTY—Continued

WELL NUMBER.--261733081285501. Local Number C 984.

LOCATION.--Lat 26°17'38", long 81°28'54", in NE ¼ NE ¼ sec.23, T.48 S., R.28 E., Hydrologic Unit 03090204, at southeast corner of Oil Grade Road and County Road 858, 7 mi east of County Road 846 and 9.4 mi south of Immokalee.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 40 ft, cased to 30 ft, open hole 30 to 40 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 23.38 ft above National Geodetic Vertical Datum of 1929. Prior to February 1995, top of casing was 23.50 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 20.3 ft above NGVD.

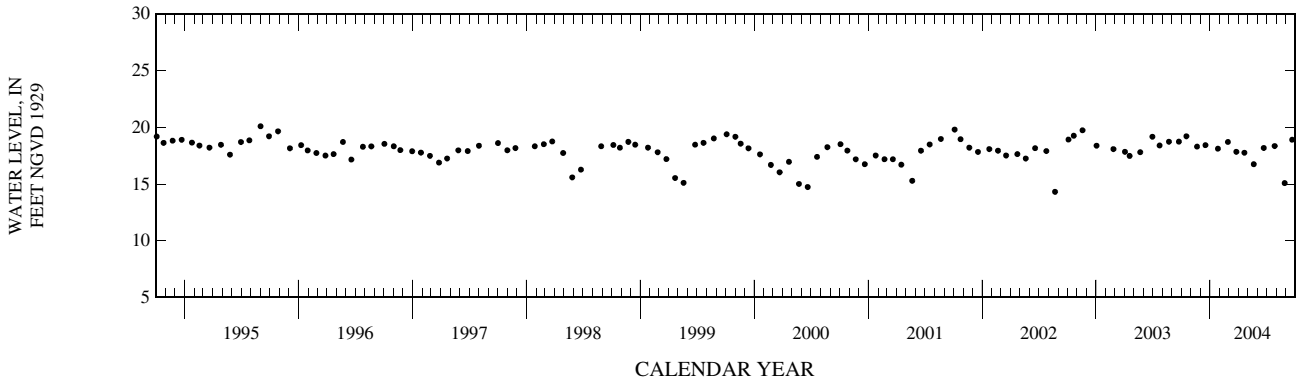
REMARKS.--Station damaged, repaired February 3, 1995. See DATUM.

PERIOD OF RECORD.--October 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.08 ft NGVD, Sept. 1, 1995; lowest, 14.04 ft NGVD, May 28, 1986.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
17...	1259	19.20	20...	1038	17.75
NOV			MAY		
20...	1223	18.29	20...	1018	16.74
DEC			JUN		
17...	1404	18.42	21...	1214	18.17
JAN			JUL		
26...	1512	18.11	26...	1000	18.34
FEB			AUG		
27...	1509	18.70	27...	1426	15.08
MAR			SEP		
25...	1515	17.83	20...	0918	18.90



COLLIER COUNTY—Continued

WELL NUMBER.--261733081285502. Local Number C 989.

LOCATION.--Lat 26°17'38", long 81°28'54", in NE ¼ NE ¼ sec.23, T.48 S., R.28 E., Hydrologic Unit 03090204, at southeast corner of Oil Grade Road and County Road 858, 7 mi east of County Road 846 and 9.4 mi south of Immokalee.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 270 ft, cased to 240 ft, open hole 240 to 270 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 24.30 ft above National Geodetic Vertical Datum of 1929. From October 1996 to September 1999, measuring point was incorrectly considered to be top of flange, 24.44 ft above NGVD. Prior to October 1996, measuring point was top of flange, 24.44 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 20.3 ft above NGVD.

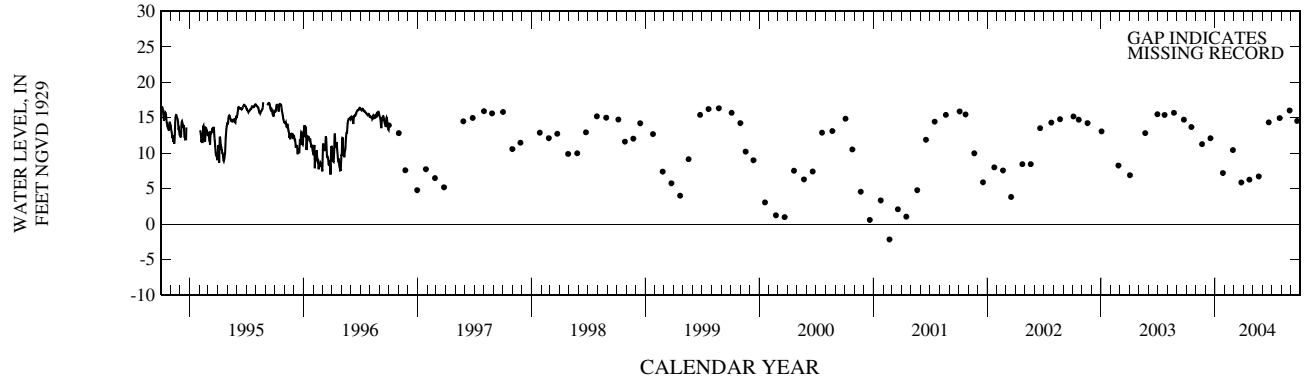
REMARKS.--The figures of water level as elevation, in feet NGVD, from October 1996 to September 1999 are in error. A -0.14 ft correction has been applied to correct water-level data from October 1996 to September 1999. Corrected records are in the files of the U.S. Geological Survey. See DATUM.

PERIOD OF RECORD.--October 1984 to September 1996 (daily), November 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 17.30 ft NGVD, July 24, 1991; lowest, 3.96 ft below NGVD, Apr. 3, 1989.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
17...	1313	13.69	20...	1046	6.27
NOV			MAY		
20...	1219	11.28	20...	1035	6.74
DEC			JUN		
17...	1410	12.12	21...	1201	14.35
JAN			JUL		
26...	1520	7.21	26...	1432	14.96
FEB			AUG		
27...	1512	10.45	27...	1340	16.03
MAR			SEP		
25...	1504	5.88	20...	0909	14.55



COLLIER COUNTY—Continued

WELL NUMBER.--261733081285503. Local Number C 985.

LOCATION.--Lat 26°17'38", long 81°28'54", in NE $^1/_4$ NE $^1/_4$ sec.23, T.48 S., R.28 E., Hydrologic Unit 03090204, at southeast corner of Oil Grade Road and County Road 858, 7 mi east of County Road 846 and 9.4 mi south of Immokalee.

AQUIFER.--Lower Tamiami aquifer of the Pliocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 160 ft, cased to 80 ft, open hole 80 to 160 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of 6 in. coupling, 24.63 ft above National Geodetic Vertical Datum of 1929. From August 2002 to May 2003, top of coupling was 24.66 ft above NGVD. From October 5, 1993 to July 2002, top of coupling was 24.63 ft above NGVD. Prior to October 1993, measuring point was top of casing, 24.88 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 20.3 ft above NGVD.

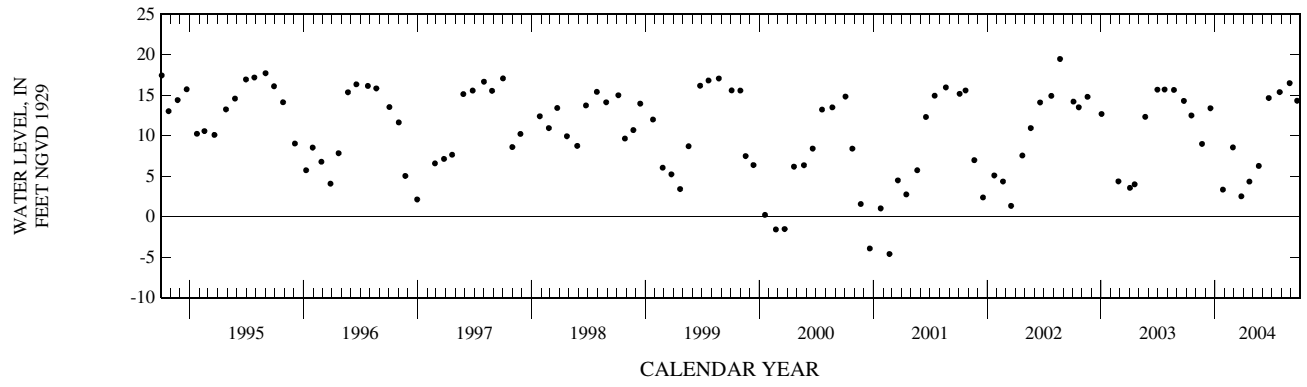
REMARKS.--Station repaired October 5, 1993, August 2002, May 2003. See DATUM.

PERIOD OF RECORD.--October 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.46 ft NGVD, Aug. 20, 2002; lowest, 7.11 ft below NGVD, Mar. 29, 1990.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
17...	1305	12.49	20...	1042	4.33
NOV			MAY		
20...	1225	8.98	20...	1021	6.27
DEC			JUN		
17...	1407	13.38	21...	1211	14.64
JAN			JUL		
26...	1514	3.34	26...	1435	15.37
FEB			AUG		
27...	1504	8.55	27...	1428	16.48
MAR			SEP		
25...	1509	2.52	20...	0912	14.31



COLLIER COUNTY—Continued

WELL NUMBER.--261740081235401. Local Number C 684.

LOCATION.--Lat 26°17'42", long 81°23'43", in NW $^1/_4$ NW $^1/_4$ sec.23, T.48 S., R.29 E., Hydrologic Unit 03090204, 25 ft south of County Road 858, 3.4 mi west of State Road 29, and 4.0 mi northwest of Sunniland.

AQUIFER.--Mid-Hawthorn aquifer of the Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 490 ft, cased to 440 ft, open hole 440 to 490 ft.

INSTRUMENTATION.--Monthly measurement with pressure gage.

DATUM.--Measuring point: Top of PVC casing, 22.37 ft above National Geodetic Vertical Datum of 1929. Prior to October 1982, measuring point was incorrectly considered to be 21.02 ft above NGVD. The figures of water level as elevation, in feet NGVD, prior to October 1982 are in error. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 19.5 ft above NGVD.

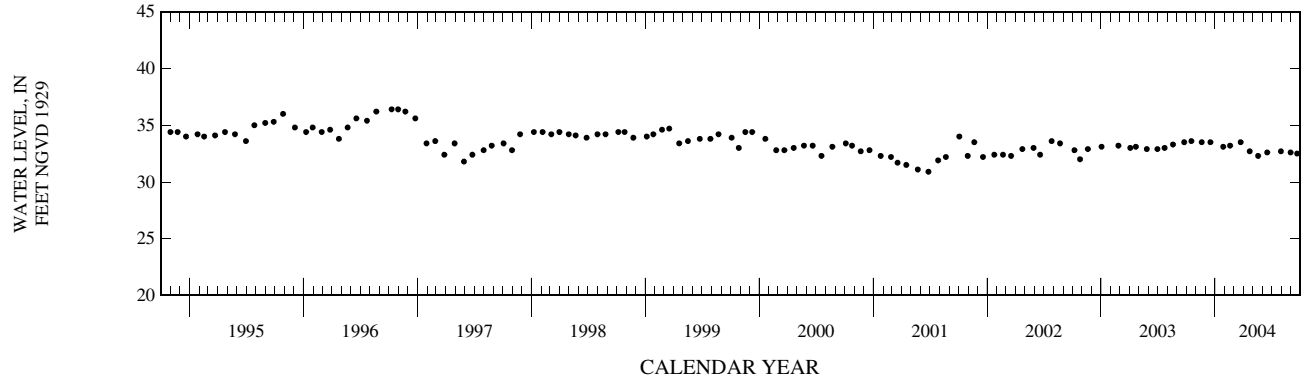
REMARKS.--The figures of water level as elevation, in feet NGVD, prior to October 1982 are in error. A correction of +1.4 ft has been applied to correct water-level data. Corrected records are in files of the U.S. Geological Survey. See DATUM. Records of water levels prior to October 1981 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--November 1980 to September 1993 (monthly), October 1993 to September 1994 (semiannual), October 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 36.4 ft NGVD, Oct. 9, 30, 1996; lowest, 30.9 ft NGVD, June 26, 2001.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
17...	1439	33.6	21...	1301	32.7
NOV			MAY		
19...	1202	33.5	18...	1444	32.3
DEC			JUN		
17...	1426	33.5	16...	1358	32.6
JAN			JUL		
27...	1422	33.1	30...	1354	32.7
FEB			AUG		
18...	1356	33.2	30...	1244	32.6
MAR			SEP		
23...	1600	33.5	20...	1141	32.5



COLLIER COUNTY—Continued

WELL NUMBER.--261740081235402. Local Number C 689.

LOCATION.--Lat 26°17'42", long 81°23'43", in NW $^1/_4$ NW $^1/_4$ sec.23, T. 48 S., R.29 E., Hydrologic Unit 03090204, 25 ft south of County Road 858, 3.4 mi west of State Road 29, and 4.5 mi northwest of Sunniland.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 265 ft, cased to 230 ft, open hole 230 to 265 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 23.37 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 19.3 ft above NGVD.

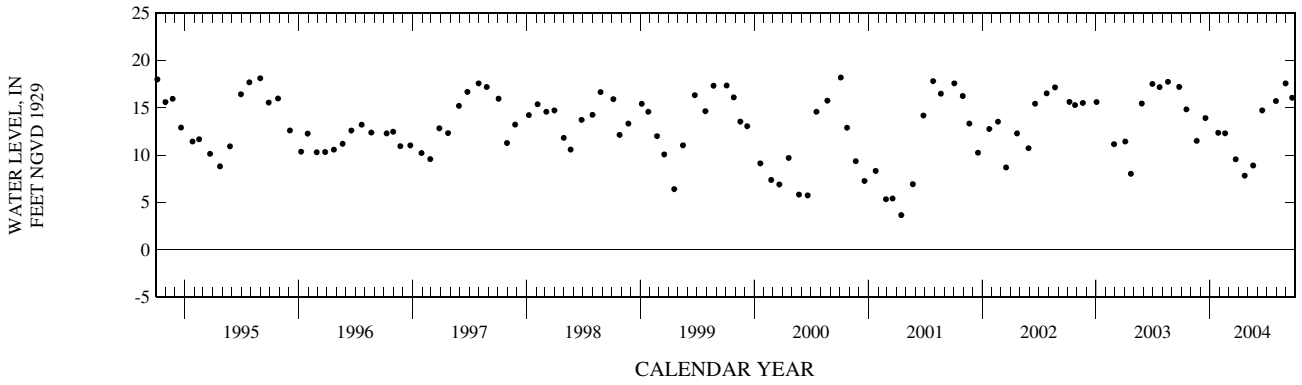
REMARKS.--Records of water levels prior to October 1983 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--October 1981 (intermittent), October 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.83 ft NGVD, Aug. 29, 1983; lowest, 0.38 ft below NGVD, Mar. 30, 1989.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
17...	1426	14.85	21...	1259	7.84
NOV			MAY		
19...	1205	11.52	18...	1448	8.92
DEC			JUN		
17...	1425	13.93	16...	1359	14.74
JAN			JUL		
27...	1426	12.37	30...	1352	15.73
FEB			AUG		
18...	1358	12.32	30...	1243	17.60
MAR			SEP		
23...	1602	9.57	20...	1137	16.08



COLLIER COUNTY—Continued

WELL NUMBER.--261740081235403. Local Number C 1073.

LOCATION.--Lat 26°17'42", long 81°23'43", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.23, T.48 S., R.29 E., Hydrologic Unit 03090204, 20 ft south of County Road 858, 3.4 mi west of State Road 29, 4.0 mi northwest of Sunniland.

AQUIFER.--Lower Tamiami aquifer of the Pliocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 160 ft, cased to 100 ft, screened 100 to 160 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 23.48 ft above National Geodetic Vertical Datum of 1929.

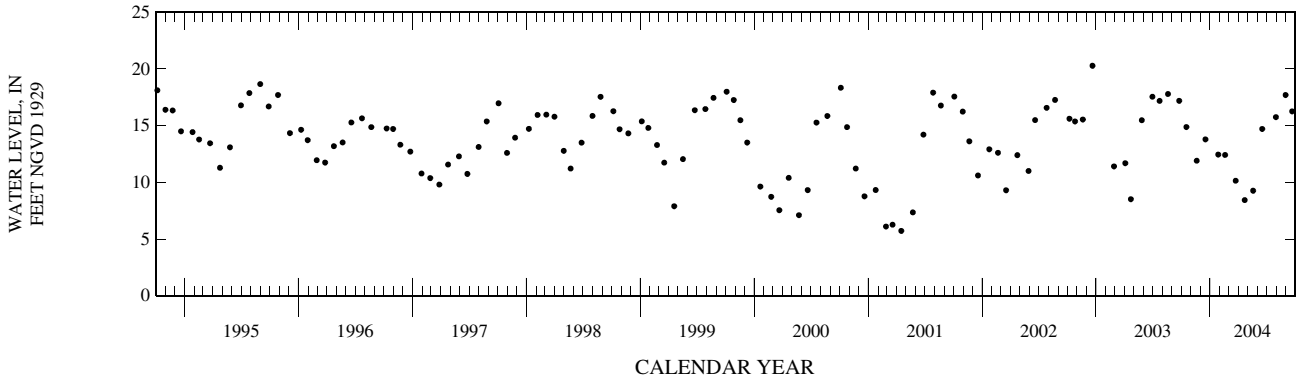
LAND-SURFACE DATUM.--Land surface is approximately 19.4 ft above NGVD.

PERIOD OF RECORD.--October 1986 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.27 ft NGVD, Dec. 20, 2002; lowest, 0.55 ft NGVD, Mar. 30, 1989.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
17...	1429	14.87	21...	1256	8.43
NOV			MAY		
19...	1153	11.90	18...	1450	9.26
DEC			JUN		
17...	1431	13.78	16...	1354	14.70
JAN			JUL		
27...	1430	12.44	30...	1350	15.74
FEB			AUG		
18...	1400	12.41	30...	1241	17.69
MAR			SEP		
23...	1404	10.14	20...	1136	16.25



COLLIER COUNTY—Continued

WELL NUMBER.--261741081235401. Local Number C 503.

LOCATION.--Lat 26°17'42", long 81°23'43", in NW $^1/_4$ NW $^1/_4$ sec.23, T.48 S., R.29 E., Hydrologic Unit 03090204, 25 ft south of County Road 858, 3.4 mi west of State Road 29 and 4.0 mi northwest of Sunniland.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 20.4 ft, cased to 8 ft, open hole 8 to 20.4 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of flange, 22.30 ft above National Geodetic Vertical Datum of 1929. From October 1979 to September 1982, measuring point was incorrectly considered to be 20.97 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 19.2 ft above NGVD.

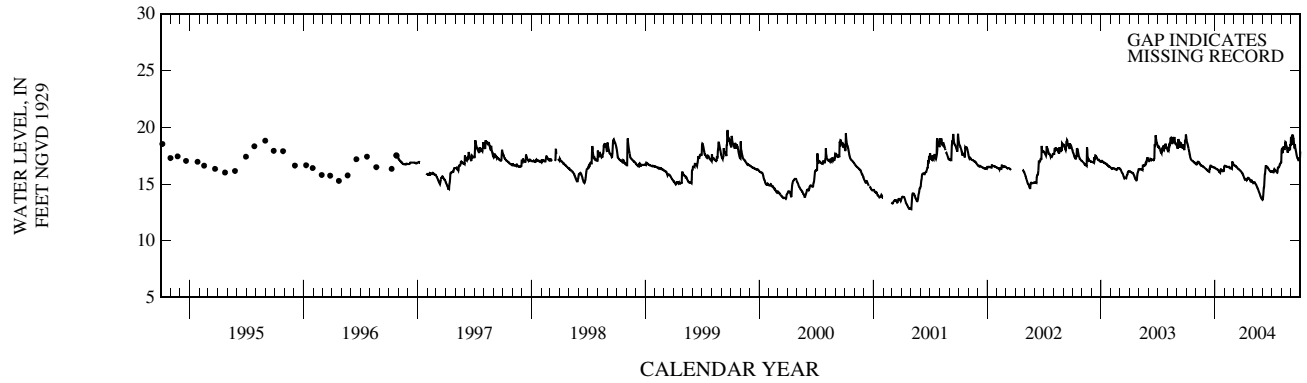
REMARKS.--Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey. The figures of water level as elevation, in feet NGVD, between October 1979 and September 1982 are in error. Corrected records are in files of the U.S. Geological Survey. See DATUM. Prior to October 1975, station record was reported under well number 261744081235401.

PERIOD OF RECORD.--January 1972 to October 1984 (daily), October 1984 to September 1996 (monthly), October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 19.67 ft NGVD, Sept. 20, 21, 1999; lowest, 12.78 ft NGVD, May 2, 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	18.49	16.80	16.27	16.32	16.53	16.60	15.42	15.17	14.66	16.02	18.25	19.35
10	17.85	16.92	16.12	16.26	16.50	16.50	15.36	15.00	16.23	16.26	17.99	18.56
15	17.19	16.71	16.35	16.06	16.51	16.32	15.53	14.70	16.53	16.12	18.44	18.03
20	17.03	16.59	16.56	16.28	16.38	16.21	15.44	14.35	16.36	16.43	17.90	17.33
25	16.91	16.50	16.49	16.13	16.93	16.06	15.24	13.94	16.13	16.57	18.03	17.10
EOM	16.76	16.38	16.43	16.58	16.69	15.78	15.15	13.63	16.10	16.90	19.15	17.87
MAX	18.91	16.96	16.61	16.58	16.93	16.66	15.73	15.17	16.57	16.90	19.15	19.35



COLLIER COUNTY—Continued

WELL NUMBER.--261802081354801. Local Number C 688.

LOCATION.--Lat 26°18'03", long 81°35'47", in SE $^1/_4$ NE $^1/_4$ sec.15, T.48 S., R.27 E., Hydrologic Unit 03090204, 50 ft south and 200 ft west of the intersection of 37th Avenue NW and County Road 846, 0.65 mi north of the intersection of County Road 858 and County Road 846, 14 mi southwest of the Immokalee Post Office.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 242 ft, cased to 220 ft, open hole 220 to 242 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of coupling, 18.48 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 15.6 ft above NGVD.

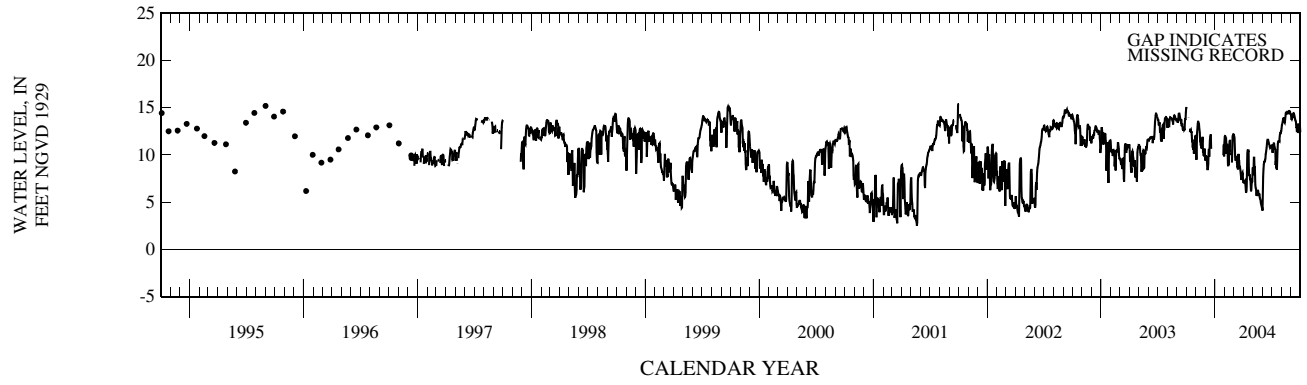
REMARKS.--Well is also used for salinity monitoring. Records of water levels prior to October 1983 are available in files of the U.S. Geological Survey.

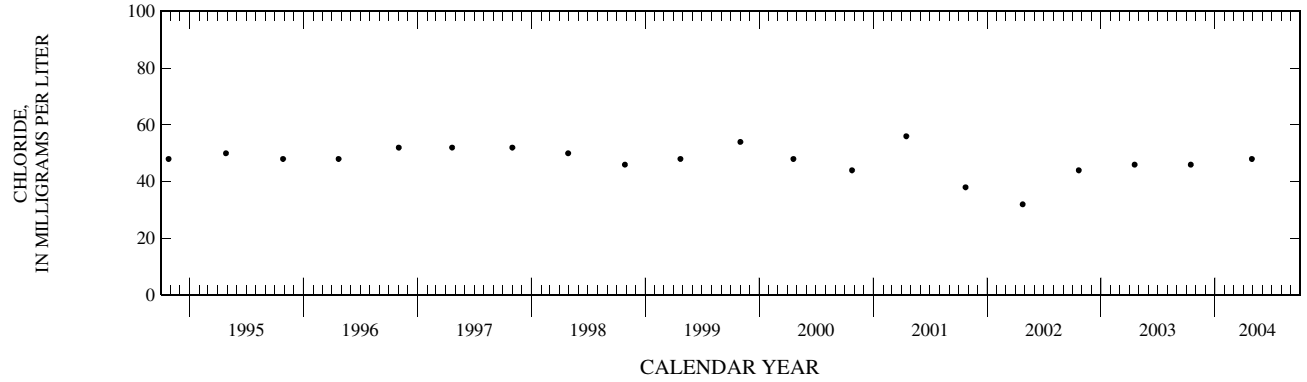
PERIOD OF RECORD.--October 1981 (intermittent), December 1982 to November 1996 (monthly), December 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.81 ft NGVD, June 29, 1982; lowest, 1.95 ft NGVD, Mar. 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	---	12.76	9.81	---	11.73	9.77	7.23	9.71	8.96	10.85	13.58	14.00
10	---	13.29	9.07	---	10.34	9.90	6.09	6.54	9.58	10.86	13.49	14.32
15	12.67	11.38	11.56	---	10.59	9.27	10.49	5.91	11.23	8.59	14.42	13.61
20	11.64	11.36	---	---	10.23	8.76	7.76	5.76	11.42	11.22	14.56	12.54
25	10.15	9.91	---	---	10.75	7.35	6.15	5.30	10.75	11.43	14.64	12.31
EOM	11.98	9.42	---	11.40	12.18	7.13	8.47	4.40	11.00	12.50	14.28	12.40
MAX	---	13.51	---	---	---	12.12	10.49	9.71	11.60	12.50	14.64	14.41





COLLIER COUNTY—Continued

WELL NUMBER.--261802081354802. Local Number C 1097.

LOCATION.--Lat 26°18'03", long 81°35'47", in SE $^1/_4$ SE $^1/_4$ sec.15, T.48 S., R.27 E., Hydrologic Unit 03090204, 50 ft south and 200 ft west of the intersection of 37th Avenue NW and County Road 846, 0.65 mi north of the intersection of County Road 858 and County Road 846, 14 mi southwest of the Immokalee Post Office.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 18 ft, screened 15 to 18 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of 4 in. PVC casing, 18.44 ft above National Geodetic Vertical Datum of 1929.

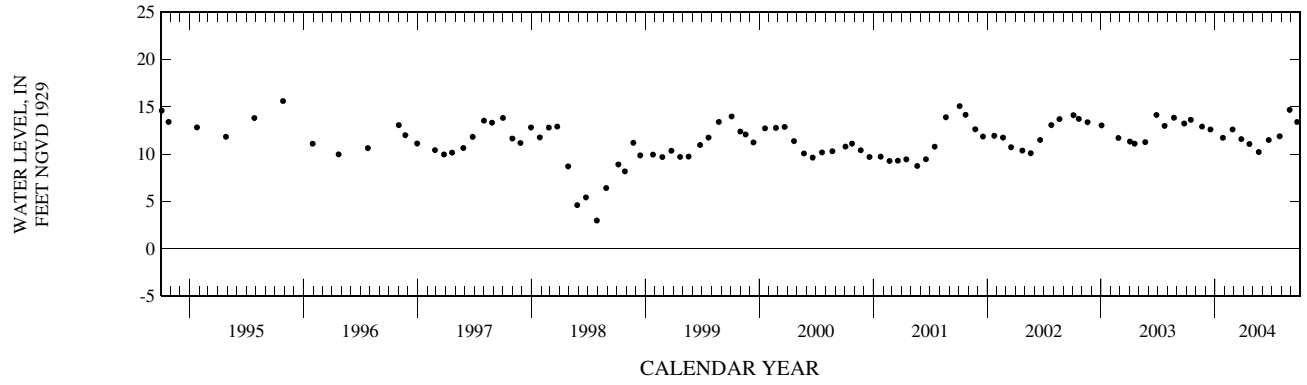
LAND-SURFACE DATUM.--Land surface is approximately 15.7 ft above NGVD.

PERIOD OF RECORD.--September 1993 to September 1994 (monthly), October 1994 to July 1996 (quarterly), November 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.63 ft NGVD, Oct. 27, 1995; lowest, 2.99 ft NGVD, July 29, 1998.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
15...	1301	13.64	20...	1451	11.08
NOV			MAY		
20...	0905	12.92	20...	1409	10.23
DEC			JUN		
17...	1204	12.62	21...	1102	11.50
JAN			JUL		
26...	1121	11.74	26...	1012	11.90
FEB			AUG		
26...	1032	12.62	27...	1252	14.69
MAR			SEP		
25...	1318	11.60	20...	0833	13.41



COLLIER COUNTY—Continued

WELL NUMBER.--261805081473302. Local Number C 1083.

LOCATION.--Lat 26°18'56", long 81°47'19", in NW ¼ NE ¼ NE ¼ sec.10, T.48 S., R.25 E., Hydrologic Unit 03090204, 10 ft north of Sun Century Road, 230 ft east of old U.S. Highway 41 (State Road 887) and 2.5 mi south of Bonita Springs.

AQUIFER.--Lower Tamiami aquifer of the Pliocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 74 ft, cased to 58 ft, open hole 58 to 74 ft.

INSTRUMENTATION.--Electronic data logger, with pressure transducer.

DATUM.--Measuring point: Top of base, 18.26 ft above National Geodetic Vertical Datum of 1929. From December 2002 to January 2004, top of base was 15.78 ft above NGVD. From February 1992 to November 2002, top of base was considered to be 15.81 ft above NGVD. Prior to February 1992, measuring point was top of casing, 15.68 ft NGVD. (Corrected). See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 14.3 ft above NGVD. (Corrected).

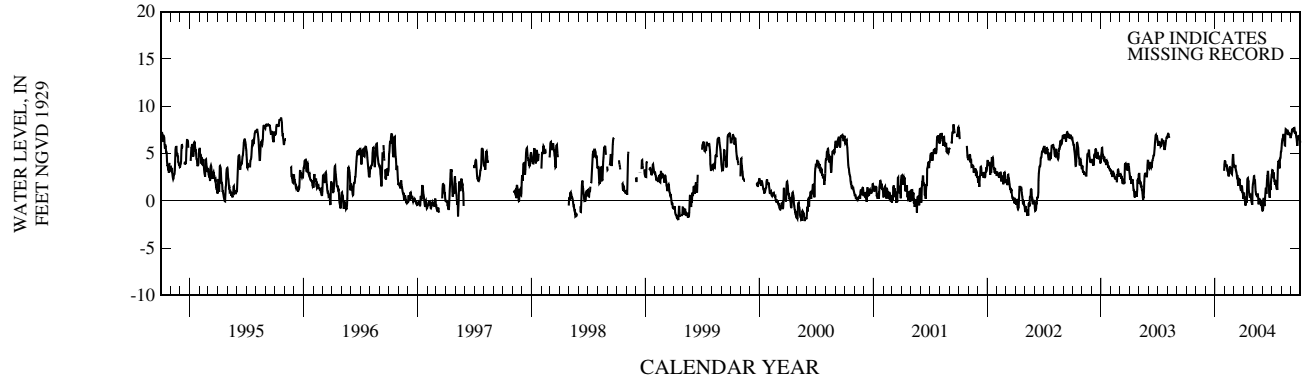
REMARKS.--Well is also used for salinity monitoring. Most of the open-hole portion of this well has collapsed or become obstructed. Chloride samples are being collected from a depth of 62 ft. The figures of water level as elevation, in feet NGVD, from April 1992 to September 2002 are considered to be in error, based on resurvey to benchmark in December 2002. A -0.03 ft correction is required to correct water level data from April 1992 to September 2002. Well was damaged in August 2003, reconstructed January 2004.

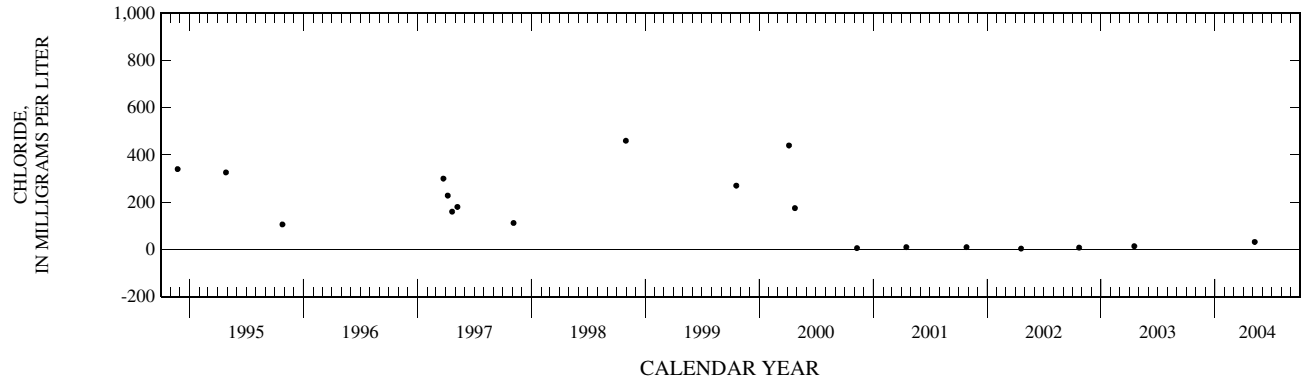
PERIOD OF RECORD.--June 1987 to March 1991 (intermittent), April 1992 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.72 ft NGVD, Oct. 20, 21, 1995; lowest water level measured, 4.27 ft below NGVD, Apr. 13, 1989.

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	---	---	---	---	3.61	3.71	0.19	2.60	0.22	2.41	6.59	7.58
10	---	---	---	---	3.14	2.94	0.34	1.01	0.78	2.13	6.24	7.68
15	---	---	---	---	3.33	1.62	2.41	0.68	2.18	1.54	7.56	7.23
20	---	---	---	---	3.37	2.20	0.60	-0.36	2.26	3.54	7.36	5.82
25	---	---	---	---	3.26	1.12	0.20	-0.02	1.40	3.43	7.05	6.87
EOM	---	---	---	3.86	4.13	0.44	1.43	-0.95	2.79	5.22	6.92	6.16
MAX	---	---	---	---	4.86	3.81	2.41	2.60	3.08	5.22	7.58	7.69





COLLIER COUNTY—Continued

WELL NUMBER.--261823081171901. Local Number C 1071.

LOCATION.--Lat 26°18'11", long 81°18'24", in NE ¼ NW ¼ SE ¼ sec.15, T.48 S., R.30 E., Hydrologic Unit 03090204, 15 ft south of County Road 858, 2.2 mi east of State Road 29, 11.0 mi southeast of Immokalee.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 35 ft, cased to 20 ft, screened 20 to 35 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 22.98 ft above National Geodetic Vertical Datum of 1929.

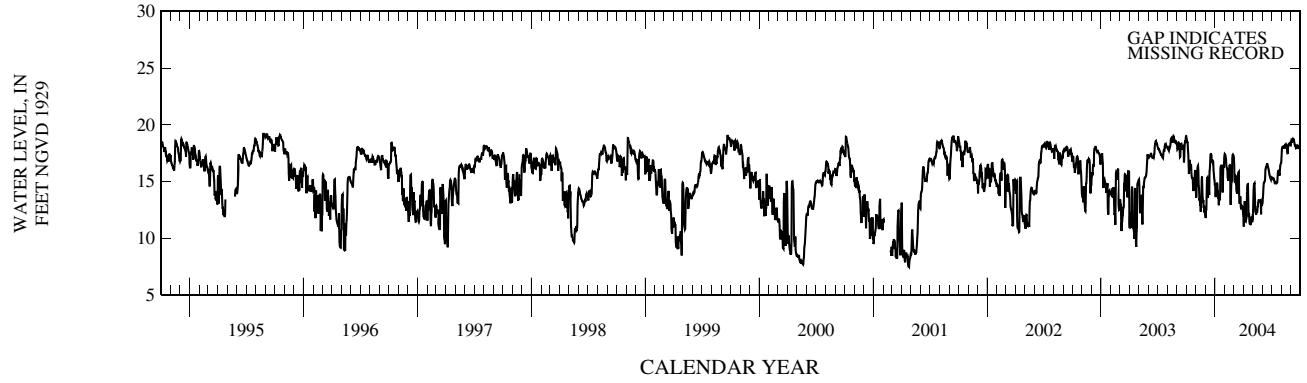
LAND-SURFACE DATUM.--Land surface is approximately 19.6 ft above NGVD.

PERIOD OF RECORD.--November 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 19.21 ft NGVD, Aug. 24, 25, 27, 1995; lowest, 6.83 ft NGVD, Apr. 12, 1989.

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	18.44	16.09	13.95	14.48	16.96	14.93	13.29	14.82	14.85	15.26	18.08	18.69
10	16.14	14.46	14.13	14.23	15.36	14.10	11.74	12.29	16.03	14.91	17.90	18.57
15	16.26	12.99	16.13	13.87	16.38	15.59	14.77	12.27	16.55	14.83	18.22	18.09
20	15.28	15.44	17.30	16.42	12.95	13.08	11.50	13.36	16.14	15.81	17.50	18.15
25	15.02	12.70	16.62	14.05	17.04	12.65	11.29	13.33	15.42	15.60	18.35	17.99
EOM	14.49	12.00	14.68	17.32	17.29	12.07	11.89	12.97	15.38	16.66	18.47	18.46
MAX	18.81	16.38	17.43	17.32	17.43	17.10	14.77	14.87	16.56	16.66	18.47	18.76



COLLIER COUNTY—Continued

WELL NUMBER.--261823081171902. Local Number C 1072.

LOCATION.--Lat 26°18'11", Long 81°18'24", in NE ¼ NW ¼ SE ¼ sec.15, T.48 S., R.30 E., Hydrologic Unit 03090204, 15 ft south of County Road 858, 2.2 mi east of State Road 29, 11.0 mi southeast of Immokalee.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 260 ft, cased to 140 ft, screened from 140 to 220 ft with 0.02 screen.

INSTRUMENTATION.-- Electronic data logger with pressure transducer.

DATUM.--Measuring point: Top of base, 23.03 ft above National Geodetic Vertical Datum of 1929.

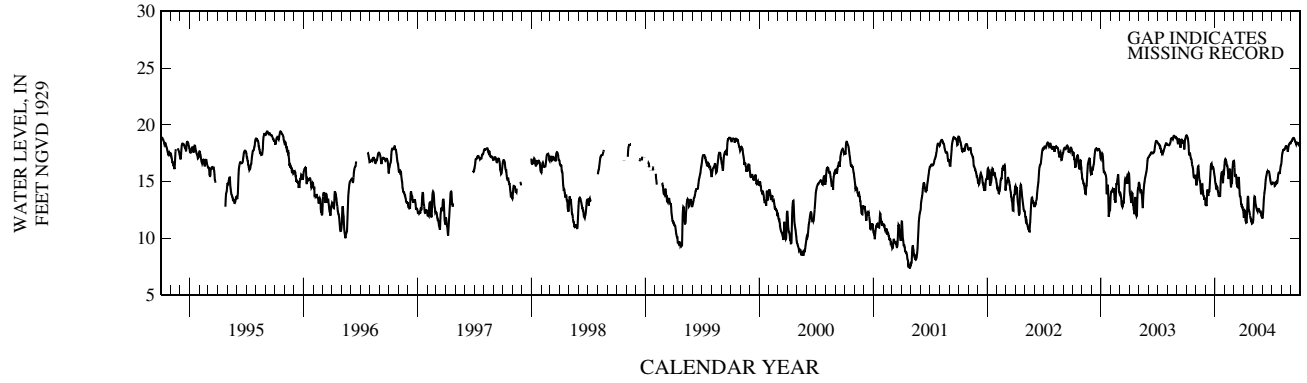
LAND-SURFACE DATUM.--Land surface is approximately 19.2 ft above NGVD.

PERIOD OF RECORD.--November 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 20.41 ft NGVD, Nov. 27, 1987; lowest, 7.40 ft NGVD, Apr. 28, 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	18.90	15.71	12.85	14.43	16.87	15.50	12.44	13.50	13.38	14.88	17.67	18.72
10	17.32	15.70	13.73	14.18	16.22	14.83	11.43	12.99	14.83	14.63	17.81	18.83
15	17.05	14.67	15.02	13.75	15.62	15.00	13.73	12.45	15.80	14.85	18.11	18.45
20	16.42	14.74	16.58	15.46	14.91	13.73	12.36	12.59	15.93	15.30	17.86	18.41
25	15.36	13.74	16.31	14.97	15.58	13.02	11.58	12.28	15.29	15.68	18.28	18.26
EOM	15.40	13.41	15.35	16.42	16.81	12.49	11.36	11.83	14.83	16.51	18.46	18.43
MAX	19.07	16.37	16.58	16.42	16.98	16.82	13.73	13.70	15.93	16.51	18.46	18.84



COLLIER COUNTY—Continued

WELL NUMBER.--262121081355501. Local Number C 978.

LOCATION.--Lat 26°21'23", long 81°35'59", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.27, T.47 S., R.27 E., Hydrologic Unit 03090204, 300 ft south of C 3rd Avenue South (Platt Road), 0.25 mi west of County Road 846 and 12 mi southwest of Immokalee.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation water-table well, diameter 6 in., depth 40 ft, cased to 15 ft, open hole 15 to 40 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of flange, 22.92 ft above National Geodetic Vertical Datum of 1929. Prior to October 24, 1996, measuring point was top of casing, 22.86 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 19.1 ft above NGVD.

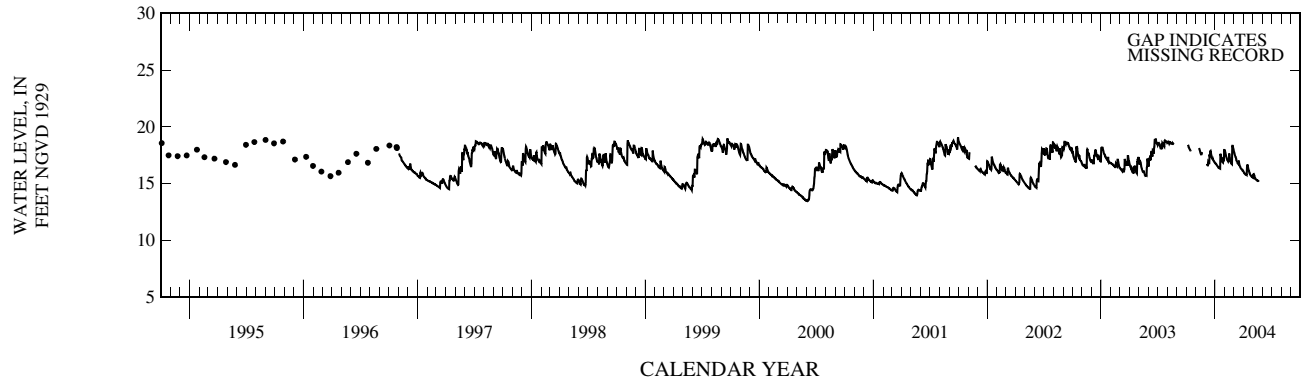
REMARKS.--Shelter for data logger installed October 24, 1996, well discontinued May 2004. See DATUM.

PERIOD OF RECORD.--October 1984 to October 1996 (monthly), October 1996 to May 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.07 ft NGVD, Oct. 4, 1993; lowest daily maximum water level, 13.45 ft NGVD, June 3, 2000.

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	---	---	16.74	16.69	17.45	17.46	15.88	15.77	---	---	---	---
10	18.12	---	16.95	16.52	17.04	17.03	15.79	15.39	---	---	---	---
15	17.84	17.73	17.39	16.35	17.66	16.74	16.46	15.27	---	---	---	---
20	---	17.62	17.43	17.38	16.90	16.56	15.97	15.18	---	---	---	---
25	---	---	17.14	16.88	18.33	16.29	15.68	---	---	---	---	---
EOM	---	---	16.85	17.96	17.98	16.12	15.63	---	---	---	---	---
MAX	---	---	---	17.96	18.33	17.88	16.62	---	---	---	---	---



COLLIER COUNTY—Continued

WELL NUMBER.--262121081355502. Local Number C 963.

LOCATION.--Lat 26°21'23", long 81°35'59", in SE $^1/_4$ SW $^1/_4$ sec.27, T.47 S., R.27 E., Hydrologic Unit 03090204, 300 ft south of C 3rd Avenue South (Platt Rd.), 0.25 mi west of County Road 846 and 12 mi southwest of Immokalee.

AQUIFER.--Mid-Hawthorn aquifer of the Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 340 ft, cased to 310 ft, open hole 310 to 340 ft.

INSTRUMENTATION.--Monthly measurement with pressure gage.

DATUM.--Measuring point: Top of 4 in. coupling, 19.58 ft above National Geodetic Vertical Datum of 1929. Prior to February 2004, measuring point was top of 4 in. coupling 19.57 ft above NGVD. Prior to August 2000, measuring point was top of gate valve, 20.97 ft above NGVD. Prior to October 1992, top of gate valve was incorrectly considered to be 24.96 ft above NGVD. The figures of water level as elevation, in feet NGVD, prior to October 1992 are in error. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 19.1 ft above NGVD.

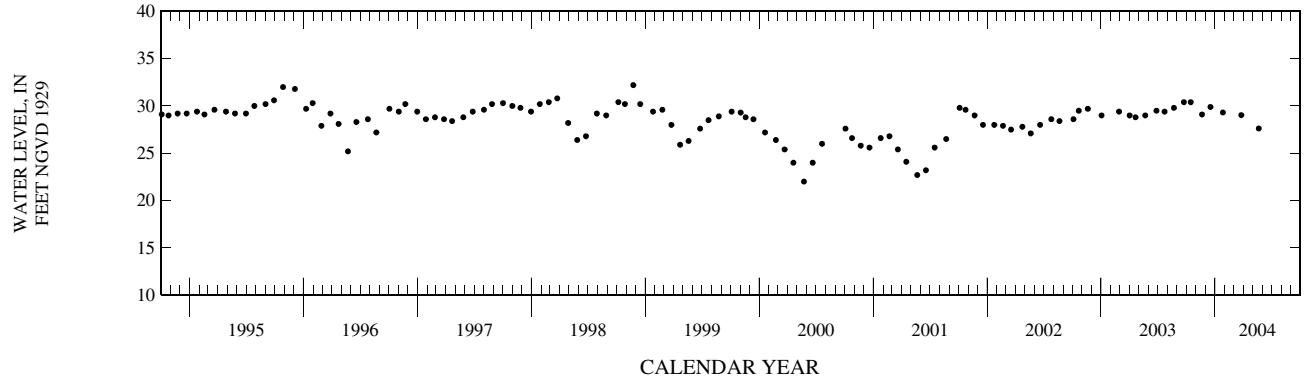
REMARKS.--Well is also used for salinity monitoring. This well is open to the aquifer for 30 ft. The exact depth from which the chloride-containing water is emanating cannot be further delineated. The figures of water level as elevation, in feet NGVD, prior to October 1992 are in error. A -4.00 ft correction has been applied to correct water-level data. Corrected records are in the files of the U.S. Geological Survey. Well was damaged in August 2000 and repaired September 2000. Well was damaged and repaired in February 2004. Well was discontinued after May 2004. (Corrected). See DATUM.

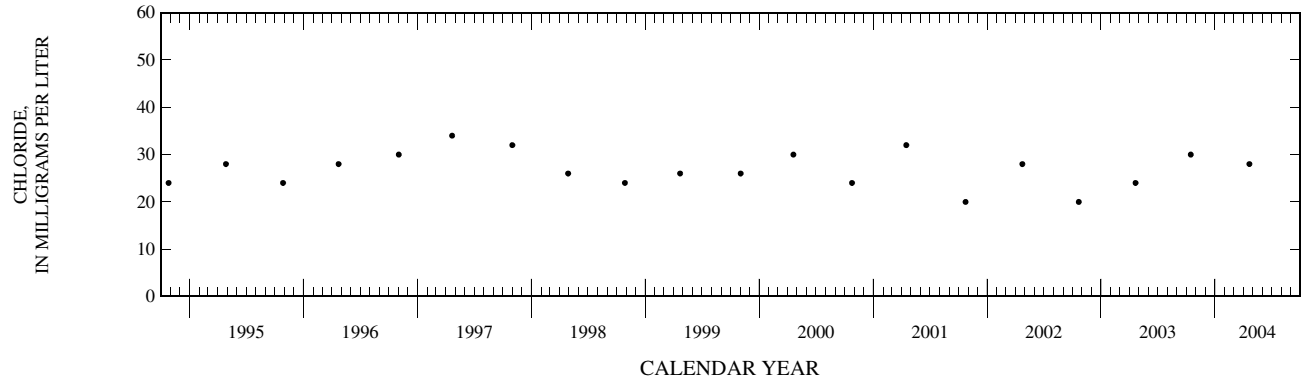
PERIOD OF RECORD.--October 1984 to May 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.2 ft NGVD, Nov. 23, 1998; lowest, 15.28 ft NGVD, Feb. 22, 1989.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
15...	1036	30.4	410	30
NOV				
20...	0951	29.1	--	--
DEC				
17...	1234	29.9	--	--
JAN				
26...	1159	29.3	--	--
MAR				
25...	1344	29.0	--	--
APR				
20...	1430	--	415	28
MAY				
20...	1536	27.6	--	--





COLLIER COUNTY—Continued

WELL NUMBER.--262121081355503. Local Number C 979.

LOCATION.--Lat 26°21'23", long 81°35'59", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.27, T.47 S., R.27 E., Hydrologic Unit 03090204, 300 ft south of C 3rd Avenue South (Platt Road), 0.25 mi west of County Road 846 and 12 mi southwest of Immokalee.

AQUIFER.--Lower Tamiami aquifer of the Pliocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 113 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 18.59 ft above National Geodetic Vertical Datum of 1929. Prior to March 16, 2000, top of casing was 22.30 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 19.1 ft above NGVD.

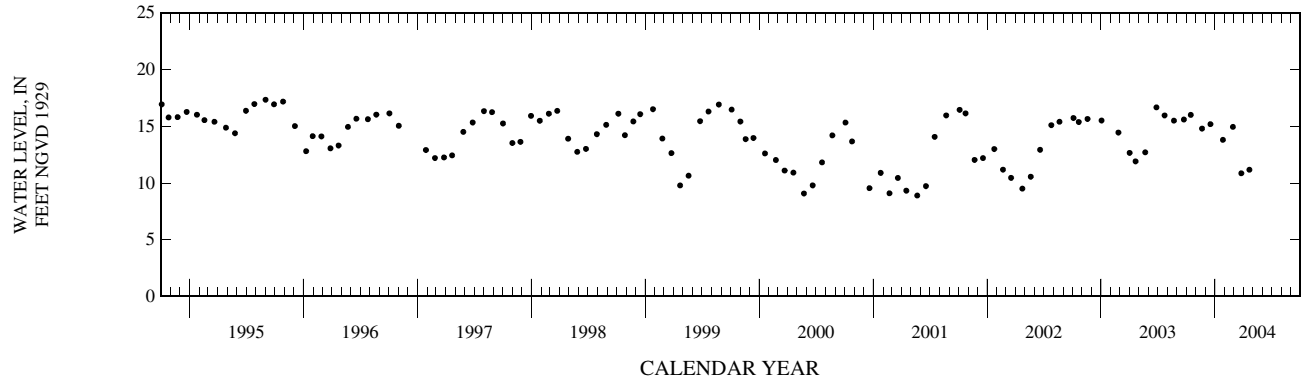
REMARKS.--Casing cut for meter box installation in March 2000. See DATUM. Well also used for salinity monitoring October 1984 to April 1993. Well discontinued in May 2004.

PERIOD OF RECORD.--October 1984 to May 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.79 ft NGVD, July 26, 1988; lowest, 6.93 ft NGVD, Mar. 29, 1990.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			FEB		
15...	1416	16.00	27...	0953	14.94
NOV			MAR		
20...	0954	14.79	25...	1350	10.85
DEC			APR		
17...	1238	15.18	20...	1430	11.16
JAN					
26...	1201	13.80			



COLLIER COUNTY—Continued

WELL NUMBER.--262136081204201. Local Number C 966.

LOCATION.--Lat 26°21'38", long 81°20'41", in NE $^1/_4$ SW $^1/_4$ sec.29, T.47 S., R.30 E., Hydrologic Unit 03090204, 98 ft north of Motorola Road, 55 ft west of State Road 29, 4.0 mi north of County Road 858, 5.7 mi south of State Road 29A and 6.5 mi south of Immokalee.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 40 ft, cased to 30 ft, open hole 30 to 40 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 22.31 ft above National Geodetic Vertical Datum of 1929. Prior to April 1998, top of casing was 27.55 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 21.3 ft above NGVD.

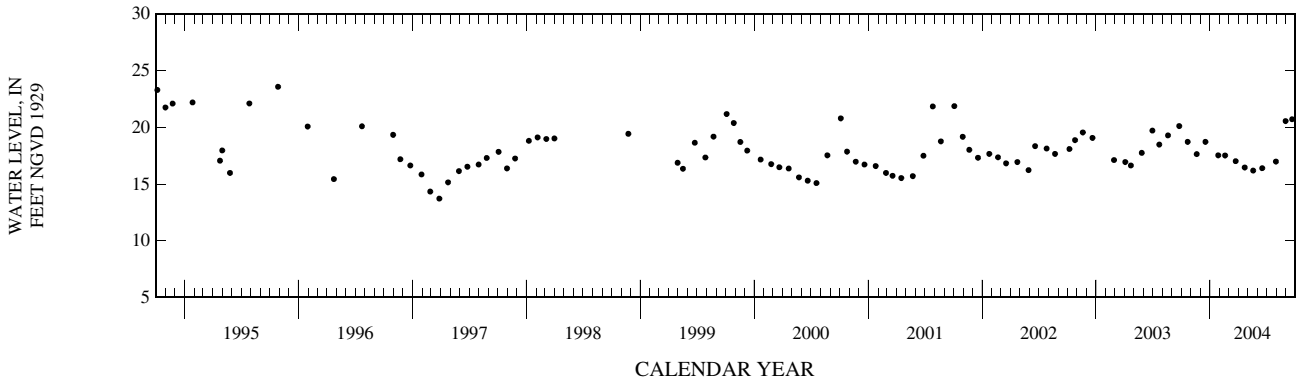
REMARKS.--Station reconstructed on April 30, 1999. See DATUM.

PERIOD OF RECORD.--October 1984 to September 1994 (monthly), October 1994 to September 1996 (quarterly), October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.56 ft NGVD, Oct. 27, 1995; lowest, 13.71 ft NGVD, Mar. 27, 1997.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
21...	1131	18.71	21...	1228	16.45
NOV			MAY		
19...	1224	17.63	18...	1425	16.18
DEC			JUN		
17...	1445	18.71	16...	1334	16.39
JAN			JUL		
27...	1324	17.52	30...	1320	16.97
FEB			AUG		
18...	1336	17.51	30...	1141	20.54
MAR			SEP		
23...	1534	17.01	20...	1110	20.70



COLLIER COUNTY—Continued

WELL NUMBER.--262136081204202. Local Number C 965.

LOCATION.--Lat 26°21'38", long 81°20'41", in NE $^1/_4$ SW $^1/_4$ sec.29, T.47 S., R.30 E., Hydrologic Unit 03090204, 98 ft north of Motorola Road, 55 ft west of State Road 29, 4.0 mi north of County Road 858, 5.7 mi south of State Road 29A and 6.5 mi south of Immokalee.

AQUIFER.--Mid-Hawthorn aquifer of the Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 2 in., depth 460 ft, cased to 438 ft, open hole 438 to 460 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of 6 in. casing, 23.41 ft above National Geodetic Vertical Datum of 1929. Prior to April 30, 1999, top of casing was 26.96 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 21.4 ft above NGVD.

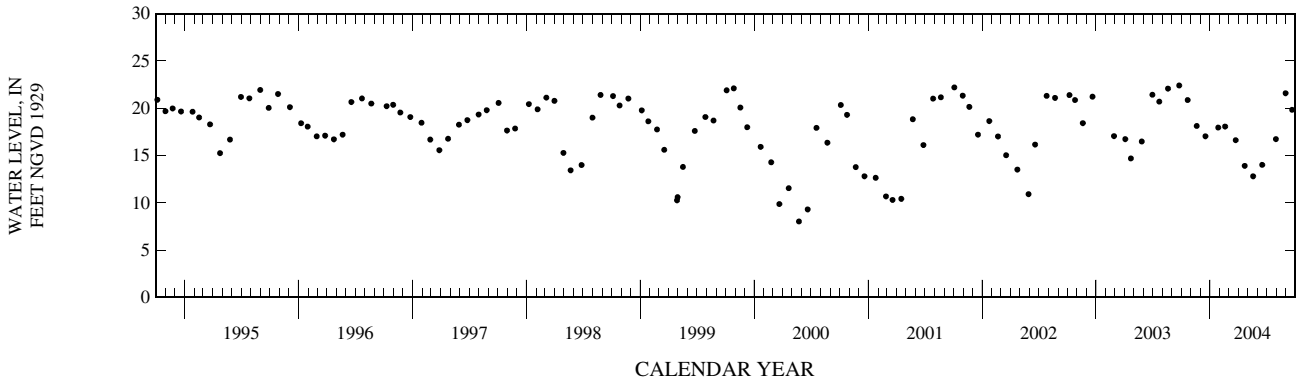
REMARKS.--Station reconstructed because of road construction on April 30, 1999. See DATUM.

PERIOD OF RECORD.--October 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.41 ft NGVD, Sept. 24, 2003; lowest, 8.03 ft NGVD, May 23, 2000.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
21...	1133	20.87	21...	1229	13.91
NOV			MAY		
19...	1227	18.13	18...	1427	12.81
DEC			JUN		
17...	1444	17.04	16...	1330	14.02
JAN			JUL		
27...	1325	17.96	30...	1322	16.74
FEB			AUG		
18...	1338	18.07	30...	1139	21.59
MAR			SEP		
23...	1535	16.63	20...	1119	19.84



COLLIER COUNTY—Continued

WELL NUMBER.--262158081283401. Local Number C 981.

LOCATION.--Lat 26°22'00", long 81°28'36", in SE ¼ SW ¼ sec.24, T.47 S., R.28 E., Hydrologic Unit 03090204, 30 ft north of County Road 846, 2.8 mi east of Oil Grade Road and 4.5 mi southwest of Immokalee.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 60 ft, cased to 40 ft, open hole 40 to 60 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of shelf, 24.84 ft above National Geodetic Vertical Datum of 1929. From October 1, 2001 to September 30, 2002, top of shelf was incorrectly considered to be 24.87 ft above NGVD. From October 24, 1996 to October 2001, top of shelf was incorrectly considered to be 18.79 ft above NGVD. From October 1994 to October 24, 1996, measuring point was top of casing, incorrectly considered to be 20.24 ft above NGVD. Prior to October 1994, top of casing was incorrectly considered to be 20.34 ft above NGVD. The figures of water level as elevation, in feet NGVD, prior to October 2002 are in error. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 21.3 ft above NGVD.

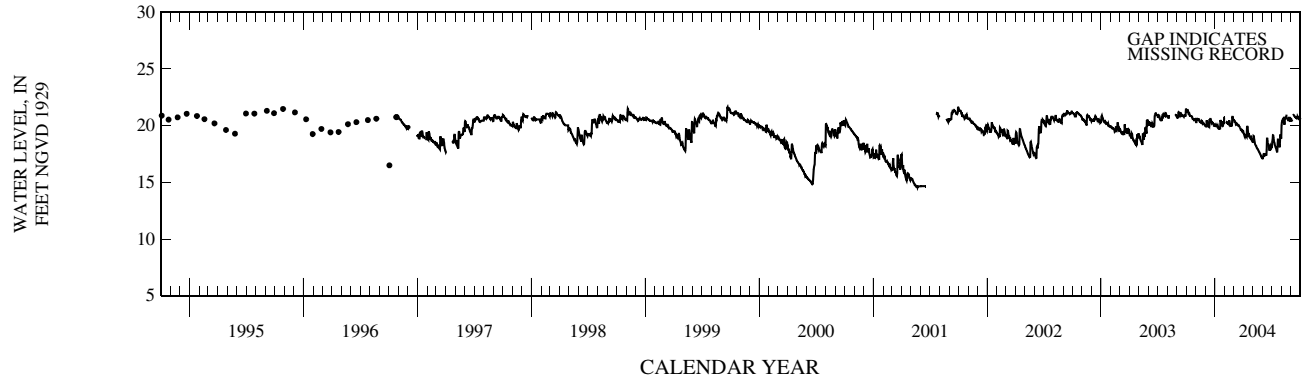
REMARKS.--The figures of water level as elevation, in feet NGVD, prior to October 2001, are in error. A +6.05 ft correction has been applied to correct water-level data prior to October 2001. A correction of -0.03 ft has been applied to water-level data from October 2001 to September 2002. Corrected records are in files of the U.S. Geological Survey. See DATUM.

PERIOD OF RECORD.--October 1984 to September 1996 (monthly), October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 21.65 ft NGVD, Sept. 29, 2001 (Corrected); lowest, 14.53 ft NGVD, May 22, 2001 (Corrected).

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	21.26	20.59	20.46	20.03	20.33	20.32	19.02	18.79	17.49	19.11	20.55	---
10	21.06	20.55	20.16	19.95	20.18	20.20	19.05	18.27	17.38	18.35	20.08	20.89
15	20.84	20.30	20.46	19.72	20.45	20.03	19.49	17.97	18.85	17.93	20.64	20.71
20	20.61	20.39	20.29	20.23	20.06	19.87	19.04	17.73	18.23	18.77	20.62	20.64
25	20.50	20.20	20.20	19.96	20.77	19.63	19.02	17.45	18.16	18.16	20.68	20.60
EOM	20.40	20.00	20.00	20.68	20.50	19.52	18.70	17.11	18.10	18.85	20.59	20.68
MAX	21.40	20.59	20.58	20.68	---	20.49	19.96	19.07	18.85	19.16	---	---



COLLIER COUNTY—Continued

WELL NUMBER.--262158081283402. Local Number C 983.

LOCATION.--Lat 26°22'00", long 81°28'36", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.24, T.47 S., R.28 E., Hydrologic Unit 03090204, 30 ft north of County Road 846, 2.8 mi east of Oil Grade Road and 4.5 mi southwest of Immokalee.

AQUIFER.--Mid-hawthorn aquifer of the Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 2 in., depth 520 ft, cased to 480 ft, open hole 480 to 520 ft.

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

DATUM.--Measuring point: "X" on top of carriage bolt, 24.61 ft above National Geodetic Vertical Datum of 1929. From October 1984 to September 18, 2002, measuring point was "X" on top of 2 in. reducer, 21.04 ft above NGVD. From October 1, 1986 to October 2001, top of reducer was incorrectly considered to be 16.70 ft above NGVD. Prior to October 1, 1986, top of reducer was considered to be 20.68 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 21.0 ft above NGVD.

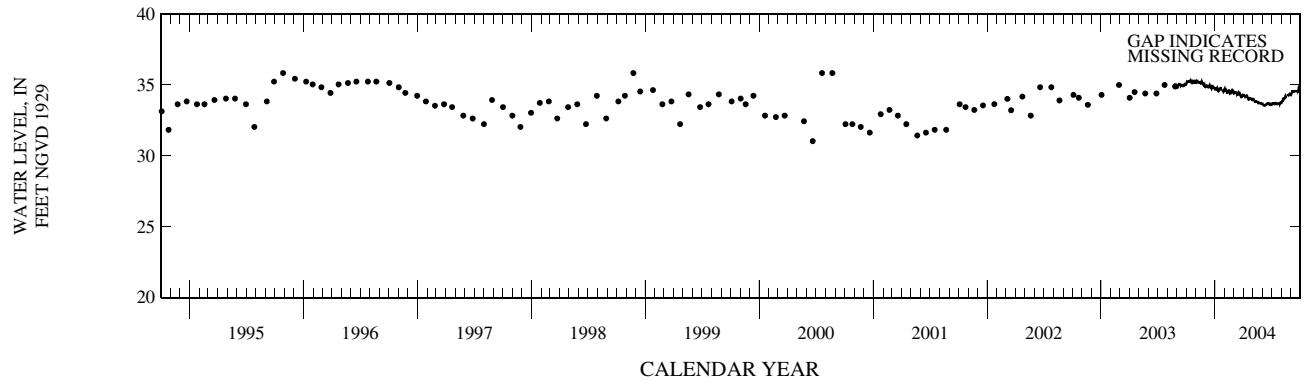
REMARKS.--The figures of water level as elevation, in feet NGVD, prior to October 2001 are in error. A +4.34 ft correction has been applied to correct water-level data from October 1986 to September 2001. A +0.36 ft correction has been applied to correct water-level data prior to October 1986. Corrected records are in files of the U.S. Geological Survey. Extremes for the period of record have been adjusted to present datum. See DATUM.

PERIOD OF RECORD.--October 1984 to August 2003 (monthly), September 2003 to current.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 36.1 ft NGVD, Nov. 25, 1987; lowest, 20.56 ft NGVD, May 28, 1985.

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	35.21	35.18	34.97	34.79	34.57	34.46	34.21	33.92	33.59	33.66	33.97	---
10	35.28	35.19	35.00	34.73	34.54	34.43	34.20	33.82	33.60	33.64	34.03	34.54
15	35.22	35.14	34.83	34.68	34.62	34.41	34.06	33.83	33.65	33.70	34.13	34.56
20	35.21	35.19	34.77	34.68	34.52	34.29	34.08	33.72	33.72	33.66	34.24	34.56
25	35.10	35.00	34.82	34.60	34.66	34.14	34.01	33.71	33.63	33.65	34.30	34.81
EOM	35.14	34.85	34.70	34.70	34.41	34.30	34.00	33.70	33.64	33.72	34.28	34.58
MAX	35.35	35.27	35.00	---	34.74	34.49	34.28	34.02	33.72	33.78	---	---



COLLIER COUNTY—Continued

WELL NUMBER.--262158081283403. Local Number C 982.

LOCATION.--Lat 26°22'00", long 81°28'36", in SE ¼ SW ¼ sec.24, T.47 S., R.28 E., Hydrologic Unit 03090204, 30 ft north of County Road 846, 2.8 mi east of Oil Grade Road and 4.5 mi southwest of Immokalee.

AQUIFER.--Lower Tamiami aquifer of the Pliocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 160 ft, cased to 150 ft, open hole 150 to 160 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of flange, 25.41 ft above National Geodetic Vertical Datum of 1929. From October 2001 to September 18, 2002, measuring point was top of casing, 26.32 ft above NGVD. From March 1987 to October 2001, top of casing was incorrectly considered to be 20.25 ft above NGVD. Prior to March 1987, top of casing was 26.64 ft above NGVD, but incorrectly considered to be 20.57 ft above NGVD. The figures of water level as elevation, in feet NGVD, prior to October 2001 are in error. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 21.6 ft above NGVD.

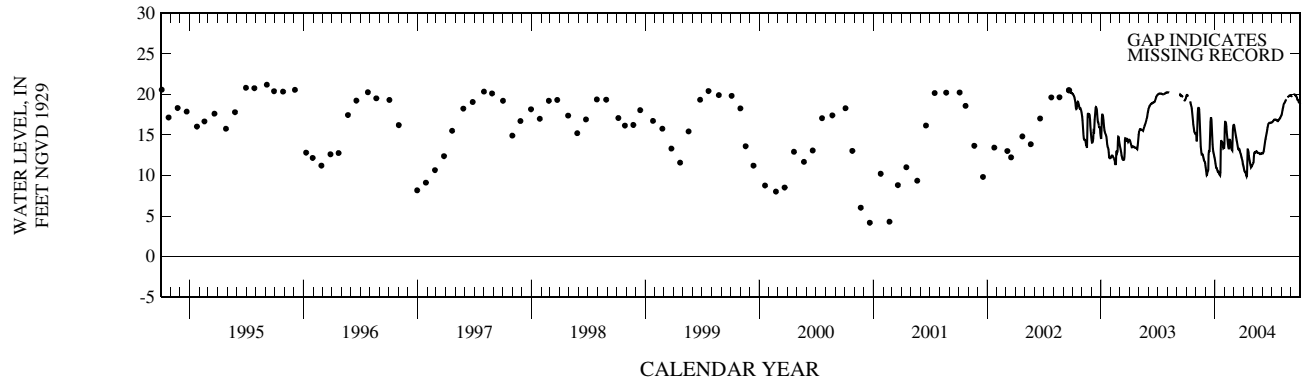
REMARKS.--The figures of water levels as elevation, in feet NGVD, prior to October 1, 2001, are in error. A +6.07 ft correction has been applied to correct water-level data prior to October 2001. Corrected records are in the files of the U.S. Geological Survey. Extremes for period of record have been adjusted to present datum. See DATUM.

PERIOD OF RECORD.--October 1984 to August 2002 (monthly), September 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.27 ft NGVD, July 24, 1991; lowest, 0.84 ft below NGVD, Mar. 31, 1989.

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	19.90	16.52	10.06	10.92	16.44	15.49	10.49	12.73	13.05	16.72	18.26	---
10	---	18.28	10.73	10.44	14.17	14.37	9.99	12.90	14.43	16.90	18.95	20.00
15	18.77	14.18	14.70	10.14	13.45	13.26	13.21	12.90	15.47	16.87	19.33	19.84
20	17.46	12.63	16.87	14.24	13.80	13.06	12.00	12.77	16.34	16.70	19.66	19.43
25	15.79	12.10	13.29	13.92	13.10	12.31	11.01	12.65	16.50	16.97	19.83	19.11
EOM	15.25	11.48	12.02	13.90	16.21	11.30	11.35	12.71	16.53	17.35	19.84	18.82
MAX	---	18.35	17.08	14.26	16.63	16.23	13.21	12.99	16.53	17.35	---	---



COLLIER COUNTY—Continued

WELL NUMBER.--262158081283404. Local Number C 1079.

LOCATION.--Lat 26°22'00", long 81°28'36", in SW ¼ SE ¼ SW ¼ sec.24, T.47 S., R.28 E., Hydrologic Unit 03090204, 30 ft north of County Road 846, 2.8 mi east of Oil Grade Road and 4.5 mi southwest of Immokalee.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 390 ft, cased to 298 ft, 92 ft of open hole.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 22.74 ft above National Geodetic Vertical Datum of 1929. From December 1986 to September 2001, top of base was incorrectly considered to be 16.67 ft above NGVD. Prior to December 1986, measuring point was top of casing, 21.41 ft above NGVD, but incorrectly considered to be 15.34 ft above NGVD. The figures of water level as elevation, in feet NGVD, prior to October 2001 are in error. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 21.1 ft above NGVD.

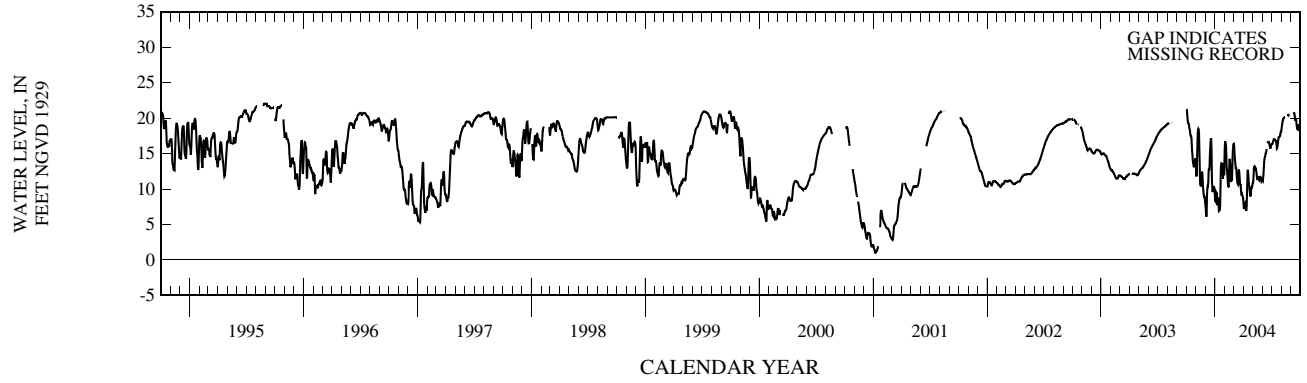
REMARKS.--The figures of water levels as elevation, in feet NGVD, prior to October 2001, are in error. A +6.07 ft correction has been applied to correct water level data from October 1985 to September 2001. Corrected records are available in the files of the U.S. Geological Survey. See DATUM. Records of water levels prior to December 1986 are available in the files of the U.S. Geological Survey. Extremes for period of record have been adjusted to present datum. See DATUM.

PERIOD OF RECORD.--April 1985 to September 1986 (semiannual), December 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 22.05 ft NGVD, Aug. 28-31, 1995; lowest, 0.77 ft below NGVD, Apr. 26, 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	19.76	16.62	6.72	9.49	16.07	13.94	8.00	13.14	13.01	16.74	19.67	---
10	18.68	17.98	10.90	8.72	11.45	12.17	6.93	13.02	14.86	17.01	20.09	20.72
15	17.49	10.53	14.78	7.29	13.19	11.18	12.59	11.30	---	16.57	---	19.78
20	14.88	12.45	15.86	13.36	11.58	11.20	10.14	11.32	16.65	16.50	---	18.39
25	13.06	9.25	9.83	12.70	12.59	9.27	9.59	11.56	15.92	17.32	20.47	18.18
EOM	14.05	7.96	9.39	14.17	16.35	8.67	10.81	11.30	16.27	18.12	---	---
MAX	21.17	18.51	17.04	14.17	16.63	16.39	12.59	13.19	---	18.12	---	---



COLLIER COUNTY—Continued

WELL NUMBER.--262212081312501. Local Number C 1245.

LOCATION.--Lat 26°22'12", long 81°31'25, in SE $^1/_4$ SE $^1/_4$ SW $^1/_4$ sec.21, T.47 S., R.28 E., Hydrologic Unit 03090204, 20 ft east of Oil Well Grade Road, .5 mi north of County Road 846, 2 mi east of Everglades Boulevard.

AQUIFER.--Lower Tamiami aquifer of Pliocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 82.4 ft.

INSTRUMENTATION.--Satellite data collection platform with pressure gage.

DATUM.--Measuring point: Top of casing, 26.39 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 23.9 ft above NGVD.

PERIOD OF RECORD.--June 2003 to current year.

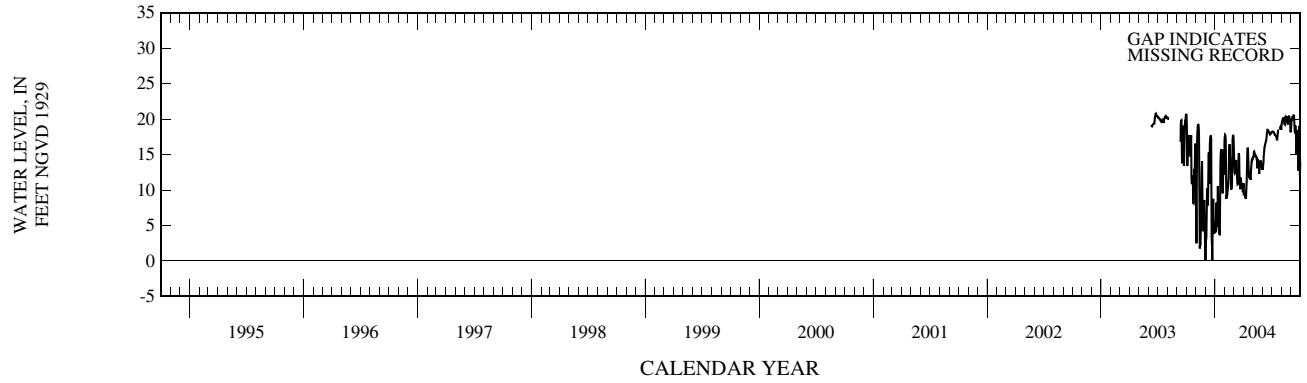
EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 20.81 ft above NGVD, June 25, 2003; lowest, 0.10 ft NGVD, Dec. 23, 2003.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	---	20.14	20.11	---
10	---	---	---	---	---	---	---	---	19.16	19.81	---	---
15	---	---	---	---	---	---	---	---	19.20	19.70	---	19.84
20	---	---	---	---	---	---	---	---	19.36	19.46	---	18.62
25	---	---	---	---	---	---	---	---	20.81	20.27	---	17.79
EOM	---	---	---	---	---	---	---	---	20.35	20.18	---	20.62
MAX	---	---	---	---	---	---	---	---	---	20.44	---	---

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	16.42	18.08	6.46	8.21	13.04	12.53	9.63	15.43	14.99	18.20	20.01	20.26
10	14.77	17.91	11.96	10.55	9.94	13.22	10.37	14.86	16.56	17.88	19.34	20.49
15	17.10	2.37	16.57	4.25	16.02	11.31	15.86	13.08	18.15	17.53	20.33	18.54
20	11.08	14.05	10.94	15.74	12.65	11.67	12.15	13.96	18.36	18.12	20.24	16.74
25	11.07	6.50	7.79	9.52	15.20	10.74	12.78	14.09	17.86	---	20.37	16.43
EOM	10.82	2.68	5.16	16.33	17.35	10.20	14.32	13.15	18.13	18.48	18.64	14.00
MAX	20.61	19.19	17.61	16.33	17.78	15.61	15.98	15.43	18.49	---	20.37	20.54



COLLIER COUNTY—Continued

WELL NUMBER.--262228081361901. Local Number C 492.

LOCATION.--Lat 26°22'28", long 81°36'19", in SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.22, T.47 S., R.27 E., Hydrologic Unit 03090204, Corkscrew Swamp Sanctuary, north of service road, 0.01 mi west of parking lot, 1 mi west and 0.55 mi north of County Road 846 on County Road 849 and 12 mi north of Immokalee.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD. See REMARKS

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 64 ft, cased 60 ft, open hole 60 to 64 ft. See REMARKS.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of shelf, 21.46 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 18.4 ft above NGVD.

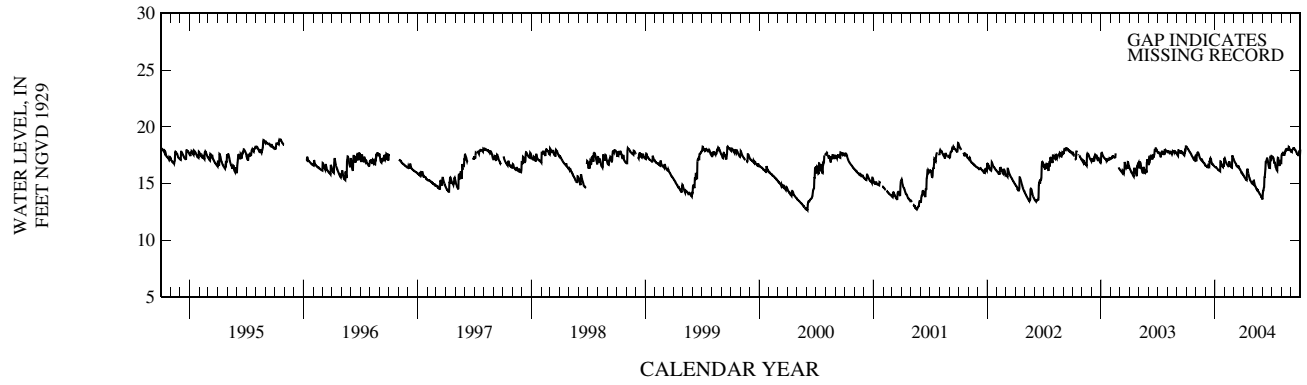
REMARKS.--Well was used for salinity monitoring until September 2004. Borehole camera inspection indicates that this well is open to the aquifer at a depth of 19 ft and is currently 21 ft deep. It is unknown whether or not the cased depth and well depth that were initially reported for this well were incorrect. It is possible that the casing has separated and the well has filled in with rock from the formation. See WELL CHARACTERISTICS.

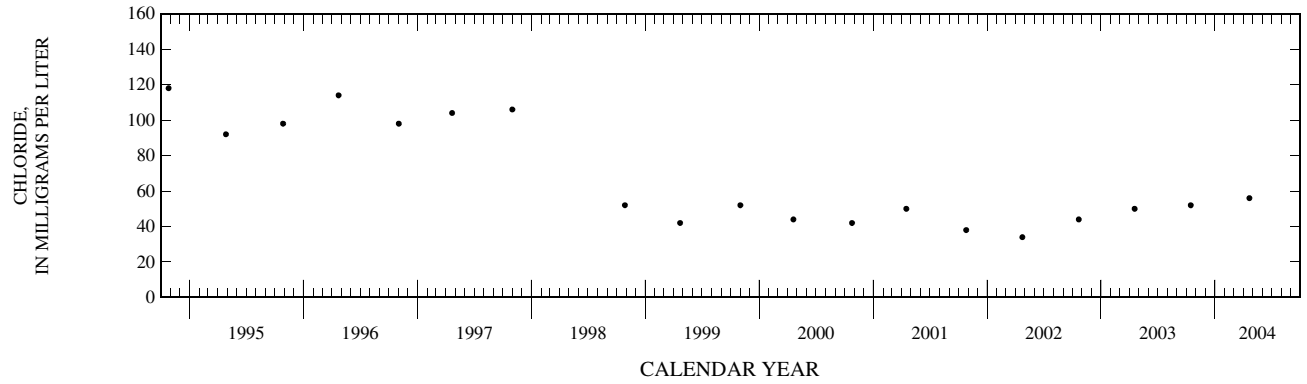
PERIOD OF RECORD.--October 1973 to September 1984 (daily), October 1984 to October 1986 (intermittent), November 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 18.88 ft NGVD, Oct. 19, 1995; lowest, 12.35 ft NGVD, May 6, 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	18.10	17.73	16.52	16.40	16.90	16.85	15.53	15.12	14.61	17.25	17.73	18.00
10	17.86	17.56	16.64	16.26	16.61	16.60	15.34	14.72	16.27	16.86	17.47	18.09
15	17.65	17.18	16.95	16.15	16.96	16.43	16.05	14.34	17.22	16.32	17.95	17.93
20	17.36	17.12	16.93	16.85	16.51	16.27	15.54	14.25	16.68	17.28	18.02	17.61
25	17.13	16.84	16.66	16.49	17.43	15.98	15.18	14.00	16.46	16.56	18.20	17.52
EOM	17.13	16.63	16.48	17.21	17.19	15.77	15.05	13.68	17.40	16.79	17.84	18.01
MAX	18.26	17.75	17.23	17.21	17.43	17.14	16.25	15.26	17.40	17.38	18.24	18.14





COLLIER COUNTY—Continued

WELL NUMBER.--262228081361902. Local Number C 1080.

LOCATION.--Lat 26°22'28", long 81°36'19", in SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.22, T.47 S., R.27 E., Hydrologic Unit 03090204, at Corkscrew Swamp Sanctuary, next to C-492 north of service road, 0.1 mi west of parking lot, 1 mi west and 0.55 mi north of County Road 846 on County Road 849 and 12 mi southwest of Immokalee and 15 mi northeast of East Naples.

AQUIFER.--Mid-Hawthorn aquifer of the Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 309 ft, cased to 238 ft, open hole 238 to 309 ft.

INSTRUMENTATION.--Monthly measurement with pressure gage or chalked tape.

DATUM.--Measuring point: Top of 2 3/4 in. bushing, 23.46 ft above National Geodetic Vertical Datum of 1929. Prior to October 1992, measuring point was top of casing, 21.86 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 18.9 ft above NGVD.

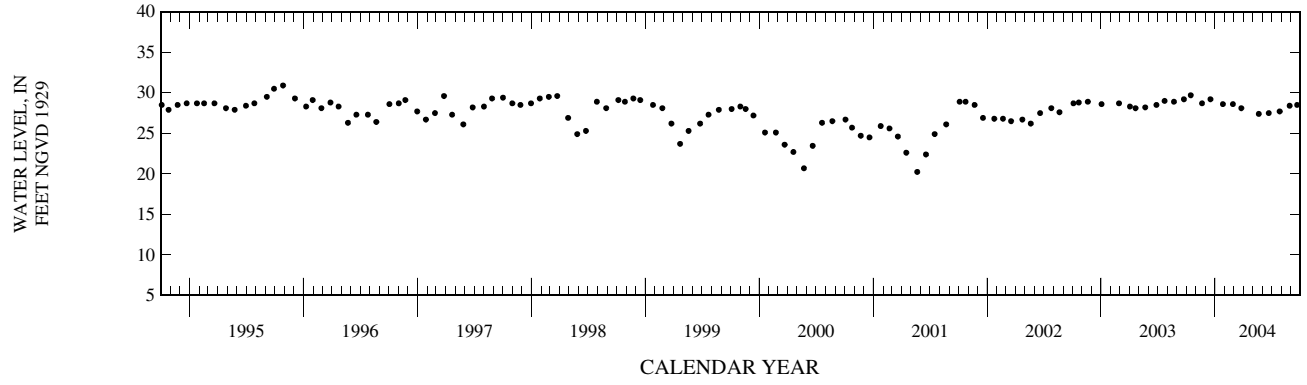
REMARKS.--Well is also used for salinity monitoring. This well is open to the aquifer for 71 ft. The exact depth from which the chloride-containing water is emanating cannot be further delineated.

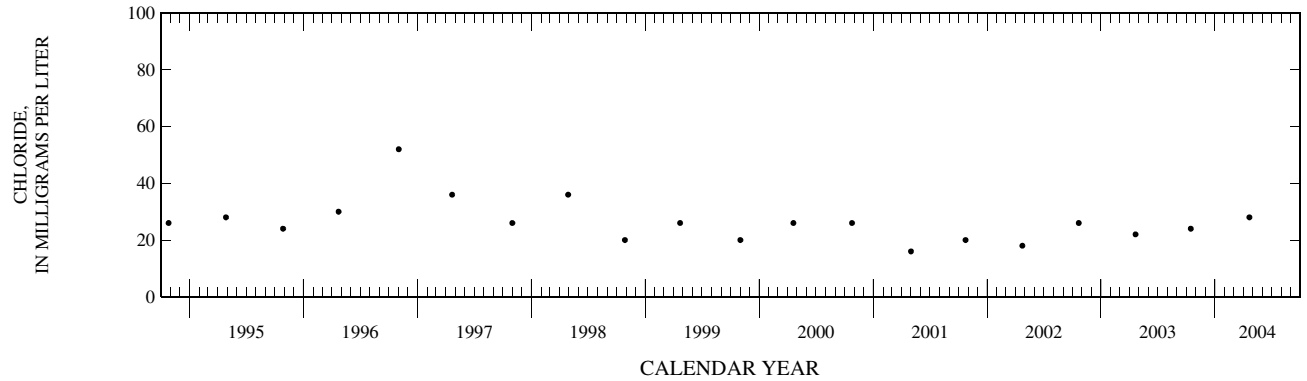
PERIOD OF RECORD.--October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 30.90 ft NGVD, Oct. 27, 1995; lowest, 11.76 ft NGVD, Feb. 22, 1989.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
15...	1049	29.7	442	24
NOV				
20...	1006	28.7	--	--
DEC				
17...	1250	29.2	--	--
JAN				
26...	1217	28.6	--	--
FEB				
27...	1420	28.6	--	--
MAR				
25...	1400	28.1	--	--
APR				
20...	1345	--	442	28
MAY				
20...	1553	27.4	--	--
JUN				
21...	1118	27.5	--	--
JUL				
26...	1028	27.7	--	--
AUG				
27...	1315	28.4	--	--
SEP				
20...	0848	28.5	--	--





COLLIER COUNTY—Continued

WELL NUMBER.--262248081314101. Local Number C 1244.

LOCATION.--Lat 26°22'48", long 81°31'41", in NW $^1/_4$ SE $^1/_4$ SW $^1/_4$ sec.21, T.47 S., R.28 E., Hydrologic Unit 03090204, 250 ft west of Oil Well Grade Road, 1.5 mi north of County Road 846, 2 mi east of Everglades Boulevard.

AQUIFER.--Lower Tamiami aquifer of Pliocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 70 ft.

INSTRUMENTATION.--Satellite data collection platform with pressure gage.

DATUM.--Measuring point: Top of casing, 25.89 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 22.7 ft above NGVD.

PERIOD OF RECORD.--June 2003 to current year.

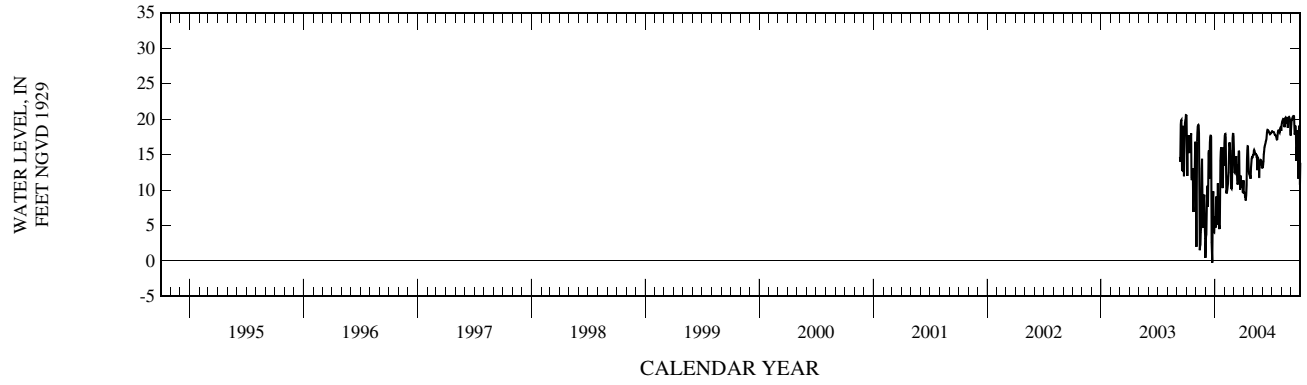
EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 20.54 ft above NGVD, Sept. 29, 2003; lowest, 0.25 ft below NGVD, Dec. 23, 2003.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	14.68
15	---	---	---	---	---	---	---	---	---	---	---	19.88
20	---	---	---	---	---	---	---	---	---	---	---	18.67
25	---	---	---	---	---	---	---	---	---	---	---	17.95
EOM	---	---	---	---	---	---	---	---	---	---	---	20.52
MAX	---	---	---	---	---	---	---	---	---	---	---	---

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	16.41	18.09	6.43	9.09	14.06	12.80	9.73	15.66	15.04	18.19	19.90	20.19
10	15.21	18.00	12.15	10.95	10.50	13.58	10.46	15.13	16.57	17.87	18.87	20.40
15	17.49	2.25	16.70	4.94	16.32	11.38	16.13	12.79	18.12	17.52	20.19	18.34
20	11.99	14.41	11.00	16.00	13.68	11.80	12.36	14.22	18.36	18.13	20.12	16.64
25	10.99	7.38	8.86	10.28	15.58	10.82	13.17	14.26	17.87	18.19	20.30	16.49
EOM	10.41	3.13	5.84	16.61	17.55	10.56	14.63	13.34	18.14	18.35	18.55	13.84
MAX	20.49	19.19	17.66	16.61	18.02	15.54	16.16	15.66	18.48	18.81	20.30	20.45



COLLIER COUNTY—Continued

WELL NUMBER.--262505081245301. Local Number C 258.

LOCATION.--Lat 26°25'03", long 81°24'58", in NW $^1/_4$ SW $^1/_4$ sec.3, T.47 S., R.29 E., Hydrologic Unit 03090204, 100 ft south of County Road 29, 500 ft east of State Road 846 and 0.10 mi east southeast of the Immokalee Post Office.

AQUIFER.--Lower Hawthorn aquifer of Oligocene to Miocene Age, Geologic Unit 122 LMSN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 783 ft.

INSTRUMENTATION.--Monthly measurement with pressure gage.

DATUM.--Measuring point: Top of 4 in. steel cap, 36.46 ft above National Geodetic Vertical Datum of 1929. Prior to September 1991, measuring point was incorrectly considered to be 37.06 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 33.7 ft above NGVD. (Corrected).

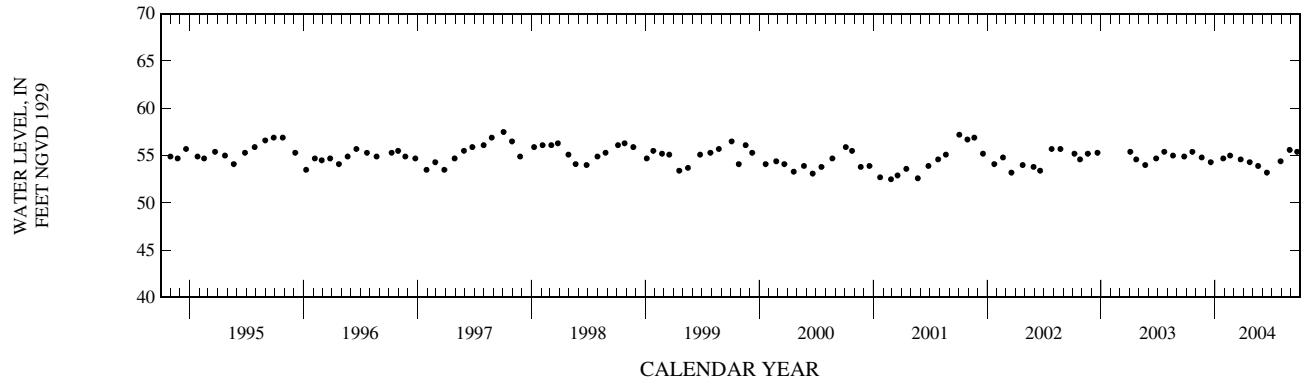
REMARKS.--The figures of water levels as elevation, in feet NGVD, prior to September 1991 are in error. A correction of -0.60 ft has been applied to correct water-level data. Corrected records are in files of the U.S. Geological Survey. See DATUM. Records of water levels prior to October 1983 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--April 1981 to September 1993 (monthly), October 1993 to September 1994 (semiannual), October 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 57.50 ft NGVD, Oct. 03, 1997; lowest, 51.50 ft NGVD, May 29, 1984 and June 24, 1987.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
20...	1418	55.4	21...	0940	54.3
NOV			MAY		
19...	1513	54.8	18...	1001	53.9
DEC			JUN		
18...	1136	54.3	15...	1351	53.2
JAN			JUL		
27...	1015	54.7	29...	1218	54.4
FEB			AUG		
18...	0938	55.0	27...	1022	55.6
MAR			SEP		
23...	1149	54.6	20...	0909	55.4



COLLIER COUNTY—Continued

WELL NUMBER.--262507081235201. Local Number C 298.

LOCATION.--Lat 26°25'09", long 81°23'54", in SW $^1/_4$ NW $^1/_4$ sec.2, T.47 S., R.29 E., Hydrologic Unit 03090204, 30 ft north of County Road 846, 0.75 mi east of State Road 29, and 1.4 mi east of the Immokalee Post Office.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 3 in., depth 303 ft, cased to 254 ft, open hole 254 to 303 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 33.38 ft above National Geodetic Vertical Datum of 1929. Prior to October 25, 2002, measuring point was 33.41 ft above NGVD. See DATUM.

LAND-SURFACE DATUM.--Land surface is approximately 31.9 ft above NGVD.

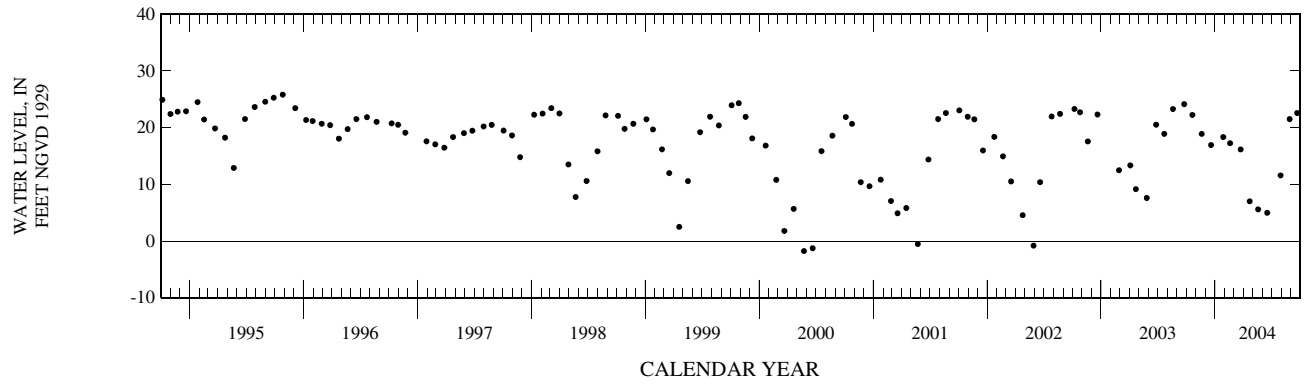
REMARKS.--Records of water levels prior to October 1983 are available in files of the U.S. Geological Survey. The well was damaged on October 25, 2002, and was repaired on November 25, 2003. See DATUM.

PERIOD OF RECORD.--October 1981 (annual), October 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.80 ft NGVD, Oct. 26, 1995; lowest, 1.76 ft below NGVD, May 23, 2000.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
20...	1139	22.22	21...	0949	7.01
NOV			MAY		
19...	1327	18.88	18...	1222	5.58
DEC			JUN		
19...	1012	16.92	16...	1134	4.97
JAN			JUL		
27...	1140	18.32	29...	1407	11.56
FEB			AUG		
18...	1114	17.24	27...	1219	21.49
MAR			SEP		
23...	1320	16.14	20...	1028	22.56



COLLIER COUNTY—Continued

WELL NUMBER.--262519081162102. Local Number C 1074.

LOCATION.--Lat 26°25'20", long 81°16'19", in NE ¼ SE ¼ NE ¼ sec.1, T.47 S., R.30 E., Hydrologic Unit 03090204, 50 ft south of County Road 846 at the Collier/Hendry County line southwest corner of County Road 846 and County Road 858, 9 mi east of Immokalee.

AQUIFER.--Lower Tamiami aquifer of the Pliocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 130 ft, cased to 100 ft, open hole 100 to 130 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 29.71 ft above National Geodetic Vertical Datum of 1929. Prior to November 25, 1997, measuring point was top of shelf, 29.94 ft NGVD. (Corrected). See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 26.2 ft above NGVD.

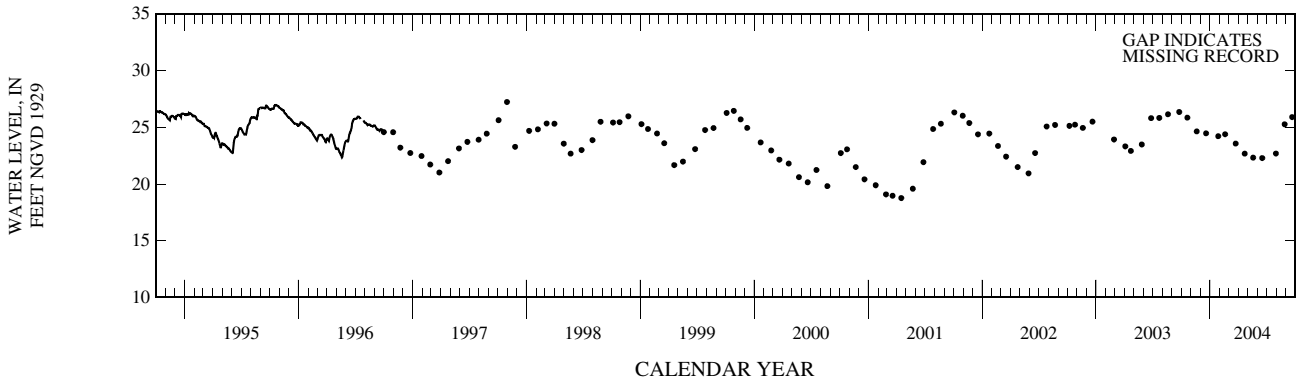
REMARKS.--Data logger enclosure and shelf removed, site re-surveyed April 30, 1998. See DATUM.

PERIOD OF RECORD.--November 1986 to September 1996 (daily), October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 27.22 ft NGVD, Oct. 30, 1997; lowest, 18.76 ft NGVD, Apr. 16, 2001.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
20...	1112	25.84	21...	1004	22.67
NOV			MAY		
19...	1310	24.63	18...	1235	22.32
DEC			JUN		
19...	0931	24.46	16...	1147	22.28
JAN			JUL		
27...	1153	24.21	30...	1234	22.68
FEB			AUG		
18...	1126	24.38	27...	1232	25.26
MAR			SEP		
23...	1334	23.56	20...	1039	25.89



COLLIER COUNTY—Continued

WELL NUMBER.--262521081161901. Local Number C 131.

LOCATION.--Lat 26°25'20", long 81°16'19", in NE ¼ SE ¼ NE ¼ sec.1, T.47 S., R.30 E., Hydrologic Unit 03090204, 50 ft northeast of the intersection of County Road 846 and County Road 858, at the Collier/Hendry County line and 9 mi east of Immokalee.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 54 ft, cased to 22 ft, open hole 22 to 54 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of recorder shelf, 29.65 ft above National Geodetic Vertical Datum of 1929. From October 1975 to September 1980, measuring point was incorrectly reported to be top of casing, 29.71 ft above NGVD. Prior to October 1975, measuring point was considered to be top of casing, 29.60 ft above NGVD. The figures of water level as elevation, in feet NGVD, prior to October 1975 are considered to be in error. The figures of water level as elevation, in feet NGVD, from October 1975 to September 1980 may also be in error. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 29.2 ft above NGVD. (Corrected).

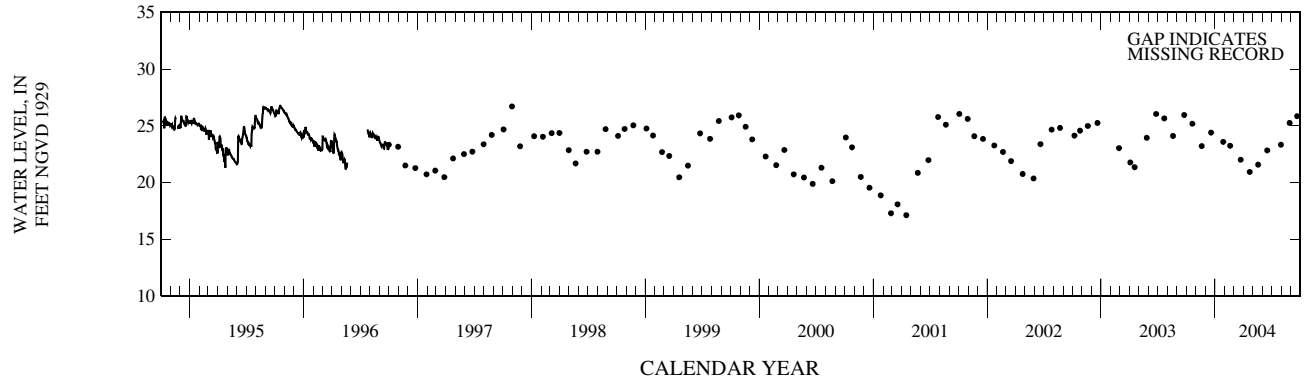
REMARKS.--Water levels affected by nearby irrigation. The figures of water level as elevation, in feet NGVD, prior to October 1975 are considered to be in error. A correction of +0.05 ft may be required to correct water-level data. See DATUM. Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--June 1952 to September 1996 (daily), October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 26.83 ft NGVD, present datum, Oct. 9, 1953; lowest, 15.73 ft NGVD, Apr. 14, 1989.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
20...	1120	25.19	21...	1011	20.94
NOV			MAY		
19...	1315	23.22	18...	1240	21.58
DEC			JUN		
19...	0929	24.41	16...	1150	22.84
JAN			JUL		
27...	1157	23.59	30...	1229	23.34
FEB			AUG		
18...	1131	23.25	27...	1235	25.26
MAR			SEP		
23...	1339	22.02	20...	1045	25.85



COLLIER COUNTY—Continued

WELL NUMBER.--262554081283801. Local Number C 687.

LOCATION.--Lat 26°25'54", long 81°28'39", in NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.36, T.46 S., R.28 E., Hydrologic Unit 03090204, in island of Tippins Terrace Road, 0.1 mi south of County Road 890, 3.2 mi west of the Immokalee Post Office.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 310 ft, cased to 290 ft, open hole 290 to 310 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of casing, 27.06 ft above National Geodetic Vertical Datum of 1929. From October 1989 to March 17, 1998, top of casing was 25.92 ft above NGVD. From October 1985 to September 1989, top of casing was 26.24 ft above NGVD. Prior to October 1985, top of casing was incorrectly considered to be 9.81 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 23.6 ft above NGVD.

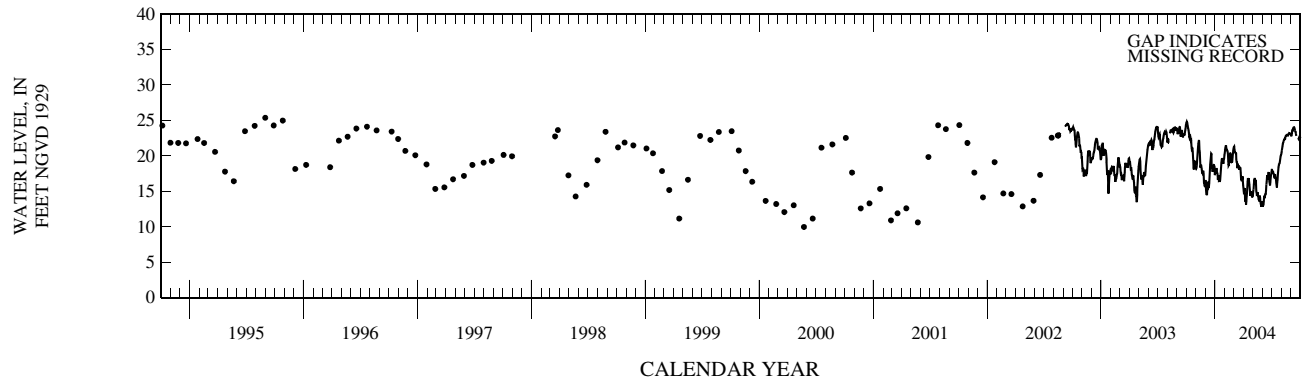
REMARKS.--The figures of water level as elevation, in feet NGVD, prior to October 1985 are in error. A correction of +15.43 ft has been applied to correct water-level data. Corrected records are in the files of the U.S. Geological Survey. See DATUM. Records of water levels prior to October 1983 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--October 1981 to September 1982 (intermittent), October 1982 to July 2002 (monthly), August 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.38 ft NGVD, Aug. 31, 1995; lowest, 4.03 ft NGVD, Apr. 24, 1989.

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	24.28	19.99	14.60	18.28	21.48	20.52	15.45	16.51	13.62	17.68	21.70	23.62
10	22.74	22.25	16.13	16.66	20.57	19.14	13.60	16.21	14.62	16.97	22.38	23.97
15	22.14	18.35	17.93	16.82	19.30	18.67	16.89	14.58	16.98	16.18	22.84	23.40
20	21.08	17.72	20.27	18.48	20.13	18.30	15.95	13.86	17.61	17.42	22.93	---
25	18.10	17.50	18.04	19.41	19.27	16.76	15.00	13.54	15.85	18.90	23.18	22.41
EOM	18.24	16.36	17.29	20.10	21.05	15.84	14.26	13.22	17.81	20.19	22.94	22.53
MAX	24.81	22.25	20.32	20.10	21.48	21.32	16.89	16.77	17.81	20.19	23.18	---



COLLIER COUNTY—Continued

WELL NUMBER.--262555081242501. Local Number C 363.

LOCATION.--Lat 26°25'55", long 81°24'25", in NW $^1/_4$ SE $^1/_4$ sec.34, T.46 S., R.29 E., Hydrologic Unit 03090204, 54 ft south of west access road to Immokalee Airport near beacon tower, 1 mi north of State Road 29 and 1.2 mi east of the Immokalee Post Office.

AQUIFER.--Tamiami aquifer of the Pliocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 2 in., depth 119 ft, cased to 84 ft, open hole 84 to 119 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 33.86 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 34.1 ft above NGVD.

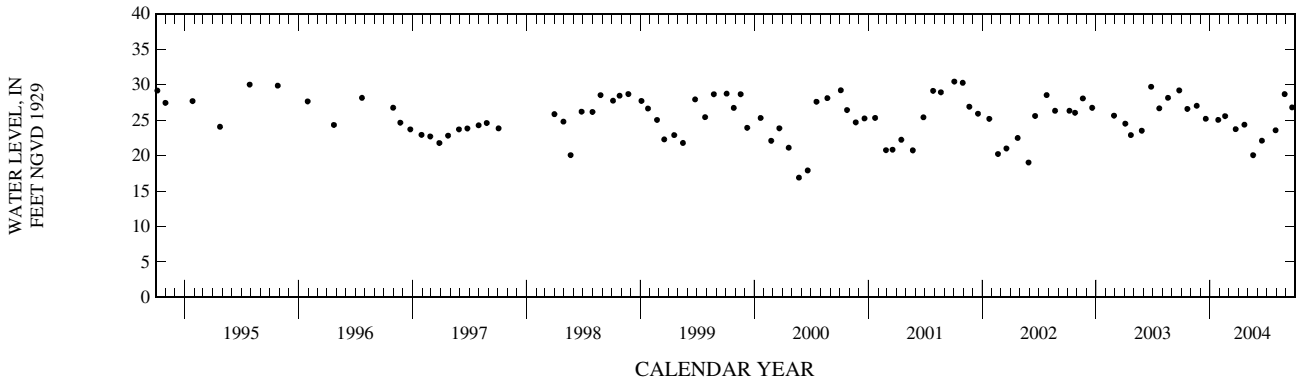
REMARKS.--Records of water levels prior to October 1983 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--June 1961 to September 1994 (monthly), October 1994 to September 1996 (quarterly), October 1996 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 33.19 ft NGVD, June 24, 1982; lowest, 16.89 ft NGVD, May 23, 2000.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
20...	1155	26.58	20...	1340	24.36
NOV			MAY		
19...	1341	27.02	18...	1019	20.06
DEC			JUN		
18...	1145	25.19	15...	1404	22.10
JAN			JUL		
27...	1023	25.03	29...	1228	23.57
FEB			AUG		
18...	0947	25.56	27...	1037	28.66
MAR			SEP		
23...	1159	23.72	20...	0921	26.79



COLLIER COUNTY—Continued

WELL NUMBER.--262558081270501. Local Number C 1078.

LOCATION.--Lat 26°25'59", long 81°27'07", in SE ¼ SE ¼ NE ¼ sec.31, T.46 S., R.29 E., Hydrologic Unit 03090204, 25 ft north of County Road 890, 1.1 mi west of State Road 29 on County Road 890, 2.0 mi west of Immokalee Post Office.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 38 ft, cased to 13 ft, screened 13 to 38 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of 4 in. casing, 34.99 ft above National Geodetic Vertical Datum of 1929. Prior to August 6, 1995, top of casing was 34.71 ft above NGVD.

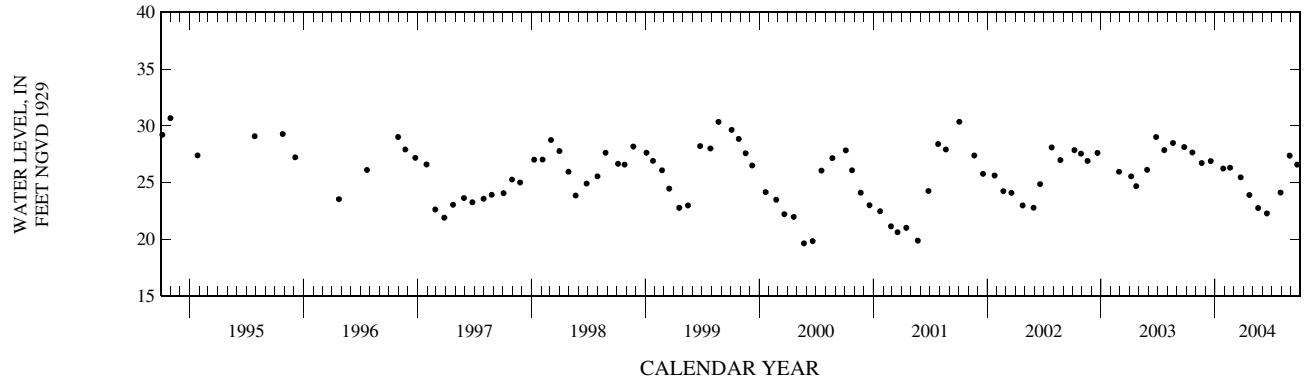
LAND-SURFACE DATUM.--Land surface is approximately 31.4 ft above NGVD.

PERIOD OF RECORD.--April 1986 to September 1994 (monthly), October 1994 to September 1996 (quarterly), October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.17 ft NGVD, Sept. 1, 1988; lowest, 19.65 ft NGVD, May 23, 2000.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
20...	1509	27.66	20...	1228	23.91
NOV			MAY		
19...	1530	26.73	18...	0929	22.76
DEC			JUN		
18...	1045	26.90	15...	1421	22.29
JAN			JUL		
27...	0913	26.24	29...	1106	24.12
FEB			AUG		
18...	0853	26.31	27...	0944	27.38
MAR			SEP		
23...	1117	25.47	20...	0900	26.59



COLLIER COUNTY—Continued

WELL NUMBER.--262724081260701. Local Number C 462.

LOCATION.--Lat 26°27'26", long 81°26'12", in SE ¼ NW ¼ sec.20, T.46 S., R.29 E., Hydrologic Unit 03090204, in pasture 0.1 mi west of State Road 29, 1.7 mi north of County Road 850 and 2.5 mi northwest of Immokalee.

AQUIFER.--Lower Tamiami aquifer of the Pliocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 110 ft, cased to 50 ft, slotted casing 50 to 110 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of recorder base, 37.11 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 33.8 ft above NGVD.

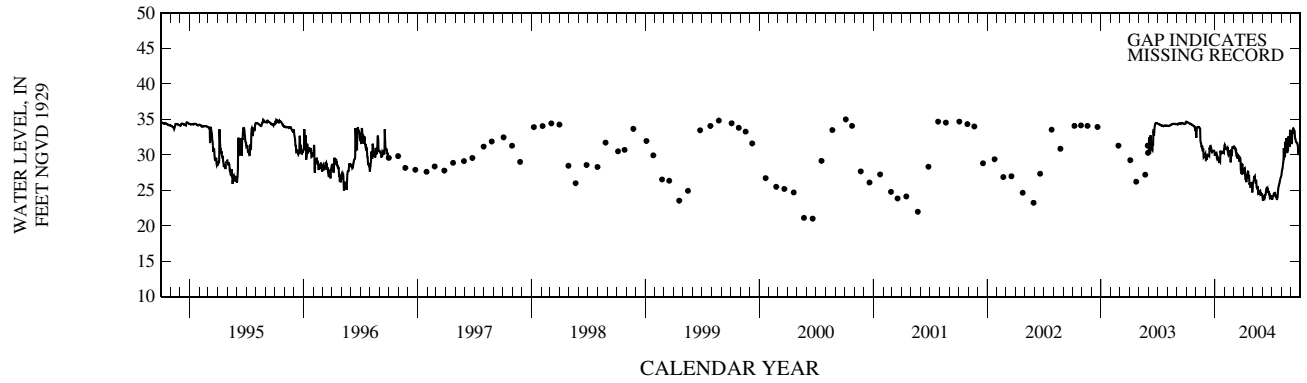
REMARKS.--Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--November 1968 to September 1996 (daily), October 1996 to May 2003 (monthly), May 2003 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 35.13 ft NGVD, Sept. 2, 1983; lowest water level measured, 21.02 ft NGVD, June 20, 2000.

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	34.58	33.89	29.48	30.29	30.84	30.98	28.06	26.90	23.85	24.19	28.49	33.54
10	34.45	33.93	29.92	29.30	30.67	29.85	26.16	26.22	24.30	24.57	29.70	33.53
15	34.34	31.98	30.79	29.04	30.54	29.83	27.66	25.17	25.23	24.12	30.32	32.11
20	34.20	31.23	30.70	30.22	28.95	29.42	25.82	24.63	24.89	24.67	30.39	31.69
25	34.05	29.71	30.48	30.45	31.08	27.41	25.91	24.55	23.89	25.96	32.35	30.30
EOM	33.39	30.10	29.89	31.25	31.14	27.29	25.39	24.36	23.80	26.98	32.17	---
MAX	34.68	33.93	31.26	31.25	31.44	31.18	28.06	27.01	25.30	26.98	33.54	---



COLLIER COUNTY—Continued

WELL NUMBER.--262822081213201. Local Number C 1075.

LOCATION.--Lat 26°28'31", long 81°21'57", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.18, T.46 S., R.30 E., Hydrologic Unit 03090205, 3.8 mi north of County Road 846 and 4.5 mi east of State Road 29, 5.0 mi northeast of Immokalee.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 20 ft, cased to 8 ft, screened 8 to 20 ft.

INSTRUMENTATION.--Electronic data logger with pressure transducer.

DATUM.--Measuring point: Top of base, 33.36 ft above National Geodetic Vertical Datum of 1929. From October 30, 1996, to March 27, 1998, measuring point was top of casing, 33.38 ft above NGVD. Prior to October 30, 1996, top of casing was 33.94 ft above NGVD.

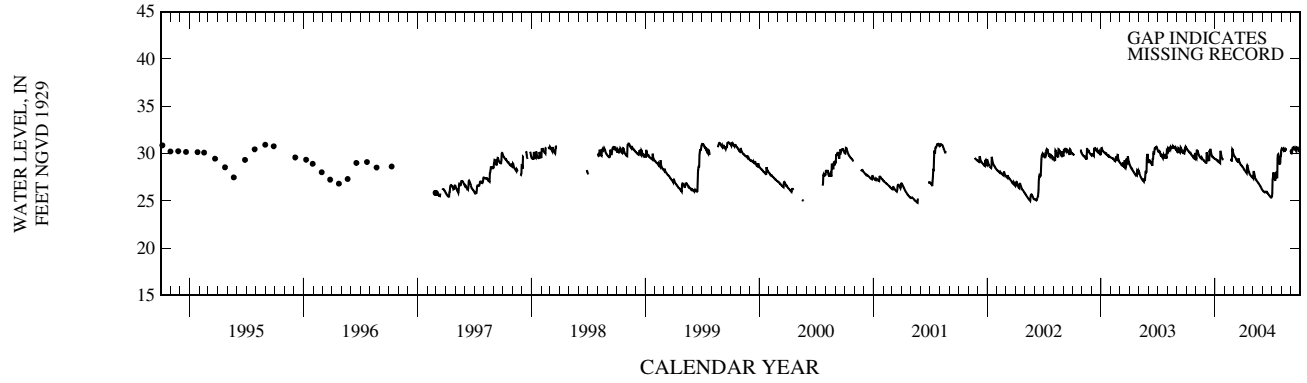
LAND-SURFACE DATUM.--Land surface is approximately 30.6 ft above NGVD.

PERIOD OF RECORD.--April 1986 to October 1996 (monthly), February 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 31.17 ft NGVD, Sept. 24, 1999; lowest, 24.79 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	30.40	30.31	30.13	29.36	---	29.61	28.22	27.90	25.98	27.92	30.47	30.55
10	30.15	29.84	29.53	29.24	---	29.32	27.99	27.32	25.97	27.32	30.30	30.53
15	29.97	29.55	30.14	29.05	---	29.13	28.46	27.05	25.91	27.81	30.35	30.40
20	29.71	29.55	29.90	29.93	29.38	28.99	27.93	26.81	25.69	29.91	---	30.58
25	29.51	29.30	29.61	29.42	30.46	28.74	27.63	26.54	25.47	28.91	---	30.40
EOM	29.61	29.09	29.43	---	29.94	28.50	27.54	26.19	25.41	30.35	30.12	30.51
MAX	30.57	30.31	30.41	---	---	29.87	28.75	28.06	26.13	30.35	---	30.69



COLLIER COUNTY—Continued

WELL NUMBER.--262822081213202. Local Number C 1076.

LOCATION.--Lat 26°28'31", long 81°21'58", in SW $^1/_4$ NE $^1/_4$ SW $^1/_4$ sec.18, T.46 S., R.30 E., Hydrologic Unit 03090205, 3.8 mi north of County Road 846 and 4.5 mi east of State Road 29, 5 mi northeast of Immokalee.

AQUIFER.--Tamiami aquifer of the Pliocene Age, Geologic Unit 122 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 85 ft, cased to 65 ft, open hole 65 to 85 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 34.05 ft above National Geodetic Vertical Datum of 1929.

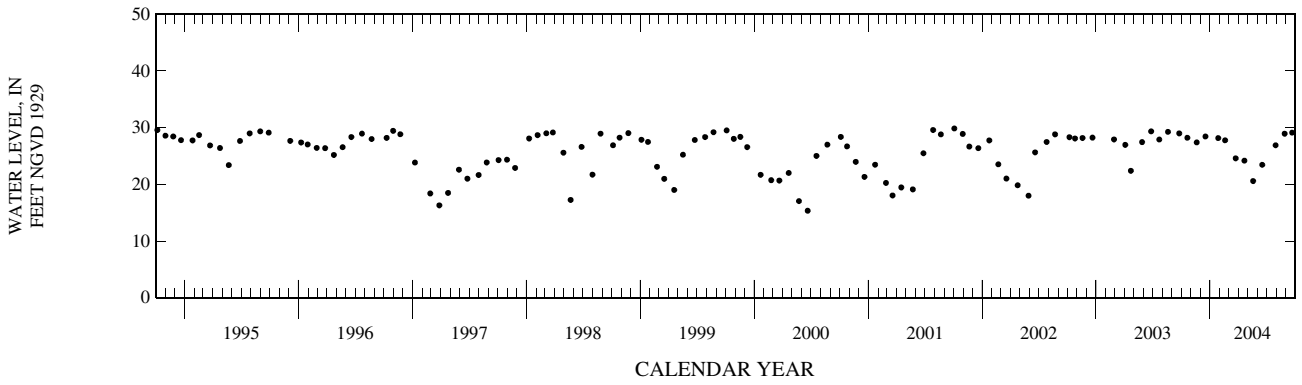
LAND-SURFACE DATUM.--Land surface is approximately 30.6 ft above NGVD.

PERIOD OF RECORD.--April 1986 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.90 ft NGVD, Mar. 31, 1987; lowest, 15.34 ft NGVD, June 20, 2000.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
20...	1339	28.20	20...	1440	24.17
NOV			MAY		
19...	1431	27.38	18...	1137	20.57
DEC			JUN		
17...	1039	28.43	16...	1103	23.44
JAN			JUL		
27...	1059	28.14	29...	1332	26.88
FEB			AUG		
18...	1025	27.75	27...	1141	28.92
MAR			SEP		
23...	1254	24.57	20...	0957	29.10



COLLIER COUNTY—Continued

WELL NUMBER.--262822081213203. Local Number C 1077.

LOCATION.--Lat 26°28'31", long 81°21'58", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.18, T.46 S., R.30 E., Hydrologic Unit 03090205, 3.8 mi north of County Road 846, and 4.5 mi east of State Road 29, 5 mi northeast of Immokalee.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 210 ft, cased to 170 ft, screened 170 to 210 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 35.14 ft above National Geodetic Vertical Datum of 1929.

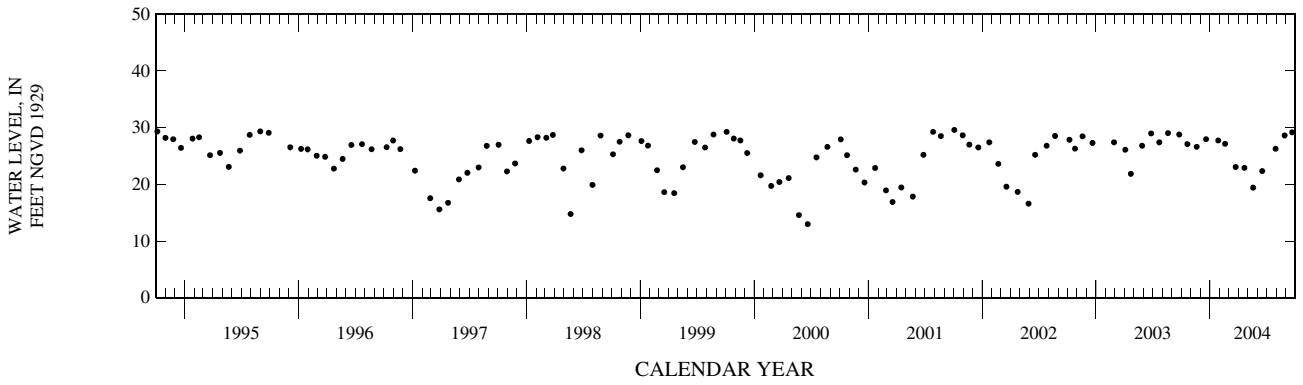
LAND-SURFACE DATUM.--Land surface is approximately 31.1 ft above NGVD.

PERIOD OF RECORD.--April 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.67 ft NGVD, Mar. 31, 1987; lowest, 12.98 ft NGVD, June 20, 2000.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
20...	1346	27.08	20...	1455	22.90
NOV			MAY		
19...	1426	26.61	18...	1110	19.40
DEC			JUN		
19...	1037	27.94	16...	1032	22.34
JAN			JUL		
27...	1054	27.72	29...	1308	26.25
FEB			AUG		
18...	1020	27.13	27...	1113	28.61
MAR			SEP		
23...	1227	23.05	20...	0955	29.15



COLLIER COUNTY—Continued

WELL NUMBER.--262859081273002. Local Number C 532.

LOCATION.--Lat 26°29'33", long 81°27'35", in NW $^1/_4$ SE $^1/_4$ sec.7, T.46 S., R.29 E., Hydrologic Unit 03090205, 24 ft north of State Road 82, 1.5 mi west of State Road 29 and 5.5 mi northwest of Immokalee.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 13 ft, cased to 3 ft, screened 3 to 13 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 44.53 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 41.9 ft above NGVD.

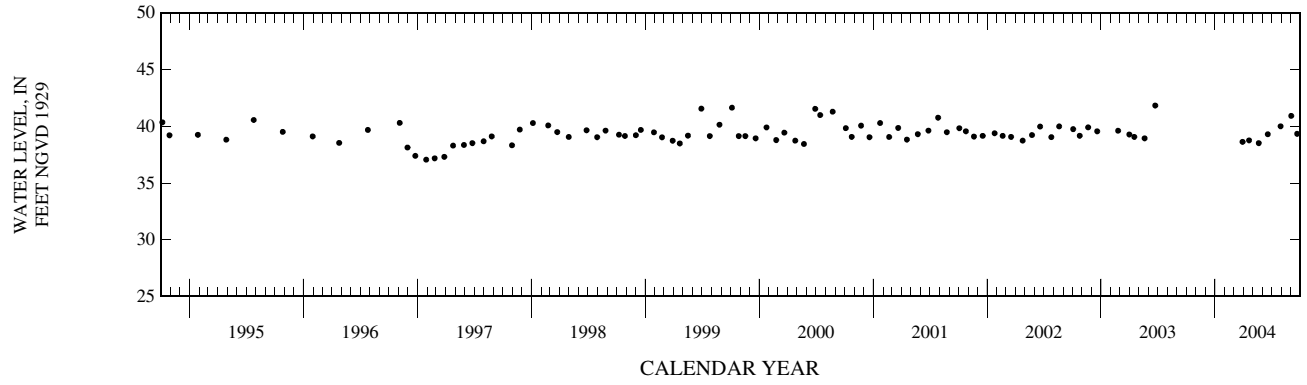
REMARKS.--Records of water levels prior to October 1978 are available in files of the U.S. Geological Survey. Data for the period August 2003 to March 22, 2004, were sampled from the wrong well (C-531). Data from well C-531 is available in the files of the U.S. Geological Survey.

PERIOD OF RECORD.--October 1975 to September 1994 (monthly), October 1994 to July 1996 (quarterly), November 1996 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 41.82 ft NGVD, June 23, 2003; lowest, 37.05 ft NGVD, Jan. 28, 1997.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)
MAR		
29...	1431	38.62
APR		
19...	1249	38.75
MAY		
20...	1051	38.51
JUN		
18...	1310	39.29
JUL		
29...	1026	39.99
SEP		
01...	1415	40.91
20...	0846	39.33



COLLIER COUNTY—Continued

MISCELLANEOUS WATER-LEVEL MEASUREMENTS

Station number	Local identifier	Latitude	Longitude	Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
261002081483701	C - 525	26 09 58 N	081 48 35 W	10-20-03	1125		3240	860
		26 09 58 N	081 48 35 W	04-20-04	1152		3510	840
260314081323103	C - 1067R	26 03 16 N	081 32 31 W	11-19-03	1015	4.80		
		26 03 16 N	081 32 31 W	12-16-03	1017	3.55		
		26 03 16 N	081 32 31 W	01-29-04	1338	3.08		
		26 03 16 N	081 32 31 W	02-19-04	1110	3.38		
		26 03 16 N	081 32 31 W	03-24-04	1140	2.80		
		26 03 16 N	081 32 31 W	04-23-04	1541	2.50		
		26 03 16 N	081 32 31 W	05-19-04	0922	1.90		
		26 03 16 N	081 32 31 W	06-17-04	1210	3.69		
		26 03 16 N	081 32 31 W	07-26-04	1405	4.35		
		26 03 16 N	081 32 31 W	08-31-04	1208	6.17		
		26 03 16 N	081 32 31 W	09-20-04	1349	4.92		
260314081323104	C - 1068R	26 03 16 N	081 32 31 W	11-19-03	1017	5.12		
		26 03 16 N	081 32 31 W	12-16-03	1021	4.02		
		26 03 16 N	081 32 31 W	01-29-04	1340	3.63		
		26 03 16 N	081 32 31 W	02-19-04	1115	3.95		
		26 03 16 N	081 32 31 W	03-24-04	1147	3.33		
		26 03 16 N	081 32 31 W	04-23-04	1546	3.04		
		26 03 16 N	081 32 31 W	05-19-04	0926	2.39		
		26 03 16 N	081 32 31 W	06-17-04	1221	3.33		
		26 03 16 N	081 32 31 W	07-26-04	1408	4.55		
		26 03 16 N	081 32 31 W	08-31-04	1210	6.17		
		26 03 16 N	081 32 31 W	09-20-04	1353	5.19		

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Glades County

Key to site locations on figure # 15

GLADES COUNTY

Index Number	Site Number	Well Name	Page Number
1	264941081321301	GL 328	223
2	264623081213601	HE 517	222

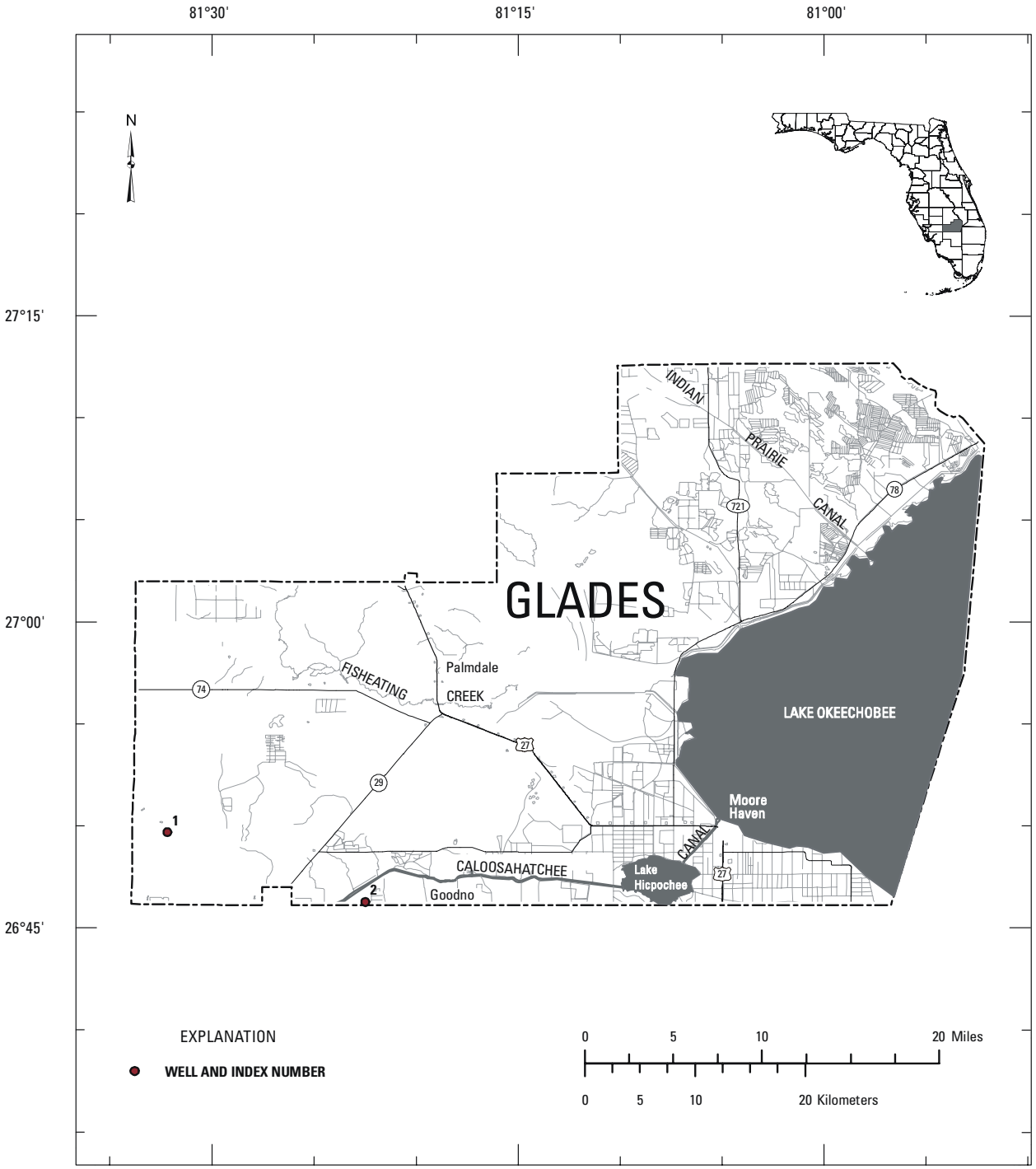


Figure 15. Location of wells in Glades County

GLADES COUNTY

WELL NUMBER.--264623081213601. Local Number HE 517.

LOCATION.--Lat 26°46'14", long 81°22'28", in NW $^1/_4$ SW $^1/_4$ SE $^1/_4$ sec.36, T.42 S., R.29 E., Hydrologic Unit 03090205, at Port La Belle Golf Course maintenance shop, 4.8 mi east of Birchwood Parkway, 0.7 mi north of State Road 80.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 138 ft, cased to 128 ft, screened 128 to 138 ft.

REVISED RECORDS.--WDR FL-79-2B:1977-78.

INSTRUMENTATION.--Electronic data logger with pressure transducer.

DATUM.--Measuring point: Top of recorder shelf, 18.14 ft above National Geodetic Vertical Datum of 1929.

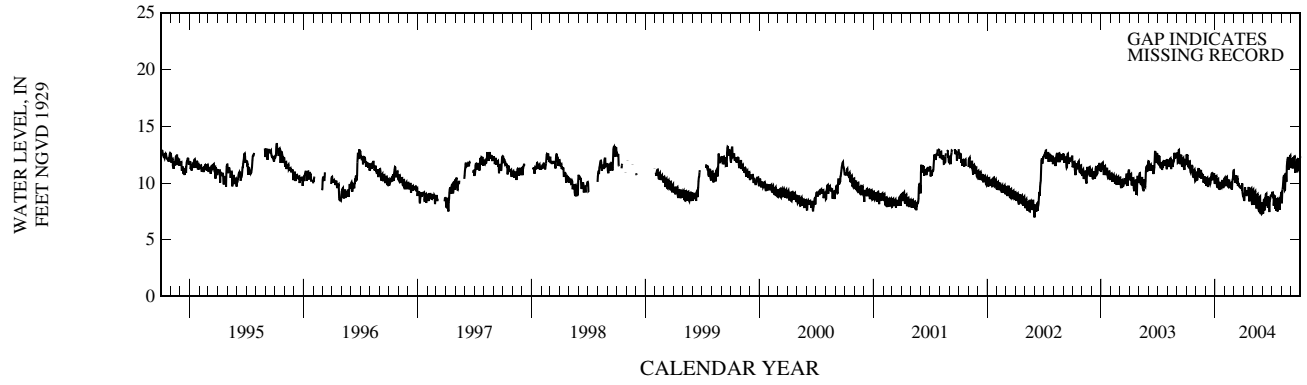
LAND-SURFACE DATUM.--Land surface is approximately 16.0 ft above NGVD.

PERIOD OF RECORD.--February 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 14.29 ft NGVD, June 25, 1982; lowest, 6.97 ft NGVD, June 1, 2002.

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	12.42	10.29	10.26	10.60	10.26	10.36	9.47	8.71	8.51	8.88	9.60	12.15
10	11.73	10.77	10.02	10.36	9.80	10.12	8.93	8.15	8.64	8.83	9.55	12.17
15	10.90	10.89	9.97	9.47	10.29	10.01	9.10	8.99	8.49	7.55	10.88	11.72
20	11.49	10.88	10.75	9.66	9.62	9.63	8.38	7.56	8.71	8.20	12.06	10.94
25	10.93	10.02	10.66	10.25	10.05	9.59	9.52	7.76	8.53	8.62	11.89	12.03
EOM	10.73	10.51	9.91	10.41	11.09	8.76	9.09	8.17	8.94	9.15	11.55	12.34
MAX	12.51	11.30	10.84	10.60	11.09	11.11	9.64	9.40	9.07	9.15	12.40	12.34



GLADES COUNTY—Continued

WELL NUMBER.--264941081321301. Local Number GL 328. USGS Observation Well near La Belle, FL.

LOCATION.-- Lat 26°49'40", long 81°32'11", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.11, T.42 S., R.28 E., Hydrologic Unit 03090205, 30 ft south of County Road 720, 2 mi east of the intersection of Muse Road and County Road 720.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 125 ft.

INSTRUMENTATION.--Satellite data collection platform with a pressure transducer.

DATUM.--Measuring point: Top of 8 in. iron pipe, 41.63 ft above National Geodetic Vertical Datum of 1929.

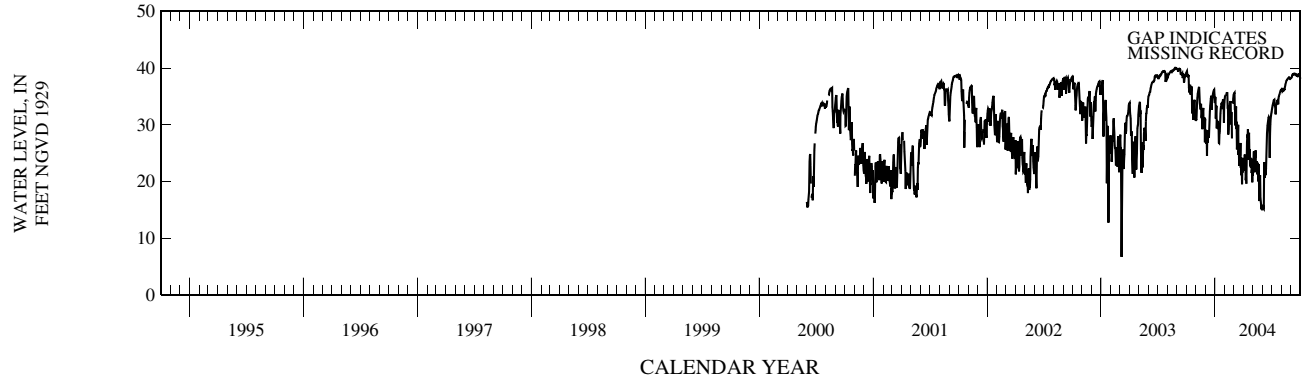
LAND-SURFACE DATUM.--Land surface is approximately 41.0 ft above NGVD.

PERIOD OF RECORD.--June 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 40.06 ft NGVD, Aug. 26, 2003; lowest, 6.74 ft NGVD, Mar. 7, 2003.

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	38.73	34.77	28.06	33.37	35.14	32.88	24.76	22.10	15.25	33.82	36.05	38.83
10	35.72	36.56	27.96	30.29	33.07	30.56	19.64	25.51	22.92	33.68	36.12	39.00
15	35.69	32.73	32.39	28.51	31.33	30.01	29.25	22.67	28.49	33.67	37.39	38.79
20	32.15	32.00	35.12	33.43	34.19	24.08	24.37	23.05	31.16	34.48	38.08	38.65
25	32.62	29.33	35.43	33.99	---	21.12	23.42	17.31	28.30	35.33	38.29	38.62
EOM	30.70	30.70	33.84	33.99	35.20	22.81	22.47	15.25	32.31	36.08	38.29	38.14
MAX	39.43	36.71	---	34.91	---	35.66	29.25	25.51	32.31	36.08	38.33	39.04



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Hendry County

Key to site locations on figure # 16

HENDRY COUNTY

Index Number	Site Number	Well Name	Page Number
1	263845081260701	HE 555	245
2	263845081260702	HE 556	246
3	264235081310601	HE 557	253
4	264235081310602	HE 558	254
5	263930081301501	HE 559	248
6	263930081301502	HE 560	249
7	263930081301503	HE 569	250
8	263845081260703	HE 851	247
9	263035081073501	HE 855	238
10	263035081073502	HE 856	239
11	262735081044602	HE 859	237
12	262735081044601	HE 860	236
13	261735080534001	HE 861	228
14	261735080534002	HE 862	229
15	262214081113001	HE 1042	232
16	261746081061803	HE 1062	230
17	261746081061804	HE 1063	231
18	264046081022801	HE 1068	251
19	264046081022802	HE 1069	252
20	263840081203901	HE 1076	244
21	263839081203901	HE 1077	243
22	263629080565701	HE 1135	240
23	263629080565702	HE 1136	241
24	263629080565703	HE 1137	242
25	262602080565001	HE 1138	233
26	262602080565002	HE 1139	234
27	262602080565003	HE 1140	235

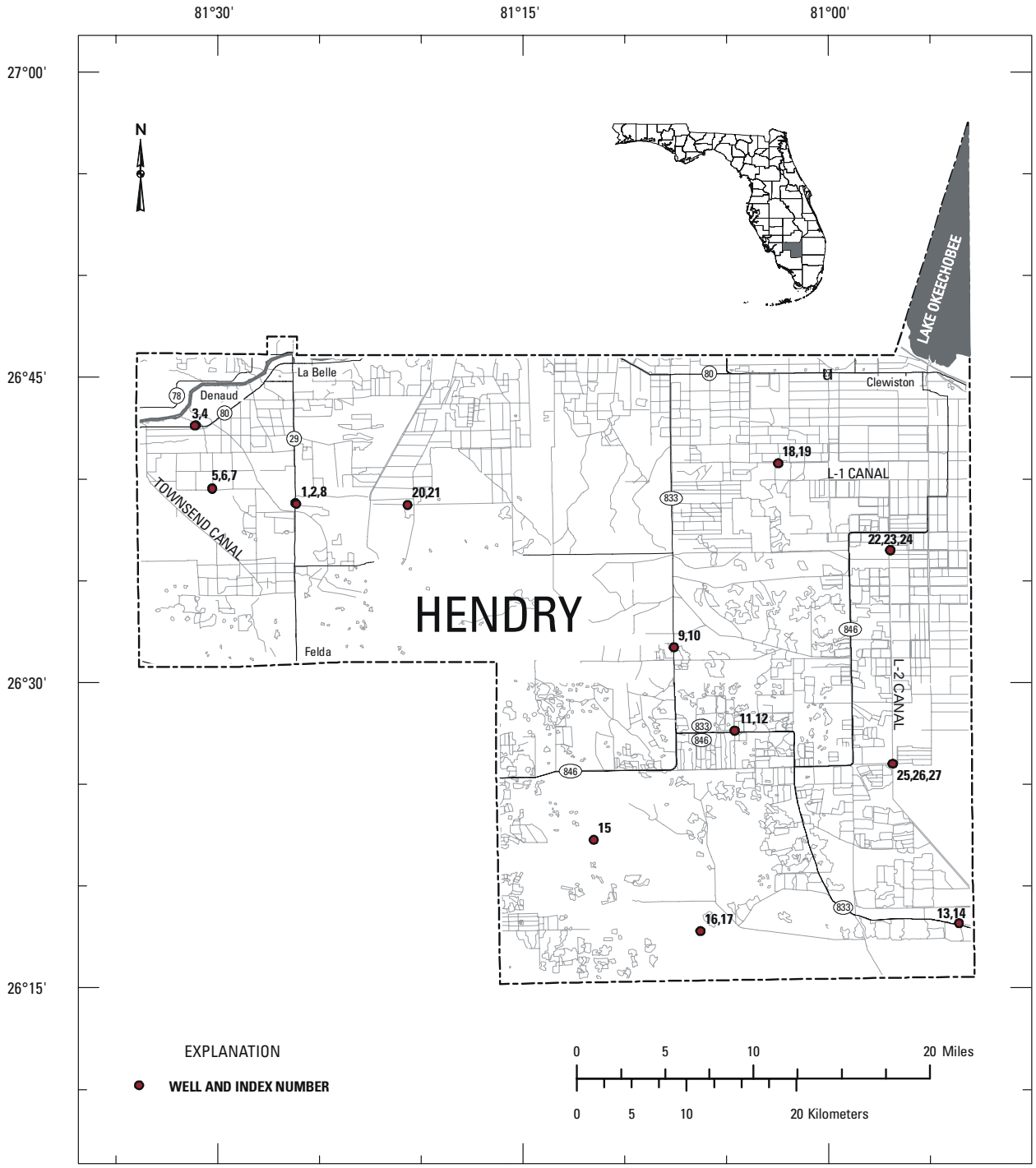


Figure 16. Location of wells in Hendry County

HENDRY COUNTY

WELL NUMBER.--261735080534001. Local Number HE 861. USGS Observation Well near Immokalee, FL.

LOCATION.--Lat 26°18'09", long 80°53'35", in NW $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.24, T.48 S., R.34 E., Hydrologic Unit 03090202, 35 ft south of County Road 833, 0.75 mi west of the Broward County line and 5.2 mi east of the Big Cypress Forest Office.

AQUIFER.--Tamiami formation, limestone aquifer of the Pliocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 4 in., depth 70 ft, cased to 37 ft, open hole 37 to 70 ft.

INSTRUMENTATION.--Satellite data collection platform with pressure transducer. (Corrected).

DATUM.--Measuring point: Top of recorder shelf, 17.96 ft above National Geodetic Vertical Datum of 1929. From October 1987 to January 25, 19994, measuring point was top of casing, 17.20 ft above NGVD. Prior to October 1987 top of casing was incorrectly considered to be 17.78 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 14.4 ft above NGVD.

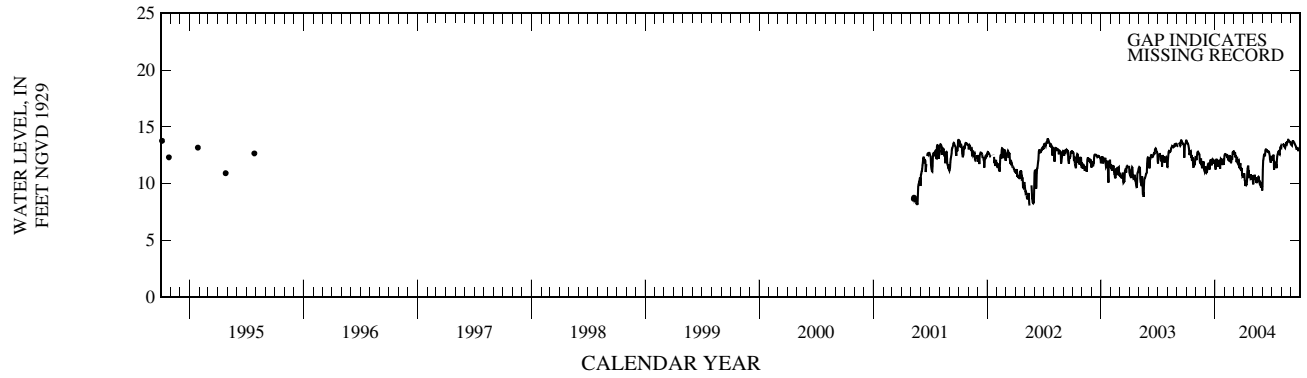
PERIOD OF RECORD.--September 1977 to November 1977 (monthly), December 1977 to September 1983 (daily), November 1985 to September 1994 (monthly), October 1994 to July 1995 (quarterly), May 2001 to current year.

REMARKS.--Measuring point elevations prior to October 1988 are based on a land-surface elevation estimated from a topographic map. The figures of water level as elevation, in feet NGVD, prior to September 1987 are in error. A -0.58 ft correction is required to correct the water-level data. See DATUM. Records of water levels prior to October 1985 are available in files of the U.S. Geological Survey. Station reconstructed January 25, 1994.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 15.75 ft NGVD, Aug. 24, 25, 1978 (present datum); lowest, 6.94 ft NGVD, May 31, 1981 (present datum).

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	13.56	12.76	11.06	12.11	12.52	12.69	10.27	10.70	12.41	12.48	13.49	13.73
10	12.76	12.65	11.75	11.47	12.23	11.89	9.89	10.34	12.93	11.57	13.29	13.64
15	12.86	12.04	11.76	11.53	12.18	11.72	11.51	10.48	12.94	11.69	13.57	13.34
20	12.17	11.36	11.85	12.06	12.36	11.34	10.74	10.57	12.79	12.66	13.63	13.10
25	11.49	11.89	11.96	11.75	12.19	11.12	10.82	10.01	12.08	12.58	13.75	12.96
EOM	12.30	11.07	11.84	12.41	12.82	10.68	10.56	9.40	12.35	13.16	13.44	13.24
MAX	13.80	12.81	12.09	12.41	12.83	12.84	11.51	10.71	12.98	13.23	---	13.75



HENDRY COUNTY—Continued

WELL NUMBER.--261735080534002. Local Number HE 862.

LOCATION.--Lat 26°18'09", long 80°53'35", in NW $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.24, T.48 S., R.34 E., Hydrologic Unit 03090202, 35 ft south of County Road 833, 0.75 mi west of the Broward County line and 5.2 mi east of the Big Cypress Forest Office.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 11 ft, cased to 7 ft, 3 ft of screen.

INSTRUMENTATION.--Satellite data collection platform with pressure transducer. (Corrected).

DATUM.--Measuring point: Top of shelf, 17.13 ft above National Geodetic Vertical Datum of 1929. From October 1984 to October 1990, measuring point was incorrectly considered to be 17.71 ft above NGVD. Prior to October 1984, measuring point was incorrectly considered to be 17.69 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 14.4 ft above NGVD.

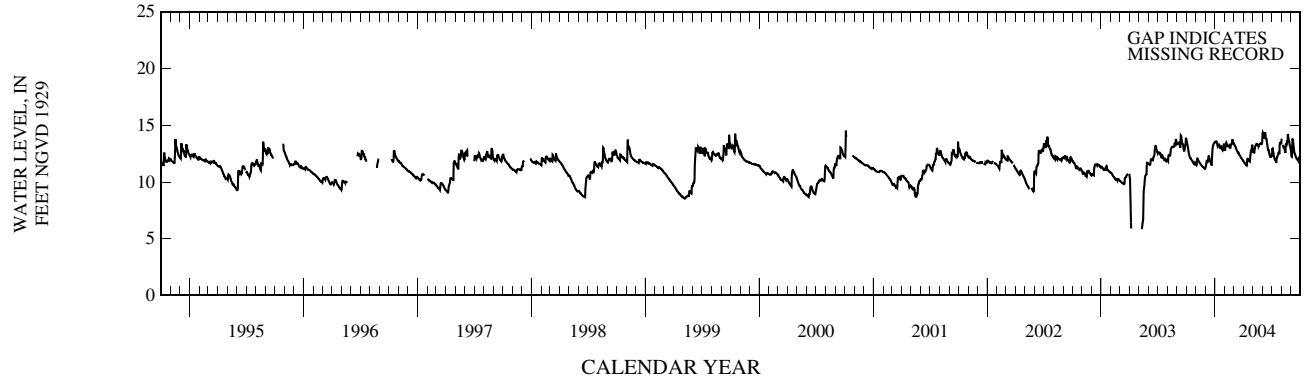
REMARKS.--The figures of water levels as elevation, in feet NGVD, published prior to September 1990 are in error. See DATUM. The well went dry in April 2003 because of construction-related dewatering in the immediate area.

PERIOD OF RECORD.--September 1977 to November 1977 (monthly), December 1977 to September 1983 (daily), October 1983 to September 1988 (monthly), October 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 14.62 ft NGVD, Aug. 23, 1978; lowest, 5.89 ft NGVD, Apr. 7, 2003. Well was dry during the period of Apr. 8 to May 10, 2003. See REMARKS.

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	13.19	12.06	11.83	13.58	13.41	13.16	11.65	12.52	14.23	12.62	13.26	13.76
10	12.37	11.81	12.09	13.18	13.17	12.85	11.49	13.18	14.29	12.03	12.93	12.80
15	12.07	11.59	11.97	13.16	13.19	12.56	11.98	13.29	13.42	11.70	13.37	12.29
20	11.81	11.41	11.53	13.09	13.21	12.34	11.83	13.20	12.79	12.35	13.42	11.99
25	11.60	11.28	13.16	12.77	13.71	12.11	12.71	13.39	12.28	12.43	13.58	11.98
EOM	11.57	11.15	13.46	13.26	13.44	11.87	13.04	13.49	12.29	13.32	12.68	12.27
MAX	13.67	12.06	13.46	13.58	13.71	13.39	13.28	13.49	14.37	13.47	---	13.76



HENDRY COUNTY—Continued

WELL NUMBER.--261746081061803. Local Number HE 1062.

LOCATION.--Lat 26°17'46", long 81°06'18", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.23, T.48 S., R.32 E., Hydrologic Unit 03090202, 20 ft south of Lemon Grove Road (BIA Highway 182), 2 mi west of Feeder Canal, 7 mi west of County Road 833, 32 mi south of Clewiston.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 2 in., depth 10 ft, cased to 5 ft, 5 ft of 2 in. screen.

INSTRUMENTATION.--Electronic data logger with pressure transducer. See REMARKS.

DATUM.--Measuring point: Top of 2 in. PVC casing 20.05 ft above National Geodetic Vertical Datum of 1929. From October 1987 to September 1995, measuring point was top of casing, 18.34 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 18.3 ft above NGVD.

REMARKS.--Well was reconstructed on May 30, 2003, to accommodate a pressure transducer that is connected to the data logger on HE-1063. See DATUM and INSTRUMENTATION.

PERIOD OF RECORD.--October 1987 to September 1994 (monthly), October 1994 to October 1995 (quarterly), June 2003 to current year.

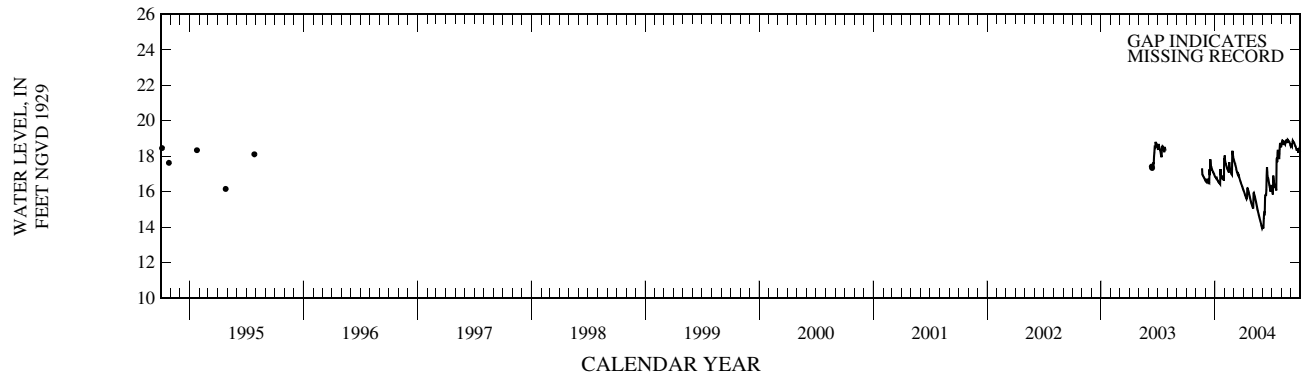
EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 18.94 ft NGVD, Aug. 21, 2004; lowest water level measured, 11.66 ft NGVD, June 25, 1990.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	---	18.54	---	---
10	---	---	---	---	---	---	---	---	---	18.22	---	---
15	---	---	---	---	---	---	---	---	17.34	18.48	---	---
20	---	---	---	---	---	---	---	---	18.20	18.40	---	---
25	---	---	---	---	---	---	---	---	18.71	18.40	---	---
EOM	---	---	---	---	---	---	---	---	18.52	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---

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	---	---	16.73	16.75	17.54	17.55	15.89	15.88	14.49	16.91	18.87	18.77
10	---	---	16.61	16.63	17.25	17.21	15.64	15.52	15.81	16.29	18.73	18.77
15	---	---	16.94	16.48	17.67	16.93	16.15	15.07	17.39	16.07	18.83	18.56
20	---	17.32	17.35	16.93	17.13	16.71	15.81	14.68	16.68	18.36	18.75	18.41
25	---	16.84	17.13	16.73	18.24	16.43	15.43	14.33	16.18	18.14	18.83	18.34
EOM	---	16.66	16.89	17.83	17.88	16.15	15.15	13.93	16.24	18.55	18.63	18.32
MAX	---	---	17.83	17.83	18.31	17.82	16.20	15.94	17.39	18.68	18.94	18.88



HENDRY COUNTY—Continued

WELL NUMBER.--261746081061804. Local Number HE 1063.

LOCATION.--Lat 26°17'46", long 81°06'18", in NW $^1/_4$ NW $^1/_4$ sec.23, T.48 S., R.32 E., Hydrologic Unit 03090202, 20 ft south of Lemon Grove Road (BIA Highway 182), 2 mi west of Feeder Canal, 7 mi west of County Road 833, 32 mi south of Clewiston.

AQUIFER.--Tamiami formation, limestone aquifer of the Miocene Age, Geologic Unit 122 TMIMN.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 2 in., depth 123 ft, cased to 78 ft, 45 ft of 2 in. screen.

INSTRUMENTATION.--Electronic data logger with pressure transducer. See REMARKS.

DATUM.--Measuring point: Top of 2 in. PVC casing 22.31 ft above National Geodetic Vertical Datum of 1929. From October 1987 to September 1995, measuring point was top of casing, 18.42 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 18.3 ft above NGVD.

REMARKS.--Well was reconstructed on May 30, 2003, to accommodate electronic data logger and pressure transducer. Data logger is also connected to the pressure transducer for well HE-1062. See DATUM and INSTRUMENTATION.

PERIOD OF RECORD.--October 1987 to September 1994 (monthly), October 1994 to October 1995 (quarterly), June 2003 to current year.

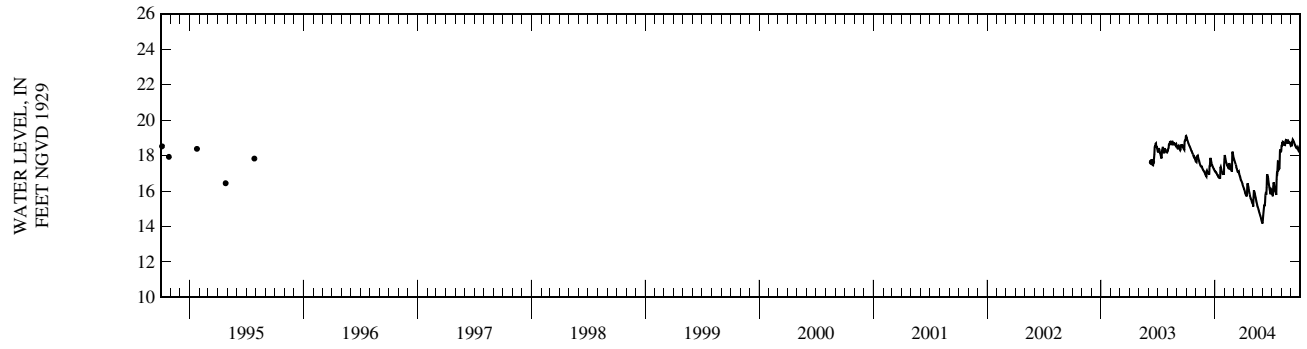
EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 19.11 ft NGVD, Sept. 30, 2003; lowest water level measured, 12.72 ft NGVD, May 24, 1990.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	---	18.37	18.42	18.55
10	---	---	---	---	---	---	---	---	---	18.05	18.77	18.34
15	---	---	---	---	---	---	---	---	17.46	18.28	18.66	18.59
20	---	---	---	---	---	---	---	---	18.07	18.28	18.67	18.47
25	---	---	---	---	---	---	---	---	18.70	18.31	18.64	18.78
EOM	---	---	---	---	---	---	---	---	18.34	18.18	18.54	19.11
MAX	---	---	---	---	---	---	---	---	---	18.45	18.79	19.11

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	18.84	17.99	17.12	17.03	17.67	17.61	16.01	16.00	14.96	16.25	18.78	18.81
10	18.58	17.74	17.05	16.87	17.41	17.31	15.76	15.63	15.77	16.12	18.60	18.75
15	18.37	17.45	17.43	16.74	17.58	17.10	16.36	15.20	16.88	15.78	18.86	18.52
20	18.14	17.36	17.58	17.27	17.27	16.84	15.89	14.89	16.57	17.67	18.68	18.46
25	17.93	17.14	17.35	16.97	18.10	16.57	15.57	14.59	15.97	17.28	18.76	18.38
EOM	17.70	16.97	17.13	17.80	17.89	16.27	15.32	14.22	16.06	18.24	18.61	18.43
MAX	19.07	18.00	17.87	17.80	18.22	17.84	16.43	16.00	16.95	18.35	18.86	18.91



HENDRY COUNTY—Continued

WELL NUMBER.--262214081113001. Local Number HE 1042.

LOCATION.--Lat 26°22'16", long 80°11'32", in NE $^1/_4$ NE $^1/_4$ sec.26, T.47 S., R.31 E., Hydrologic Unit 03090202, near windmill 325 ft east of dirt path, 5 mi east of County Road 858, 11 mi east of State Road 29.

AQUIFER.--Tamiami formation, limestone aquifer of the Miocene Age, Geologic Unit 122 TMIMN.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 2 in., depth 80 ft, cased to 40 ft, 40 ft of 2 in. screen.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 25.57 ft above National Geodetic Vertical Datum of 1929. Prior to July 2003, measuring point was 23.11 ft above NGVD.

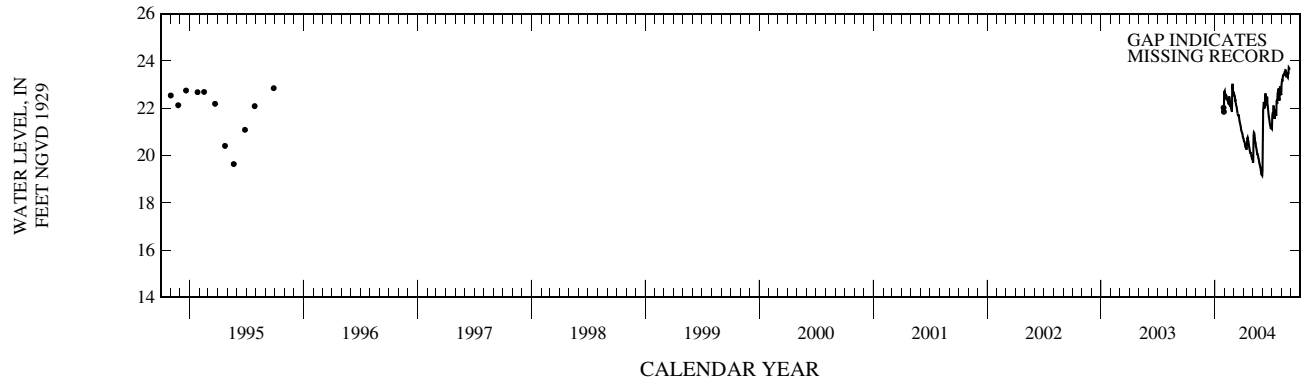
LAND-SURFACE DATUM.--Land surface is approximately 23.4 ft above NGVD.

PERIOD OF RECORD.--October 1987 to September 1995, January 2004 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 23.91 ft NGVD, Oct. 7, 1992; lowest, 18.02 ft NGVD, Apr. 23, 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	---	---	---	---	22.52	22.33	20.54	20.96	22.27	21.82	23.34	---
10	---	---	---	---	22.33	22.07	20.28	20.52	22.63	21.55	23.48	---
15	---	---	---	---	22.50	21.70	20.70	20.06	22.46	21.68	23.51	---
20	---	---	---	---	22.07	21.41	20.32	19.82	21.80	22.69	23.32	---
25	---	---	---	---	23.00	21.05	20.06	19.49	21.30	22.32	23.71	---
EOM	---	---	---	22.70	22.61	20.77	19.83	19.15	21.15	22.55	---	---
MAX	---	---	---	---	23.00	22.64	20.76	20.98	22.63	22.89	---	---



HENDRY COUNTY—Continued

WELL NUMBER.--262602080565001. Local Number HE 1138.

LOCATION.--Lat 26°26'01", long 80°56'50", in SW $\frac{1}{4}$SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.33, T.46 S., R.34 E., Hydrologic Unit 03090202, 2 mi east of County Road 846 as road turns north, and 10 mi east of County Road 833.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 20 ft (measured).

INSTRUMENTATION.--Electronic data logger with pressure transducer.

DATUM.--Measuring point: Top of casing, 23.84 ft above National Geodetic Vertical Datum of 1929.

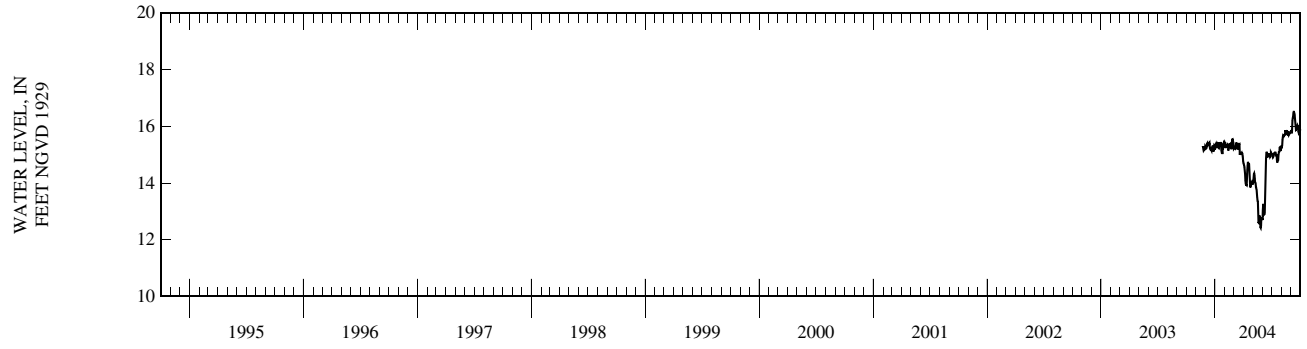
LAND-SURFACE DATUM.--Land surface is approximately 22.3 ft above NGVD.

PERIOD OF RECORD.--November 2003 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 16.51 ft NGVD, Sept. 9, 10, 2004; lowest, 12.42 ft NGVD, May 26, 2004.

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	---	---	15.27	15.31	15.36	15.26	14.44	14.33	13.01	14.92	15.61	16.19
10	---	---	15.35	15.44	15.36	15.40	13.93	13.97	14.06	15.05	15.69	16.51
15	---	---	15.25	15.33	15.34	15.18	14.74	13.47	15.07	14.94	15.78	16.00
20	---	---	15.15	15.32	15.26	14.99	14.46	12.61	15.00	14.82	15.76	15.99
25	---	15.14	15.28	15.18	15.53	15.05	13.92	12.44	14.92	15.11	15.72	15.78
EOM	---	15.29	15.17	15.39	15.35	14.76	13.97	12.76	15.03	15.28	15.77	15.89
MAX	---	---	15.41	15.44	15.54	15.40	14.74	14.33	15.10	15.28	15.86	16.51



HENDRY COUNTY—Continued

WELL NUMBER.--262602080565002. Local Number HE 1139.

LOCATION.--Lat 26°26'01", long 80°56'50", in SW ¼ SW ¼ SW ¼ sec.33, T.46 S., R.34 E., Hydrologic Unit 03090202, 2 mi east of County Road 846 as road turns north, and 10 mi east of County Road 833.

AQUIFER.--Lower Tamiami aquifer of the Miocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 84 ft (measured).

INSTRUMENTATION.--Electronic data logger with pressure transducer.

DATUM.--Measuring point: Top of casing, 23.87 ft above National Geodetic Vertical Datum of 1929.

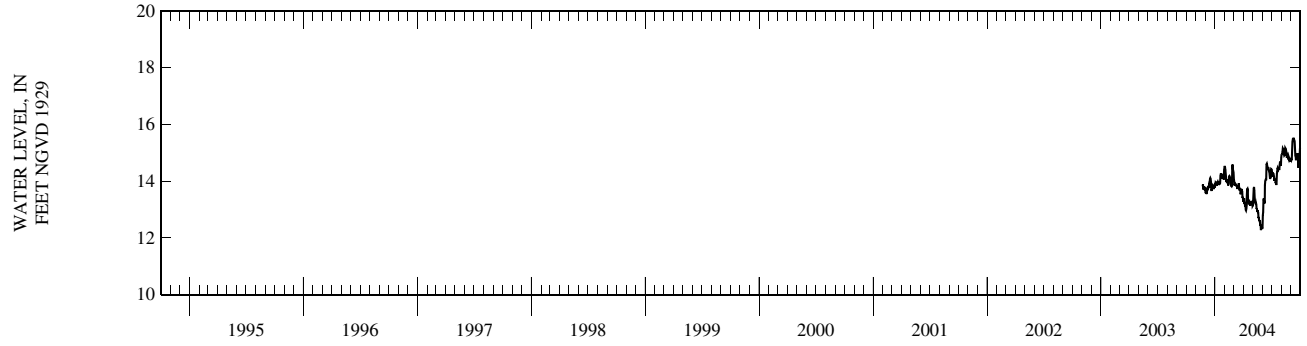
LAND-SURFACE DATUM.--Land surface is approximately 22.4 ft above NGVD.

PERIOD OF RECORD.--November 2003 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 15.53 ft NGVD, Sept. 9, 2004; lowest, 12.28 ft NGVD, May 27, 2004.

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	---	---	13.58	13.95	14.15	13.86	13.27	13.80	13.36	14.28	15.16	15.39
10	---	---	13.75	13.98	13.97	13.83	13.04	13.27	14.00	14.06	14.91	15.46
15	---	---	13.99	13.90	14.18	13.82	13.68	12.93	14.61	13.87	15.12	14.89
20	---	---	13.70	14.25	13.92	13.66	13.18	12.74	14.47	14.47	14.87	14.86
25	---	13.78	13.85	14.12	14.52	13.66	13.28	12.44	14.08	14.40	14.75	14.85
EOM	---	13.72	13.78	14.46	14.30	13.28	13.13	12.32	14.42	14.84	14.70	15.18
MAX	---	---	14.11	14.46	14.59	14.07	13.74	13.80	14.61	14.84	15.17	15.53



HENDRY COUNTY—Continued

WELL NUMBER.--262602080565003. Local Number HE 1140.

LOCATION.--Lat 26°26'01", long 80°56'50", in SW ¼ SW ¼ SW ¼ sec.33, T.46 S., R.34 E., Hydrologic Unit 03090202, 2 mi east of County Road 846 as road turns north, and 10 mi east of County Road 833.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 84 ft (measured).

INSTRUMENTATION.--Electronic data logger with pressure transducer.

DATUM.--Measuring point: Top of casing, 23.36 ft above National Geodetic Vertical Datum of 1929.

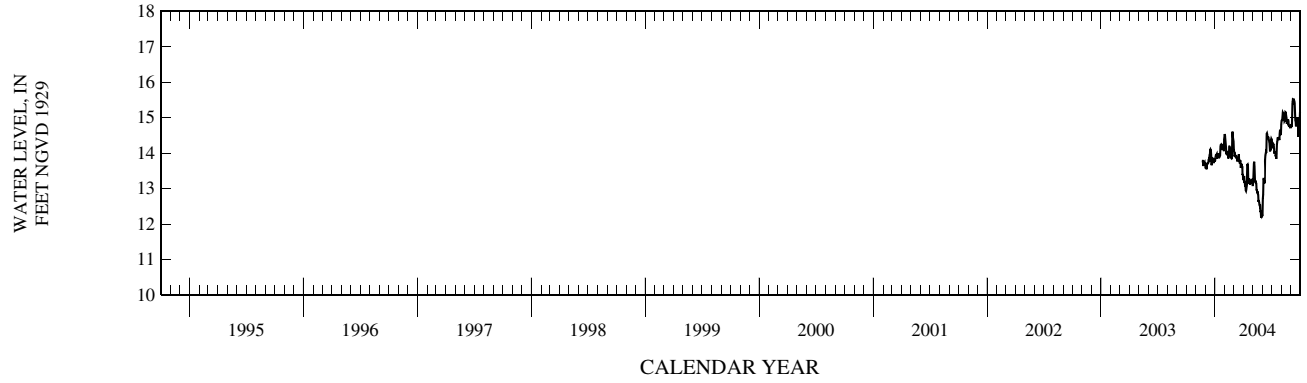
LAND-SURFACE DATUM.--Land surface is approximately 21.9 ft above NGVD.

PERIOD OF RECORD.--November 2003 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 15.54 ft NGVD, Sept. 9, 2004; lowest, 12.18 ft NGVD, May 27, 2004.

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	---	---	13.57	13.95	14.16	13.89	13.22	13.76	13.28	14.26	15.15	15.40
10	---	---	13.73	13.99	13.98	13.86	12.99	13.23	13.95	14.04	14.90	15.48
15	---	---	13.97	13.89	14.19	13.85	13.64	12.87	14.56	13.84	15.12	14.90
20	---	---	13.70	14.25	13.95	13.71	13.14	12.68	14.44	14.45	14.87	14.88
25	---	13.71	13.85	14.12	14.55	13.63	13.25	12.34	14.05	14.37	14.75	14.83
EOM	---	13.71	13.76	14.46	14.33	13.24	13.10	12.23	14.39	14.81	14.71	15.16
MAX	---	---	14.11	14.46	14.61	14.09	13.69	13.76	14.56	14.81	15.16	15.54



HENDRY COUNTY—Continued

WELL NUMBER.--262735081044601. Local Number HE 860.

LOCATION.--Lat 26°27'37", long 81°04'36", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.24, T.46 S., R.33 E., Hydrologic Unit 03090204, 20 ft north of County Road 833, 3 mi east of County Road 846, and 23 mi east of Immokalee.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 14 ft, cased to 9 ft, 5 ft of screen.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of casing, 29.33 ft above National Geodetic Vertical Datum of 1929. From September 1977 to September 1987, measuring point was incorrectly considered to be 27.70 ft above NGVD. See REMARKS.

REMARKS.--Figures of water level as elevation, in feet NGVD, published for the period September 1977 to September 1987 are in error. A correction of +1.63 ft is required to correct this water-level data. Correction is based on an elevation survey completed on September 7, 1988. The station datum used for the period September 1977 to September 1987 was also incompletely described in Water Resources Data Reports, for the 1993 to 1995 water years. This error would suggest that the measuring point elevation used from September 1977 to September 1987 was 28.03 ft, rather than the measuring point elevation of 27.70 ft which had been used. See DATUM. Well was also used for salinity monitoring from February 1978 to April 1993. Chloride and conductivity profiles are available in the files of the U.S. Geological Survey. Land-surface datum has been corrected based on field observations. Because the correction does not affect the measuring point elevation from preceding years are unaffected. Records of water levels prior to November 1985 are available in the files of the Geological Survey.

LAND-SURFACE DATUM.--Land surface is approximately 26.9 ft above NGVD. (Corrected).

PERIOD OF RECORD.--September 1977 to September 1979, November 1985 to September 1994 (monthly), October 1994 to September 1995 (quarterly), May 2003 to current year.

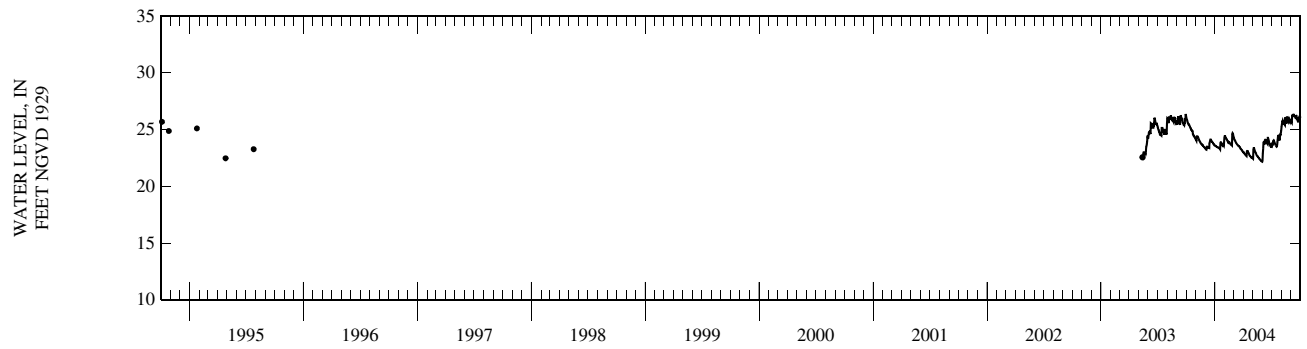
EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 26.38 ft NGVD, Sept. 8, 2004; lowest water level measured, 21.04 ft NGVD, May 24, 1990.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	24.83	24.83	25.57	26.17
10	---	---	---	---	---	---	---	---	25.52	24.52	26.04	25.50
15	---	---	---	---	---	---	---	22.51	25.10	25.14	25.85	25.98
20	---	---	---	---	---	---	---	22.92	25.65	24.77	25.74	25.59
25	---	---	---	---	---	---	---	23.47	25.51	24.81	25.95	25.56
EOM	---	---	---	---	---	---	---	24.24	25.36	25.56	25.50	26.21
MAX	---	---	---	---	---	---	---	---	26.04	25.56	26.24	26.37

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	25.67	24.40	23.46	23.51	24.23	24.04	22.84	23.36	23.89	23.94	25.80	26.32
10	25.40	24.16	23.39	23.44	23.98	23.76	22.68	22.97	24.10	23.80	25.48	26.24
15	25.11	23.87	23.85	23.34	23.90	23.58	23.10	22.66	23.81	23.54	25.72	26.05
20	24.87	23.71	24.04	23.88	23.71	23.45	22.77	22.50	24.17	24.13	25.81	25.96
25	24.42	23.52	23.84	23.60	24.58	23.25	22.57	22.32	23.63	24.12	25.83	25.89
EOM	24.14	23.38	23.59	24.31	24.40	23.03	22.47	22.17	23.74	24.95	25.75	26.03
MAX	26.04	24.40	24.11	24.31	24.68	24.31	23.12	23.36	24.27	24.95	26.15	26.38



HENDRY COUNTY—Continued

WELL NUMBER.--262735081044602. Local Number HE 859.

LOCATION.--Lat 26°27'35", long 81°04'46", in SE ¼ SE ¼ sec.24, T.46 S., R.32 E., Hydrologic Unit 03090204, 20 ft north of County Road 833, 3 mi east of County Road 846, and 23 mi east of Immokalee.

AQUIFER.--Tamiami formation, limestone aquifer of the Miocene Age, Geologic Unit 122 TMIN.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 4 in., depth 59 ft, cased to 58 ft, open hole 58 to 59 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of casing, 29.10 ft above National Geodetic Vertical Datum of 1929. From September 1977 to September 1987, measuring point was incorrectly considered to be 27.80 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 26.6 ft above NGVD. (Corrected). See REMARKS.

REMARKS.--Station was surveyed during the 1988 water year and the land-surface datum and height of the measuring point were corrected. The figures of water levels as elevation, in feet NGVD, from September 1977 to September 1987 are in error. A correction of +1.30 ft is required to correct this water-level data. Well was also used for salinity monitoring from February 1978 to April 1993. Chloride and conductivity profiles are available in the files of the U.S. Geological Survey. Records of water levels prior to November 1985 are available in the files of the U.S. Geological Survey. See DATUM and PERIOD OF RECORD.

PERIOD OF RECORD.--September 1977 to September 1979, November 1985 to September 1994 (monthly), October 1994 to September 1995 (quarterly), May 2003 to current year. See REMARKS.

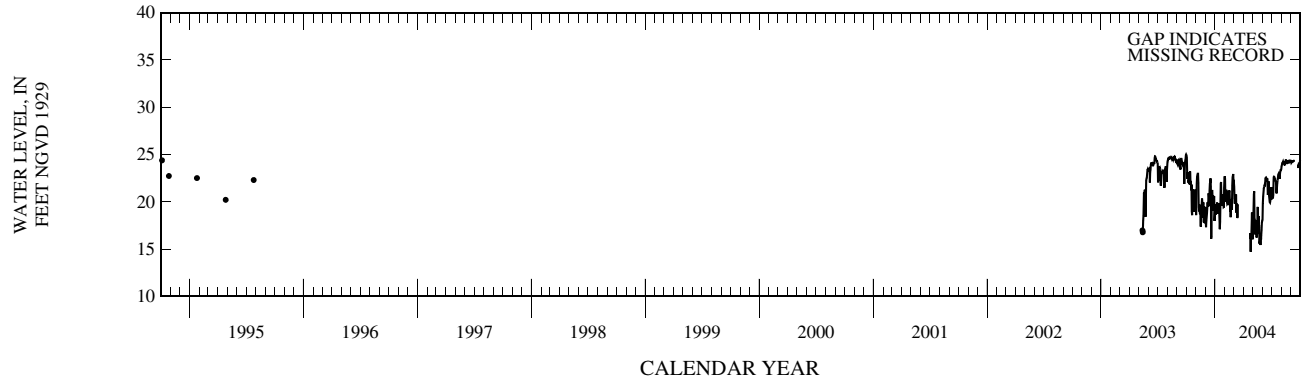
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.19 ft NGVD, Aug. 30, 1988; lowest daily maximum water level, 15.44 ft NGVD, May 25, 2004.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	23.46	23.52	24.53	24.43
10	---	---	---	---	---	---	---	---	24.10	21.87	24.67	23.72
15	---	---	---	---	---	---	---	18.01	23.90	23.08	24.65	24.55
20	---	---	---	---	---	---	---	21.15	24.11	23.16	24.62	23.93
25	---	---	---	---	---	---	---	22.27	24.58	23.56	24.74	23.25
EOM	---	---	---	---	---	---	---	23.34	24.16	23.61	24.21	25.01
MAX	---	---	---	---	---	---	---	---	24.80	24.06	24.76	25.01

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	23.11	22.85	18.37	19.35	20.82	20.43	---	21.12	21.40	20.72	24.18	24.31
10	22.19	19.01	20.04	18.76	19.87	19.66	---	17.82	22.46	22.54	23.96	24.27
15	22.21	19.03	21.93	18.04	21.22	19.74	---	16.59	22.36	21.16	24.39	---
20	20.79	20.35	16.38	22.09	18.37	---	---	17.28	21.99	22.47	24.29	---
25	18.93	17.89	20.47	20.30	21.76	---	16.47	15.44	19.93	22.66	24.34	23.94
EOM	20.06	18.65	18.66	22.47	22.01	---	16.04	17.99	20.26	23.43	24.26	24.42
MAX	24.92	22.98	22.48	22.47	22.94	---	---	21.12	22.58	23.43	24.39	---



HENDRY COUNTY—Continued

WELL NUMBER.--263035081073501. Local Number HE 855.

LOCATION.--Lat 26°31'42", long 81°07'35", in SW ¼ NW ¼ sec.34, T.45 S., R.32 E., Hydrologic Unit 03090202, 17 ft east of County Road 833, .3 mi south of Dobley Grade Road and 19 mi northeast of Immokalee.

AQUIFER.--Tamiami formation of the Miocene Age, Geologic Unit 122 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 90 ft, cased to 70 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of casing, 30.13 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 27.6 ft above NGVD.

REMARKS.--Well was also used for salinity monitoring from February 1978 to April 1993. Chloride and conductivity profiles are available in the files of the U.S. Geological Survey. The well was originally open to the aquifer from 70 to 90 ft. The well has become obstructed at a depth of 77 ft but is in hydrologic communication with the aquifer. Records of water levels prior to September 1980 are available in the files of the U.S. Geological Survey.

PERIOD OF RECORD.--January 1978 to November 1984 (daily), March 1984 to September 1994 (monthly), October 1994 to September 1995 (quarterly), May 2003 to current year.

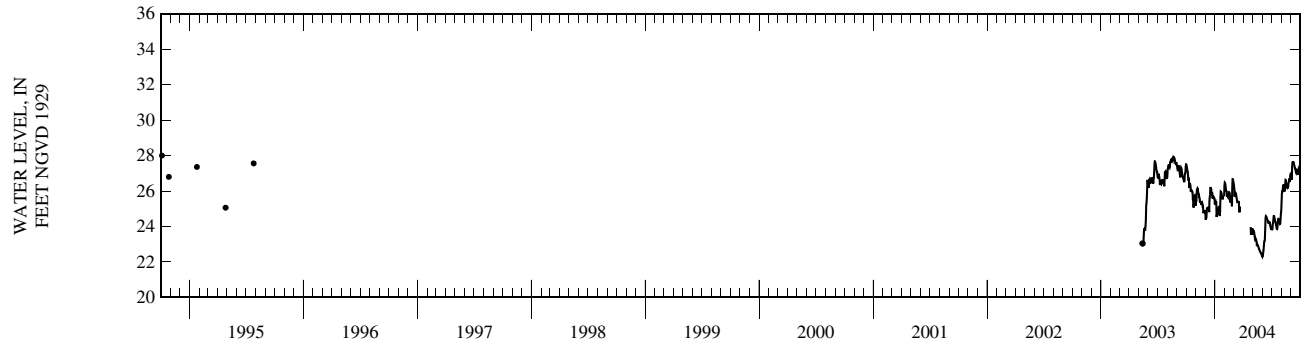
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.28 ft NGVD, Aug. 30, 1988; lowest daily maximum water level, 18.58 ft NGVD, May 1, 1981.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	26.50	26.87	27.46	27.38
10	---	---	---	---	---	---	---	---	26.63	26.42	27.61	26.97
15	---	---	---	---	---	---	---	23.01	26.43	26.45	27.78	27.29
20	---	---	---	---	---	---	---	23.89	27.07	26.53	27.90	26.78
25	---	---	---	---	---	---	---	25.18	27.46	27.07	27.75	26.64
EOM	---	---	---	---	---	---	---	26.47	26.92	26.68	27.51	27.50
MAX	---	---	---	---	---	---	---	---	27.67	27.10	27.90	27.50

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	27.09	26.09	24.81	25.37	26.02	25.90	---	23.71	22.86	24.22	26.13	27.62
10	26.17	25.81	25.03	24.67	25.71	25.62	---	23.33	23.96	24.44	26.19	27.50
15	25.97	25.39	25.64	24.85	25.93	25.39	---	22.98	24.48	24.06	26.60	27.17
20	25.97	25.35	26.06	25.95	25.52	24.98	---	22.78	24.24	24.17	26.30	27.19
25	25.42	24.75	25.69	25.60	26.26	---	23.54	22.59	24.14	24.30	26.62	27.04
EOM	25.19	24.77	25.26	26.29	26.45	---	23.85	22.34	23.86	24.87	26.91	27.20
MAX	27.49	26.14	26.18	---	26.67	---	---	23.77	24.59	24.87	26.94	27.64



HENDRY COUNTY—Continued

WELL NUMBER.--263035081073502. Local Number HE 856.

LOCATION.--Lat 26°31'42", long 81°07'35", in SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.34, T.45 S., R.32 E., Hydrologic Unit 03090202, 17 ft east of County Road 833, .3 mi south of Dobley Grade Road and 19 mi northeast of Immokalee.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 11 ft, screened 6 to 11 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of casing, 29.65 ft above National Geodetic Vertical Datum of 1929. Prior to March 1985 measuring point was top of shelf, 29.87 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 27.3 ft above NGVD.

REMARKS.--Station was reconstructed in March 1985 when the water level recorder was destroyed. Figures of water levels as elevation, in feet NGVD published prior to January 27, 1982 are in error. Records of water levels prior to September 1980 are available in the files of the U.S. Geological Survey. Well was also used for salinity monitoring from February 1978 to April 1993, chloride and conductivity profiles are available in the files of the U.S. Geological Survey. See DATUM and PERIOD OF RECORD.

PERIOD OF RECORD.--August 1977 to November 1977 (intermittent), December 1977 to September 1978 (daily), October 1979 to November 1983 (daily), November 1983 to September 1994 (monthly), October 1994 to September 1995 (quarterly), May 2003 to current year. See PERIOD OF RECORD.

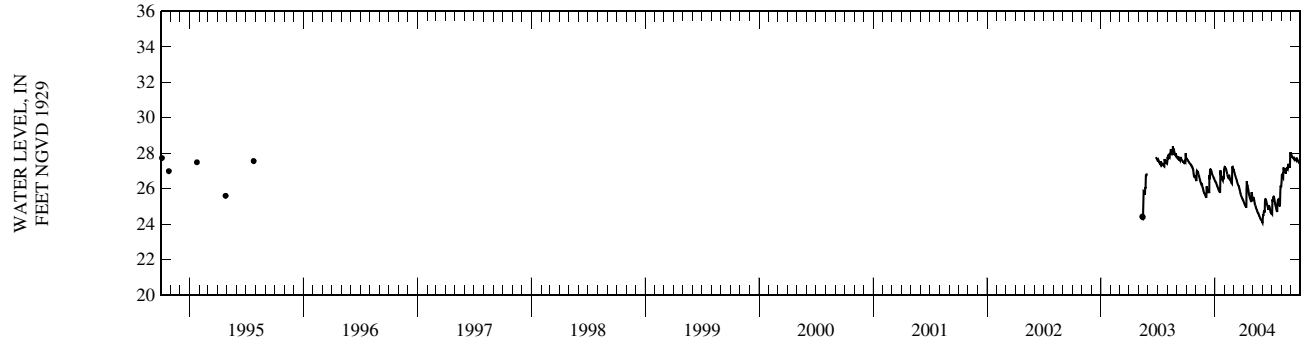
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.44 ft NGVD, Oct. 31, 1986; lowest daily maximum water level, 23.16 ft NGVD, May 24, 1990.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	---	27.52	27.91	27.77
10	---	---	---	---	---	---	---	---	---	27.38	27.97	27.61
15	---	---	---	---	---	---	---	24.36	---	27.42	27.98	27.66
20	---	---	---	---	---	---	---	25.76	---	27.31	28.15	27.53
25	---	---	---	---	---	---	---	26.76	---	27.56	28.00	27.49
EOM	---	---	---	---	---	---	---	---	27.62	27.41	27.83	27.78
MAX	---	---	---	---	---	---	---	---	---	27.67	28.39	28.01

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	27.62	26.98	26.13	26.31	27.11	26.81	25.12	25.42	24.67	25.43	26.62	27.80
10	27.47	26.75	25.89	26.07	26.72	26.52	24.93	25.02	25.40	25.29	27.10	27.66
15	27.36	26.39	26.54	25.85	26.79	26.21	26.09	24.73	25.17	24.86	26.84	27.62
20	27.23	26.23	27.01	26.73	26.45	25.93	25.61	24.54	24.82	25.28	27.18	27.71
25	26.75	25.87	26.73	26.51	27.22	25.61	25.31	24.32	24.82	25.14	27.25	27.51
EOM	26.55	25.67	26.47	27.18	27.09	25.35	25.47	24.13	24.59	26.14	27.92	27.38
MAX	27.72	27.01	27.10	27.18	27.23	27.07	26.43	25.48	25.41	26.18	28.06	27.94



HENDRY COUNTY—Continued

WELL NUMBER.--263629080565701. Local Number HE 1135.

LOCATION.--Lat 26°36'29", long 80°56'57", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.4, T.45 S., R.34 E., Hydrologic Unit 03090202, 100 ft east of L-2 Canal Service Road, 1.5 mi south of County Road 846, 15 mi east northeast of County Road 833.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 20 ft (measured).

INSTRUMENTATION.--Electronic data logger with pressure transducer.

DATUM.--Measuring point: Top of casing, 19.99 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 17.7 ft above NGVD.

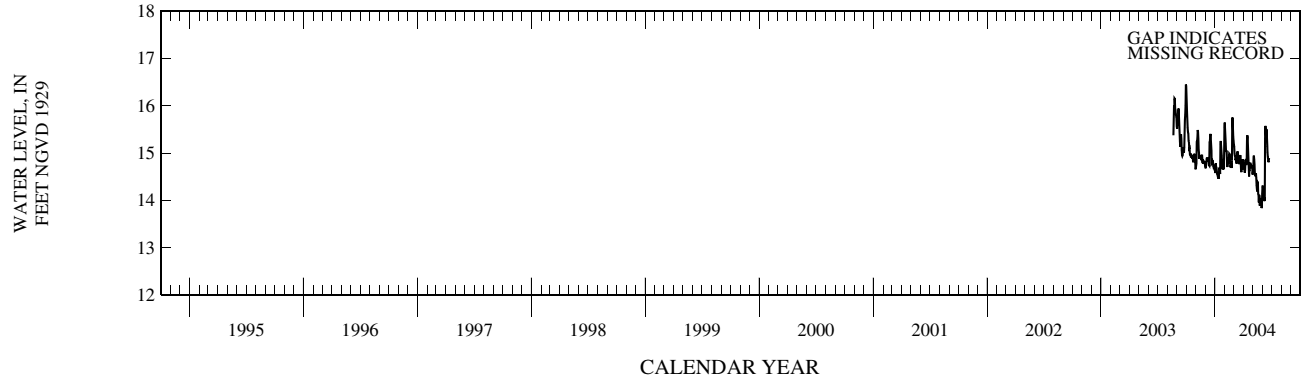
REMARKS.--The water-level data for the 2003 water year is available in the files of the U.S. Geological Survey.

PERIOD OF RECORD.--August 2003 to June 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 16.45 ft NGVD, Sept. 29, 2003; lowest, 13.84 ft NGVD, May 29, 2004.

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	15.54	15.32	14.88	14.70	15.03	14.94	14.59	14.87	13.99	---	---	---
10	15.10	15.01	14.88	14.60	14.77	14.78	14.75	14.51	15.58	---	---	---
15	14.93	14.93	15.25	14.70	14.99	14.92	15.17	14.19	15.30	---	---	---
20	14.93	14.97	15.05	15.17	14.72	14.80	14.63	13.96	14.81	---	---	---
25	14.93	14.81	14.80	14.68	15.74	14.60	14.73	14.01	---	---	---	---
EOM	14.66	14.74	14.63	15.54	15.26	14.85	14.55	14.15	---	---	---	---
MAX	16.20	15.49	15.41	15.54	15.74	15.19	15.38	14.95	---	---	---	---



HENDRY COUNTY—Continued

WELL NUMBER.--263629080565702. Local Number HE 1136.

LOCATION.--Lat 26°36'29", long 80°56'57", in SW ¼ SW ¼ NW ¼ sec.33, T.44 S., R.34 E., Hydrologic Unit 03090202, 100 ft east of L-2 Canal Service Road, 1.5 mi south of County Road 846, 15 mi east northeast of County Road 833.

AQUIFER.--Lower Tamiami aquifer of the Miocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 72 ft (measured).

INSTRUMENTATION.--Electronic data logger with pressure transducer.

DATUM.--Measuring point: Top of casing, 20.01 ft above National Geodetic Vertical Datum of 1929.

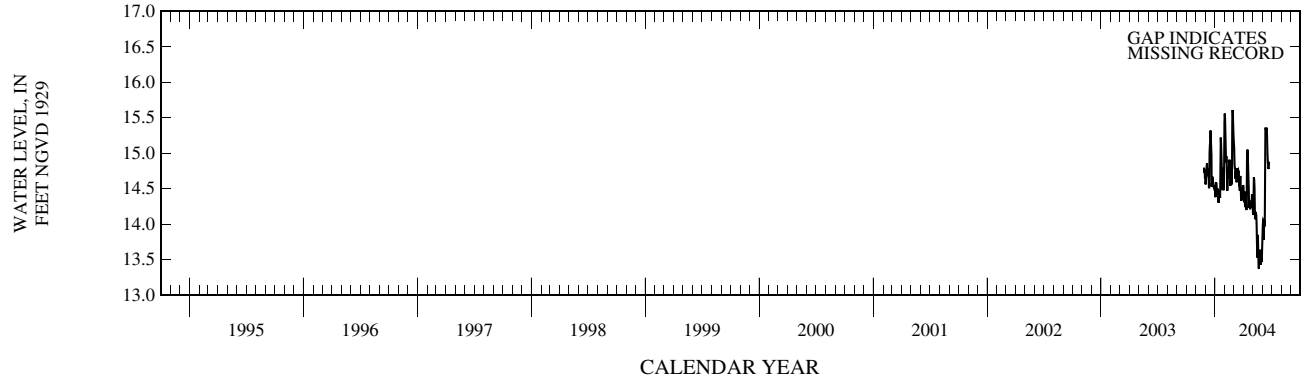
LAND-SURFACE DATUM.--Land surface is approximately 17.7 ft above NGVD.

PERIOD OF RECORD.--November 2003 to June 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 15.61 ft NGVD, Feb. 26, 2004; lowest, 13.37 ft NGVD, May 20, 2004.

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	---	---	14.82	14.57	14.87	14.78	14.36	14.62	13.78	---	---	---
10	---	---	14.72	14.50	14.61	14.59	14.20	14.16	15.35	---	---	---
15	---	---	15.11	14.45	14.89	14.76	14.91	13.53	15.27	---	---	---
20	---	---	14.97	15.14	14.58	14.47	14.34	13.37	14.78	---	---	---
25	---	---	14.61	14.53	15.44	14.33	14.24	13.58	---	---	---	---
EOM	---	14.66	14.47	15.43	15.22	14.55	14.32	13.72	---	---	---	---
MAX	---	---	15.32	15.43	15.61	15.14	15.04	14.66	---	---	---	---



HENDRY COUNTY—Continued

WELL NUMBER.--263629080565703. Local Number HE 1137.

LOCATION.--Lat 26°36'29", long 80°56'57", in NW $^1/_4$ NW $^1/_4$ NW $^1/_4$ sec.4, T.45 S., R.34 E., Hydrologic Unit 03090202, 100 ft east of L-2 Canal Service Road, 1.5 mi south of County Road 846, 15 mi east northeast of County Road 833.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 147 ft (measured).

INSTRUMENTATION.--Electronic data logger with pressure transducer.

DATUM.--Measuring point: Top of casing, 19.42 ft above National Geodetic Vertical Datum of 1929.

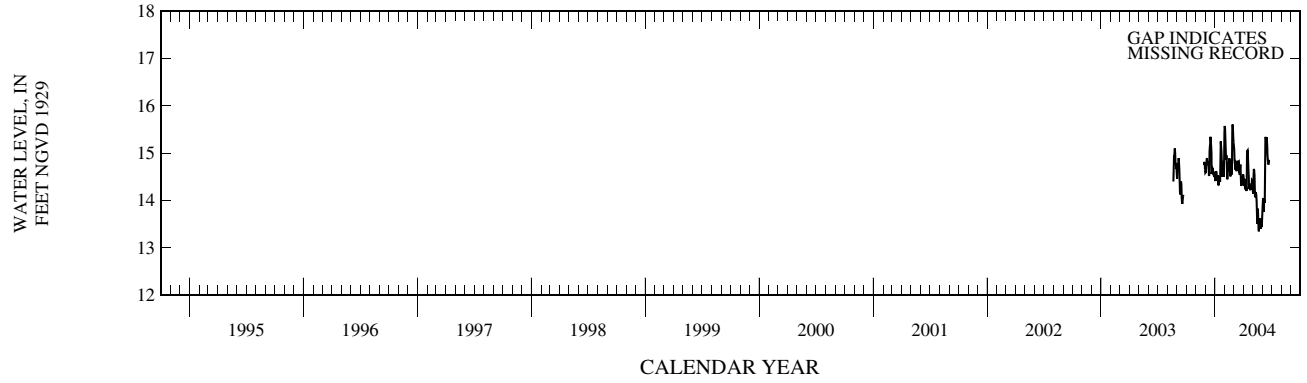
LAND-SURFACE DATUM.--Land surface is approximately 17.9 ft above NGVD.

PERIOD OF RECORD.--November 2003 to June 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 15.61 ft NGVD, Feb. 26, 2004; lowest, 13.35 ft NGVD, May 20, 2004.

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	---	---	14.87	14.60	14.87	14.80	14.36	14.63	13.76	---	---	---
10	---	---	14.75	14.53	14.60	14.62	14.20	14.16	15.32	---	---	---
15	---	---	15.14	14.47	14.87	14.81	14.93	13.51	15.25	---	---	---
20	---	---	15.00	15.16	14.56	14.54	14.36	13.35	14.76	---	---	---
25	---	---	14.64	14.55	15.44	14.31	14.25	13.56	---	---	---	---
EOM	---	14.69	14.50	15.44	15.23	14.55	14.34	13.69	---	---	---	---
MAX	---	---	15.35	15.44	15.61	15.15	15.06	14.67	---	---	---	---



HENDRY COUNTY—Continued

WELL NUMBER.--263839081203901. Local Number HE 1077.

LOCATION.--Lat 26°38'42", long 81°20'39", in NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.20, T.44 S., R.30 E., Hydrologic Unit 03090205, 600 ft south of Sears Road, 5 mi east of State Road 29, 9 mi southeast of La Belle.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 10 ft, cased to 5 ft, 5 ft of screen.

INSTRUMENTATION.--Electronic data logger with pressure transducer.

DATUM.--Measuring point: Top of casing, 30.20 ft above National Geodetic Vertical Datum of 1929. Prior to Mary 2003, measuring point was 30.26 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 27.5 ft above NGVD.

REMARKS.--Well used for salinity monitoring during the period of April 1988 through April 1993.

PERIOD OF RECORD.--January 1988 to September 1994 (monthly), October 1994 to September 1995 (quarterly), May 2003 to current year.

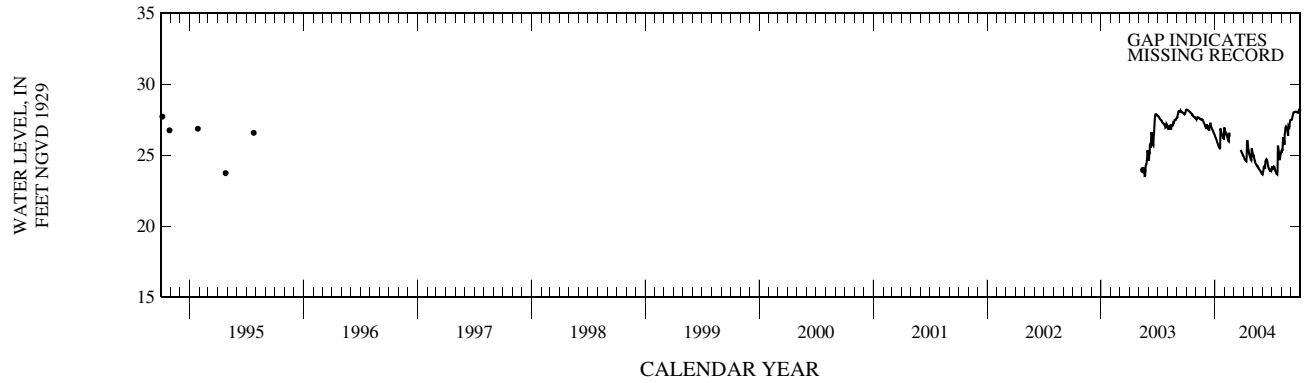
EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 28.23 ft NGVD, Sept. 26, 27, 30, 2004; lowest water level measured, 23.50 ft NGVD, May 30, 1989.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	25.16	27.69	27.02	28.07
10	---	---	---	---	---	---	---	---	26.27	27.50	27.00	28.08
15	---	---	---	---	---	---	---	23.97	25.84	27.37	27.03	28.08
20	---	---	---	---	---	---	---	23.54	26.97	27.23	27.21	27.99
25	---	---	---	---	---	---	---	24.33	27.89	27.02	27.48	27.89
EOM	---	---	---	---	---	---	---	25.01	27.79	27.08	27.63	28.21
MAX	---	---	---	---	---	---	---	---	27.89	27.76	27.63	28.21

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	28.19	27.67	27.18	26.11	26.54	---	24.72	24.79	24.20	24.07	25.92	27.70
10	28.09	27.63	26.91	25.80	26.20	---	24.57	24.42	24.55	24.09	25.75	28.02
15	28.00	27.55	27.01	25.51	26.58	---	25.70	24.22	24.66	23.75	26.93	28.07
20	27.86	27.52	26.98	26.69	---	---	25.03	24.06	24.17	25.62	26.70	28.01
25	27.71	27.34	26.73	26.28	---	25.26	24.69	23.88	23.90	24.82	27.03	28.01
EOM	27.59	27.07	26.41	26.91	---	24.98	25.20	23.67	24.02	25.24	27.50	28.23
MAX	28.22	27.67	27.23	26.91	---	---	26.06	25.04	24.72	25.62	27.50	28.23



HENDRY COUNTY—Continued

WELL NUMBER.--263840081203901. Local Number HE 1076.

LOCATION.--Lat 26°38'42", long 81°20'39", in NW $^1/_4$ NE $^1/_4$ sec.20, T.44 S., R.30 E., Hydrologic Unit 03090205, 500 ft south of Sears Road, 5.7 mi east of State Road 29, 9 mi southeast of La Belle.

AQUIFER.--Tamiami formation, shell-marl aquifer of the Miocene Age, Geologic Unit 122 TMIMR.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 6 in., depth 340 ft, cased to 300 ft, 40 ft of screen.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of casing, 30.10 ft above National Geodetic Vertical Datum of 1929. Prior to May 2003, measuring point was 27.86 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 27.6 ft above NGVD.

REMARKS.--Well also sampled for water quality during the 1988-1993 water years.

PERIOD OF RECORD.--January 1988 to September 1994 (monthly), October 1994 to September 1995 (quarterly), May 2003 to current year.

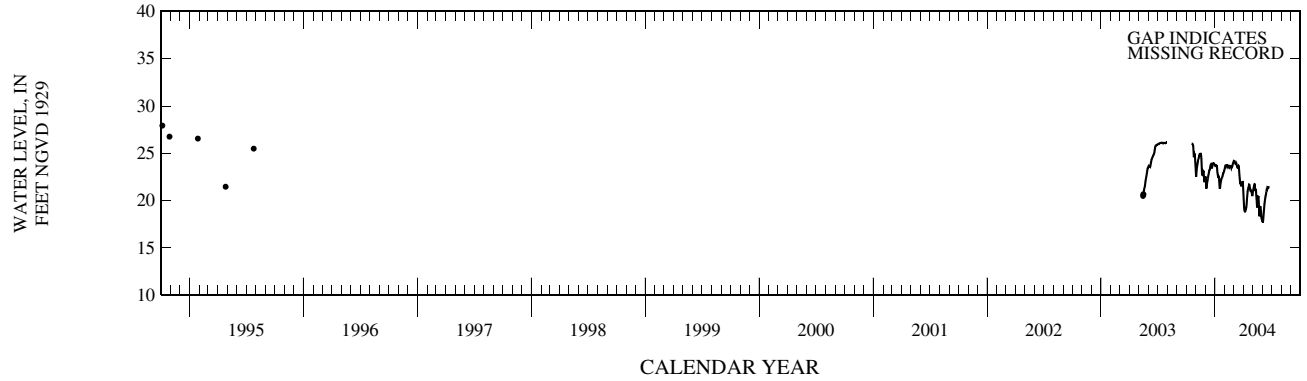
EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 28.09 ft NGVD, Sept. 29, 2004; lowest water level measured, 16.34 ft NGVD, May 23, 1990.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	23.66	26.01	---	---
10	---	---	---	---	---	---	---	---	24.12	26.09	---	---
15	---	---	---	---	---	---	---	20.49	24.63	26.11	---	---
20	---	---	---	---	---	---	---	21.34	25.02	26.08	---	---
25	---	---	---	---	---	---	---	22.46	25.82	26.09	---	---
EOM	---	---	---	---	---	---	---	23.50	25.89	---	---	---
MAX	---	---	---	---	---	---	---	---	25.89	---	---	---

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	---	23.82	21.56	23.70	23.71	23.94	18.90	21.62	18.85	---	---	---
10	---	24.62	22.63	22.67	23.74	23.81	19.34	21.17	20.37	---	---	---
15	---	24.95	23.30	21.62	23.47	23.63	21.18	19.27	21.11	---	---	---
20	26.00	22.77	23.81	22.12	23.57	22.29	21.67	19.69	21.37	---	---	---
25	24.58	23.06	23.86	22.64	23.62	21.50	20.99	19.33	---	---	---	---
EOM	23.01	22.35	23.79	23.20	24.07	21.20	20.71	18.04	---	---	---	28.09
MAX	---	24.95	23.95	23.70	24.07	24.19	21.68	21.72	---	---	---	---



HENDRY COUNTY—Continued

WELL NUMBER.--263845081260701. Local Number HE 555.

LOCATION.--Lat 26°38'47", long 81°26'09", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.21, T.44 S., R.29 E., Hydrologic Unit 03090205, at southeast corner of intersection of State Road 29 and Sears Road, and 3.6 mi west of Sears.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 270 ft, cased to 250 ft, screened 250 to 270 ft.

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

DATUM.--Measuring point: Top of casing, 32.83 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 30.3 ft above NGVD.

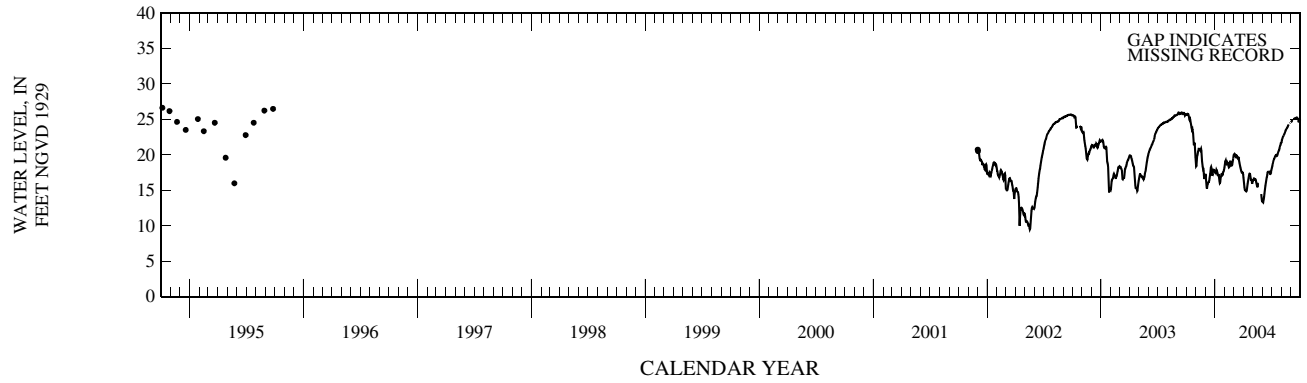
REMARKS.--Records of water levels prior to October 1980 are available in the files of the U.S. Geological Survey.

PERIOD OF RECORD.--January 1975 to October 1983 (daily), November 1983 to September 1995 (monthly), December 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.10 ft NGVD, Nov. 9, 1992; lowest daily maximum water level, 8.58 ft NGVD, May 27, 1981.

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	25.68	19.86	15.41	17.91	18.96	19.84	15.13	16.67	13.80	18.97	22.48	---
10	25.11	20.96	16.07	17.18	18.87	19.92	14.85	16.49	15.64	19.59	22.95	25.07
15	24.43	20.58	17.00	16.32	18.28	19.58	16.22	15.54	16.99	20.00	23.54	25.18
20	23.61	19.12	18.11	16.98	18.93	18.65	17.32	---	17.59	20.19	23.91	25.23
25	21.36	17.76	17.68	17.21	18.66	17.68	16.50	---	17.34	20.91	---	24.59
EOM	19.08	17.10	17.68	18.21	19.86	17.22	16.23	13.47	18.03	21.71	24.59	25.06
MAX	25.76	20.96	18.29	18.21	19.86	20.15	17.35	---	---	21.71	---	---



HENDRY COUNTY—Continued

WELL NUMBER.--263845081260702. Local Number HE 556.

LOCATION.--Lat 26°38'47", long 81°26'09", in NW $^1/_4$ NW $^1/_4$ sec.21, T.44 S., R.29 E., Hydrologic Unit 03090205, at southeast corner of intersection of State Road 29 and Sears Road, and 3.6 mi west of Sears.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 175 ft, cased to 135 ft, screened 135 to 155 ft.

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

DATUM.--Measuring point: Top of recorder shelf, 32.77 ft above National Geodetic Vertical Datum of 1929. From October 1986 to October 1991, measuring point was 32.83 ft above NGVD. From October 1979 to September 1986, measuring point was incorrectly considered to be 30.84 ft above NGVD. Prior to October 1979, measuring point was incorrectly considered to be 35.63 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 30.3 ft above NGVD.

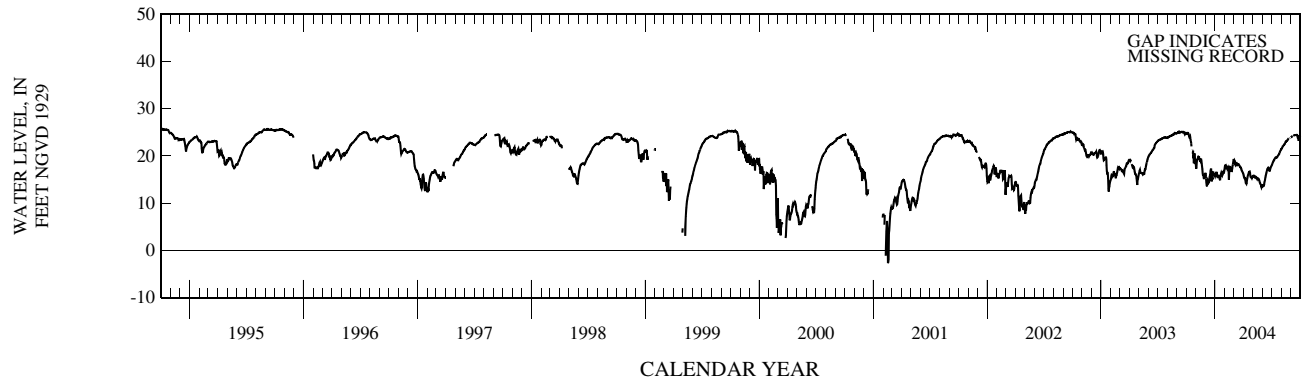
REMARKS.--Station reconstructed February 27, 1992. The figures of water levels as elevation, in feet NGVD, from October 1979 to September 1986 are estimated to require a correction of approximately +2 ft. The figures of water level as elevation, in feet NGVD, prior to October 1979 are estimated to require a correction of approximately -2 ft. See DATUM.

PERIOD OF RECORD.--October 1975 to December 1975 (monthly), January 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 25.99 ft NGVD, Sept. 25, 1995; lowest 2.67 ft below NGVD, Feb. 16, 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	24.77	19.31	13.79	16.63	17.60	18.22	15.36	15.78	13.65	18.79	21.99	---
10	24.04	19.97	14.45	15.33	17.35	18.35	14.11	15.62	15.46	19.34	22.44	24.38
15	23.17	18.87	15.80	15.30	16.89	18.28	15.83	15.10	16.86	19.66	23.02	24.43
20	---	17.77	16.24	16.21	17.16	17.85	16.65	15.05	17.22	20.00	23.31	24.35
25	18.44	15.51	16.44	16.13	17.39	17.13	15.48	14.07	17.09	20.67	---	23.19
EOM	18.35	16.12	15.87	17.05	19.16	16.35	15.58	13.80	17.94	21.40	23.92	24.17
MAX	---	19.97	17.14	17.05	19.16	19.30	16.67	15.84	17.94	21.40	---	---



HENDRY COUNTY—Continued

WELL NUMBER.--263845081260703. Local Number HE 851. USGS Observation Well near Sears, FL.

LOCATION.--Lat 26°38'45", long 81°26'07", in NW $^1/_4$ NW $^1/_4$ sec.21, T.44 S., R.29 E., Hydrologic Unit 03090205, southeast corner of intersection of State Road 29 and Sears Road, and 3.6 mi west of Sears.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 10 ft.

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

DATUM.--Measuring point: Top of casing, 32.26 ft above National Geodetic Vertical Datum of 1929. From October 1980 to September 1991, measuring point was 32.28 ft above NGVD. From October 1986 to September 1989, measuring point was top of shelf, 32.30 ft above NGVD. From October 1979 to September 1986, top of shelf was 30.45 ft above NGVD.

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

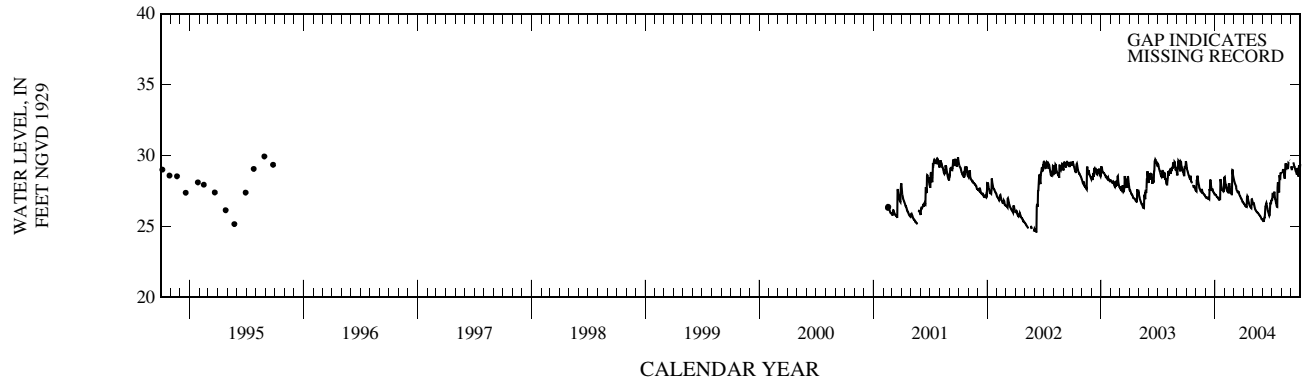
REMARKS.--Records of water levels prior to October 1979 are available in the files of the U.S. Geological Survey.

PERIOD OF RECORD.--October 1977 to October 1984 (daily), October 1984 to September 1995 (monthly), February 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 30.49 ft NGVD, Aug. 29, 1990; lowest daily maximum water level, 22.59 ft NGVD, May 26, 1981.

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	28.91	28.58	27.07	27.16	27.81	28.02	26.53	26.51	25.34	27.20	28.96	---
10	28.50	27.89	27.02	27.05	27.48	27.60	26.39	26.16	26.39	27.21	28.49	29.29
15	28.34	27.52	27.55	26.91	28.06	27.39	26.96	25.99	26.41	26.61	29.38	28.96
20	---	27.58	27.65	28.04	27.39	27.18	26.54	25.87	25.98	28.11	29.17	28.74
25	27.80	27.30	27.50	27.56	28.99	26.95	26.32	25.72	26.31	28.62	---	28.73
EOM	27.55	27.13	27.25	28.47	28.41	26.70	26.77	25.50	26.87	28.67	29.25	29.40
MAX	---	28.58	28.26	28.47	28.99	28.32	27.15	26.69	26.87	28.81	---	---



HENDRY COUNTY—Continued

WELL NUMBER.--263930081301501. Local Number HE 559. USGS Observation Well near La Belle, FL.

LOCATION.--Lat 26°39"31", long 81°30"14", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 10, T.44 S., R.28 E., Hydrologic Unit 03090205, 3.8 mi east of Lee/Hendry County line at Berry Groves, 3.6 mi south of State Road 80, and 8.2 mi southwest of La Belle

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation artesian well, diameter 4 in., depth 165 ft, cased to 155 ft, screened 155 to 165 ft.

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

DATUM.--Measuring point: Top of casing, 30.76 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 27.9 ft above NGVD.

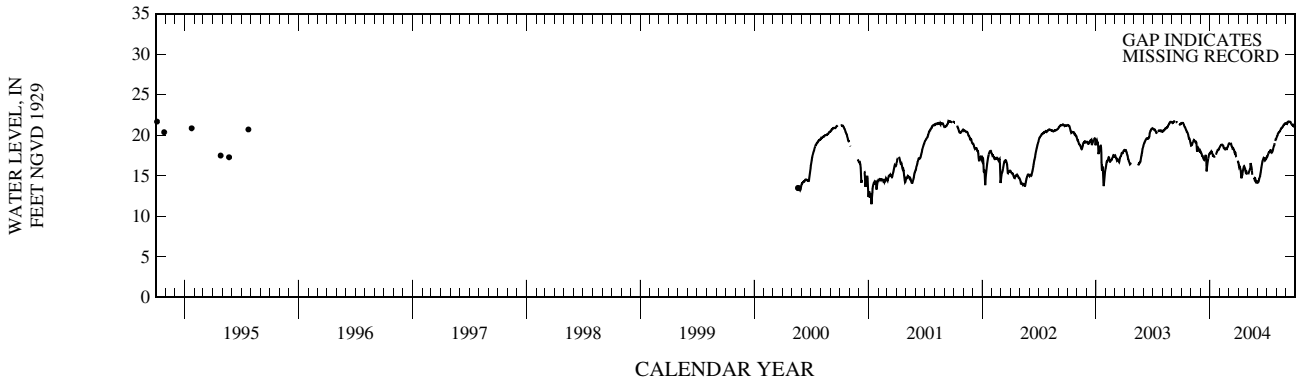
REMARKS.--Satellite data collection platform installed May 2000. Records of water levels prior to October 1976 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--October 1975 to November 1979 (monthly), December 1980 to September 1994 (monthly), October 1994 to September 1995 (quarterly), May 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 24.54 ft NGVD, Nov. 28, 1979; lowest daily maximum water level, 11.51 ft NGVD, Jan. 10, 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	21.53	18.97	17.70	18.02	18.80	18.96	16.15	15.55	14.35	17.68	20.14	21.61
10	21.20	19.43	17.19	17.51	18.80	18.74	14.71	16.57	15.23	17.93	20.45	21.68
15	20.75	19.14	17.18	17.34	18.39	18.42	15.68	15.14	16.47	18.10	20.78	21.63
20	20.36	18.00	16.33	17.61	18.33	17.82	16.14	---	17.14	18.17	21.01	21.28
25	19.63	18.33	16.90	18.14	18.51	17.32	15.59	14.61	16.89	18.90	21.32	21.11
EOM	18.92	18.00	17.73	18.48	18.85	16.68	---	14.28	17.27	19.57	21.42	21.20
MAX	21.54	19.43	18.05	---	18.85	---	---	---	17.27	---	21.48	21.69



HENDRY COUNTY—Continued

WELL NUMBER.--263930081301502. Local Number HE 560.

LOCATION.--Lat 26°39"31", long 81°30"14", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 10, T.44 S., R.28 E., Hydrologic Unit 03090205, 4.0 mi east of Lee/Hendry County line at Berry Groves, 3.0 mi south of State Road 80, and 8 mi southwest of La Belle.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian, diameter 4 in., depth 80 ft, cased to 70 ft, screened 70 to 80 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of casing, 30.87 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 27.9 ft above NGVD.

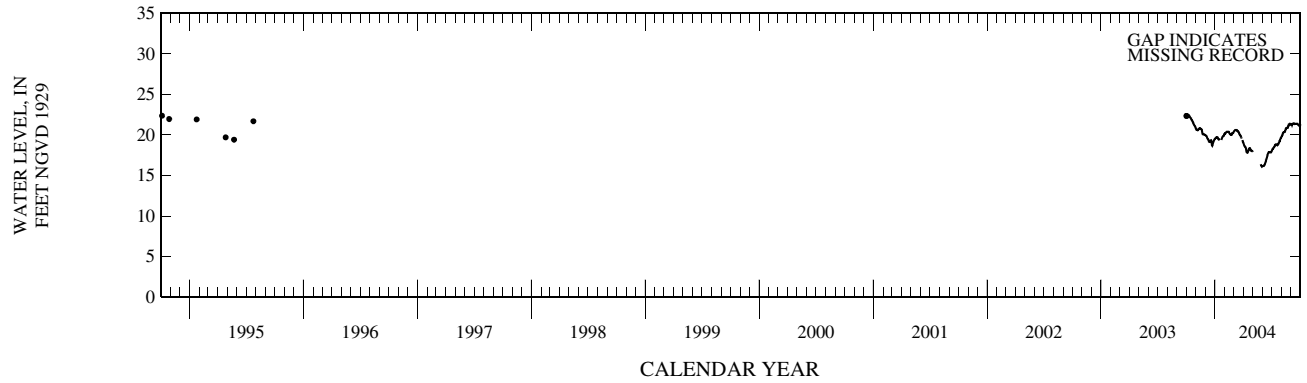
REMARKS.--Records of water levels prior to October 1976 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--October 1975 to November 1979, December 1980 to September 1994 (monthly), October 1994 to September 1995 (quarterly), October 2003 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.71 ft NGVD, Sept. 26, 1979; lowest daily maximum water level, 16.10 ft NGVD, May 30, 2004.

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	22.39	20.60	19.85	19.73	20.30	20.61	18.60	---	16.18	18.37	20.18	21.35
10	22.37	20.76	19.44	19.65	20.41	20.62	18.04	---	16.58	18.58	20.39	21.43
15	22.08	20.78	19.14	19.43	20.29	20.44	17.93	---	17.23	18.84	20.78	21.36
20	21.71	20.47	19.25	---	20.06	20.03	18.37	---	17.78	18.80	20.89	21.38
25	21.31	20.10	18.90	19.78	20.24	19.69	18.08	---	17.90	19.23	21.28	21.23
EOM	20.82	19.99	19.52	20.15	20.32	19.09	17.97	16.13	17.98	19.68	21.28	21.32
MAX	22.42	20.84	19.96	---	20.41	---	19.03	---	17.98	19.68	21.36	21.43



HENDRY COUNTY—Continued

WELL NUMBER.--263930081301503. Local Number HE 569.

LOCATION.--Lat 26°39"31", long 81°30"14", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 10, T.44 S., R.28 E., Hydrologic Unit 03090205, 3.9 mi east of Lee/Hendry County line at Berry Groves, 3.6 mi south of State Road 80, and 8 mi southwest of La Belle.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 17 ft, cased to 11 ft, open hole 11 to 17 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of casing, 30.69 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 27.89 ft above NGVD.

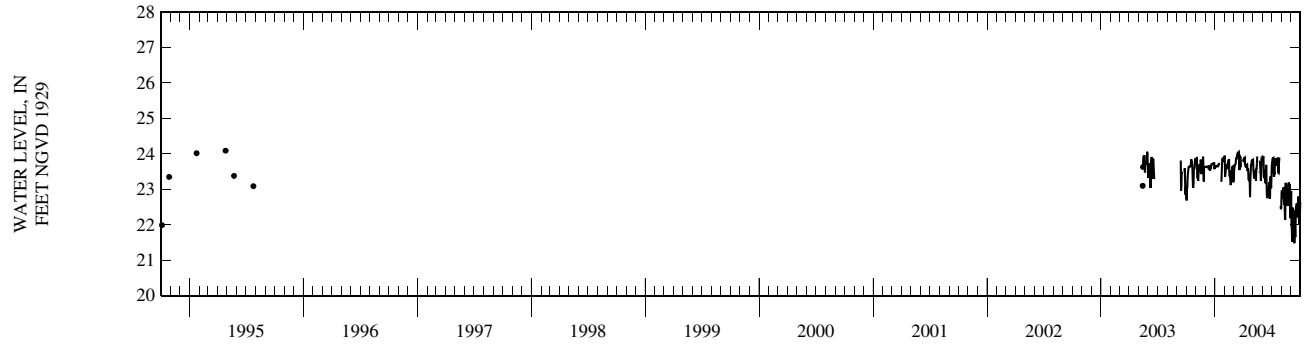
REMARKS.--Records of water levels prior to October 1976 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--October 1975 to November 1979, December 1980 to September 1994 (monthly), October 1994 to September 1995 (quarterly), October 2003 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.38 ft NGVD, July 21, 1993; lowest daily maximum water level, 20.07 ft NGVD, Mar. 30, 1983.

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	23.36	23.35	23.64	23.65	23.58	23.69	23.90	23.34	23.39	23.87	22.96	22.22
10	23.64	23.50	23.64	23.65	23.64	23.87	23.67	23.52	23.44	23.47	22.57	21.82
15	23.68	23.70	23.66	23.72	23.85	24.04	23.58	23.93	22.87	23.85	23.18	22.21
20	23.70	23.69	23.69	---	23.12	23.83	23.24	---	22.96	23.87	22.71	22.59
25	23.59	23.54	23.73	23.87	23.63	23.62	23.68	23.61	22.76	23.88	23.17	22.78
EOM	23.72	23.63	23.64	23.93	23.24	23.81	23.83	23.88	23.42	22.48	22.68	22.65
MAX	23.85	23.90	23.74	---	23.93	---	23.90	---	23.91	---	23.18	22.95



HENDRY COUNTY—Continued

WELL NUMBER.--264046081022801. Local Number HE 1068.

LOCATION.--Lat 26°40"44", long 81°02"28", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 9, T.44 S., R.33 E., Hydrologic Unit 03090202, 500 ft south of dirt road, 1.3 mi east of Flaghole Road, 5 mi south of U.S. Highway 27.

AQUIFER.--Tamiami formation, shell-marl aquifer of the Miocene Age, Geologic Unit 122 TMIMR.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 6 in., depth 160 ft, cased to 60 ft, 100 ft screen.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of flange, 21.08 ft above National Geodetic Vertical Datum of 1929. Prior to June 2003, measuring point was top of casing 19.78 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 19.6 ft above NGVD.

REMARKS.--Well used for salinity monitoring during the period of October 1987 through April 1993.

PERIOD OF RECORD.--October 1987 to September 1994 (monthly), October 1994 to September 1995 (quarterly), June 2003 to current year.

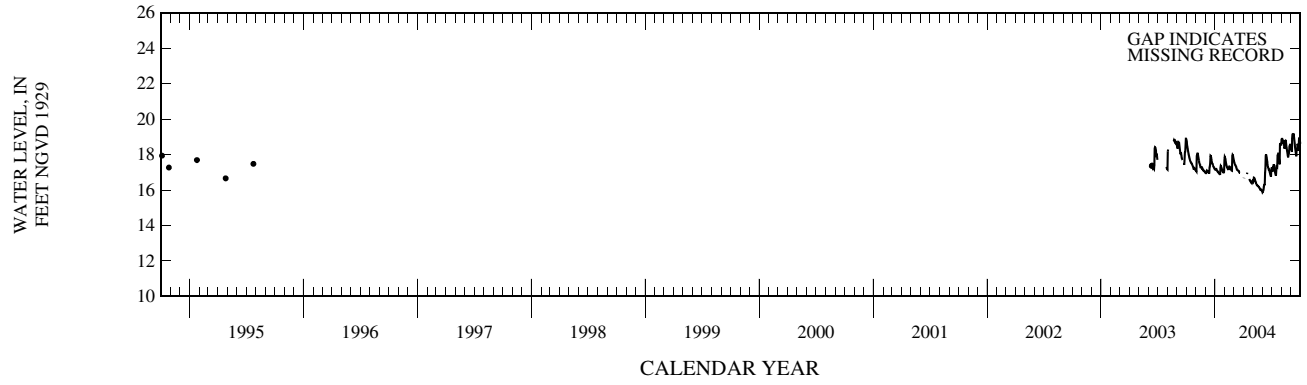
EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 19.14 ft NGVD, Sept. 6, 2004; lowest water level measured, 15.14 ft NGVD, May 24, 1990.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	---	---	---	18.78
10	---	---	---	---	---	---	---	---	---	---	---	18.24
15	---	---	---	---	---	---	---	---	17.25	---	---	17.94
20	---	---	---	---	---	---	---	---	17.42	---	---	---
25	---	---	---	---	---	---	---	---	18.24	---	18.80	17.79
EOM	---	---	---	---	---	---	---	---	17.71	17.17	18.60	18.90
MAX	---	---	---	---	---	---	---	---	---	---	---	---

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	18.35	18.06	17.02	17.18	17.51	17.43	---	16.69	16.15	17.32	18.61	19.13
10	17.86	17.66	17.03	17.04	17.21	17.23	---	16.48	17.23	17.11	18.34	18.99
15	17.58	17.29	17.35	16.91	17.33	17.09	---	16.26	17.70	17.09	18.76	18.16
20	17.41	17.26	17.71	17.34	17.19	16.98	16.62	16.18	17.24	17.99	18.06	18.30
25	17.16	17.08	17.41	17.06	17.88	---	16.44	16.01	16.95	17.50	18.14	18.39
EOM	17.10	16.99	17.17	17.69	17.74	---	16.52	15.94	17.24	18.52	18.32	18.61
MAX	18.83	18.06	17.94	17.69	17.99	---	---	16.70	18.01	18.64	18.89	19.14



HENDRY COUNTY—Continued

WELL NUMBER.--264046081022802. Local Number HE 1069.

LOCATION.--Lat 26°40"44", long 81°02"28", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 9, T.44 S., R.33 E., Hydrologic Unit 03090205, 500 ft south of dirt road, 1.3 mi east of Flaghole Road, 5 mi south of U.S. Highway 27.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 13 ft, cased to 3 ft, 10 ft of 2 in. screen.

INSTRUMENTATION.--Electronic data logger with pressure transducer.

DATUM.--Measuring point: Top of casing, 21.67 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 19.7 ft above NGVD.

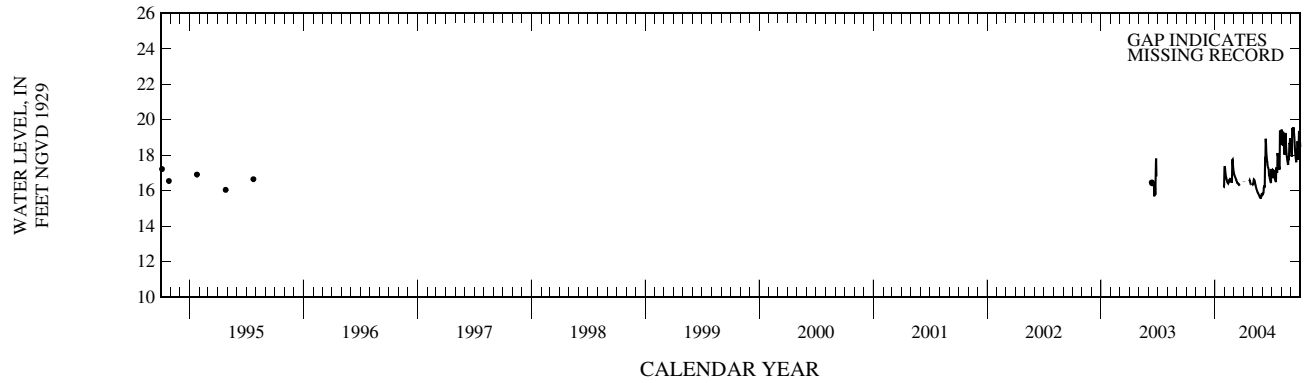
REMARKS.--Well used for salinity monitoring during the period of October 1987 through April 1993. The water-level data for the 2003 water year was not published due to the amount of missing record. The water-level data for the 2003 water year is available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--October 1987 to September 1994 (monthly), October 1994 to September 1995 (quarterly), June 2003 to current year. See REMARKS.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 19.58 ft NGVD, Sept. 8, 2004; lowest water level measured, 14.95 ft NGVD, Dec. 28, 1988.

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	---	---	---	---	16.77	16.78	---	16.62	16.15	17.15	18.54	19.53
10	---	---	---	---	16.46	16.54	---	16.29	17.77	16.73	18.04	19.24
15	---	---	---	---	16.61	16.40	---	15.98	17.72	17.28	18.83	17.90
20	---	---	---	---	16.56	16.29	16.54	15.78	17.26	17.95	17.67	18.08
25	---	---	---	---	17.73	---	16.37	15.60	16.64	17.19	18.04	18.44
EOM	---	---	---	17.21	17.10	---	16.39	15.81	17.15	18.83	18.35	18.47
MAX	---	---	---	---	17.76	---	---	16.64	18.93	19.39	19.44	19.58



HENDRY COUNTY—Continued

WELL NUMBER.--264235081310601. Local Number HE 557.

LOCATION.--Lat 26°43"36", long 81°40"04", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 28, T.43 S., R.28 E., Hydrologic Unit 03090205, 25 ft west of Fort Denaud Road (County Road 78A), 0.1 mi north of State Road 80, and 6.1 mi southwest of La Belle.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 100 ft, cased to 80 ft, screened 80 to 100 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of casing, 20.21 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 17.7 ft above NGVD.

REMARKS.--Records of water levels prior to October 1976 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--October 1975 to September 1994 (monthly), October 1994 to September 1995 (quarterly), May 2003 to current year.

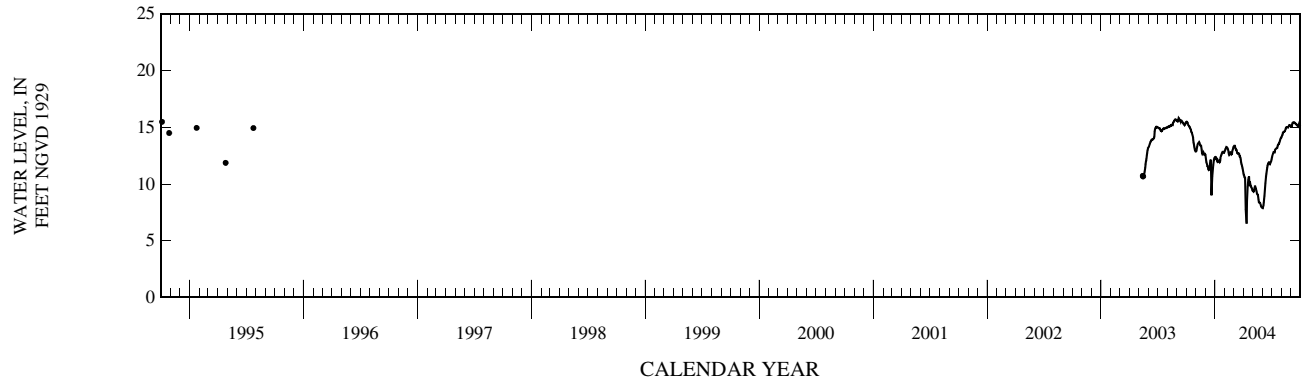
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.71 ft NGVD, Aug. 18, 1992; lowest daily maximum water level, 6.50 ft NGVD, Apr. 11, 2004.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	13.48	14.91	15.08	15.68
10	---	---	---	---	---	---	---	---	13.78	14.74	15.12	15.62
15	---	---	---	---	---	---	---	10.66	13.92	14.71	15.19	15.59
20	---	---	---	---	---	---	---	11.05	14.20	14.85	15.45	15.37
25	---	---	---	---	---	---	---	12.10	14.98	14.90	15.67	15.18
EOM	---	---	---	---	---	---	---	13.17	15.00	14.99	15.59	15.45
MAX	---	---	---	---	---	---	---	---	15.04	14.99	15.69	15.80

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	15.39	13.38	11.86	12.28	13.18	13.27	10.58	9.45	8.36	12.70	14.48	15.37
10	15.10	13.67	11.29	12.06	13.16	12.97	6.72	9.69	10.06	12.80	14.62	15.41
15	14.81	13.38	11.49	12.01	12.55	12.70	10.08	9.10	11.29	13.13	14.92	15.30
20	14.34	12.72	9.00	12.48	12.75	12.40	9.81	8.43	11.86	13.42	15.01	15.17
25	13.52	12.75	11.37	12.83	12.86	11.78	9.79	8.26	11.73	13.65	15.16	15.17
EOM	12.86	12.60	12.33	12.82	13.28	11.10	9.42	7.94	12.18	14.06	15.09	15.19
MAX	15.48	13.67	12.58	12.83	13.28	13.36	10.92	9.79	12.18	14.06	15.17	15.43



HENDRY COUNTY—Continued

WELL NUMBER.--264235081310602. Local Number HE 558.

LOCATION.--Lat 26°42"36", long 81°31"04", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 28, T.43 S., R.28 E., Hydrologic Unit 03090205, 25 ft west of Fort Denaud Road (County Road 78A), 0.1 mi north of State Road 80, and 6.2 mi southwest of La Belle.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 13.0 ft, cased to 3.0 ft, screened 3 to 13 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of casing, 20.27 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 17.7 ft above NGVD.

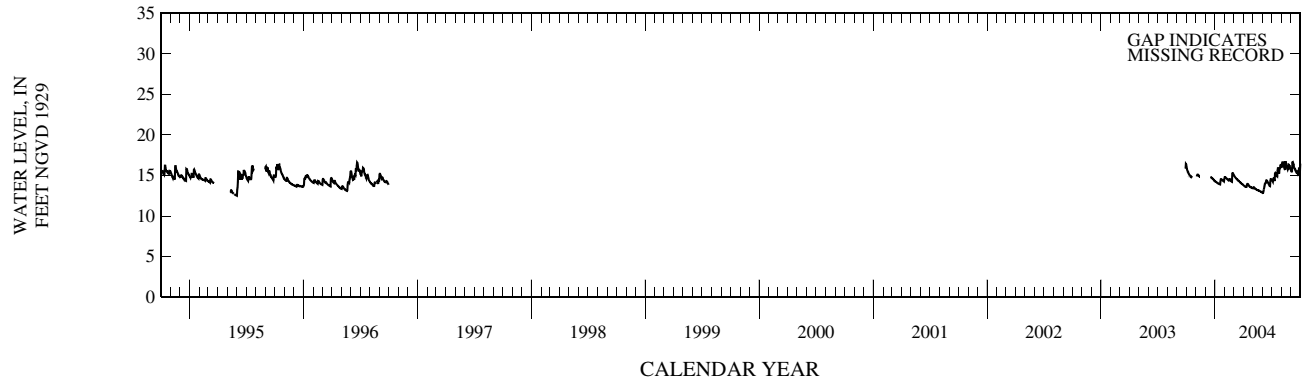
REMARKS.--Latitude and longitude corrected using GPS during the 1995 water year. Records of water levels prior to October 1976 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.-- October 1975 to October 1983 (daily), November 1983 to February 1987 (intermittent), March 1987 to September 1996 (daily), October 2003 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 17.23 ft NGVD, June 30, 1992; lowest,12.50 ft NGVD, June 1, 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	15.56	15.10	---	14.18	14.71	14.80	13.68	13.52	13.26	14.54	16.71	16.64
10	15.12	14.96	---	14.05	14.50	14.57	13.60	13.34	14.05	14.33	15.88	15.97
15	14.90	---	---	13.94	14.55	14.37	13.94	13.21	14.37	15.00	16.24	15.61
20	14.76	---	14.76	14.53	14.41	14.20	13.67	13.15	14.02	15.86	15.84	15.26
25	---	---	14.57	14.40	15.21	14.01	13.55	13.04	13.69	15.87	16.23	15.16
EOM	---	---	14.31	14.64	15.14	13.84	13.45	12.91	14.48	15.98	15.64	16.48
MAX	---	---	---	14.64	15.29	15.06	13.97	13.53	14.54	16.36	16.76	16.65



Lee County

VOLUME 2B: SOUTH FLORIDA

Key to site locations on figure # 17

LEE COUNTY

Index Number	Site Number	Well Name	Page Number	Index Number	Site Number	Well Name	Page Number
1	263532081592201	L 581	337	61	263242081572101	L 2244	315
2	262710082005301	L 585	294	62	263718081485003	L 2292	343
3	262538082045701	L 588	278	63	262552081485702	L 2295	280
4	264101081443001	L 652	358	64	262552081485703	L 2308	281
5	264153082022301	L 721	361	65	263344081361704	L 2311	332
6	263850081365401	L 727	349	66	262703081340203	L 2313	290
7	263712081461201	L 728	340	67	263004082111701	L 2315	303
8	263335081394301	L 729	328	68	264608081454103	L 2328	377
9	263138081545801	L 730	312	69	264517081513201	L 2341	371
10	262703081340201	L 731	288	70	263526082010201	L 2434	336
11	262839081503100	L 735	300	71	263307081555901	L 2435	323
12	262022081464201	L 738	264	72	262622082074401	L 2524	283
13	262657081443501	L 739	286	73	263117082051001	L 2525	309
14	263323081522401	L 742	324	74	264517082022102	L 2526	373
15	263834082005301	L 781	348	75	263955082083101	L 2527	353
16	264517082022101	L 1059	372	76	263907081592701	L 2528	350
17	264241081582401	L 1110	362	77	262944081560801	L 2529	302
18	264147081562701	L 1111	360	78	264308081405402	L 2530	363
19	264120082022101	L 1113	359	79	264427081362601	L 2531	369
20	263327081512001	L 1121	325	80	263955082083103	L 2549	355
21	263532081592202	L 1136	338	81	262711081413701	L 2550	295
22	263950081355402	L 1137	352	82	263813081552801	L 2640	346
23	262703081340202	L 1138	289	83	263257081585701	L 2642	322
24	262549082035301	L 1403	279	84	263253082014201	L 2643	321
25	263630081375301	L 1418	339	85	263440082022001	L 2644	334
26	263233081550301	L 1598	314	86	263743082041201	L 2645	344
27	263329081394302	L 1625	327	87	264537081552202	L 2646	374
28	262435081535101	L 1634	274	88	264002082012801	L 2700	356
29	262435081535001	L 1635	273	89	263819081585801	L 2701	347
30	262042081455001	L 1691	265	90	263955082083102	L 2820	354
31	262706081435401	L 1853	291	91	263117082051002	L 2821	310
32	263344081361701	L 1963	329	92	263440082022002	L 3207	335
33	263344081361702	L 1964	330	93	264053081572501	L 4820	357
34	263353081335801	L 1965	333	94	263115081483501	L 5641	307
35	263807081430301	L 1968	345	95	263249081474401	L 5648	316
36	263718081485001	L 1973	341	96	262934081495801	L 5649	301
37	263718081485002	L 1974	342	97	262514081393402	L 5664	277
38	264359081424701	L 1975	367	98	262513081432601	L 5667	275
39	264359081424702	L 1976	368	99	262513081472001	L 5669R	276
40	264320081365701	L 1977	364	100	262331082383201	L 5672	270
41	263041081433101	L 1983	304	101	262331082383202	L 5673	271
42	262713081414701	L 1985	297	102	264433081360601	L 5708	370
43	263251081452801	L 1993	318	103	263249081474402	L 5720	317
44	263251081452802	L 1994	319	104	262102081464401	L 5722	266
45	263251081452803	L 1995	320	105	262102081464402	L 5723	267
46	263041081433102	L 1998	305	106	261946081490302	L 5725	261
47	263041081433103	L 1999	306	107	261859081481901	L 5726	258
48	263344081361703	L 2186	331	108	262351081485401	L 5730	272
49	263950081355401	L 2187	351	109	262755082090902	L 5734	298
50	262659081382501	L 2192	287	110	262706082080201	L 5735	292
51	262713081414401	L 2193	296	111	262706082080202	L 5737	293
52	261957081432201	L 2194	262	112	261926081454701	L 5744R	259
53	261957081432202	L 2195	263	113	261926081454702	L 5745R	260
54	264329081340401	L 2200	365	114	262258081471801	L 5746	268
55	264329081340402	L 2202	366	115	262258081471802	L 5747	269
56	263329081394301	L 2204	326	116	263138082112801	L 5766	313
57	262831081575901	L 2212	299	117	263115081483502	L 5801	308
58	263127081351602	L 2215	311	118	262630081484802	L 5808	285
59	264608081454101	L 2216	375	119	262630081484801	L 5844	284
60	264608081454102	L 2217	376	120	262605081425901	L 5874	282

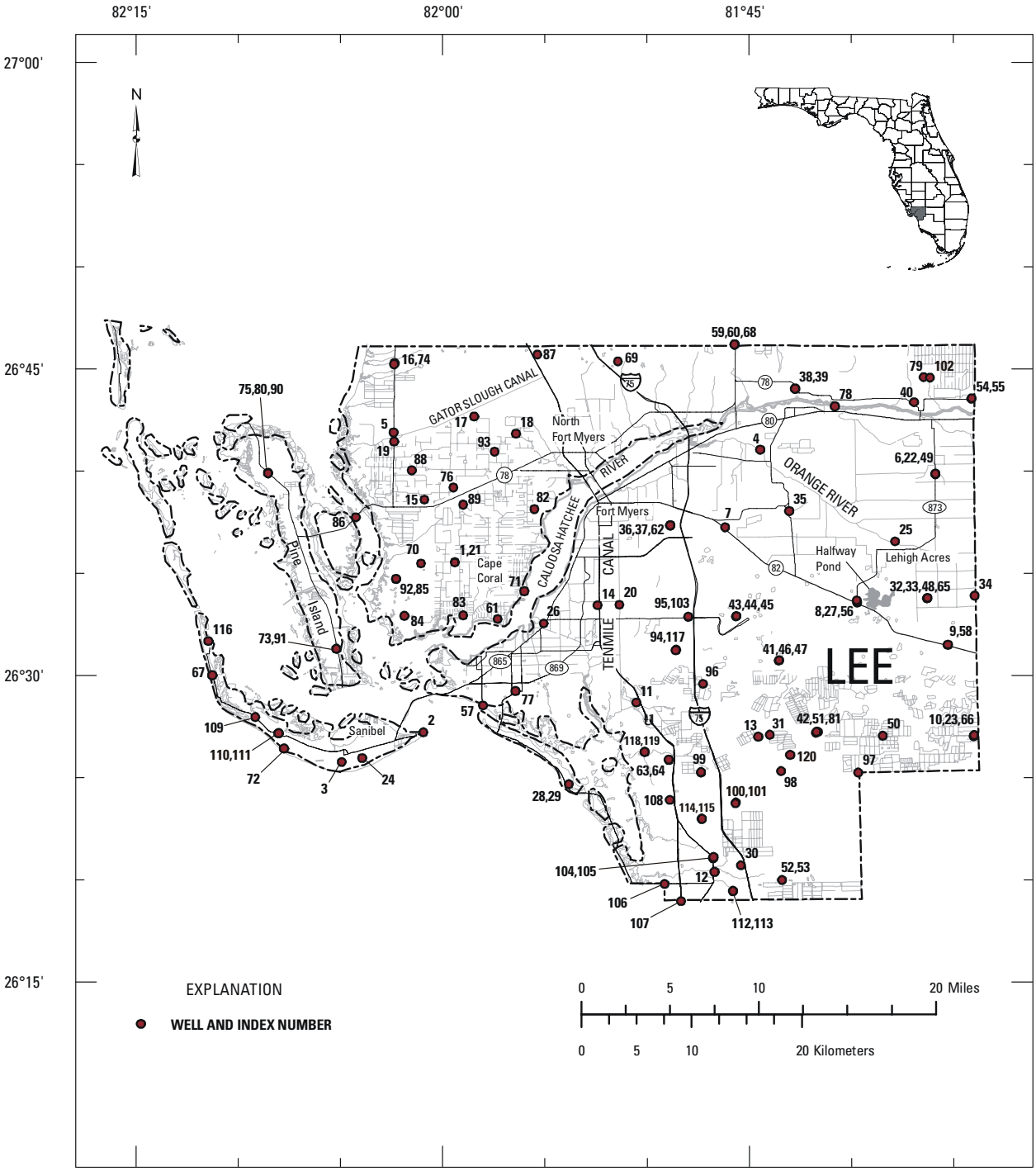


Figure 17. Location of wells in Lee County

LEE COUNTY

WELL NUMBER.--261859081481901. Local Number L 5726.

LOCATION.--Lat 26°18'59", long 81°47'29", in SE ¼ SE ¼ sec.4, T.48 S., R.25 E., Hydrologic Unit 03090204, 100 ft north of Lee/Collier County Line on east side of U.S. Highway 41, 1.5 mi southwest of Bonita Springs Post Office.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 32 ft, cased to 22 ft, screened 22 to 32 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 13.90 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 11.2 ft above NGVD.

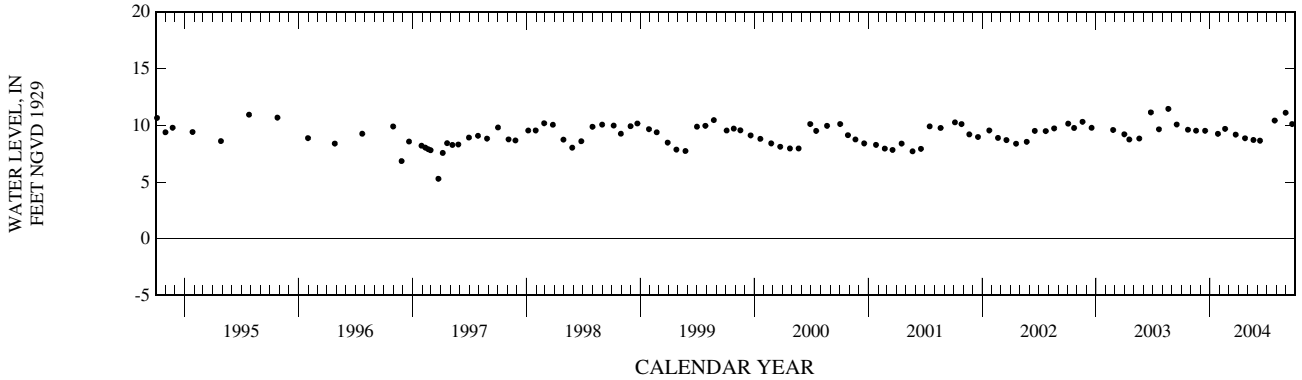
REMARKS.--Well is also used for salinity monitoring. Quality assurance protocols for conductivity and chloride samples collected at this station were reassessed in September 1998. Chloride and conductivity data collected prior to this date are available in the files of the U.S. Geological Survey and should be used with caution. See DATUM. Well was discontinued September 2004.

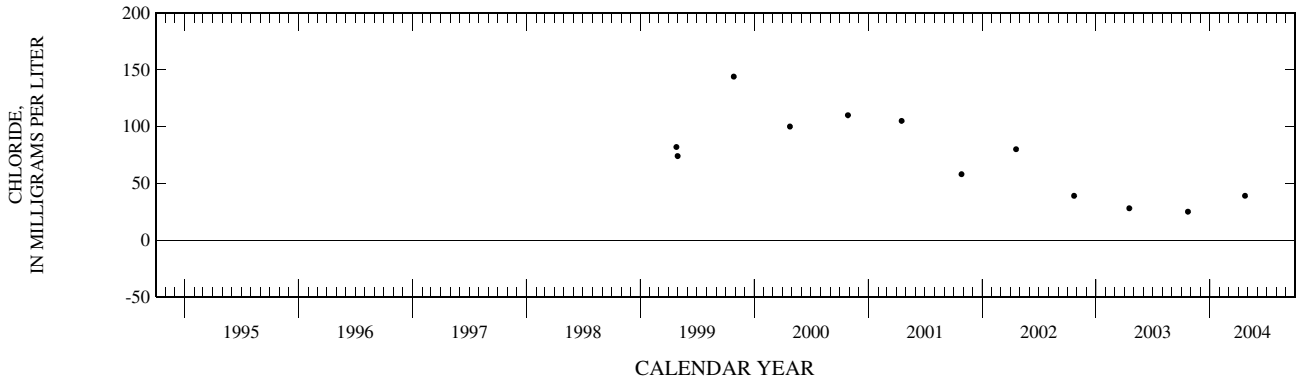
PERIOD OF RECORD.--April 1986 to September 1994 (monthly), October 1994 to September 1996 (quarterly), October 1996 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.44 ft NGVD, Aug. 20, 2003; lowest, 4.32 ft NGVD, June 12, 1989.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
22...	0957	9.60	127	25.0
NOV				
17...	1438	9.52	--	--
DEC				
16...	1233	9.51	--	--
JAN				
26...	1610	9.24	--	--
FEB				
18...	1342	9.68	--	--
MAR				
23...	1329	9.17	--	--
APR				
22...	1132	8.85	183	39.0
MAY				
19...	1343	8.70	--	--
JUN				
09...	1153	8.64	--	--
JUL				
26...	1633	10.41	--	--
AUG				
30...	1618	11.10	--	--
SEP				
20...	1117	10.10	--	--





LEE COUNTY—Continued

WELL NUMBER.--261926081454701. Local Number L 5744R.

LOCATION.--Lat 26°19'25", long 81°45'46", in NE ¼ NE ¼ SW ¼ sec.1, T.48 S., R.25 E., Hydrologic Unit 03090204, in the median of Imperial Street, 150 ft south of the intersection of Imperial Street and Dellwood Lane, 0.5 mi north of Lee/Collier County Line.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 2 in., measured depth 19 ft, well construction information unavailable.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 17.57 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 15.7 ft above NGVD.

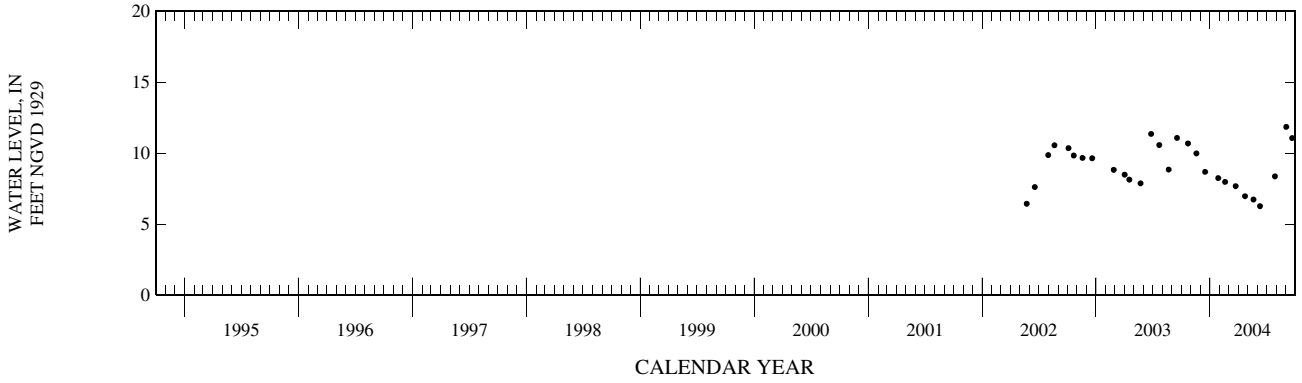
REMARKS.--Well replaces L 5744. Well discontinued September 2004.

PERIOD OF RECORD.--May 2002 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.86 ft NGVD, Sept. 1, 2004; lowest, 6.27 ft NGVD, June 9, 2004.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
22...	0934	10.69	22...	1215	6.97
NOV			MAY		
18...	1246	9.99	19...	1445	6.74
DEC			JUN		
16...	1305	8.69	09...	1229	6.27
JAN			JUL		
27...	1126	8.25	27...	1403	8.37
FEB			SEP		
18...	1413	7.98	01...	1230	11.86
MAR			20...	1140	11.07
23...	1350	7.68			



LEE COUNTY—Continued

WELL NUMBER.--261926081454702. Local Number L 5745R.

LOCATION.--Lat 26°19'25", long 81°45'46", in NE ¼ NE ¼ SW ¼ sec.1, T.48 S., R.25 E., Hydrologic Unit 03090204, in the median on Imperial Street, 150 ft south of the intersection of Imperial Street and Dellwood Lane, 0.5 mi north of Lee/Collier County Line.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 2 in., measured depth 108 ft, well construction information unavailable.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 17.45 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 15.8 ft above NGVD.

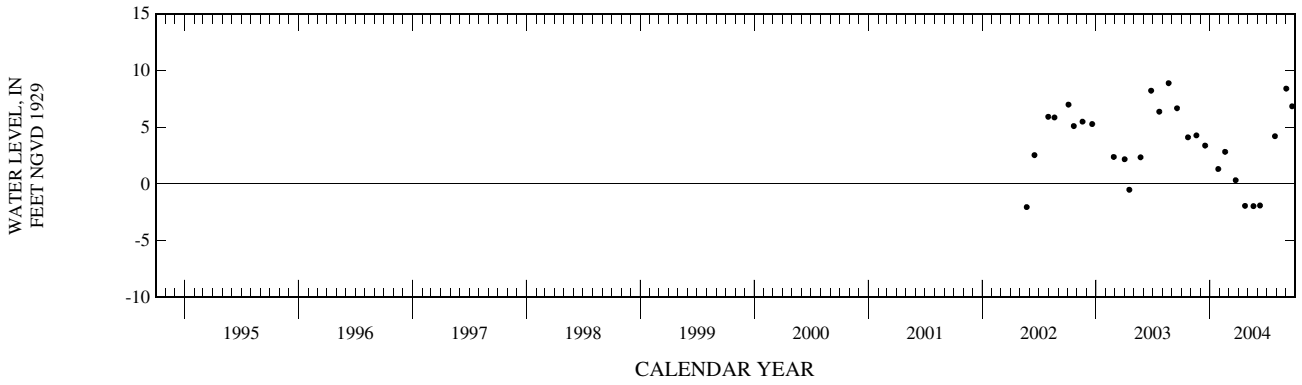
REMARKS.--Well is also used for salinity monitoring. Well replaces L 5745.

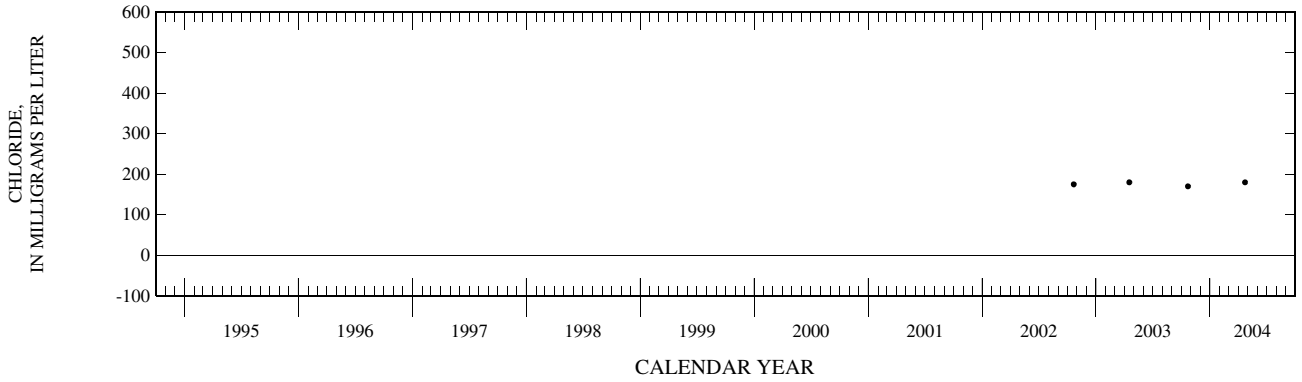
PERIOD OF RECORD.--May 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.88 ft NGVD, Aug. 21, 2003; lowest, 2.04 ft below NGVD, May 23, 2002.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
22...	0936	4.11	1,150	170
NOV				
18...	1249	4.28	--	--
DEC				
16...	1303	3.38	--	--
JAN				
27...	1125	1.32	--	--
FEB				
18...	1415	2.83	--	--
MAR				
23...	1352	.33	--	--
APR				
22...	1220	-1.93	1,200	180
MAY				
19...	1444	-1.95	--	--
JUN				
09...	1227	-1.90	--	--
JUL				
27...	1406	4.21	--	--
SEP				
01...	1237	8.40	--	--
20...	1143	6.84	--	--





LEE COUNTY—Continued

WELL NUMBER.--261946081490302. Local Number L 5725.

LOCATION.--Lat 26°19'48", long 81°49'06", in NW $^1/_4$ NW $^1/_4$ sec.4, T.48 S., R.25 E., Hydrologic Unit 03090204, on east side of Sunset Drive, 150 ft south of Bonita Beach Road, 3 mi west of Bonita Springs Post Office.

AQUIFER.--Lower Tamiami aquifer of the Pliocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 128 ft, cased to 65 ft, open hole 65 to 128 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 14.96 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 12.0 ft above NGVD.

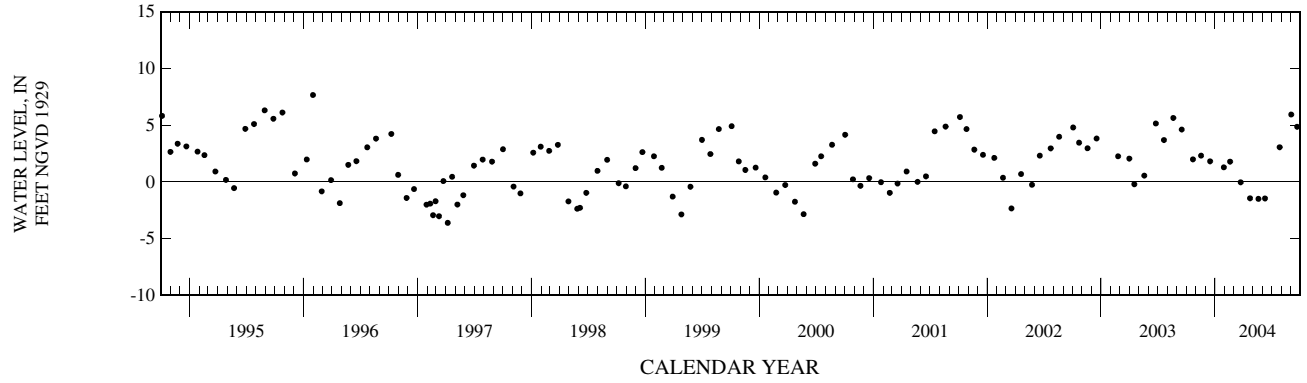
REMARKS.--Well is also used for salinity monitoring. Conductivity and chloride profiles for the previous water years are available in the files of the U.S. Geological Survey. Quality assurance protocols for conductivity and chloride samples collected at this station were reassessed in September 1998. Chloride and conductivity data collected prior to this date are available in the files of the U.S. Geological Survey and should be used with caution. Well discontinued September 2004.

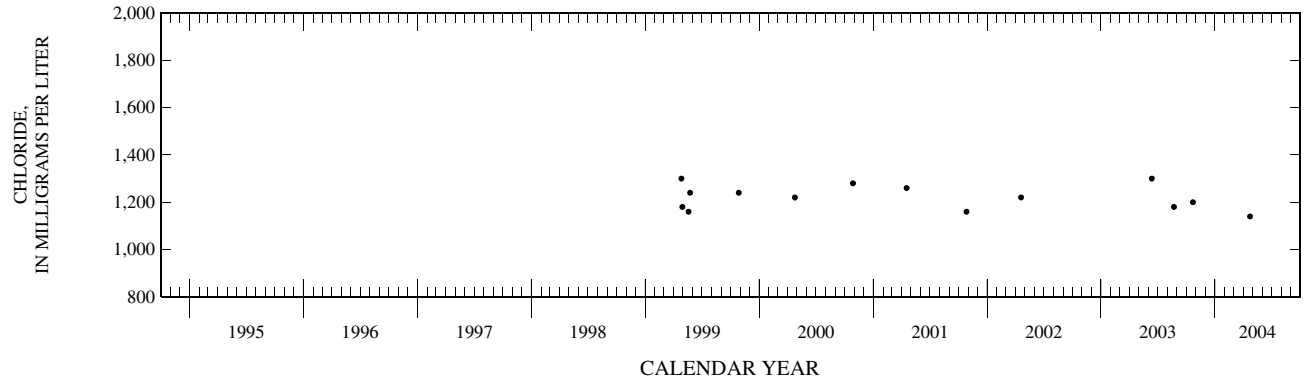
PERIOD OF RECORD.--April 1986 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.66 ft NGVD, Jan. 31, 1996; lowest, 3.60 ft below NGVD, Apr. 7, 1997.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
22...	1013	1.99	4,690	1,200
NOV				
17...	1447	2.32	--	--
DEC				
16...	1249	1.82	--	--
JAN				
29...	1122	1.29	--	--
FEB				
18...	1353	1.79	--	--
MAR				
23...	1338	-.03	--	--
APR				
22...	1150	-1.44	4,910	1,140
MAY				
19...	1351	-1.49	--	--
JUN				
09...	1215	-1.45	--	--
JUL				
26...	1642	3.06	--	--
SEP				
01...	1315	5.94	--	--
20...	1124	4.86	--	--





LEE COUNTY—Continued

WELL NUMBER.--261957081432201. Local Number L 2194.

LOCATION.--Lat 26°19'57", long 81°43'22", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.32, T.47 S., R.26 E., Hydrologic Unit 03090204, 7 ft east of Faygin Lane, 500 ft north of Bonita Beach Road SE, 1.8 mi east of of U.S. Interstate 75 and 3.5 mi east of Bonita Springs Post Office.

AQUIFER.--Lower Tamiami aquifer of the Pliocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 137 ft, cased to 81 ft.

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

DATUM.--Measuring point: Top of shelf, 17.29 ft above National Geodetic Vertical Datum of 1929. Prior to February 27, 1995, top of shelf was 17.27 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 14.6 ft above NGVD.

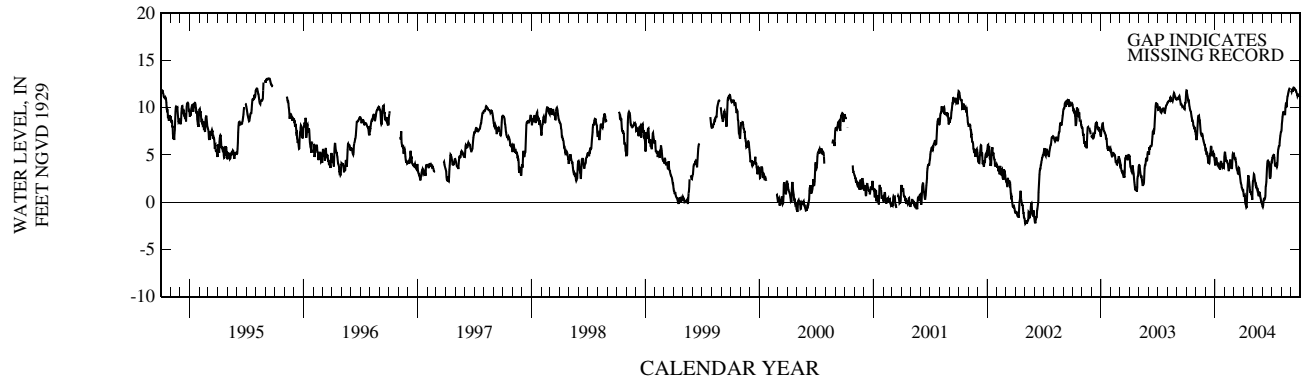
REMARKS:--Station repaired February 27, 1995.

PERIOD OF RECORD.--August 1975 to September 1978 (monthly), October 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 13.42 ft NGVD, Sept. 3, 1983; lowest 2.50 ft below NGVD, Jan. 5, 1991.

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	11.11	7.85	5.01	4.64	4.37	4.55	0.71	2.91	0.31	4.92	9.23	11.92
10	10.28	9.16	4.10	4.17	4.10	3.64	-0.55	1.81	0.66	4.26	9.33	12.09
15	9.60	7.76	5.17	4.01	3.76	3.02	2.29	1.34	3.62	4.03	10.42	11.86
20	8.67	7.20	5.81	4.35	3.95	2.92	1.92	0.63	4.32	5.17	11.17	11.39
25	8.01	6.45	5.14	4.01	4.12	1.86	0.97	0.50	2.48	5.96	11.86	11.34
EOM	7.18	5.72	4.28	4.79	5.06	1.26	1.63	-0.25	4.32	7.46	---	11.15
MAX	11.81	9.16	5.94	4.79	5.33	5.09	2.84	2.96	4.41	7.46	---	12.11



LEE COUNTY—Continued

WELL NUMBER.--261957081432202. Local Number L 2195.

LOCATION.--Lat 26°19'57", long 81°43'22", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.32, T.47 S., R.26 E., Hydrologic Unit 03090204, 7 ft east of Faygin Lane, 500 ft north of Bonita Beach Road SE, 1.8 mi west of of U.S. Interstate 75 and 3.5 mi east of Bonita Springs Post Office.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 15 ft, cased to 14 ft, open hole 14 to 15 ft.

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

DATUM.--Measuring point: Top of flange, 17.26 ft above National Geodetic Vertical Datum of 1929. From October 1989 to February 27, 1995, measuring point was top of shelf, 17.36 ft above NGVD. Prior to October 1989, measuring point was top of casing 17.34 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 14.7 ft above NGVD.

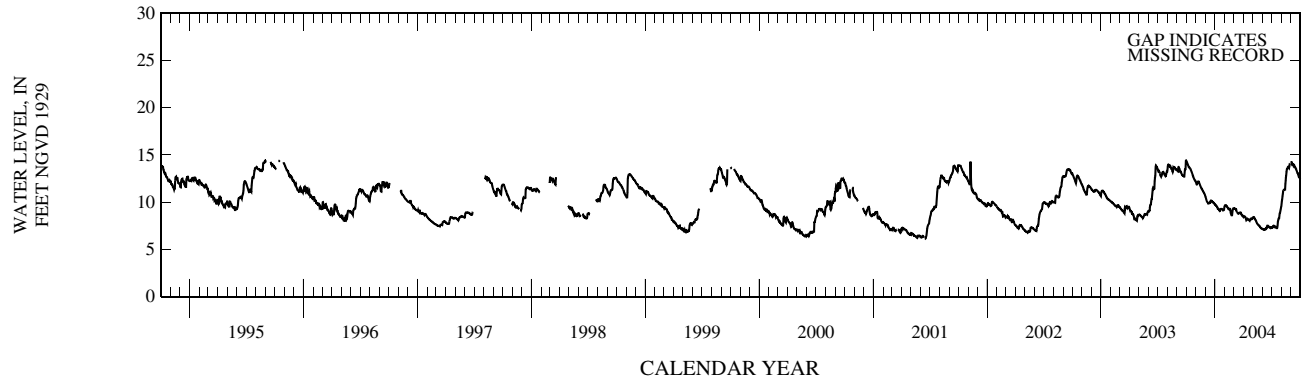
REMARKS.--Well resurveyed to current measuring point February 27, 1995.

PERIOD OF RECORD.--August 1975 to February 1978 (monthly), February 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 14.83 ft NGVD, July 1-3, 1992; lowest, 6.16 ft NGVD, June 16, 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	14.06	11.98	10.17	9.61	9.69	9.30	8.48	8.39	7.10	7.49	10.86	14.04
10	13.68	12.14	9.87	9.31	9.44	9.06	8.09	8.13	7.19	7.34	11.32	13.97
15	13.44	11.73	9.95	9.11	9.31	8.79	8.21	7.73	7.44	7.30	12.55	13.61
20	12.98	11.37	10.14	9.29	8.90	8.88	8.05	7.55	7.44	7.90	13.54	13.17
25	12.53	11.06	10.02	9.19	8.84	8.76	8.28	7.34	7.31	8.62	13.63	12.74
EOM	12.17	10.69	9.78	9.50	9.35	8.54	8.34	7.18	7.35	9.48	14.18	12.57
MAX	14.34	12.19	10.60	9.74	9.69	9.34	8.49	8.41	7.52	9.48	---	14.23



LEE COUNTY—Continued

WELL NUMBER.--262022081464201. Local Number L 738.

LOCATION.--Lat 26°20'23", long 81°46'41", in SW ¼ SW ¼ NE ¼ sec.35, T.47 S., R.25 E., Hydrologic Unit 03090204, at northwest corner of Felts Street and Childer Street in Bonita Springs.

AQUIFER.--Lower Tamiami aquifer of the Pliocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 75 ft, cased to 61 ft, open hole 61 to 75 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of casing, 11.31 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 9.2 ft above NGVD.

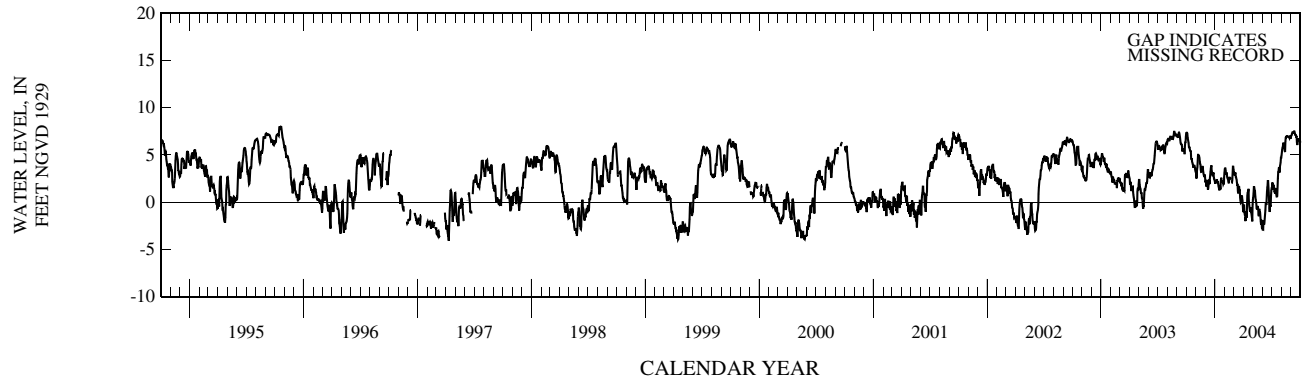
REMARKS.--Well is also used for salinity monitoring. Records of water levels prior to October 1975 are in the files of the U.S. Geological Survey.

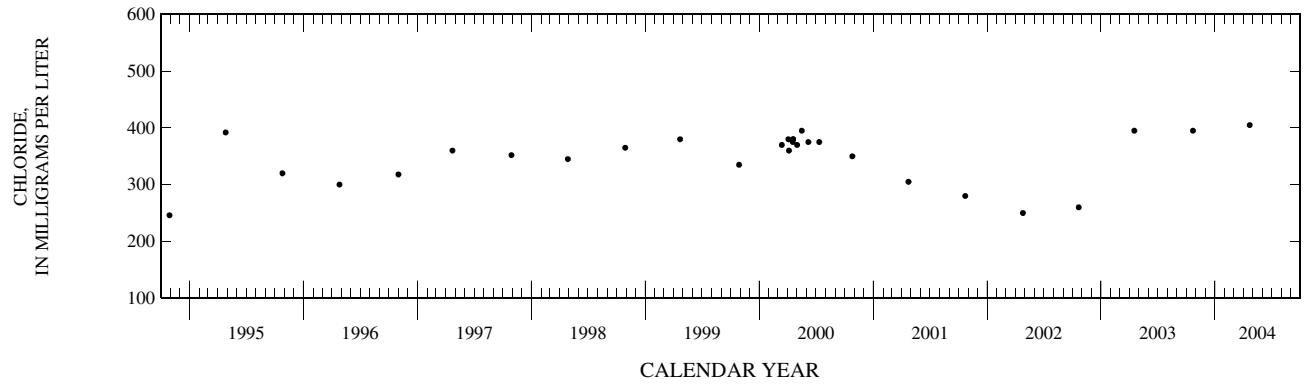
PERIOD OF RECORD.--November 1968 to June 1973 (daily), July 1974 to March 1992 (monthly), April 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.97 ft NGVD, Oct. 20, 1995; lowest water level measured, 5.51 ft below NGVD, Jan. 12, 1989.

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	6.86	3.70	2.27	2.24	2.90	3.08	-1.26	1.60	-2.00	1.33	5.84	7.38
10	5.79	4.91	1.49	2.12	2.49	2.43	-1.06	0.30	-0.83	1.15	5.73	7.48
15	5.37	4.02	2.52	1.26	2.38	0.94	1.01	-0.69	1.12	0.81	6.81	7.12
20	4.19	3.53	3.83	2.51	2.59	1.24	-0.42	-1.49	1.58	2.53	6.95	6.04
25	3.74	2.94	2.84	2.11	2.31	0.15	-1.03	-1.52	-0.38	3.13	6.88	6.63
EOM	3.16	2.35	2.22	3.10	3.43	-0.95	-0.27	-2.65	1.48	4.69	6.90	6.30
MAX	7.34	5.01	3.83	3.10	---	3.17	1.33	1.60	2.24	4.69	6.98	7.48





LEE COUNTY—Continued

WELL NUMBER.--262042081455001. Local Number L 1691.

LOCATION.--Lat 26°20'43", long 81°45'23", in NE ¼ NE ¼ NW ¼ sec.36, T.47 S., R.25 E., Hydrologic Unit 03090204, on East Terry Street, 1.5 mi east of Business U.S. Highway 41, (County Road 887), and 1.4 mi east of Bonita Springs Post Office.

AQUIFER.--Lower Tamiami aquifer of the Pliocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 69 ft, cased to 58 ft, open hole 58 to 69 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of recorder shelf, 15.48 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 14.3 ft above NGVD.

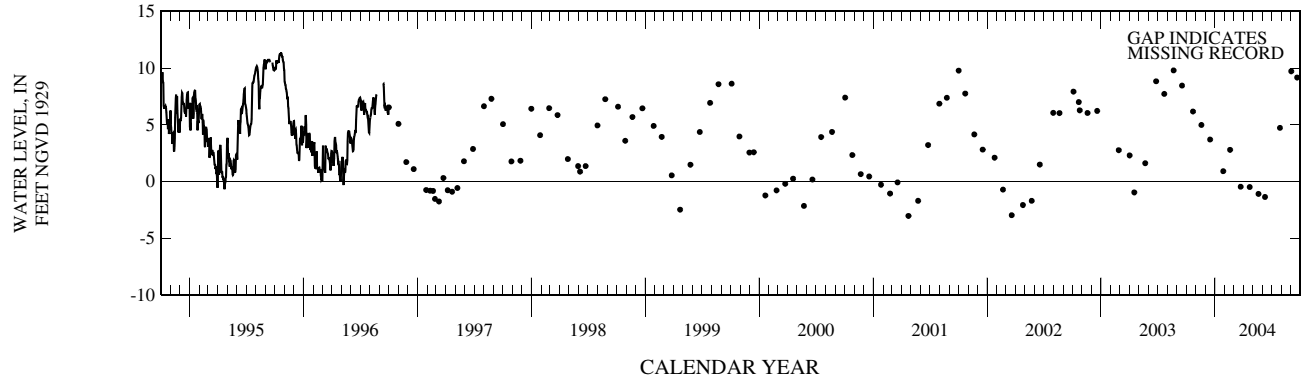
REMARKS.--Well is also used for salinity monitoring until September 2004. Records of water levels, prior to October 1973, are available in files of the U.S. Geological Survey.

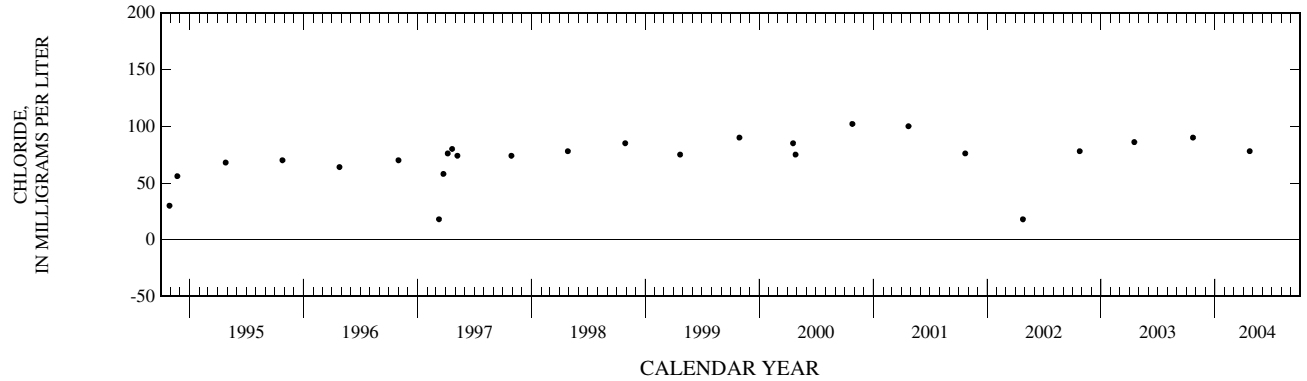
PERIOD OF RECORD.--June 1973 to September 1996 (daily), October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 11.92 ft NGVD, Aug. 16, 17, 1974; lowest, 6.58 ft below NGVD, Jan. 7, 1989.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
22...	1132	6.18	823	90.0
NOV				
18...	1320	4.99	--	--
DEC				
16...	1411	3.71	--	--
JAN				
27...	1003	.92	--	--
FEB				
18...	1541	2.80	--	--
MAR				
23...	1505	-.45	--	--
APR				
21...	1258	-.48	541	78.0
MAY				
19...	1605	-1.08	--	--
JUN				
09...	1310	-1.35	--	--
JUL				
27...	1345	4.74	--	--
SEP				
01...	1211	9.72	--	--
20...	1524	9.17	--	--





LEE COUNTY—Continued

WELL NUMBER.--262102081464401. Local Number L 5722.

LOCATION.--Lat 26°21'04", long 81°46'45", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.26, T.47 S., R.25 E., Hydrologic Unit 03090204, at the northeast corner of Rosemary Drive and Business U.S. Highway 41, (County Road 887), 1.5 mi north of Bonita Springs Post Office. 22

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 21 ft, cased to 11 ft, screened 11 to 21 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 13.79 ft above National Geodetic Vertical Datum of 1929. From December 18, 2001 to April 10, 2003, measuring point was 11.02 ft above NGVD. Prior to December 18, 2001, measuring point was 13.36 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 10.5 ft above NGVD.

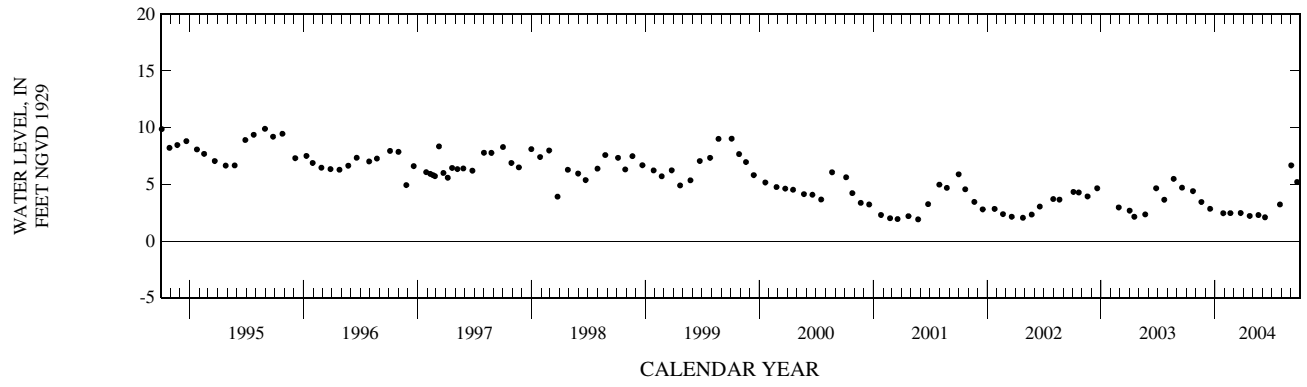
REMARKS.--Well was monitored for salinity until April 1993. The station was reconstructed and resurveyed December 18, 2001. Station was reconstructed again on April 11, 2003. See DATUM. Well discontinued September 2004.

PERIOD OF RECORD.--March 1986 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.89 ft NGVD, Aug. 30, 1995; lowest, 1.91 ft NGVD, May 24, 2001.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
22...	1157	4.40	21...	1110	2.21
NOV			MAY		
18...	1333	3.44	19...	1612	2.29
DEC			JUN		
16...	1447	2.84	09...	1317	2.09
JAN			JUL		
27...	0935	2.45	27...	1437	3.22
FEB			SEP		
19...	1009	2.46	01...	1329	6.67
MAR			20...	1542	5.20
23...	1513	2.47			



LEE COUNTY—Continued

WELL NUMBER.--262102081464402. Local Number L 5723.

LOCATION.--Lat 26°21'04", long 81°46'45", in NW ¼ NW ¼ SE ¼ sec.26, T.47 S., R.25 E., Hydrologic Unit 03090204, at northeast corner of Rosemary Drive and Business U.S. Highway 41, (County Road 887), 1.5 mi north of Bonita Springs Post Office.

AQUIFER.--Lower Tamiami aquifer of the Pliocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 140 ft, cased to 55 ft, open hole 55 to 140 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 11.02 ft above National Geodetic Vertical Datum of 1929. Prior to December 18, 2001, measuring point was 13.10 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 10.8 ft above NGVD.

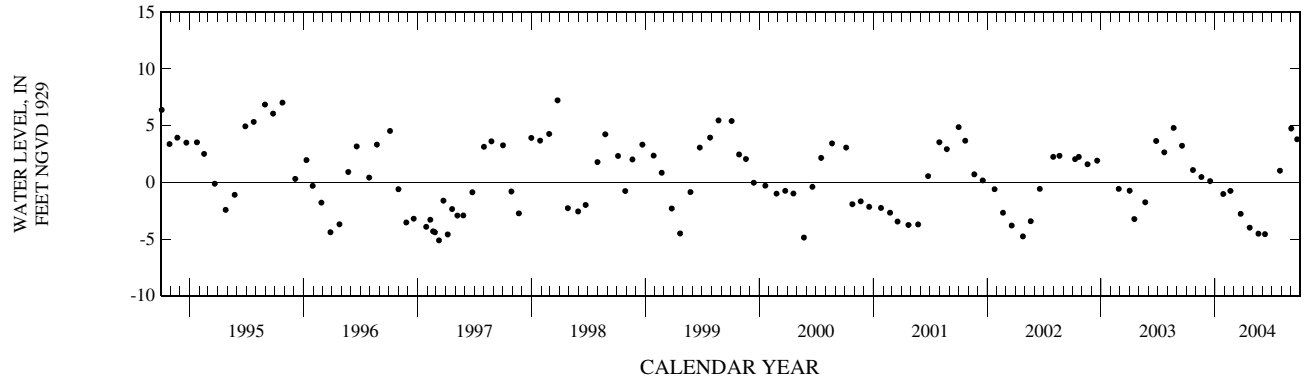
REMARKS.--Well is also used for salinity monitoring. Conductivity and chloride profiles for the previous water years are available in the files of the U.S. Geological Survey. Quality assurance protocols for conductivity and chloride samples collected at this station were reassessed in September 1998. Chloride and conductivity data collected prior to this date are available in the files of the U.S. Geological Survey and should be used with caution. The station was reconstructed and resurveyed December 18, 2001. See DATUM. Well discontinued September 2004.

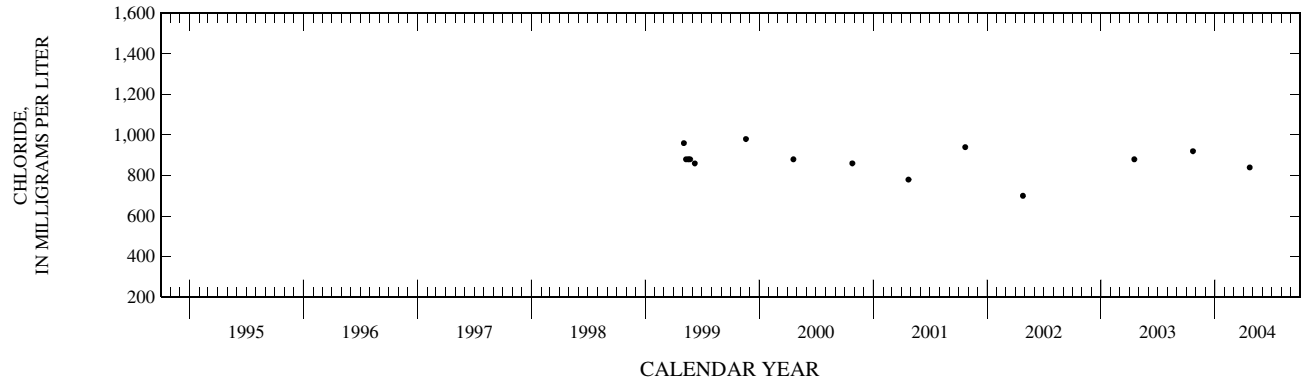
PERIOD OF RECORD.--March 1986 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.40 ft NGVD, Aug. 14, 1989; lowest, 5.33 ft below NGVD, Dec. 15, 1986.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
22...	1159	1.08	3,990	920
NOV				
18...	1331	.46	--	--
DEC				
16...	1449	.10	--	--
JAN				
27...	0936	-1.03	--	--
FEB				
19...	1012	-.76	--	--
MAR				
23...	1515	-2.78	--	--
APR				
21...	1116	-4.00	4,060	840
MAY				
19...	1614	-4.53	--	--
JUN				
09...	1319	-4.57	--	--
JUL				
27...	1439	1.02	--	--
SEP				
01...	1332	4.74	--	--
20...	1544	3.79	--	--





LEE COUNTY—Continued

WELL NUMBER.--262258081471801. Local Number L 5746.

LOCATION.--Lat 26°22'59", long 81°47'16", in NE $^1/_4$ NE $^1/_4$ SE $^1/_4$ sec.15, T.47 S., R.25 E., Hydrologic Unit 03090204, 25 ft west of Stillwell Parkway and 50 ft north of Strike Lane, 1.3 mi east of old U.S. Highway 41, (County Road 887), 3.5 mi north of Bonita Springs.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 15 ft, cased to 10 ft, screened 10 to 15 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 15.39 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 13.9 ft above NGVD.

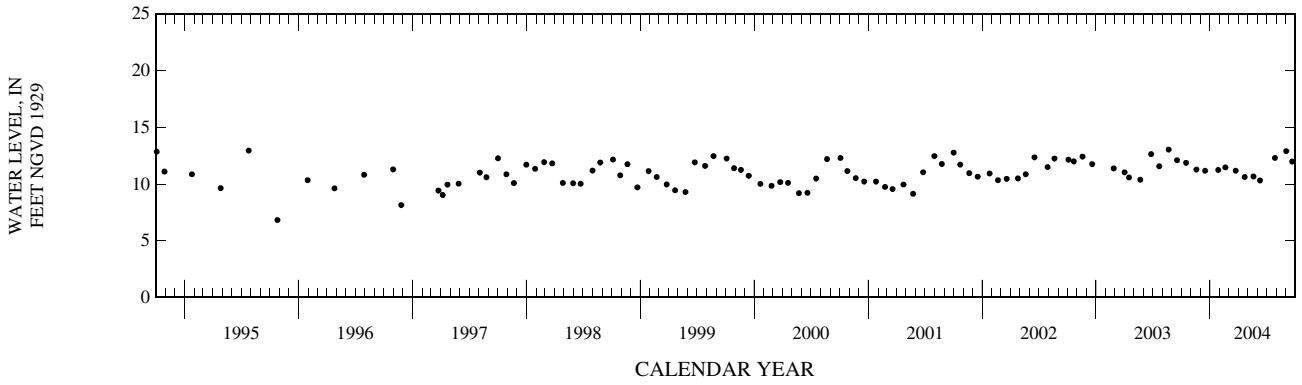
REMARKS.--Well discontinued September 2004.

PERIOD OF RECORD.--July 1987 to September 1994 (monthly), October 1994 to September 1996 (quarterly), October 1996 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.03 ft NGVD, Aug. 21, 2003; lowest, 6.82 ft NGVD, Oct. 25, 1995.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
16...	1541	11.86	21...	1033	10.61
NOV			MAY		
18...	1349	11.27	19...	1624	10.66
DEC			JUN		
16...	1500	11.16	09...	1328	10.31
JAN			JUL		
27...	0923	11.23	27...	1449	12.29
FEB			SEP		
19...	0958	11.46	01...	1346	12.89
MAR			20...	1553	11.97
23...	1530	11.17			



LEE COUNTY—Continued

WELL NUMBER.--262258081471802. Local Number L 5747.

LOCATION.--Lat 26°22'59", long 81°47'16", in NE ¼ NE ¼ SE ¼ sec.15, T.47 S., R.25 E., Hydrologic Unit 03090204, 25 ft west of Stillwell Parkway and 50 ft north of Strike Lane, 1.3 mi east of old U.S. Highway 41, (County Road 887), 3.5 mi north of Bonita Springs.

AQUIFER.--Lower Tamiami aquifer of the Pliocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 105 ft, cased to 59 ft, 46 ft of open hole.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of casing, 15.66 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 13.9 ft above NGVD.

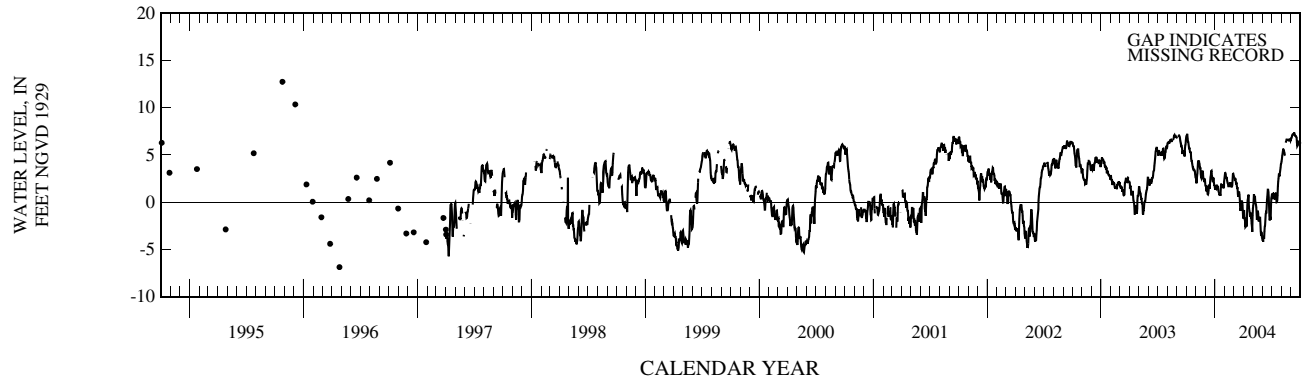
REMARKS.--Well is also used for salinity monitoring.

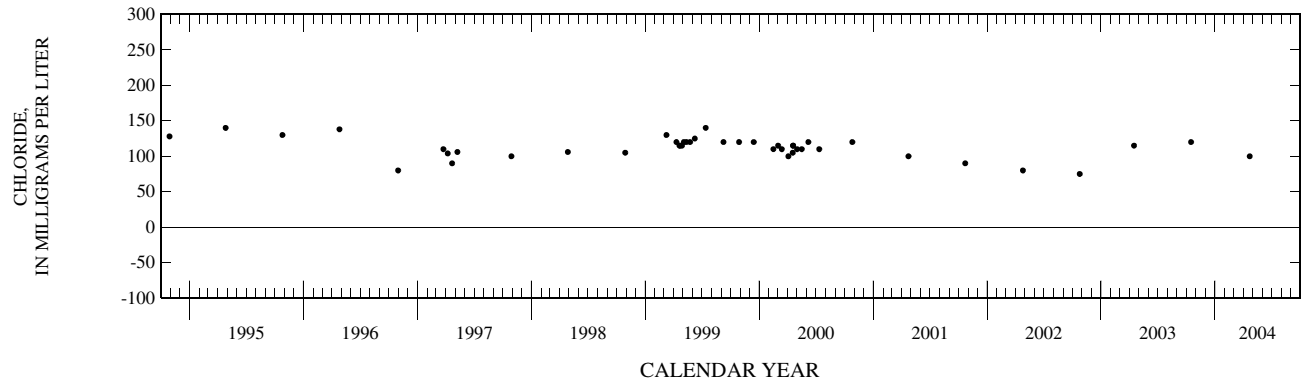
PERIOD OF RECORD.--July 1987 to September 1994 (monthly), October 1994 to September 1995 (quarterly), October 1995 to March 1997 (monthly), April 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.73 ft NGVD, Oct. 25, 1995; lowest, 6.87 ft below NGVD, Apr. 25, 1996.

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	6.73	3.08	1.64	1.63	2.51	2.46	-1.82	0.75	-3.66	0.32	5.31	7.13
10	5.68	4.33	0.95	1.63	2.02	1.99	-1.74	-0.14	-1.88	0.49	5.26	7.31
15	5.27	3.59	1.88	0.73	1.70	0.56	0.37	-1.35	0.25	0.47	6.35	7.01
20	3.91	2.93	3.32	1.88	2.02	0.33	-0.92	-2.03	1.05	1.65	6.62	5.93
25	3.43	2.41	2.12	1.63	1.80	-0.29	-1.63	-2.34	-1.64	2.72	6.53	6.33
EOM	2.56	1.96	1.58	2.50	2.85	-1.73	-1.42	-3.80	0.57	4.09	6.61	6.19
MAX	7.14	4.35	3.32	2.50	3.08	2.74	0.72	0.75	1.33	4.09	---	7.31





LEE COUNTY—Continued

WELL NUMBER.--262331082383201. Local Number L 5672.

LOCATION.--Lat 26°23'45", long 81°45'38", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.8, T.47 S., R.26 E., Hydrologic Unit 03090204, 4.85 mi north of Bonita Beach Road, 0.75 mi east of U.S. Interstate 75, and 3.5 mi east of Bonita Springs Post Office.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 38 ft, open hole 23 to 38 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 19.20 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 16.2 ft above NGVD.

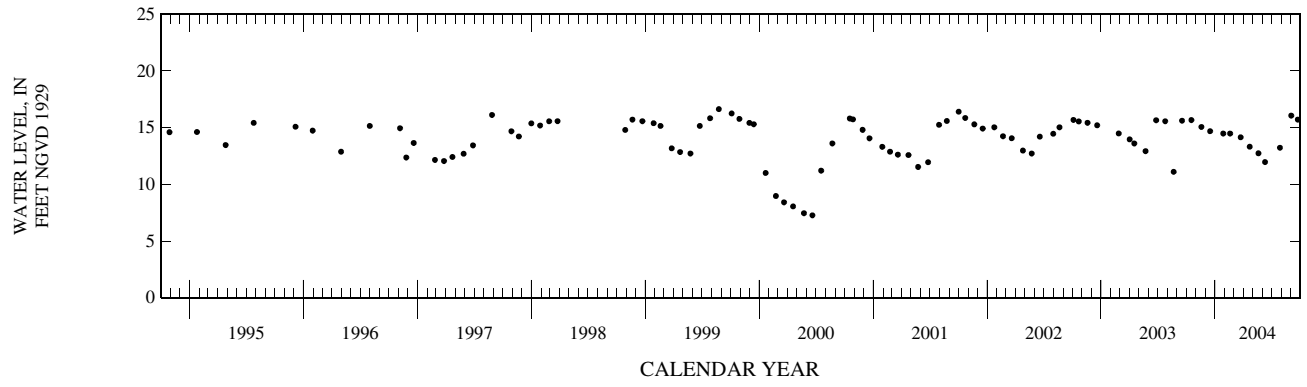
REMARKS.--Site inaccessible April to September 1998 because of elevated water levels. 1999 extreme for period of record may have been exceeded during this period. See EXTREMES FOR PERIOD OF RECORD.

PERIOD OF RECORD.--May 1983 to April 1993 (semiannual), December 1993 to September 1994 (monthly), October 1994 to September 1996 (quarterly), October 1996 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.62 ft NGVD, Aug. 24, 1999; lowest, 7.27 ft NGVD, June 19, 2000.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
17...	1446	15.66	21...	1414	13.31
NOV			MAY		
18...	1200	15.05	19...	1535	12.73
DEC			JUN		
16...	1344	14.68	09...	1250	11.96
JAN			JUL		
27...	1244	14.47	27...	1316	13.22
FEB			SEP		
18...	1443	14.47	01...	1130	16.05
MAR			22...	0920	15.70
23...	1419	14.14			



LEE COUNTY—Continued

WELL NUMBER.--262331082383202. Local Number L 5673.

LOCATION.--Lat 26°23'45", long 81°45'38", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.8, T.47 S., R.26 E., Hydrologic Unit 03090204, 4.85 mi north of Bonita Beach Road, 0.75 mi east of U.S. Interstate 75 and 3.5 mi east of Bonita Springs Post Office.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 135 ft, open hole 130 to 135 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 18.22 ft above National Geodetic Vertical Datum of 1929.

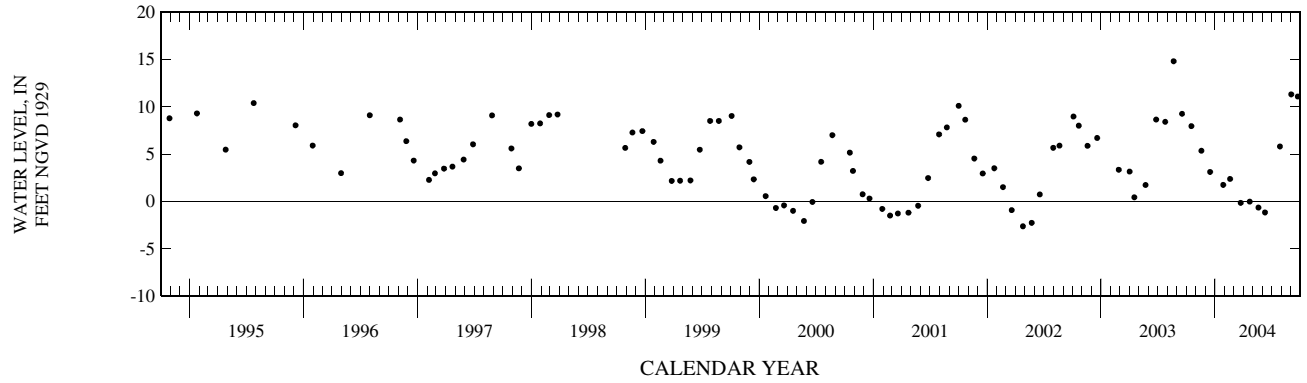
LAND-SURFACE DATUM.--Land surface is approximately 16.2 ft above NGVD.

PERIOD OF RECORD.--May 1983 to April 1993 (semiannual), May 1993 to September 1994 (monthly), October 1994 to September 1996 (quarterly), October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.83 ft NGVD Aug. 21, 2003; lowest, 2.62 ft below NGVD, Apr. 25, 2002.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
17...	1448	7.97	21...	1420	-.01
NOV			MAY		
18...	1158	5.37	19...	1532	-.64
DEC			JUN		
16...	1342	3.13	09...	1252	-1.15
JAN			JUL		
27...	1246	1.76	27...	1317	5.82
FEB			SEP		
18...	1447	2.39	01...	1128	11.33
MAR			22...	0922	11.10
23...	1442	-.14			



LEE COUNTY—Continued

WELL NUMBER.--262351081485401. Local Number L 5730.

LOCATION.--Lat 26°23'52", long 81°48'53", in NE $^1/_4$ SW $^1/_4$ sec.9, T.47 S., R.25 E., Hydrologic Unit 03090204, 100 ft south of Coconut Road, 0.15 mi west of U.S. Highway 41, 5 mi north of Bonita Springs.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 40 ft, cased to 27 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 16.34 ft above National Geodetic Vertical Datum of 1929.

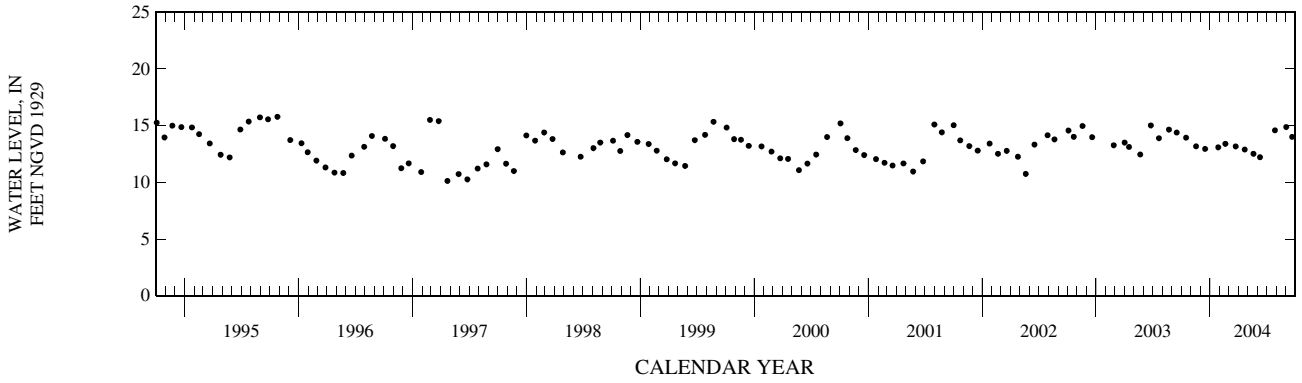
LAND-SURFACE DATUM.--Land surface is approximately 16.2 ft above NGVD.

PERIOD OF RECORD.--October 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.77 ft NGVD, Oct. 25, 1995; lowest, 9.64 ft NGVD, May 22, 1990.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
16...	1359	13.93	21...	0943	12.89
NOV			MAY		
17...	1514	13.17	19...	1634	12.51
DEC			JUN		
16...	1511	12.94	09...	1337	12.21
JAN			JUL		
27...	0908	13.08	27...	1513	14.58
FEB			SEP		
19...	0946	13.39	01...	1400	14.87
MAR			20...	1605	14.00
23...	1541	13.16			



LEE COUNTY—Continued

WELL NUMBER.--262435081535001. Local Number L 1635.

LOCATION.--Lat 26°24'38", long 81°53'48", in NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.3, T.47 S., R.24 E., Hydrologic Unit 03090204, at Bay Beach Golf Course, 120 ft north of golf shop, 0.2 mi east of Estero Boulevard on Bay Beach Lane, 0.5 mi southeast of Matanzas Pass Bridge and 4.5 mi southeast of Fort Myers Beach Post Office.

AQUIFER.--Lower Hawthorn aquifer of the Oligocene to Miocene Age, Geologic Unit 122 LMSN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 620 ft, cased to 360 ft, open hole 360 to 620 ft.

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

DATUM.--Measuring point: Top of flange on gate valve, 1.6 ft above National Geodetic Vertical Datum of 1929. (Corrected).

LAND-SURFACE DATUM.--Land surface is approximately 3.5 ft above NGVD.

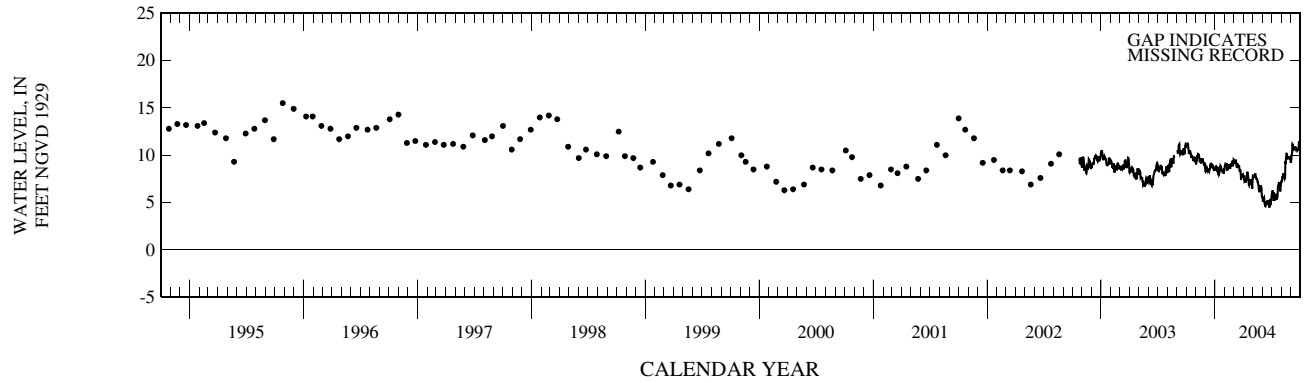
REMARKS.--Records of water levels prior to October 1975 are available in files of U.S. Geological Survey.

PERIOD OF RECORD.--February 1975 to September 1993 (monthly), October 1993 to September 1994 (intermittent), October 1994 to September 2002 (monthly), October 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.7 ft NGVD, Sept. 27, 1979; lowest, 4.47 ft NGVD, June 23, 2004.

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	11.25	9.69	8.75	8.84	8.85	9.43	7.37	7.60	5.42	5.91	7.58	11.16
10	10.23	10.02	8.45	8.67	8.61	8.84	7.37	7.72	4.61	5.33	7.76	10.72
15	10.16	9.42	8.47	8.28	9.04	8.85	7.90	7.45	5.05	5.87	9.51	10.86
20	9.84	9.52	8.85	8.69	9.04	8.26	7.08	6.42	4.96	6.58	9.80	10.48
25	9.38	9.14	8.75	8.31	9.07	7.80	7.39	6.86	5.34	7.03	9.73	10.91
EOM	9.45	8.66	8.40	8.49	9.49	7.60	7.39	5.66	5.69	7.10	9.29	10.53
MAX	11.25	10.14	9.18	8.91	9.49	9.43	8.25	8.11	5.69	7.20	10.16	11.48



LEE COUNTY—Continued

WELL NUMBER.--262435081535101. Local Number L 1634.

LOCATION.--Lat 26°24'38", long 81°53'48", in NE ¼ NE ¼ SW ¼ sec.3, T.47 S., R.24 E., Hydrologic Unit 03090204, at Bay Beach Golf Course 100 ft north of golf shop, 0.2 mi east of Estero Boulevard on Bay Beach Lane, 5 mi southeast of Matanzas Pass Bridge and 4.5 mi southeast of Fort Myers Beach Post Office.

AQUIFER.--Suwannee aquifer of the Oligocene Age, Geologic Unit 123 SWNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 950 ft, cased to 740 ft, open hole 740 to 950 ft.

INSTRUMENTATION.--Monthly measurement with pressure gage.

DATUM.--Measuring point: Top of 6 in. elbow, 5.88 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 3.3 ft above NGVD.

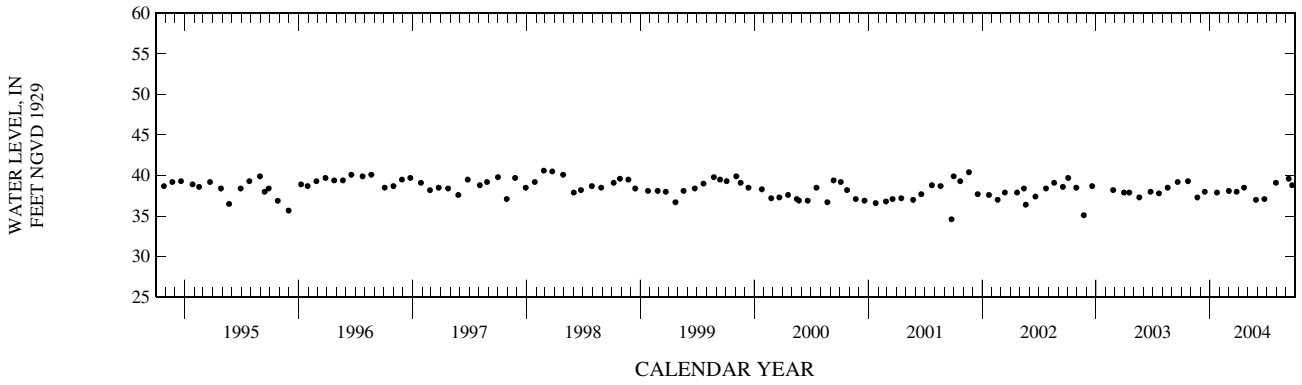
REMARKS.--Records of water levels, prior to October 1975, are available in the files of the U. S. Geological Survey.

PERIOD OF RECORD.--January 1975 to September 1993 (monthly), October 1993 to September 1994 (intermittent), October 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 41.3 ft NGVD, July 27, 1988; lowest, 27.6 ft NGVD, July 23, 1991.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
22...	1030	39.3	19...	1423	38.5
NOV			MAY		
21...	1254	37.3	27...	1346	37.0
DEC			JUN		
15...	1445	38.0	23...	1459	37.1
JAN			JUL		
23...	1400	37.9	30...	1313	39.1
MAR			SEP		
01...	1318	38.1	09...	1210	39.6
26...	1438	38.0	20...	1253	38.8



LEE COUNTY—Continued

WELL NUMBER.--262513081432601. Local Number L 5667.

LOCATION.--Lat 26°25'17", long 81°43'26", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.33, T.46 S., R.26 E., Hydrologic Unit 03090204, 2.4 mi south of Corkscrew Road, 5.35 mi east of U.S. Highway 41, and 6.0 mi east of Estero Post Office.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 32 ft, open hole 22 to 32 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of casing, 20.10 ft above National Geodetic Vertical Datum of 1929. From October 1992 to October 2001, measuring point was incorrectly considered to be 19.09 ft above NGVD. From April 1983 to September 1992, measuring point was incorrectly considered to be 18.80 ft above NGVD.

LAND-SURFACE DATUM.--Land surface datum is approximately 18.2 ft above NGVD.

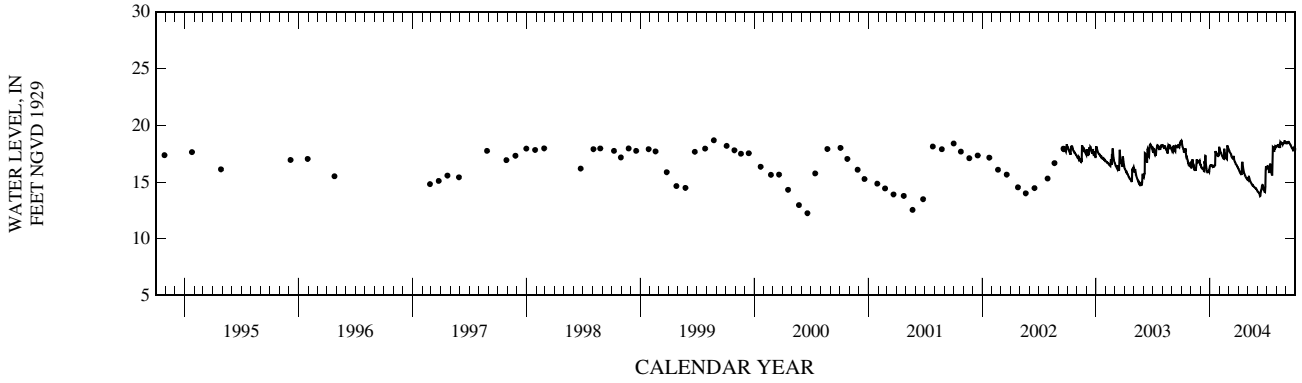
REMARKS.--Well also used for salinity monitoring until April, 1993. The figures of water levels as elevation, in ft NGVD, from April 1983 to October 2001, are in error. +1.01 ft correction has been applied to water-level records, from October 1992 to September 2001. A +1.30 ft correction has been applied to water-level records from April 1983 to September 1992. See DATUM. Corrected records are available in the files of the U.S. Geological Survey.

PERIOD OF RECORD.--April 1983 to April 1993 (semiannual), October 1993 to September 1994 (monthly), October 1994 to September 1996 (quarterly), February 1997 to August 2002 (monthly), September 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.67 ft (present datum) NGVD, Aug. 24, 1999; lowest, 12.25 ft (present datum) NGVD, June 19, 2000.

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	18.10	17.00	16.24	16.49	17.55	17.57	15.91	15.39	14.06	16.31	18.22	18.51
10	17.69	16.28	16.22	16.44	17.21	17.27	15.67	15.00	13.79	16.35	18.17	18.48
15	17.54	16.06	16.60	16.41	17.93	17.06	16.33	14.74	14.69	15.90	18.41	18.25
20	17.01	16.88	16.17	17.52	17.18	16.79	15.75	14.59	14.46	18.08	18.36	17.99
25	16.62	16.81	15.93	17.30	18.17	16.51	15.41	14.45	14.13	17.95	18.43	17.82
EOM	16.31	16.52	16.34	18.03	17.93	16.23	15.26	14.26	16.11	18.07	18.42	17.97
MAX	18.65	17.00	17.31	18.03	18.17	17.86	16.77	15.44	16.39	18.17	18.59	18.54



LEE COUNTY—Continued

WELL NUMBER.--262513081472001. Local Number L 5669R.

LOCATION.--Lat 26°25'13", long 81°47'20", in NW $^1/_4$ NW $^1/_4$ NW $^1/_4$ sec.2, T.7 S., R.25 E., Hydrologic Unit 03090204, 20 ft south of Williams Road, 1.3 mi east of U.S. Highway 41 (Tamiami Trail). (Corrected).

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 33 ft, cased to 25 ft, screened 25 to 30 ft, open hole 30 to 33 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of 4 in. casing, 18.06 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 15.8 ft above NGVD.

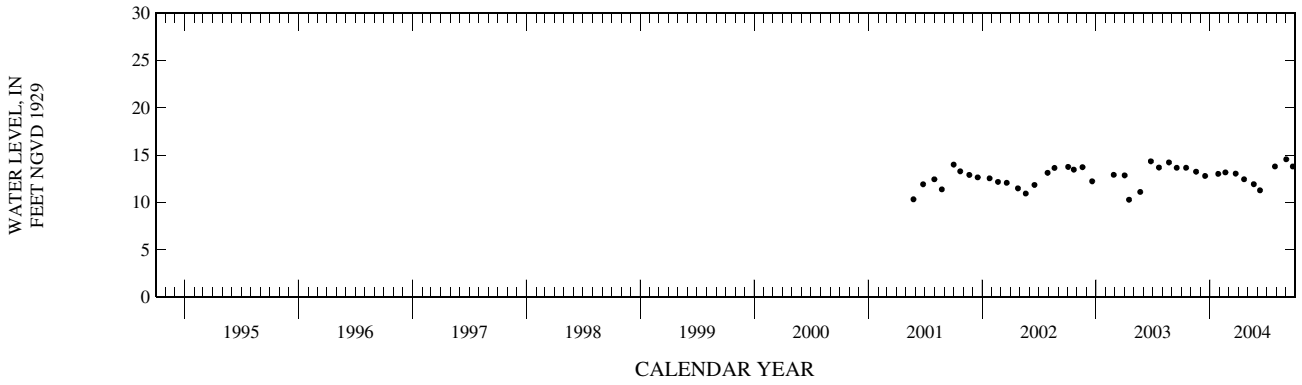
REMARKS.--Replacement for well L-5669, which was destroyed by road construction.

PERIOD OF RECORD.--May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.57 ft NGVD, Sept. 1, 2004; lowest, 10.30 ft NGVD, Apr. 16, 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
16...	1346	13.68	19...	1513	12.46
NOV			MAY		
17...	1522	13.26	20...	1043	11.94
DEC			JUN		
16...	1522	12.81	09...	1348	11.29
JAN			JUL		
27...	0856	13.03	27...	1523	13.81
FEB			SEP		
19...	1102	13.19	01...	1407	14.57
MAR			22...	1044	13.81
23...	1557	13.06			



LEE COUNTY—Continued

WELL NUMBER.--262514081393402. Local Number L 5664.

LOCATION.--Lat 26°25'16", long 81°39'38", in SE ¼ SE ¼ SE ¼ sec.36, T.46 S., R.26 E., Hydrologic Unit 03090204, on 6-L Ranch Road, 6 mi east of U.S. Interstate 75, and 2 mi south of Corkscrew Road, 8 mi southeast of Estero Post Office.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 300 ft, cased to 180 ft, open hole 180 to 300 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 21.28 ft above National Geodetic Vertical Datum of 1929. From October 1991 to January 1998, measuring point was top of coupling 24.12 ft above NGVD. Prior to October 1991, top of coupling was considered to be 22.92 ft above NGVD.

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

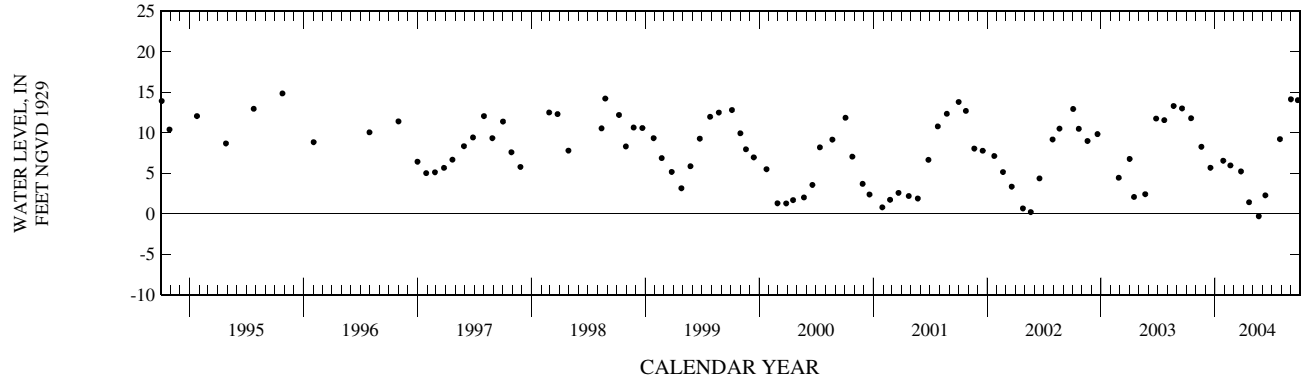
REMARKS.--Records of water levels, prior to October 1983, are available in the files of the U.S. Geological Survey. The figures of water levels, as elevation in feet NGVD, prior to October 1991, are in error. Corrected records are in the files of the U.S. Geological Survey. See DATUM. Well was monitored for salinity from October 1982 to April 1993.

PERIOD OF RECORD.--November 1982 to September 1994 (monthly), October 1994 to September 1996 (quarterly), October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.55 ft NGVD, July 31, 1984; lowest, 0.27 ft below NGVD, May 20, 2004.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
16...	1320	11.82	19...	1419	1.46
NOV			MAY		
18...	1038	8.30	20...	1016	-.27
DEC			JUN		
17...	0919	5.71	10...	0918	2.31
JAN			JUL		
27...	1608	6.58	27...	0958	9.24
FEB			AUG		
19...	1303	6.00	31...	1349	14.16
MAR			SEP		
24...	0900	5.26	22...	1012	14.05



LEE COUNTY—Continued

WELL NUMBER.--262538082045701. Local Number L 588.

LOCATION.--Lat 26°25'43", long 82°04'55", in NE ¼ NW ¼ sec.35, T.46 S., R.22 E., Hydrologic Unit 03100103, 15 ft south of interpretive sign, 0.1 mi west of Tarpon Bay Road at Ding Darling Wildlife Refuge-Bailey Tract and 0.7 mi south of Sanibel Post Office.

AQUIFER.--Lower Hawthorn aquifer of the Oligocene to Miocene Age, Geologic Unit 122 LMSN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 557 ft, cased to 403 ft, open hole 403 to 557 ft.

INSTRUMENTATION.--Electronic data logger with pressure transducer.

DATUM.--Measuring point:"X" on 10 in. casing, 4.14 ft above National Geodetic Vertical Datum of 1929. From January 6, 1999 to May 23, 2002, measuring points were top of faucet and center of pressure transducer, 6.40 ft and 6.15 ft above NGVD respectively. From February 14, 1977 to January 6, 1999, measuring point was top of 2 in. elbow, 4.59 ft above NGVD. From January 1964 to February 1977, measuring point was top of 6 in. steel coupling, 4.09 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 2.7 ft above NGVD.

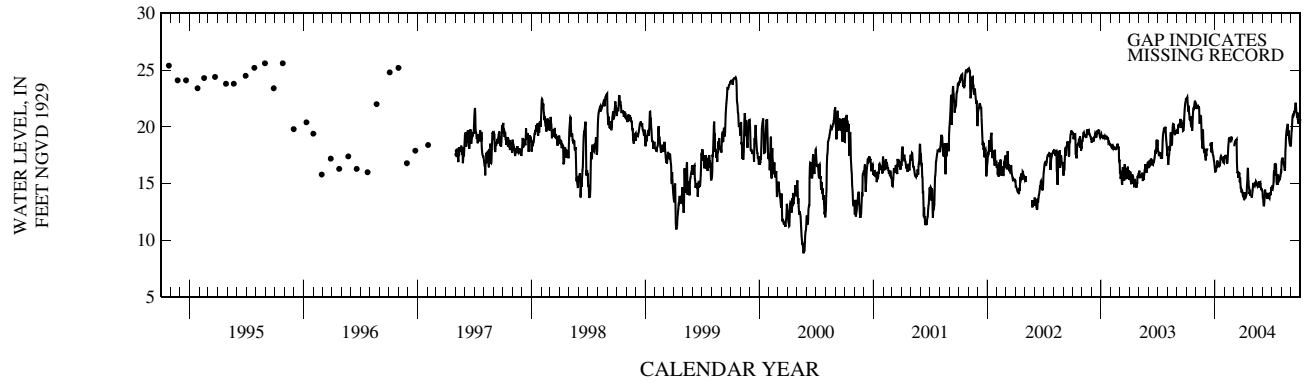
REMARKS.--Water levels affected by nearby pumping. Records of water levels prior to October 1978 are available in the files of the U.S. Geological Survey. Changes in measuring point elevation, February 1997, January 1999, and May 2002, were the result of station reconstruction.

PERIOD OF RECORD.--January 1964 to September 1993 (monthly), October 1993 to September 1994 (semiannual), October 1994 to February 1997 (monthly), May 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.80 ft NGVD, Oct. 7, 1992; lowest, 4.6 ft NGVD, Apr. 18, 1977.

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	22.16	21.79	18.02	16.41	17.34	18.74	14.24	14.79	13.00	14.82	17.06	20.85
10	21.17	21.73	---	16.66	17.10	18.90	13.96	15.01	14.18	16.68	16.43	21.23
15	20.21	20.94	---	16.51	18.99	15.52	16.39	14.84	14.04	15.79	18.90	22.12
20	19.91	18.67	17.76	17.44	19.05	15.12	14.10	14.85	14.17	15.29	20.13	20.99
25	21.61	18.24	17.52	17.30	19.14	14.33	---	15.00	14.20	15.44	18.97	20.26
EOM	21.94	17.48	16.39	17.31	---	13.89	14.37	14.44	14.39	15.94	18.49	20.72
MAX	22.60	21.97	---	17.44	---	---	---	15.22	14.68	16.75	20.27	22.12



LEE COUNTY—Continued

WELL NUMBER.--262549082035301. Local Number L 1403.

LOCATION.--Lat 26°25'55", long 82°03'55", in SE ¼ NE ¼ SW ¼ sec.25, T.46 S., R.22 E., Hydrologic Unit 03100103, 10 ft north of Casa Ybel Road, 0.9 mi south of intersection of Periwinkle Way and Casa Ybel Road and 1.1 mi southeast of Sanibel Post Office.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 12 ft, cased to 3.0 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of recorder shelf, 8.58 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 4.6 ft above NGVD. (Corrected).

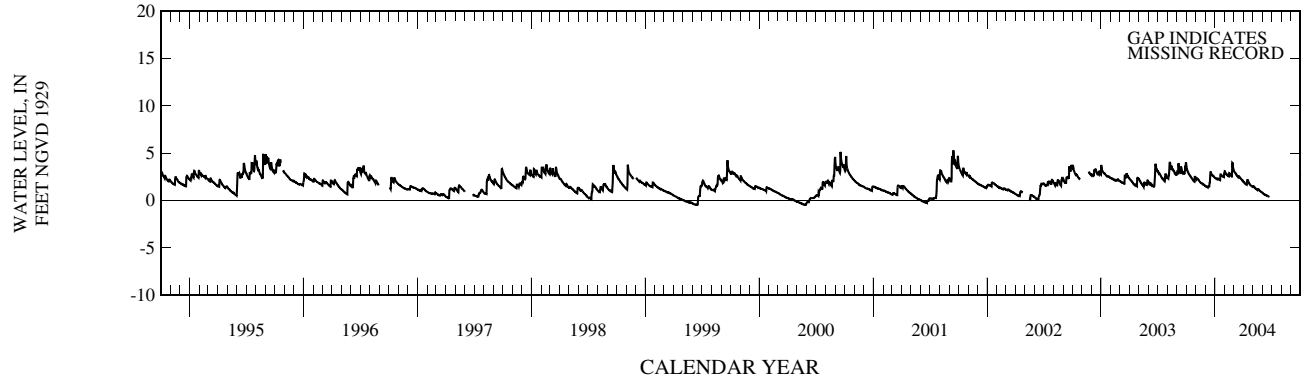
REMARKS.--Records of water levels, prior to October 1973, are available in the files of the U.S. Geological Survey.

PERIOD OF RECORD.--February 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 5.30 ft NGVD, Sept. 14, 2001; lowest, 0.62 ft below NGVD, June 17, 1989.

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	3.14	2.33	1.46	2.32	2.84	2.92	1.84	1.47	0.68	---	---	---
10	2.75	2.13	1.48	2.33	2.63	2.71	1.69	1.26	0.60	---	---	---
15	2.52	1.91	1.90	2.20	2.90	2.47	2.15	1.12	0.54	---	---	---
20	2.27	1.82	2.81	2.75	2.67	2.44	1.79	1.15	0.43	---	---	---
25	2.04	1.67	2.63	2.55	4.00	2.24	1.59	0.97	---	---	---	---
EOM	2.36	1.54	2.41	2.94	3.25	2.04	1.45	0.84	---	---	---	2.76
MAX	3.55	2.34	3.01	2.94	4.00	3.16	2.18	1.49	---	---	---	---



LEE COUNTY—Continued

WELL NUMBER.--262552081485702. Local Number L 2295.

LOCATION.--Lat 26°25'53", long 81°48'54", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.33, T.46 S., R.25 E., Hydrologic Unit 03090204, at entrance to Koreshan State Park, 0.3 mi west of U.S. Highway 41, and 2.1 mi southeast of Estero Post Office.

AQUIFER.--Lower Hawthorn aquifer of the Oligocene to Miocene Age, Geologic Unit 122 LMSN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 610 ft, cased to 300 ft, open hole 300 to 610 ft.

INSTRUMENTATION.--Monthly measurement with pressure gage.

DATUM.--Measuring point: Top of 4 in. cap, 15.32 ft above National Geodetic Vertical Datum of 1929. Prior to March 2000, measuring point was top of casing, 18.01 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 15.7 ft above NGVD.

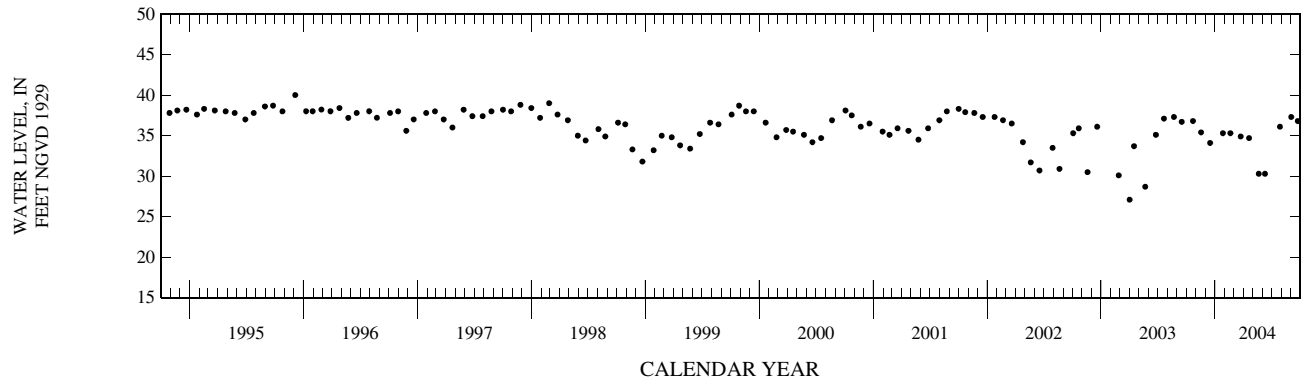
REMARKS.--Records of water levels, prior to October 1976, are available in files of the U.S. Geological Survey. Well was monitored for salinity from June 1978 to April 1993. Well casing cut for curb box installation, February 25, 2000. See DATUM.

PERIOD OF RECORD.--July 1976 to September 1993 (monthly), October 1993 to September 1994 (intermittent), October 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 40.3 ft NGVD, Oct. 29, 1987; lowest, 27.1 ft NGVD, Apr. 2, 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
22...	1253	36.8	19...	1604	34.7
NOV			MAY		
17...	1540	35.4	20...	1052	30.3
DEC			JUN		
16...	1530	34.1	09...	1404	30.3
JAN			JUL		
26...	0844	35.3	27...	1531	36.1
FEB			SEP		
19...	0935	35.3	01...	1420	37.3
MAR			22...	1053	36.8
23...	1605	34.9			



LEE COUNTY—Continued

WELL NUMBER.--262552081485703. Local Number L 2308.

LOCATION.--Lat 26°25'53", long 81°48'54", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.33, T.46 S., R.25 E., Hydrologic Unit 03090204, at entrance to Koreshan State Park, 0.3 mi west of U.S. Highway 41, and 2.1 mi southeast of Estero Post Office.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 13.5 ft, cased to 12 ft, open hole 12 to 13.5 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 15.71 ft above National Geodetic Vertical Datum of 1929. Prior to February 25, 2000, top of casing was 17.99 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 15.5 ft above NGVD.

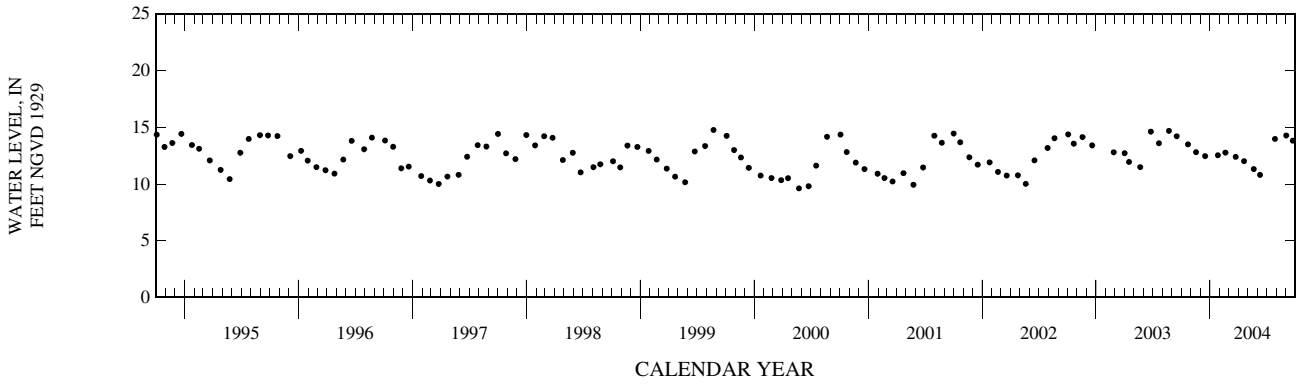
REMARKS.--Well casing cut to accommodate nearby construction, February 25, 2000. See DATUM.

PERIOD OF RECORD.--July 1976 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.81 ft NGVD, Sept. 28, 1984; lowest, 8.30 ft NGVD, May 28, 1982.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
22...	1250	13.49	19...	1606	12.01
NOV			MAY		
17...	1537	12.80	20...	1054	11.31
DEC			JUN		
16...	1532	12.45	09...	1358	10.80
JAN			JUL		
26...	0845	12.53	27...	1534	13.97
FEB			SEP		
19...	0933	12.76	01...	1421	14.27
MAR			22...	1055	13.81
23...	1607	12.39			



LEE COUNTY—Continued

WELL NUMBER.--262605081425901. Local Number L 5874.

LOCATION.--Lat 26°26'05", long 81°42'59", in NE ¼ NW ¼ sec.33, T.46 S., R.26 E., Hydrologic Unit 03090204, 0.3 mi south of Corkscrew Road, 1 mi southwest of Alico Road, 10 mi west of U.S. Interstate 75, near Immokalee.

AQUIFER.--Lower Tamiami aquifer of the Pleistocene Age, Geologic Unit 121 TMIM. See REMARKS.

WELL CHARACTERISTICS.--Drilled, observation, diameter 2 in., depth 60 ft. See REMARKS.

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

DATUM.--Measuring point: Top of casing, 19.26 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 15.8 ft above NGVD.

REMARKS.--Well construction information was not available. Well depth and diameter are based on field measurements. The open interval of the well is unknown. The well may be partially open to the lower Tamiami aquifer but the bottom of the well is below the base of the lower Tamiami aquifer and above the top of the sandstone aquifer of Miocene age (Geologic unit 122 SNDS). See AQUIFER and WELL CHARACTERISTICS.

PERIOD OF RECORD.--July 2003 to current year.

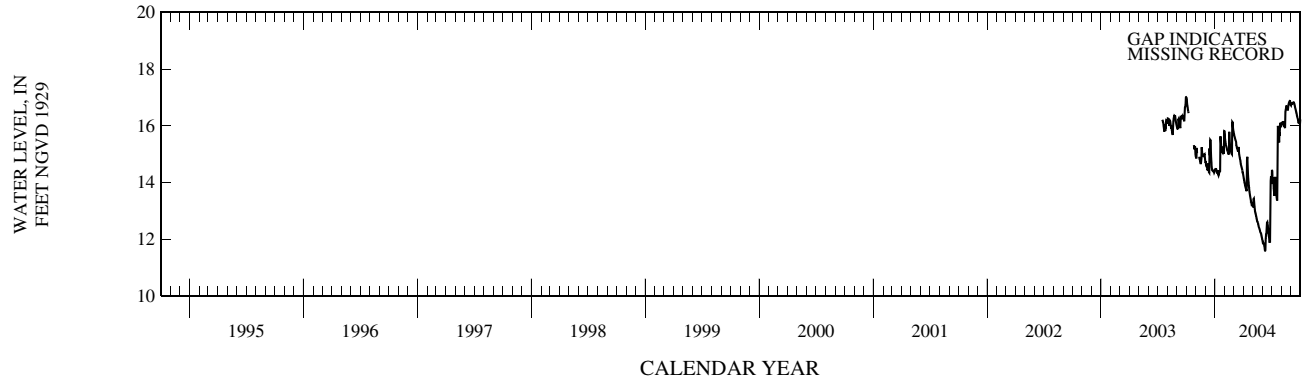
EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 17.01 ft NGVD, Sept. 30, 2003; lowest, 11.58 ft NGVD, June 9, 2004.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	---	---	16.15	16.22
10	---	---	---	---	---	---	---	---	---	---	16.17	15.98
15	---	---	---	---	---	---	---	---	---	---	15.85	16.34
20	---	---	---	---	---	---	---	---	---	15.99	16.16	16.33
25	---	---	---	---	---	---	---	---	---	15.82	16.35	16.39
EOM	---	---	---	---	---	---	---	---	---	16.07	16.00	17.01
MAX	---	---	---	---	---	---	---	---	---	---	16.36	17.01

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	16.65	---	14.56	14.46	15.32	15.55	13.97	13.30	11.85	14.11	16.16	16.80
10	---	---	14.68	14.43	15.11	15.30	13.75	12.90	11.61	13.97	15.99	16.82
15	---	14.73	14.96	14.37	15.79	15.12	14.32	12.63	12.59	13.63	16.59	16.58
20	---	15.10	14.70	15.34	15.15	14.87	13.70	12.44	12.25	16.00	16.61	16.32
25	15.32	14.98	14.41	15.05	16.14	14.57	13.35	12.25	11.89	15.78	16.79	16.09
EOM	14.92	14.76	14.43	15.81	15.79	14.29	13.30	12.01	13.95	16.01	16.72	16.23
MAX	---	---	15.51	15.82	16.14	15.75	14.91	13.44	14.22	16.11	16.88	16.83



LEE COUNTY—Continued

WELL NUMBER.--262622082074401. Local Number L 2524.

LOCATION.--Lat 26°26'23", long 82°07'44", in NE ¼ NW ¼ sec.29, T.46 S., R.21 E., Hydrologic Unit 03100103, at end of West Gulf Drive, north of road, 4.0 mi south of Sanibel Post Office. (Corrected).

AQUIFER.--Lower Hawthorn aquifer of the Oligocene to Miocene Age, Geologic Unit 122 LMSN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 625 ft, cased to 512 ft, open hole 512 to 625 ft.

INSTRUMENTATION.--Monthly measurement with pressure gage or chalked tape.

DATUM.--Measuring point for pressure gage: Top of 8 in. casing, 7.66 ft above National Geodetic Vertical Datum of 1929. Measuring point for tapedown with chalked tape: Top of well cap, 7.86 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 5.2 ft above NGVD.

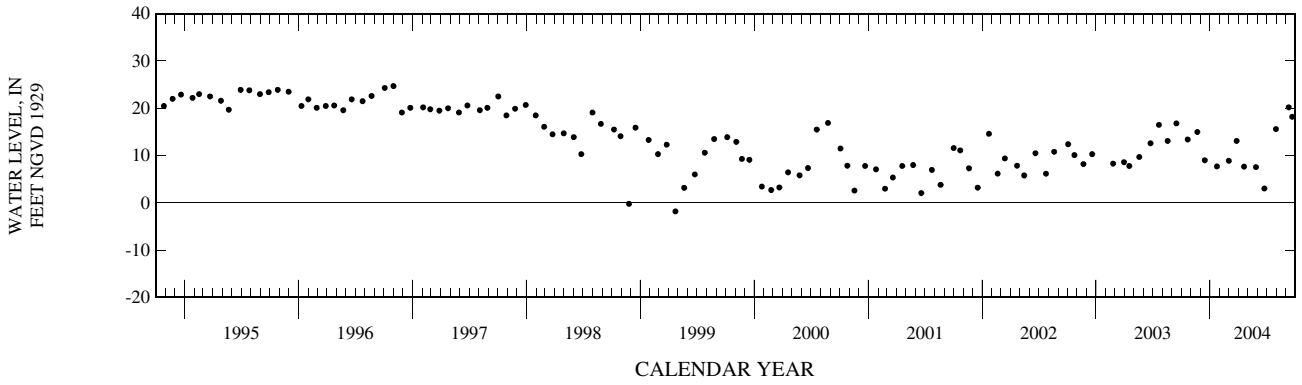
REMARKS.--Records of water levels, prior to October 1983, are available in the files of the U.S. Geological Survey. There is uncertainty as to the measuring point used prior to 1999.

PERIOD OF RECORD.--October 1977 to September 1993 (monthly), October 1993 to September 1994 (semiannual), October 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.2 ft NGVD, June 7, 1978; lowest, 1.81 ft below NGVD, Apr. 23, 1999.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
21...	1546	13.4	19...	1105	7.66
NOV			MAY		
21...	0953	15.0	27...	1029	7.57
DEC			JUN		
15...	1212	9.0	23...	1242	3.04
JAN			JUL		
23...	1123	7.71	30...	1024	15.6
MAR			SEP		
01...	1032	8.9	09...	1047	20.2
26...	1246	13.1	20...	1150	18.2



LEE COUNTY—Continued

WELL NUMBER.--262630081484801. Local Number L 5844.

LOCATION.--Lat 26°26'17", long 81°50'04", in SW $^1/_4$ SW $^1/_4$ SW $^1/_4$ sec.29, T.46 S., R.24 E., Hydrologic Unit 03090204, 0.25 mi southwest of intersection of Park Place and Coconut Drive, 300 ft west of Coconut Drive, 500 ft east of Park Place and 1.8 mi west of Estero Post Office.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 35 ft, cased to 25 ft, screened from 25 to 35 ft.

INSTRUMENTATION.--Satellite data collection platform, with pressure transducer. Converted to electronic data logger with pressure transducer October 2004.

DATUM.--Measuring point: Top of base, 10.00 ft above National Geodetic Vertical Datum of 1929.

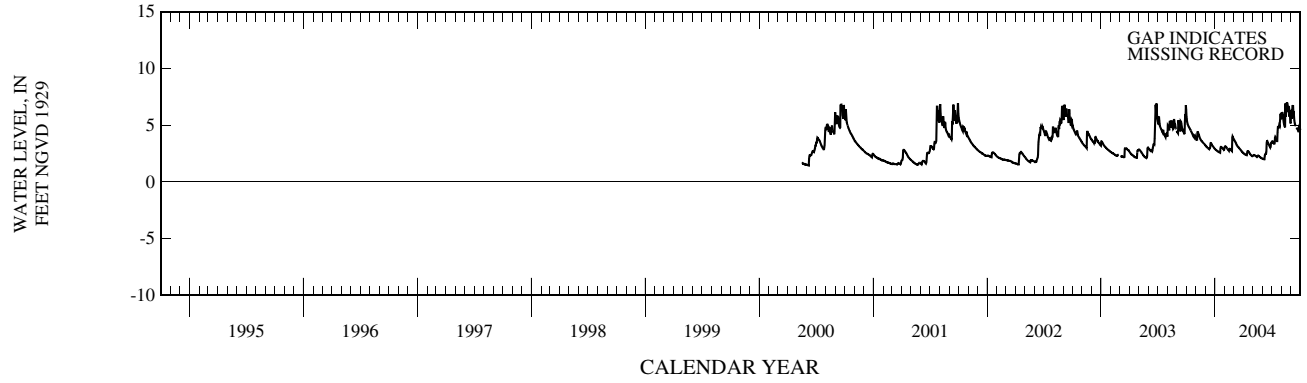
LAND-SURFACE DATUM.--Land surface is approximately 6.9 ft above NGVD.

PERIOD OF RECORD.--May 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 6.99 ft NGVD, Aug. 19, 2004; lowest, 1.46 ft NGVD, June 7, 2000.

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	5.13	4.38	3.09	2.79	3.09	3.56	2.44	2.38	2.01	3.47	5.86	6.67
10	4.79	4.15	2.95	2.70	2.89	3.30	2.38	2.29	2.46	3.47	4.96	5.76
15	4.54	3.78	2.97	2.60	2.87	3.07	2.72	2.25	3.59	3.76	5.77	4.97
20	4.22	3.58	3.36	3.08	2.83	2.91	2.57	2.29	3.38	4.82	6.81	4.67
25	4.04	3.40	3.15	2.97	3.85	2.74	2.36	2.16	3.08	4.97	6.54	4.47
EOM	3.86	3.25	2.91	2.97	3.81	2.56	2.28	2.06	3.46	5.52	6.36	4.57
MAX	5.76	4.40	3.42	3.08	4.01	3.76	2.72	2.38	3.61	6.02	6.99	---



LEE COUNTY—Continued

WELL NUMBER.--262630081484802. Local Number L 5808.

LOCATION.--Lat 26°26'16", long 81°50'04", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.29, T.46 S., R.25 E., Hydrologic Unit 03090205, 0.25 mi southwest of intersection of Park Place and Coconut Drive, 300 ft west of Coconut Drive, 500 ft east of Park Place and 1.8 mi west of Estero Post Office.

AQUIFER.--Mid-Hawthorn aquifer of the Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 2 in., depth 208 ft, cased to 192 ft, screened from 192 to 208 ft.

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

DATUM.--Measuring point: Top of casing, 8.61 ft above National Geodetic Vertical Datum of 1929.

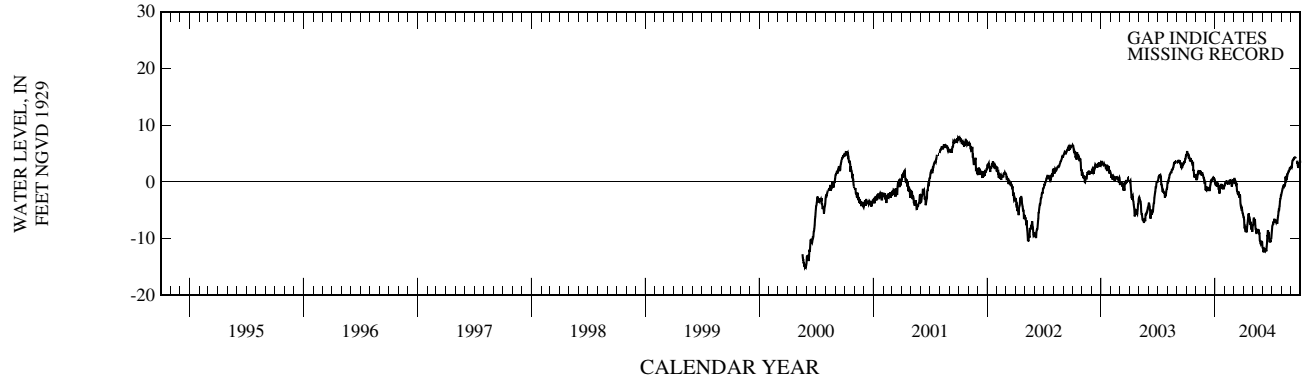
LAND-SURFACE DATUM.--Land surface is approximately 6.9 ft above NGVD.

PERIOD OF RECORD.--May 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.78 ft NGVD, Sept. 29, 2001, Oct. 3, 2001; lowest, 15.04 ft below NGVD, May 29, 2000.

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	5.01	0.80	-0.96	-0.74	-0.02	0.34	-8.16	-6.55	-12.08	-7.45	-1.09	3.71
10	4.43	1.67	-1.41	-0.27	-0.25	-0.33	-8.00	-8.29	-12.11	-6.90	-0.78	4.22
15	4.21	1.84	-1.31	-2.05	-0.17	-2.31	-6.62	-8.59	-10.82	-7.18	0.53	4.41
20	3.40	1.56	0.39	-0.49	0.15	-2.29	-6.18	-8.49	-9.04	-6.26	1.25	3.36
25	1.66	0.70	0.72	-0.64	-0.37	-4.62	-7.94	-10.74	-10.23	-4.36	1.93	2.76
EOM	1.23	-0.08	0.02	-0.69	0.26	-5.82	-7.95	-10.69	-9.22	-2.32	2.49	3.38
MAX	5.30	1.92	0.80	-0.10	0.32	0.55	-5.53	-6.29	-8.67	-2.32	2.50	---



LEE COUNTY—Continued

WELL NUMBER.--262657081443501. Local Number L 739.

LOCATION.--Lat 26°26'58", long 81°44'33", in NE ¼ SE ¼ NW ¼ sec.30, T.46 S., R.26 E., Hydrologic Unit 03090204, 13 ft north of Corkscrew Road, 2.6 mi east of U.S. Interstate 75, and 5.3 mi southeast of Estero Post Office.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 20 ft, cased to 18 ft, open hole 18 to 20 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 24.46 ft above National Geodetic Vertical Datum of 1929. From October 1993 to January 17, 2002, top of casing was 22.44 ft above NGVD, but considered to be 21.18 ft above NGVD until September 2000. From November 1, 1989 to September 1993, top of casing was 22.78 ft above NGVD, but considered to be 21.52 ft above NGVD. From October 1988 to November 1989, top of casing was 22.96 ft above NGVD, but considered to be 21.70 ft above NGVD. From August 30, 1985 to September 1988, top of casing was 24.91 ft above NGVD, but considered to be 23.65 ft above NGVD. Prior to August 30, 1985, top of casing was 21.52 ft above NGVD. From October 1974 to September 1977, measuring point was top of shelf, 21.65 ft above NGVD. The figures of water level as elevation, in feet NGVD, from August 30, 1985 to September 2000 are in error. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 21.9 ft above NGVD.

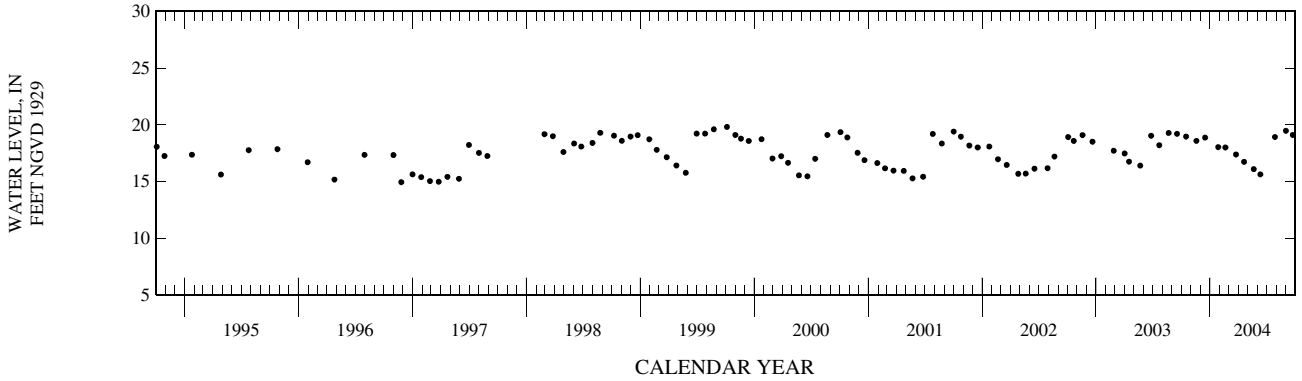
REMARKS.--Records of water levels prior to October 1974, are available in files of the U.S. Geological Survey. The published figures of water level as elevation, in feet NGVD, from August 30, 1985 to September 2000 are in error. A +1.26 ft correction has been applied to correct water-level data from August 30, 1985 to September 2000. Corrected records are in the files of the U.S. Geological Survey. See DATUM. The well has been reconstructed: August 30, 1985, June 21, 1994, (damaged October 1993), January 17, 2002. Well discontinued September 2004.

PERIOD OF RECORD.--August 1968 to September 1974 (bimonthly), October 1974 to September 1977 (daily), October 1977 to September 1994 (monthly), October 1994 to October 1996 (quarterly), November 1996 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.82 ft NGVD, Oct. 5, 1999; lowest, 13.03 ft NGVD, May 30, 1985.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
16...	1339	18.97	19...	0939	16.74
NOV			MAY		
18...	0829	18.59	20...	0812	16.10
DEC			JUN		
16...	0724	18.88	10...	0726	15.64
JAN			JUL		
27...	1625	18.04	27...	0711	18.93
FEB			AUG		
19...	1111	18.01	31...	0950	19.48
MAR			SEP		
24...	1309	17.39	22...	0954	19.11



LEE COUNTY—Continued

WELL NUMBER.--262659081382501. Local Number L 2192.

LOCATION.--Lat 26°27'01", long 81°38'27", in NE ¼ NW ¼ NW ¼ sec.29, T.46 S., R.27 E., Hydrologic Unit 03090204, 10 ft south of Corkscrew Road, 8.45 mi east of U.S. Interstate 75, and 11.6 mi east of Estero Post Office.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 184 ft, cased to 155 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 31.22 ft above National Geodetic Vertical Datum of 1929. From September 1992 to June 2002, measuring point was 31.06 ft above NGVD. Prior to September 1992, top of casing was 30.06 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 27.3 ft above NGVD.

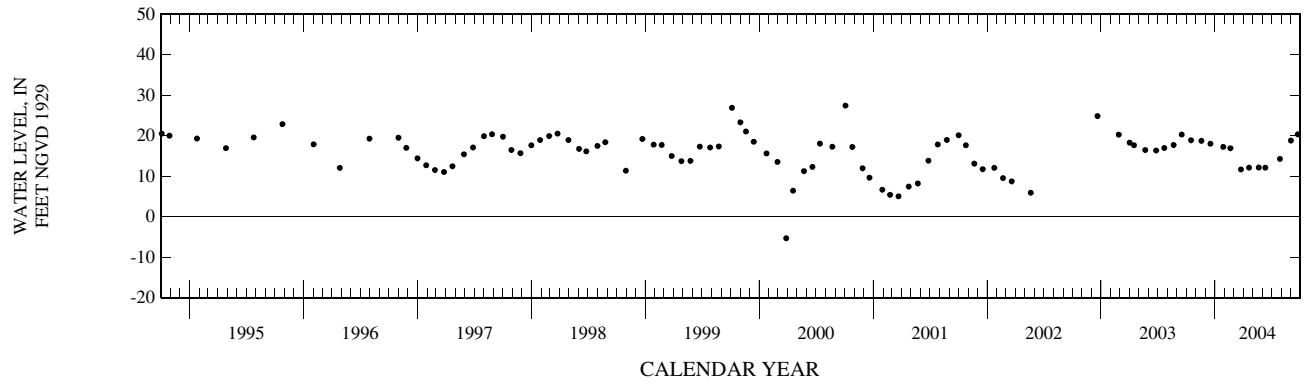
REMARKS.--Well was damaged in June 2002 and repaired December 2002. The well was originally open to the aquifer from 155 to 184 ft. The cased interval has collapsed or become obstructed at a depth of 28 ft.

PERIOD OF RECORD.--August 1975 to September 1994 (monthly), October 1994 to September 1996 (quarterly), October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.41 ft NGVD, Oct. 3, 2000; lowest, 5.32 ft below NGVD, Mar. 27, 2000.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
16...	1335	18.87	19...	1432	12.09
NOV			MAY		
18...	1048	18.72	20...	1023	12.14
DEC			JUN		
17...	0926	18.01	10...	0925	12.09
JAN			JUL		
27...	1600	17.22	27...	1005	14.25
FEB			AUG		
19...	1310	16.90	31...	1358	18.79
MAR			SEP		
24...	0851	11.66	22...	1020	20.32



LEE COUNTY—Continued

WELL NUMBER.--262703081340201. Local Number L 731.

LOCATION.--Lat 26°27'03", long 81°33'59", in NE $^1/_4$ NE $^1/_4$ sec.25, T.46 S., R.27 E., Hydrologic Unit 03090204, 21 ft south of Corkscrew Road, 5.6 mi south of State Road 82 and County Road 850 intersection, and 11.7 mi southeast of Lehigh Acres Post Office.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 243 ft, cased to 165 ft, open hole 165 to 243 ft.

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

DATUM.--Measuring point: Top of casing, 27.58 ft above National Geodetic Vertical Datum of 1929. Prior to October 1995, measuring point was top of shelf, 27.61 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is aproximately 24.4 ft above NGVD.

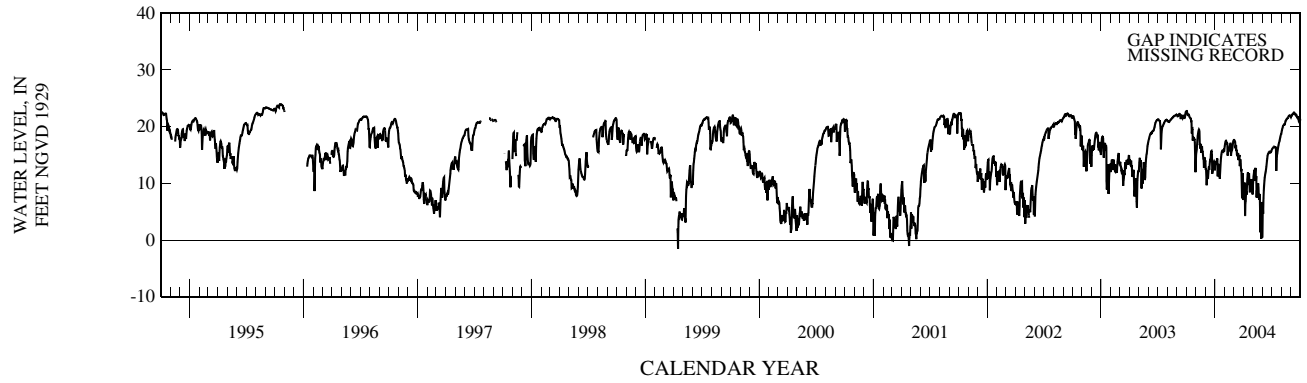
REMARKS.--Water levels affected by pumping wells. Records of water levels, prior to October 1973, are available in the files of the U.S. Geological Survey.

PERIOD OF RECORD.--August 1968 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 24.62 ft NGVD, Oct. 5, 1969; lowest, 7.86 ft below NGVD, Mar. 30, 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	22.05	17.64	9.67	13.81	17.50	17.34	10.11	12.19	8.76	16.31	19.95	22.19
10	21.82	19.47	11.64	12.18	14.89	15.91	8.61	12.71	11.80	16.37	20.39	22.45
15	21.40	16.10	13.79	11.99	16.07	15.32	11.93	8.03	14.00	12.16	21.08	22.15
20	19.56	16.52	15.69	14.60	17.00	13.03	10.38	7.38	15.25	16.01	21.51	21.60
25	18.01	14.18	12.32	15.74	16.05	12.54	9.58	1.34	15.52	17.39	21.90	21.10
EOM	13.41	13.92	12.29	16.03	17.57	9.67	8.02	0.40	15.78	18.66	21.65	21.05
MAX	22.75	19.47	15.69	16.03	17.57	17.65	11.93	12.71	15.78	18.66	21.96	22.45



LEE COUNTY—Continued

WELL NUMBER.--262703081340202. Local Number L 1138.

LOCATION.--Lat 26°27'03", long 81°33'59", in NE ¼ NE ¼ NE ¼ sec.25, T.46 S., R.27 E., Hydrologic Unit 03090204, 21 ft south of Corkscrew Road, 5.6 mi south of intersection of State Road 82 and County Road 850, and 11.7 mi southeast of Lehigh Acres Post Office.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 20 ft, cased to 15 ft, screened 15 to 20 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of cap, 27.69 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 24.4 ft above NGVD.

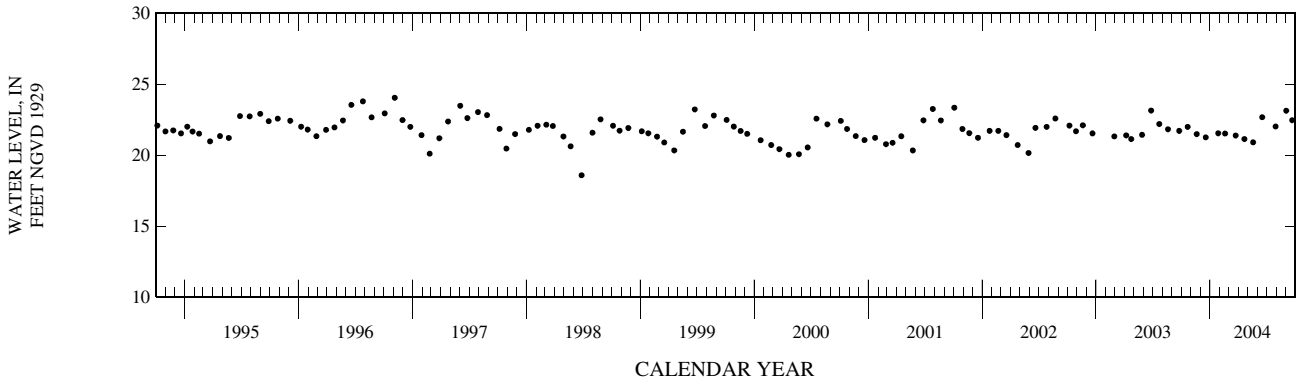
REMARKS.--Records of water levels, prior to October 1975, are available in the files of the U. S. Geological Survey.

PERIOD OF RECORD.--June 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.00 ft NGVD, Aug. 27, 1970; lowest, 18.59 ft NGVD, June 26, 1998.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
21...	1047	22.00	20...	1106	21.14
NOV			MAY		
19...	1656	21.49	18...	0906	20.91
DEC			JUN		
18...	0916	21.26	16...	0917	22.68
JAN			JUL		
27...	0840	21.55	29...	1012	22.03
FEB			SEP		
18...	0827	21.53	01...	1347	23.14
MAR			20...	0832	22.47
23...	1055	21.39			



LEE COUNTY—Continued

WELL NUMBER.--262703081340203. Local Number L 2313.

LOCATION.--Lat 26°27'03", long 81°33'59", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.25, T.46 S., R.27 E., Hydrologic Unit 03090204, 21 ft south of Corkscrew Road, 5.6 mi south of intersection of State Road 82 and County Road 850, and 11.7 mi southeast of Lehigh Acres Post Office.

AQUIFER.--Lower Hawthorn aquifer of the Oligocene to Miocene Age, Geologic Unit 122 LMSN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 670 ft, cased to 400 ft, open hole 400 to 670 ft.

INSTRUMENTATION.--Monthly measurement with pressure gage.

DATUM.--Measuring point: Top of 8 in. casing, 27.66 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 24.4 ft above NGVD.

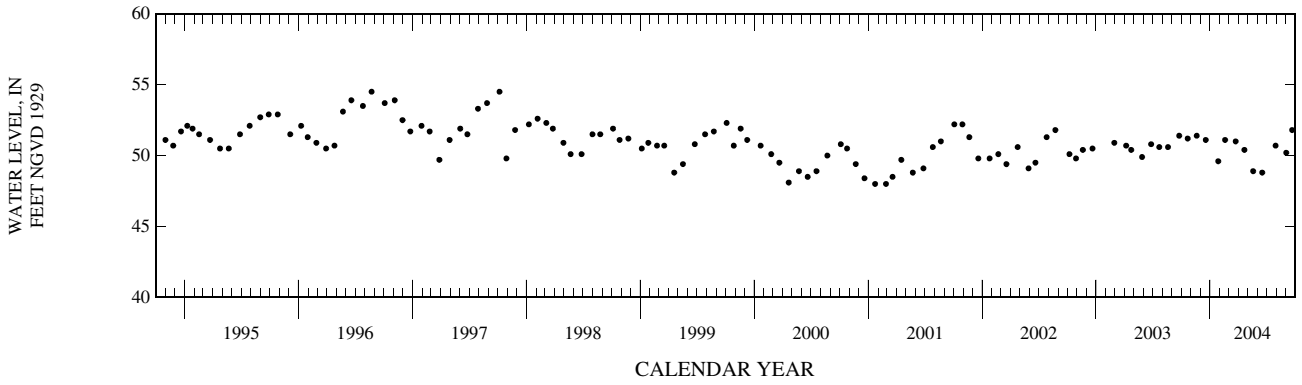
REMARKS.--Records of water levels, prior to October 1982, are available in the files of the U.S. Geological Survey.

PERIOD OF RECORD.--August 1976 to September 1993 (monthly), October 1993 to September 1994 (intermittent), October 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 54.5 ft NGVD, Nov. 24, 1987 and Aug. 22, 1996; lowest, 46.6 ft NGVD, June 28, 1978.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)
OCT		
21...	1050	51.2
NOV		
19...	1655	51.4
DEC		
18...	0918	51.1
JAN		
27...	0835	49.6
FEB		
18...	0828	51.1
MAR		
23...	1052	51.0
APR		
20...	0903	50.4
MAY		
18...	0907	48.9
JUN		
16...	0912	48.8
JUL		
29...	1011	50.7
SEP		
01...	1347	50.2
20...	0830	51.8



LEE COUNTY—Continued

WELL NUMBER.--262706081435401. Local Number L 1853.

LOCATION.--Lat 26°27'07", long 81°43'57", in NW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.20, T.46 S., R.26 E., Hydrologic Unit 03090204, 17 ft north of Corkscrew Road, 3.2 mi east of U.S. Interstate 75, and 6.0 mi east of Estero Post Office.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 210 ft, cased to 130 ft, open hole 130 to 210 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 24.80 ft above National Geodetic Vertical Datum of 1929. Prior to October 2000, measuring point was considered to be 24.73 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 22.0 ft above NGVD.

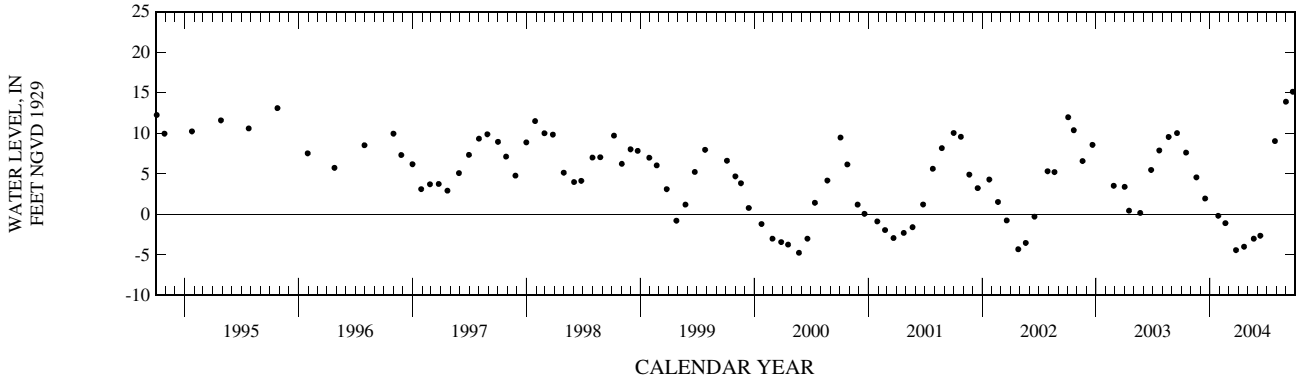
REMARKS.--Records of water levels prior to October 1975 are available in the files of the U.S. Geological Survey. Well was monitored for salinity from May 1981 to 1992. The casing is cracked at approximately 15 ft. In January 2002, the well was resurveyed. The figures of water level as elevation, in feet NGVD, prior to October 2000, are in error. A correction of +0.07 ft is required to correct the water-level data. See DATUM.

PERIOD OF RECORD.--November 1974 to September 1995 (monthly), October 1995 to September 1996 (quarterly), October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.13 ft NGVD, Sept. 22, 2004; lowest, 4.66 ft below NGVD, May 23, 2000 (present datum).

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
16...	0900	7.62	19...	0959	-3.99
NOV			MAY		
18...	0842	4.57	20...	0816	-3.00
DEC			JUN		
16...	0734	1.96	10...	0731	-2.63
JAN			JUL		
27...	1622	-.17	27...	0720	9.04
FEB			AUG		
19...	1114	-1.08	31...	0955	13.90
MAR			SEP		
24...	1306	-4.41	22...	0958	15.13



LEE COUNTY—Continued

WELL NUMBER.--262706082080201. Local Number L 5735.

LOCATION.--Lat 26°27'09", long 82°08'01", in NW ¼ SW ¼ NW ¼ sec.20, T.46 S., R.22 E., Hydrologic Unit 03100103, 1.8 mi northwest of intersection of Sanibel-Captiva Road and Rabbit Road.

AQUIFER.--Upper Floridan Aquifer of the Oligocene Age, Geologic Unit 120 UFAQ.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 1 ¼ in., depth 770 ft, cased to 740 ft, open hole 740 to 770 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape or pressure gage.

DATUM.--Measuring points: For pressure gage, top of flange, 4.50 ft above National Geodetic Vertical Datum of 1929; for chalked tape, top of 1 in. pipe casing, 5.37 ft above NGVD.

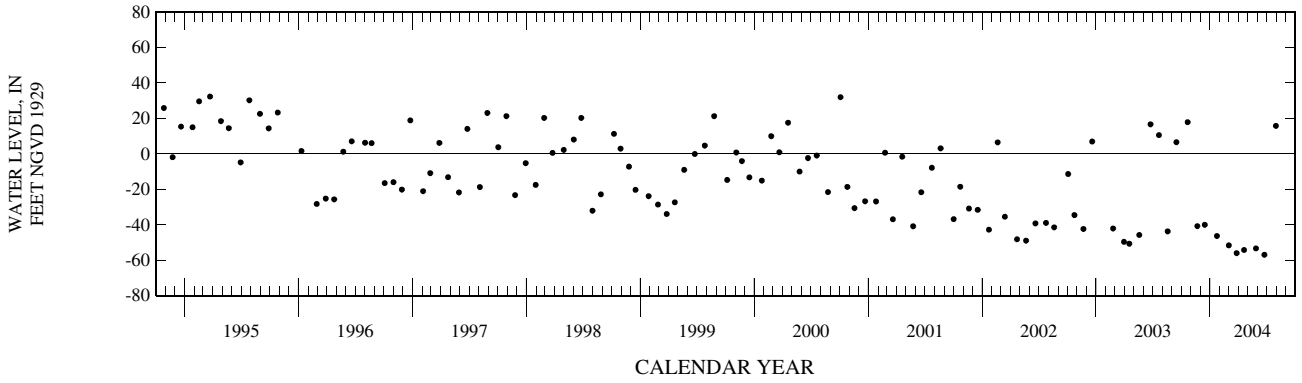
LAND-SURFACE DATUM.--Land surface is approximately 2.7 ft above NGVD.

PERIOD OF RECORD.--March 1987 to September 1993 (monthly), October 1993 to September 1994 (semiannual), October 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.33 ft NGVD, Mar. 23, 1995; lowest, 56.86 ft below NGVD, June 23, 2004.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)
OCT		
21...	1525	17.9
NOV		
21...	1023	-40.68
DEC		
15...	1155	-39.96
JAN		
23...	1055	-46.29
MAR		
01...	1013	-51.55
26...	1054	-55.96
APR		
19...	1048	-54.19
MAY		
27...	1003	-53.30
JUN		
23...	1226	-56.86
JUL		
30...	0958	15.8



LEE COUNTY—Continued

WELL NUMBER.--262706082080202. Local Number L 5737.

LOCATION.--Lat 26°27'09", long 82°08'01", in NW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.20, T.46 S., R.22 E., Hydrologic Unit 03100103, 1.8 mi northwest of intersection of Sanibel-Captiva Road and Rabbit Road on Sanibel Island.

AQUIFER.--Upper Floridan aquifer of the Oligocene Age, Geologic Unit 120 UFAQ.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 700 ft, cased to 665 ft, open hole 665 to 700 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape or pressure gage.

DATUM.--Measuring points: For pressure gage, top of steel flange, 4.50 ft above National Geodetic Vertical Datum of 1929; for chalked tape, top of 1 in. pipe, 5.85 ft above NGVD.

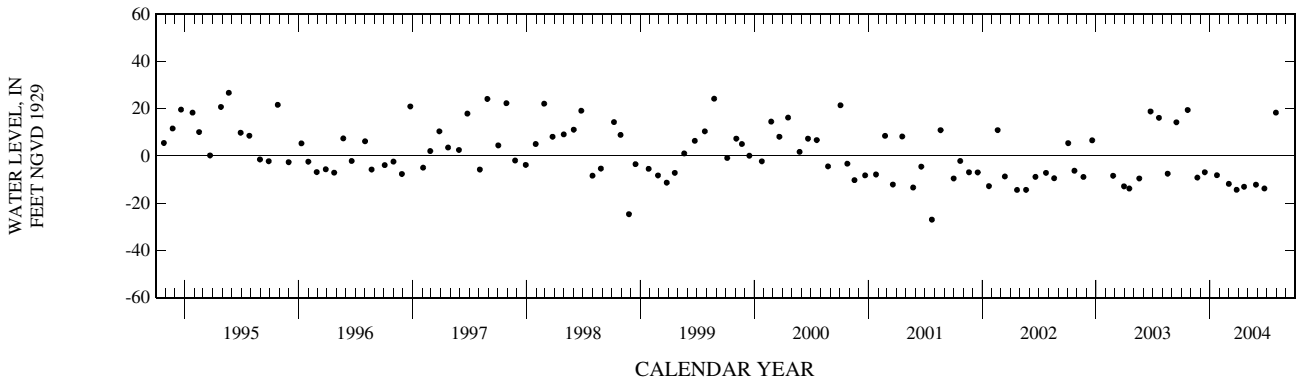
LAND-SURFACE DATUM.--Land surface is approximately 2.7 ft above NGVD.

PERIOD OF RECORD.--March 1987 to September 1993 (monthly), October 1993 to September 1994 (semiannual), October 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.7 ft NGVD, May 22, 1995; lowest, 26.95 ft below NGVD, July 23, 2001.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)
OCT		
21...	1522	19.4
NOV		
21...	1019	-9.16
DEC		
15...	1148	-6.91
JAN		
23...	1057	-8.16
MAR		
01...	1002	-11.80
26...	1050	-14.33
APR		
19...	1040	-13.05
MAY		
27...	1004	-12.17
JUN		
23...	1229	-13.78
JUL		
30...	1001	18.3



LEE COUNTY—Continued

WELL NUMBER.--262710082005301. Local Number L 585.

LOCATION.--Lat 26°27'11", long 82°00'55", in SW $^1/_4$ NE $^1/_4$ sec.21, T.46 S., R.23 E., Hydrologic Unit 03100103, 200 ft west of Sanibel Island Lighthouse, along trail from lighthouse to beach at Point Ybel, 7 mi east of Sanibel Post Office.

AQUIFER.--Lower Hawthorn aquifer of the Oligocene to Miocene Age, Geologic Unit 122 LMSN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 475 ft, cased to 335 ft.

INSTRUMENTATION.--Monthly measurement with pressure gage.

DATUM.--Measuring point: Reference mark on 3 in. brass exhaust for gate valve, 4.78 ft above National Geodetic Vertical Datum of 1929. From June 9, 1994 to November 2, 1998, reference mark was on northwest corner of meter box, 3.24 ft above NGVD. From March 24, 1993 to June 9, 1994, measuring point was top of plug, 3.66 ft above NGVD. From October 1990 to March 24, 1993, measuring point was base of faucet, 2.93 ft above NGVD. Prior to October 1990, measuring point was top of 6 in. plug, 4.83 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 2.3 ft above NGVD.

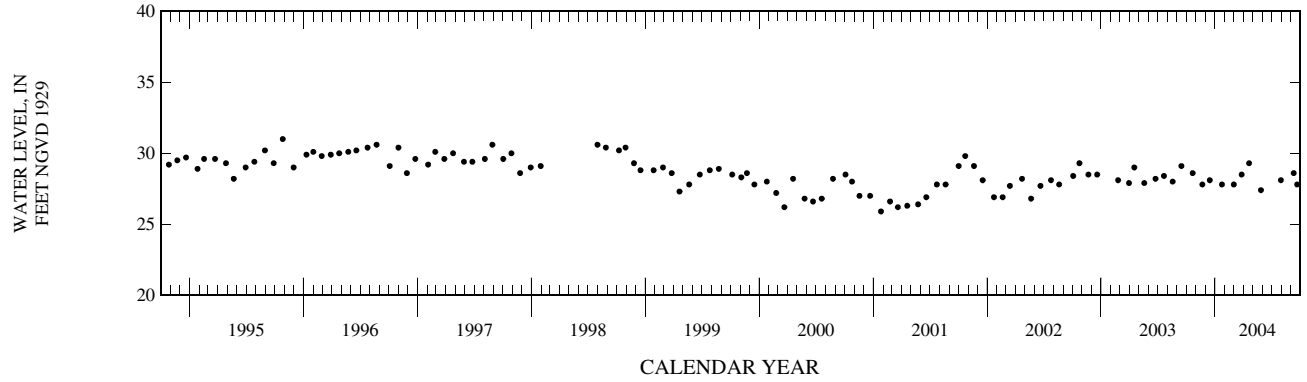
REMARKS.--Records of water levels, prior to October 1981, are in the files of the U.S. Geological Survey. The well was also used for salinity monitoring from October 1982 to October 1997.

PERIOD OF RECORD.--January 1964 to September 1993 (monthly), October 1993 to September 1994 (semiannual), October 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.3 ft NGVD, July 26, 1988; lowest, 21.2 ft NGVD, Jan. 28, 1988.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
21...	1653	28.6	19...	1241	29.3
NOV			MAY		
21...	0840	27.8	27...	1218	27.4
DEC			JUL		
15...	1351	28.1	30...	1202	28.1
JAN			SEP		
23...	1251	27.8	09...	1204	28.6
MAR			20...	1217	27.8
01...	1151	27.8			
26...	1344	28.5			



LEE COUNTY—Continued

WELL NUMBER.--262711081413701. Local Number L 2550.

LOCATION.--Lat 26°27'12", long 81°41'37", in NE ¼ SE ¼ SE ¼ sec.22, T.46 S., R.26 E., Hydrologic Unit 03050204, 0.75 mi east of Alico Road, 0.05 mi north of Corkscrew Road, 1.8 mi east of U.S. Interstate 75, and 8.2 mi east of Estero Post Office.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 134 ft, cased to 67 ft, open hole 67 to 134 ft.

INSTRUMENTATION.--Electronic data logger with pressure transducer.

DATUM.--Measuring point: Top of flange, 21.11 ft above National Geodetic Vertical Datum of 1929. Prior to October 2002, measuring point was incorrectly considered to be 21.07 ft above NGVD. The figures of water level as elevation, in ft NGVD, from March 1992 to October 2002, are in error. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 18.6 ft above NGVD.

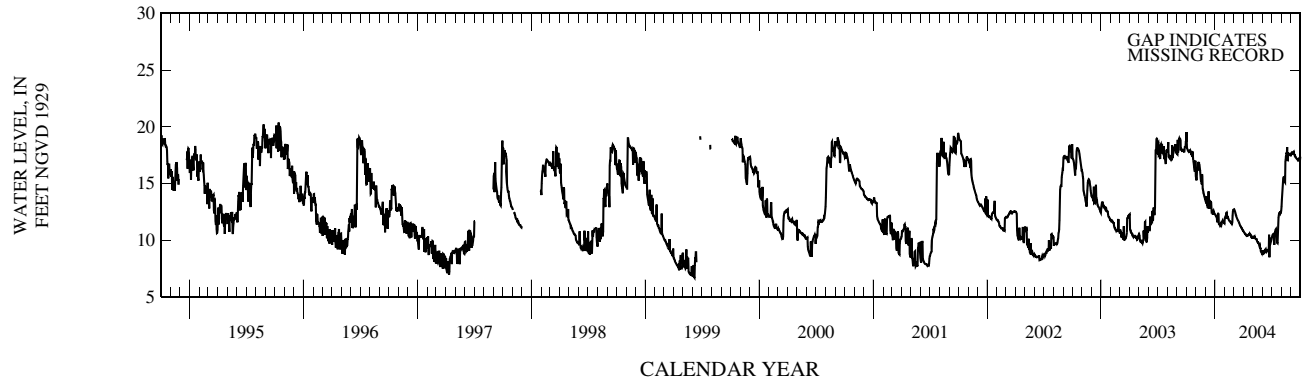
REMARKS.--The figures of water as elevation, in ft NGVD, from March 1992 to October 2002, are in error. A correction of +0.04 ft is required to correct water-level data. See DATUM.

PERIOD OF RECORD.--March 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 20.37 ft NGVD, Oct. 13, 1995; lowest, 6.71 ft NGVD, June 7, 1999.

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	17.99	16.12	13.87	12.10	12.19	12.50	10.64	10.34	9.07	10.55	14.84	17.69
10	17.91	16.91	13.51	12.31	12.05	12.06	10.45	10.16	9.18	10.38	15.31	17.69
15	17.80	15.78	12.94	11.42	11.73	11.73	10.45	9.89	9.07	10.76	17.36	17.34
20	17.40	15.84	12.78	11.46	11.62	11.40	10.52	9.72	9.11	10.49	17.08	17.14
25	16.65	14.15	12.27	11.75	11.52	11.12	10.34	9.37	9.61	12.44	17.63	17.05
EOM	15.67	13.69	12.32	11.49	12.69	10.86	10.28	9.10	10.19	12.64	17.48	17.38
MAX	19.55	16.91	14.32	12.35	12.69	12.73	10.80	10.36	10.50	12.64	18.22	17.82



LEE COUNTY—Continued

WELL NUMBER.--262713081414401. Local Number L 2193.

LOCATION.--Lat 26°27'12", long 81°41'43", in NW ¼ SE ¼ SE ¼ sec.22, T.46 S., R.26 E., Hydrologic Unit 03050204, 0.75 mi east of Alico Road, 50 ft north of Corkscrew Road, 1.8 mi east of U.S. Interstate 75, and 8.2 mi east of Estero Post Office.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 292 ft, cased to 220 ft, screened 220 to 292 ft.

INSTRUMENTATION.--Electronic data logger with pressure transducer.

DATUM.--Measuring point: Top of flange, 22.03 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 19.5 ft above NGVD.

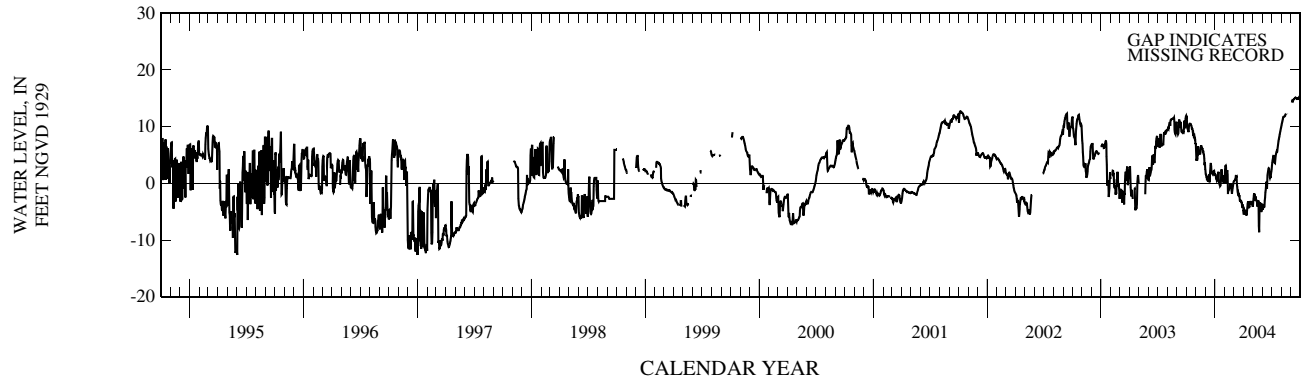
REMARKS.--Records of water levels prior to March 1992 may be available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--September 1975 to January 1978 (monthly), March 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.07 ft NGVD, Sept. 26, 1975; lowest daily maximum water level, 16.10 ft below NGVD, June 2, 1992.

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	9.64	4.29	1.10	0.91	2.84	0.62	-4.65	-1.77	-4.24	4.66	11.34	14.63
10	10.41	5.51	0.58	0.67	1.48	1.19	-5.70	-2.32	-1.60	3.60	11.76	14.82
15	10.42	5.45	1.54	-0.07	-0.97	-1.62	-3.31	-4.08	-0.98	5.39	12.23	15.11
20	9.61	5.93	1.93	1.23	-0.30	-3.00	-4.25	-7.51	2.53	6.56	---	14.97
25	8.11	5.12	1.89	0.56	-1.31	-3.50	-3.43	-3.55	0.89	8.33	---	15.09
EOM	7.06	2.47	1.59	1.45	0.17	-4.03	-3.44	-3.76	2.40	9.95	---	15.03
MAX	11.63	6.69	3.58	2.44	3.14	1.45	-3.13	-1.77	2.65	9.95	---	---



LEE COUNTY—Continued

WELL NUMBER.--262713081414701. Local Number L 1985.

LOCATION.--Lat 26°27'12", long 81°41'42", in NW $^1/_4$ SE $^1/_4$ SE $^1/_4$ sec.22, T.46 S., R.26 E., Hydrologic Unit 03090204, 20 ft north of Corkscrew Road, 5.55 mi east of U.S. Interstate 75, and 8.2 mi east of Estero Post Office.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 50 ft, cased to 43 ft, open hole 43 to 50 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of 4 in. PVC, 20.95 ft above National Geodetic Vertical Datum of 1929. From September 21, 1993 to October 2001, measuring point was 20.96 ft above NGVD. From October 1, 1992 to September 21, 1993, top of casing was 23.32 ft above NGVD. From October 1980 to September 30, 1992, measuring point was top of shelf, 23.38 ft above NGVD. From October 1978 to September 1980, top of shelf was 23.46 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 20.8 ft above NGVD.

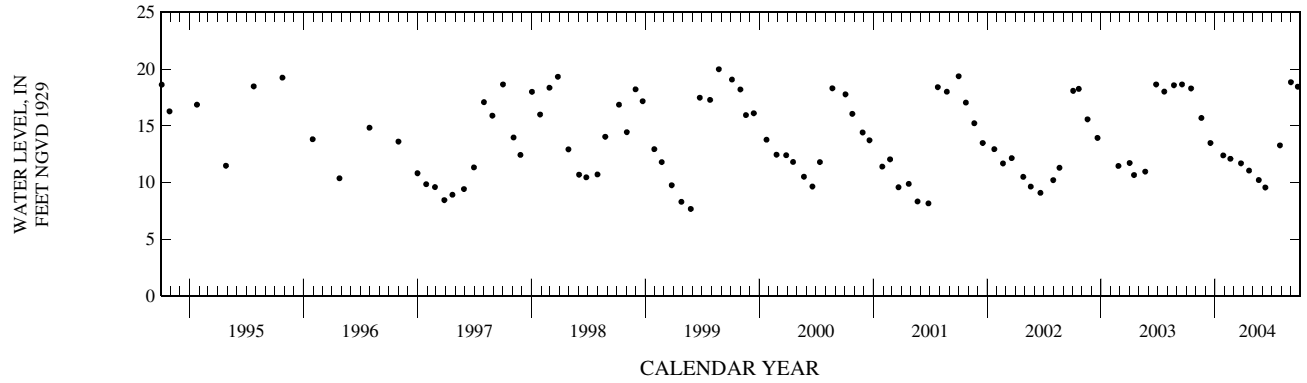
REMARKS.--Records of water levels prior to October 1975 are available in files of the U.S. Geological Survey. Well was monitored for salinity until April 1993.

PERIOD OF RECORD.--December 1974 to September 1978 (monthly), February 1978 to September 1992 (daily), October 1992 to September 1994 (monthly), October 1994 to September 1996 (quarterly), October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 22.73 ft NGVD, Aug. 2, 1991; lowest water level measured, 7.30 ft NGVD, May 7, 1990

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
16...	1309	18.30	19...	1405	11.06
NOV			MAY		
18...	1028	15.70	20...	1006	10.23
DEC			JUN		
17...	0934	13.49	10...	0910	9.57
JAN			JUL		
27...	1615	12.40	27...	1012	13.28
FEB			AUG		
19...	1315	12.10	31...	1405	18.85
MAR			SEP		
24...	0909	11.70	22...	1006	18.45



LEE COUNTY—Continued

WELL NUMBER.--262755082090902. Local Number L 5734.

LOCATION.--Lat 26°27'56", long 82°09'09", in NW ¼ SW ¼ NW ¼ sec.18, T.46 S., R.22 E., Hydrologic Unit 03100103, 200 ft south of Sanibel-Captiva Road and 40 ft east of Bowman's Beach Road.

AQUIFER.--Lower Hawthorn aquifer of Oligocene to Miocene Age, Geologic Unit 122 LMSN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 608 ft, cased to 440 ft, open hole 440 to 608 ft.

INSTRUMENTATION.--Monthly measurement with pressure gage or chalked tape.

DATUM.--Measuring point: Top of 8 in. casing, 4.44 ft above National Geodetic Vertical Datum of 1929. Prior to January 1992, measuring point was top of cap, 5.49 ft above NGVD.

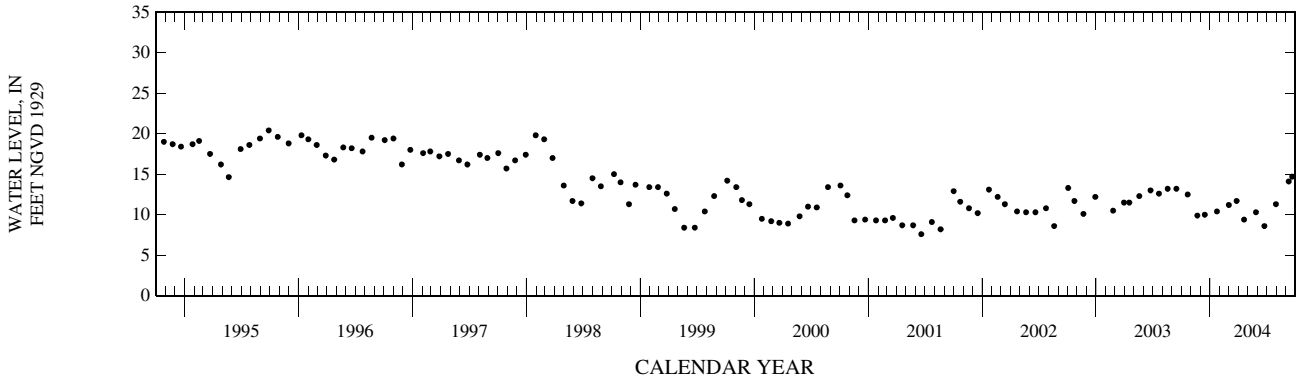
LAND-SURFACE DATUM.--Land surface is approximately 4.1 ft above NGVD.

PERIOD OF RECORD.--October 1989 to September 1993 (monthly), October 1993 to September 1994 (semiannual), October 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.4 ft NGVD, Oct. 7, 1992; lowest, 17.17 ft below NGVD, Mar. 20, 1991.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
21...	1506	12.5	19...	1013	9.4
NOV			MAY		
21...	1038	9.9	27...	0943	10.3
DEC			JUN		
15...	1131	10.0	23...	1149	8.6
JAN			JUL		
23...	1040	10.4	30...	0938	11.3
MAR			SEP		
01...	0952	11.2	09...	1033	14.1
26...	1036	11.7	20...	1126	14.7



LEE COUNTY—Continued

WELL NUMBER.--262831081575901. Local Number L 2212.

LOCATION.--Lat 26°28'33", long 81°58'01", in NW $^1/_4$ NW $^1/_4$ sec.13, T.46 S., R.23 E., Hydrologic Unit 03090205, at Bunch Beach, 400 ft east of John Morris Road at San Carlos Bay, 1.2 mi south of Summerlin Road, 2 mi northwest of Ft. Myers Beach Post Office.

AQUIFER.--Mid-Hawthorn aquifer of the Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 236 ft, cased to 135 ft, open hole 135 to 236 ft.

INSTRUMENTATION.--Monthly measurement with pressure gage or chalked tape.

DATUM.--Measuring point: Top of 4 in. steel cap, 1.62 ft above National Geodetic Vertical Datum of 1929.

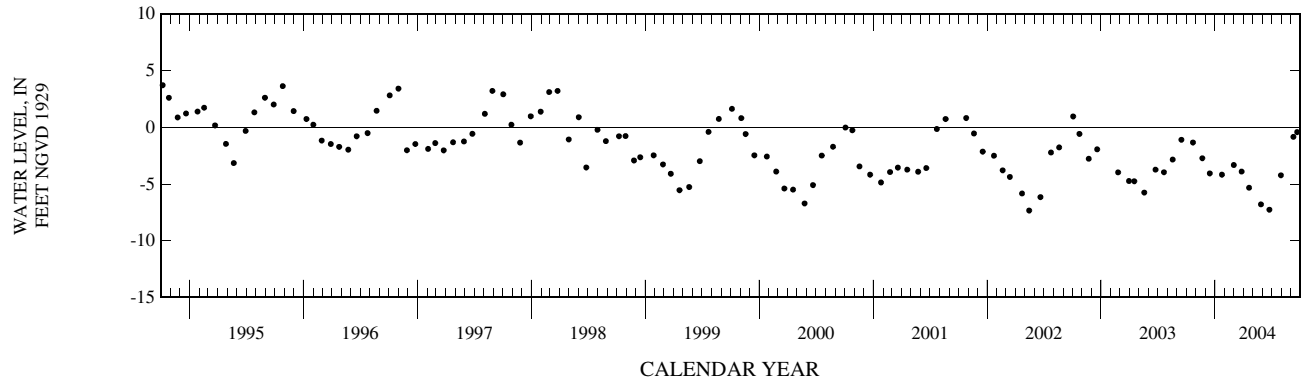
LAND-SURFACE DATUM.--Land surface is approximately 1.1 ft above NGVD.

PERIOD OF RECORD.--February 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.82 ft NGVD, Aug. 30, 1989; lowest, 7.34 ft below NGVD, May 15, 2002.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
22...	0945	-1.35	19...	1349	-5.33
NOV			MAY		
21...	1152	-2.73	27...	1320	-6.8
DEC			JUN		
15...	1417	-4.07	23...	1437	-7.27
JAN			JUL		
23...	1327	-4.18	30...	1244	-4.24
MAR			SEP		
01...	1215	-3.33	08...	1411	-.85
26...	1415	-3.91	20...	1232	-.43



LEE COUNTY—Continued

WELL NUMBER.--262839081503100. Local Number L 735.

LOCATION.--Lat 26°28'40", long 81°50'31", in NE $^1/_4$ NE $^1/_4$ sec.18, T.46 S., R.25 E., Hydrologic Unit 03090204, 13 ft south of Park Road, 0.2 mi west of U.S. Highway 41, and 1.5 mi northwest of Estero Post Office.

AQUIFER.--Mid-Hawthorn aquifer of the Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 270 ft, cased to 223 ft, open hole 223 to 270 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of casing, 8.92 ft above National Geodetic Vertical Datum of 1929. From June 22, 1999 to September 2002, measuring point was 7.32 ft above NGVD. Prior to June 22, 1999, measuring point was top of cap, 7.52 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 5.2 ft above NGVD.

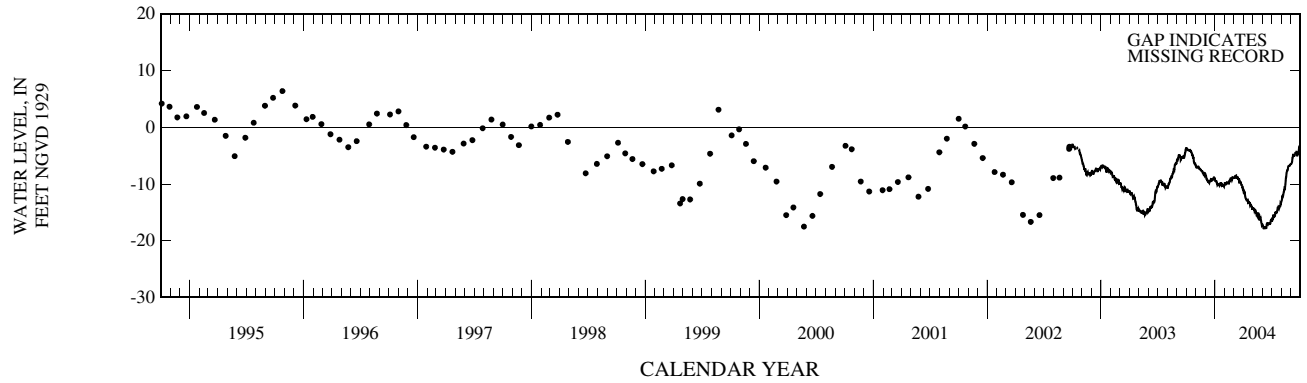
REMARKS.--Well is also used for salinity monitoring. Records of water levels prior to October 1975 are available in files of the U.S. Geological Survey. In September 2002, the station was reconstructed with a new measuring point elevation. See DATUM.

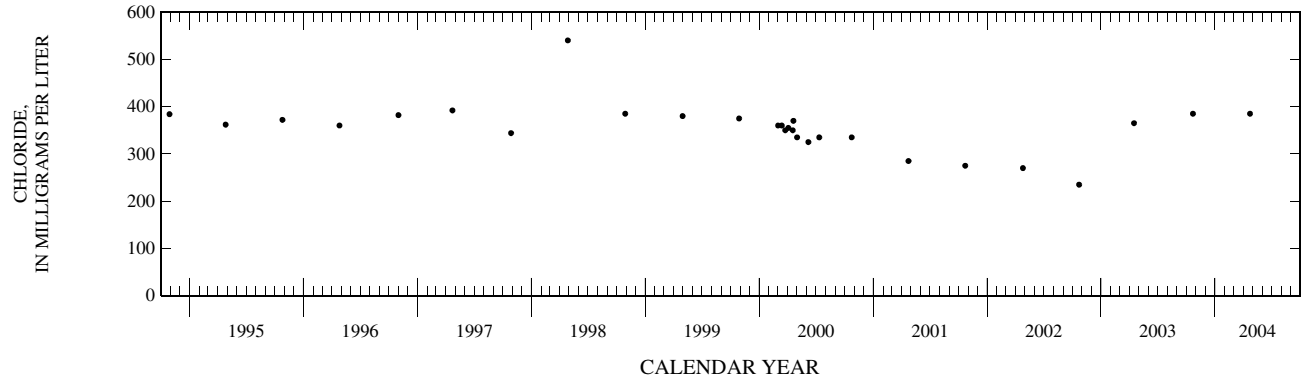
PERIOD OF RECORD.--August 1968 to November 1974 (bimonthly), December 1974 to August 2002 (monthly), September 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.4 ft NGVD, Oct. 31, 1969; lowest maximun daily water level, 17.81 ft below NGVD, June 6, 2004.

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	-4.01	-7.11	-9.08	-9.52	-9.99	-8.68	-11.60	-14.44	-17.68	-15.65	-12.00	-5.43
10	-4.07	-7.13	-9.58	-10.11	-9.77	-8.85	-12.75	-14.78	-17.78	-15.70	-10.84	-5.01
15	-4.17	-7.47	-9.49	-10.27	-9.56	-9.04	-13.17	-15.58	-16.94	-15.06	-8.97	-4.54
20	-4.85	-7.73	-9.38	-9.92	-9.02	-9.73	-13.33	-15.47	-16.94	-14.03	-7.64	-5.13
25	-6.06	-8.31	-9.24	-10.30	-9.18	-10.21	-13.85	-15.84	-17.03	-14.17	-6.80	-4.28
EOM	-6.74	-8.30	-9.06	-10.22	-8.93	-10.92	-14.30	-17.24	-16.63	-13.27	-6.52	-3.85
MAX	-3.66	-6.95	-8.30	-9.44	-8.86	-8.55	-11.17	-14.29	-16.28	-13.27	-6.52	-3.72





LEE COUNTY—Continued

WELL NUMBER.--262934081495801. Local Number L 5649.

LOCATION.--Lat 26°29'35", long 81°47'14", in NE ¼ NE ¼ NE ¼ sec.10, T.46 S., R.25 E., Hydrologic Unit 03090204, on the north side of Alico Road, 0.3 mi east of U.S. Interstate 75, and 12 mi southeast of Ft. Myers Post Office.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 128 ft, cased to 118 ft, screened 118 to 128 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of shelf, 24.94 ft above National Geodetic Vertical Datum of 1929. (Corrected). From August 1994 to September 2001, measuring point was incorrectly considered to be 25.10 ft above NGVD. From October 1982 to August 1994, measuring point was 22.56 ft above NGVD, but was incorrectly considered to be 22.73 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 22.7 ft above NGVD.

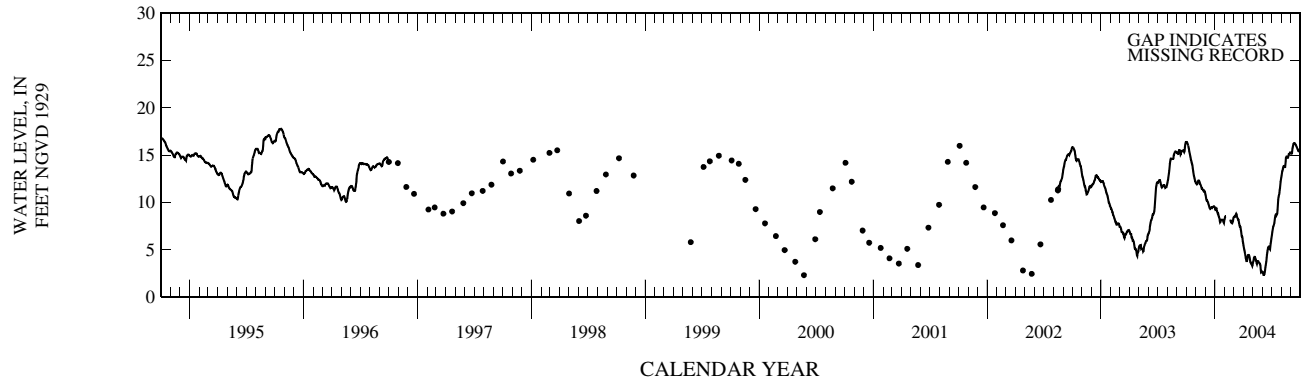
REMARKS.--In the 2002 water year the well was re-surveyed and the land-surface datum and height of the measuring point were corrected. The figures of water levels as elevation, in feet NGVD, from October 1982 to October 2001, are in error. A -0.17 ft correction is required to correct the water-level data. See DATUM.

PERIOD OF RECORD.--October 1982 to September 1996 (daily), October 1996 to July 2002 (monthly), August 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 19.24 ft NGVD, Sept. 12, 13, 1986 (present datum); lowest water level measured, 2.15 ft NGVD, May 23, 2000 (present datum).

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	16.24	11.97	10.23	9.36	8.54	8.51	4.79	4.21	2.27	7.45	13.54	15.70
10	15.42	12.33	9.91	8.87	---	8.74	3.81	4.02	3.15	8.11	13.86	16.29
15	14.58	11.93	9.39	8.33	---	8.20	4.41	3.66	4.49	8.76	14.70	16.13
20	13.91	11.49	9.48	8.16	8.03	7.47	4.32	3.67	5.31	9.82	14.85	15.75
25	12.84	11.23	9.52	8.19	7.79	6.71	3.64	3.32	5.06	11.05	15.10	15.43
EOM	12.07	10.96	9.50	8.18	8.42	5.72	3.45	2.64	6.38	12.63	15.24	15.57
MAX	16.40	12.33	10.88	9.36	---	8.81	5.46	4.26	6.38	12.63	15.28	16.29



LEE COUNTY—Continued

WELL NUMBER.--262944081560801. Local Number L 2529.

LOCATION.--Lat 26°29'15", long 81°56'24", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.7, T.46 S., R.24 E., Hydrologic Unit 03090204, on south side of Pine Ridge Road, east of State Road 865, and 2.6 mi north of Ft. Myers Beach Post Office. (Corrected).

AQUIFER.--Lower Hawthorn aquifer of Oligocene to Miocene Age, Geologic Unit 122 LMSN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 545 ft, cased to 304 ft, open hole 304 to 545 ft.

INSTRUMENTATION.--Monthly measurement with pressure gage.

DATUM.--Measuring point: Top of meter box, west side, 6.04 ft above National Geodetic Vertical Datum of 1929. From January 1978 to September 1990, measuring point was top of casing, 6.11 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 5.8 ft above NGVD.

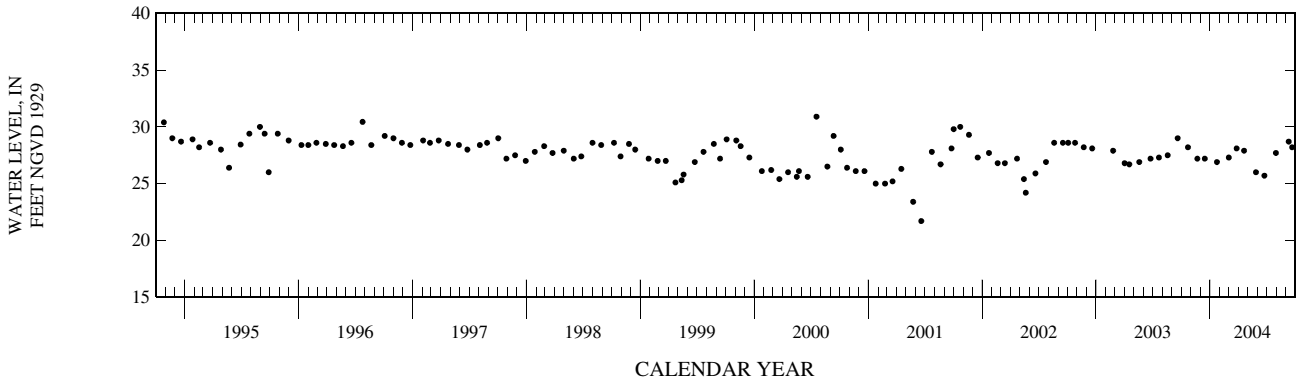
REMARKS.--Records of water levels prior to October 1980 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--January 1978 to September 1993 (monthly), October 1993 to September 1994 (intermittent), October 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.0 ft NGVD, Nov. 30, 1981; lowest, 21.7 ft NGVD, June 19, 2001.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
22...	1050	28.2	19...	1507	27.9
NOV			MAY		
21...	1226	27.2	27...	1407	26.0
DEC			JUN		
15...	1505	27.2	23...	1320	25.7
JAN			JUL		
23...	1337	26.9	30...	1358	27.7
MAR			SEP		
01...	1353	27.3	09...	1239	28.7
26...	1405	28.1	20...	1312	28.2



LEE COUNTY—Continued

WELL NUMBER.--263004082111701. Local Number L 2315.

LOCATION.--Lat 26°29'58", long 82°11'16", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.3, T.46 S., R.21 E., Hydrologic Unit 03100103, 25 ft north of private drive, 125 ft west of Sanibel-Captiva Road, 1.1 mi north of Blind Pass bridge and 1.8 mi south of Captiva.

AQUIFER.--Lower Hawthorn aquifer of Oligocene to Miocene Age, Geologic Unit 122 LMSN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 600 ft, cased to 535 ft, open hole 535 to 600 ft.

INSTRUMENTATION.--Monthly measurement with pressure gage.

DATUM.--Measuring point: Top of 6 in. plug, 9.55 ft above National Geodetic Vertical Datum of 1929.

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

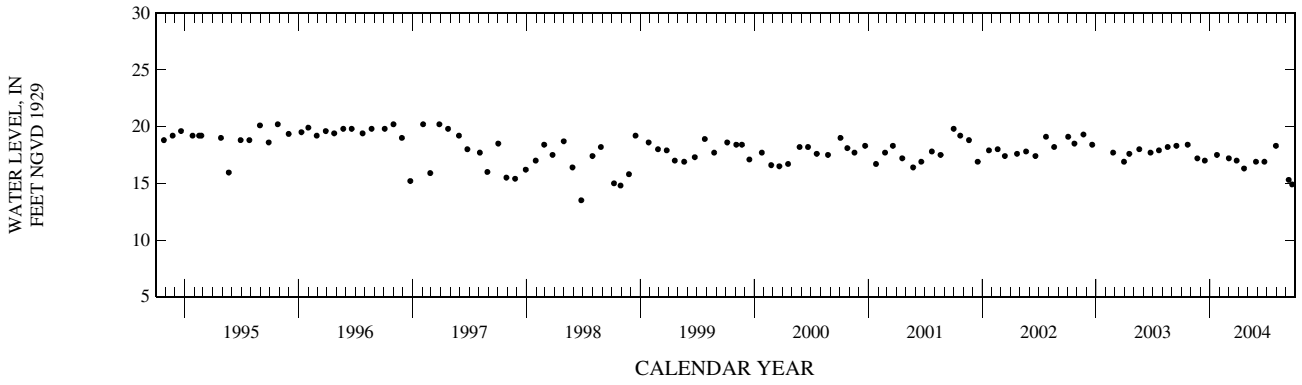
REMARKS.--Landowner uses well for irrigation.

PERIOD OF RECORD.--March 1987 to September 1993 (monthly), October 1993 to September 1994 (semiannual), October 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 24.8 ft NGVD, Aug. 30, 1989; lowest, 13.5 ft NGVD, June 25, 1998.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
21...	1453	18.4	19...	1004	16.3
NOV			MAY		
21...	1050	17.2	27...	0928	16.9
DEC			JUN		
15...	1122	17.0	23...	1139	16.9
JAN			JUL		
23...	1021	17.5	30...	0926	18.3
MAR			SEP		
01...	0940	17.2	09...	1032	15.3
26...	1021	17.0	20...	1117	14.9



LEE COUNTY—Continued

WELL NUMBER.--263041081433101. Local Number L 1983.

LOCATION.--Lat 26°30'42", long 81°43'32", in SW $^1/_4$ SW $^1/_4$ SW $^1/_4$ sec.33, T.45 S., R.26 E., Hydrologic Unit 03090204, 1.25 mi north of Alico Road, 1.85 mi east of Airport Haul Road, 2.5 mi west of U.S. Interstate 75 and 7.2 mi northeast of Estero Post Office.

AQUIFER.--Mid-Hawthorn aquifer of the Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 345 ft, cased to 321 ft, open hole 321 to 345 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of cap, 28.92 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 26.7 ft above NGVD.

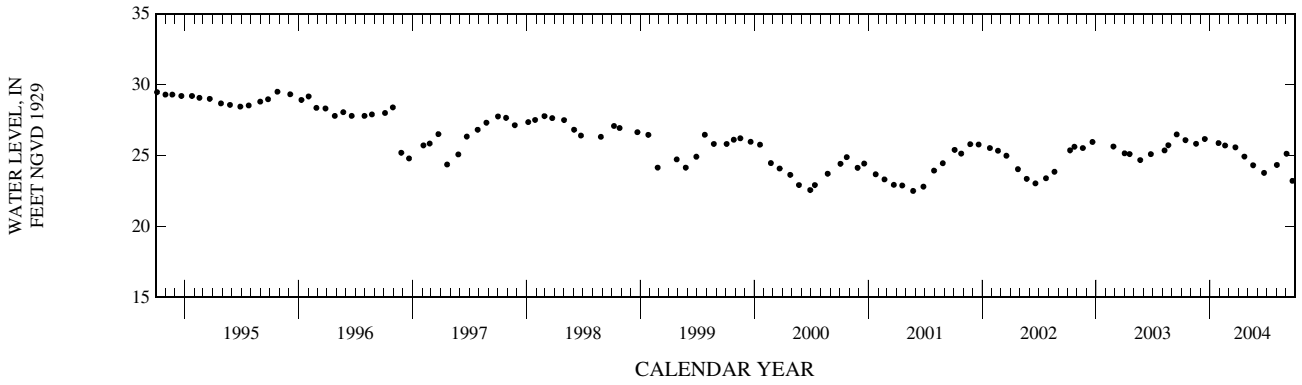
REMARKS.--Records of water levels prior to October 1975 are available in files of the U.S. Geological Survey. Prior to 1996, monthly measurements were made using a pressure gage. Well was also used for salinity monitoring from October 1985 to April 1993.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 33.1 ft NGVD, Oct. 29, 1975; lowest, 22.51 ft NGVD, May 24, 2001.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
14...	1535	26.09	20...	1441	24.93
NOV			MAY		
17...	1315	25.83	18...	0830	24.32
DEC			JUN		
15...	1351	26.17	22...	1057	23.78
JAN			AUG		
28...	1444	25.88	02...	1007	24.34
FEB			SEP		
18...	1053	25.71	02...	1024	25.13
MAR			21...	1327	23.22
22...	1354	25.58			



LEE COUNTY—Continued

WELL NUMBER.--263041081433102. Local Number L 1998.

LOCATION.--Lat 26°30'42", long 81°43'32", in SW $^1/_4$ SW $^1/_4$ SW $^1/_4$ sec.33, T.45 S., R.26 E., Hydrologic Unit 03090204, 1.25 mi north of Alico Road, 1.85 mi east of Airport Haul Road, 2.5 mi west of U.S. Interstate 75, and 7.2 mi northeast of Estero Post Office.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 160 ft, cased to 100 ft, open hole 100 to 160 ft.

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

DATUM.--Measuring point: Top of recorder shelf, 29.14 ft above National Geodetic Vertical Datum of 1929. Prior to March 2001, measuring point was 29.21 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 26.6 ft above NGVD.

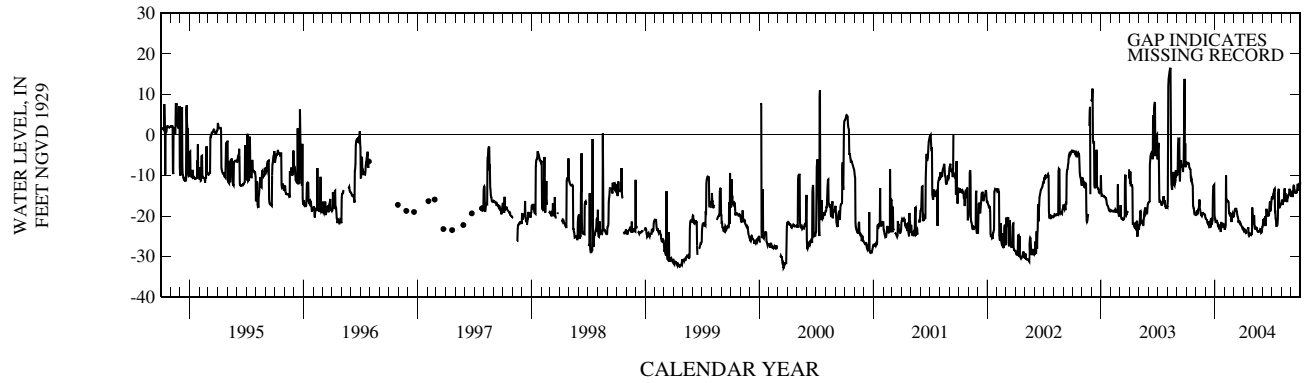
REMARKS.--In March 2001, the well was reconstructed and resurveyed. See DATUM. Water levels affected by pumping of nearby wells. Revised water levels for July 1997 to September 1997 are available in the files of the U.S. Geological Survey.

PERIOD OF RECORD.--November 1974 to September 1996 (daily), October 1996 to June 1997 (monthly), July 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 25.98 ft NGVD, Dec. 12, 1975; lowest, 32.88 ft below NGVD, Mar. 18, 2000.

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	-7.08	-19.47	-20.91	-21.37	-10.01	-18.31	-23.36	-19.77	-22.14	-14.62	-17.26	-14.12
10	-7.94	-17.53	-21.93	-22.23	-16.42	-18.79	-23.72	-23.41	-19.99	-13.27	-13.56	-12.53
15	-10.60	-18.90	-22.09	-22.47	-19.22	-20.53	-23.15	-23.59	-19.18	-22.43	-16.25	-14.31
20	-12.20	-19.66	-21.87	-21.73	-19.88	-21.84	-24.75	-23.79	-19.86	-20.51	-15.70	-13.37
25	-18.16	-19.37	-14.88	-22.10	-19.64	-22.39	-24.57	-23.36	-16.42	-17.45	-14.47	-12.43
EOM	-19.67	-19.99	-20.62	-22.65	-20.14	-23.27	-21.99	-22.77	-15.71	-16.97	-15.06	-11.64
MAX	-6.78	-15.95	-12.30	-20.66	-10.01	-17.99	---	-19.77	-15.71	-13.27	-13.18	-11.64



LEE COUNTY—Continued

WELL NUMBER.--263041081433103. Local Number L 1999.

LOCATION.--Lat 26°30'42", long 81°43'32", in SW $^1/_4$ SW $^1/_4$ SW $^1/_4$ sec.33, T.45 S., R.26 E., Hydrologic Unit 03090204, 1.25 mi north of Alico Road, 1.85 mi east of Airport Haul Road, 2.5 mi west of U.S. Interstate 75 and 7.2 mi northeast of Estero Post Office.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 26 ft, cased to 16 ft, open hole 16 to 26 ft.

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

DATUM.--Measuring point: Top of shelf, 28.92 ft above National Geodetic Vertical Datum of 1929. Prior to March 2001, measuring point was top of casing, 29.92 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 26.9 ft above NGVD.

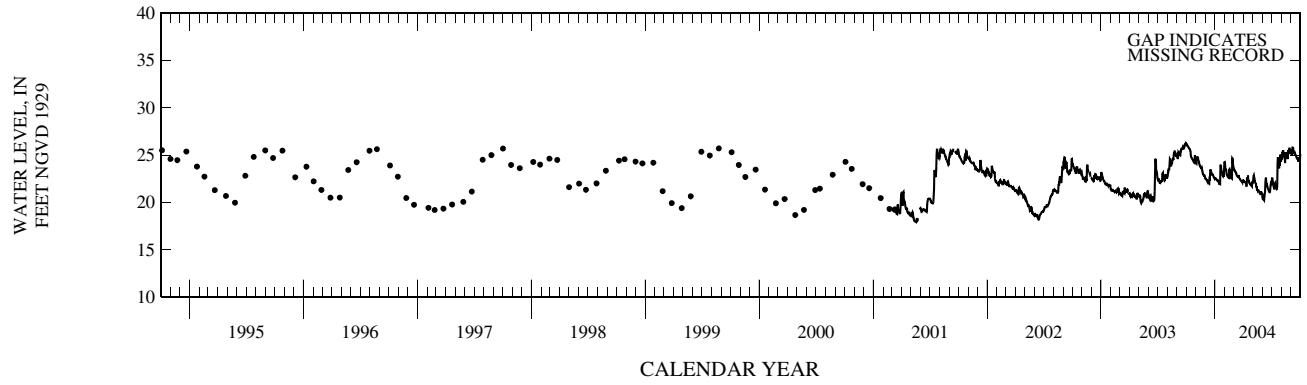
REMARKS.--In March 2001, the well was reconstructed and resurveyed. Records of water levels prior to October 1975 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--November 1974 to February 2001 (monthly), March 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 26.28 ft NGVD, Sept. 29, 2003; lowest, 17.94 ft NGVD, May 17, 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	26.01	24.87	22.40	22.48	23.56	23.30	22.18	22.66	20.29	22.00	25.38	25.81
10	25.71	24.30	22.23	22.33	22.76	22.95	21.76	22.02	22.14	21.74	24.75	25.27
15	24.95	23.75	22.52	21.97	23.47	22.72	22.91	21.35	21.89	21.56	24.92	25.05
20	24.57	23.52	23.05	23.76	22.71	22.50	22.08	21.22	21.35	24.79	24.70	24.65
25	24.28	22.92	22.91	22.84	24.68	22.26	21.84	20.94	21.17	24.77	25.40	24.31
EOM	24.29	22.58	22.49	24.26	23.67	22.36	22.10	20.94	21.83	24.44	25.50	25.15
MAX	26.20	24.87	23.50	24.26	24.68	23.59	---	22.87	22.54	25.07	25.79	25.81



LEE COUNTY—Continued

WELL NUMBER.--263115081483501. Local Number L 5641.

LOCATION.--Lat 26°31'14", long 81°48'34", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.33, T.45 S., R.25 E., Hydrologic Unit 03090204, at golf course in Fiddlesticks Country Club, 0.75 mi west of U.S. Interstate 75 on Daniels Road and 1.5 mi south on Palomino Street to gate house, 0.25 mi west on Fiddlesticks Boulevard to Cannongate Drive, 0.1 mi south to Tweedale Circle. Golf cart path is behind lot 300.

AQUIFER.--Upper Floridan aquifer of the Oligocene Age, Geologic Unit 120 UFAQ.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 1,410 ft, cased to 950 ft, open hole 950 to 1,410 ft.

INSTRUMENTATION.--Monthly measurement with pressure gage.

DATUM.--Measuring point: Top of 4 in. coupling, 27.80 ft above National Geodetic Vertical Datum of 1929.

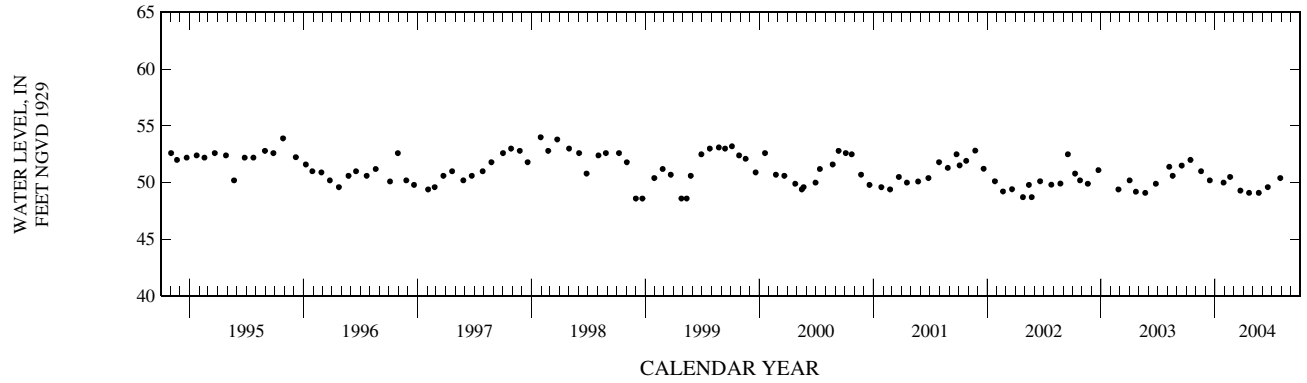
LAND-SURFACE DATUM.--Land surface is approximately 26.1 ft above NGVD.

PERIOD OF RECORD.--May 1984 to October 1991 (semiannual), January 1992 to October 1993 (monthly), December 1993 to September 1994 (intermittent), October 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 54.0 ft NGVD, Sept. 14, 1992 and Jan. 30, 1998; lowest, 47.0 ft NGVD, Dec. 21, 1993.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			MAR		
14...	0810	52.0	22...	1246	49.3
NOV			APR		
17...	1228	51.0	19...	1349	49.1
DEC			MAY		
15...	1303	50.2	20...	1000	49.1
JAN			JUN		
28...	0909	50.0	18...	1506	49.6
FEB			JUL		
18...	0936	50.5	28...	1217	50.4



LEE COUNTY—Continued

WELL NUMBER.--263115081483502. Local Number L 5801.

LOCATION.--Lat 26°31'14", long 81°48'34", NW $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ in sec.33, T.45 S., R.25 E., Hydrologic Unit 03090204, at golf course in Fiddlesticks Country Club, 0.75 mi west of U.S. Interstate 75 on Daniels Road and 1.5 mi south on Palomino Street to gate house, 0.25 mi west on Fiddlesticks Boulevard to Cannongate Drive, 0.1 mi south to Tweedale Circle. Golf cart path is behind lot 300.

AQUIFER.--Lower Hawthorn aquifer of Oligocene to Miocene Age, Geologic Unit 122 LMSN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 1 in., depth 635 ft, cased to 450 ft, open hole 450 to 635 ft.

INSTRUMENTATION.--Monthly measurement with pressure gage.

DATUM.--Measuring point: Top of 4 in. coupling on well L 5641, 27.80 ft above National Geodetic Vertical Datum of 1929.

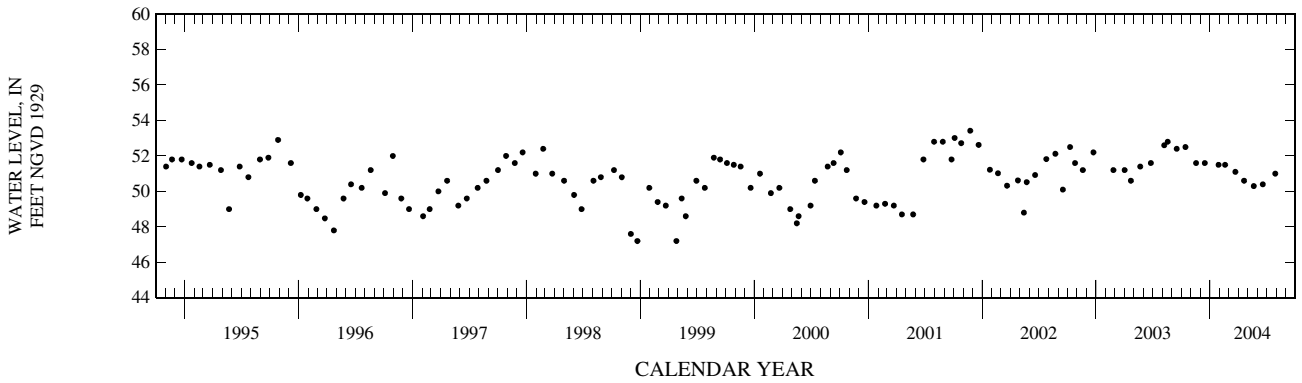
LAND-SURFACE DATUM.--Land surface is approximately 26.1 ft above NGVD.

PERIOD OF RECORD.--March 1992 to September 1993 (monthly), October 1993 to September 1994 (intermittent), October 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 54.4 ft NGVD, Oct. 7, 1993; lowest, 47.2 ft NGVD, Dec. 22, 1998 and Apr. 26, 1999.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			MAR		
14...	0815	52.5	22...	1250	51.1
NOV			APR		
17...	1230	51.6	19...	1343	50.6
DEC			MAY		
15...	1307	51.6	20...	1006	50.3
JAN			JUN		
28...	0907	51.5	18...	1502	50.4
FEB			JUL		
18...	0938	51.5	28...	1215	51.0



LEE COUNTY—Continued

WELL NUMBER.--263117082051001. Local Number L 2525.

LOCATION.--Lat 26°31'17", long 82°05'10", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.26, T.45 S., R.22 E., Hydrologic Unit 03100103, 32 ft west of H. Stringfellow Road (County Road 767) and 6.6 mi south of Pine Island Road and 0.9 mi north of Saint James City Post Office.

AQUIFER.--Lower Hawthorn aquifer of Oligocene to Miocene Age, Geologic Unit 122 LMSN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 645 ft, cased to 405 ft, open hole 405 to 645 ft.

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

DATUM.--Measuring point: Top of 5/16 in. carriage bolt, securing base to flange, 6.44 ft above National Geodetic Vertical Datum of 1929. From October 1977 to August 2002, measuring point was top of casing, 6.19 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 3.9 ft above NGVD.

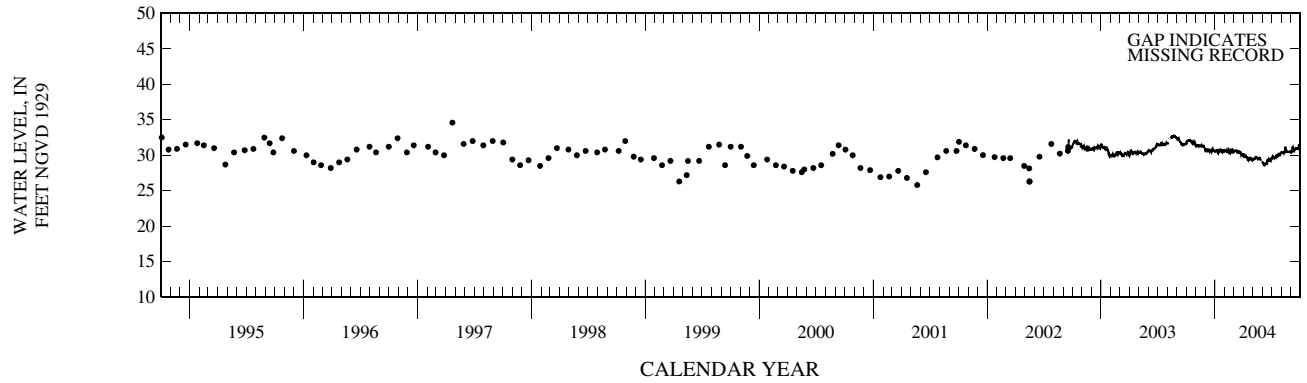
REMARKS.--Records of water levels prior to October 1978 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--October 1977 to September 1993 (monthly), October 1993 to September 1994 (intermittent), October 1994 to August 2002 (monthly), August 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.6 ft NGVD, Apr. 22, 1997; lowest, 25.4 ft NGVD, Aug. 28, 1980.

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	31.98	31.41	30.85	30.67	30.59	30.65	29.82	29.45	28.82	29.73	30.38	31.08
10	32.08	31.27	30.77	30.88	30.62	30.63	29.76	29.72	28.70	29.59	30.38	30.57
15	32.05	31.31	30.58	30.61	30.73	30.52	29.33	29.65	29.12	29.88	30.51	31.11
20	31.66	31.32	30.62	30.72	30.59	30.34	29.55	29.56	29.36	29.90	30.45	30.92
25	31.59	31.32	30.77	30.67	30.83	30.20	29.51	29.37	29.36	30.03	30.45	31.15
EOM	31.29	30.66	30.51	30.69	30.42	30.14	29.38	29.08	29.48	30.39	30.41	30.99
MAX	32.11	31.42	30.95	30.88	30.83	30.65	30.14	---	29.48	30.39	31.22	31.55



LEE COUNTY—Continued

WELL NUMBER.--263117082051002. Local Number L 2821.

LOCATION.--Lat 26°31'17", long 82°05'10", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.26, T.45 S., R.22 E., Hydrologic Unit 03100103, 32 ft west of H. Stringfellow Road (County Road 767) and 6.6 mi south of Pine Island Road and 0.9 mi north of Saint James City Post Office.

AQUIFER.--Mid-Hawthorn aquifer of the Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 340 ft, cased to 290 ft, open hole 290 to 340 ft.

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

DATUM.--Measuring point: Top of 8 in. casing, 6.55 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 3.4 ft above NGVD.

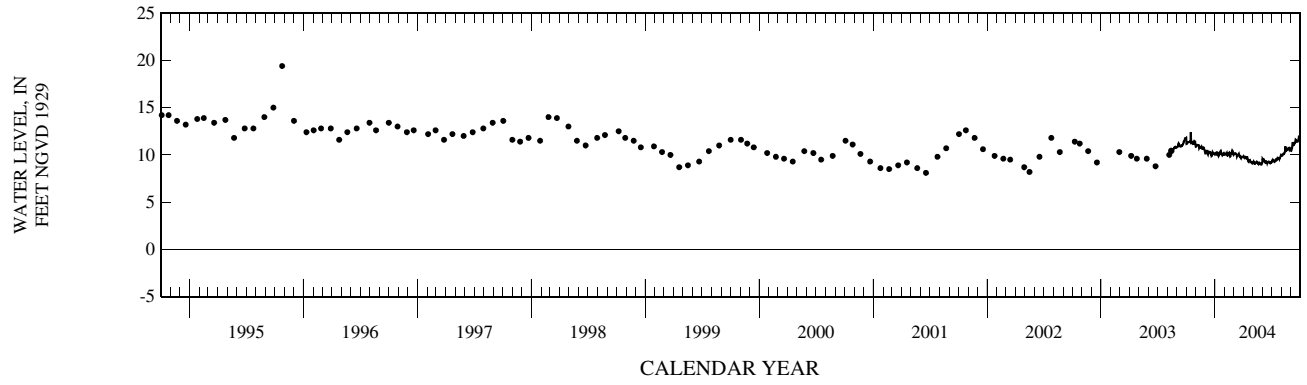
REMARKS.--Well is also used for salinity monitoring. This well is open to the aquifer for 50 ft. The exact depth from which the chloride-containing water is emanating cannot be further delineated.

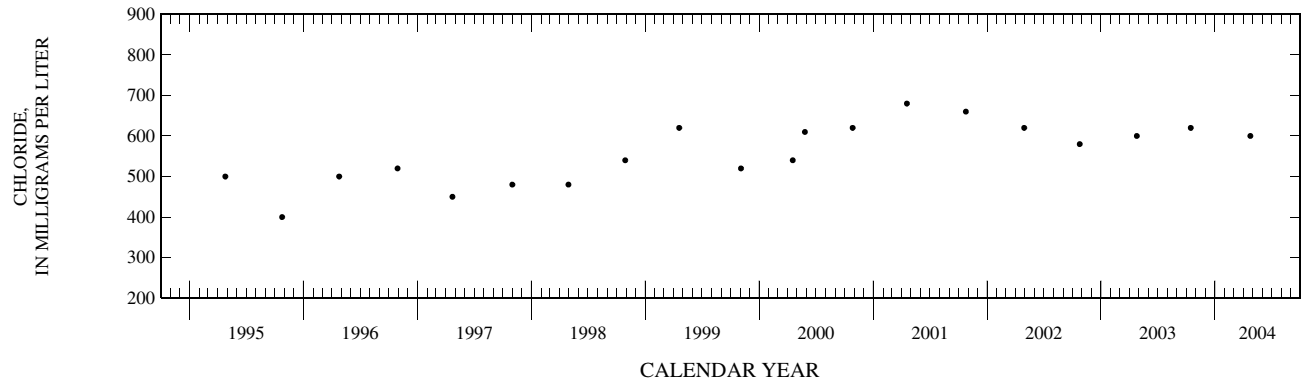
PERIOD OF RECORD.--October 1978 to August 2003 (monthly), August 2003 to current year. (Corrected).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.4 ft NGVD, Oct. 24, 1995; lowest, 8.1 ft NGVD, June 18, 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	11.31	11.05	10.43	10.27	10.10	10.15	9.64	9.14	9.52	9.31	10.03	11.17
10	11.36	10.82	10.27	10.31	10.00	10.03	9.66	9.15	9.26	9.29	10.16	11.08
15	12.41	10.78	10.27	10.05	10.25	10.02	9.44	9.17	9.25	9.53	10.47	11.62
20	11.22	10.78	10.05	10.32	10.05	9.83	9.42	9.05	9.26	9.67	10.56	11.40
25	11.18	10.76	10.22	10.01	10.46	9.73	9.23	9.02	9.14	9.56	10.63	11.74
EOM	10.88	10.17	10.12	10.10	9.99	9.83	9.08	9.14	9.24	9.90	10.45	11.71
MAX	12.41	11.06	10.43	10.44	10.46	10.17	9.88	9.31	9.61	9.94	10.90	12.04





LEE COUNTY—Continued

WELL NUMBER.--263127081351602. Local Number L 2215.

LOCATION.--Lat 26°31'28", long 81°35'17", in NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.35, T.45 S., R.27 E., Hydrologic Unit 03090205, 66 ft east of Eisenhower Boulevard, 68 ft north of State Road 82, and 7.6 mi southeast of Lehigh Acres Post Office.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 149 ft, cased to 99 ft, screened 99 to 149 ft.

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

DATUM.--Measuring point: Top of casing, 31.54 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 30.2 ft above NGVD.

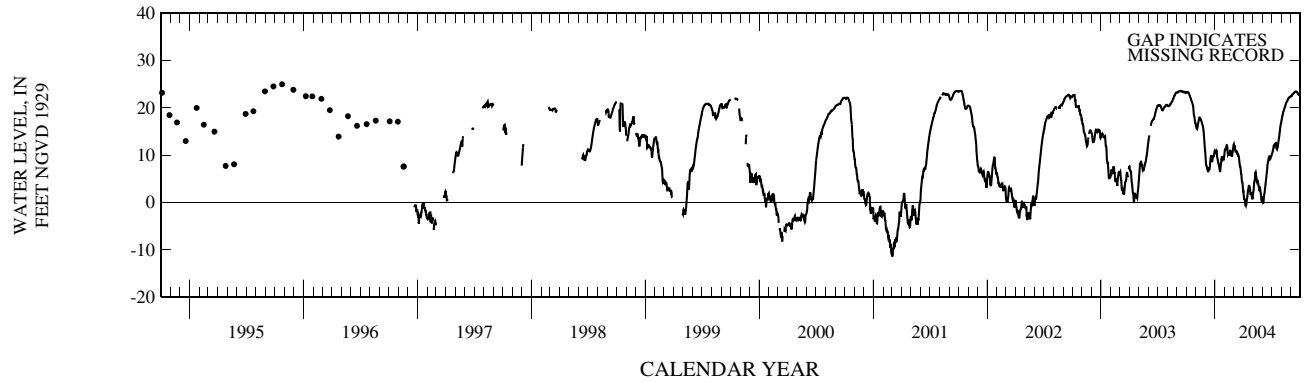
REMARKS.--In 1999 and 2000, hydrologic profiles and water quality samples were collected for a drought alert project and the well was sampled for water quality for a saltwater intrusion project.

PERIOD OF RECORD.--October 1975 to October 1996 (monthly), November 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.97 ft NGVD, Aug. 30, 1978; lowest daily maximum water level, 11.40 ft below NGVD, Mar. 2, 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	23.34	15.90	7.62	10.97	11.32	11.19	0.71	4.26	0.82	11.38	18.70	22.90
10	22.92	17.63	6.78	8.84	10.70	10.57	-0.34	6.39	3.77	11.82	19.84	23.20
15	22.02	17.80	7.68	7.21	10.43	10.10	2.46	4.24	6.75	11.90	20.88	23.44
20	20.95	16.77	9.82	8.37	10.84	7.94	3.50	3.35	9.08	12.00	21.56	23.30
25	18.53	14.99	9.71	9.34	10.04	6.02	1.92	2.35	9.17	14.36	22.14	22.85
EOM	16.45	10.66	10.97	10.31	12.13	2.32	0.69	0.97	9.97	17.04	22.48	22.81
MAX	23.35	17.99	10.97	10.97	12.13	12.29	3.54	6.39	9.97	17.04	22.48	23.46



LEE COUNTY—Continued

WELL NUMBER.--263138081545801. Local Number L 730.

LOCATION.--Lat 26°31'28", long 81°35'17", in NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.35, T.45 S., R.27 E., Hydrologic Unit 03090205, 21 ft east of Eisenhower Boulevard, 68 ft north of State Road 82, and 7.6 mi southeast of Lehigh Acres Post Office.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 19 ft, cased to 18.7 ft, open hole 18.7 to 19 ft.

INSTRUMENTATION.--Electronic data logger with pressure transducer.

DATUM.--Measuring point: Top of recorder base, 33.90 ft above National Geodetic Vertical Datum of 1929. Prior to July 1991, measuring point was 33.95 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 31.5 ft above NGVD.

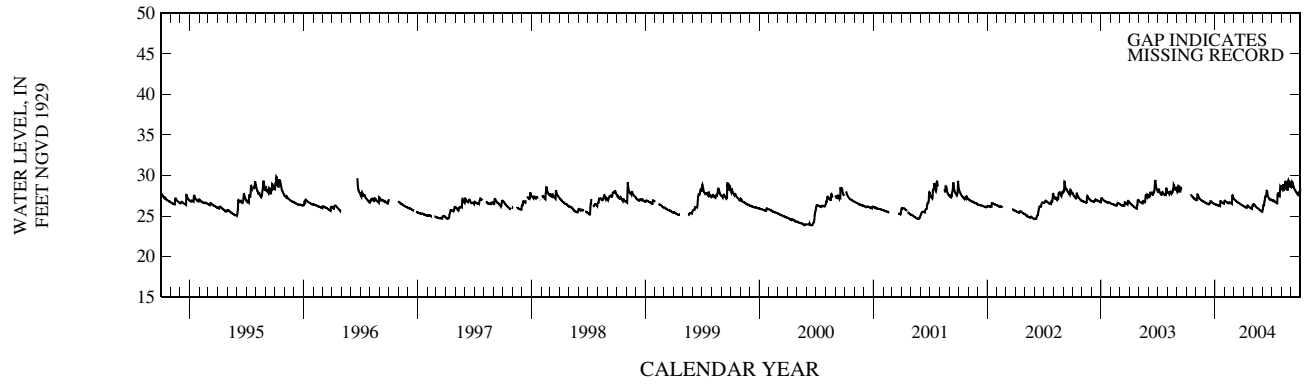
REMARKS.--Well is also used for salinity monitoring until September 2004. Records of water levels prior to October 1974 are available in files of the U.S. Geological Survey.

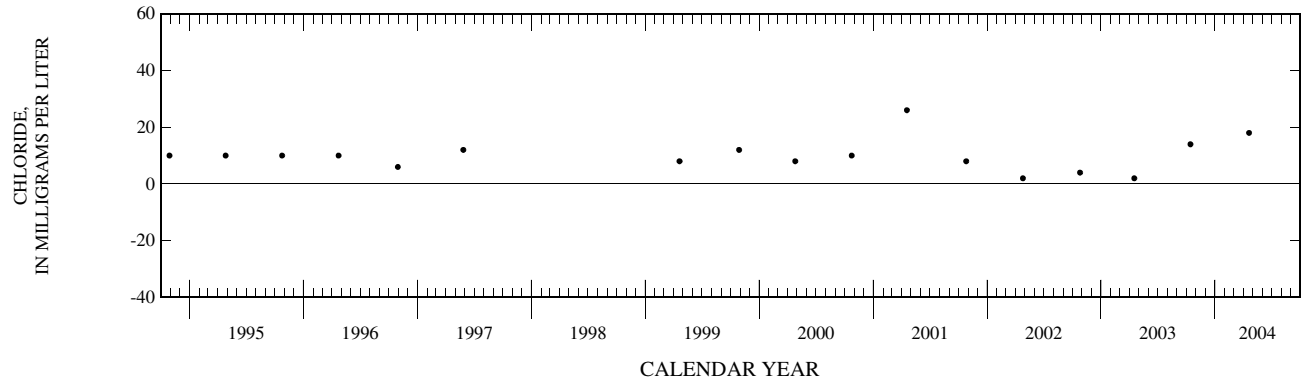
PERIOD OF RECORD.--August 1968 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 30.48 ft NGVD, Oct. 30, 1969; lowest, 23.87 ft NGVD, June 17, 2000.

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	---	27.67	26.56	26.40	26.78	26.96	26.14	26.46	26.38	26.96	28.53	29.15
10	---	27.31	26.51	26.33	26.62	26.78	26.03	26.21	27.45	26.75	28.27	28.43
15	27.68	27.04	26.58	26.26	26.70	26.64	26.28	25.98	28.08	26.63	28.84	28.07
20	27.38	26.92	26.75	26.81	26.61	26.52	26.09	25.85	27.32	27.70	28.23	27.74
25	27.17	26.78	26.59	26.62	27.52	26.39	25.93	25.69	27.03	27.46	28.98	27.68
EOM	26.99	26.66	26.46	26.85	27.22	26.26	26.36	25.51	26.96	28.48	29.00	28.44
MAX	---	27.67	26.83	26.85	27.57	27.15	26.36	26.47	28.09	28.68	29.41	29.15





LEE COUNTY—Continued

WELL NUMBER.--263138082112801. Local Number L 5766.

LOCATION.--Lat 26°31'38", long 82°11'27", in NE ¼ NW ¼ SW ¼ sec.26, T.45 S., R.21 E., Hydrologic Unit 03100103, behind two storage sheds, 350 ft southwest of the South Seas Plantation Dive Shop, 0.05 mi southeast of South Seas Plantation Road, northeast of Captiva Road, northeast of Captiva Post Office. (Corrected).

AQUIFER.--Upper Florida aquifer of the Oligocene Age, Geologic Unit 120 UFAQ.

WELL CHARACTERISTICS.--Driven, observation, artesian well, diameter 4 in., depth 730 ft, cased to 686 ft, open hole 686 to 730 ft.

INSTRUMENTATION.--Monthly measurement with pressure gage.

DATUM.--Measuring point: Top of 4 in. by 2 in. reducer, 7.57 ft above National Geodetic Vertical Datum of 1929.

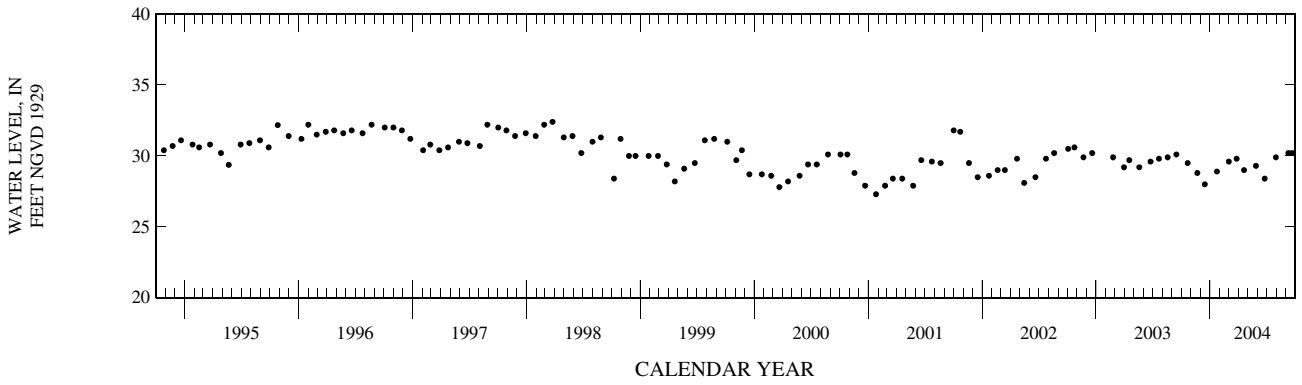
LAND-SURFACE DATUM.--Land surface is approximately 4.3 ft above NGVD.

PERIOD OF RECORD.--April 1989 to September 1993 (monthly), October 1993 to September 1994 (semiannual), October 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 33.3 ft NGVD, Oct. 5, 1989; lowest, 27.3 ft NGVD, Jan. 25, 2001.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
21...	1435	29.5	19...	0951	29.0
NOV			MAY		
21...	1105	28.8	27...	0911	29.3
DEC			JUN		
15...	1112	28.0	24...	1128	28.4
JAN			JUL		
23...	1002	28.9	30...	0912	29.9
MAR			SEP		
01...	0930	29.6	08...	1109	30.2
26...	1008	29.8	20...	1106	30.2



LEE COUNTY—Continued

WELL NUMBER.--263233081550301. Local Number L 1598.

LOCATION.--Lat 26°32'32", long 81°55'02", in SW ¼ NW ¼ SW ¼ sec.21, T.45 S., R.24 E., Hydrologic Unit 03090205, 400 ft west of intersection of South Town and River Drive and McGregor Boulevard (State Road 867), 17 ft north of South Town and River Drive, and 2.1 mi southeast of Cape Coral Post Office.

AQUIFER.--Mid-Hawthorn aquifer of the Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 2 in., depth 176 ft, cased to 137 ft, open hole 137 to 176 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 9.02 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 6.5 ft above NGVD.

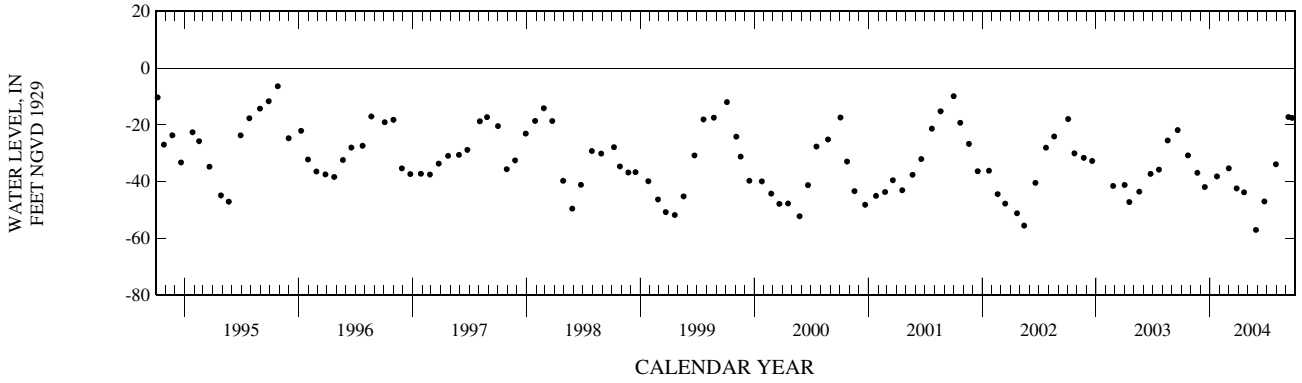
REMARKS.--Records of water levels prior to October 1975 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--July 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.87 ft NGVD, Mar. 30, 1978; lowest, 57.03 ft below NGVD, May 27, 2004.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
22...	1104	-30.74	19...	1546	-43.76
NOV			MAY		
21...	0810	-36.90	27...	1421	-57.03
DEC			JUN		
15...	1520	-41.90	23...	1531	-46.99
JAN			JUL		
23...	1355	-38.17	30...	1421	-33.91
MAR			SEP		
01...	1410	-35.32	08...	1502	-17.24
26...	1518	-42.38	20...	1328	-17.55



LEE COUNTY—Continued

WELL NUMBER.--263242081572101. Local Number L 2244.

LOCATION.--Lat 26°32'43", long 81°57'18", in SE $^1/_4$ NW $^1/_4$ NW $^1/_4$ sec.19, T.45 S., R.24 E., Hydrologic Unit 03090205, in front yard of 931 Dolphin Drive, 4.5 ft north of Dolphin Drive, 0.5 mi west of Driftwood Parkway and 1.5 mi southwest of Cape Coral Post Office.

AQUIFER.--Mid-Hawthorn aquifer of the Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 207 ft, cased to 150 ft, open hole 150 to 207 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 4.58 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 5.4 ft above NGVD.

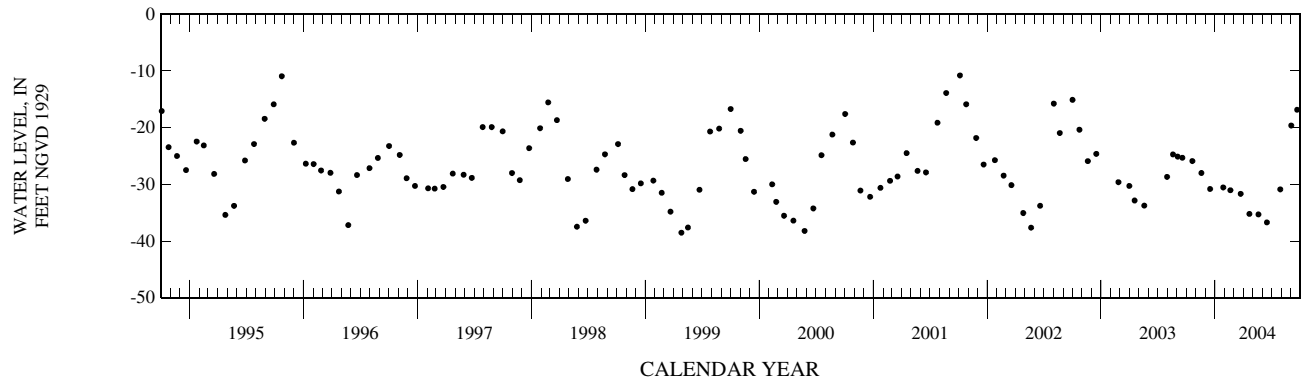
REMARKS.--No salinity monitoring for the current year. Well was previously used for salinity monitoring from April 1978 to April 2002. During the 2003 water year salinity monitoring was discontinued because of an obstruction that prevents sampling the well. Conductivity and chloride profiles for previous water years are available in the files of the U.S. Geological Survey.

PERIOD OF RECORD.--December 1977 to April 1988 (intermittent), May 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.29 ft below NGVD, Sept. 25, 1979; lowest, 44.97 ft below NGVD, May 25, 1994.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
20...	1439	-25.91	20...	1105	-35.22
NOV			MAY		
18...	1245	-28.01	19...	1035	-35.31
DEC			JUN		
16...	1255	-30.83	15...	1041	-36.72
JAN			JUL		
27...	1411	-30.56	28...	1039	-30.90
FEB			SEP		
19...	0805	-31.05	01...	1249	-19.64
MAR			20...	1452	-16.87
23...	0946	-31.68			



LEE COUNTY—Continued

WELL NUMBER.--263249081474401. Local Number L 5648.

LOCATION.--Lat 26°32'50", long 81°47'58", in SE ¼ SE ¼ NW ¼ sec.22, T.45 S., R.24 E., Hydrologic Unit 03090204, on the north side of Daniels Road, 113 ft east of Danport Boulevard, 600 ft west of U.S. Interstate 75, and 6.5 mi southeast of Ft. Myers Post Office.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 123 ft, cased to 118 ft, screened 118 to 123 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of PVC threaded coupling, 23.70 ft above National Geodetic Vertical Datum of 1929. Prior to October 2002, measuring point was 24.01 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 23.9 ft above NGVD.

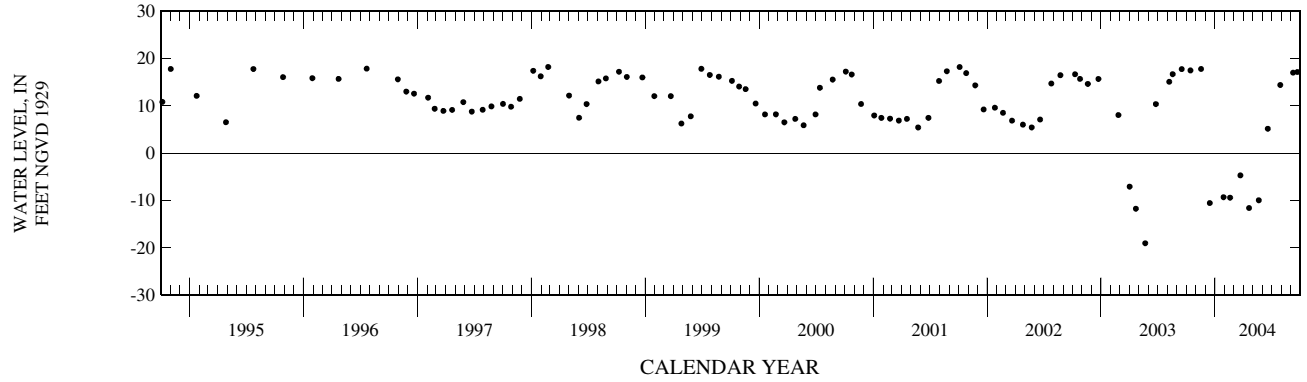
REMARKS.--Records of water levels prior to October 1983 are available in files of the U.S. Geological Survey. The well measuring point was altered due to construction sometime between the months of October 2002 to September 2003, the exact date cannot be determined. This alteration caused the measuring point to change by -0.31 ft. Water level elevations between October 2002 and September 2003 may be in error by 0.31 ft.

PERIOD OF RECORD.--June 1982 to September 1994 (monthly), October 1994 to September 1996 (quarterly), October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.57 ft NGVD, Sept. 28, 1983; lowest, 19.04 ft below NGVD, May 22, 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
14...	0828	17.51	19...	1259	-11.58
NOV			MAY		
17...	1212	17.83	20...	0948	-9.94
DEC			JUN		
15...	1247	-10.53	18...	1518	5.18
JAN			JUL		
28...	0840	-9.29	28...	1230	14.43
FEB			SEP		
18...	0918	-9.39	07...	1250	17.05
MAR			21...	1346	17.18
22...	1210	-4.67			



LEE COUNTY—Continued

WELL NUMBER.--263249081474402. Local Number L 5720.

LOCATION.--Lat 26°32'50", long 81°47'58", in SE ¼ SE ¼ NW ¼ sec.22, T.45 S., R.24 E., Hydrologic Unit 03090204, on the north side of Daniels Road, 105 ft east of Danport Boulevard, 600 ft west of U.S. Interstate 75, and 6.5 mi southeast of Ft. Myers Post Office.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 30 ft, cased to 20 ft, screened 20 to 30 ft, with 0.02 in. slot.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 24.12 ft above National Geodetic Vertical Datum of 1929. Prior to October 2002, measuring point was 24.40 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 24.2 ft above NGVD.

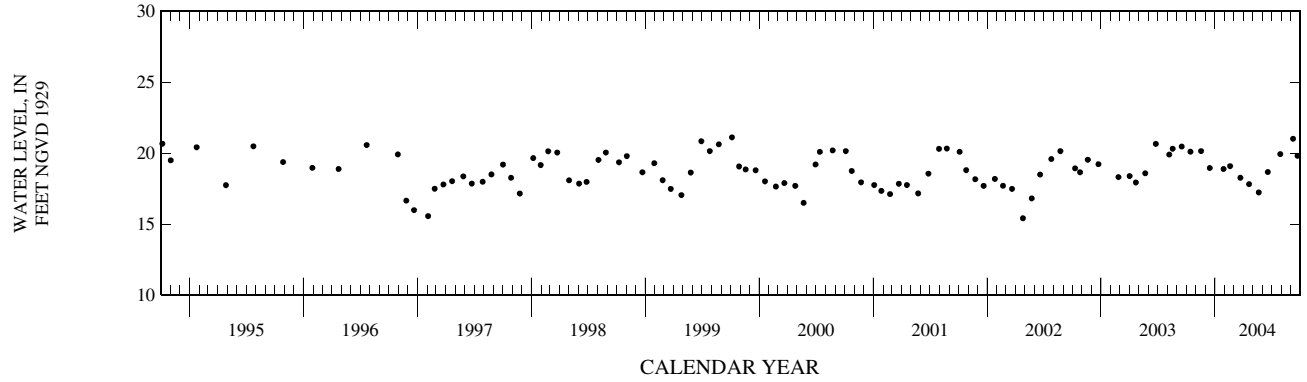
REMARKS.--The well measuring point was altered due to construction sometime between the months of October 2002 to September 2003, the exact date cannot be determined. The alteration caused the measuring point to change by -0.28 ft. Water level elevation between October 2002 and September 2003 may be in error by 0.28 ft.

PERIOD OF RECORD.--April 1986 to September 1994 (monthly), October 1994 to September 1996 (quarterly), October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.47 ft NGVD, Oct. 23, 1992; lowest, 15.42 ft NGVD, Apr. 25, 2002.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
14...	0834	20.11	19...	1302	17.82
NOV			MAY		
17...	1215	20.15	20...	0945	17.24
DEC			JUN		
15...	1253	18.96	18...	1521	18.68
JAN			JUL		
28...	0844	18.89	28...	1235	19.94
FEB			SEP		
18...	0924	19.09	07...	1254	21.02
MAR			21...	1348	19.82
22...	1208	18.27			



LEE COUNTY—Continued

WELL NUMBER.--263251081452801. Local Number L 1993.

LOCATION.--Lat 26°32'52", long 81°45'37", in NE ¼ NE ¼ SE ¼ sec.24, T.45 S., R.25 E., 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.

AQUIFER.--Mid-Hawthorn aquifer of the Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 242 ft, cased to 190 ft, open hole 190 to 242 ft.

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

DATUM.--Measuring point: Top of recorder shelf, 27.37 ft above National Geodetic Vertical Datum of 1929. 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. The figures of water levels as elevation, in feet NGVD, prior to October 1, 2001 are in error. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 24.0 ft above NGVD.

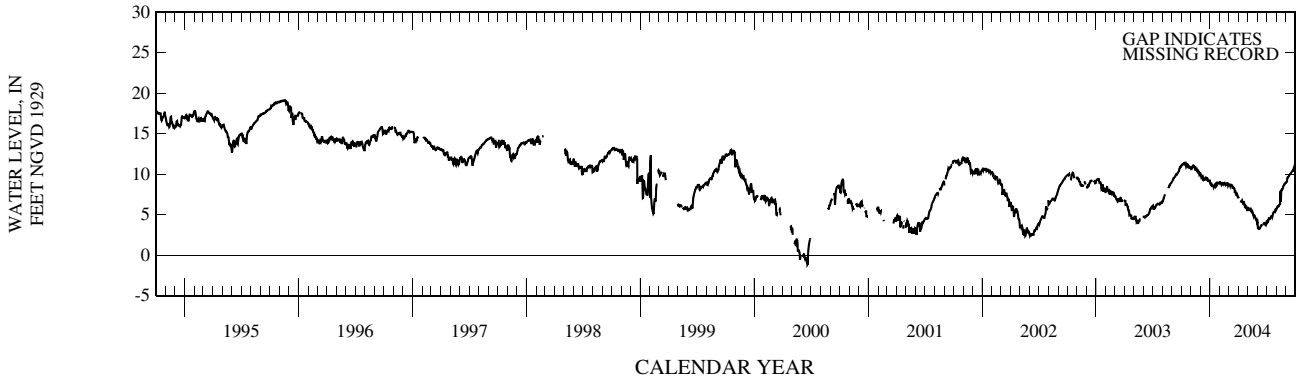
REMARKS.--On December 11, 2002, the well was re-leveled and the land-surface datum was found to be 23.95 ft above National Geodetic Vertical Datum of 1929. A -0.69 ft correction has been applied to daily maximum values data prior to October 1, 2001. Corrected records are available in the files of the U.S. Geological Survey. The station was reconstructed on March 9, 1978, March 19, 1983, January 3, 1985 and March 15, 2001. See DATUM.

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

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 26.10 ft NGVD Nov. 13, 1975 (present datum); lowest, 1.15 ft below NGVD, June 19, 2000 (present datum). (Corrected).

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	11.22	10.90	9.70	8.78	8.93	8.67	---	5.65	3.38	4.29	6.04	9.58
10	11.26	10.83	9.28	8.60	8.89	8.67	6.69	5.72	3.48	4.58	6.20	9.79
15	11.13	10.79	9.45	8.46	8.84	8.32	6.43	5.44	3.77	4.75	6.64	10.09
20	11.23	10.40	9.49	8.48	8.82	7.86	6.23	4.75	3.84	5.08	8.12	10.37
25	10.95	10.21	9.24	8.94	8.91	7.56	5.94	4.61	3.92	5.33	8.70	10.67
EOM	10.81	10.02	9.22	8.99	8.65	7.18	5.74	4.01	4.16	5.61	8.94	10.81
MAX	11.42	11.08	10.05	8.99	9.03	8.71	---	5.81	---	5.69	8.95	10.82



LEE COUNTY—Continued

WELL NUMBER.--263251081452802. Local Number L 1994.

LOCATION.--Lat 26°32'52", long 81°45'37", in NE ¼ NE ¼ SE ¼ sec.24, T.45 S., R.25 E., 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.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 155 ft, cased 0 to 70 ft and 100 to 125 ft, screened 70 to 100 ft, open hole 125 to 155 ft.

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

DATUM.--Measuring point: Top of recorder shelf, 25.52 ft above National Geodetic Vertical Datum of 1929. From September 30, 2001 to April 7, 2004 the measuring point was 26.93 ft above NGVD. From May 10, 2000 to September 30, 2001, measuring point was incorrectly considered to be 27.62 ft above NGVD. From July 28, 1981 to May 9, 2000, top of shelf was 27.83 above NGVD, but was incorrectly considered to be 28.52 ft above NGVD. Prior to July 28, 1981, top of shelf was 27.86 ft above NGVD, but was incorrectly considered to be 28.55 ft above NGVD. The figures of water levels as elevation, in feet NGVD, prior to October 1, 2001 are in error. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 24.3 ft above NGVD.

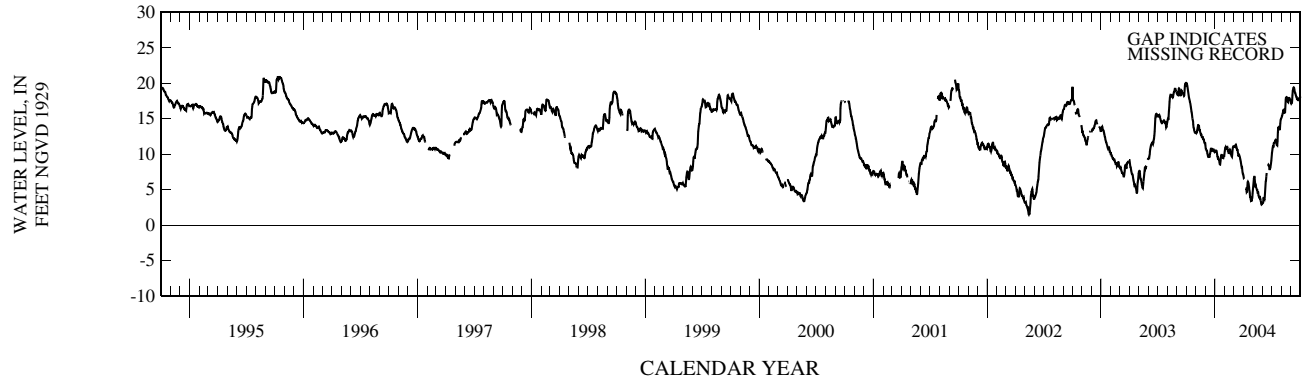
REMARKS.--On December 11, 2002, the well was releveled and land-surface datum was found to be 23.95 ft above National Geodetic Vertical Datum of 1929. A -0.69 ft correction has been applied to daily maximum values data prior to October 1, 2001. Corrected records are available in the files of the U.S. Geological Survey. See DATUM. The station was reconstructed on March 9, 1978, July 27, 1981, May 9, 2000, and April 7, 2004.

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

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 22.46 ft NGVD, Oct. 7, 1975; lowest, 1.50 ft NGVD, May 14, 2002. (Corrected).

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	19.32	13.51	10.50	10.49	10.87	11.24	---	6.82	3.84	11.14	15.78	18.33
10	17.85	14.01	9.61	9.59	10.66	10.91	5.05	5.62	5.48	11.68	15.87	19.38
15	16.67	13.04	10.03	8.82	10.41	10.01	6.13	4.98	---	11.66	17.95	18.42
20	15.03	12.41	10.80	9.74	10.09	9.67	4.87	4.08	8.49	13.09	17.51	17.73
25	13.65	12.13	10.64	9.57	10.03	8.38	3.47	3.73	8.05	13.38	17.94	17.52
EOM	13.10	11.56	10.46	10.01	11.11	7.18	4.50	3.04	9.61	15.02	17.27	18.15
MAX	20.04	14.11	11.27	10.51	11.11	11.29	---	6.82	---	15.02	18.00	19.44



LEE COUNTY—Continued

WELL NUMBER.--263251081452803. Local Number L 1995.

LOCATION.--Lat 26°32'52", long 81°45'37", in NE ¼ NE ¼ SE ¼ sec.24, T.45 S., R.25 E., 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.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 24 ft, cased to 14 ft, screened 14 to 24 ft.

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

DATUM.--Measuring point: Top of recorder shelf, 27.87 ft above National Geodetic Vertical Datum of 1929. From December 19, 1985 to September 30, 2001, measuring point was incorrectly considered to be 28.57 ft above NGVD. From May 15, 1981 to December 16, 1983, top of shelf was 27.88 ft above NGVD, but was incorrectly considered to be 28.58 ft above NGVD. Prior to May 15, 1981, measuring point was 27.94 ft above NGVD, but was incorrectly considered to be 28.64 ft above NGVD. The figures of water levels as elevation, in feet NGVD, prior to October 1, 2001, are in error. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 23.9 ft above NGVD.

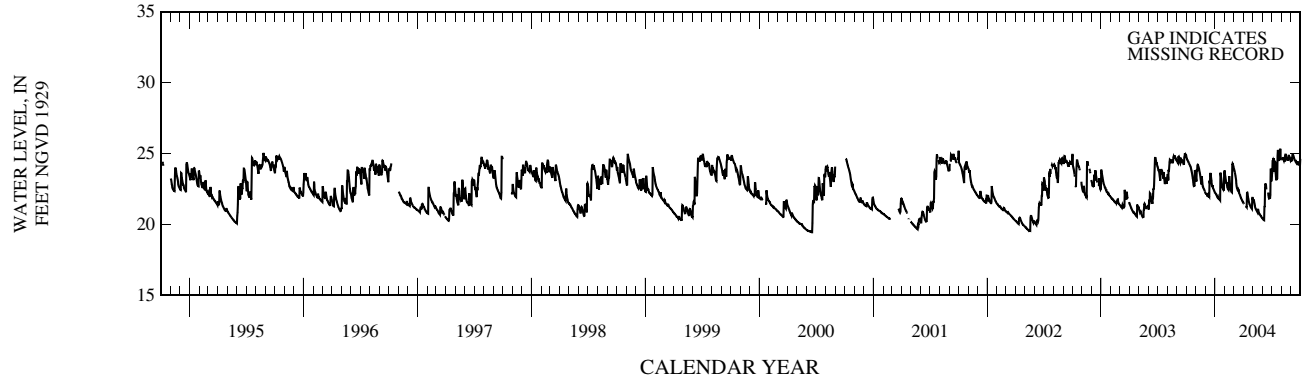
REMARKS.--On December 11, 2002, the well was releveled and the land-surface datum was found to be 23.94 ft above National Geodetic Vertical Datum of 1929. A -0.70 ft correction has been applied to daily maximum values data prior to October 1, 2001. Corrected records are available in the files of the U.S. Geological Survey. See DATUM. The station was reconstructed on March 9, 1978, May 15, 1981 and December 16, 1983.

PERIOD OF RECORD.--January 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 25.34 ft NGVD, July 28, 2004; lowest, 17.86 ft NGVD, Mar. 30, 1990 (present datum).

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	24.53	24.13	22.13	22.09	23.04	23.56	---	21.58	20.31	24.37	24.65	24.94
10	24.28	23.98	22.23	21.95	22.59	22.72	21.26	21.12	22.90	24.06	24.55	24.68
15	24.01	23.32	22.89	21.76	23.41	22.37	21.95	20.91	---	23.12	24.77	24.44
20	23.42	23.20	23.08	23.35	22.47	22.10	21.49	20.85	22.06	25.25	24.56	24.32
25	22.71	22.55	22.62	22.57	24.21	21.81	21.23	20.65	21.83	24.91	24.84	24.18
EOM	23.35	22.26	22.28	23.76	24.05	21.57	21.88	20.46	23.37	24.63	24.53	24.63
MAX	24.72	24.21	23.64	23.76	24.29	23.98	---	21.74	---	25.34	24.93	24.94



LEE COUNTY—Continued

WELL NUMBER.--263253082014201. Local Number L 2643.

LOCATION.--Lat 26°32'56", long 82°01'50", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.17, T.45 S., R.23 E., Hydrologic Unit 03100103, in the median of El Dorado Boulevard West, 100 ft east of Sands Boulevard, and 5.3 mi west of the Cape Coral Post Office.

AQUIFER.--Mid-Hawthorn aquifer of the Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 200 ft, cased to 141 ft, open hole 141 to 200 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 9.28 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 6.5 ft above NGVD.

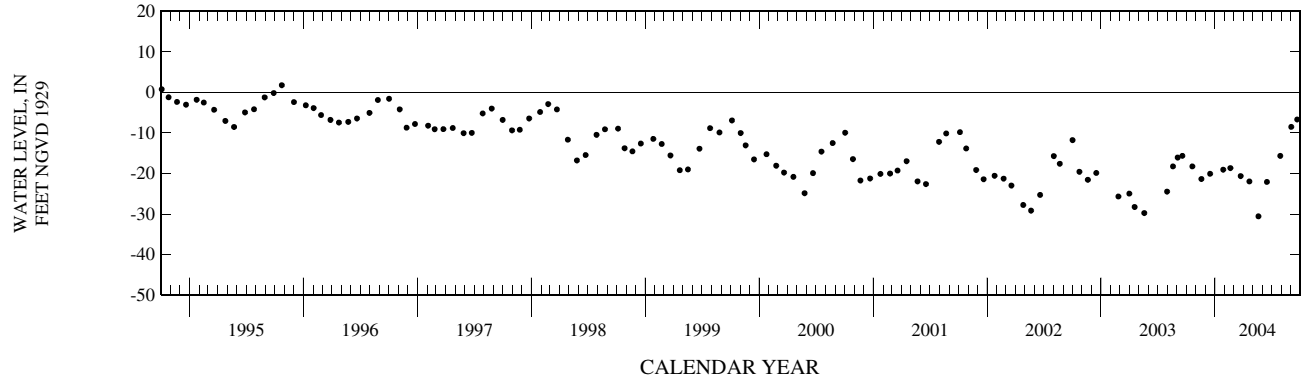
REMARKS.--Well is also used for salinity monitoring until September 2004. Conductivity and chloride profiles for previous water years are available in the files of the U.S. Geological Survey. Records of water levels, prior to October 1980, are available in the files of the U.S. Geological Survey. The well was originally open to the aquifer from 141 to 200 ft. The well's open interval has collapsed or become obstructed at a depth of 145 ft.

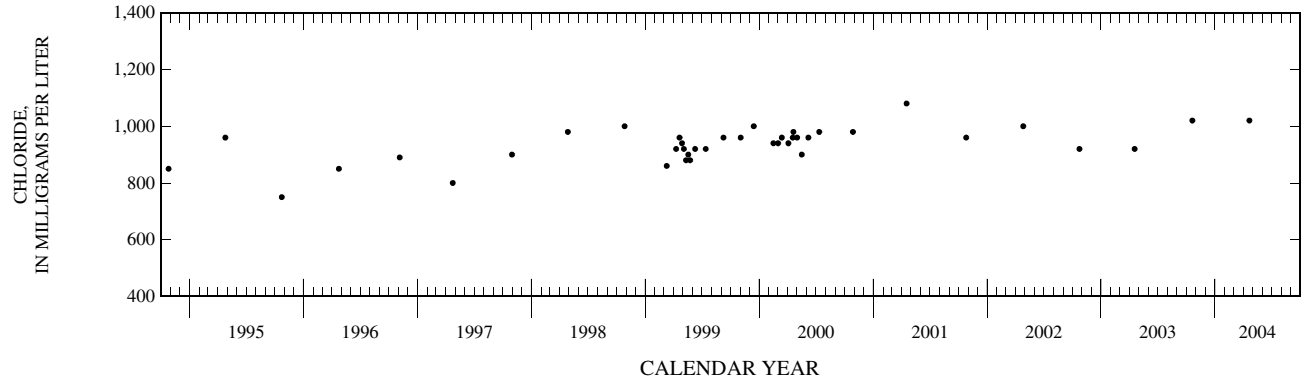
PERIOD OF RECORD.--May 1978 to September 1979 (bimonthly), October 1979 to September 1980 (semiannual), October 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.31 ft NGVD, Sept. 28, 1978; lowest, 30.56 ft below NGVD, May 19, 2004.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
20...	1324	-18.25	3,830	1,020
NOV				
18...	1216	-21.35	--	--
DEC				
16...	1226	-20.07	--	--
JAN				
27...	1346	-19.05	--	--
FEB				
19...	0855	-18.66	--	--
MAR				
23...	0929	-20.63	--	--
APR				
20...	1020	-21.96	3,790	1,020
MAY				
19...	1012	-30.56	--	--
JUN				
15...	1017	-22.07	--	--
JUL				
28...	1009	-15.65	--	--
SEP				
01...	1206	-8.49	--	--
20...	1429	-6.67	--	--





LEE COUNTY—Continued

WELL NUMBER.--263257081585701. Local Number L 2642.

LOCATION.--Lat 26°32'58", long 81°58'56", in SE ¼ SW ¼ sec.14, T.45 S., R.23 E., Hydrologic Unit 03090205, in the median of Pelican Boulevard, 150 ft north of El Dorado Parkway West, 1 mi south of Cape Coral Parkway and 2.5 mi southwest of the Cape Coral Post Office.

AQUIFER.--Mid-Hawthorn aquifer of the Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 160 ft, cased to 108 ft, open hole 108 to 160 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 7.82 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 5.4 ft above NGVD.

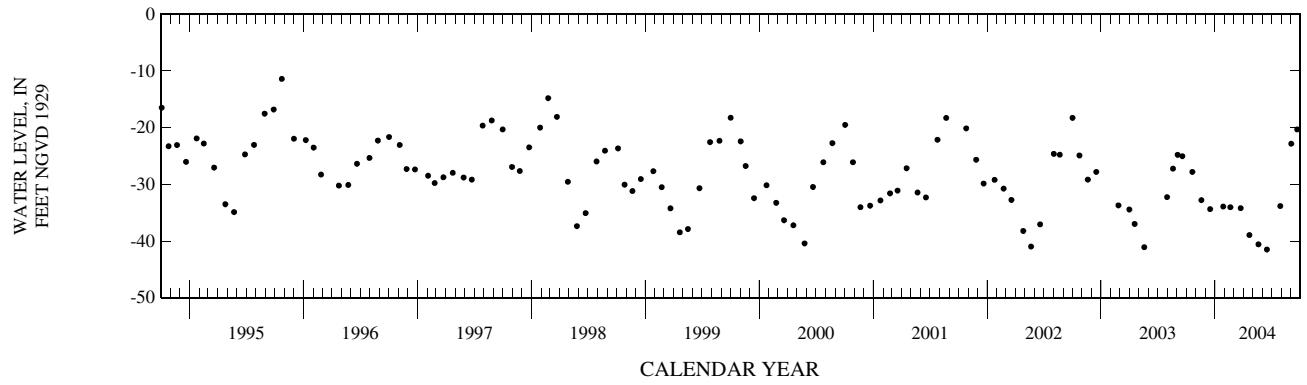
REMARKS.--Well is also used for salinity monitoring until September 2004. Conductivity and chloride profiles for previous water years are available in the files of the U.S. Geological Survey. Records of water level, prior to October 1980, are available in the files of the U.S. Geological Survey.

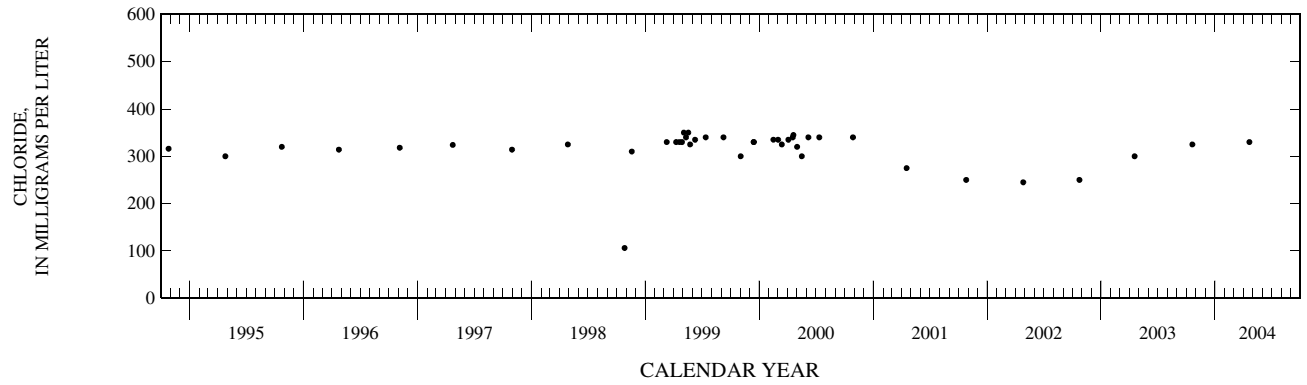
PERIOD OF RECORD.--May 1978 to August 1979 (bimonthly), October 1979 to October 1980 (semiannual), January 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.14 ft below NGVD, Aug. 1, 1978; lowest, 41.49 ft below NGVD, June 15, 2004.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
20...	1402	-27.82	1,390	325
NOV				
18...	1233	-32.79	--	--
DEC				
16...	1243	-34.37	--	--
JAN				
27...	1357	-33.93	--	--
FEB				
19...	0822	-34.04	--	--
MAR				
23...	0948	-34.21	--	--
APR				
20...	1041	-38.94	1,370	330
MAY				
19...	1020	-40.58	--	--
JUN				
15...	1025	-41.49	--	--
JUL				
28...	1022	-33.84	--	--
SEP				
01...	1236	-22.85	--	--
20...	1444	-20.33	--	--





LEE COUNTY—Continued

WELL NUMBER.--263307081555901. Local Number L 2435.

LOCATION.--Lat 26°34'07", long 81°55'59", in NW $^1/_4$ SE $^1/_4$ sec.8, T.45 S., R.24 E., Hydrologic Unit 03090205, at intersection of 20th Place and 44th Street, 15 ft east of 20th Place, 37 ft south of 44th Street, and 0.6 mi northeast of Cape Coral Post Office.

AQUIFER.--Lower Hawthorn aquifer of Oligocene to Miocene Age, Geologic Unit 122 LMSN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 704 ft, cased to 352 ft, open hole 352 to 704 ft.

INSTRUMENTATION.--Monthly measurement with pressure gage.

DATUM.--Measuring point: Top of 10 in. casing, 6.19 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 5.7 ft above NGVD. (Corrected). See REMARKS.

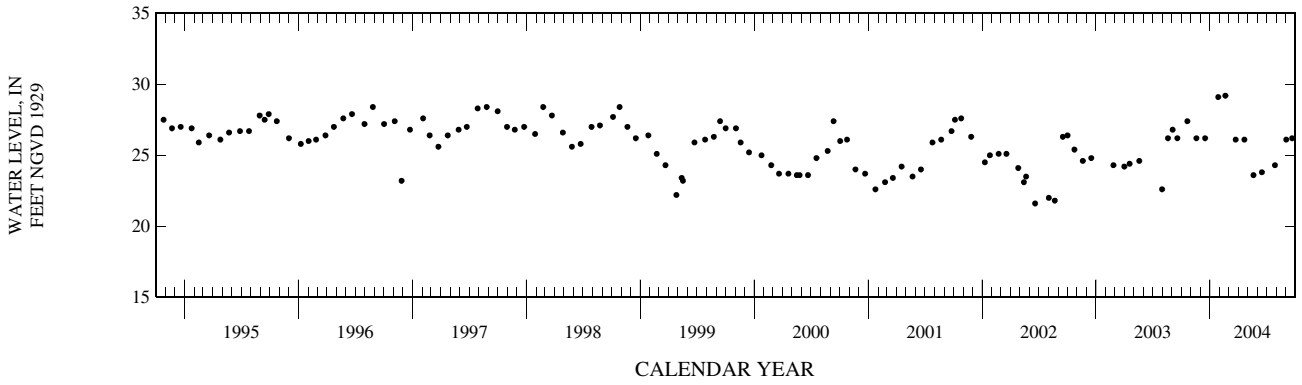
REMARKS.--Records of water levels prior to October 1978 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--March 1977 to September 1993 (monthly), October 1993 to September 1994 (intermittent), October 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.8 ft NGVD, Sept. 27, 1979; lowest, 21.6 ft NGVD, June 19, 2002.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)
OCT		
20...	1439	27.4
NOV		
18...	1339	26.2
DEC		
16...	1309	26.2
JAN		
27...	1431	29.1
FEB		
19...	0748	29.2
MAR		
23...	1005	26.1
APR		
20...	1202	26.1
MAY		
19...	1051	23.6
JUN		
15...	1059	23.8
JUL		
27...	1501	24.3
SEP		
01...	1307	26.1
20...	1311	26.2



LEE COUNTY—Continued

WELL NUMBER.--263323081522401. Local Number L 742.

LOCATION.--Lat 26°33'26", long 81°52'24", in SE ¼ SE ¼ sec.14, T.45 S., R.24 E., Hydrologic Unit 03090205, 175 ft north of College Parkway, 0.1 mi west of U.S. Highway 41, and 6.0 mi south of Fort Myers Post Office.

AQUIFER.--Mid-Hawthorn aquifer of the Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 225 ft, cased to 138 ft, open hole 138 to 225 ft.

INSTRUMENTATION.--Satellite data collection platform, with pressure transducer.

DATUM.--Measuring point: Top of recorder shelf, 11.44 ft above National Geodetic Vertical Datum of 1929. Prior to October 1989, top of shelf was 11.47 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 10.3 ft above NGVD.

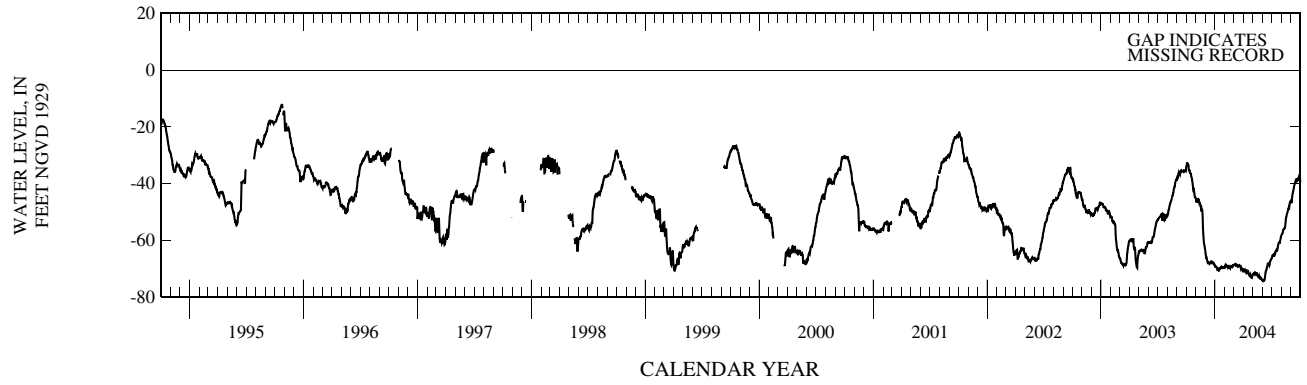
REMARKS.--Well is also used for salinity monitoring until September 2004. Records of water levels, prior to October 1973, are available in the files of the U.S. Geological Survey.

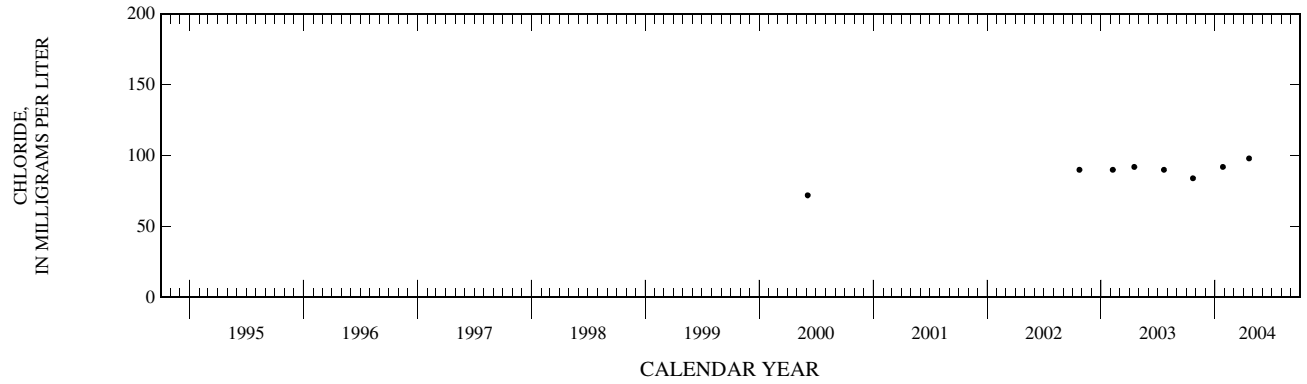
PERIOD OF RECORD.--October 1968 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 3.02 ft NGVD, Dec. 15, 1968; lowest, 78.61 ft below NGVD, May 16, 1974.

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	-32.92	-46.55	-66.11	-69.52	-68.96	-68.35	-70.80	-71.68	-74.00	-65.13	-57.11	-43.98
10	-35.29	-46.61	-68.35	-70.33	-69.11	-68.89	-71.11	-71.42	-71.62	-65.04	-55.89	-41.13
15	-36.43	-47.85	-67.95	-70.17	-69.24	-69.23	-71.01	-72.26	-69.36	-63.79	-52.44	-39.05
20	-39.56	-49.00	-67.38	-69.52	-69.11	-69.11	-72.29	-72.81	-68.25	-62.20	-50.06	-38.69
25	-41.78	-59.38	-67.93	-69.54	-69.41	-70.02	-72.93	-73.20	-67.48	-61.18	-49.05	-37.87
EOM	-45.20	-63.27	-68.75	-69.46	-68.67	-70.76	-72.13	-73.94	-66.45	-58.55	-45.91	-39.67
MAX	-32.74	-45.14	-64.23	-69.11	-68.67	-68.35	-70.43	-71.26	-66.45	-58.55	-45.91	-37.20





LEE COUNTY—Continued

WELL NUMBER.--263327081512001. Local Number L 1121.

LOCATION.--Lat 26°33'28", long 81°51'19", in NE $^1/_4$ SE $^1/_4$ sec.13, T.45 S., R.23 E., Hydrologic Unit 03090205, 120 ft east of the intersection of Fordham Street and Gorham Avenue, 65 ft east of backyard fence of house at 8766 Fordham Street, and 2 mi south of Ft. Myers Post Office at Page Field.

AQUIFER.--Mid-Hawthorn aquifer of the Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 2 in., depth 220 ft, cased to 147 ft, open hole 147 to 220 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.-- Measuring point: Top of casing, 16.16 ft above National Geodetic Vertical Datum of 1929.

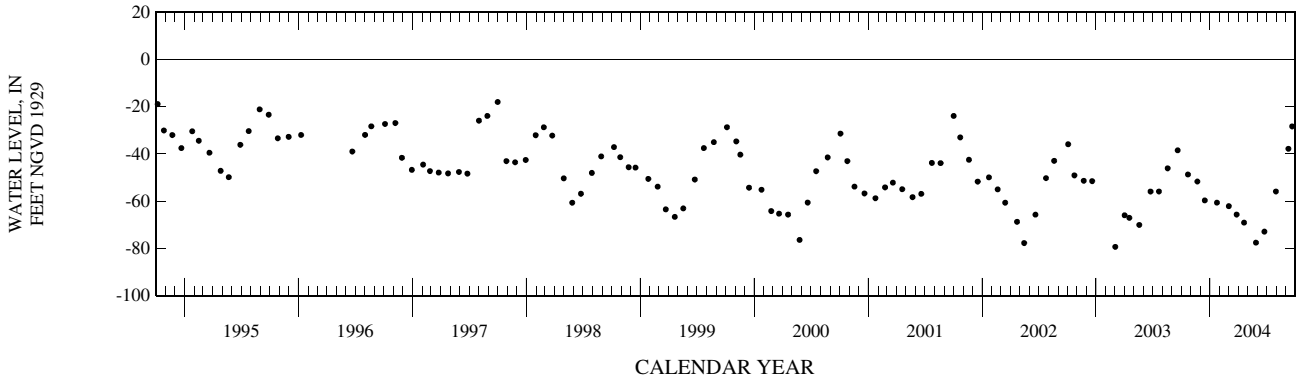
LAND-SURFACE DATUM.--Land surface is 15.7 ft above NGVD.

PERIOD OF RECORD.--August 1970 to March 1971 (semiannual), May 1973 to April 1974 (annual), May 1975 to April 1978 (semiannual), June 1978 to August 1979 (bimonthly), September 1979 to May 1985 (semiannual), June 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.20 ft NGVD, Oct. 20, 1970; lowest, 79.31 ft below NGVD, Mar. 3, 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
22...	1157	-48.71	19...	1728	-69.07
NOV			MAY		
21...	1411	-51.66	27...	1448	-77.53
DEC			JUN		
15...	1600	-59.67	23...	1600	-72.87
JAN			JUL		
23...	1317	-60.60	30...	1538	-55.90
MAR			SEP		
01...	1445	-62.09	08...	1536	-37.84
26...	1457	-65.64	20...	1349	-28.38



LEE COUNTY—Continued

WELL NUMBER.--263329081394301. Local Number L 2204.

LOCATION.--Lat 26°33'30", long 81°39'42", in NE $^1/_4$ SE $^1/_4$ SE $^1/_4$ sec.13, T.45 S., R.26 E., Hydrologic Unit 03090205, at southeast corner of intersection of State Road 82 and Alabama Road, and 3.3 mi south of Lehigh Acres Post Office.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 26 ft, cased to 23 ft, open hole 23 to 26 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 30.65 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 30.2 ft above NGVD.

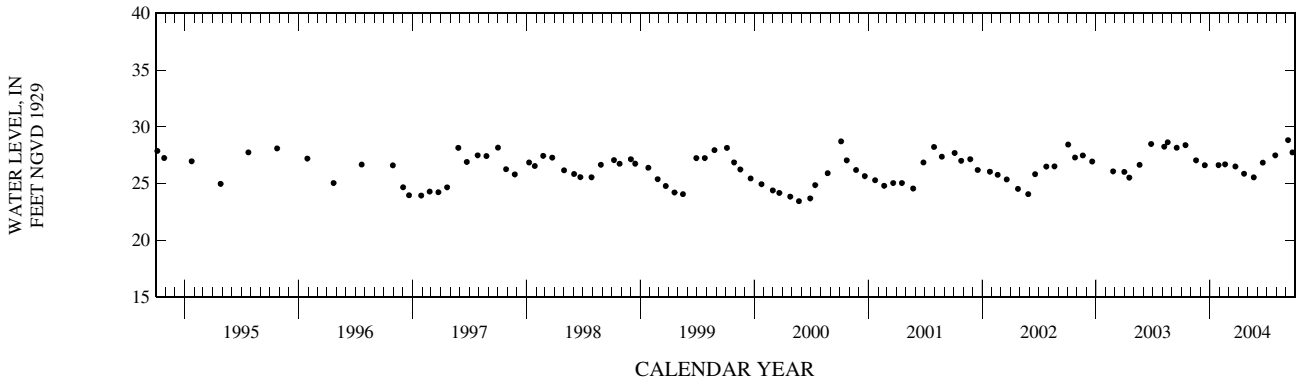
REMARKS.--Records of water levels prior to October 1975 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--September 1975 to September 1994 (monthly), October 1994 to September 1996 (quarterly), October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.44 ft NGVD, Sept. 27, 1979; lowest, 18.31 ft NGVD, Nov. 25, 1985.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
14...	0856	28.39	19...	1033	25.87
NOV			MAY		
17...	1046	27.05	20...	1255	25.55
DEC			JUN		
15...	1102	26.62	18...	1411	26.85
JAN			JUL		
28...	1018	26.63	28...	1520	27.49
FEB			SEP		
18...	1139	26.70	07...	1355	28.83
MAR			21...	1456	27.75
22...	1104	26.51			



LEE COUNTY—Continued

WELL NUMBER.--263329081394302. Local Number L 1625.

LOCATION.--Lat 26°33'30", long 81°39'42", in NE $^1/_4$ SE $^1/_4$ SE $^1/_4$ sec.13, T.45 S., R.26 E., Hydrologic Unit 03090205, at southeast corner of intersection of State Road 82 and Alabama Road, and 3.3 mi south of Lehigh Acres Post Office.

AQUIFER.--Tamiami aquifer of the Pliocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 2 in., depth 218 ft, cased to 162 ft, open hole 162 to 218 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 31.82 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 30.3 ft above NGVD.

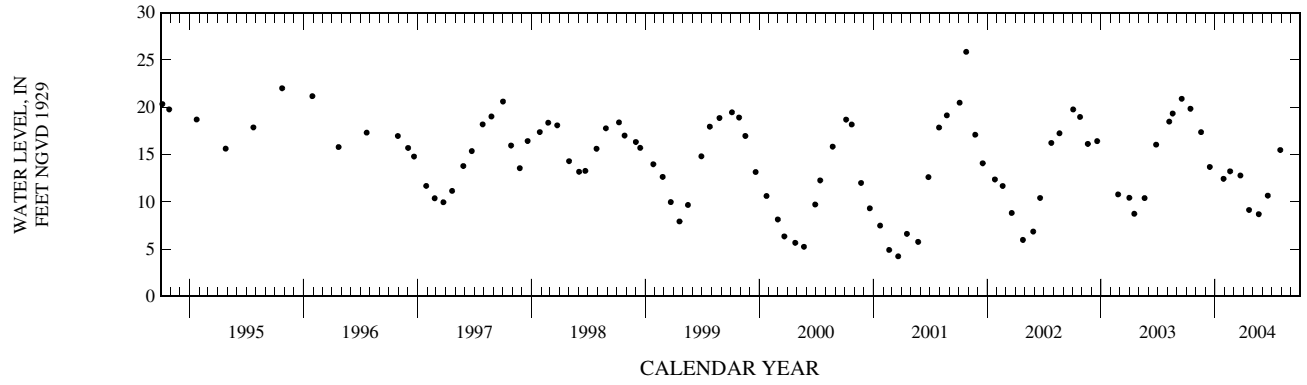
REMARKS.--Records of water levels, prior to October 1982, are available in the files of the U.S. Geological Survey.

PERIOD OF RECORD.--September 1975 to September 1994 (monthly), October 1994 to September 1996 (quarterly), October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.49 ft NGVD, Nov. 25, 1985; lowest, 4.24 ft NGVD, Mar. 21, 2001.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			MAR		
14...	0852	19.85	22...	1101	12.79
NOV			APR		
17...	1042	17.37	19...	1029	9.14
DEC			MAY		
15...	1058	13.69	20...	1257	8.70
JAN			JUN		
28...	1014	12.44	18...	1408	10.66
FEB			JUL		
18...	1137	13.23	28...	1519	15.48



LEE COUNTY—Continued

WELL NUMBER.--263335081394301. Local Number L 729.

LOCATION.--Lat 26°33'37", long 81°39'43", in NE ¼ SE ¼ sec.13, T.45 S., R.26 E., Hydrologic Unit 03090205, at northwest corner of intersection of State Road 82 and Alabama Road, 56 ft west of Alabama Road and 215 ft north of State Road 82 and 3.2 mi south of Lehigh Acres Post Office.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 103 ft, cased to 81 ft, open hole 81 to 103 ft.

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

DATUM.--Measuring point: Top of recorder shelf, 31.80 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 29.3 ft above NGVD.

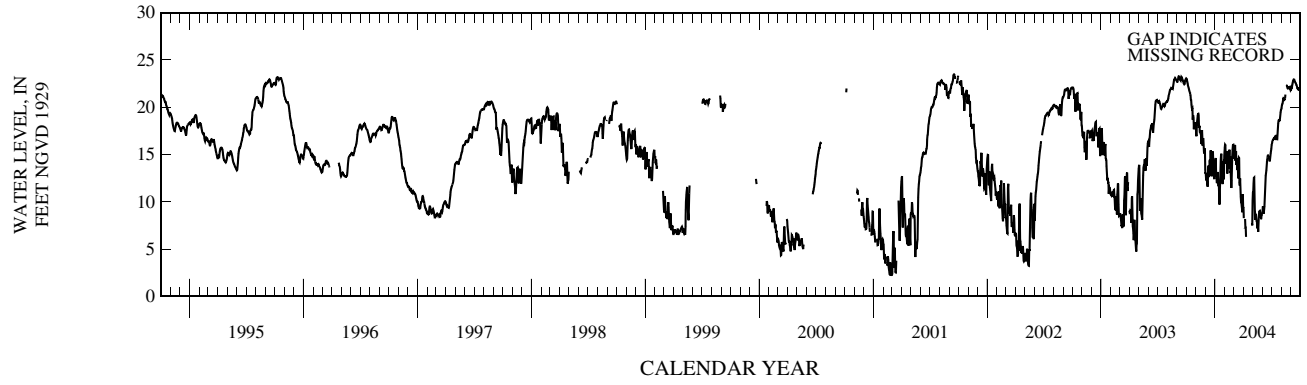
REMARKS.--Records of water levels prior to May 1977 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--August 1968 to May 1977 (monthly), May 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 25.46 ft NGVD, Oct. 1, 2, 1979; lowest, 2.17 ft NGVD, Feb. 25, 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	22.54	18.77	12.84	12.70	14.63	15.92	---	12.59	8.91	16.60	20.57	22.47
10	21.79	17.93	13.46	13.16	13.65	14.61	---	8.69	12.20	16.59	20.80	22.91
15	20.81	17.27	14.44	9.71	15.42	12.48	---	7.21	14.24	16.85	---	22.58
20	19.90	17.59	12.84	15.01	13.21	11.73	---	8.54	14.82	17.84	22.05	22.02
25	17.67	16.00	15.33	11.88	14.90	9.91	---	8.63	14.50	18.52	22.10	21.85
EOM	18.16	13.44	13.67	15.19	14.58	9.39	10.11	8.77	16.02	19.78	21.85	21.88
MAX	23.03	19.31	15.46	15.19	16.05	15.94	---	12.59	16.02	19.78	---	22.92



LEE COUNTY—Continued

WELL NUMBER.--263344081361701. Local Number L 1963.

LOCATION.--Lat 26°33'44", long 81°36'17", in NW ¼ NW ¼ SE ¼ sec.15, T.45 S., R.27 E., Hydrologic Unit 03090205, at northeast corner of Alexander Graham Bell Boulevard and Milwaukee Boulevard, and 4.0 mi southeast of Lehigh Acres Post Office.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 74 ft, cased to 68 ft, screened 68 to 74 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 33.41 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 30.9 ft above NGVD.

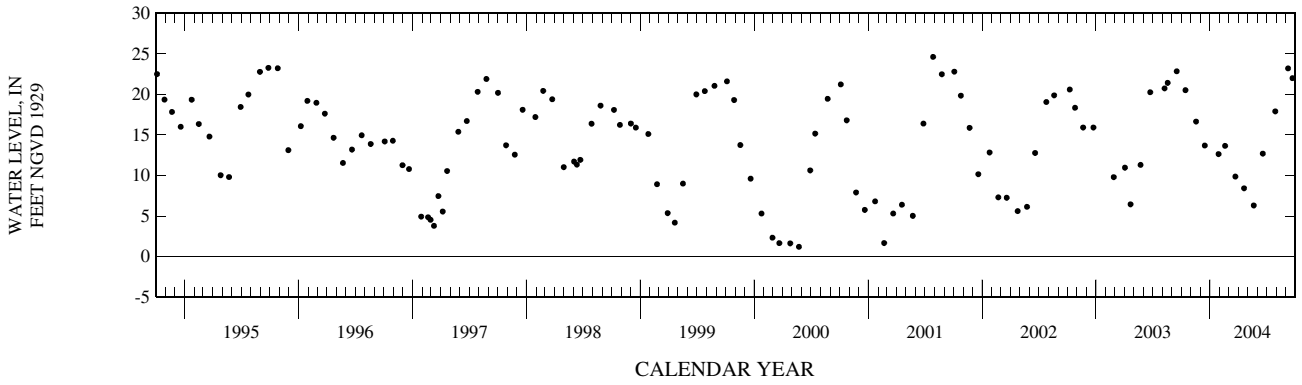
REMARKS.--Records of water levels prior to October 1975 are available in files of the U.S. Geological Survey.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.53 ft NGVD, Sept. 26, 1975; lowest, 1.21 ft NGVD, May 23, 2000.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
14...	1148	20.53	19...	1124	8.42
NOV			MAY		
17...	1059	16.65	20...	1228	6.31
DEC			JUN		
15...	1118	13.70	18...	1350	12.70
JAN			JUL		
28...	1117	12.64	28...	1505	17.91
FEB			SEP		
18...	1156	13.66	07...	1335	23.21
MAR			21...	1433	22.01
22...	1117	9.87			



LEE COUNTY—Continued

WELL NUMBER.--263344081361702. Local Number L 1964.

LOCATION.--Lat 26°33'44", long 81°36'17", in NW ¼ NW ¼ SE ¼ sec.15, T.45 S., R.27 E., Hydrologic Unit 03090205, at northeast corner of Alexander Graham Bell Boulevard and Milwaukee Boulevard, and 4.0 mi southeast of Lehigh Acres Post Office.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 24 ft, cased to 14 ft, open hole 14 to 24 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 33.40 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 31.0 ft above NGVD.

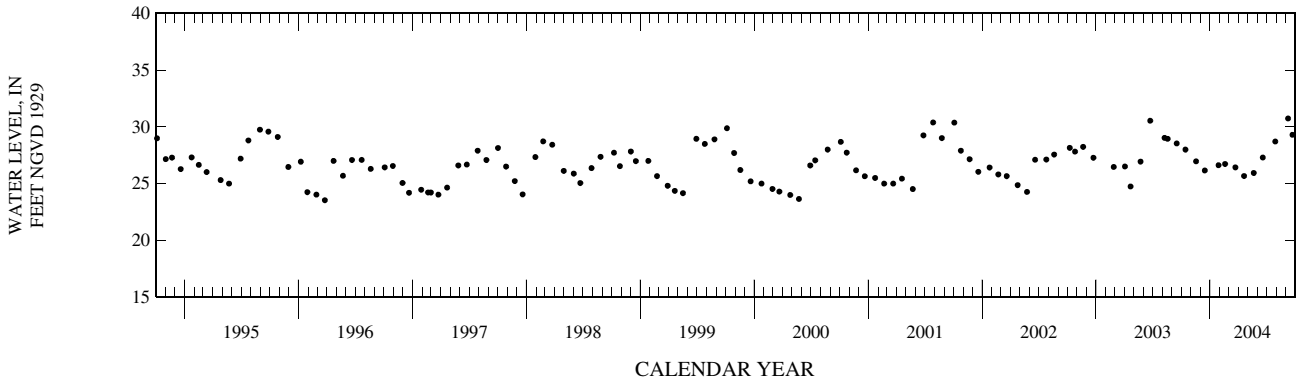
REMARKS.--Records of water levels prior to October 1975 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--December 1974 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 30.74 ft NGVD, Sept. 7, 2004; lowest, 22.47 ft NGVD, May 28, 1975.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
14...	1143	28.00	19...	1128	25.67
NOV			MAY		
17...	1103	26.96	20...	1226	25.94
DEC			JUN		
15...	1121	26.16	18...	1348	27.30
JAN			JUL		
28...	1120	26.62	28...	1506	28.71
FEB			SEP		
18...	1158	26.73	07...	1337	30.74
MAR			21...	1439	29.30
22...	1114	26.43			



LEE COUNTY—Continued

WELL NUMBER.--263344081361703. Local Number L 2186.

LOCATION.--Lat 26°33'44", long 81°36'17", in NW ¼ NW ¼ SE ¼ sec.15, T.45 S., R.27 E., Hydrologic Unit 03090205, at northeast corner of Alexander Graham Bell Boulevard and Milwaukee Boulevard, and 14.0 mi southeast of Lehigh Acres Post Office.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 160 ft, cased to 133 ft, screened 133 to 160 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of recorder shelf, 33.30 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 31.1 ft above NGVD.

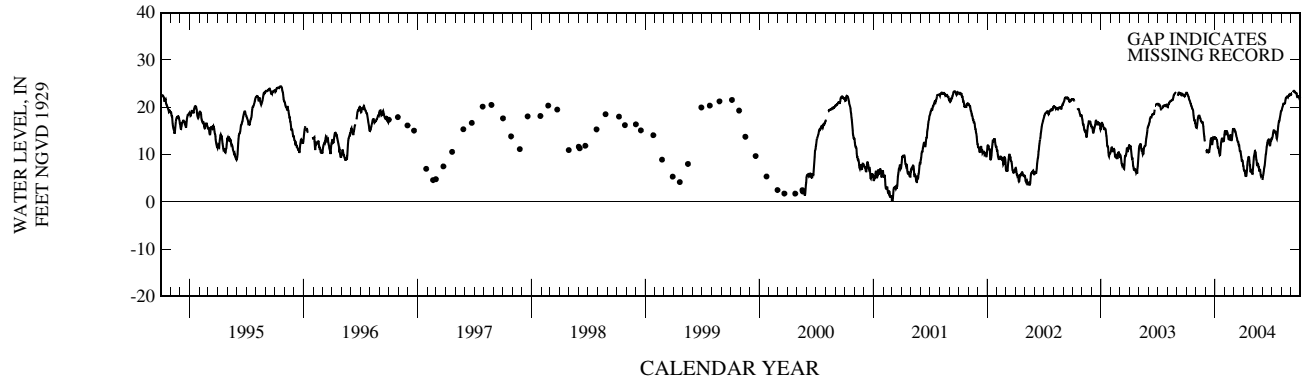
REMARKS--Records of water levels prior to October 1977 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--August 1975 to September 1996 (daily), October 1996 to April 2000 (monthly), May 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 25.30 ft NGVD, Sept. 30, 1979; lowest, 0.09 ft NGVD, Mar. 1, 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	22.71	16.65	10.65	13.30	14.09	14.85	6.63	9.85	6.46	14.72	20.18	---
10	21.60	18.22	10.44	11.48	14.46	13.76	5.59	10.47	9.12	14.81	20.69	23.47
15	20.72	17.61	11.54	10.33	13.89	12.70	8.76	7.59	11.96	14.16	21.97	23.09
20	19.65	16.86	13.45	12.51	13.69	10.75	8.70	7.35	13.17	15.17	22.22	22.17
25	17.79	15.11	13.20	12.85	13.96	9.46	6.67	6.14	11.78	17.10	22.59	22.28
EOM	16.02	---	13.71	14.18	15.40	7.66	6.00	---	13.43	19.18	22.64	21.95
MAX	23.07	---	---	14.18	15.40	15.41	9.43	---	13.43	19.18	22.81	---



LEE COUNTY—Continued

WELL NUMBER.--263344081361704. Local Number L 2311.

LOCATION.--Lat 26°33'44", long 81°36'17", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.15, T.45 S., R.27 E., Hydrologic Unit 03090205, at northeast corner of Alexander Graham Bell Boulevard and Milwaukee Boulevard, and 14 mi southeast of Lehigh Acres Post Office.

AQUIFER.--Lower Hawthorn aquifer of Oligocene to Miocene Age, Geologic Unit 122 LMSN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 625 ft, cased to 300 ft, open hole 300 to 625 ft.

INSTRUMENTATION.--Monthly measurement with pressure gage.

DATUM.--Measuring point: Top of 8 in. casing, 33.35 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 31.2 ft above NGVD.

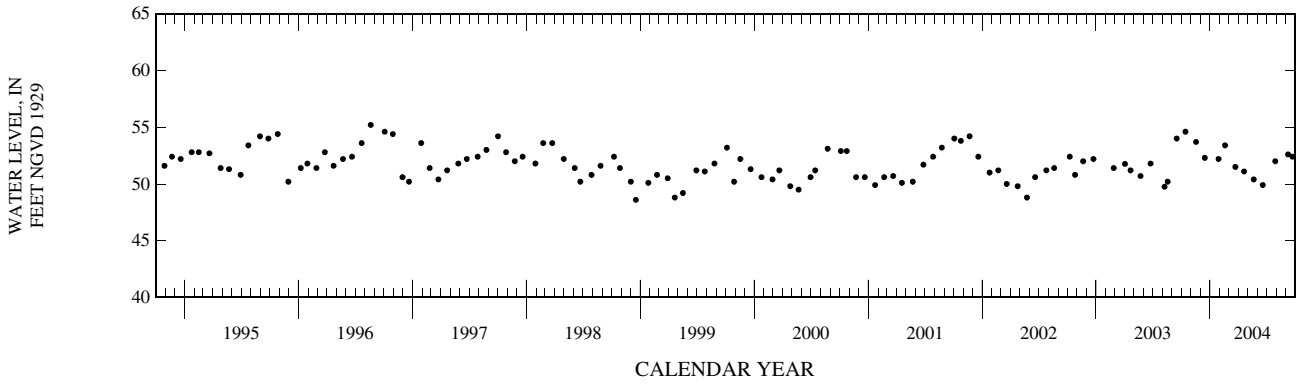
REMARKS.--Records of water levels prior to October 1980 are available in files of the U.S. Geological Survey. Well was also used for salinity monitoring from October 1982 to June 2000.

PERIOD OF RECORD.--August 1976 to September 1993 (monthly), October 1993 to September 1994 (semiannual), October 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 55.2 ft NGVD, Sept. 1, 1988, Aug. 19,1996; lowest, 48.1 ft NGVD, June 28, 1978.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
14...	1154	54.6	19...	1119	51.1
NOV			MAY		
17...	1106	53.7	20...	1232	50.4
DEC			JUN		
15...	1126	52.3	18...	1358	49.9
JAN			JUL		
28...	1113	52.2	28...	1503	52.0
FEB			SEP		
18...	1204	53.4	07...	1340	52.6
MAR			21...	1427	52.4
22...	1121	51.5			



LEE COUNTY—Continued

WELL NUMBER.--263353081335801. Local Number L 1965.

LOCATION.--Lat 26°33'52", long 81°33'58", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.13, T.45 S., R.27 E., Hydrologic Unit 03090205, at intersection of Naples Avenue and Milwaukee Boulevard, 18 ft west of Naples Avenue and 158 ft north of Milwaukee Boulevard, 5.7 mi southeast of Lehigh Acres Post Office.

AQUIFER.--Tamiami aquifer of the Pliocene Age, Geologic Unit 121 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 225 ft, cased to 50 ft, screened 50 to 83 ft, screened 127 to 137 ft, open hole 156 to 225 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 32.07 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 29.7 ft above NGVD.

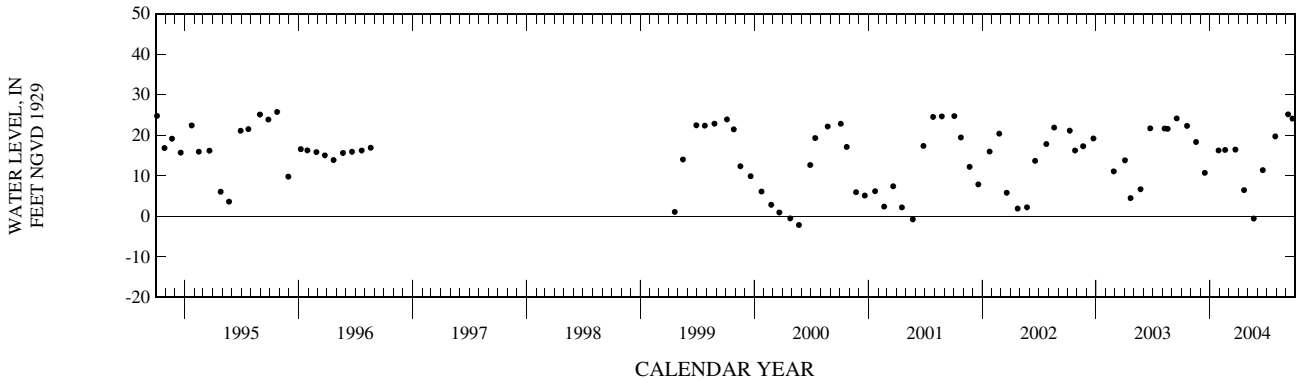
REMARKS.--Records of water levels prior to October 1976 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--December 1965 to August 1996, April 1999 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.26 ft NGVD, Aug. 30, 1978; lowest, 2.13 ft below NGVD, May 23, 2000.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
19...	1129	22.32	19...	1139	6.48
NOV			MAY		
17...	1119	18.35	20...	1217	-.53
DEC			JUN		
15...	1131	10.74	18...	1540	11.41
JAN			JUL		
28...	1132	16.26	28...	1425	19.73
FEB			SEP		
18...	1213	16.39	07...	1328	25.17
MAR			21...	1416	24.13
22...	1136	16.48			



LEE COUNTY—Continued

WELL NUMBER.--263440082022001. Local Number L 2644.

LOCATION.--Lat 26°34'43", long 82°02'15", in SW ¼ SW ¼ sec.5, T.45 S., R.23 E., Hydrologic Unit 03100103, in the median of Surfside Boulevard, at the intersection of 39th Terrace, and 5.5 mi west of the Cape Coral Post Office.

AQUIFER.--Mid-Hawthorn aquifer of the Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 180 ft, cased to 128 ft, open hole 128 to 180 ft.

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

DATUM.--Measuring point: Top of flange, 10.71 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 8.4 ft above NGVD. (Corrected).

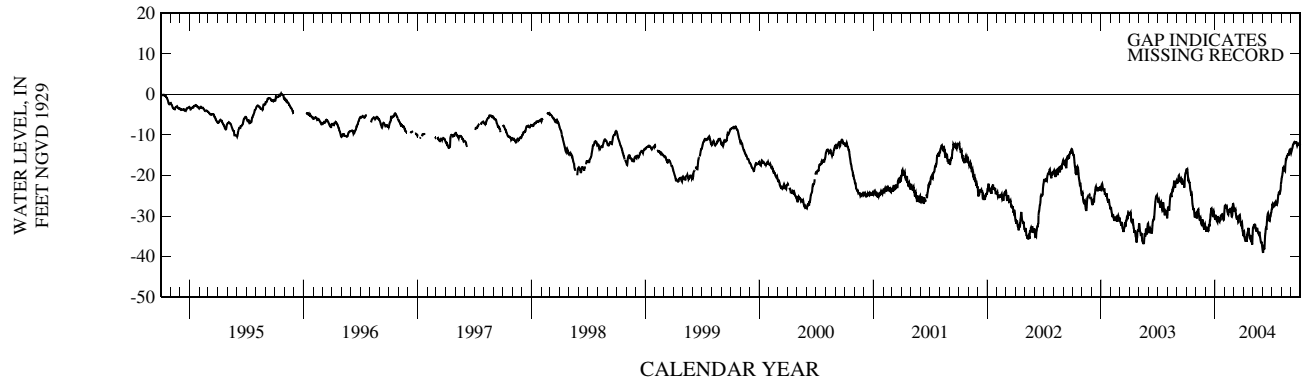
REMARKS.--Well is also used for salinity monitoring until September 2004. The well was originally open to the aquifer from 128 to 180 ft. The well's open interval has collapsed or become obstructed at 140 ft. Salinity samples are collected at a depth of 140 ft. Records of water levels prior to October 1980 are available in the files of the U.S. Geological Survey. Conductivity profiles for previous water years are available in the files of the U.S. Geological Survey.

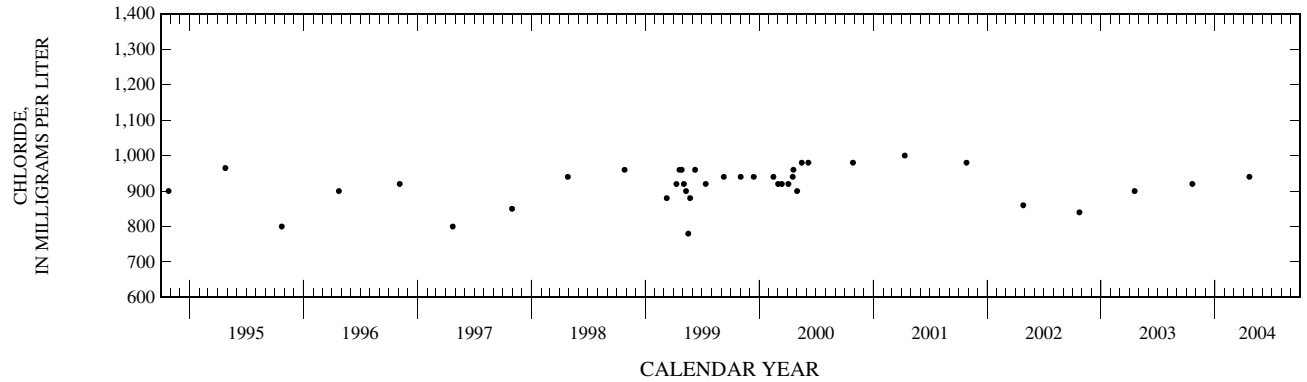
PERIOD OF RECORD.--May 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 9.28 ft NGVD, Sept. 22, 1986; lowest, 39.06 ft below NGVD, June 3, 2004.

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	-19.28	-30.12	-32.92	-30.81	-28.15	-28.50	-35.56	-32.21	-37.75	-27.44	-18.94	-13.14
10	-21.73	-29.97	-33.66	-30.04	-29.03	-30.45	-35.38	-33.18	-34.22	-27.34	-18.71	-11.82
15	-24.03	-30.33	-31.19	-31.39	-28.41	-31.54	-33.88	-32.92	-31.07	-27.34	-16.04	-11.85
20	-27.01	-32.49	-28.11	-29.81	-28.39	-29.72	-34.77	-34.46	-29.70	-25.77	-15.11	-12.70
25	-28.09	-32.85	-30.22	-30.03	-29.94	-32.39	-35.74	-35.72	-30.38	-24.53	-14.26	-12.26
EOM	-29.38	-32.51	-30.47	-28.53	-27.44	-34.73	-34.56	-37.56	-28.41	-21.66	-14.53	-12.44
MAX	-18.51	-28.29	-28.11	-28.53	-27.03	-27.95	-32.91	-31.93	-28.41	-21.66	-13.55	-11.73





LEE COUNTY—Continued

WELL NUMBER.--263440082022002. Local Number L 3207.

LOCATION.--Lat 26°34'43", long 82°02'15", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.5, T.45 S., R.23 E., Hydrologic Unit 03100103, in the median of Surfside Boulevard, at the intersection of 39th Terrace, and 5.5 mi west of the Cape Coral Post Office.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 1.25 in., depth 18 ft, cased to 8 ft, screened 8 to 18 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 8.91 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 6.6 ft above NGVD.

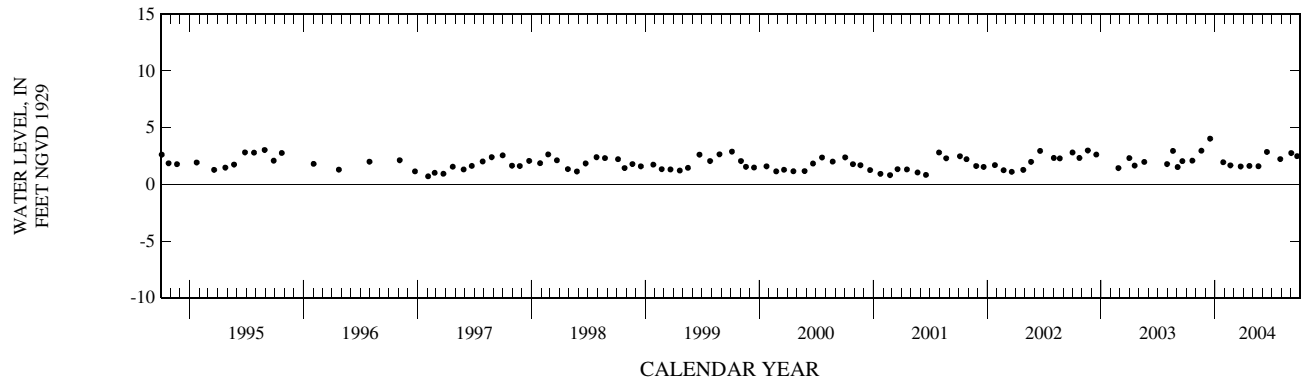
REMARKS.--Records of water levels prior to October 1980 are available in files of the U.S. Geological Survey. The well was also used for salinity monitoring from October 1986 to April 1999.

PERIOD OF RECORD.--May 1978 to September 1979 (bimonthly), May 1980 to October 1980 (semiannual), January 1981 to September 1995 (monthly), October 1995 to October 1996 (quarterly), November 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.02 ft NGVD, Dec. 16, 2003; lowest, 0.57 ft below NGVD, Nov. 28, 1978.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
20...	1313	2.08	20...	1001	1.62
NOV			MAY		
18...	1209	2.96	19...	1005	1.59
DEC			JUN		
16...	1221	4.02	15...	1007	2.85
JAN			JUL		
27...	1337	1.94	28...	1001	2.22
FEB			SEP		
19...	0906	1.67	01...	1157	2.75
MAR			20...	1417	2.48
23...	0920	1.57			



LEE COUNTY—Continued

WELL NUMBER.--263526082010201. Local Number L 2434.

LOCATION.--Lat 26°35'26", long 82°01'02", in NE $^1/_4$ NW $^1/_4$ sec.4, T.45 S., R.23 E., Hydrologic Unit 03100103, at the southwest corner of 32nd Street and SW 20th Avenue and 5 mi northwest of Cape Coral Post Office.

AQUIFER.--Lower Hawthorn aquifer of Oligocene to Miocene Age, Geologic Unit 122 LMSN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 700 ft, cased to 353 ft, open hole 353 to 700 ft.

INSTRUMENTATION.--Electronic data logger with a pressure transducer.

DATUM.--Measuring point: Top of recorder shelf, 17.33 ft above National Geodetic Vertical Datum of 1929. From May 1980 to September 15, 1993, top of shelf was 25.47 ft above NGVD. Prior to May 1980, measuring point was top of casing, 7.84 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 8.3 ft above NGVD. (Corrected). See REMARKS.

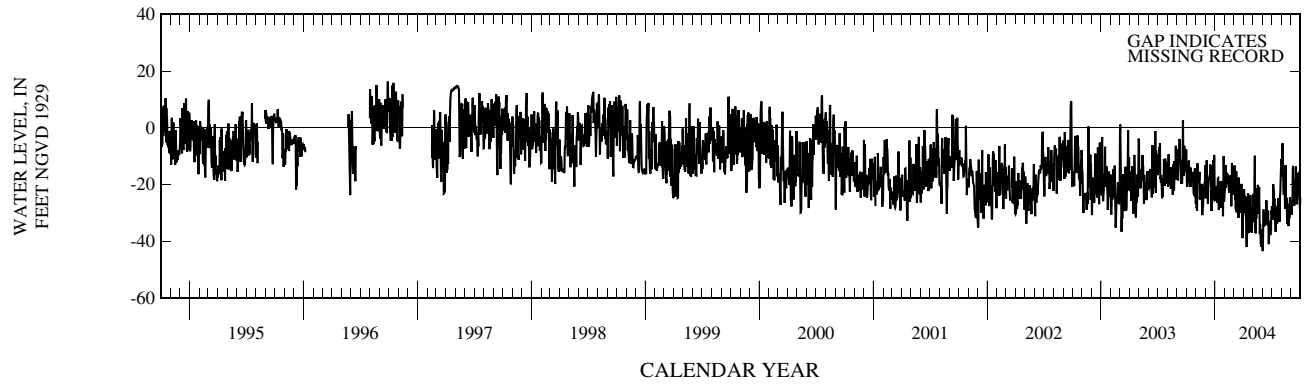
REMARKS.--Water levels affected by nearby pumping. Land-surface datum has been corrected based on field observations. Because the correction does not affect the measuring point elevation, the figures of water levels as elevation from preceding years are unaffected. Water level elevations prior to May 1980 were measured using a pressure gage. See DATUM. Records of water levels prior to October 1978 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--March 1977 to September 1980 (monthly), April 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 25.35 ft NGVD, Sept. 11, 1983; lowest, 43.44 ft below NGVD, June 2, 2004.

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	-16.41	-12.47	-11.49	-25.78	-21.15	-25.47	-26.25	-31.93	-34.80	-19.82	-16.36	-27.19
10	-16.06	-18.70	-21.27	-17.80	-16.46	-29.78	-37.95	-37.19	-29.81	-24.96	-19.52	-25.87
15	-18.22	-22.73	-17.02	-24.17	-22.79	-18.52	-22.99	-23.72	-33.29	-28.07	-27.85	-19.09
20	-16.73	-28.23	-29.30	-28.09	-22.15	-28.64	-36.33	-26.16	-35.93	-27.16	-27.01	-24.67
25	-23.50	-24.25	-19.54	-24.84	-20.34	-19.75	-34.68	-37.77	-34.04	-33.14	-27.86	-16.00
EOM	-26.83	-13.23	-25.28	-23.30	-22.13	-30.99	-33.29	-40.82	-30.19	-10.97	-27.03	-24.55
MAX	-11.53	-12.47	-9.56	-10.01	-12.34	-13.29	-21.57	-9.83	-25.53	-10.97	-5.42	-13.38



LEE COUNTY—Continued

WELL NUMBER.--263532081592201. Local Number L 581.

LOCATION.--Lat 26°35'32", long 81°59'22", in NW $^1/_4$ NW $^1/_4$ sec.2, T.45 S., R.23 E., Hydrologic Unit 03090205, 0.1 mi east of intersection of Skyline Boulevard and Gleason Parkway, in median of Gleason Parkway and 3.5 mi northwest of Cape Coral Post Office.

AQUIFER.--Mid-Hawthorn aquifer of the Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 177 ft.

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

DATUM.--Measuring point: Top of shelf, 12.98 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 9.6 ft above NGVD.

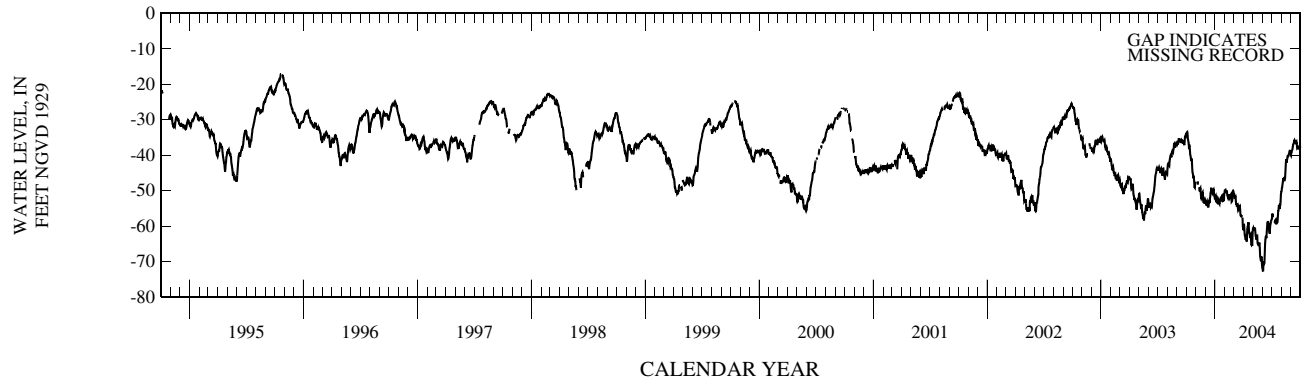
REMARKS.--Water levels affected by pumping of nearby wells. Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--May 1966 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 4.77 ft below NGVD, Sept. 10, 1960; lowest, 72.73 ft below NGVD, June 3, 2004.

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	-34.40	---	-53.28	-53.07	-50.64	-51.68	-62.58	-60.27	-69.93	-57.08	-47.60	-38.43
10	-37.42	---	-54.69	-52.08	-51.46	-53.74	-62.81	-62.71	-63.76	-58.56	-47.29	-36.03
15	-40.76	-49.35	-52.21	-53.65	-51.23	-55.57	-59.87	-62.91	-60.38	-59.50	-42.11	-36.14
20	-44.68	-51.83	-49.17	-51.85	-51.08	-54.27	-61.94	-65.59	-59.40	-57.05	-40.51	-38.05
25	-46.17	-52.97	-50.60	-52.17	-52.56	-57.27	-63.84	-69.00	-60.54	-55.09	-39.33	-37.72
EOM	-47.44	-52.68	-52.21	-50.70	-50.24	-60.71	-61.99	-71.52	-58.15	-50.38	-40.06	-37.82
MAX	-33.63	---	-49.17	-50.70	-49.74	---	-58.88	-60.27	-58.15	---	-38.51	-35.84



LEE COUNTY—Continued

WELL NUMBER.--263532081592202. Local Number L 1136.

LOCATION.--Lat 26°35'32", long 81°59'22", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.2, T.45 S., R.23 E., Hydrologic Unit 03090205, 0.1 mi east of intersection of Skyline Boulevard and Gleason Parkway, in median of Gleason Parkway and 3.5 mi northwest of Cape Coral Post Office.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 20 ft, cased to 15 ft, screened 15 to 20 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of 4 in. casing, 12.36 ft above National Geodetic Vertical Datum of 1929. From April 1996 to September 30, 1997, measuring point was incorrectly considered to be top of 4 in. cap, 12.71 ft above NGVD. Prior to April 1996, measuring point was top of 4 in. cap, 12.71 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 9.7 ft above NGVD.

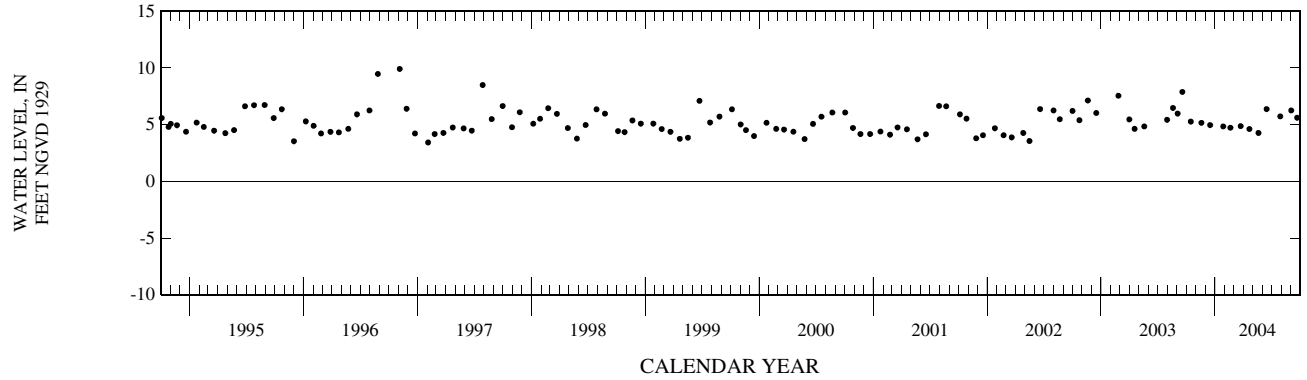
REMARKS.--Well is also used for salinity monitoring. Records of water levels prior to October 1975 are available in files of the U.S. Geological Survey. The figures of water levels, as elevation in feet NGVD, for the period April 1996 to September 30, 1997 are in error. A -0.35 ft correction has been applied to correct the water-level data. Corrected records are in files of the U.S. Geological Survey. See DATUM.

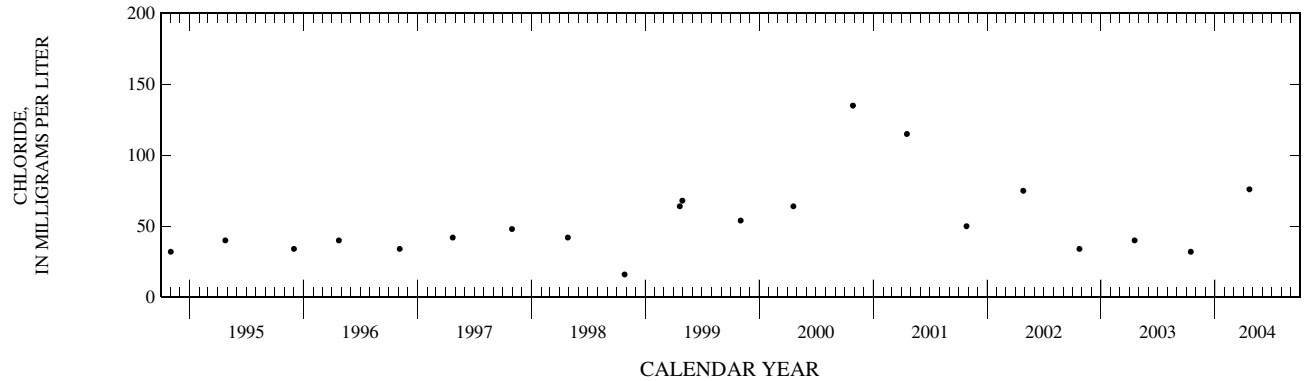
PERIOD OF RECORD.--June 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.90 ft NGVD, Nov. 4, 1996; lowest, 2.01 ft NGVD, Apr. 29, 1974.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
15...	1606	5.26	494	32.0
NOV				
18...	1417	5.15	--	--
DEC				
16...	1135	4.95	--	--
JAN				
27...	1221	4.83	--	--
FEB				
19...	0947	4.72	--	--
MAR				
23...	0843	4.86	--	--
APR				
20...	0751	4.61	665	76.0
MAY				
19...	0928	4.26	--	--
JUN				
14...	0829	6.36	--	--
JUL				
28...	0857	5.72	--	--
SEP				
01...	1050	6.24	--	--
20...	1401	5.60	--	--





LEE COUNTY—Continued

WELL NUMBER.--263630081375301. Local Number L 1418.

LOCATION.--Lat 26°36'31", long 81°37'51", in NE ¼ SE ¼ NE ¼ sec.32, T.44 S., R.27 E., Hydrologic Unit 03090205, 20 ft north of Davis Road, 0.1 mi west of Texas Road, 0.5 mi north of intersection of Leeland Heights Boulevard and Texas Road and 1.0 mi northeast of Lehigh Acres Post Office.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 62 ft, cased to 55 ft, open hole 55 to 62 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of flange, 25.28 ft above National Geodetic Vertical Datum of 1929. From March 10, 1989 to September 30, 2001, measuring point was top of shelf, 25.31 ft above NGVD. Prior to March 1989, measuring point was top of flange, 25.23 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 23.7 ft above NGVD.

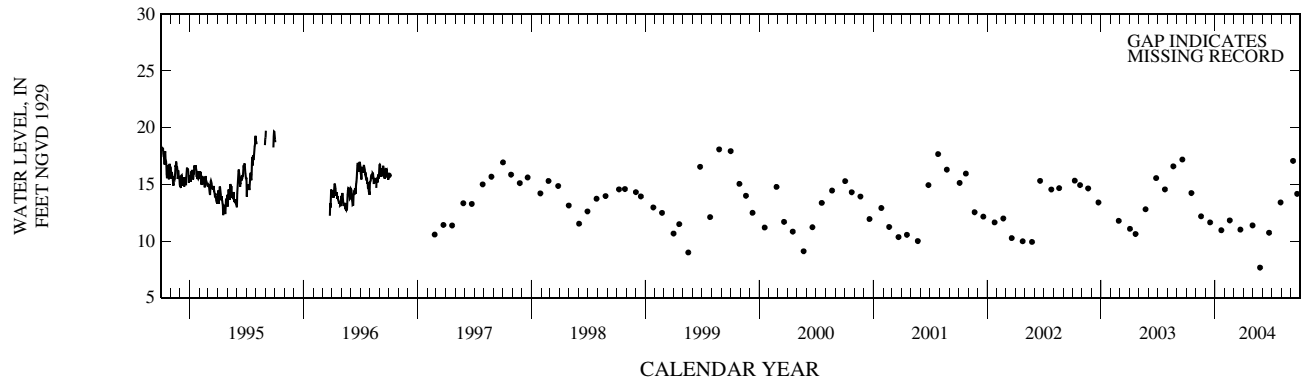
REMARKS.--Water levels affected by pumping at nearby wells. Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--January 1971 to October 1988, March 1989 to September 1996 (daily), February 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 23.05 ft NGVD, June 20, 1971; lowest, 7.66 ft NGVD, May 24, 2004.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
17...	1520	14.23	30...	1631	11.38
NOV			MAY		
17...	1414	12.18	24...	0941	7.66
DEC			JUN		
16...	1426	11.64	22...	1248	10.73
JAN			JUL		
21...	1347	10.95	29...	1412	13.40
FEB			SEP		
17...	1354	11.82	07...	1152	17.06
MAR			20...	1304	14.16
22...	1413	11.01			



LEE COUNTY—Continued

WELL NUMBER.--263712081461201. Local Number L 728.

LOCATION.--Lat 26°37'13", long 81°46'10", in NE $^1/_4$ SW $^1/_4$ sec.25, T.44 S., R.25 E., Hydrologic Unit 03090204, 40 ft east of State Road 82 and 0.2 mi north of County Road 884, 6.6 mi southeast of Fort Myers Post Office.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 19 ft, cased to 18 ft, open hole 18 to 19 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of shelf, 23.34 ft above National Geodetic Vertical Datum of 1929. Prior to August 2002, measuring point was top of 4 in. casing, 22.65 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 21.0 ft above NGVD.

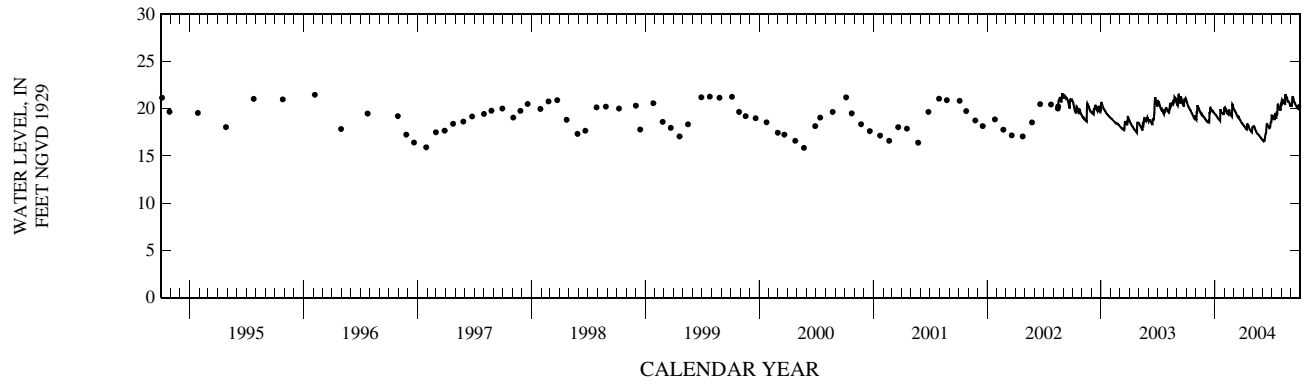
REMARKS.--Records of water levels prior to October 1975 are available in files of the U.S. Geological Survey. In the 2002 water year the instrumentation changed to an electronic data logger from a tape-down well. The height of the measuring point was changed as part of the station construction. See DATUM.

PERIOD OF RECORD.--July 1968 to February 1972 (bimonthly), March 1972 to September 1994 (monthly), October 1994 to July 1996 (quarterly), October 1996 to July 2002 (monthly), August 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 21.62 ft NGVD, Aug. 29, 2002; lowest water level measured, 15.85 ft NGVD, May 23, 2000.

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	20.45	20.34	18.67	19.24	19.74	19.71	18.06	18.12	16.63	19.05	20.83	21.23
10	20.04	19.99	18.71	19.01	19.52	19.39	17.84	17.71	17.23	18.79	20.70	20.76
15	19.76	19.60	19.49	18.82	19.90	19.05	18.32	17.37	18.38	18.94	21.05	20.42
20	19.39	19.42	19.84	19.68	19.36	18.86	17.88	17.20	18.13	20.52	20.88	20.13
25	19.06	19.11	19.71	19.47	20.47	18.55	17.61	16.99	18.02	19.99	20.73	19.93
EOM	18.95	18.90	19.44	20.10	20.08	18.29	18.05	16.72	19.20	20.38	20.58	20.42
MAX	20.87	20.34	20.11	20.10	20.47	19.99	18.36	18.14	19.20	20.52	21.53	21.24



LEE COUNTY—Continued

WELL NUMBER.--263718081485001. Local Number L 1973.

LOCATION.--Lat 26°37'19", long 81°48'50", in NW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.28, T.44 S., R.25 E., Hydrologic Unit 02090205, at Eastwood Golf Course, 176 ft south of Vince Smith Drive, 0.15 mi west of Ortiz Avenue, 3.9 mi southeast of Fort Myers Post Office.

AQUIFER.--Mid-Hawthorn aquifer of the Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 225 ft, cased to 172 ft, open hole 172 to 225 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 22.51 ft above National Geodetic Vertical Datum of 1929. Prior to April 1981, top of casing was 22.54 ft above NGVD. From April 1981 to September 1997, top of casing was considered to be 22.54 ft above NGVD. See DATUM.

LAND-SURFACE DATUM.--Land surface is approximately 19.8 ft above NGVD.

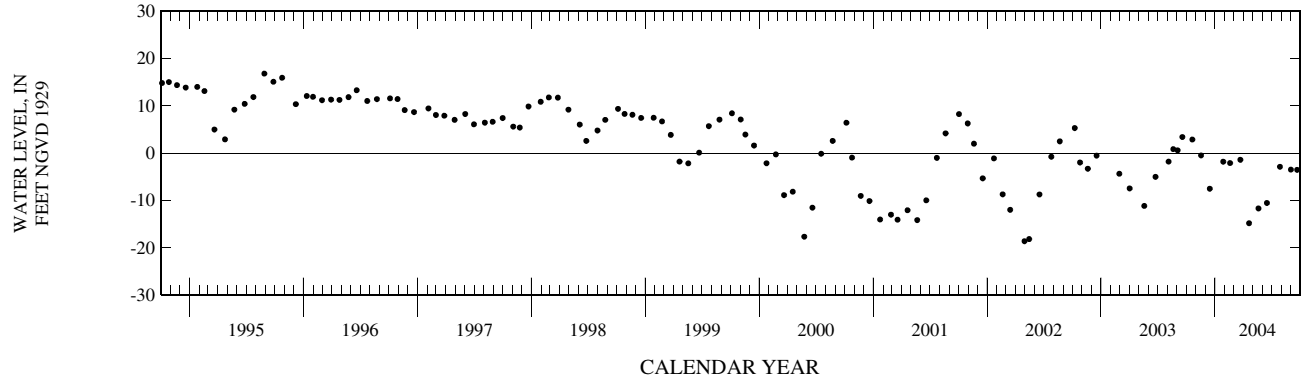
REMARKS.--Conductivity and chloride profiles for previous years are available in files of the U.S. Geological Survey. Records of water levels prior to October 1975 are available in files of the U.S. Geological Survey. A correction of -0.03 ft is required to correct water-level data from April 1981 to September 1997. See DATUM.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.50 ft NGVD, Sept. 17, 1974; lowest, 18.60 ft below NGVD, Apr. 30, 2002.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
20...	1138	2.90	19...	0854	-14.80
NOV			MAY		
17...	0939	-.46	19...	1529	-11.67
DEC			JUN		
15...	1003	-7.50	15...	1250	-10.52
JAN			JUL		
27...	1051	-1.79	27...	0745	-2.86
FEB			AUG		
18...	0900	-2.07	31...	1401	-3.46
MAR			SEP		
22...	0913	-1.38	20...	1020	-3.51



LEE COUNTY—Continued

WELL NUMBER.--263718081485002. Local Number L 1974.

LOCATION.--Lat 26°37'19", long 81°48'50", in NW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.28, T.44 S., R.25 E., Hydrologic Unit 03090205, at Eastwood Golf Course, 193 ft south of Vince Smith Drive and 0.15 mi west of Ortiz Boulevard, 3.9 mi southeast of Fort Myers Post Office.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 135 ft, cased to 85 ft, screened 85 to 135 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 22.64 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 19.9 ft above NGVD.

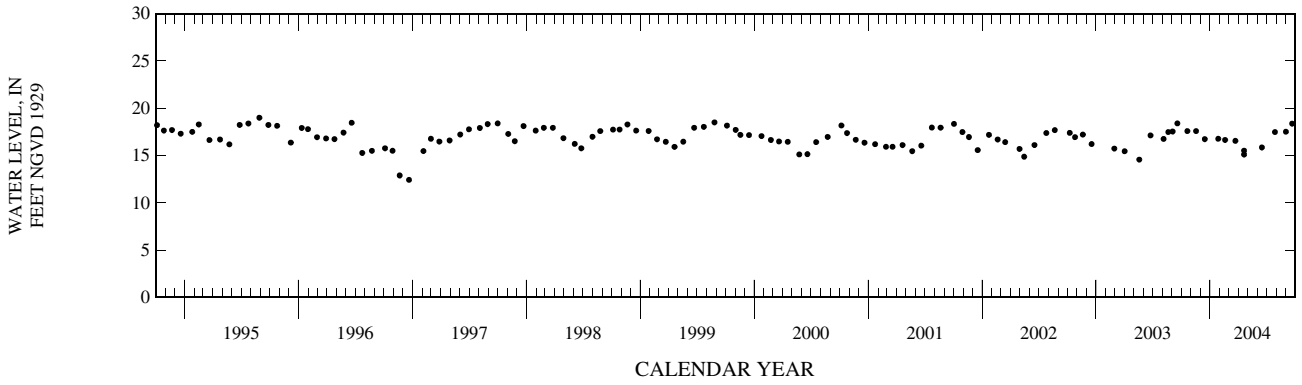
REMARKS.--Conductivity and chloride profiles for previous years are available in the files of the U.S. Geological Survey. Records of water levels prior to October 1975 are available in files of the U.S. Geological Survey.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.13 ft NGVD, Sept. 26, 1975; lowest, 12.43 ft NGVD, Dec. 20, 1996.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
20...	1132	17.59	19...	0858	15.52
NOV			19...	1527	15.11
17...	0944	17.59	JUN		
DEC			15...	1255	15.86
15...	1008	16.74	JUL		
JAN			27...	0750	17.49
27...	1048	16.78	AUG		
FEB			31...	1407	17.52
18...	0902	16.65	SEP		
MAR			20...	1026	18.38
22...	0917	16.56			



LEE COUNTY—Continued

WELL NUMBER.--263718081485003. Local Number L 2292.

LOCATION.--Lat 26°37'19", long 81°48'50", in SW $^1/_4$ NE $^1/_4$ sec.28, T.44 S., R.25 E., Hydrologic Unit 03090205, at Eastwood Golf Course, 159 ft south of Vince Smith Drive, 0.15 mi west of Ortiz Avenue, 3.9 mi southeast of Fort Myers Post Office.

AQUIFER.--Lower Hawthorn aquifer of Oligocene to Miocene Age, Geologic Unit 122 LMSN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 616 ft, cased to 302 ft, open hole 302 to 616 ft.

INSTRUMENTATION.--Monthly measurement with pressure gage.

DATUM.--Measuring point: Top of 8 in. casing, 22.30 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 20.1 ft above NGVD.

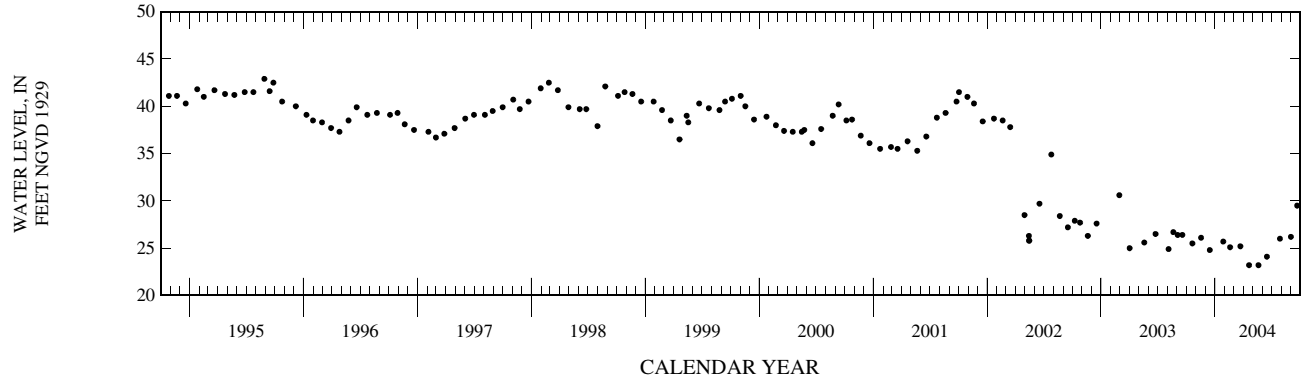
REMARKS.--Records of water levels prior to October 1982 are available in files of the U.S. Geological Survey. The approximately 10 ft decrease in water levels that occurred in May 2002 is believed to have resulted from shift of water usage in this area from the Caloosahatchee River to the lower Hawthorn aquifer.

PERIOD OF RECORD.--August 1976 to June 1978 (intermittent), October 1981 to September 1993 (monthly), October 1993 to September 1994 (intermittent), October 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 42.9 ft NGVD, Sept. 13, 1993 and Aug. 28, 1995; lowest, 23.2 ft NGVD, Apr. 19, 2004 and May 19, 2004.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
20...	1146	25.5	19...	0903	23.2
NOV			MAY		
17...	1148	26.1	19...	1525	23.2
DEC			JUN		
15...	1000	24.8	15...	1301	24.1
JAN			JUL		
27...	1044	25.7	27...	0756	26.0
FEB			AUG		
18...	0850	25.1	31...	1410	26.2
MAR			SEP		
22...	0920	25.2	20...	1029	29.5



LEE COUNTY—Continued

WELL NUMBER.--263743082041201. Local Number L 2645.

LOCATION.--Lat 26°37'42", long 82°04'13", in NW $^1/_4$ SW $^1/_4$ sec.24, T.44 S., R.22 E., Hydrologic Unit 03100103, across the street from the Matlacha Fire House at Matlacha Park and 0.1 mi south of Matlacha Post Office.

AQUIFER.--Mid-Hawthorn aquifer of the Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 210 ft, cased to 160 ft, open hole 160 to 210 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape or pressure gage.

DATUM.--Measuring point: For pressure gage, top of 8 in. casing, 8.24 ft above National Geodetic Vertical Datum of 1929; for chalked tape, top of cap, 8.64 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 5.5 ft above NGVD.

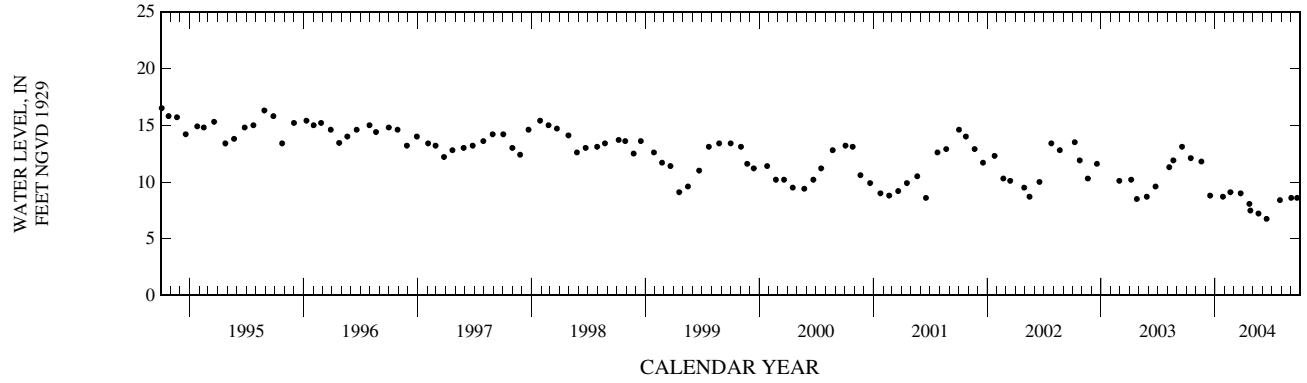
REMARKS.--Well is also used for salinity monitoring until September 2004. This well is open to the aquifer from 160 to 210 ft. The exact depth from which the chloride-containing water is emanating cannot be further delineated. Records of water levels prior to October 1978 are available in files of the U.S. Geological Survey.

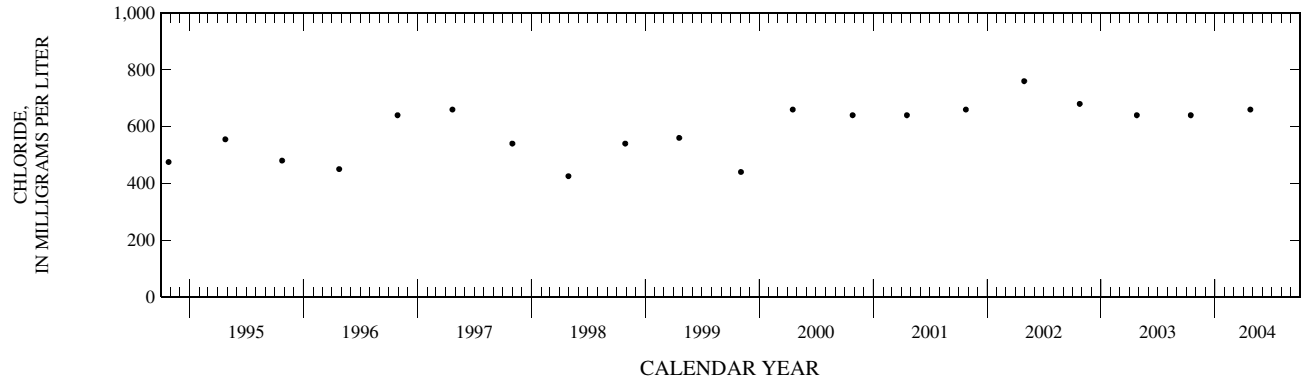
PERIOD OF RECORD.--May 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.4 ft NGVD, Nov. 26, 1986; lowest, 6.75 ft NGVD, June 14, 2004.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
15...	0902	12.1	2,510	640
NOV				
18...	1044	11.8	--	--
DEC				
16...	1405	8.8	--	--
JAN				
26...	1229	8.7	--	--
FEB				
19...	1210	9.1	--	--
MAR				
23...	1311	9.0	--	--
APR				
20...	1351	8.07	--	--
23...	0907	7.48	2,510	660
MAY				
19...	1139	7.22	--	--
JUN				
14...	1147	6.75	--	--
JUL				
27...	1305	8.4	--	--
SEP				
01...	1339	8.6	--	--
20...	1529	8.6	--	--





LEE COUNTY—Continued

WELL NUMBER.--263807081430301. Local Number L 1968.

LOCATION.--Lat 26°37'59", long 81°43'04", in SW $^1/_4$ SW $^1/_4$ NE $^1/_4$ sec.21, T.44 S., R.26 E., Hydrologic Unit 03090205, at northwest corner of Centennial Boulevard and Gunnery Road, and 4.8 mi northwest of Lehigh Acres Post Office.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 165 ft, cased to 70 ft, open hole 70 to 165 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 25.93 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 23.1 ft above NGVD.

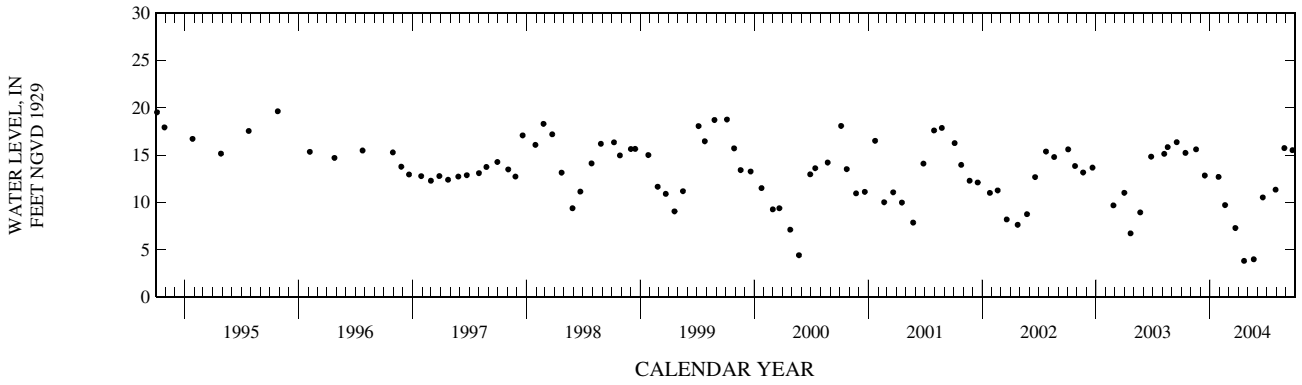
REMARKS.--Records of water levels prior to October 1975 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--December 1974 to September 1994 (monthly), October 1994 to June 1996 (quarterly), October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.01 ft NGVD, Sept. 27, 1979; lowest, 3.83 ft NGVD, Apr. 19, 2004.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
14...	1300	15.25	19...	1003	3.83
NOV			MAY		
17...	1027	15.62	20...	1341	4.00
DEC			JUN		
15...	1044	12.86	18...	1425	10.54
JAN			JUL		
28...	1239	12.71	29...	0834	11.36
FEB			AUG		
18...	1125	9.73	26...	1312	15.76
MAR			SEP		
22...	1047	7.31	21...	1512	15.54



LEE COUNTY—Continued

WELL NUMBER.--263813081552801. Local Number L 2640.

LOCATION.--Lat 26°38'08", long 81°55'27", in NE $^1/_4$ NE $^1/_4$ sec.20, T.44 S., R.24 E., Hydrologic Unit 03090205, in median at intersection of SE 24th Avenue and Birkdale Avenue, 1 mi south of Hancock Bridge Parkway and 5.2 mi north of Cape Coral Post Office.

AQUIFER.--Mid-Hawthorn aquifer of the Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 180 ft, cased to 128 ft, open hole 128 to 180 ft.

INSTRUMENTATION.--Electronic data logger with pressure transducer.

DATUM.--Measuring point: Top of casing, 10.14 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 7.5 ft above NGVD.

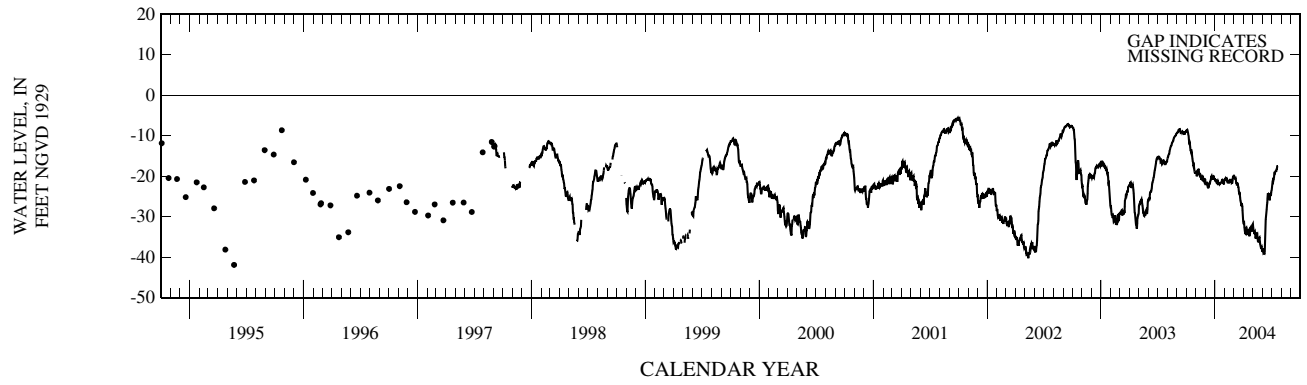
REMARKS.--Well is also used for salinity monitoring. The well was originally open to the aquifer from 128 to 180 ft. The open interval has collapsed or become obstructed at a depth of 168 ft. Chloride samples are being collected from a depth of 140 ft and 165 ft. Records of water levels prior to October 1978 are available in files of the U.S. Geological Survey. Documentation of the highest water level measured on September 5, 1978, is poor. However, the water level is consistent when compared to L-581. Conductivity and chloride profiles for previous years are available in the files of the U. S. Geological Survey.

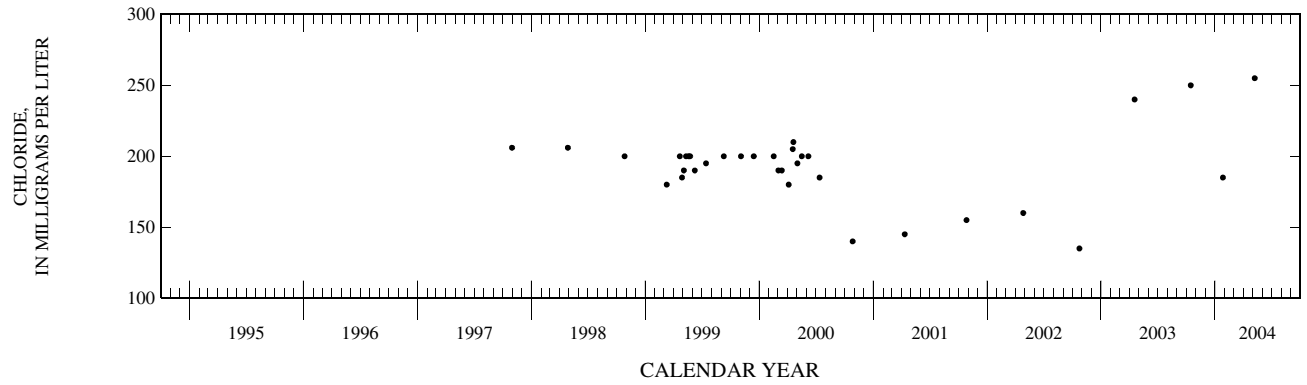
PERIOD OF RECORD.--May 1978 to September 1997 (monthly), September 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.94 ft below NGVD, Sept. 5, 1978; lowest, 42.89 ft below NGVD, June 10, 1985.

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	-8.81	-19.61	-21.75	-21.55	-20.82	-20.48	-33.38	-33.88	-38.71	-21.22	---	---
10	-11.71	-19.05	-22.81	-21.15	-21.18	-21.78	-32.67	-35.37	-33.10	-19.17	---	---
15	-13.61	-19.65	-21.82	-22.02	-21.19	-22.64	-33.89	-34.19	-27.13	-18.87	---	---
20	-15.73	-20.84	-20.05	-21.53	-20.99	-24.34	-34.82	-35.93	-24.52	---	---	---
25	-17.40	-21.03	-20.82	-21.15	-21.60	-27.41	-33.01	-37.05	-24.56	---	---	---
EOM	-19.02	-20.80	-20.74	-20.91	-19.96	-31.07	-31.98	-38.37	-23.59	---	---	---
MAX	-8.54	-18.31	-19.98	-20.90	-19.96	-20.01	-31.60	-31.84	-23.59	---	---	---





LEE COUNTY—Continued

WELL NUMBER.--263819081585801. Local Number L 2701.

LOCATION.--Lat 26°38'18", long 81°58'58", in SW ¼ SW ¼ SE ¼ sec.14, T.44 S., R.23 E., Hydrologic Unit 03090205, in the median of Nicholas Parkway West, at the intersection of SW 7th Terrace, 5.3 mi northwest of the Cape Coral Post Office.

AQUIFER.--Mid-Hawthorn aquifer of the Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 206 ft, cased to 175 ft, open hole 175 to 206 ft.

INSTRUMENTATION.--Electronic data logger with pressure transducer.

DATUM.--Measuring point: Top of casing, 15.65 ft above National Geodetic Vertical Datum of 1929. Prior to May 12, 1999, measuring point was top of recorder shelf, 15.72 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 13.0 ft above NGVD.

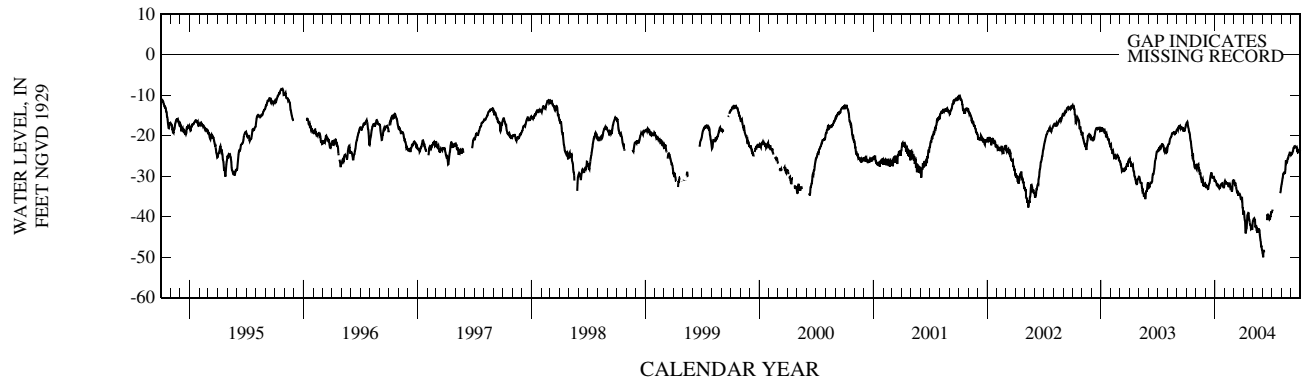
REMARKS.--Well is also used for salinity monitoring. Conductivity and chloride for previous years are available in the files of U.S. Geological Survey. Revised measuring point May 1999, for installation of new recorder shelf. Records of water levels prior to October 1980 are available in files of the U.S. Geological Survey. See DATUM.

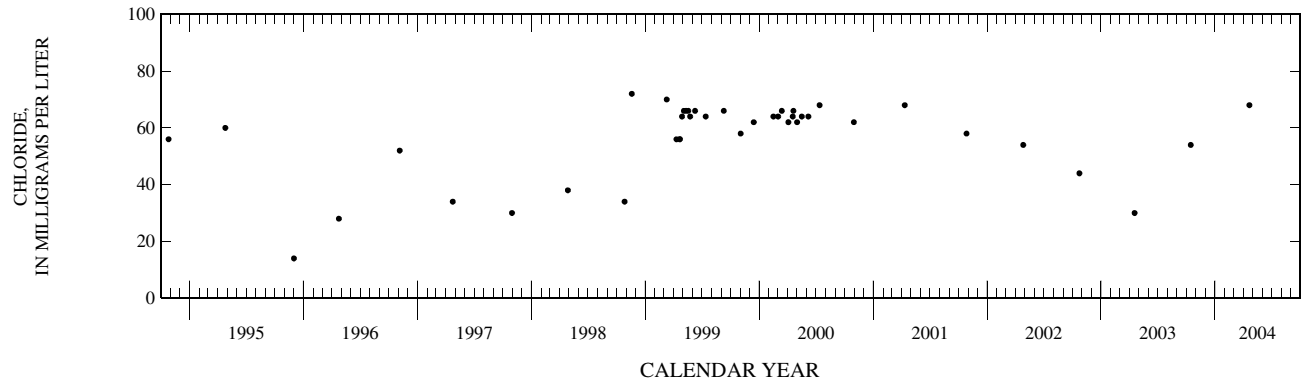
PERIOD OF RECORD.--October 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 2.81 ft below NGVD, Sept. 11, 1986; lowest, 49.98 ft below NGVD, June 3, 2004.

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	-16.99	-27.71	-32.67	-31.64	-31.82	-31.77	-40.86	-40.38	-48.41	---	-30.21	-24.23
10	-19.12	-28.11	-33.09	-32.05	-31.81	-33.22	-42.97	-42.53	---	---	-29.32	-22.93
15	-21.33	-29.32	-31.19	-32.98	-31.92	-34.80	-39.29	-43.33	-40.86	---	-26.13	-22.86
20	-25.05	-31.65	-29.25	-32.00	-32.68	-34.42	-40.78	-43.46	-39.62	---	-25.75	-23.85
25	-26.31	-32.21	-30.34	-32.22	-33.17	-35.75	-43.06	-45.78	-40.52	---	-24.82	-23.88
EOM	-27.30	-32.18	-31.16	-31.79	-31.06	-39.17	-41.62	-48.21	-38.89	-32.56	-24.78	-23.75
MAX	-16.62	-27.03	-29.25	-31.11	-31.02	-31.21	-38.91	-40.38	---	---	-24.20	-22.61





LEE COUNTY—Continued

WELL NUMBER.--263834082005301. Local Number L 781.

LOCATION.--Lat 26°38'36", long 82°00'51", in SW ¼ NW ¼ SE ¼ sec.16, T.44 S., R.23 E., Hydrologic Unit 03100103, 0.4 mi north of State Road 78 and 0.45 mi west of Chiquita Boulevard, and 3.5 mi northeast of Matlacha Post Office.

AQUIFER.--Mid-Hawthorn aquifer of the Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 290 ft, cased to 82 ft, open hole 82 to 290 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of flange, 12.28 ft above National Geodetic Vertical Datum of 1929. Prior to October 1996, the measuring point was top of shelf, 12.31 ft above NGVD. From October 1997 to September 1998, the measuring point was incorrectly considered to be top of shelf, 12.31 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 10.0 ft above NGVD.

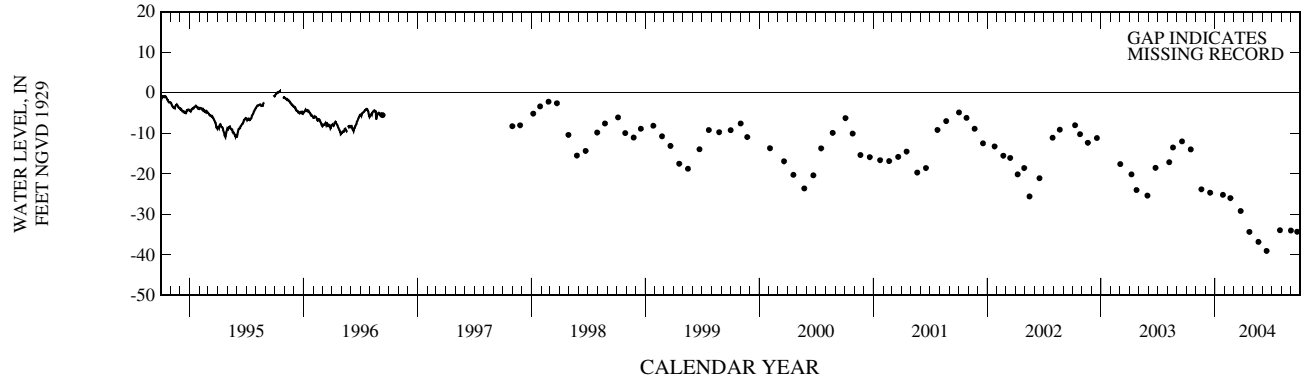
REMARKS.--Conductivity and chloride profiles for the previous years are available in the files of the U.S. Geological Survey. Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey. The figures of water level as elevation, in feet NGVD, from October 1997 to September 1999 are in error. A correction of -0.03 ft is required to correct water level data for the period October 1997 to September 1999. See DATUM.

PERIOD OF RECORD.--October 1971 to September 1996 (daily), October 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 4.24 ft NGVD, Oct. 14, 1977; lowest, 51.01 ft below NGVD, Feb. 25, 1991.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
15...	1045	-13.97	20...	1339	-34.32
NOV			MAY		
18...	1033	-23.82	19...	1122	-36.79
DEC			JUN		
16...	1340	-24.65	14...	1136	-39.01
JAN			JUL		
26...	1409	-25.17	27...	1250	-33.91
FEB			AUG		
19...	1106	-25.98	31...	1701	-33.99
MAR			SEP		
23...	1233	-29.16	20...	1302	-34.28



LEE COUNTY—Continued

WELL NUMBER.--263850081365401. Local Number L 727.

LOCATION.--Lat 26°39'49", long 81°35'53", in NW ¼ NW ¼ SW ¼ sec.11, T.44 S., R.27 E., Hydrologic Unit 03090205, 20 ft east of Joel Boulevard, 3.1 mi south of intersection of State Road 80 and Joel Boulevard and 5.1 mi northeast of Lehigh Acres Post Office.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 71 ft, cased to 67 ft, open hole 67 to 71 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of recorder shelf, 24.08 ft above National Geodetic Vertical Datum of 1929. Prior to January 1981, top of shelf was 24.14 ft above NGVD. From January 1981 to September 1989, top of shelf was erroneously reported as 24.14 ft above NGVD, but a measurement point of 24.08 ft above NGVD was used. (Corrected). See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 22.3 ft above NGVD.

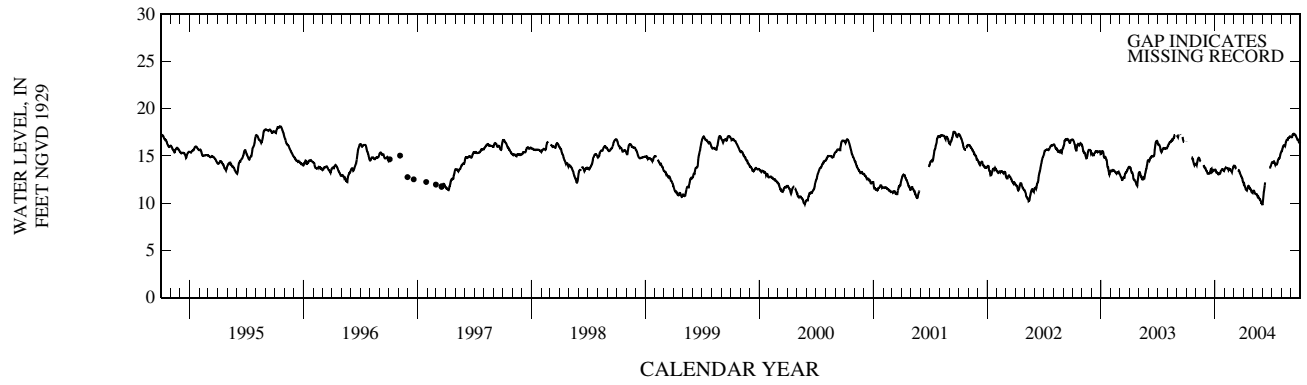
REMARKS.--Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey. Station reconstructed January 1981. See DATUM.

PERIOD OF RECORD.--July 1968 to October 1996 (daily), November 1996 to February 1997 (monthly), March 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 18.53 ft NGVD, Mar. 30, 1970; lowest, 9.89 ft NGVD, May 26, 2000 and May 31, 2004.

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	---	14.38	13.42	13.26	13.72	13.89	11.82	11.30	11.15	14.30	15.90	17.19
10	---	14.79	13.15	13.14	13.66	---	11.40	10.96	---	14.28	16.09	17.35
15	---	14.43	13.15	13.12	13.63	13.46	11.71	10.81	---	14.11	16.46	17.17
20	14.65	---	13.65	13.45	13.48	13.19	11.69	10.58	---	14.50	16.74	16.77
25	14.15	13.97	13.43	13.60	13.47	12.84	11.45	10.35	13.66	14.75	16.92	16.55
EOM	14.17	13.74	13.48	13.49	13.86	12.24	11.09	9.89	14.19	15.41	16.99	16.42
MAX	---	---	13.72	13.60	13.86	---	12.20	11.32	---	15.41	17.05	17.35



LEE COUNTY—Continued

WELL NUMBER.--263907081592701. Local Number L 2528.

LOCATION.--Lat 26°39'09", long 81°59'27", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.11, T.44 S., R.23 E., Hydrologic Unit 03100103, 200 ft northeast of intersection of Embers Parkway and Nelson Road NW and 6.8 mi northwest of Cape Coral Post Office.

AQUIFER.--Lower Hawthorn aquifer of Oligocene to Miocene Age, Geologic Unit 122 LMSN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 625 ft, cased to 420 ft, open hole 420 to 625 ft.

INSTRUMENTATION.--Monthly measurement with pressure gage.

DATUM.--Measuring point: Top of 3/4 in. reducer, 12.22 ft above National Geodetic Vertical Datum of 1929. From October 1995 to September 2000, measuring point was incorrectly considered to be 12.27 ft above NGVD. From October 25, 1993 to September 1995, measuring point was top of north side of meter box, 12.65 ft above NGVD. From October 1989 to October 25, 1993, the top of meter box was 12.74 ft above NGVD. From October 1987 to September 1989, measuring point was top of casing, 14.81 ft above NGVD. From January 1978 to September 1987, top of casing was 14.66 ft above NGVD. The figures of water level as elevation, in ft NGVD, from October 1995 to September 2000 are in error. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 12.2 ft above NGVD.

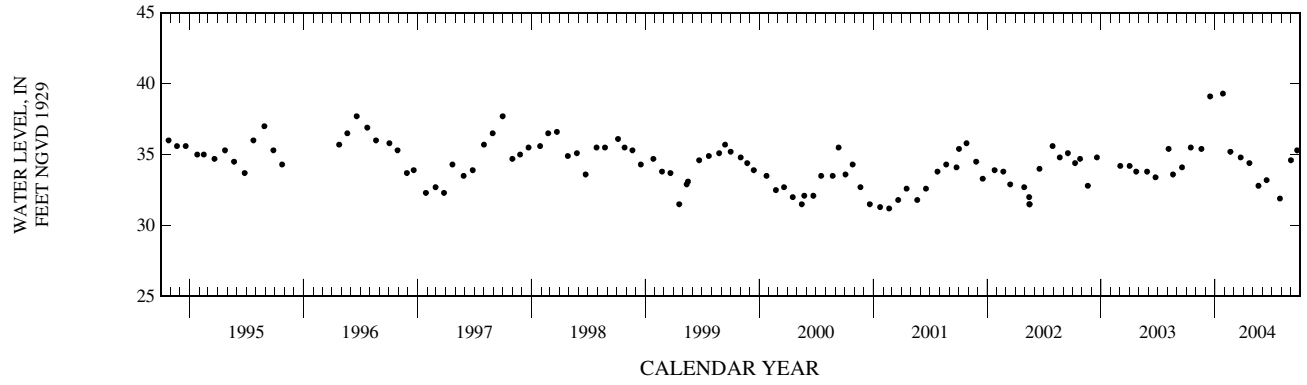
REMARKS.--Records of water levels prior to October 1980 are available in the files of the U.S. Geological Survey. The figures of water level as elevation, in ft NGVD, from October 1995 to September 2000 are in error. A correction of -0.05 ft is required to correct water-level data. Station damaged and reconstructed in 1988, October 1990, October 25, 1993. See DATUM.

PERIOD OF RECORD.--January 1978 to September 1989 (monthly), September 1990 to September 1993 (monthly), October 1993 to September 1994 (intermittent), October 1994 to October 1995 (monthly), April 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39.3 ft NGVD, Jan. 26, 2004; lowest, 31.2 ft NGVD, Feb. 20, 2001.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
15...	1058	35.5	20...	1331	34.4
NOV			MAY		
18...	0933	35.4	19...	1113	32.8
DEC			JUN		
16...	0955	39.1	14...	1125	33.2
JAN			JUL		
26...	1127	39.3	27...	1028	31.9
FEB			AUG		
19...	1339	35.2	31...	1644	34.6
MAR			SEP		
23...	1039	34.8	20...	1310	35.3



LEE COUNTY—Continued

WELL NUMBER.--263950081355401. Local Number L 2187.

LOCATION.--Lat 26°39'49", long 81°35'53", in NW ¼ NW ¼ SW ¼ sec.11, T.44 S., R.27 E., Hydrologic Unit 03090205, 20 ft east of Joel Boulevard, 3.1 mi south of intersection of State Road 80 and Joel Boulevard and 5.1 mi northeast of Lehigh Acres Post Office.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 154 ft, cased to 136 ft, open hole 136 to 154 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 24.50 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 21.9 ft above NGVD.

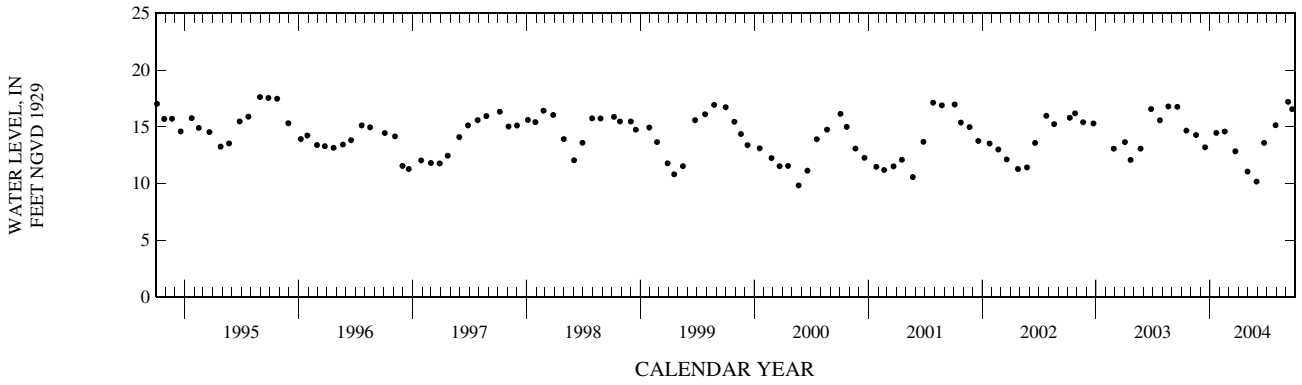
REMARKS.--Records of water levels prior to October 1982 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--August 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.88 ft NGVD, Sept. 27, 1979; lowest, 9.84 ft NGVD, May 22, 2000.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
17...	1550	14.67	30...	1648	11.06
NOV			MAY		
17...	1438	14.28	29...	0918	10.18
DEC			JUN		
16...	1500	13.20	22...	1302	13.59
JAN			JUL		
21...	1320	14.47	29...	1528	15.15
FEB			SEP		
17...	1424	14.59	07...	1210	17.21
MAR			20...	1314	16.56
22...	1454	12.85			



LEE COUNTY—Continued

WELL NUMBER.--263950081355402. Local Number L 1137.

LOCATION.--Lat 26°39'49", long 81°35'53", in NW ¼ NW ¼ SW ¼ sec.11, T.44 S., R.27 E., Hydrologic Unit 03090205, 20 ft east of Joel Boulevard, 3.1 mi south of intersection of State Road 80 and Joel Boulevard and 5.1 mi northeast of Lehigh Acres Post Office.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 20 ft, cased to 15 ft, slotted 15 to 20 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of flange, 24.14 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 22.1 ft above NGVD.

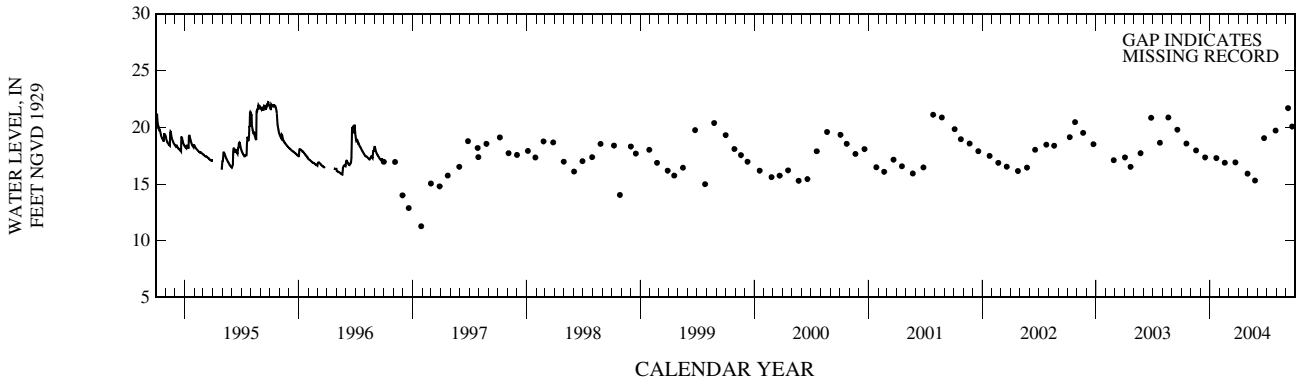
REMARKS.--Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--June 1970 to September 1996 (daily), October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 22.20 ft NGVD, Sept. 25, 1995; lowest water level measured, 11.27 ft NGVD, Jan. 28, 1997.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
17...	1548	18.56	30...	1648	15.91
NOV			MAY		
17...	1437	17.95	24...	0913	15.30
DEC			JUN		
16...	1457	17.34	22...	1306	19.04
JAN			JUL		
21...	1318	17.28	29...	1530	19.70
FEB			SEP		
17...	1418	16.87	07...	1212	21.68
MAR			20...	1314	20.06
22...	1454	16.90			



LEE COUNTY—Continued

WELL NUMBER.--263955082083101. Local Number L 2527.

LOCATION.--Lat 26°39'53", long 82°08'31", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.6, T.44 S., R.22 E., Hydrologic Unit 03100103, 19 ft west of H. Stringfellow Road (County Road 767), 3.95 mi north of Pine Island Road and 3.0 mi southeast of Bokeelia Post Office.

AQUIFER.--Lower Hawthorn aquifer of Oligocene to Miocene Age, Geologic Unit 122 LMSN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 605 ft, cased to 360 ft, open hole 360 to 605 ft.

INSTRUMENTATION.--Monthly measurement with pressure gage.

DATUM.--Measuring point: Top of 8 in. casing, 10.74 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 8.2 ft above NGVD.

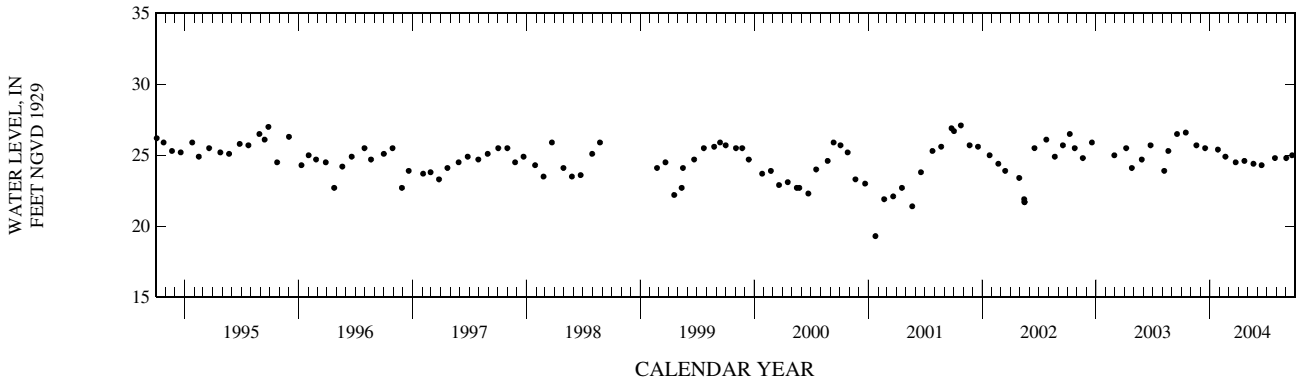
REMARKS.--Records of water levels prior to October 1978 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--January 1978 to September 1993 (monthly), October 1993 to September 1994 (intermittent), October 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.2 ft NGVD, Sept. 30, 1981; lowest, 19.3 ft NGVD, Jan. 23, 2001.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
15...	1009	26.6	20...	1449	24.6
NOV			MAY		
18...	1105	25.7	19...	1159	24.4
DEC			JUN		
16...	1424	25.5	14...	1228	24.3
JAN			JUL		
26...	1343	25.4	27...	1412	24.8
FEB			SEP		
19...	1236	24.9	01...	0729	24.8
MAR			20...	1553	25.0
23...	1347	24.5			



LEE COUNTY—Continued

WELL NUMBER.--263955082083102. Local Number L 2820.

LOCATION.--Lat 26°39'53", long 82°08'31", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.6, T.44 S., R.22 E., Hydrologic Unit 03100103, 10 ft west of H. Stringfellow Road (County Road 767) and 3.95 mi north of Pine Island Road, and 3.0 mi southwest of Bokeelia Post Office.

AQUIFER.--Mid-Hawthorn aquifer of the Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 241 ft, cased to 192 ft, open hole 192 to 241 ft.

INSTRUMENTATION.--Monthly measurement with pressure gage or chalked tape.

DATUM.--Measuring point: For pressure-gage measurements, top of 8 in. casing, 10.56 ft above National Geodetic Vertical Datum of 1929. For chalked-tape measurements, top of cap 11.04 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 7.6 ft above NGVD.

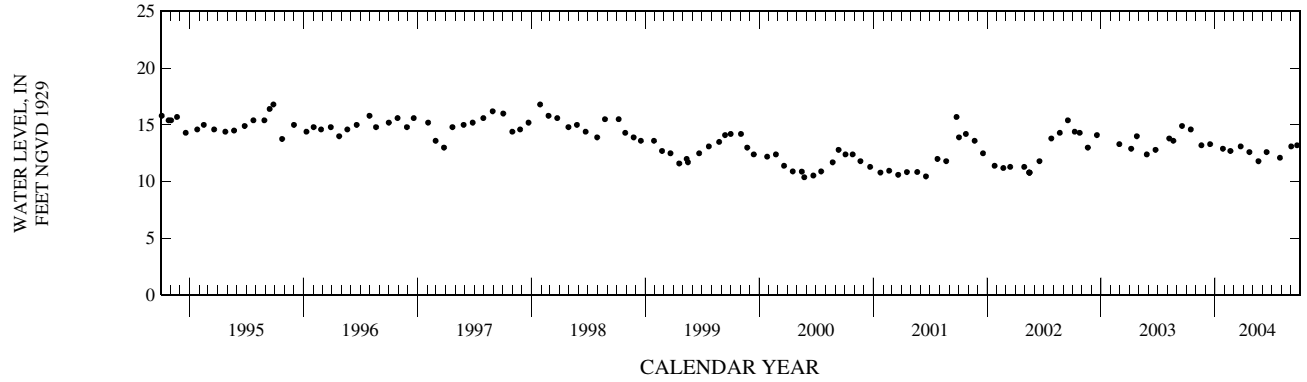
REMARKS.--Well is also used for salinity monitoring. This well is open to the aquifer from 192 to 241 ft. The exact depth from which the chloride-containing water is emanating cannot be further delineated.

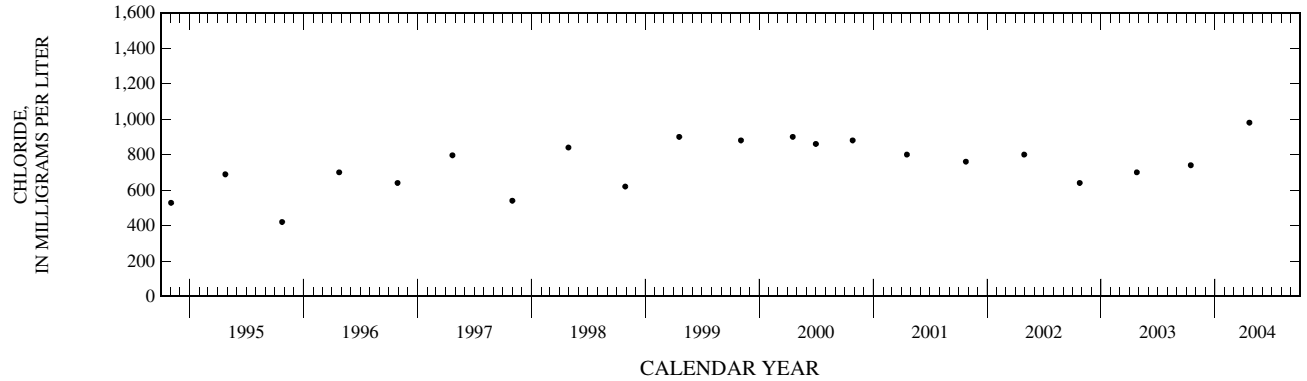
PERIOD OF RECORD.--October 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.6 ft NGVD, Nov. 26, 1985; lowest, 10.38 ft NGVD, May 24, 2000.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
15...	1010	14.6	2,720	740
NOV				
18...	1109	13.2	--	--
DEC				
16...	1429	13.3	--	--
JAN				
26...	1340	12.9	--	--
FEB				
19...	1235	12.7	--	--
MAR				
23...	1344	13.1	--	--
APR				
20...	1445	12.6	3,520	980
MAY				
19...	1158	11.8	--	--
JUN				
14...	1226	12.6	--	--
JUL				
27...	1412	12.1	--	--
SEP				
01...	0725	13.1	--	--
20...	1557	13.2	--	--





LEE COUNTY—Continued

WELL NUMBER.--263955082083103. Local Number L 2549.

LOCATION.--Lat 26°39'53", long 82°08'31", in SE $^1/_4$ SE $^1/_4$ sec.6, T.44 S., R.22 E., Hydrologic Unit 03100103, 19 ft west of H. Stringfellow Road (County Road 767), 3.95 mi north of Pine Island Road, 3.0 mi southeast of Bokeelia Post Office.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 80 ft, cased to 58 ft, open hole 58 to 80 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 10.88 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 8.2 ft above NGVD.

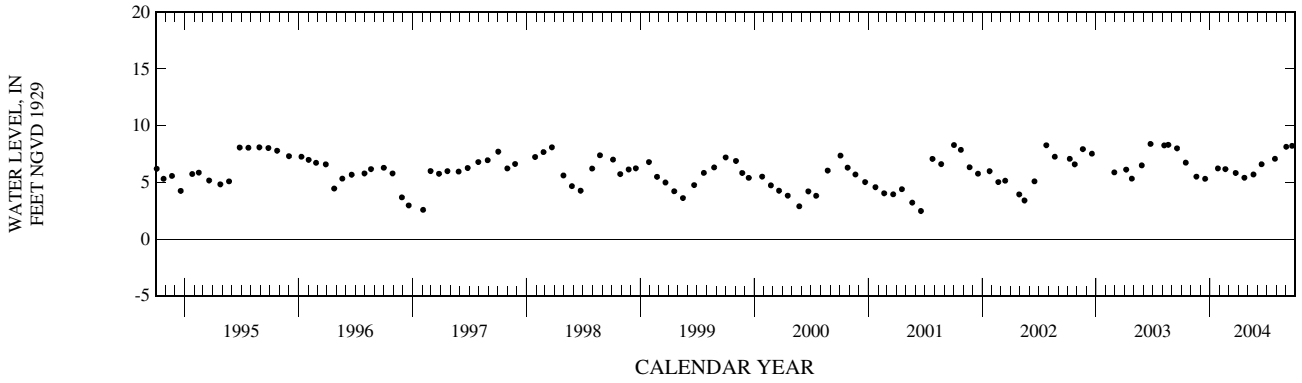
REMARKS.--Records of water levels prior to October 1978 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--January 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.38 ft NGVD, Mar. 31, 1987, June 24, 2003; lowest, 2.15 ft NGVD, June 22, 1994.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
15...	1011	6.73	20...	1457	5.40
NOV			MAY		
18...	1101	5.50	19...	1204	5.69
DEC			JUN		
16...	1421	5.31	14...	1226	6.59
JAN			JUL		
26...	1345	6.22	27...	1416	7.07
FEB			SEP		
19...	1239	6.16	01...	0721	8.13
MAR			20...	1549	8.21
23...	1351	5.82			



LEE COUNTY—Continued

WELL NUMBER.--264002082012801. Local Number L 2700.

LOCATION.--Lat 26°40'02", long 82°01'29", in SE ¼ SE ¼ sec.5, T.44 S., R.23 E., Hydrologic Unit 03100103, at intersection of Tropicana Parkway and NW 24th Place in median, 2 mi north of Pine Island Road and 3.8 mi northeast of Matlacha Post Office.

AQUIFER.--Mid-Hawthorn aquifer of the Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 205 ft, cased to 165 ft, open hole 165 to 205 ft.

INSTRUMENTATION.--Monthly measurement with pressure gage or chalked tape.

DATUM.--Measuring point: Top of 4 in. steel cap, 9.54 ft above National Geodetic Vertical Datum of 1929. Prior to October 1989, measuring point was top of casing, 9.16 ft above NGVD.

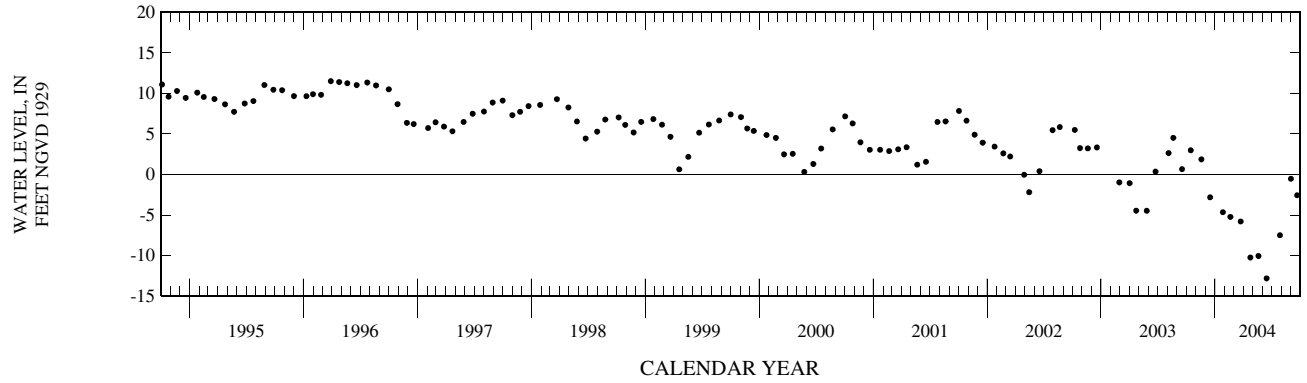
LAND-SURFACE DATUM.--Land surface is approximately 7.1 ft above NGVD.

PERIOD OF RECORD.--October 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.0 ft NGVD, Sept. 27, 1979; lowest, 12.81 ft below NGVD, June 14, 2004.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
15...	1422	2.99	23...	1401	-10.24
NOV			MAY		
18...	0940	1.87	19...	1244	-10.05
DEC			JUN		
16...	1007	-2.81	14...	1441	-12.81
JAN			JUL		
26...	1428	-4.65	27...	0925	-7.49
FEB			AUG		
19...	1059	-5.23	31...	1621	-.52
MAR			SEP		
23...	1047	-5.79	20...	1250	-2.56



LEE COUNTY—Continued

WELL NUMBER.--264053081572501. Local Number L 4820.

LOCATION.--Lat 26°40'57", long 81°57'25", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 6, T.44 S., R.24 E., Hydrologic Unit 03090205, at the southeast corner of Andalusia Boulevard and East Diplomat Parkway, and 4.5 mi northwest of North Ft. Myers Post Office.

AQUIFER.--Mid-Hawthorn aquifer of the Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 190 ft, cased to 128 ft, open hole 128 to 190 ft.

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

DATUM.--Measuring Point: Top of recorder shelf, 16.67 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 14.2 ft above NGVD.

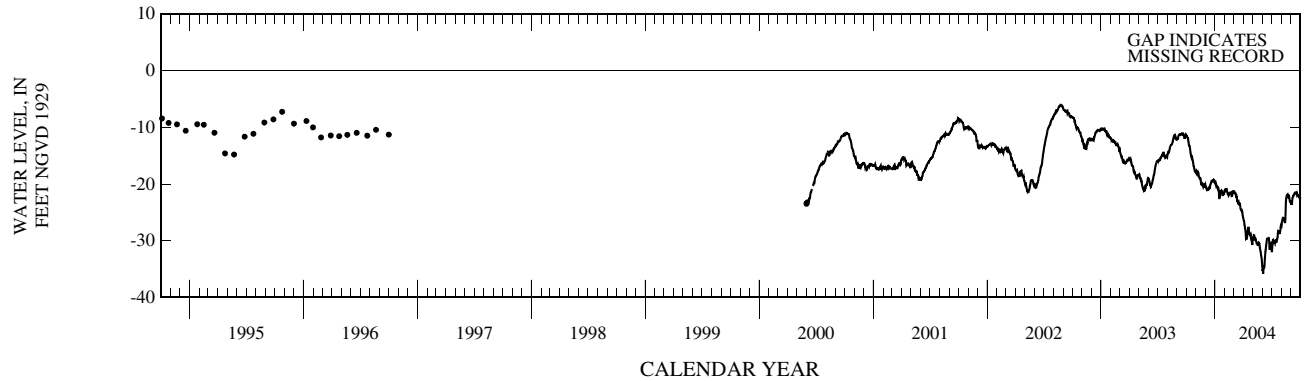
REMARKS.--Well also used for salinity monitoring. Continuous conductivity records for water years 2000 to 2002 and chloride sample results for previous years are available in the files of the U.S. Geological Survey. Records of water levels prior to October 1983 are available in files of the U.S. Geological Survey. Conductivity probe discontinued September 30, 2002.

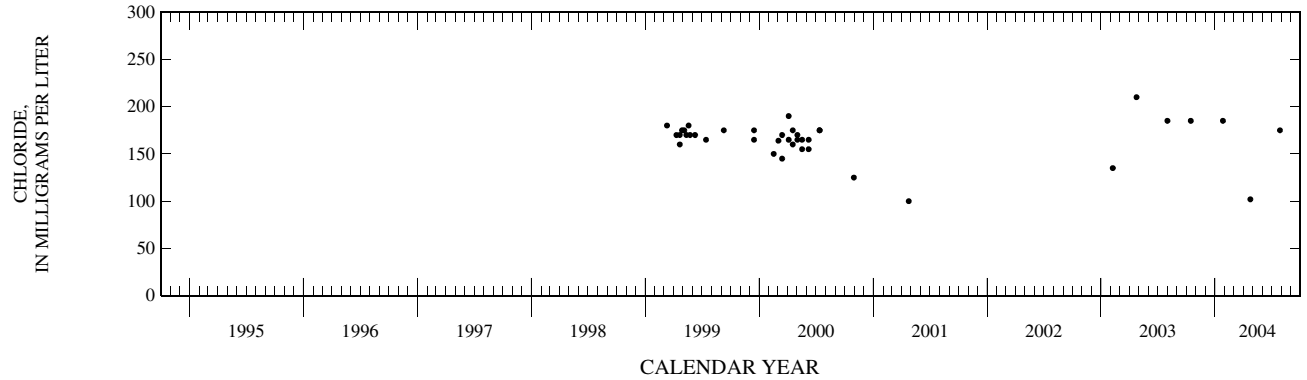
PERIOD OF RECORD.--April 1981 to September 1981 (monthly), October 1983 to September 1996 (monthly), April 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.15 ft NGVD, Sept. 28, 1984; lowest daily maximum water level, 35.82 ft below NGVD, June 3, 2004.

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	-11.84	-17.83	-20.95	-20.47	-21.10	-21.64	-27.42	-29.06	-34.64	-30.04	-25.99	-22.51
10	-13.23	-18.89	-21.04	-20.61	-21.67	-22.21	-29.61	-29.74	-31.96	-30.29	-26.49	-21.85
15	-14.85	-19.03	-20.54	-22.48	-21.80	-23.44	-27.96	-30.39	-29.72	-30.38	-23.26	-21.51
20	-15.77	-19.89	-19.57	-21.22	-21.57	-23.51	-28.79	-30.36	-29.51	-28.68	-21.94	-22.10
25	-16.93	-20.31	-19.54	-22.09	-22.01	-24.72	-29.62	-31.83	-30.64	-28.64	-22.19	-22.09
EOM	-17.82	-20.16	-19.60	-21.22	-21.43	-25.91	-29.95	-34.30	-31.69	-27.17	-23.44	-22.60
MAX	-11.56	-17.72	-19.23	-19.84	-20.90	-21.34	-26.25	-29.04	-29.51	-27.17	-21.94	-21.48





LEE COUNTY—Continued

WELL NUMBER.--264101081443001. Local Number L 652.

LOCATION.--Lat 26°41'00", long 81°44'27", in NW $^1/_4$ NW $^1/_4$ sec.5, T.44 S., R.26 E., Hydrologic Unit 03090205, at J. Hudson House, 0.30 mi east of Orange River Loop Road, 0.50 mi north of Orange River Road, and 8.5 mi northeast of Fort Myers Post Office.

AQUIFER.--Lower Hawthorn aquifer of Oligocene to Miocene Age, Geologic Unit 122 LMSN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 598 ft, cased to 188 ft, open hole 188 to 598 ft.

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

DATUM.--Measuring point: Top of 2 in. plug on pressure gage 8.84 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 6.8 ft above NGVD.

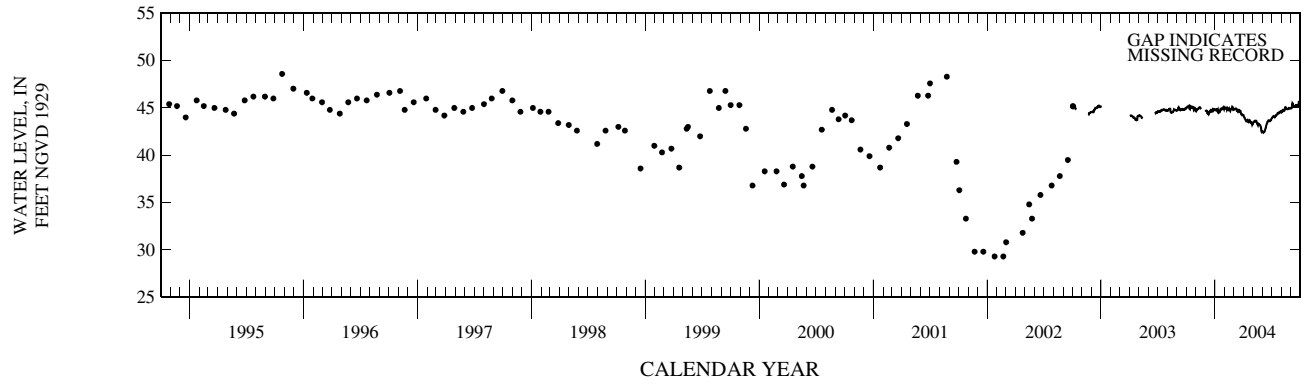
REMARKS.--Records of water levels prior to October 1975 are available in files of the U.S. Geological Survey. Records of water levels from May 1998 to September 27, 2002, are considered to be estimates because of problems identified with the pressure gage and precise measuring point used. Well was also used for salinity monitoring, May 1980 to April 1993.

PERIOD OF RECORD.--October 1967 to October 1969 (semiannual), February 1970 to August 1971 (quarterly), October 1971 to December 1974 (bimonthly), January 1975 to September 1993 (monthly), October 1993 to September 1994 (intermittent), October 1994 to August 2002 (monthly), September 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 48.6 ft NGVD, Oct. 24, 1995; lowest, 29.3 ft NGVD (estimated), Jan. 24 and Feb. 21, 2002.

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	45.14	44.83	44.69	44.86	44.94	44.93	43.94	43.54	42.44	44.06	44.74	45.49
10	45.02	44.97	44.52	44.78	44.95	44.89	43.59	43.66	42.77	44.02	44.72	45.13
15	45.17	44.97	44.52	44.64	44.95	44.68	43.56	43.34	43.35	44.22	44.90	45.28
20	45.01	---	44.73	44.93	44.84	44.61	43.72	43.27	43.68	44.40	44.87	45.21
25	44.78	---	44.76	44.97	45.12	44.32	43.40	43.13	43.66	44.47	44.93	45.50
EOM	44.67	---	44.82	45.00	44.82	44.25	43.29	42.49	43.89	44.56	44.94	45.32
MAX	45.23	---	44.88	45.08	45.12	44.93	44.25	43.66	43.89	44.63	45.15	45.73



LEE COUNTY—Continued

WELL NUMBER.--264120082022101. Local Number L 1113.

LOCATION.--Lat 26°41'25", long 82°02'20", in SW $^1/_4$ NW $^1/_4$ sec.32, T.43 S., R.23 E., Hydrologic Unit 03100103, 100 ft northeast of intersection of Van Buren Parkway and Burnt Store Road (County Road 765), 3.5 mi north of Pine Island Road, and 5.1 mi northeast of Matlacha Post Office.

AQUIFER.--Mid-Hawthorn aquifer of the Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 2 in., depth 230 ft, open hole 126 to 230 ft.

INSTRUMENTATION.--Monthly measurement with pressure gage or chalked tape.

DATUM.--Measuring point: Top of 2 in. casing, 10.90 ft above National Geodetic Vertical Datum of 1929. From April 1993 to September 2000, the measuring point was considered to be 10.54 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 7.6 ft above NGVD.

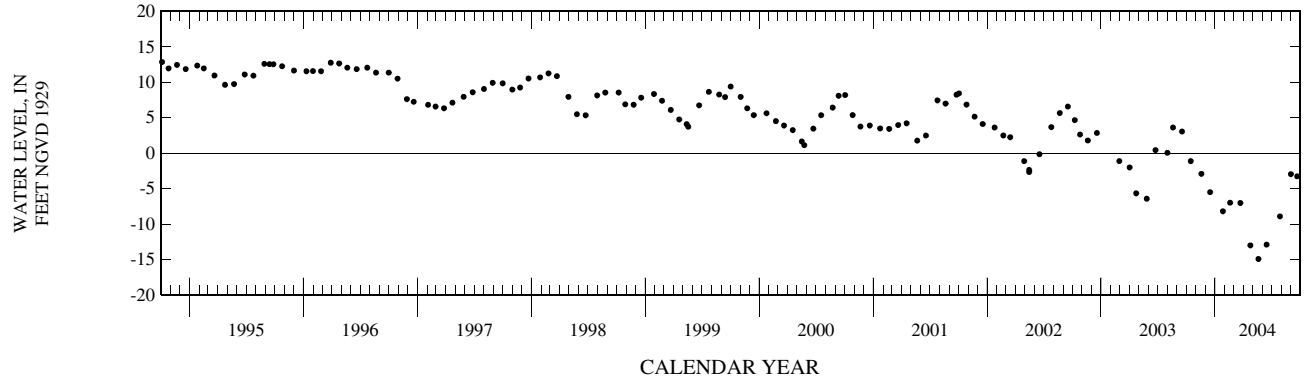
REMARKS.--The figures of water level as elevation, in ft NGVD, from April 1993 to September 2000, are incorrect. Corrected records are available in the files of the U.S. Geological Survey. This well is open hole 126 to 230 ft. Well has collapsed or is obstructed to 128 ft. It is considered that this does not affect the water levels. See DATUM.

PERIOD OF RECORD.--February 1970 to September 1993 (intermittent), October 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.4 ft NGVD, Oct. 12, 1976; lowest, 14.90 ft below NGVD, May 19, 2004.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
15...	0849	-1.11	23...	1349	-12.99
NOV			MAY		
18...	0954	-2.90	19...	1251	-14.90
DEC			JUN		
16...	1017	-5.49	14...	1303	-12.88
JAN			JUL		
26...	1439	-8.18	27...	0917	-8.90
FEB			AUG		
18...	1459	-6.97	31...	1539	-2.95
MAR			SEP		
22...	1545	-7.01	20...	1215	-3.25



LEE COUNTY—Continued

WELL NUMBER.--264147081562701. Local Number L 1111.

LOCATION.--Lat 26°41'49", long 81°56'23", in SW $^1/_4$ SW $^1/_4$ SW $^1/_4$ sec.29, T.43 S., R.24 E., Hydrologic Unit 03100103, 500 ft northeast of intersection of Del Prado Boulevard N and Kismet Parkway E.

AQUIFER.--Mid-Hawthorn aquifer of the Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 2 in., depth 165 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of thread of 2 in. PVC casing, 20.59 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 16.8 ft above NGVD.

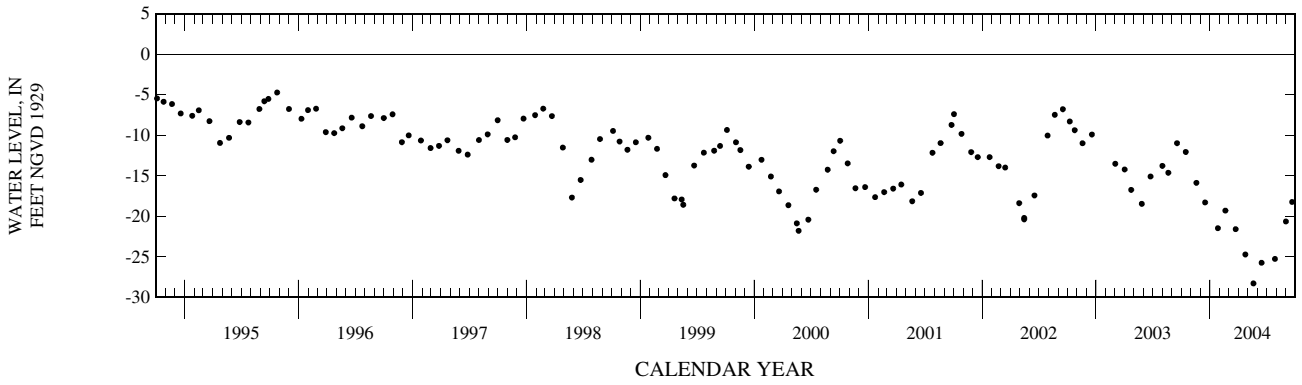
REMARKS.--Conductivity and chloride profiles for previous water years are available in the files of the U.S. Geological Survey. Records of water levels prior to February 1976 are available in the files of the U.S. Geological Survey

PERIOD OF RECORD.--May 1970 to July 1985 (intermittent), August 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.26 ft NGVD, May 15, 1980; lowest, 28.27 ft below NGVD, May 19, 2004.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
15...	1449	-12.05	23...	1452	-24.70
NOV			MAY		
18...	1014	-15.86	19...	1419	-28.27
DEC			JUN		
16...	1111	-18.28	14...	1457	-25.72
JAN			JUL		
26...	1446	-21.46	27...	1007	-25.25
FEB			AUG		
19...	1409	-19.29	31...	1602	-20.63
MAR			SEP		
23...	1106	-21.58	20...	1236	-18.22



LEE COUNTY—Continued

WELL NUMBER.--264153082022301. Local Number L 721.

LOCATION.--Lat 26°41'53", long 82°02'22", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.30, T.43 S., R.23 E., Hydrologic Unit 03100103, at northwest corner of County Road 765 and Delilah Drive, 4.2 mi north of Pine Island Road and 5.1 mi northeast of Matlacha Post Office.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 18 ft, cased to 9 ft, slotted 9 to 18 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 8.85 ft above National Geodetic Vertical Datum of 1929. Prior to October 1990, measuring point was top of cap, 8.98 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 6.2 ft above NGVD.

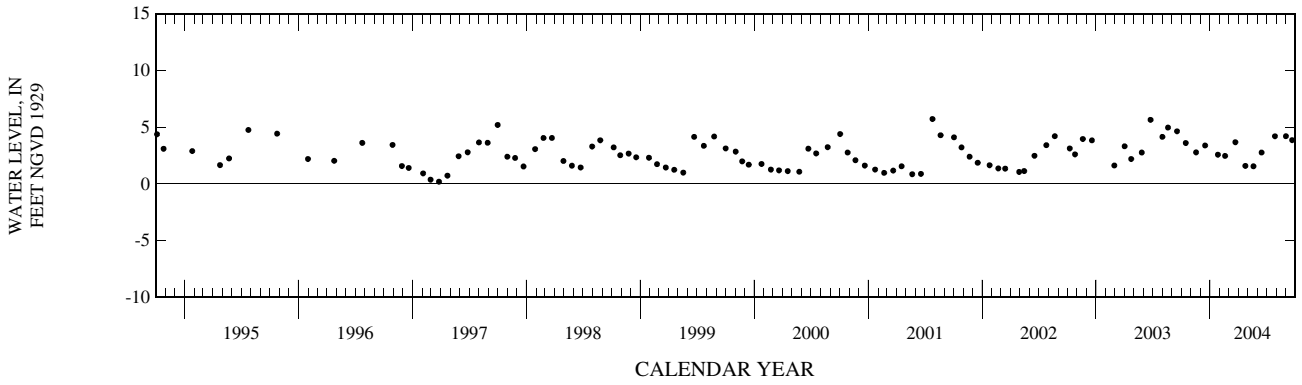
REMARKS.--Records of water levels prior to October 1975 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--July 1968 to September 1994 (monthly), October 1994 to September 1996 (quarterly), September 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.72 ft NGVD, July 25, 2001; lowest, 0.20 ft NGVD, Mar. 26, 1997.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
15...	0845	3.61	23...	1344	1.59
NOV			MAY		
17...	1459	2.78	19...	1304	1.56
DEC			JUN		
16...	1032	3.39	14...	1340	2.77
JAN			JUL		
26...	1456	2.58	27...	0912	4.20
FEB			AUG		
18...	1451	2.47	31...	1535	4.21
MAR			SEP		
22...	1537	3.68	20...	1210	3.86



LEE COUNTY—Continued

WELL NUMBER.--264241081582401. Local Number L 1110.

LOCATION.--Lat 26°42'41", long 81°58'25", in NW $^1/_4$ NW $^1/_4$ NW $^1/_4$ sec.25, T.43 S., R.23 E., Hydrologic Unit 03100103, northeast corner of Juanita Boulevard and Jacaranda Parkway, 1 mi north of Kismet Parkway, 2 mi west of Del Prado Boulevard, 2 mi north of Pine Island Road, 2 mi west of U.S. Highway 41, and 3.25 mi north of Ft. Myers Post Office.

AQUIFER.--Mid-Hawthorn aquifer of the Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 2 in., depth 238 ft, open hole 147 to 238 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 19.92 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 15.8 ft above NGVD.

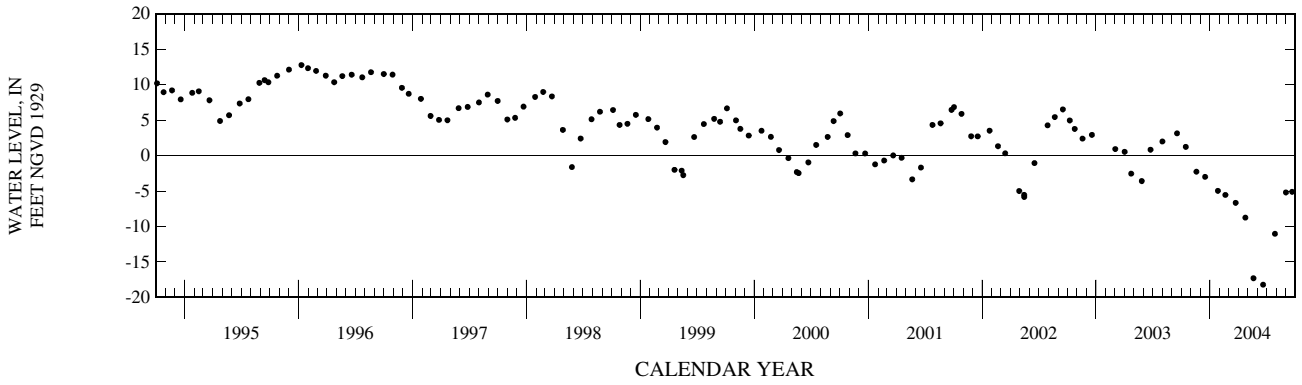
REMARKS.--Conductivity and chloride profiles for previous water years are available in the files of the U.S. Geological Survey.

PERIOD OF RECORD.--February 1970 to September 1993 (intermittent), October 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.38 ft NGVD, Oct. 12, 1976; lowest, 18.20 ft below NGVD, June 19, 2004.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
15...	1440	1.23	23...	1501	-8.75
NOV			MAY		
18...	1003	-2.27	19...	1441	-17.29
DEC			JUN		
16...	1100	-3.00	19...	1509	-18.20
JAN			JUL		
26...	1448	-4.97	27...	1016	-11.03
FEB			AUG		
19...	1322	-5.55	31...	1548	-5.20
MAR			SEP		
23...	1058	-6.66	20...	1228	-5.11



LEE COUNTY—Continued

WELL NUMBER.--264308081405402. Local Number L 2530.

LOCATION.--Lat 26°43'08", long 81°40'49", in NE $^1/_4$ SE $^1/_4$ sec.23, T.43 S., R.26 E., Hydrologic Unit 03090205, 0.25 mi north of State Road 80, 0.30 mi east on Werner Drive and 4.3 mi west of Alva Post Office.

AQUIFER.--Lower Hawthorn aquifer of Oligocene to Miocene Age, Geologic Unit 122 LMSN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 614 ft, cased to 475 ft, 2 in. diameter open hole 475 to 614 ft.

INSTRUMENTATION.--Monthly measurement with pressure gage.

DATUM.--Measuring point: Top of 8 in. casing, 9.90 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 7.2 ft above NGVD.

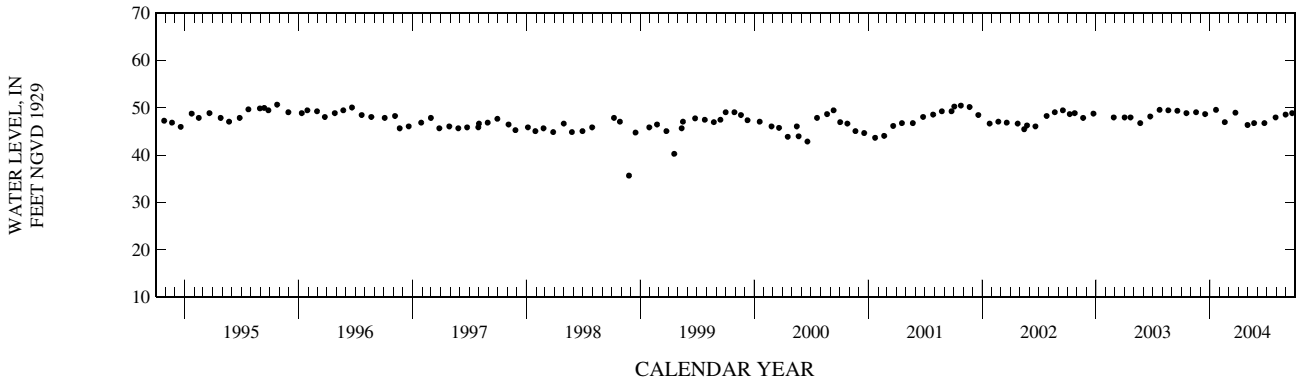
REMARKS.--Records of water levels prior to October 1979 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--January 1978 to September 1993 (monthly), October 1993 to September 1994 (intermittent), October 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 58.9 ft NGVD, Oct. 29, 1981; lowest, 35.7 ft NGVD, Nov. 25, 1998.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
17...	1607	48.9	30...	1710	46.4
NOV			MAY		
17...	1520	49.1	21...	1542	46.8
DEC			JUN		
16...	1600	48.7	23...	1040	46.8
JAN			JUL		
20...	1512	49.6	29...	1203	48.0
FEB			AUG		
17...	1443	47.0	30...	1415	48.6
MAR			SEP		
22...	1506	49.0	20...	1333	48.9



LEE COUNTY—Continued

WELL NUMBER.--264320081365701. Local Number L 1977.

LOCATION.--Lat 26°43'19", long 81°36'56", in SE ¼ NE ¼ NE ¼ sec.21, T.43 S., R.27 E., Hydrologic Unit 03090205, 11.5 ft west of Parkinson Road, 300 ft north of State Road 78, and 0.7 mi northwest of Alva Post Office.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 185 ft, cased to 65 ft, screened 65 to 85 ft and cased 85 to 122 ft, open hole 122 to 185 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 17.20 ft above National Geodetic Vertical Datum of 1929. From January 1999 to March 2000, top of casing was 17.79 ft above NGVD. Prior to May 1998, top of casing was 19.89 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 17.1 ft above NGVD.

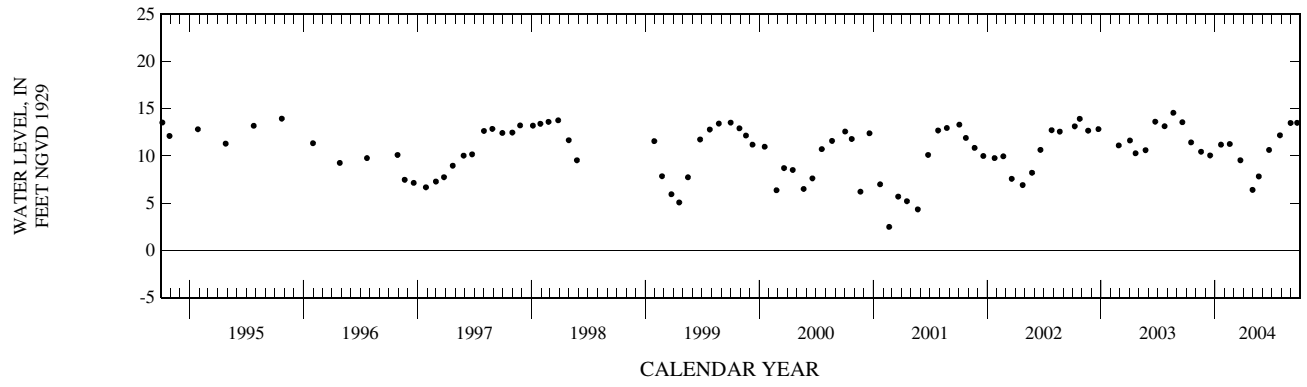
REMARKS.--Records of water levels prior to October 1975 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--December 1974 to September 1994 (monthly), October 1994 to July 1996 (quarterly), October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.18 ft NGVD, Sept. 1, 1988; lowest, 2.50 ft NGVD, Feb. 20, 2001.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
16...	1240	11.43	30...	0918	6.41
NOV			MAY		
17...	1032	10.44	20...	1215	7.83
DEC			JUN		
16...	1040	10.05	22...	0923	10.63
JAN			JUL		
20...	0943	11.19	27...	1028	12.18
FEB			AUG		
17...	0851	11.26	30...	1247	13.48
MAR			SEP		
22...	0939	9.54	20...	0908	13.50



LEE COUNTY—Continued

WELL NUMBER.--264329081340401. Local Number L 2200.

LOCATION.--Lat 26°43'30", long 81°34'06", in NE $^1/_4$ NE $^1/_4$ sec.24, T.43 S., R.27 E., Hydrologic Unit 03090205, west side of the Lee/Hendry County Line and south side of State Road 78, and 2.8 mi northeast of Alva Post Office.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 163 ft, cased to 122 ft, screened 122 to 163 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 20.00 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 17.3 ft above NGVD.

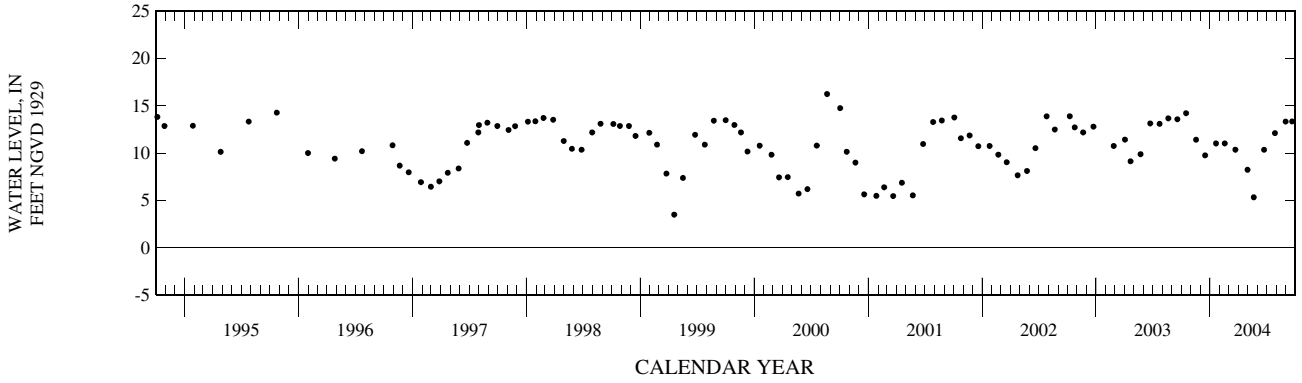
REMARKS.--Records of water levels prior to October 1975 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--September 1975 to September 1994 (monthly), October 1994 to July 1996 (quarterly), October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.32 ft NGVD, Sept. 23, 1986; lowest, 3.51 ft NGVD, Apr. 19, 1999.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
16...	1246	14.23	30...	0918	8.25
NOV			MAY		
17...	1050	11.43	20...	1337	5.34
DEC			JUN		
16...	1111	9.78	22...	0948	10.37
JAN			JUL		
20...	1025	11.04	27...	1053	12.13
FEB			AUG		
17...	0925	11.04	30...	1316	13.35
MAR			SEP		
22...	1017	10.38	20...	0940	13.36



LEE COUNTY—Continued

WELL NUMBER.--264329081340402. Local Number L 2202.

LOCATION.--Lat 26°43'30", long 81°34'06", in NE $^1/_4$ NE $^1/_4$ sec.24, T.43 S., R.27 E., Hydrologic Unit 03090205, west side of the Lee/Hendry County Line and south side of State Road 78, and 2.8 mi northeast of Alva Post Office.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 17.4 ft, cased to 7.4 ft, screened 7.4 to 17.4 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.-- Measuring point: Top of casing, 20.03 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 17.3 ft above NGVD.

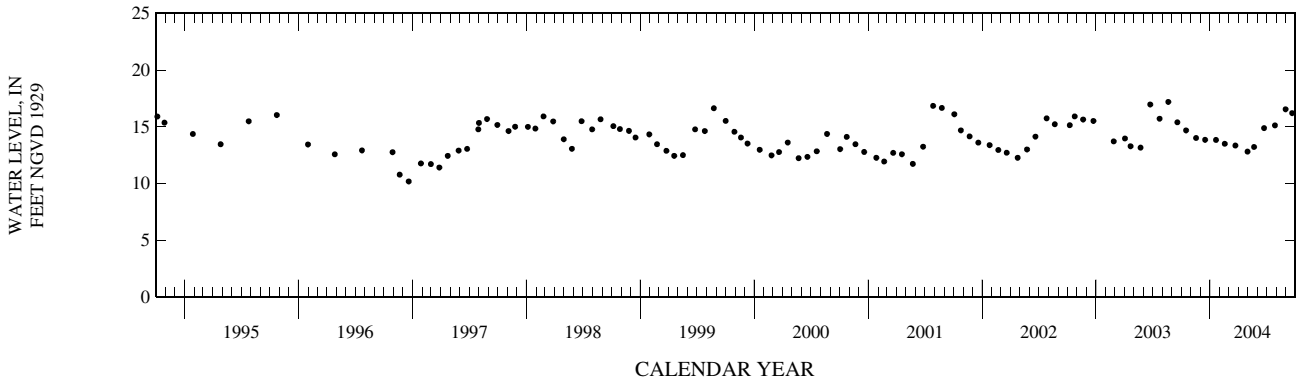
REMARKS.--Records of water levels prior to October 1975 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--September 1975 to September 1994 (monthly), October 1994 to July 1996 (quarterly), October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.20 ft NGVD, Aug. 20, 2003; lowest, 10.19 ft NGVD, Dec. 19, 1996. (Corrected).

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
16...	1248	14.69	30...	1346	12.82
NOV			MAY		
17...	1052	14.02	21...	1346	13.23
DEC			JUN		
16...	1113	13.86	22...	0951	14.89
JAN			JUL		
20...	1016	13.85	27...	1056	15.13
FEB			AUG		
17...	0928	13.51	30...	1318	16.55
MAR			SEP		
22...	0916	13.36	20...	0940	16.21



LEE COUNTY—Continued

WELL NUMBER.--264359081424701. Local Number L 1975.

LOCATION.--Lat 26°43'59", long 81°42'45", in SE ¼ SE ¼ NE ¼ sec.16, T.43 S., R.26 E., Hydrologic Unit 03090205, at northwest corner of State Road 78 and North Olga Drive, and 6.5 mi west of Alva Post Office.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 168 ft, cased to 102 ft, screened 102 to 142 ft, cased 142 to 158 ft, open hole 158 to 168 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape or pressure gage.

DATUM.--Measuring point: Top of 4 in. cap, 15.59 ft above National Geodetic Vertical Datum of 1929. Prior to October 1995, measuring point was top of casing, 15.52 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 13.1 ft above NGVD.

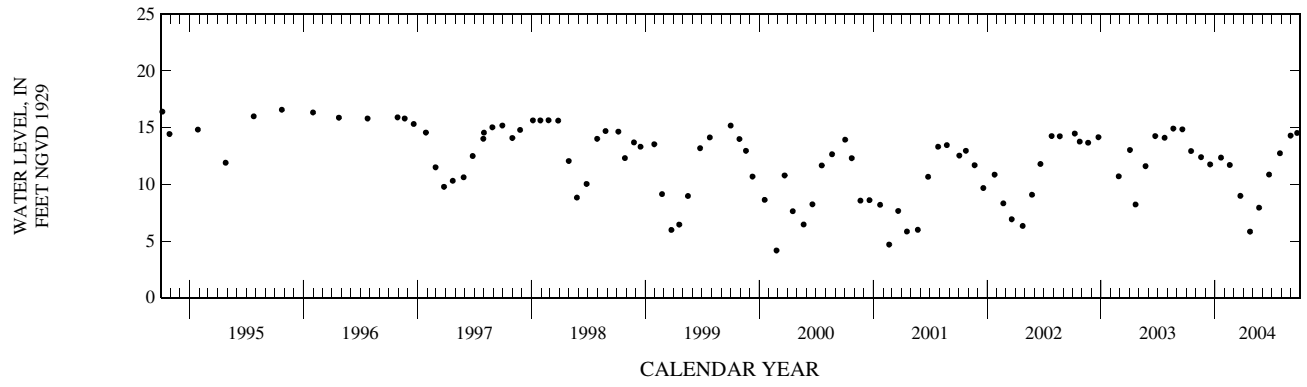
REMARKS.--Records of water levels prior to October 1975 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--December 1974 to September 1994 (monthly), October 1994 to July 1996 (quarterly), October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.02 ft NGVD, Nov. 29, 1979; lowest, 4.17 ft NGVD, Feb. 25, 2000.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
16...	1212	12.93	22...	1314	5.83
NOV			MAY		
17...	1017	12.39	21...	1202	7.94
DEC			JUN		
16...	1021	11.75	22...	0909	10.86
JAN			JUL		
20...	0922	12.35	27...	1009	12.73
FEB			AUG		
17...	0834	11.70	30...	1223	14.29
MAR			SEP		
22...	0920	8.98	20...	0853	14.52



LEE COUNTY—Continued

WELL NUMBER.--264359081424702. Local Number L 1976.

LOCATION.--Lat 26°43'59", long 81°42'45", in SE ¼ SE ¼ NE ¼ sec.16, T.43 S., R.26 E., Hydrologic Unit 03090205, at northwest corner of State Road 78 and North Olga Drive, and 6.5 mi west of Alva Post Office.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 15 ft, cased to 5 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 15.54 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 13.1 ft above NGVD.

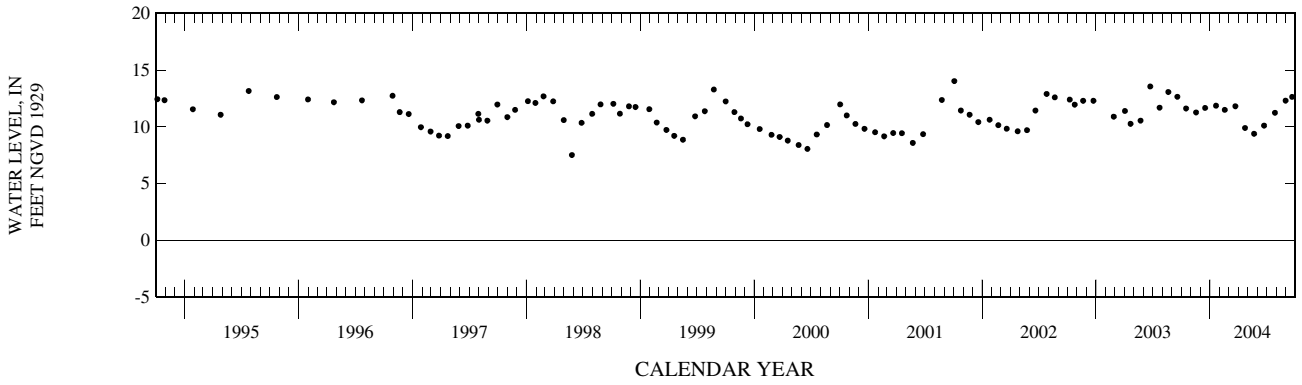
REMARKS.--Records of water levels prior to October 1975 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--September 1974 to September 1994 (monthly), October 1994 to July 1996 (quarterly), October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.03 ft NGVD, Oct. 3, 2001; lowest, 7.52 ft NGVD, May 26, 1998.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
16...	1211	11.62	22...	1320	9.90
NOV			MAY		
17...	1019	11.27	21...	1208	9.39
DEC			JUN		
16...	1026	11.67	22...	0912	10.11
JAN			JUL		
20...	0916	11.87	27...	1010	11.24
FEB			AUG		
17...	0838	11.50	30...	1221	12.31
MAR			SEP		
22...	0917	11.82	20...	0854	12.64



LEE COUNTY—Continued

WELL NUMBER.--264427081362601. Local Number L 2531.

LOCATION.--Lat 26°44'35", long 81°36'23", in SE ¼ SW ¼ sec.10, T.43 S., R.27 E., Hydrologic Unit 03090205, 2 mi north of Alva on Persimmon Ridge Road, on west side of road and 1.2 mi north of State Road 78.

AQUIFER.--Lower Hawthorn aquifer of Oligocene to Miocene Age, Geologic Unit 122 LMSN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 605 ft, cased to 345 ft, open hole 345 to 605 ft.

INSTRUMENTATION.--Monthly measurement with pressure gage.

DATUM.--Measuring point: Top of 8 in. PVC casing, 20.66 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 19.7 ft above NGVD.

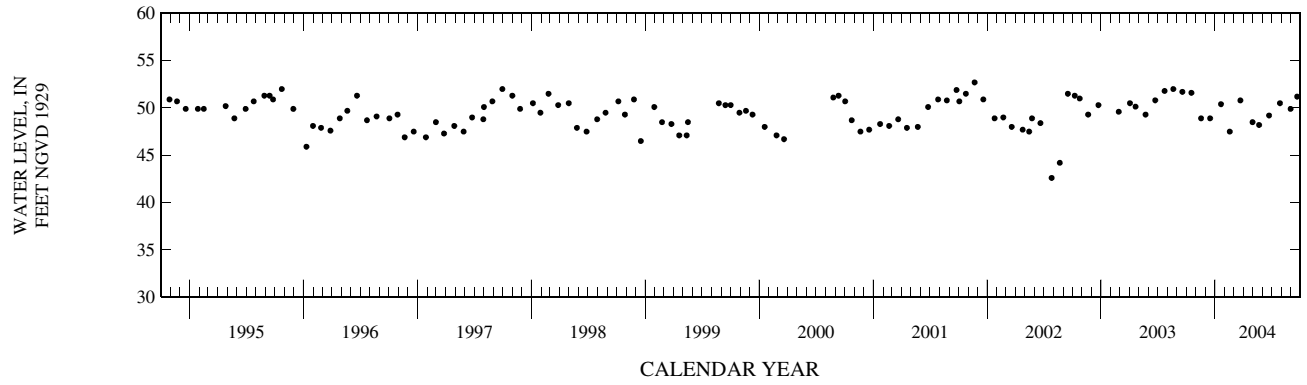
REMARKS.--Records of water levels prior to October 1983 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--March 1978 to September 1993 (monthly), October 1993 to September 1994 (intermittent), October 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 53.6 ft NGVD, Sept. 1, 1988; lowest, 42.6 ft NGVD, July 26, 2002.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
17...	1021	51.6	30...	1008	48.5
NOV			MAY		
17...	1045	48.9	21...	1327	48.2
DEC			JUN		
16...	1104	48.9	22...	0942	49.2
JAN			JUL		
20...	1010	50.4	27...	1045	50.5
FEB			AUG		
17...	0914	47.5	30...	1302	49.9
MAR			SEP		
22...	1001	50.8	20...	0930	51.2



LEE COUNTY—Continued

WELL NUMBER.--264433081360601. Local Number L 5708.

LOCATION.--Lat 26°44'31", long 81°36'09", in SE ¼ SE ¼ sec.10, T.43 S., R.27 E., Hydrologic Unit 03090205, 250 ft west of Frank Green House, 700 ft south of Persimmon Ridge Road, 1.6 mi north then east of intersection of State Road 78 and Persimmon Ridge Road and 1.9 mi north of Alva.

AQUIFER.--Upper Floridan aquifer of the Oligocene Age, Geologic Unit 120 UFAQ.

WELL CHARACTERISTICS.--Driven, observation, artesian well, diameter 6 in., depth 920 ft, cased to 620 ft, open hole 620 to 920 ft. (Corrected).

INSTRUMENTATION.--Monthly measurement with pressure gage.

DATUM.--Measuring point: Top of 4 in. by 2 in. reducer, 21.55 ft above National Geodetic Vertical Datum of 1929.

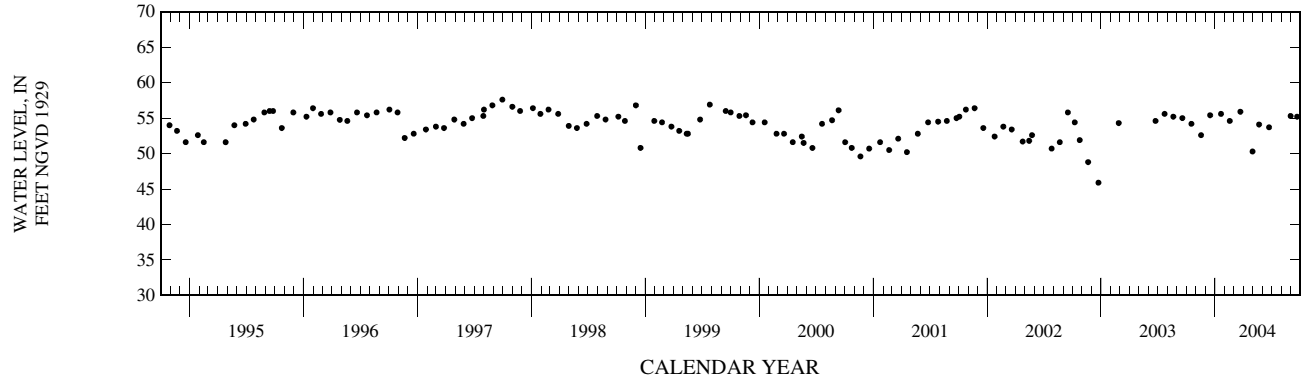
LAND-SURFACE DATUM.--Land surface is approximately 19.4 ft above NGVD.

PERIOD OF RECORD.--May 1984 to September 1988 (semiannual), September 1989 to September 1993 (monthly), October 1993 to September 1994 (intermittent), October 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 57.6 ft NGVD, Sept. 30, 1986, Sept. 29, 1997; lowest, 45.9 ft NGVD, Dec. 23, 2002.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
17...	1023	54.2	30...	0956	50.3
NOV			MAY		
17...	1047	52.6	21...	1319	54.1
DEC			JUN		
16...	1058	55.4	22...	0937	53.7
JAN			AUG		
20...	0957	55.6	30...	1252	55.3
FEB			SEP		
17...	0907	54.6	20...	0924	55.2
MAR					
22...	0956	55.9			



LEE COUNTY—Continued

WELL NUMBER.--264517081513201. Local Number L 2341.

LOCATION.--Lat 26°45'18", long 81°51'24", in NW $^1/_4$ NW $^1/_4$ sec.7, T.43 S., R.25 E., Hydrologic Unit 03100103, at southeast corner of intersection of Nalle Grade Road and Huber Road, 15 ft east of Huber Road, 47 ft south of Nalle Grade Road, 0.4 mi west of Slater Road, 4 mi north of State Road 78 and 6.1 mi northeast of North Fort Myers Post Office.

AQUIFER.--Lower Hawthorn aquifer of Oligocene to Miocene Age, Geologic Unit 122 LMSN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 585 ft, cased to 300 ft, open hole 300 to 585 ft.

INSTRUMENTATION.--Monthly measurement with pressure gage.

DATUM.--Measuring point: Top of 8 in. casing, 25.17 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 23.6 ft above NGVD.

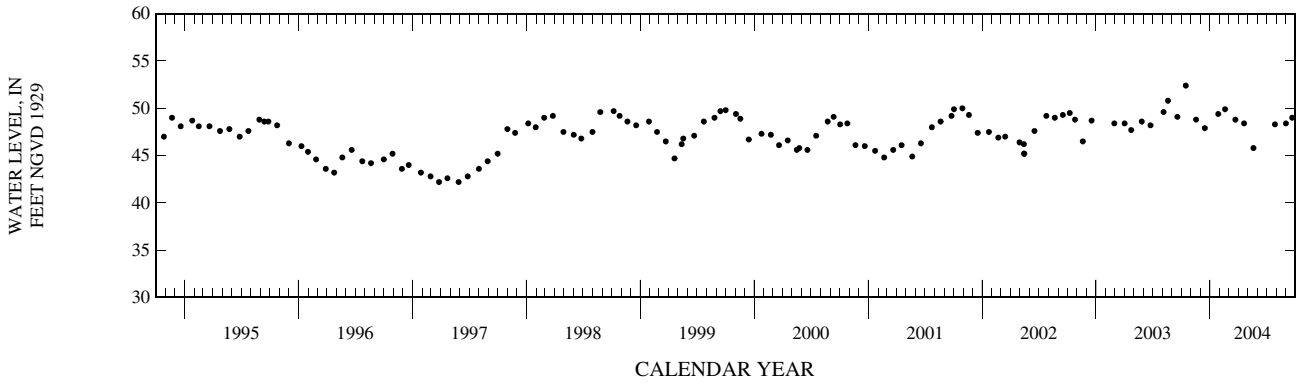
REMARKS.--Records of water levels prior to October 1978 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--September 1976 to October 1993 (monthly), April 1994 to September 1994 (intermittent), October 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 52.4 ft NGVD, Oct. 15, 2003; lowest, 42.2 ft NGVD, Mar. 26 and May 28, 1997.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
15...	0748	52.4	19...	1539	48.4
NOV			MAY		
17...	1401	48.8	19...	1402	45.8
DEC			JUL		
15...	1439	47.9	27...	0825	48.3
JAN			AUG		
27...	1011	49.4	31...	1439	48.4
FEB			SEP		
18...	1344	49.9	20...	1058	49.0
MAR					
22...	1437	48.8			



LEE COUNTY—Continued

WELL NUMBER.--264517082022101. Local Number L 1059.

LOCATION.--Lat 26°45'15", long 82°02'21", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.7, T.43 S., R.23 E., 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.

AQUIFER.--Mid-Hawthorn aquifer of the Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 2 in.,depth 189 ft, cased to 156 ft, open hole 156 to 189 ft.

INSTRUMENTATION.--Monthly measurement with pressure gage or chalked tape.

DATUM.--Measuring point: Top of bushing, 13.95 ft above National Geodetic Vertical Datum of 1929. From September 1994 to September 1997, measuring point was incorrectly considered to be 14.17 ft above NGVD. From October 1993 to September 1994, measuring point was 13.81 ft above NGVD. From October 1980 to September 1993, measuring point was top of casing, 12.89 ft above NGVD. Prior to October 1980, top of casing was 10.71 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 10.6 ft above NGVD.

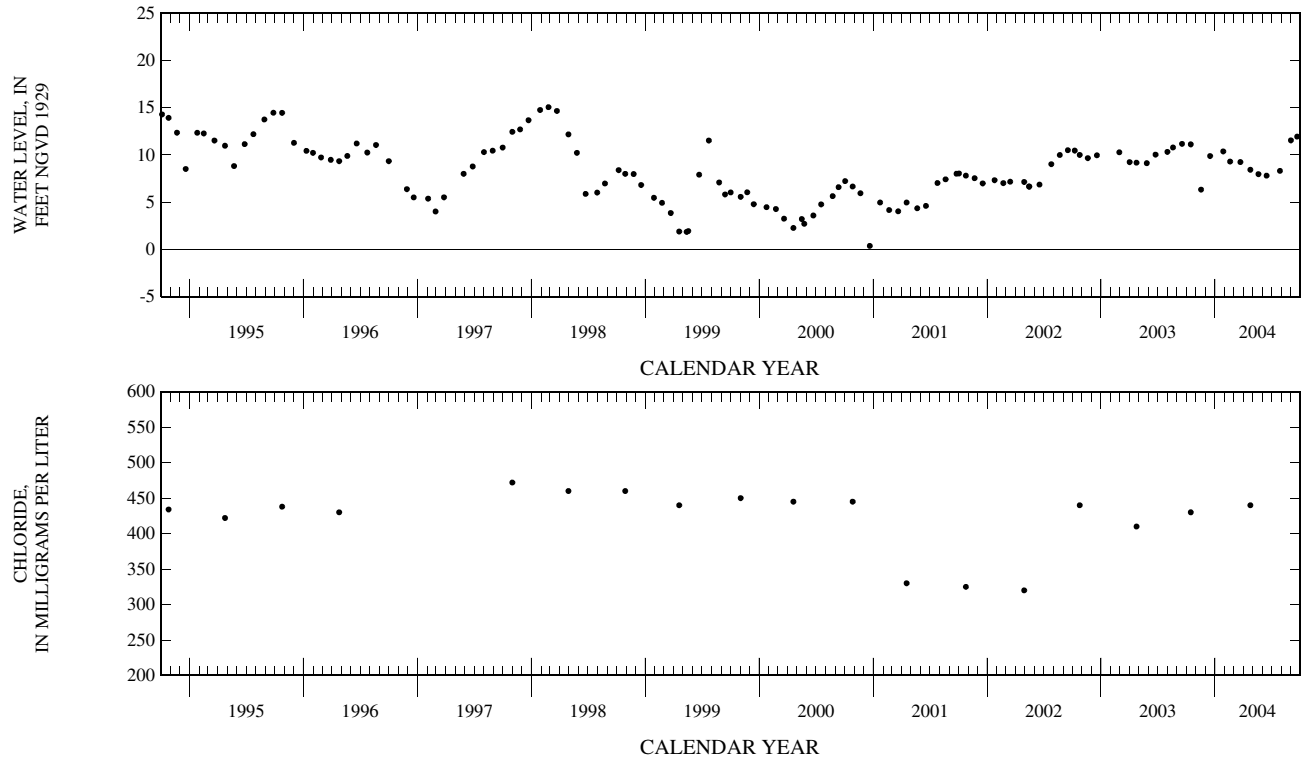
REMARKS.--Well is also used for salinity monitoring until September 2004. The well was originally open to the aquifer from depth of 156 to 189 ft. The open-hole portion of the well has collapsed or become obstructed. Chloride concentration samples are being collected from a depth of 156 ft. Records of 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. See DATUM.

PERIOD OF RECORD.--May 1970 to December 1974 (bimonthly), January 1975 to current year.

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-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
15...	0817	11.12	1,701	430
NOV				
17...	1439	6.33	--	--
DEC				
16...	1044	9.88	--	--
JAN				
27...	0847	10.37	--	--
FEB				
18...	1429	9.30	--	--
MAR				
22...	1517	9.25	--	--
APR				
23...	1243	8.43	1,758	440
MAY				
19...	1317	7.97	--	--
JUN				
14...	1348	7.81	--	--
JUL				
27...	0859	8.32	--	--
AUG				
31...	1526	11.54	--	--
SEP				
20...	1150	11.94	--	--



LEE COUNTY—Continued

WELL NUMBER.--264517082022102. Local Number L 2526.

LOCATION.--Lat 26°45'14", long 82°02'18", in NE $^1/_4$ NE $^1/_4$ sec.7, T.43 S., R.23 E., Hydrologic Unit 03100103, 48 ft west of State Road 765, 8 mi north of State Road 78, and 8.8 mi northeast of Matlacha Post Office.

AQUIFER.--Lower Hawthorn aquifer of Oligocene to Miocene Age, Geologic Unit 122 LMSN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 605 ft, cased to 300 ft, open hole 300 to 605 ft.

INSTRUMENTATION.--Monthly measurement with pressure gage.

DATUM.--Measuring point: Top of casing, 12.06 ft above National Geodetic Vertical Datum of 1929. From November 23, 1999 to April 2003, measuring point was 13.54 ft above NGVD. From September 28, 1999 to November 22, 1999, measuring point was top of bucket, 11.64 ft above NGVD. From September 1997 to September 1999, measuring point was top of faucet, 13.61 ft above NGVD. From October 1990 to September 1997, measuring point was top of bushing, 13.63 ft above NGVD. From October 1982 to September 1990, measuring point top of casing, 13.64 ft above NGVD. Prior to October 1982, top of casing was 12.81 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 10.7 ft above NGVD.

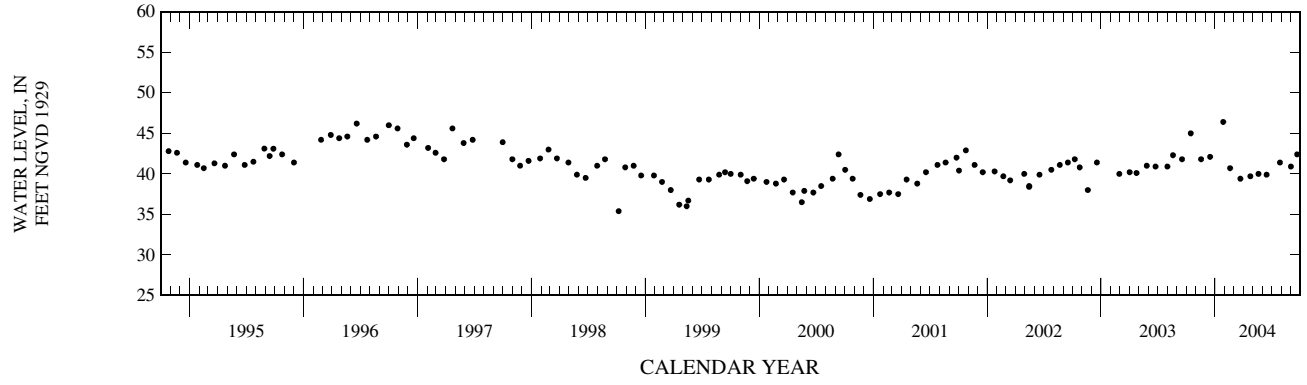
REMARKS.--Records of water levels prior to October 1978 are available in files of the U.S. Geological Survey. Site was repaired and releveled in April 2003.

PERIOD OF RECORD.--January 1978 to September 1993 (monthly), October 1993 to September 1994 (intermittent), October 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 46.4 ft NGVD, Jan. 27, 2004; lowest, 35.4 ft NGVD, Oct. 7, 1998.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
15...	0823	45.0	23...	1319	39.7
NOV			MAY		
17...	1444	41.8	19...	1313	40.0
DEC			JUN		
16...	1040	42.1	14...	1352	39.9
JAN			JUL		
27...	0849	46.4	27...	0905	41.4
FEB			AUG		
18...	1435	40.7	31...	1529	40.9
MAR			SEP		
22...	1520	39.4	20...	1200	42.4



LEE COUNTY—Continued

WELL NUMBER.--264537081552202. Local Number L 2646.

LOCATION.--Lat 26°45'37", long 81°55'21", in NW $^1/_4$ SW $^1/_4$ sec.4, T.43 S., R.24 E., Hydrologic Unit 03100103, at intersection of Lakeville Drive and Dalewood Road, 14 ft east of Dalewood Road, 20 ft south of Lakeville Drive, 0.2 mi east of U.S. Highway 41, and 6.9 mi northwest of North Fort Myers Post Office.

AQUIFER.--Mid-Hawthorn aquifer of the Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 220 ft, cased to 170 ft, open hole 170 to 220 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 23.41 ft above National Geodetic Vertical Datum of 1929. From October 1995 to September 1997, measuring point was incorrectly considered to be 23.16 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 20.8 ft above NGVD.

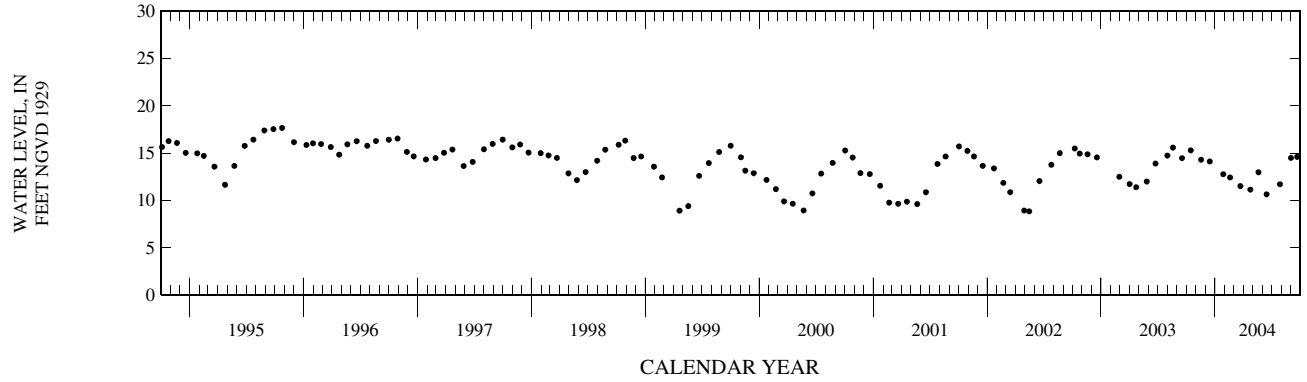
REMARKS.--Records of water levels prior to October 1978 are available in files of the U.S. Geological Survey. The figures of water levels, as elevation in feet NGVD, for the period October 1995 to September 1997 are in error. A correction of + 0.25 ft has been applied to correct water-level data. See DATUM.

PERIOD OF RECORD.--May 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.36 ft NGVD, Sept. 28, 1978; lowest, 8.86 ft NGVD, May 15, 2002.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
15...	0719	15.31	23...	1549	11.15
NOV			MAY		
17...	1413	14.31	19...	1346	12.99
DEC			JUN		
15...	1459	14.13	14...	1441	10.66
JAN			JUL		
27...	0934	12.78	27...	1503	11.72
FEB			AUG		
18...	1439	12.44	31...	1553	14.51
MAR			SEP		
22...	1453	11.53	20...	1114	14.62



LEE COUNTY—Continued

WELL NUMBER.--264608081454101. Local Number L 2216.

LOCATION.--Lat 26°46'09", long 81°45'41", in NE $^1/_4$ NE $^1/_4$ sec.1, T.43 S., R.25 E., Hydrologic Unit 03090205, west side of State Road 31 at Lee/Charlotte County Line, and 10.0 mi northwest of Alva Post Office.

AQUIFER.--Sandstone aquifer of the Miocene Age, Geologic Unit 122 SNDS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 150 ft, cased to 130 ft, screened 130 to 150 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 28.46 ft above National Geodetic Vertical Datum of 1929. Prior to October 2000, top of casing was considered to be 28.61 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 26.3 ft above NGVD.

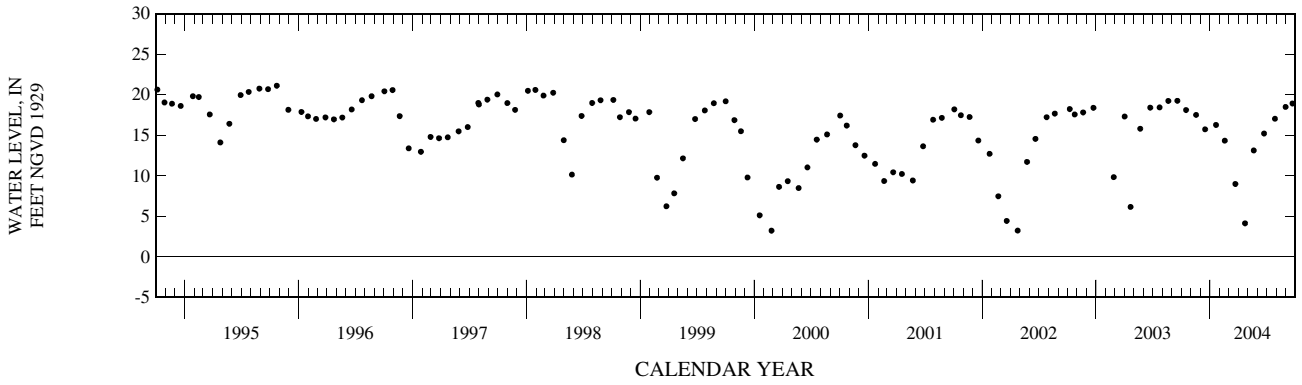
REMARKS.--Well was also used for salinity monitoring, May 1981 to January 2000.

PERIOD OF RECORD.--October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.16 ft NGVD, Oct. 6, 1992; lowest, 3.24 ft NGVD, Feb. 25, 2000.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
16...	1146	18.12	22...	1220	4.14
NOV			MAY		
17...	0956	17.52	20...	1136	13.13
DEC			JUN		
16...	1009	15.74	22...	0855	15.22
JAN			JUL		
20...	0850	16.28	27...	0916	17.04
FEB			AUG		
17...	0815	14.34	30...	1158	18.50
MAR			SEP		
22...	0840	9.00	21...	0829	18.93



LEE COUNTY—Continued

WELL NUMBER.--264608081454102. Local Number L 2217.

LOCATION.--Lat 26°46'09", long 81°45'41", in NE $^1/_4$ NE $^1/_4$ sec.1, T.43 S., R.25 E., Hydrologic Unit 03090205, west side of State Road 31 at Lee/Charlotte County Line, and 10.0 mi northwest of Alva Post Office.

AQUIFER.--Surficial aquifer of the Pleistocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 18 ft, cased to 10 ft, screened 10 to 18 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 28.63 ft above National Geodetic Vertical Datum of 1929.

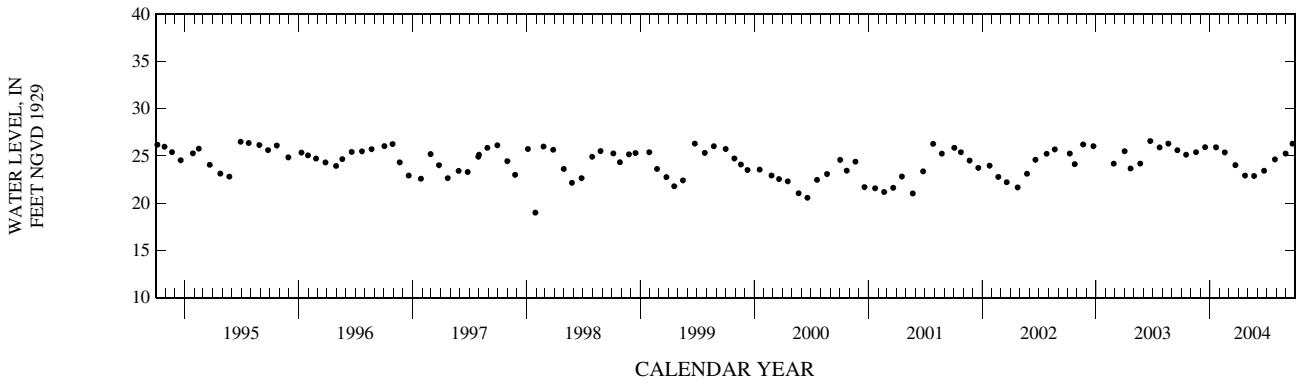
LAND-SURFACE DATUM.--Land surface is approximately 26.2 ft above NGVD.

PERIOD OF RECORD.--October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.75 ft NGVD, Aug. 30, 1977; lowest, 19.00 ft NGVD, Jan. 29, 1998.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			APR		
16...	1148	25.13	22...	1226	22.92
NOV			MAY		
17...	1000	25.39	21...	1145	22.88
DEC			JUN		
16...	1009	25.92	22...	0854	23.43
JAN			JUL		
20...	0845	25.91	27...	0922	24.63
FEB			AUG		
17...	0821	25.37	30...	1158	25.25
MAR			SEP		
22...	0854	24.03	21...	0830	26.29



LEE COUNTY-Continued

WELL NUMBER.--264608081454103. Local Number L 2328.

LOCATION.--Lat 26°46'09", long 81°45'41", in NE $^1/_4$ NE $^1/_4$ sec.1, T.43 S., R.25 E., Hydrologic Unit 03090205, west side of State Road 31 at Lee/Charlotte County Line, and 10.0 mi northwest of Alva Post Office.

AQUIFER.--Lower Hawthorn aquifer of Oligocene to Miocene Age, Geologic Unit 122 LMSN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 600 ft, cased to 300 ft, open hole 300 to 600 ft.

INSTRUMENTATION.--Monthly measurement with pressure gage.

DATUM.--Measuring point: Top of 4 in. casing, 28.13 ft above National Geodetic Vertical Datum of 1929. Prior to October 2000, top of casing was considered to be 28.52 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 25.5 ft above NGVD.

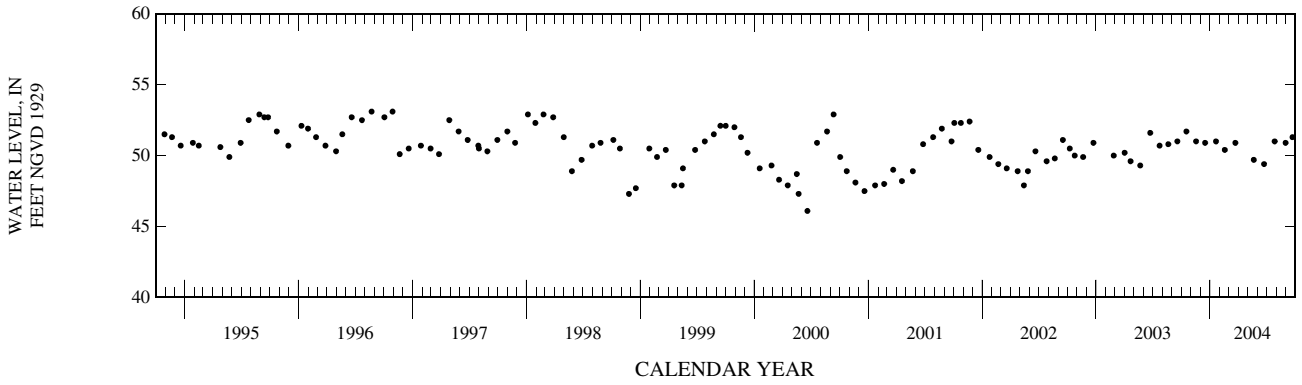
REMARKS.--Records of water levels prior to October 1982 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--September 1976 to September 1993 (monthly), October 1993 to September 1994 (intermittent), October 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 56.3 ft NGVD, July 31 and Oct. 31, 1979; lowest, 46.1 ft NGVD, June 19, 2000.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
OCT			MAY		
17...	0949	51.7	20...	1148	49.7
NOV			JUN		
17...	1001	51.0	22...	0851	49.4
DEC			JUL		
16...	1011	50.9	26...	0923	51.0
JAN			AUG		
20...	0847	51.0	30...	1158	50.9
FEB			SEP		
17...	0823	50.4	21...	0831	51.3
MAR					
22...	0858	50.9			



LEE COUNTY-Continued

MISCELLANEOUS WATER-LEVEL MEASUREMENTS

Station number		Local identifier	Latitude	Longitude	Date	Time	Specif. conduct-ance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
262513081472002	L	-5668R	26 25 13 N	081 47 20 W	10-16-03	1348	2680	740
			26 25 13 N	081 47 20 W	04-22-04	1520	2720	700
263125081511801	L	- 331	26 33 26 N	081 51 21 W	10-22-03	1300	2960	640
			26 33 26 N	081 51 21 W	04-19-04	1532	2940	660

Martin County

Key to site locations on figure # 18

MARTIN COUNTY

Index Number	Site Number	Well Name	Page Number
1	270835080105801	M 1004	386
2	265822080052701	M 1024	383
3	270124080280202	M 1048	384
4	265725080141801	M 1234	382
5	270913080284901	M 1255	387
6	270609080163401	M 1261	385

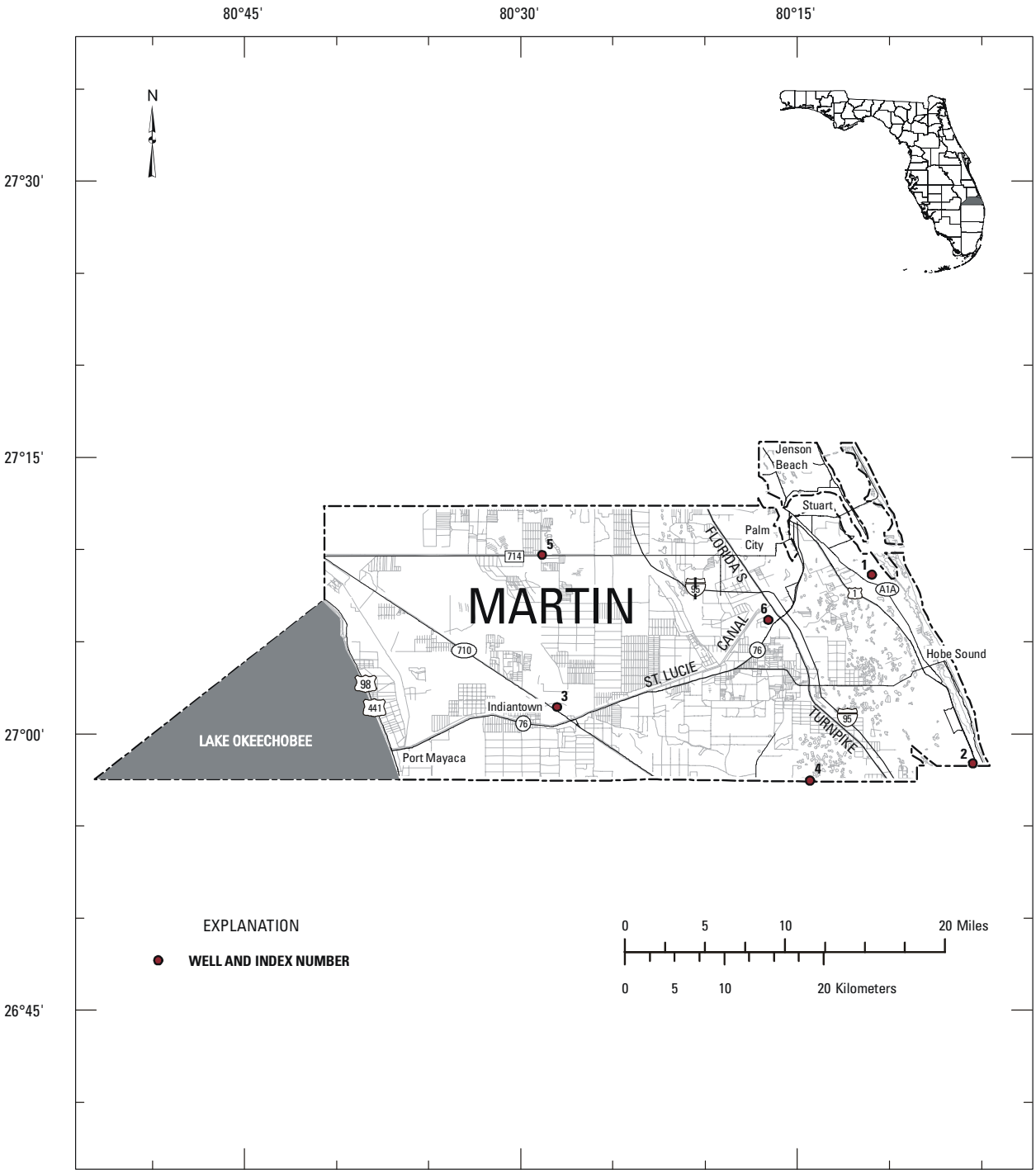


Figure 18. Location of wells in Martin County

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.

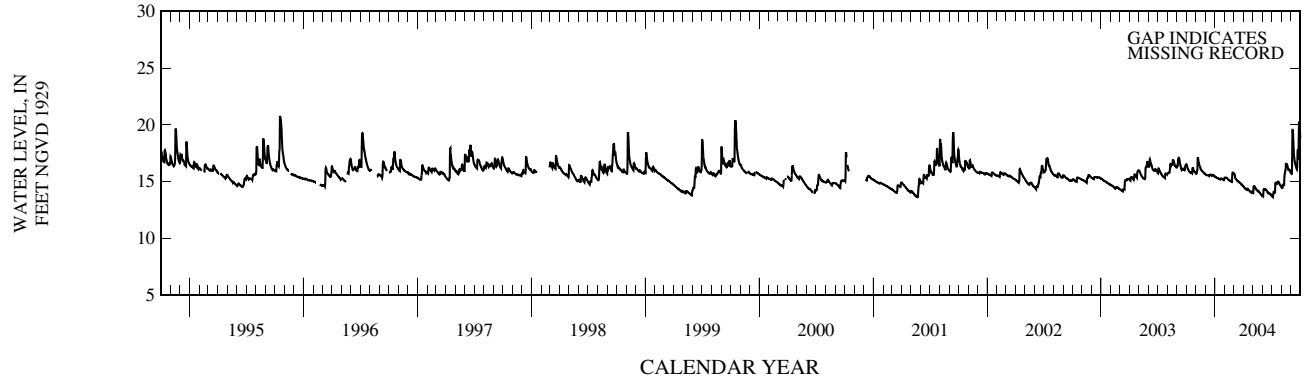
LAND-SURFACE DATUM.--Land surface is approximately 21.2 ft above NGVD.

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 $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ 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.

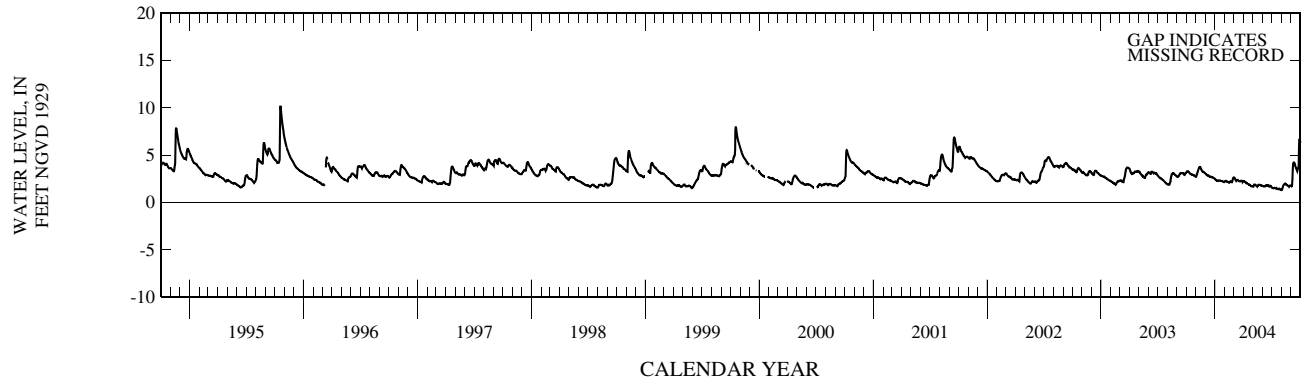
REMARKS.--Well is affected by pumping in area. The well was originally open to the aquifer from 80 to 83 ft. The casing interval has collapsed or become obstructed at a depth of 69 ft. The published figures of water level as elevation, in feet NGVD, from February 1993 to September 1993, are in error. 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 ¼ NE ¼ SE ¼ 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.

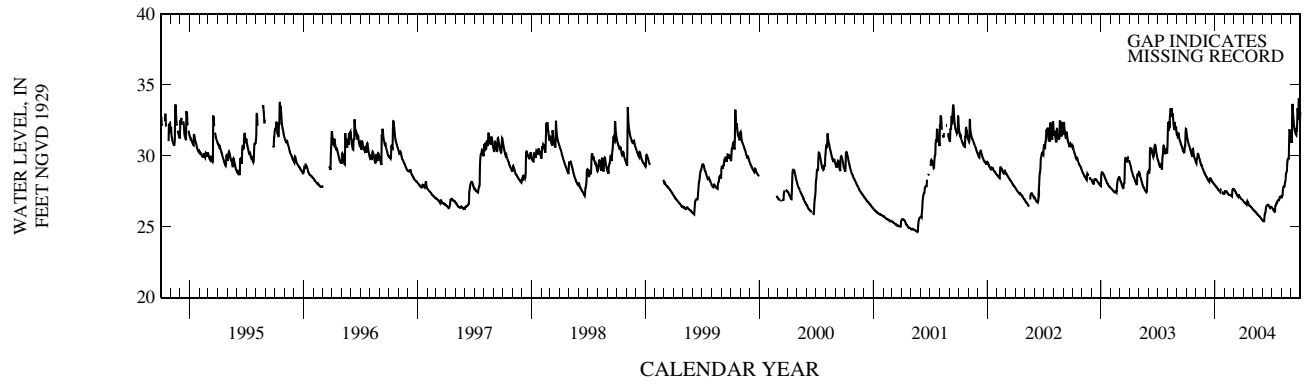
REMARKS.--The well was originally open to the aquifer from 25 to 80 ft. The open interval has collapsed or become obstructed at a depth of 23 ft. The figures of water levels as elevation, in feet NGVD, prior to October 1, 1990 are in error. A -0.22 ft correction is required to correct the data prior 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 ¼ SW ¼ SE ¼ 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.

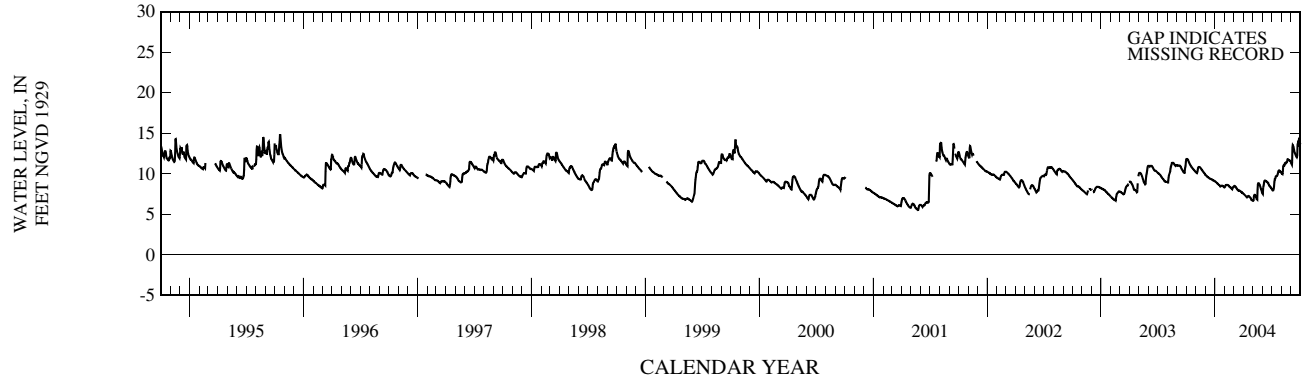
LAND-SURFACE DATUM.--Land surface is 14.9 ft above NGVD.

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 ¼ NE ¼ NW ¼ 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.

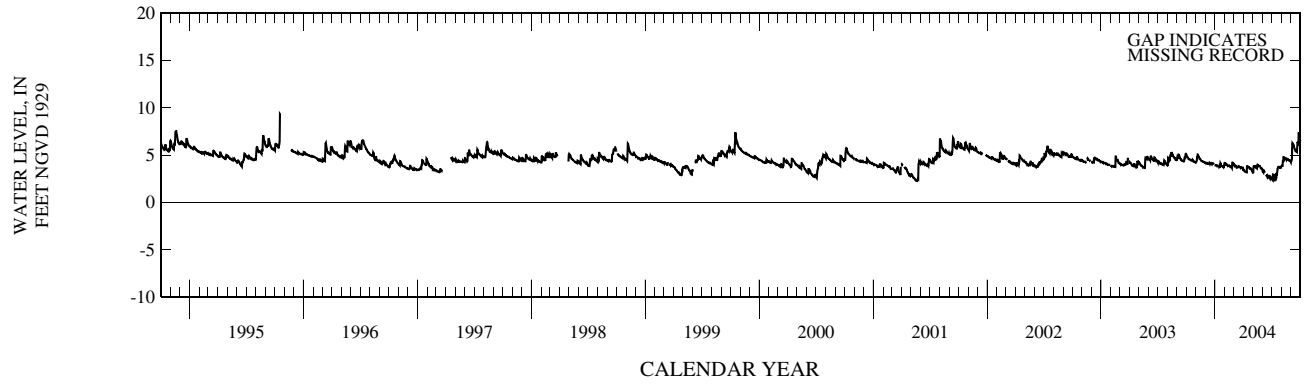
REMARKS.--Station reconstructed March 15, 1999.

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.

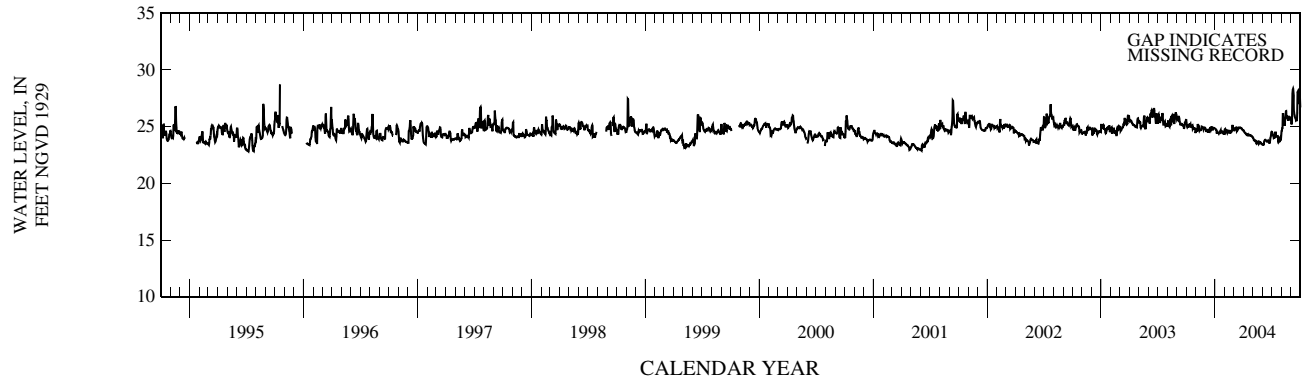
REMARKS.--Well located near agricultural area. Data logger installed January 13, 1993. See DATUM.

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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Miami-Dade County

Key to site locations on figure # 19

MIAMI-DADE COUNTY

Index Number	Site Number	Well Name	Page Number	Index Number	Site Number	Well Name	Page Number
1	254943080121501	F 45	509	66	254823080175201	G 3465	498
2	254444080144801	F 179	481	67	254834080171601	G 3466	502
3	255008080161801	F 239	515	68	254839080162301	G 3467	503
4	254217080171801	F 319	472	69	254248080263801	G 3473	474
5	252829080285101	F 358	409	70	252933080210001	G 3549	413
6	254950080180801	G 3	513	71	252906080213101	G 3550	410
7	254335080170501	G 432	476	72	254158080294501	G 3551	465
8	254855080163701	G 548	505	73	254138080284401	G 3552	461
9	254130080234501	G 551	460	74	254152080282101	G 3553	463
10	253902080202501	G 553	444	75	254152080274501	G 3554	462
11	254841080164401	G 571	504	76	254111080272501	G 3555	458
12	254000080181002	G 580A	447	77	254213080281501	G 3556	470
13	253937080304001	G 596	445	78	254112080294201	G 3557	459
14	252425080320001	G 613	400	79	254334080284401	G 3558	475
15	253258080264301	G 614	428	80	254445080295001	G 3559	482
16	254500080360001	G 618	485	81	254108080231301	G 3560	457
17	254000080460001	G 620	448	82	254022080263601	G 3561	451
18	253537080284401	G 757A	434	83	255112080151901	G 3562	522
19	252928080332401	G 789	412	84	254340080203601	G 3563	477
20	255437080103201	G 852	531	85	254917080143301	G 3564	507
21	254038080280201	G 855	452	86	254218080241801	G 3565	473
22	253718080192301	G 860	441	87	254951080194901	G 3566	514
23	252612080300701	G 864	402	88	255358080260901	G 3567	530
24	252619080310201	G 864A	403	89	254657080214401	G 3568	489
25	254107080165201	G 896	454	90	254536080172601	G 3570	486
26	254201080173001	G 901	466	91	255616080180301	G 3571	534
27	255600080270001	G 968	533	92	254432080240401	G 3572	479
28	255709080223701	G 970	540	93	254446080295501	G 3574	483
29	255209080212801	G 973	526	94	254206080294701	G 3575	467
30	255208080274001	G 975	525	95	254442080305201	G 3576	480
31	255023080202301	G 976	516	96	254207080300201	G 3577	468
32	254215080201503	G 1074B	471	97	254210080304801	G 3578	469
33	255344080195600	G 1166R	527	98	255626080093201	G 3600	537
34	252944080233401	G 1179	414	99	255358080114101	G 3601	528
35	252947080235301	G 1180	415	100	255116080120601	G 3602	523
36	252918080234201	G 1183	411	101	254722080152201	G 3604	491
37	251922080340701	G 1251	394	102	254629080143101	G 3605	487
38	254940080172001	G 1282	508	103	254108080170601	G 3608	455
39	254813080161501	G 1351	494	104	254005080171601	G 3609	449
40	254833080155801	G 1354	501	105	253710080184701	G 3611	439
41	263630080264801	G 1362	541	106	253457080195501	G 3612	432
42	253233080301001	G 1363	427	107	253214080215401	G 3613	423
43	254950080171202	G 1368A	512	108	253024080231001	G 3615	418
44	253012080261401	G 1486	417	109	252243080335501	G 3619	397
45	254054080295401	G 1487	453	110	252312080320301	G 3620	398
46	254830080284201	G 1488	499	111	252115080293701	G 3621	396
47	252656080350301	G 1502	406	112	252955080340701	G 3622	416
48	255707080255001	G 1637	539	113	253708080304201	G 3626	438
49	254157080214002	G 3074	464	114	253632080321101	G 3627	437
50	254457080160301	G 3229	484	115	253539080320501	G 3628	435
51	254946080172601	G 3250	510	116	254720080253002	G 3676	490
52	255027080245501	G 3253	519	117	252814080244101	G 3698	407
53	255026080240302	G 3259A	517	118	252652080244301	G 3699	404
54	255027080221602	G 3264A	518	119	253027080234701	G 3700	420
55	253952080321501	G 3272	446	120	253214080224601	G 3701	425
56	253831080180206	G 3313E	442	121	253334080213601	G 3702	429
57	254823080163701	G 3327	497	122	254822080125501	G 3704	495
58	254752080181501	G 3329	493	123	255625080094901	G 3705	535
59	252007080335701	G 3336	395	124	255035080255401	G 3760	520
60	251724080341401	G 3353	392	125	255035080255402	G 3761	521
61	251855080283401	G 3354	393	126	255526080143001	S 18	532
62	252332080300501	G 3355	399	127	254832080175001	S 19	500
63	252502080253901	G 3356	401	128	254857080171101	S 68	506
64	253400080340401	G 3437	431	129	253549080214101	S 182A	436
65	254421080260201	G 3439	478	130	253029080295601	S 196A	422

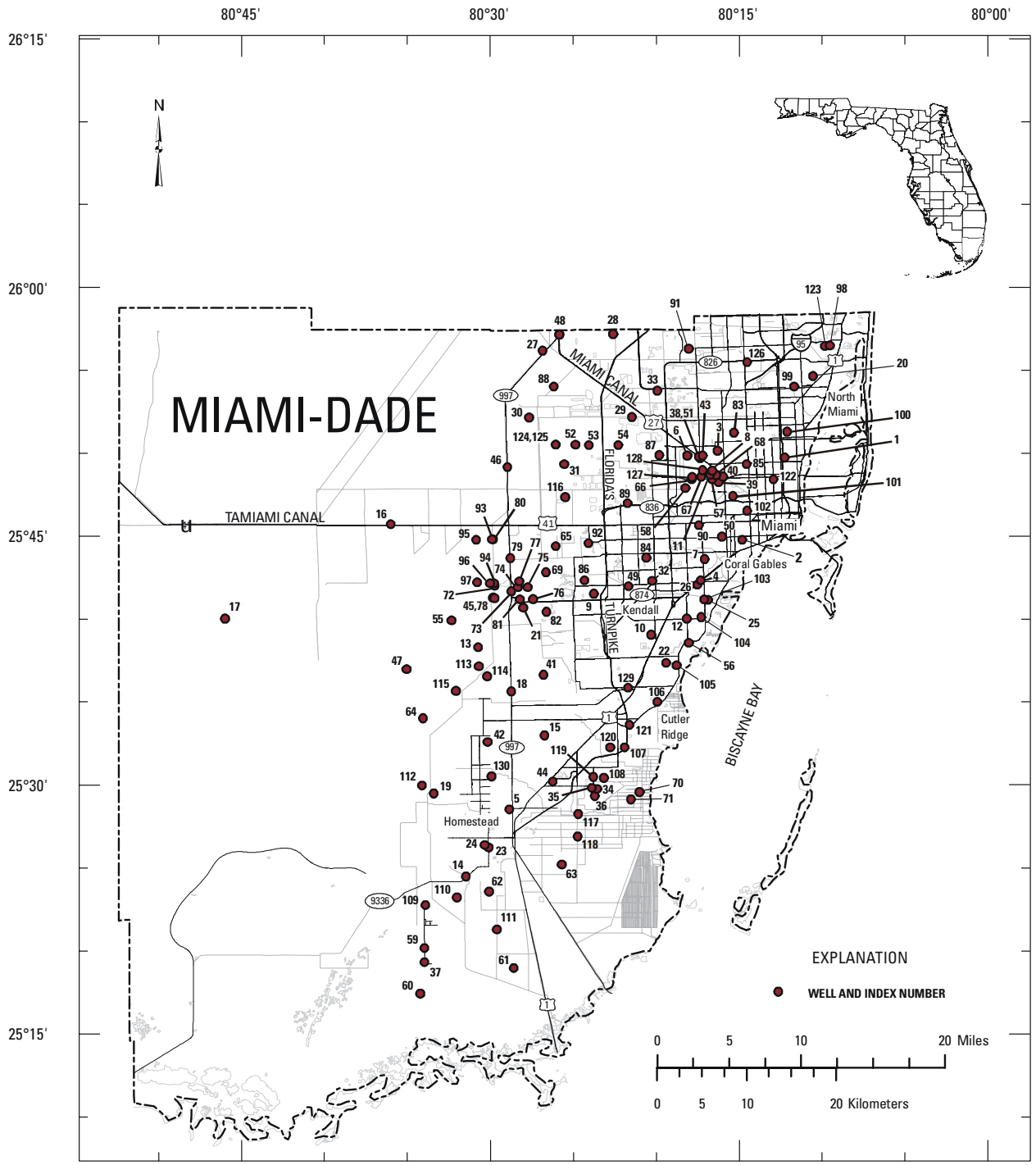


Figure 19. Location of wells in Miami-Dade County

MIAMI-DADE COUNTY

WELL NUMBER.--251724080341401. Local Number G 3353. USGS Observation Well near Florida City, FL.

LOCATION.--Lat 25°17'14", long 80°34'08", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.18, T.59 S., R.38 E., Hydrologic Unit 03090202, in C-111 drainage basin, 2.5 mi south of L-31W canal and 7 mi west of U.S. Highway 1, 12.5 mi southwest of Florida City. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 8 ft. (Corrected).

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 4.73 ft above National Geodetic Vertical Datum of 1929. Prior to July 11, 1997, measuring point was 4.71 ft above NGVD.

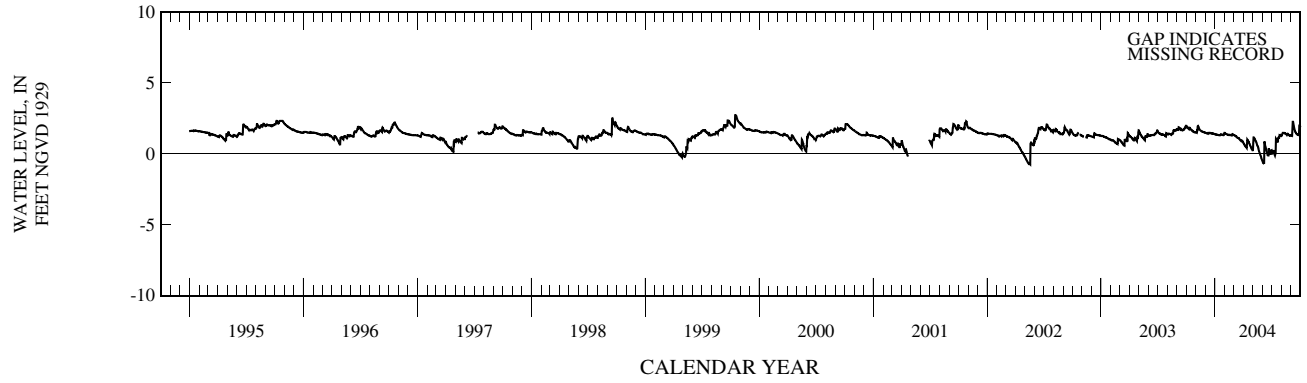
LAND-SURFACE DATUM.--Land surface is approximately 0.9 ft above NGVD.

PERIOD OF RECORD.--September 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 2.73 ft NGVD, Oct. 17, 1999; lowest, 0.84 ft below NGVD, May 18, 19, 2002.

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	1.87	1.67	1.46	1.36	1.41	1.28	0.61	1.12	-0.66	0.14	1.48	1.80
10	1.85	1.82	1.48	1.34	1.36	1.19	0.46	0.93	0.55	-0.05	1.47	1.88
15	1.73	1.65	1.49	1.32	1.35	1.12	0.94	0.60	0.12	1.05	1.42	1.52
20	1.63	1.58	1.46	1.38	1.33	1.01	0.73	0.27	-0.11	0.89	1.41	1.37
25	1.54	1.54	1.44	1.34	1.38	0.95	0.48	-0.09	0.08	1.29	1.32	1.33
EOM	1.52	1.50	1.39	1.48	1.34	0.82	0.27	-0.44	0.26	1.32	1.28	1.88
MAX	1.98	1.97	1.49	1.48	1.49	1.33	1.01	1.16	0.88	1.34	1.48	2.26



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--251855080283401. Local Number G 3354. USGS Observation Well near Florida City, FL.

LOCATION.--Lat 25°18'42", long 80°28'39", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.7, T.59 S., R.39 E., Hydrologic Unit 03090202, in C-111 drainage basin between C-109 and C-110 canals, 1.6 mi west of U.S. Highway 1 and 1.15 mi north of C-111 canal, 8.9 mi south of Florida City. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 8 ft. (Corrected).

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 7.27 ft above National Geodetic Vertical Datum of 1929. Prior to destruction of the well, August 24, 1992, top of base was 7.26 ft above NGVD. From September 1992 to September 1993, top of base was incorrectly considered to be 7.03 ft above NGVD. From October 1993 to September 1994, top of base was incorrectly considered to be 7.30 ft above NGVD. (Corrected).

LAND-SURFACE DATUM.--Land surface is approximately 1.2 ft above National Geodetic Vertical Datum of 1929. (Corrected).

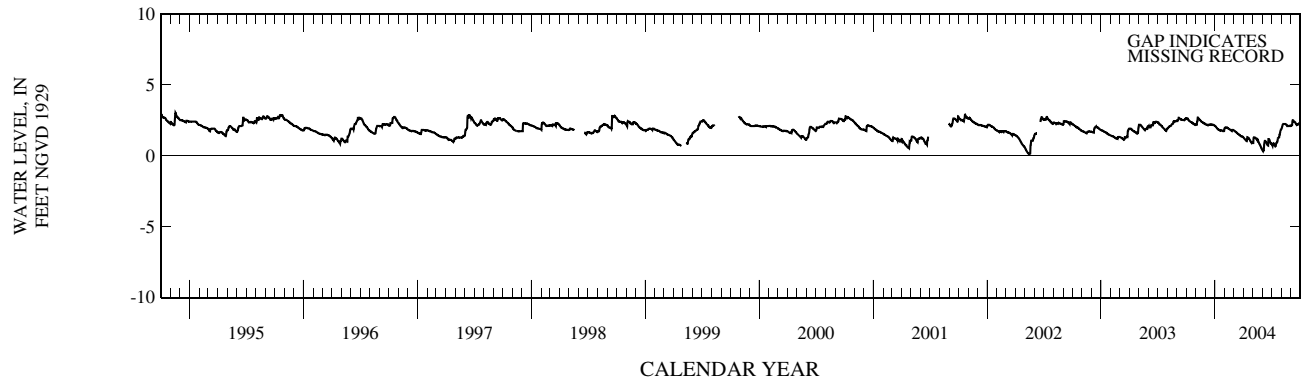
REMARKS.--The figures of water level as elevation, in feet NGVD, from September 1992 to September 1994 are in error. Revised records for 1993 and 1994 water years are in files of the U.S. Geological Survey. The figures of water level as elevation, in feet NGVD, from the period of September 3 to September 30, 2002, are in error due to a misapplication of the datum correction. Corrected records are in the files of the U.S. Geological Survey.

PERIOD OF RECORD.--September 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 3.24 ft NGVD, Aug. 15, 1988; lowest, 0.07 ft NGVD, May 18, 19, 2002.

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	2.62	2.43	2.19	2.00	2.01	1.72	1.19	1.31	0.40	0.88	2.22	2.43
10	2.47	2.60	2.19	1.88	1.96	1.65	1.06	1.25	1.05	0.75	2.25	2.40
15	2.39	2.50	2.20	1.81	1.89	1.54	1.29	1.12	0.85	0.88	2.22	2.31
20	2.31	2.39	2.22	1.81	1.81	1.45	1.18	0.95	1.19	1.23	2.10	2.23
25	2.26	2.31	2.20	1.76	1.83	1.39	0.98	0.71	1.02	1.48	2.13	2.24
EOM	2.22	2.26	2.13	1.91	1.82	1.33	0.94	0.45	0.85	1.88	2.14	2.24
MAX	2.65	2.70	2.23	2.10	2.01	1.80	1.30	1.31	1.19	1.88	2.25	2.51



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--251922080340701. Local Number G 1251. USGS Observation Well near Homestead, FL.

LOCATION.--Lat 25°19'16", long 80°33'58", in SE ¼ NE ¼ SW ¼ sec.6, T.59 S., R.38 E., Hydrologic Unit 03090202, 2.5 mi southwest of S-18-C, 5.5 mi south of State Road 9336 (Ingraham Highway), 7 mi west of U.S. Highway 1, and 11.0 mi southwest of Homestead. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 59 ft, cased to 5 ft.

REVISED RECORDS.--WDR FL-84-2B:1983.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 4.81 ft above National Geodetic Vertical Datum of 1929. From October 1, 1984 to October 1, 2003, top of base was incorrectly considered to be 4.79 ft NGVD. Prior to October 1, 1984, measuring point was incorrectly considered to be 4.99 ft NGVD. See REMARKS. (Corrected).

LAND-SURFACE DATUM.--Land surface is approximately 3.2 ft NGVD. (Corrected).

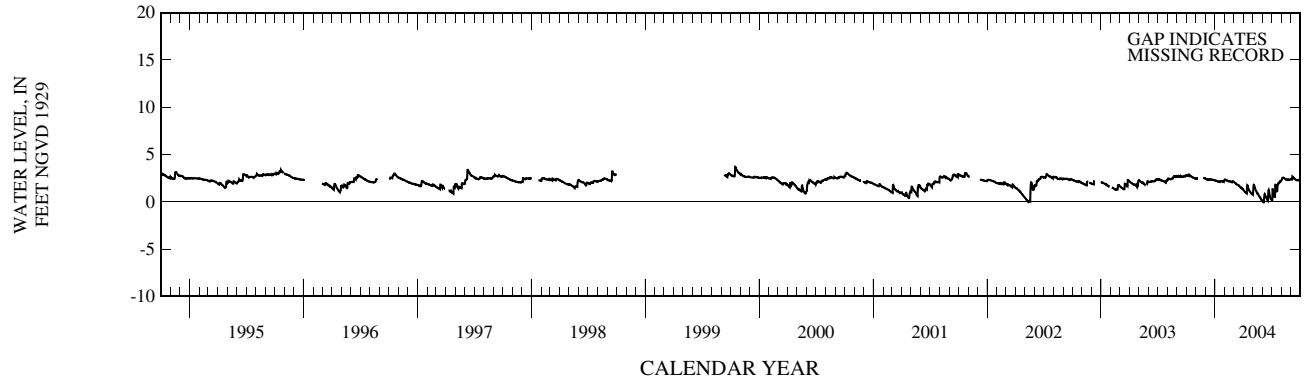
REMARKS.--Well was also used for salinity monitoring until October 1998. The figures of water level as elevation, in feet NGVD, prior to October 1, 2003 are in error. Corrected records prior to October 1984 are in files of the U.S. Geological Survey. The estimated error in water-level elevations from 1985 to 2003 is -0.02 ft. Because this is less than the published accurate of record no corrections have been applied. See DATUM. Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey. (Corrected).

PERIOD OF RECORD.--April 1965 to September 1998, September 1999 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 3.68 ft NGVD, Oct. 16, 1999; lowest, 1.76 ft below NGVD, May 30, 1965.

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	2.78	2.51	2.39	2.22	2.31	2.00	1.07	1.75	-0.05	1.11	2.54	2.68
10	2.87	---	2.37	2.16	2.24	1.87	0.93	1.26	0.66	0.51	2.49	2.50
15	2.72	---	2.37	2.11	2.18	1.77	1.57	0.91	0.34	1.31	2.37	2.35
20	2.60	---	2.37	2.21	2.13	1.63	1.17	0.67	1.16	1.81	2.32	2.28
25	2.53	2.54	2.34	2.14	2.17	1.46	0.94	0.40	0.53	2.07	2.37	2.28
EOM	2.45	2.47	2.27	2.32	2.15	1.30	0.79	0.11	0.26	2.20	2.38	2.26
MAX	2.87	---	2.47	2.32	2.36	2.12	1.76	1.80	1.23	2.20	2.55	2.68



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--252007080335701. Local Number G 3336. USGS Observation Well near Florida City, FL.

LOCATION.--Lat 25°20'15", long 80°33'57", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.31, T.58 S., R.38 E., Hydrologic Unit 03090202, 18 ft east of centerline of Aerojet Road and 66 ft southwest of Florida Power and Light power pole 491, 4.4 mi south of State Road 9336. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 38 ft.

INSTRUMENTATION.--Electronic data logger with pressure transducer.

DATUM.--Measuring point: Top of base, 8.04 ft above National Geodetic Vertical Datum of 1929. Prior to July 2, 2003, measuring point was top of casing, 4.53 ft above NGVD. (Corrected).

LAND-SURFACE DATUM.--Land surface is approximately 4.5 ft above NGVD.

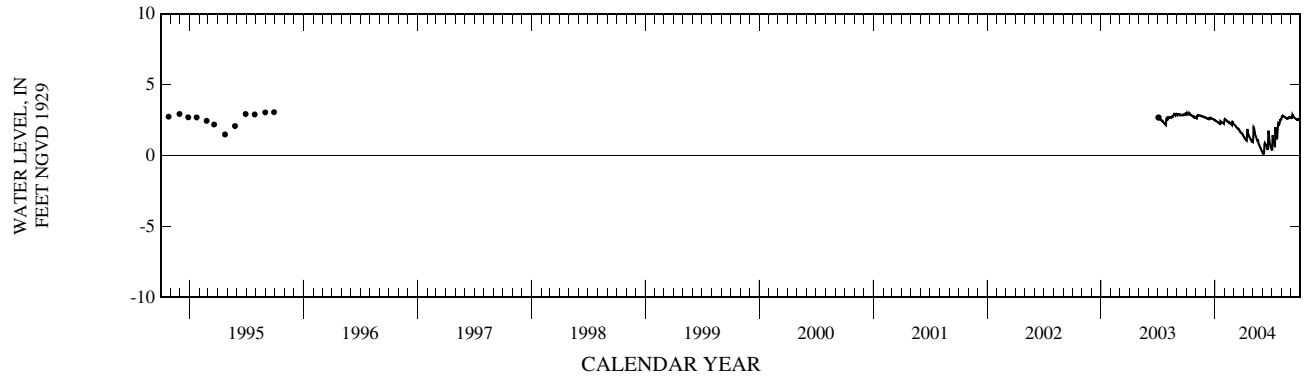
REMARKS.--Well was used for salinity monitoring until September 1995.

PERIOD OF RECORD.--November 1984 to April 1986 (monthly), February 1990 to September 1993 (quarterly), November 1993 to September 1995 (monthly), July 2003 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.68 ft NGVD, Sept. 24, 1985; lowest daily maximum water level, 0.11 ft above NGVD, June 4, 2004.

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	2.93	2.78	2.63	2.42	2.50	2.11	1.21	1.86	0.13	1.24	2.81	2.88
10	3.02	2.83	2.62	2.36	2.40	1.99	1.07	1.40	0.81	0.69	2.72	2.71
15	2.86	2.81	2.63	2.26	2.36	1.90	1.61	1.06	0.59	1.24	2.65	2.59
20	2.79	2.78	2.62	2.38	2.24	1.73	1.33	0.81	1.75	1.98	2.61	2.58
25	2.76	2.73	2.58	2.29	2.39	1.61	1.11	0.56	0.80	2.24	2.70	2.55
EOM	2.66	2.69	2.49	2.51	2.26	1.43	0.98	0.27	0.46	2.56	2.67	2.48
MAX	3.02	2.84	2.68	2.51	2.57	2.23	1.88	2.01	1.75	2.56	2.81	2.88



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--252115080293701. Local Number G 3621. USGS Observation Well near Florida City, FL.

LOCATION.--Lat 25°21'42", long 80°29'36", in SE $^1/_4$ NE $^1/_4$ sec.26, T.58 S., R.38 E., Hydrologic Unit 03090202, 2.0 mi southeast of S-18-C, 0.9 mi south of SW 424th Street, 1.85 mi west of U.S. Highway 1, on west side of C-110 Canal. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 10 in., depth 9 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of base, 6.56 ft above National Geodetic Vertical Datum of 1929.

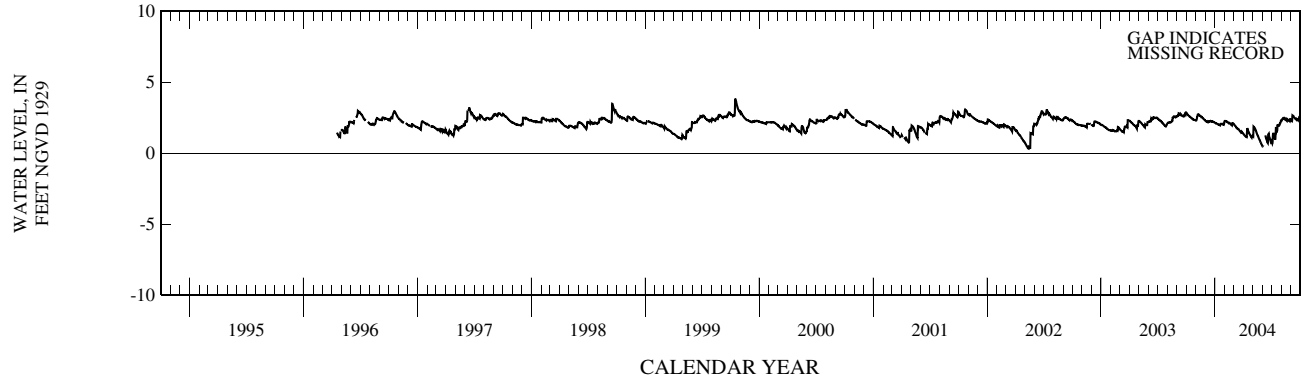
LAND-SURFACE DATUM.--Land surface is approximately 3.1 ft above NGVD.

PERIOD OF RECORD.--April 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 3.84 ft NGVD, Oct. 15, 1999; lowest, 0.30 ft above NGVD, May 18, 2002.

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	2.72	2.59	2.23	2.10	2.25	1.94	1.24	1.84	0.58	1.36	2.46	2.66
10	2.60	2.72	2.25	2.05	2.18	1.80	1.15	1.62	1.26	1.08	2.48	2.54
15	2.53	2.62	2.27	1.98	2.14	1.71	1.63	1.32	0.89	1.69	2.36	2.42
20	2.43	2.54	2.25	2.08	2.05	1.57	1.39	1.07	1.34	1.97	2.39	2.39
25	2.36	2.41	2.23	2.03	2.12	1.48	1.18	0.81	0.98	1.98	2.28	2.37
EOM	2.32	2.30	2.15	2.22	2.07	1.39	1.22	0.55	0.83	2.30	2.32	2.36
MAX	2.85	2.74	2.29	2.22	2.28	2.04	1.77	1.88	---	2.30	2.55	2.66



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--252243080335501. Local Number G 3619. USGS Observation Well near Homestead, FL.

LOCATION.--Lat 25°22'43", long 80°33'57", in SE ¼ NE ¼ SW ¼ sec.18, T.58 S., R.38 E., Hydrologic Unit 03090202, 1.5 mi south of State Road 9336 (Ingraham Highway) and 200 feet east of Aerojet Road, 1.0 mi east of entrance to Everglades National Park. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 10 in., depth 9 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of base, 6.41 ft above National Geodetic Vertical Datum of 1929.

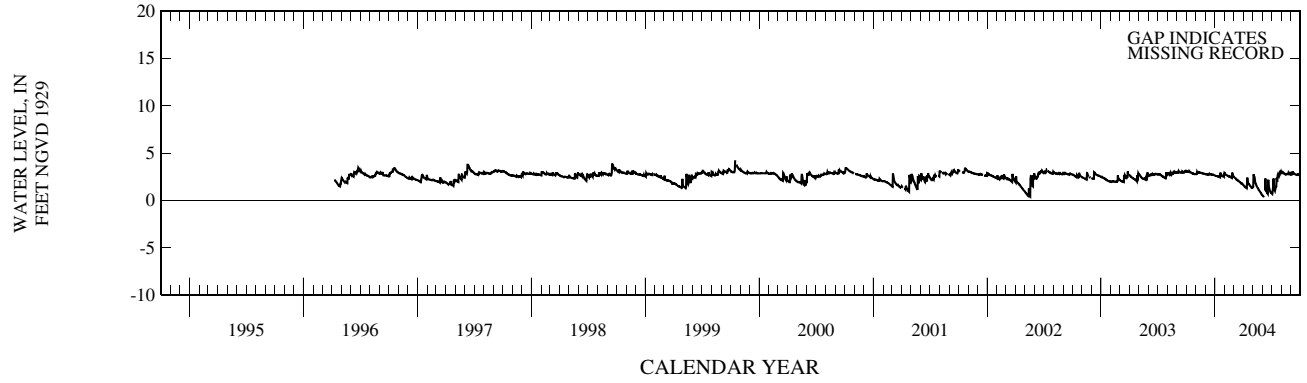
LAND-SURFACE DATUM.--Land surface is approximately 3.7 ft above NGVD. (Corrected).

PERIOD OF RECORD.--April 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 4.24 ft NGVD, Oct. 15, 1999; lowest, 0.44 ft NGVD, June 4, 2004.

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	3.04	2.94	2.77	2.59	2.72	2.37	1.47	2.57	0.47	1.41	2.98	3.09
10	3.10	2.98	2.79	2.56	2.61	2.22	1.34	1.81	2.32	1.10	2.82	2.84
15	2.97	2.94	2.80	2.48	2.57	2.11	1.92	1.40	0.88	1.47	2.76	2.76
20	2.87	2.90	2.75	2.71	2.46	1.95	1.67	1.13	2.19	2.72	2.80	2.71
25	2.81	2.84	2.74	2.57	2.96	1.81	1.44	0.87	1.03	2.64	2.81	2.79
EOM	2.82	2.80	2.65	2.94	2.56	1.66	1.37	0.58	0.76	2.90	2.79	2.72
MAX	3.11	3.02	2.84	2.95	2.96	2.51	2.43	2.77	---	3.15	3.12	3.09



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--252312080320301. Local Number G 3620. USGS Observation Well near Homestead, FL.

LOCATION.--Lat 25°23'12", long 80°32'02", in NE $^1/_4$ NE $^1/_4$ NW $^1/_4$ sec.16, T.58 S., R.38 E., Hydrologic Unit 03090202, 1.1 mi south of State Road 9336 (Ingraham Highway) and SW 217th Avenue, 4 mi west of U.S. Highway 1, and 2.0 mi east of entrance to Everglades National Park. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 10 in., depth 9 ft.

INSTRUMENTATION.--Satellite data collection platform

DATUM.--Measuring point: Top of base, 7.04 ft above National Geodetic Vertical Datum of 1929.

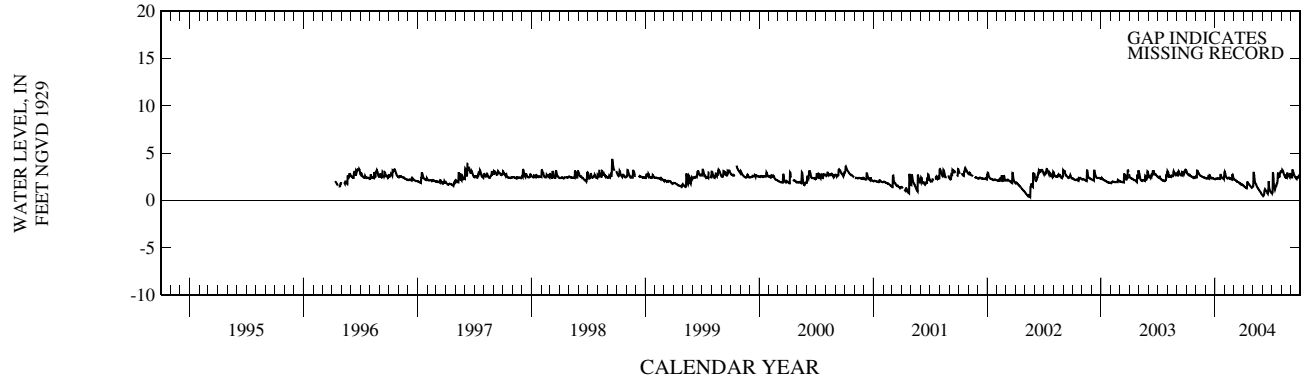
LAND-SURFACE DATUM.--Land surface is approximately 3.5 ft above NGVD. (Corrected).

PERIOD OF RECORD.--April 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 4.30 ft NGVD, Sept. 16, 17, 1998; lowest, 0.41 ft NGVD, May 13, 18, 2002.

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	2.82	3.14	2.36	2.34	2.57	2.17	1.44	2.64	0.54	2.78	3.12	3.21
10	2.75	2.85	2.52	2.34	2.37	2.06	1.31	1.79	1.14	1.24	2.72	2.71
15	2.56	2.62	2.67	2.28	2.41	1.96	1.87	1.44	0.89	1.55	2.39	2.41
20	2.46	2.54	2.37	2.63	2.28	1.83	1.66	1.16	1.23	2.85	2.87	2.47
25	2.49	2.45	2.36	2.35	2.72	1.68	1.44	0.89	1.05	2.49	2.59	2.58
EOM	2.55	2.39	2.26	2.93	2.35	1.60	1.44	0.60	0.85	3.08	2.56	2.52
MAX	3.14	3.16	2.68	2.93	3.05	2.25	1.94	2.94	2.05	3.08	3.25	3.21



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--252332080300501. Local Number G 3355. USGS Observation Well near Florida City, FL.

LOCATION.--Lat 25°23'35", long 80°30'05", in SW $^1/_4$ NW $^1/_4$ SE $^1/_4$ sec. 11, T.58 S., R.38 E., Hydrologic Unit 03090202, in C-111 drainage basin, 3.8 mi south of Palm Drive on SW 192nd Avenue, in the parking lot of the Everglades Alligator Farm, 2 mi west of U.S. Highway 1, and 4.1 mi southwest of Florida City. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 13 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of base, 7.73 ft above National Geodetic Vertical Datum of 1929.

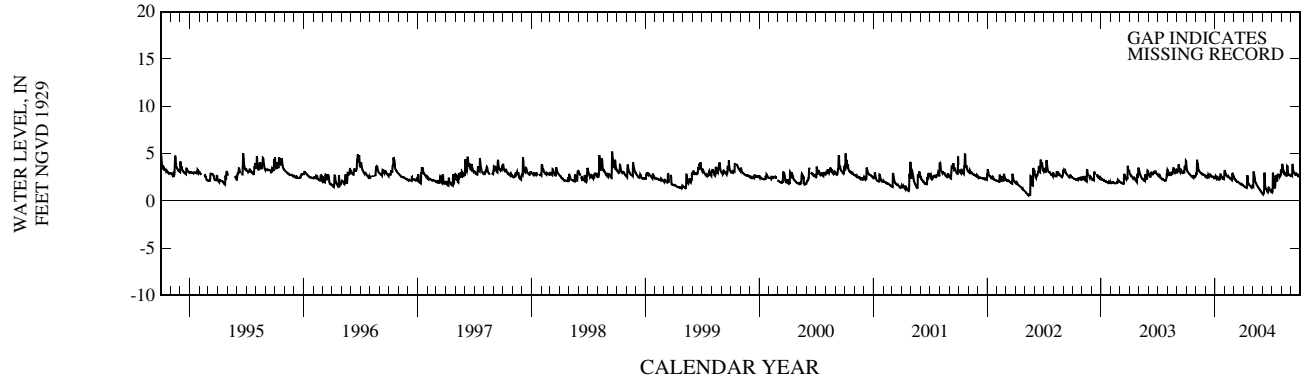
LAND-SURFACE DATUM.--Land surface is approximately 5.6 ft above NGVD.

PERIOD OF RECORD.--August 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 5.21 ft NGVD, Sept. 16, 1998; lowest, 0.54 ft NGVD, May 18, 2002.

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	3.11	3.91	2.62	2.34	2.82	2.24	1.48	2.75	0.84	2.69	3.45	3.91
10	2.86	3.19	2.78	2.37	2.58	2.06	1.38	1.95	1.47	1.41	3.02	2.96
15	2.68	2.99	2.80	2.53	2.43	1.99	1.95	1.61	1.10	2.35	2.74	2.77
20	2.54	2.88	2.66	2.63	2.35	1.85	1.70	1.33	1.33	2.76	3.67	2.83
25	2.64	2.75	2.51	2.33	2.85	1.74	1.47	1.08	1.16	2.54	2.73	2.68
EOM	2.65	2.63	2.50	3.02	2.50	1.64	1.53	0.80	1.03	3.23	2.65	2.62
MAX	3.57	4.35	2.80	3.02	3.25	2.56	2.70	3.10	2.98	3.23	3.90	3.91



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--252425080320001. Local Number G 613. USGS Observation Well near Florida City, FL.

LOCATION.--Lat 25°24'27", long 80°31'27", in NW $^1/_4$ SW $^1/_4$ in sec.3, T.58 S., R.38 E., Hydrologic Unit 03090202, on north side of SR 9336 (Ingraham Highway), and 4 mi southwest of Florida City.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 20.5 ft, cased to 17.9 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 9.29 ft above National Geodetic Vertical Datum of 1929 (converted from NAVD88 survey levels through VERTCON to NGVD 1929). From April 24, 1950 to July 6, 1995, the measuring point was top of casing, 9.22 ft above historic NGVD. Prior to October 2003, the top of base was considered to be 9.13 ft above historic NGVD and the top of casing was considered to be 9.06 ft above historic NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 7.1 ft above NGVD. (Corrected).

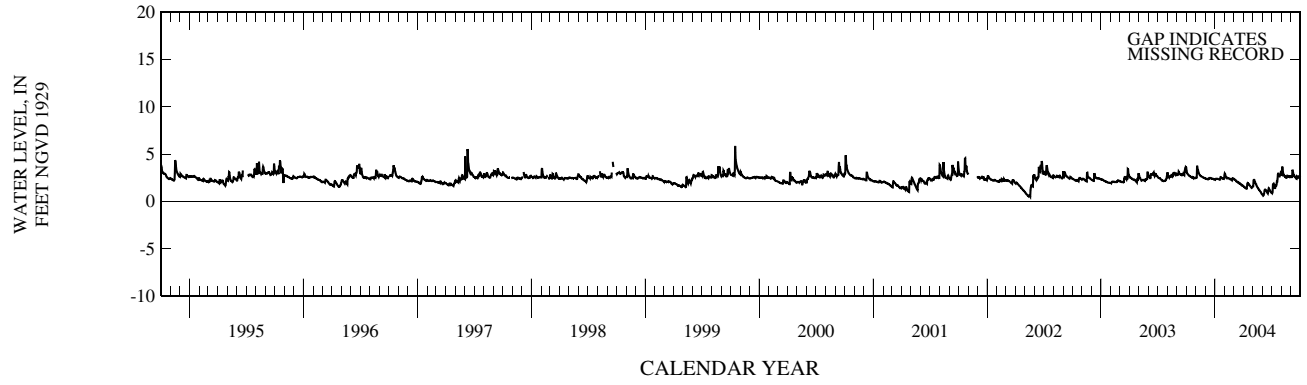
REMARKS.--On March 23, 2004, the station was resurveyed to a benchmark that provided a NGVD 1929 elevation reference determined from the North American Vertical Datum of 1988, using the VERTCON software of the National Geodetic Survey. The NGVD 1929 datum determined using VERTCON is known to differ from the historic NGVD 1929 elevation datum (historic NGVD). The measuring point for the station has been adjusted by 0.16 ft to the NGVD VERTCON elevation datum. The figures of water level as elevation for the period October 1974 to September 2003 have also been adjusted to NGVD VERTCON elevation datum and are available in the files of the U.S. Geological Survey. The figures of water levels as elevation, in feet historic NGVD, prior to October 1974 have not been adjusted.

PERIOD OF RECORD.--May 1950 to current year. (Corrected).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 6.27 ft NGVD, Sept. 23, 1960; lowest, 1.33 ft below NGVD, May 14, 1971. (Corrected).

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	2.92	3.57	2.40	2.41	2.57	2.29	1.49	2.29	0.69	1.85	3.16	3.36
10	2.71	2.95	2.41	2.39	2.49	2.13	1.37	1.91	1.24	1.46	2.72	2.75
15	2.61	2.73	2.49	2.34	2.44	2.05	1.93	1.55	1.02	1.71	2.53	2.51
20	2.51	2.62	2.44	2.57	2.33	1.92	1.76	1.28	1.27	2.86	2.74	2.64
25	2.53	2.52	2.41	2.41	2.37	1.74	1.53	1.05	1.17	2.66	2.64	2.56
EOM	2.51	2.44	2.31	2.77	2.38	1.64	1.57	0.75	0.96	3.15	2.63	2.68
MAX	3.31	3.78	2.50	2.77	2.97	2.37	1.95	2.29	1.42	3.15	3.69	3.36



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--252502080253901. Local Number G 3356. USGS Observation Well near Florida City, FL.

LOCATION.--Lat 25°25'07", long 80°25'41", in SW ¼ SW ¼ SW ¼ sec.34, T.57 S., R.39 E., Hydrologic Unit 03090202, on north side of dirt road approximately 200 ft northeast of Florida Power and Light power pole 267, 2.0 mi south of Palm Drive, and 1.0 mi west of Tallahassee Road, 3.7 mi southeast of Florida City. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 13 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of base, 5.09 ft above National Geodetic Vertical Datum of 1929.

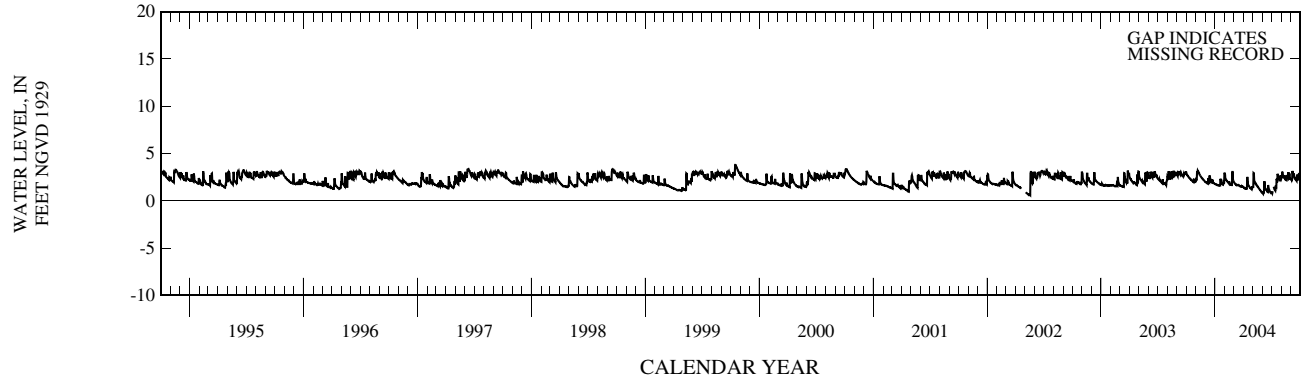
LAND-SURFACE DATUM.--Land surface is approximately 3.3 ft above NGVD. (Corrected).

PERIOD OF RECORD.--October 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 3.81 ft NGVD, Oct. 16, 1999; lowest, 0.60 ft NGVD, May 18, 2002.

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	2.66	2.96	1.92	1.72	2.23	1.80	1.32	2.16	0.90	---	2.67	3.16
10	2.44	2.97	2.41	1.68	2.01	1.67	1.26	1.79	1.30	1.21	2.41	2.60
15	2.25	2.64	2.57	1.62	2.04	1.69	1.79	1.56	1.05	1.38	2.24	2.26
20	2.11	2.40	1.99	1.97	1.71	1.56	1.49	1.33	1.40	2.76	2.63	2.69
25	2.25	2.20	1.98	1.72	3.06	1.51	1.28	1.09	0.97	2.21	2.67	2.66
EOM	2.23	2.03	1.79	2.87	2.06	1.49	1.42	0.87	0.90	2.31	2.25	2.87
MAX	2.89	3.20	2.69	2.87	3.06	2.00	2.53	2.94	2.08	---	3.09	3.16



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--252612080300701. Local Number G 864. USGS Observation Well near Florida City, FL.

LOCATION.--Lat 25°26'12", long 80°30'07", in SE ¼ NE ¼ SW ¼ sec.26, T.57 S., R.38 E., Hydrologic Unit 03090202, on SW 192nd Avenue, 0.8 mi south of SW 344th Street, and 2 mi southwest of Florida City. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

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

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 11.34 ft above National Geodetic Vertical Datum of 1929. Prior to October 1985, mesuring point was top of casing, 11.6 ft above NGVD. (Corrected).

LAND-SURFACE DATUM.--Land surface is approximately 8.9 ft above NGVD.

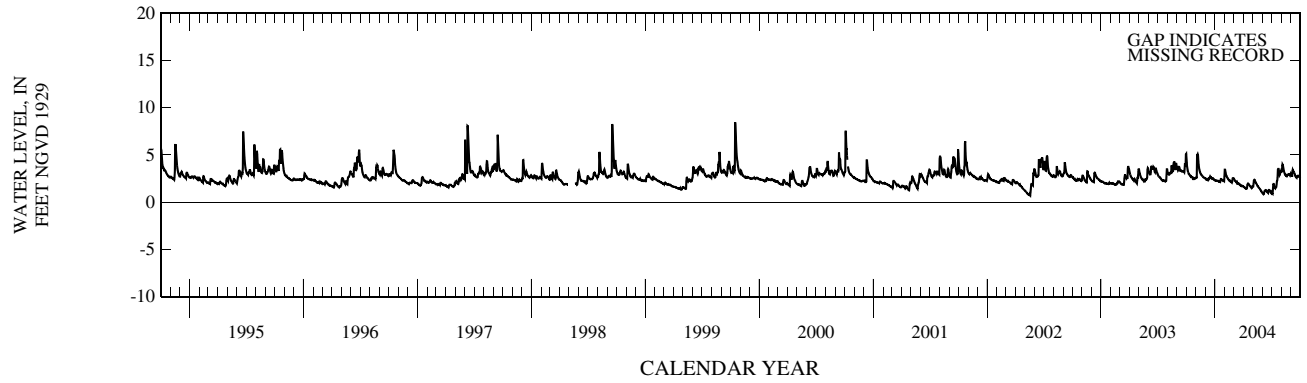
REMARKS.--Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--April 1959 to current year. (Corrected).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.45 ft NGVD, Oct. 15, 1999; lowest, 1.20 ft below NGVD, May 13, 1971.

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	3.41	5.00	2.42	2.28	2.95	2.26	1.56	2.36	0.87	1.83	3.93	3.26
10	2.95	3.70	2.44	2.23	2.54	2.07	1.42	2.13	1.26	1.58	3.13	3.13
15	2.70	3.08	2.65	2.16	2.31	2.00	1.96	1.79	1.14	1.61	2.82	2.67
20	2.62	2.82	2.57	2.44	2.18	1.88	1.79	1.53	1.21	3.43	2.86	2.78
25	2.48	2.63	2.49	2.27	2.16	1.72	1.58	1.30	1.20	2.95	2.94	2.71
EOM	2.58	2.52	2.30	2.72	2.54	1.67	1.65	1.02	1.03	3.36	2.92	2.71
MAX	4.64	5.06	2.73	2.72	3.44	2.51	1.96	2.37	1.29	3.53	3.99	3.43



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--252619080310201. Local Number G 864A. USGS Observation Well near Florida City, FL.

LOCATION.--Lat 25°26'20", long 80°30'31", in NW ¼ NW ¼ SW ¼ sec.26, T.57 S., R.38 E., Hydrologic Unit 03090202, near G-864, 0.5 mi west of SW 192nd Avenue, 0.6 mi south of SW 344th Street, and 2.1 mi southwest of Florida City. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 9 in., depth 20 ft, cased to 7 ft.

REVISED RECORDS.--WDR FL-85-2B:1982.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 9.35 ft above National Geodetic Vertical Datum of 1929. From January 1982 to December 1990 the measuring point was 9.40 ft above NGVD. Prior to January 1982 the measuring point was 9.79 ft above NGVD . From January 1982 to September 1984 the measuring point was alternately and incorrectly considered to be 9.79 ft or 9.74 ft above NGVD . From January 1982 to October 1981 measuring point was incorrectly considered to be 9.74 ft above NGVD. (Corrected). See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 8.3 ft above NGVD. (Corrected).

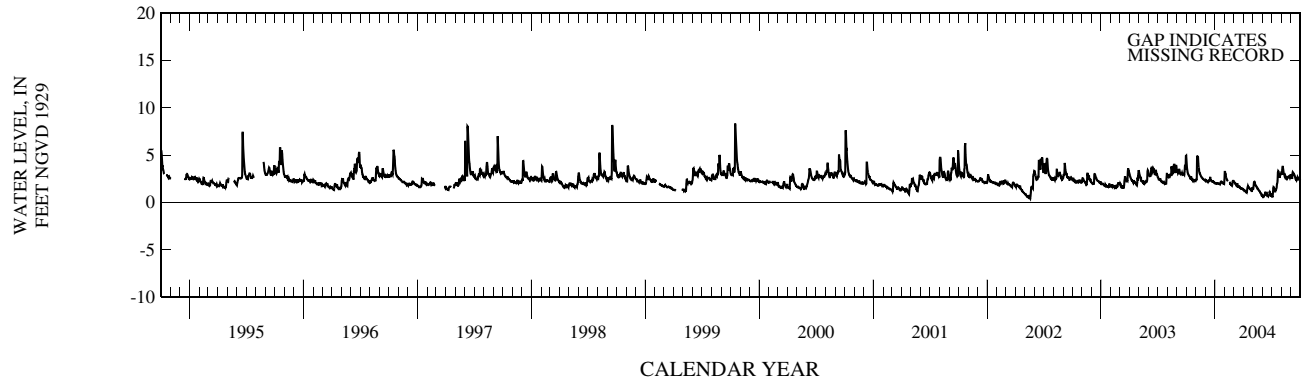
REMARKS.--The figures of water levels as elevation, in feet NGVD from October 1, 1981 to September 30, 1984 are in error. See DATUM. Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey. (Corrected).

PERIOD OF RECORD.--January 1972 to current year. (Corrected).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.41 ft NGVD, Aug. 18, 1981; lowest, 1.11 ft below NGVD, May 6, 1975.

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	3.19	4.89	2.29	2.04	2.69	2.01	1.29	2.18	0.62	1.47	3.78	3.03
10	2.82	3.53	2.26	2.02	2.29	1.76	1.09	1.86	1.15	1.30	2.88	2.96
15	2.43	2.94	2.43	1.95	2.04	1.70	1.76	1.50	0.79	1.39	2.61	2.46
20	2.38	2.61	2.31	2.22	1.92	1.63	1.54	1.28	0.85	3.19	2.63	2.57
25	2.25	2.45	2.27	2.09	1.91	1.47	1.29	1.05	0.95	2.71	2.78	2.50
EOM	2.41	2.37	2.04	2.41	2.30	1.41	1.40	0.68	0.96	3.14	2.76	2.51
MAX	4.48	4.95	2.71	2.41	---	2.25	1.76	2.19	---	3.33	3.79	3.21



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--252652080244301. Local Number G 3699. USGS Observation Well near Homestead, FL.

LOCATION.--Lat 25°26'52", long 80°24'43", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.23, T.57 S., R.39 E., Hydrologic Unit 03090202, 40 ft northeast of east bridge abutment north of SW 344th Street and 0.2 mi east of SW 137th Avenue.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 88 ft, cased to 83 ft, screened 83 to 88 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 5.80 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 5.8 ft above NGVD.

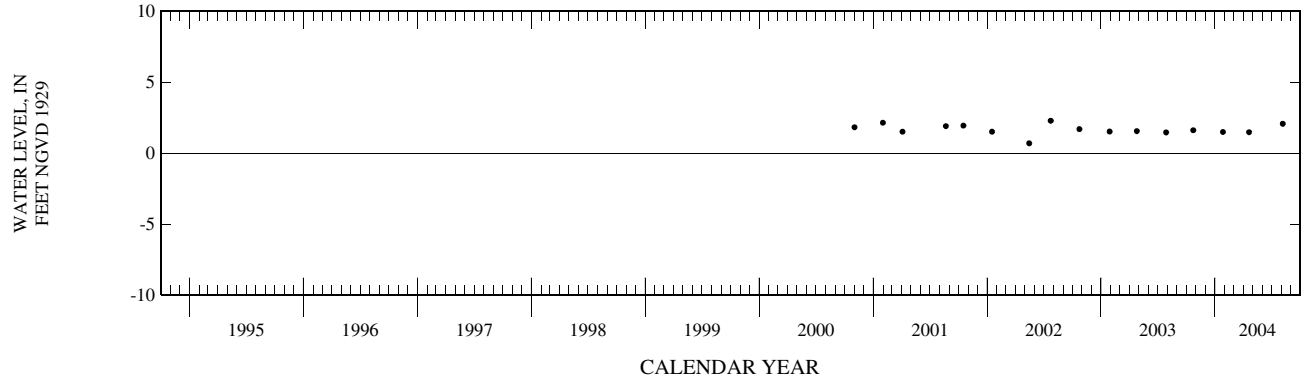
REMARKS.--Well is also used for annual salinity monitoring, including an annual induction log. Induction logs are used to assess the movement of the fresh-water/salt-water interface in ground water. See EXPLANATION OF THE RECORDS SECTION, RECORDS OF BULK CONDUCTIVITY in the front of the book. A calibration error was found to have affected some of the historical bulk conductivity logs. Bulk conductivity logs prior to the 2002 water year had been calibrated to a standard of 1,301 mS/m. For these calibrations an internal setting limited the probe response to 1,000 mS/m. Data for the affected years was corrected by applying a 0.7686 multiplier. Water-level measurements began in November 2000. Salinity monitoring began in October 2002.

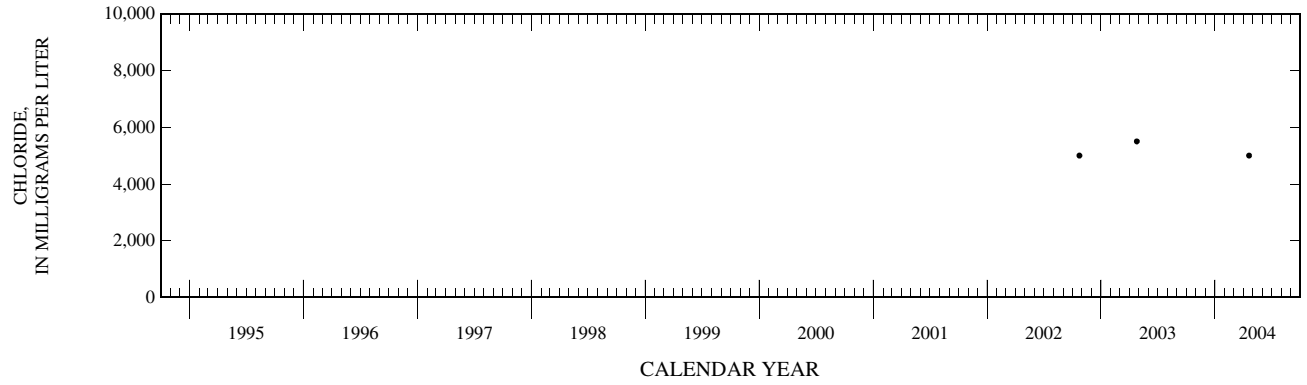
PERIOD OF RECORD.--April 2000 to current year. See REMARKS.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.29 ft NGVD, July 23, 2002; lowest, 0.70 ft NGVD, May 15, 2002.

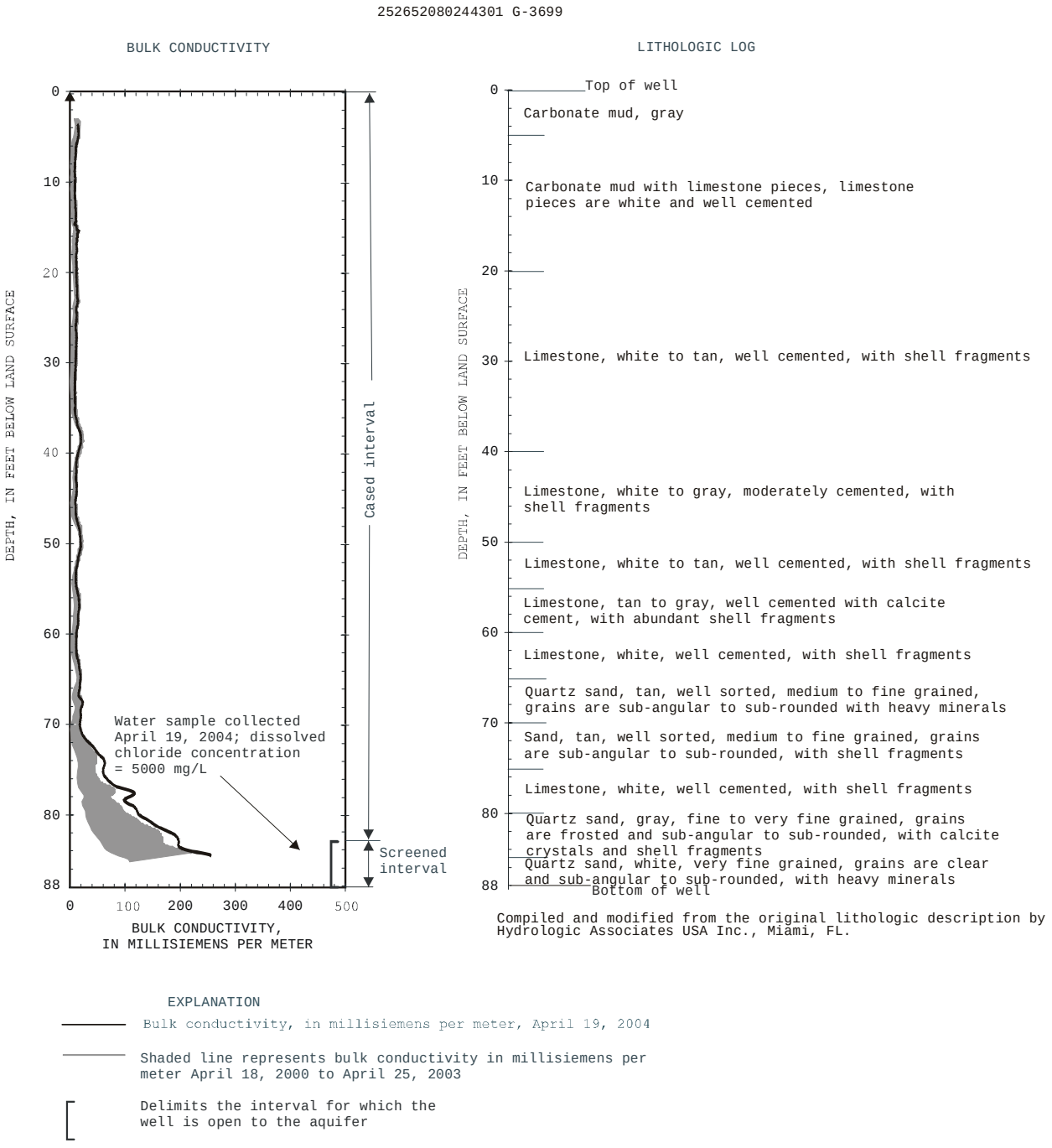
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
23...	1140	1.62	--	--
JAN				
26...	0807	1.50	--	--
APR				
19...	1439	1.48	18,700	5,000
AUG				
05...	0906	2.08	--	--





WELL NUMBER.--252652080244301. Local Number G 3699. USGS Observation Well near Homestead, FL.-Continued



Compiled and modified from the original lithologic description by Hydrologic Associates USA Inc., Miami, FL.

EXPLANATION

Bulk conductivity, in millisiemens per meter, April 19, 2004

Shaded line represents bulk conductivity in millisiemens per meter April 18, 2000 to April 25, 2003

Delimits the interval for which the well is open to the aquifer

MIAMI-DADE COUNTY—Continued

WELL NUMBER.--252656080350301. Local Number G 1502. USGS Observation Well near Homestead, FL.

LOCATION.--Lat 25°36'56", long 80°35'03", in NE $^1/_4$ SW $^1/_4$ sec.25, T.55 S., R.37 E., Hydrologic Unit 03090202, in Grossman Hammock, 11.5 mi northwest of Homestead.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 31 ft, cased to 11 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 9.00 ft above National Geodetic Vertical Datum of 1929. Prior to October 1, 2000, top of base was incorrectly considered to be 8.98 ft above NGVD. Prior to October 1992, measuring point was top of casing, 8.98 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 8.3 ft above NGVD.

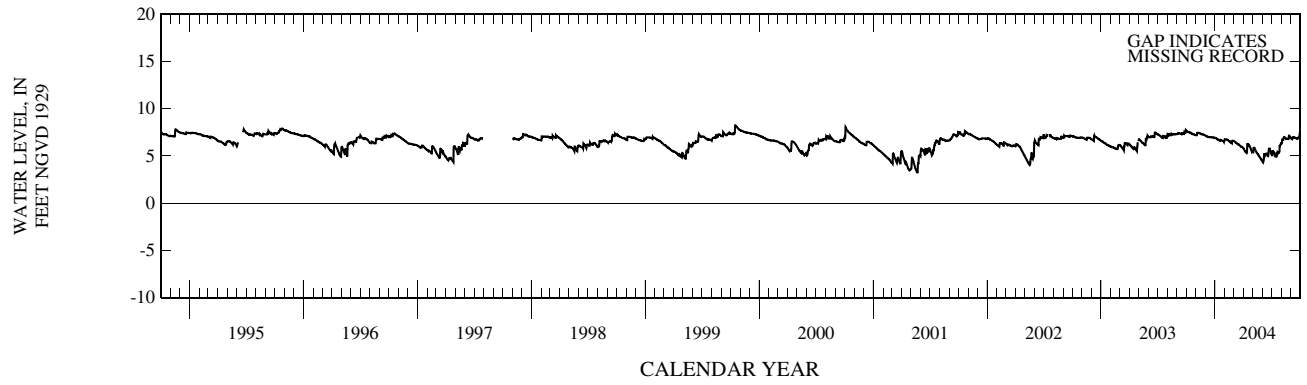
REMARKS.--Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey. The figures of water level as elevation in ft NGVD from October 1992 to September 2001 are in error. Because the error (-0.02 ft), is within the accuracy of the instrumentation, records have not been corrected. See DATUM.

PERIOD OF RECORD.--May 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.24 ft NGVD, Oct. 15, 16, 1999 (current datum); lowest, 0.49 ft NGVD, May 14, 1971.

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	7.55	7.39	7.07	6.85	6.76	6.47	5.56	5.86	4.62	5.39	6.71	6.92
10	7.51	7.43	7.00	6.74	6.68	6.35	5.33	5.57	5.09	5.17	7.00	6.96
15	7.41	7.36	6.98	6.64	6.57	6.23	6.27	5.27	5.23	5.26	6.83	6.89
20	7.33	7.30	6.98	6.67	6.41	6.11	6.07	5.02	5.16	5.42	6.80	6.81
25	7.26	7.25	6.96	6.58	6.60	5.96	5.73	4.76	5.64	5.43	7.23	6.91
EOM	7.20	7.17	6.91	6.60	6.59	5.84	5.47	4.50	5.17	6.31	6.89	7.25
MAX	7.67	7.45	7.14	6.90	6.76	6.57	6.27	5.86	5.77	6.31	7.23	7.27



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--252814080244101. Local Number G 3698. USGS Observation Well near Homestead, FL.

LOCATION.--Lat 25°28'14", long 80°24'41", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.14, T.57 S., R.39 E., Hydrologic Unit 03090202, at the northeast corner of the intersection of SW 137th Avenue and SW 320th Street.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 85 ft, cased to 80 ft, screened 80 to 85 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 5.82 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 5.8 ft above NGVD.

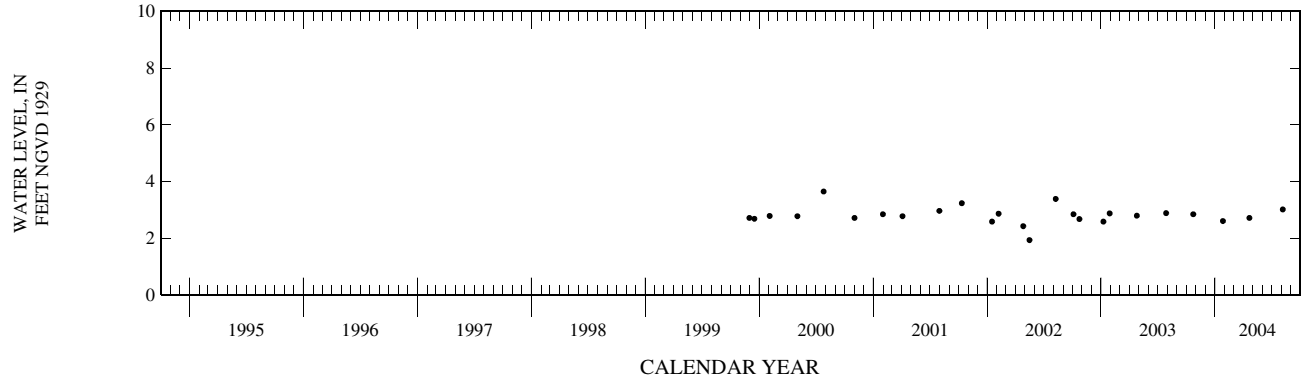
REMARKS.--Well is also used for salinity monitoring, including an annual induction log. Induction logs are used to assess the movement of the fresh-water/salt-water interface in ground water. See EXPLANATION OF THE RECORDS SECTION, RECORDS OF BULK CONDUCTIVITY in front of the book. A calibration error was found to have affected some of the historical bulk conductivity logs. Bulk conductivity logs prior to the 2002 water year had been calibrated to a standard of 1,301 mS/m. For these calibrations an internal setting limited the probe response to 1,000 mS/m. Data for the affected years was corrected by applying a 0.7686 multiplier. Salinity monitoring began in October 1999. Water-level measurements began in November 1999.

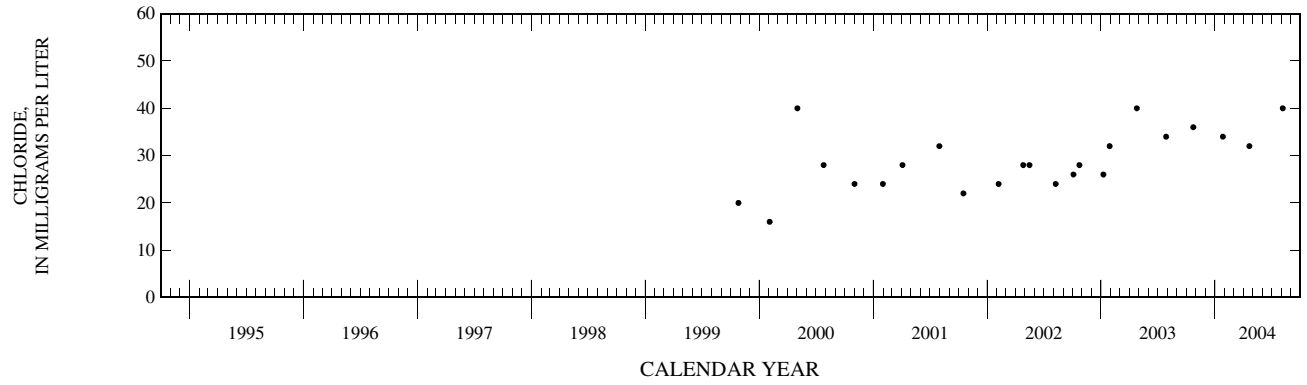
PERIOD OF RECORD.--October 1999 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.65 ft NGVD, July 25, 2000; lowest, 1.94 ft NGVD, May 16, 2002.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

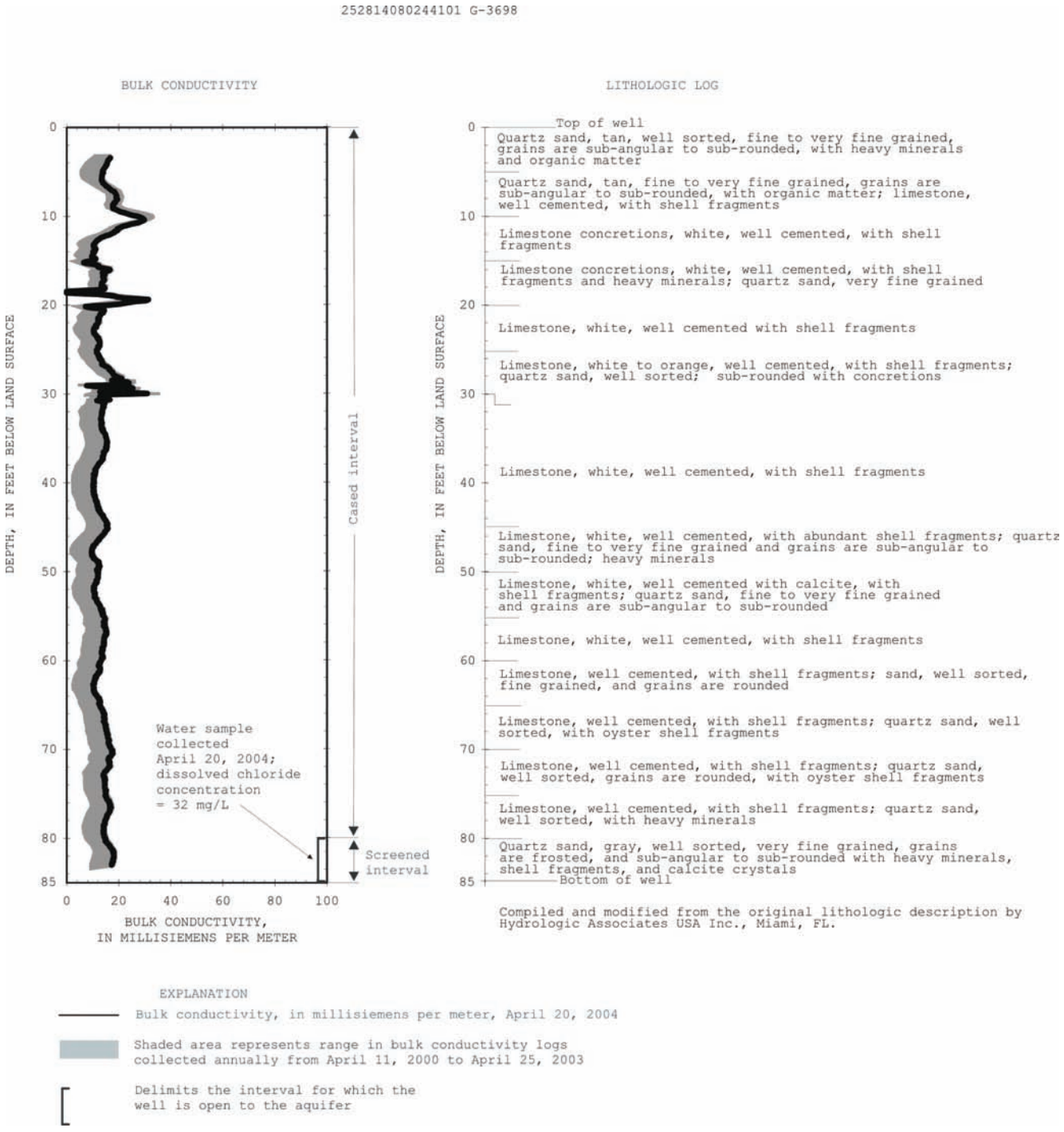
Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
23...	1153	2.85	375	36.0
JAN				
26...	0820	2.61	381	34.0
APR				
20...	1115	2.72	358	32.0
AUG				
05...	0918	3.02	403	40.0





MIAMI-DADE COUNTY—Continued

WELL NUMBER.--252814080244101. Local Number G 3698. USGS Observation Well near Homestead, FL-Continued



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--252829080285101. Local Number F 358. USGS Observation Well in Homestead, FL.

LOCATION.--Lat 25°28'29", long 80°28'51", in NE $^1/_4$ NE $^1/_4$ sec.13, T.57 S., R.38 E., Hydrologic Unit 03090202, near NW 6th Street and NW 2nd Avenue in Homestead, 0.2 mi west of State Road 997 (Krome Avenue). (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 54 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 9.01 ft above National Geodetic Vertical Datum of 1929. From December 1990 to February 15, 1991, top of base was 8.83 ft above NGVD. From February 29, 1984 to November 27, 1990, top of base was 8.99 ft above NGVD. From January 1962 to February 28, 1984, measuring point was 10.58 ft above NGVD. From May 1940 to December 1961 the measuring point was top of casing, 10.74 ft above NGVD. (Corrected).

LAND-SURFACE DATUM.--Land surface is approximately 8.3 ft above NGVD. (Corrected).

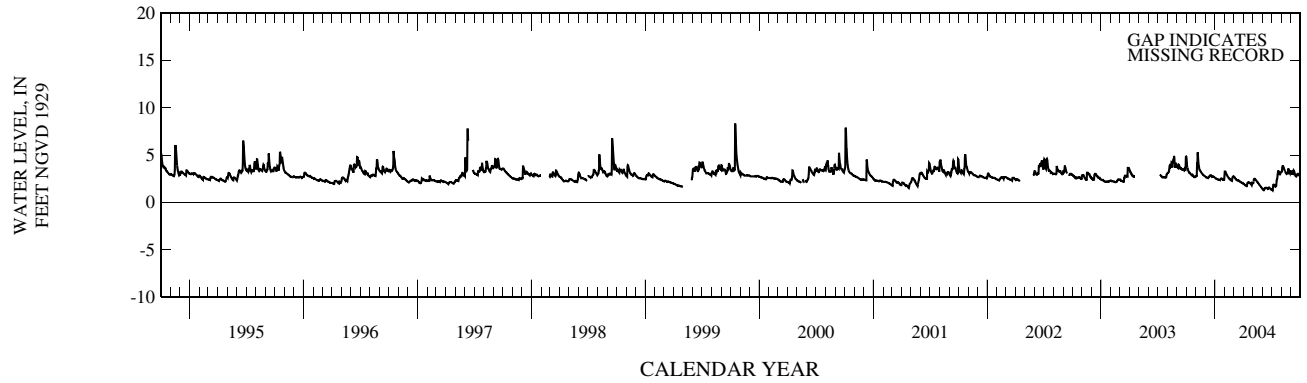
REMARKS.--Records of water levels prior to January 1957 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--May 1940 to current year. (Corrected).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.35 ft NGVD, Oct. 15, 1999; lowest, 1.18 ft below NGVD, June 13, 1971.

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	3.55	4.19	2.65	2.51	3.12	2.57	1.87	2.50	1.30	1.85	3.85	3.29
10	3.16	3.75	2.65	2.43	2.76	2.39	1.75	2.41	1.53	1.77	3.48	3.35
15	2.98	3.33	2.86	2.39	2.53	2.33	2.12	2.18	1.53	1.83	3.14	2.80
20	2.84	3.07	2.83	2.53	2.37	2.23	2.11	1.98	1.52	3.13	3.12	2.96
25	2.72	2.89	2.76	2.42	2.54	2.11	1.93	1.73	1.50	3.10	3.20	2.90
EOM	2.78	2.75	2.64	2.79	2.76	2.02	2.03	1.50	1.36	3.24	3.29	2.92
MAX	4.70	5.31	2.89	2.79	3.28	2.75	2.16	2.52	1.58	3.32	3.85	3.39



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--252906080213101. Local Number G 3550. USGS Observation Well near Homestead, FL.

LOCATION.--Lat 25°29'07", long 80°21'30", in SW ¼ SE ¼ NW ¼ sec.8, T.57 S., R.40 E., Hydrologic Unit 03090202, east of Homestead Air Force Base on SW 304th Street (Kings Highway), 0.5 mi east of SW 107th Avenue, 7.5 mi east of Homestead. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 13 ft, cased to 8 ft, screened 8 to 13 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 5.79 ft above National Geodetic Vertical Datum of 1929.

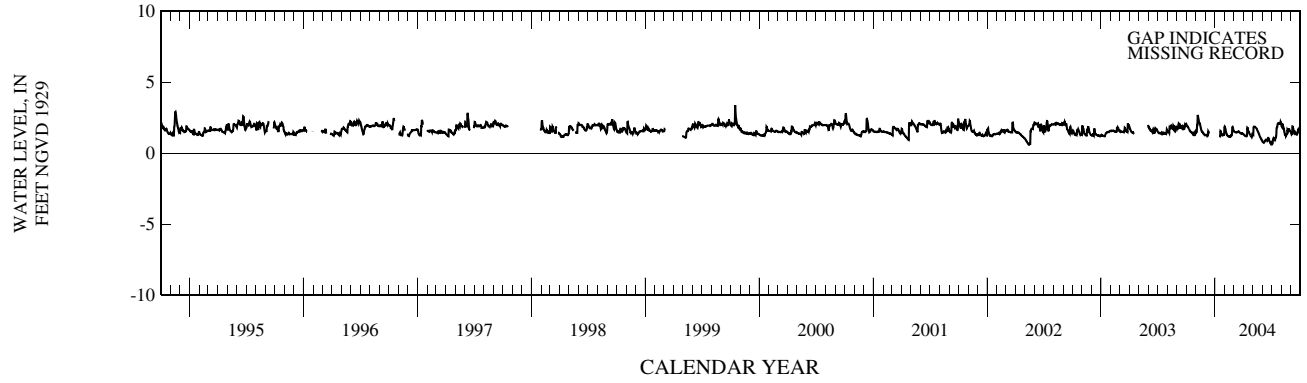
LAND-SURFACE DATUM.--Land surface is approximately 3.1 ft above NGVD. (Corrected).

PERIOD OF RECORD.--March 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 3.40 ft NGVD, Oct. 15, 1999; lowest, 0.59 ft NGVD, May 18, 2002.

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	1.91	2.00	1.29	---	1.49	1.49	1.24	1.87	0.78	0.99	1.94	1.88
10	1.69	2.20	1.53	---	1.23	1.47	1.20	1.81	0.91	0.98	1.50	1.54
15	1.51	1.92	---	1.17	1.18	1.52	1.65	1.64	0.92	1.27	1.20	1.45
20	1.42	1.51	---	1.45	1.20	1.45	1.41	1.38	1.08	2.09	1.62	1.35
25	1.39	1.37	---	1.25	1.84	1.38	1.21	1.11	0.78	2.10	1.68	1.65
EOM	1.50	1.27	---	1.83	1.60	1.37	1.28	0.88	0.74	2.06	1.50	1.64
MAX	2.03	2.70	---	---	1.87	1.56	1.80	1.87	1.08	2.22	2.04	1.88



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--252918080234201. Local Number G 1183. USGS Observation Well in Homestead, FL.

LOCATION.--Lat 25°29'18", long 80°23'42", in NW ¼ SW ¼ NW ¼ sec.12, T.57 S., R.39 E., Hydrologic Unit 03090202, on Homestead Air Force Base, 3.0 mi southeast of U.S. Highway 1.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 9 in., depth 47 ft.

INSTRUMENTATION.--Satellite data collection platform. See REMARKS.

DATUM.--Measuring point: Top of base, 8.06 ft above National Geodetic Vertical Datum of 1929. From October 1992, to March 26, 2001, top of base was 8.05 ft above NGVD. From March 12, 1963, to July 23, 1992, top of base was 8.17 ft above NGVD. From October 3, 1962 to March 12, 1963, the measuring point was 7.92 ft above NGVD. From October 1961 to October 3, 1962, the measuring point was 6.09 ft above NGVD. See REMARKS. (Corrected).

LAND-SURFACE DATUM.--Land surface is approximately 6.2 ft above NGVD.

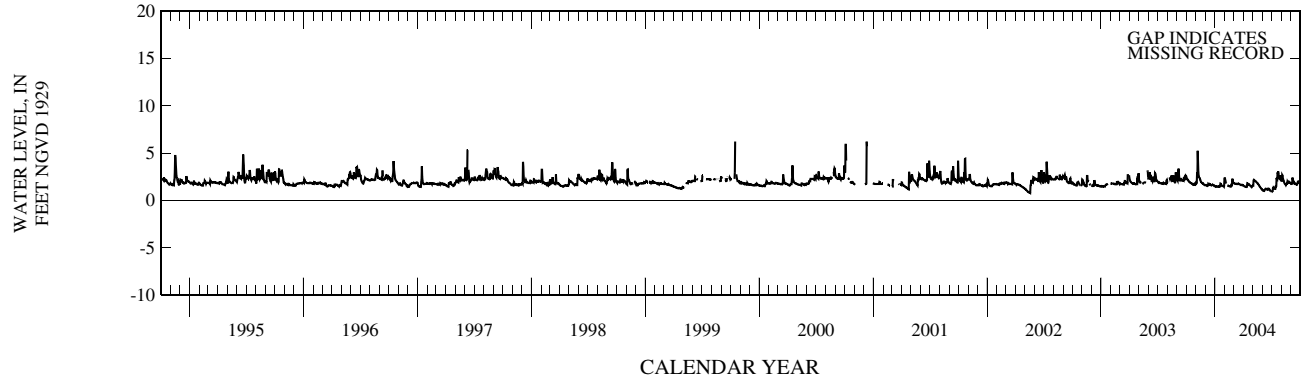
REMARKS.--Well also used for salinity monitoring since May 1965. A tipping bucket rain gage was installed on April 26, 2001 and removed in April 2003. Records of water levels prior to October 1973, are available in files of the U.S. Geological Survey. Station was reconstructed October 3, 1962, March 12, 1963, March 10, 1993 and March 26, 2001. See DATUM. (Corrected).

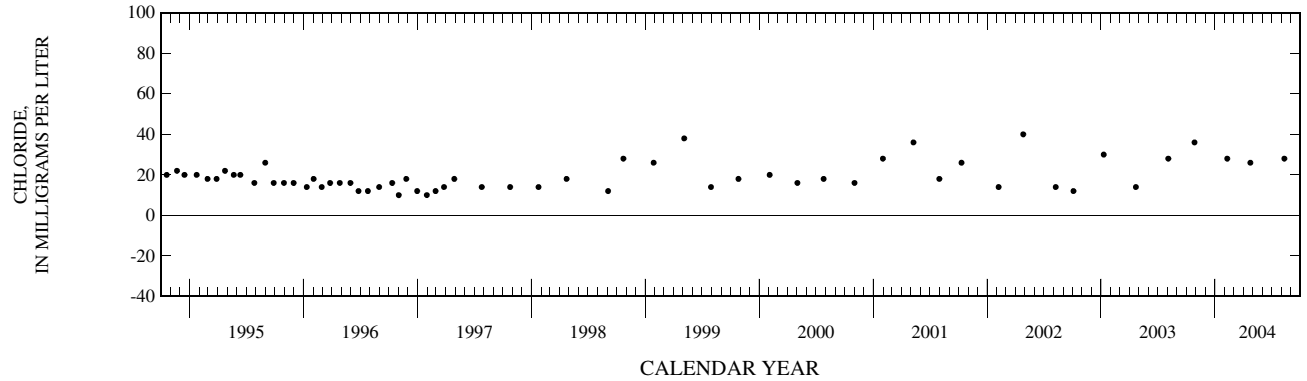
PERIOD OF RECORD.--October 1961 to current year. (Corrected).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 6.23 ft NGVD, Oct. 15, 1999; lowest, 0.83 ft below NGVD, May 12, 1971 and May 18, 2002.

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	2.24	2.70	1.58	1.49	1.86	1.79	1.48	2.17	1.04	1.30	2.30	2.43
10	1.98	2.46	1.77	1.50	1.60	1.75	1.43	2.03	1.22	1.27	1.87	1.94
15	1.85	2.17	1.73	1.47	1.53	1.78	1.75	1.85	1.18	1.51	1.64	1.79
20	1.74	1.85	1.62	1.68	1.51	1.70	1.66	1.65	1.26	2.87	2.00	1.72
25	1.73	1.72	1.65	1.53	2.23	1.63	1.48	1.38	1.07	2.31	1.99	1.91
EOM	1.83	1.62	1.53	2.22	1.87	1.62	1.56	1.16	1.04	2.15	1.84	2.12
MAX	2.48	5.26	1.77	2.22	---	1.83	1.82	2.19	---	3.07	2.70	2.43





MIAMI-DADE COUNTY—Continued

WELL NUMBER.--252928080332401. Local Number G 789. USGS Observation Well near Homestead, FL.

LOCATION.--Lat 25°29'25", long 80°33'13", in NW $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 8, T.57 S., R.38 E., Hydrologic Unit 03090202, in agricultural field at Homestead General Airport, 3.5 mi northwest of Homestead, and 4.9 mi west of State Road 997 (Krome Avenue). (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 30 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of base, 9.35 ft above National Geodetic Vertical Datum of 1929. Prior to October 1996, measuring point was top of casing, 9.33 ft above NGVD. From April 1956 to June 1967, the measuring point was 9.70 ft above NGVD. (Corrected).

LAND-SURFACE DATUM.--Land surface is approximately 7.6 ft above NGVD. (Corrected).

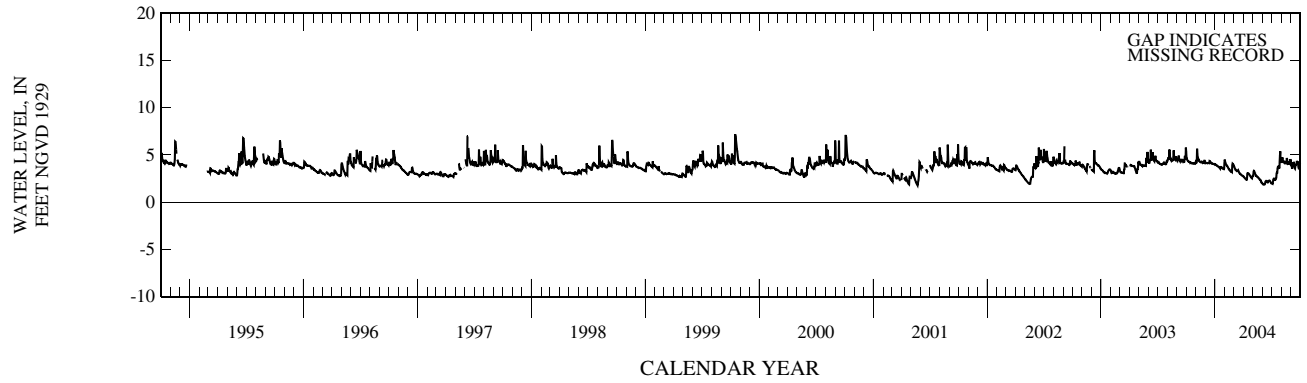
REMARKS.--Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--April 1956 to June 1967, September 1969 to current year. (Corrected).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.73 ft NGVD, Aug. 18, 1981; lowest, 0.90 ft below NGVD, May 8, 1975.

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	4.41	5.11	4.14	3.92	4.01	3.51	2.56	3.31	1.87	2.34	4.40	4.11
10	4.26	4.45	4.14	3.78	3.75	3.31	2.38	2.89	2.13	2.41	4.18	4.18
15	4.20	4.23	4.34	3.64	3.44	3.38	3.06	2.70	2.23	2.62	4.26	3.88
20	4.11	4.23	4.14	3.73	3.25	3.03	2.91	2.54	2.20	3.73	4.17	4.25
25	4.08	4.18	4.04	3.56	3.91	2.86	2.66	2.35	2.22	3.64	4.22	3.62
EOM	4.24	4.13	4.01	4.15	3.95	2.74	2.75	2.02	1.98	4.45	4.26	4.16
MAX	4.73	5.66	4.35	4.15	4.51	3.89	3.06	3.32	2.29	5.38	4.68	4.37



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--252933080210001. Local Number G 3549. USGS Observation Well near Homestead, FL.

LOCATION.--Lat 25°29'33", long 80°20'57", in SE ¼ SE ¼ SE ¼ sec.5, T.57 S., R.40 E., Hydrologic Unit 03090202, east of Homestead Air Force Base, 0.23 mi north of Military Canal and 0.2 mi west of L-31 East Canal, 0.9 mi east of SW 107th Avenue, 8.5 mi northeast of Homestead. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 11 ft, cased to 6 ft, screened 6 to 11 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 7.03 ft above National Geodetic Vertical Datum of 1929. Prior to June 27, 2002, measuring point was 7.02 ft above NGVD.

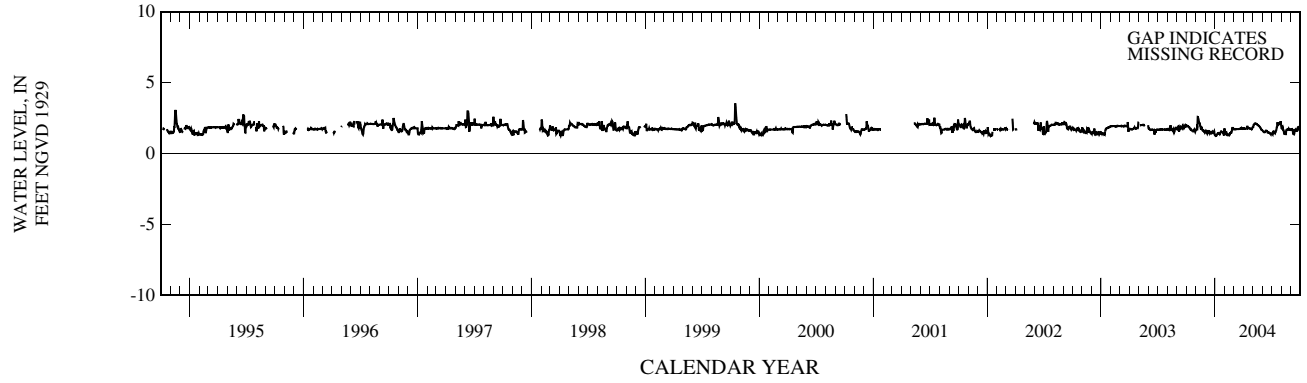
LAND-SURFACE DATUM.--Land surface is approximately 3.9 ft above NGVD. (Corrected).

PERIOD OF RECORD.--March 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 3.53 ft NGVD, Oct. 15, 1999; lowest, 1.20 ft NGVD, May 4, 1994.

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	1.94	1.85	1.49	1.27	1.48	1.71	1.75	2.08	1.51	1.55	1.77	1.73
10	1.84	2.20	1.65	1.42	1.31	1.73	1.76	2.11	1.58	1.45	1.40	1.36
15	1.72	1.93	1.51	1.38	1.29	1.73	1.78	2.04	1.59	1.64	1.37	1.72
20	1.62	1.75	1.41	1.57	1.47	1.74	1.77	1.96	1.49	2.03	1.69	1.62
25	1.66	1.63	1.54	1.50	1.73	1.82	1.74	1.81	1.43	2.11	1.70	1.72
EOM	1.68	1.50	1.32	1.77	1.73	1.76	1.84	1.65	1.41	1.94	1.69	1.60
MAX	1.97	2.58	1.65	1.77	1.87	1.82	1.96	2.12	1.63	2.28	1.90	1.85



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--252944080233401. Local Number G 1179. USGS Observation Well in Homestead, FL.

LOCATION.--Lat 25°29'44", long 80°23'34", in NE $^1/_4$ SW $^1/_4$ SW $^1/_4$ sec.1, T.57 S., R.39 E., Hydrologic Unit 03090202, 23 mi southwest of Miami, 3 mi southeast of U.S. Highway 1, in field southeast of Sandia and St. Lo intersection at Homestead Air Force Base.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 9 in., depth 80 ft.

INSTRUMENTATION.--Semiannual measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 8.57 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 8.0 ft above NGVD. (Corrected).

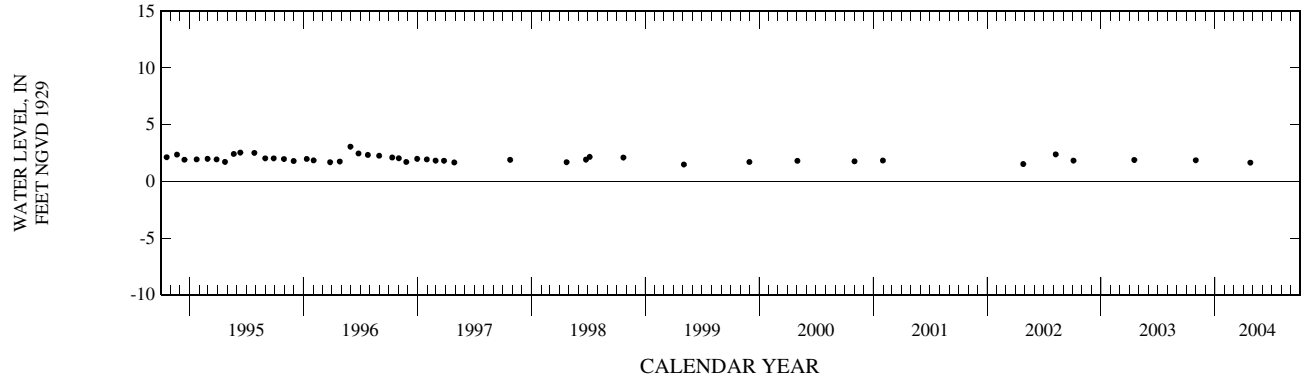
REMARKS.--Well has been used for salinity monitoring intermittently from December 1961 to February 1967, monthly since May 1971. The well casing has become obstructed at a depth of 55 ft. A sampling tube has been inserted into the well to its full depth for the collection of chloride samples. The well remains in hydrologic communication with the aquifer.

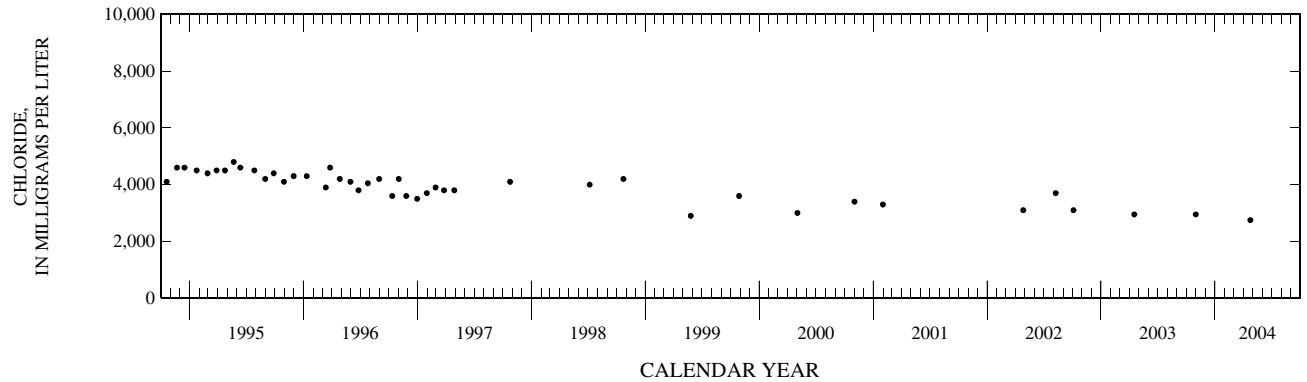
PERIOD OF RECORD.--June 1983 to March 1997 (monthly), April 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.22 ft NGVD, May 31, 1985; lowest, 0.87 ft NGVD, Mar. 27, 1985.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
31...	1320	1.85	8,560	2,950
APR				
23...	1036	1.64	8,820	2,750





MIAMI-DADE COUNTY—Continued

WELL NUMBER.--252947080235301. Local Number G 1180. USGS Observation Well in Homestead, FL.

LOCATION.--Lat 25°29'52", long 80°24'14", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.2, T.57 S., R.39 E., Hydrologic Unit 03090202, 23 mi southwest of Miami, 3 mi southeast of U.S. Highway 1, at Homestead Air Force Base. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 9 in., depth 67 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 6.91 ft above National Geodetic Vertical Datum of 1929. Prior to May 7, 2001, measuring point was top of casing, 6.46 ft above NGVD. Prior to October 1999, measuring point was incorrectly considered to be 5.46 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 6.5 ft above NGVD.

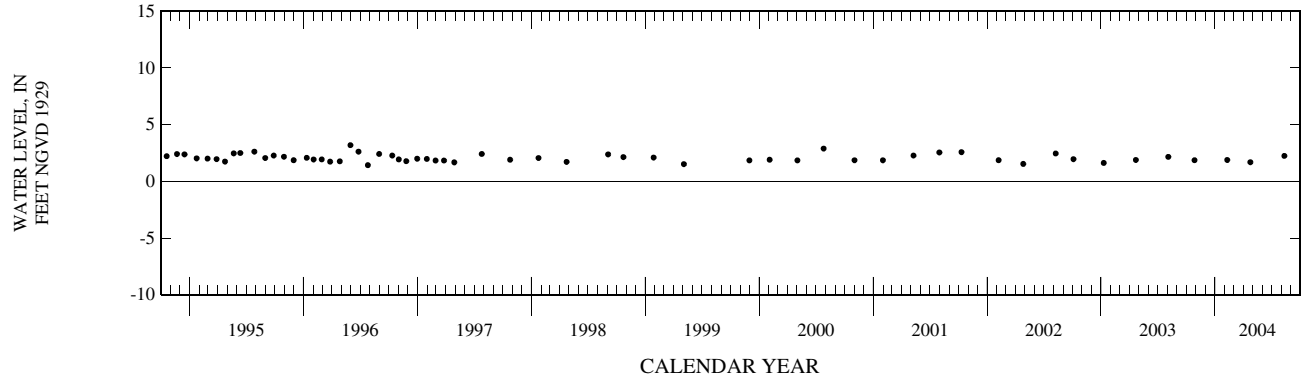
REMARKS.--Well also used for salinity monitoring intermittently from December 1961 to July 1971, monthly since February 1973. Revised measuring point May 7, 2001, is from top of well reconstruction. Figures of water levels as elevation, in ft NGVD, prior to October 1999, are in error. Corrected records are available in the files of the U.S. Geological Survey. Chloride samples are collected 57 ft below land surface because of an obstruction at 58 ft. See DATUM.

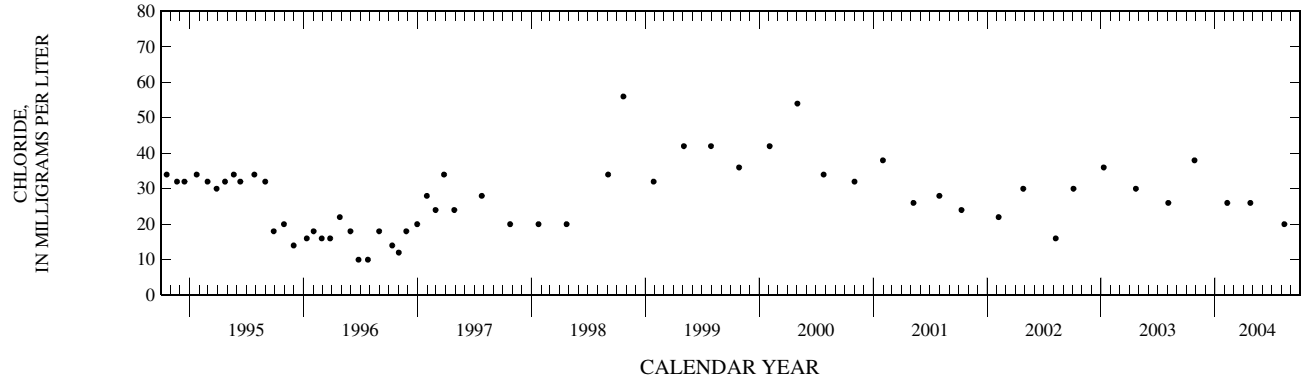
PERIOD OF RECORD.--November 1979 (intermittently), June 1983 to March 1997 (monthly), April 1997 to current year. (Corrected).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.70 ft NGVD, July 28, 1983; lowest, 0.50 ft below NGVD, Feb. 25, 1985.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
27...	1118	1.86	538	38.0
FEB				
09...	1220	1.88	513	26.0
APR				
23...	0952	1.68	517	26.0
AUG				
10...	1035	2.24	449	20.0





MIAMI-DADE COUNTY—Continued

WELL NUMBER.--252955080340701. Local Number G 3622. USGS Observation Well near Homestead, FL.

LOCATION.--Lat 25°29'55", long 80°34'07", in SE ¼ SE ¼ NW ¼ sec.6, T.57 S., R.38 E., Hydrologic Unit 03090202, 0.7 mi west of Homestead General Airport, south of SW 288th Street, 3.5 mi northwest of Homestead, and 5.0 mi west of State Road 997 (Krome Avenue). (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 10 in., depth 9 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of base, 9.16 ft above National Geodetic Vertical Datum of 1929. Prior to June 30, 2001, measuring point was 8.94 ft above NGVD. (Corrected).

LAND-SURFACE DATUM.--Land surface is approximately 5.6 ft above NGVD.

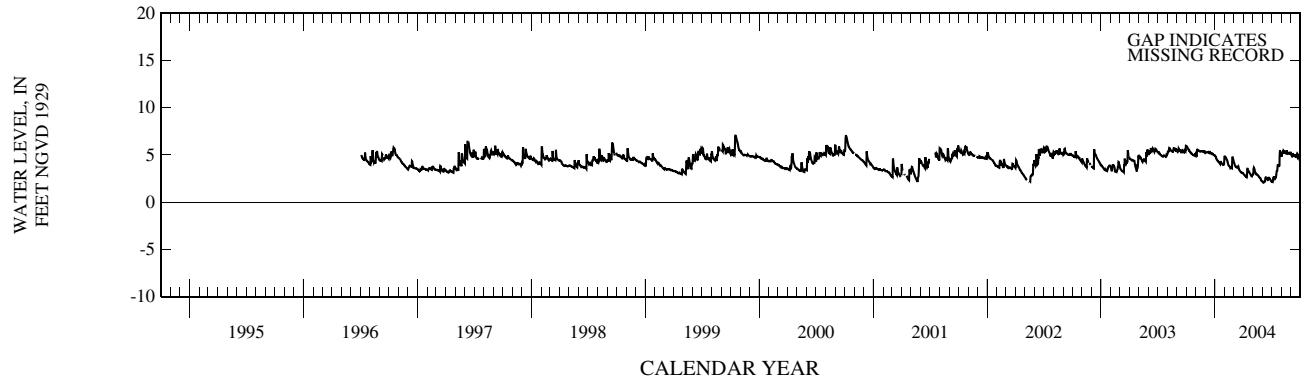
REMARKS.--Well was destroyed June 29, 2001, and rebuilt with new base July 18, 2001.

PERIOD OF RECORD.--June 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.04 ft NGVD, Oct. 16, 17, 1999; lowest, 2.08 ft NGVD, June 3, 2004.

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	5.74	5.53	5.29	4.59	4.67	3.86	2.84	3.59	2.15	2.55	5.32	5.18
10	5.51	5.45	5.30	4.33	4.24	3.67	2.67	3.06	2.59	2.54	5.30	5.00
15	5.25	5.35	5.30	4.13	3.82	3.81	3.42	2.92	2.52	2.88	5.26	4.82
20	5.05	5.42	5.14	4.20	3.64	3.34	3.15	2.73	2.58	3.99	5.24	4.90
25	4.94	5.32	5.07	3.99	4.60	3.13	2.87	2.52	2.45	3.87	5.15	4.82
EOM	5.11	5.21	4.96	4.73	4.39	3.04	2.91	2.20	2.20	5.04	5.14	4.85
MAX	5.89	5.63	5.40	4.92	4.91	4.27	3.54	3.66	2.62	5.46	5.46	5.18



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--253012080261401. Local Number G 1486. USGS Observation Well near Homestead, FL.

LOCATION.--Lat 25°30'09", long 80°26'14", in NE $^1/_4$ SW $^1/_4$ NW $^1/_4$ sec.4, T.57 S., R.39 E., Hydrologic Unit 03090202, at the southwest corner of SW 284th Street and SW 152nd Avenue, 0.3 mi east of U.S. Highway 1, and 3.0 mi northeast of Homestead. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 32 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 13.07 ft above National Geodetic Vertical Datum of 1929. From October 1, 1977, to August 24, 1992, the measuring point was top of casing, 12.89 ft above NGVD. From May 1970 to December 1976, top of casing was 14.04 ft above NGVD. (Corrected).

LAND-SURFACE DATUM.--Land surface is approximately 10.4 ft above NGVD.

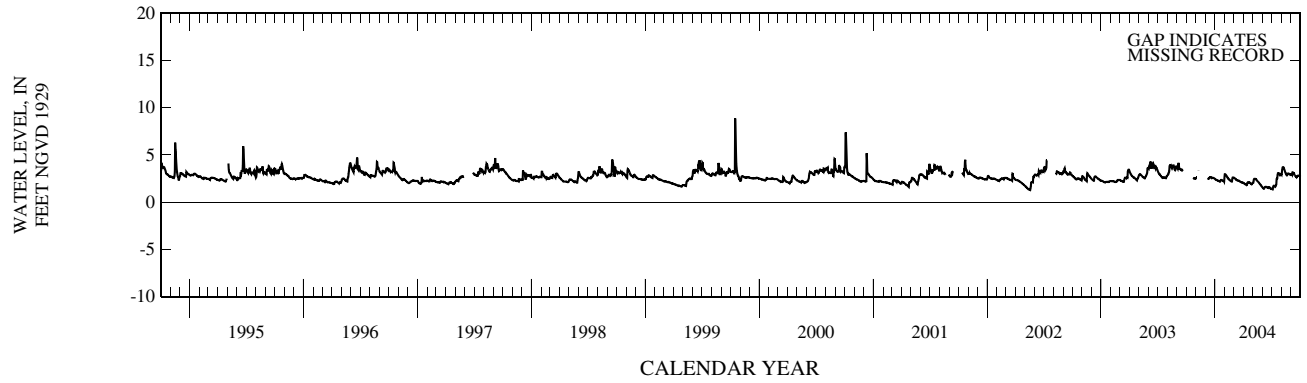
REMARKS.--Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--May 1970 to December 1976, October 1977 to current year. (Corrected).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.87 ft NGVD, Aug. 18, 1981; lowest, 0.82 ft below NGVD, May 13, 1971.

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	---	---	---	2.35	2.86	2.49	1.93	2.46	1.43	1.63	3.68	3.15
10	---	---	2.47	2.28	2.59	2.35	1.84	2.45	1.61	1.69	3.45	3.07
15	---	---	2.64	2.21	2.38	2.29	2.10	2.26	1.58	1.87	3.01	2.74
20	---	---	2.63	2.35	2.24	2.20	2.09	2.08	1.56	3.01	2.98	2.72
25	2.53	---	2.58	2.25	2.45	2.10	1.95	1.85	1.52	2.91	2.99	2.82
EOM	2.55	---	2.48	2.60	2.61	2.05	2.02	1.61	1.40	2.96	2.95	2.86
MAX	---	---	---	2.60	2.95	2.60	2.12	2.48	1.62	3.08	3.70	3.15



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--253024080231001. Local Number G 3615. USGS Observation Well near Homestead, FL.

LOCATION.--Lat 25°30'24", long 80°23'10", in NE $^1/_4$ NW $^1/_4$ NE $^1/_4$ sec.1, T.57 S., R.39 E., Hydrologic Unit 03090202, approximately 0.9 mi west of SW 112th Avenue on SW 280th Street, 17 ft east of Homestead Air Force Base perimeter fence.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 80 ft, cased to 75 ft, screened 75 to 80 ft.

INSTRUMENTATION.--Annual profile using an induction logger.

DATUM.--Measuring point: Top of casing, 4.54 ft above National Geodetic Vertical Datum of 1929. Prior to March, 2000, measuring point was estimated to be 5.00 ft above NGVD using a topographic map. See REMARKS.

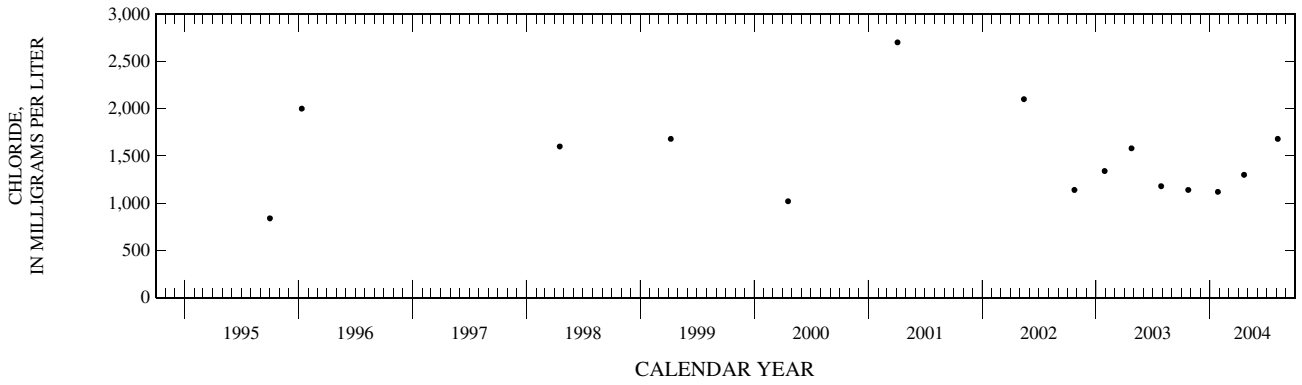
LAND-SURFACE DATUM.--Land surface is approximately 4.5 ft above NGVD.

REMARKS.--Well also used for salinity monitoring. Induction logs are used to assess movement of the fresh-water/salt-water interface in ground water. See EXPLANATION OF THE RECORDS SECTION, RECORDS OF BULK CONDUCTIVITY in the front of this book. A calibration error was found to have affected some of the historical bulk conductivity logs. Bulk conductivity logs prior to the 2002 water year had been (with the exception of 1998) calibrated to a standard of 1,301 mS/m. For these calibrations an internal setting limited the probe response to 1,000 mS/m. Data for the affected years was corrected by applying a 0.7686 multiplier. Salinity monitoring began in September 1995. Water level measurements began in April 2000. Water level elevation data collected prior to March 14, 2000, has been computed using the measuring point established on March 14, 2000, and it is in the files of the U.S. Geological Survey.

PERIOD OF RECORD.--September 1995 to current year.

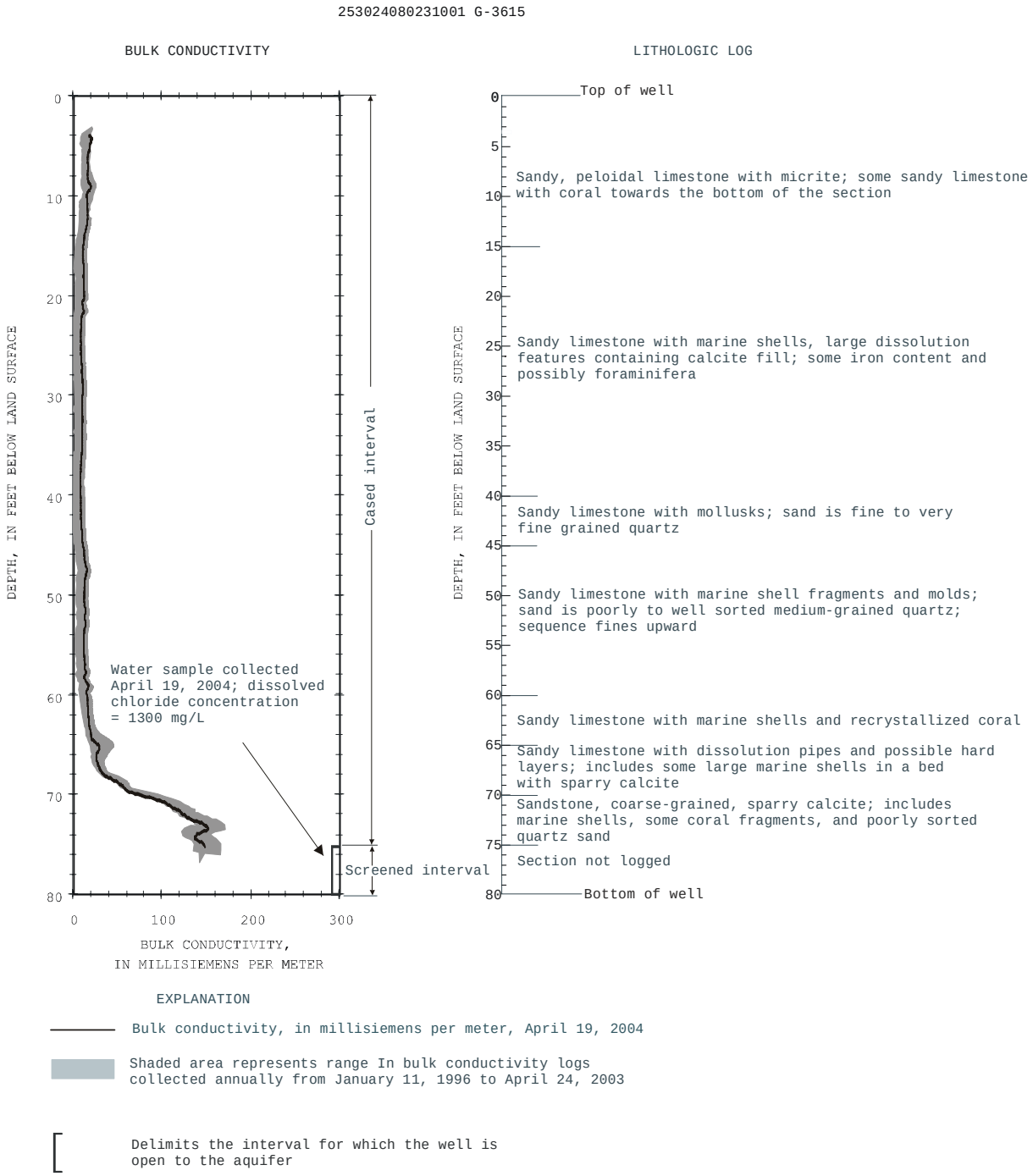
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Chlor-ide, water, fltrd, mg/L (00940)	Date	Time	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Chlor-ide, water, fltrd, mg/L (00940)
OCT				APR			
23...	1235	3,780	1,140	19...	0845	4,400	1,300
JAN				AUG			
26...	0905	3,850	1,120	05...	1000	6,000	1,680



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--253024080231001. Local Number G 3615. USGS Observation Well near Homestead, FL.-Continued



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--253027080234701. Local Number G 3700. USGS Observation Well near Homestead, FL.

LOCATION.--Lat 25°30'27", long 80°23'47", in SE ¼ SE ¼ SE ¼ sec.35, T.56 S., R.39 E., Hydrologic Unit 03090202, in the sidewalk 37 ft north of SW 280th Street and 200 ft west of SW 127th Avenue.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 82.5 ft, cased to 77.5 ft, screened 77.5 to 82.5 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape.

DATUM.-- Measuring point: Top of casing, 9.35 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 9.4 ft above NGVD.

REMARKS.--Well is also used for annual salinity monitoring, including an annual induction log. Induction logs are used to assess the movement of the fresh-water/salt-water interface in ground water. See EXPLANATION OF THE RECORDS SECTION, RECORDS OF BULK CONDUCTIVITY in the front of the book. A calibration error was found to have affected some of the historical bulk conductivity logs. Bulk conductivity logs prior to the 2002 water year had been calibrated to a standard of 1,301 mS/m. For these calibrations an internal setting limited the probe response to 1,000 mS/m. Data for the affected years was corrected by applying a 0.7686 multiplier. Annual induction logs began in April 2000. The induction logs published in the 2001 water year were in error. Water-level measurements began in November 2000. Salinity monitoring began in October 2002.

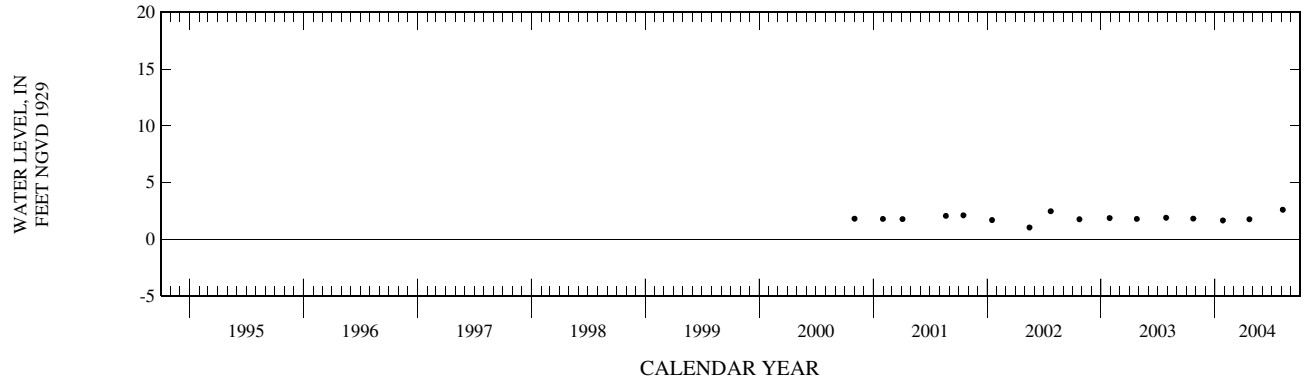
PERIOD OF RECORD.--April 2000 to current year. See REMARKS.

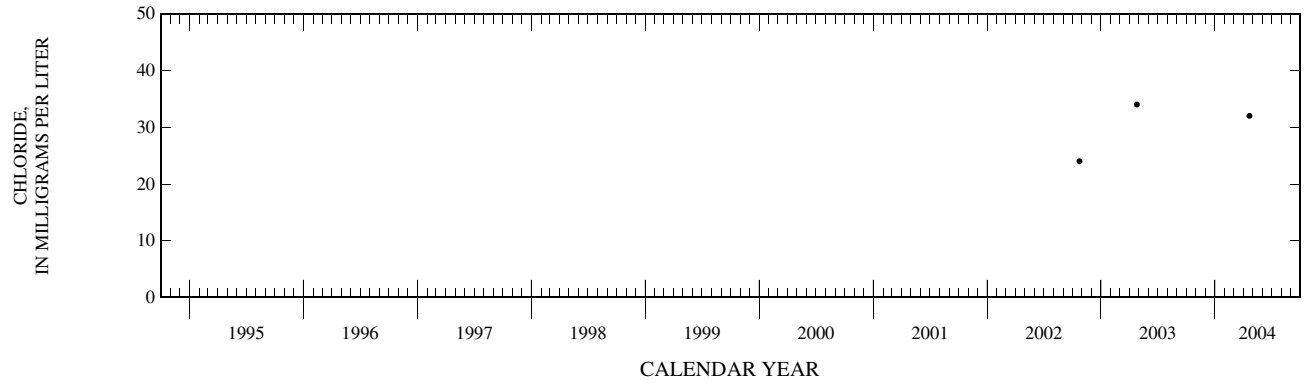
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.61 ft NGVD, Aug. 5, 2004; lowest, 1.05 ft NGVD, May 16, 2002.

REVISIONS.--The incorrect plot of bulk conductivity was published in Water Resources Data, Florida, Water Year 2001, Volume 2B. The correct plot is available in the files of the U.S. Geological Survey.

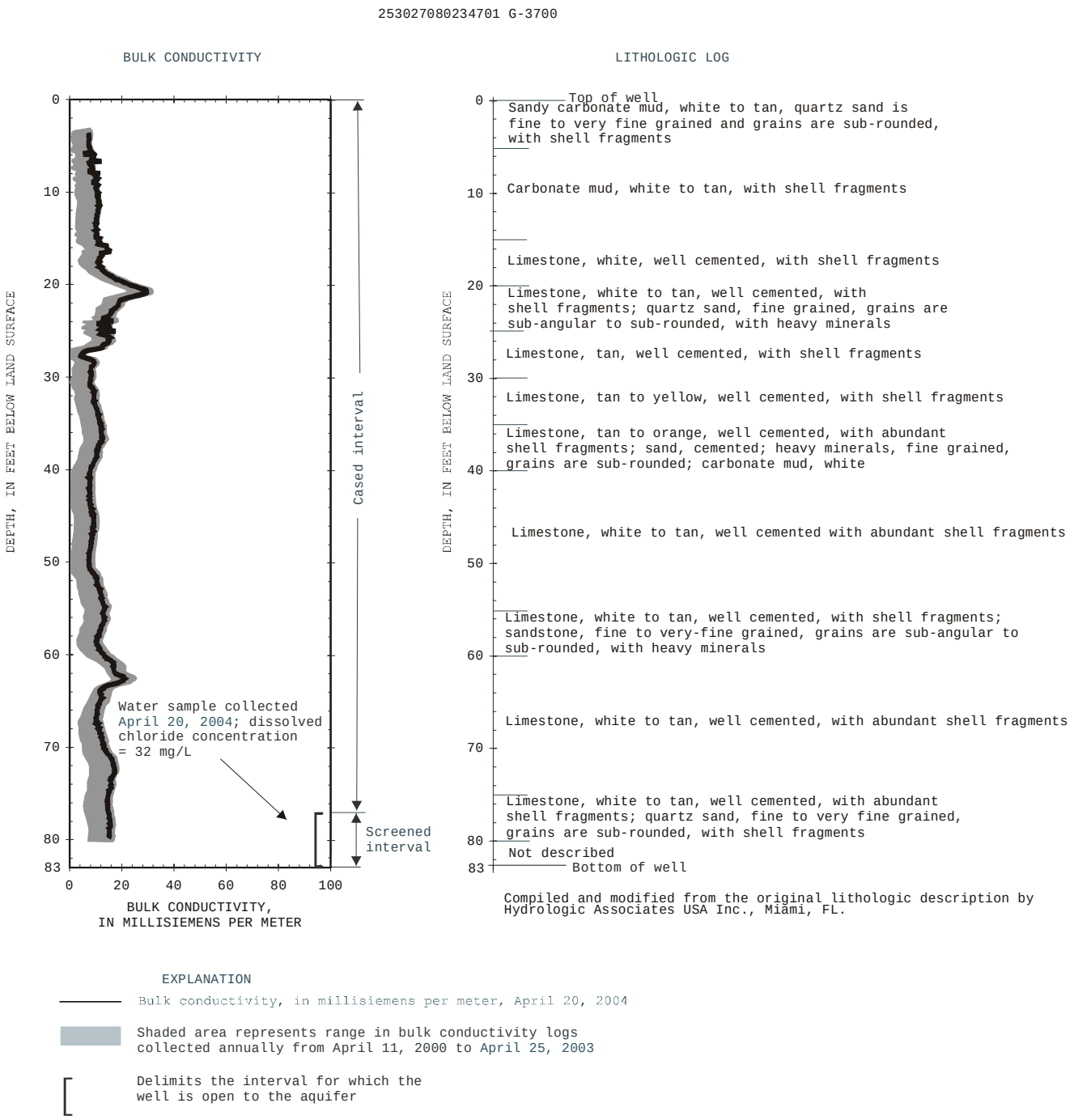
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
23...	1217	1.83	--	--
JAN				
26...	0846	1.67	--	--
APR				
20...	0945	1.77	478	32.0
AUG				
05...	1035	2.61	--	--





WELL NUMBER.--253027080234701. Local Number G 3700. USGS Observation Well near Homestead, FL.-Continued



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--253029080295601. Local Number S 196A. USGS Observation Well near Homestead, FL.

LOCATION.--Lat 25°30'29", long 80°29'56", in SW $^1/_4$ SE $^1/_4$ sec.35, T.56 S., R.38 E., Hydrologic Unit 03090202, at Institute of Food and Agricultural Science Station on Waldin Drive (SW 280th Street), 3.3 mi northwest of Homestead, and 4.3 mi west of U.S. Highway 1.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 8 in., depth 20 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of base, 13.68 ft above National Geodetic Vertical Datum of 1929. From July 26, 2000 to May 25, 2001, measuring point was 13.54 ft above NGVD. From October 1972 to July 26, 2000, measuring point was 13.48 ft above NGVD. From February 7, 1962 to September 1972, measuring point was 12.94 ft above NGVD. From October 1956 to February 2, 1962, measuring point was 13.41 ft NGVD. See REMARKS. (Corrected).

LAND-SURFACE DATUM.--Land surface is approximately 10.3 ft above NGVD.

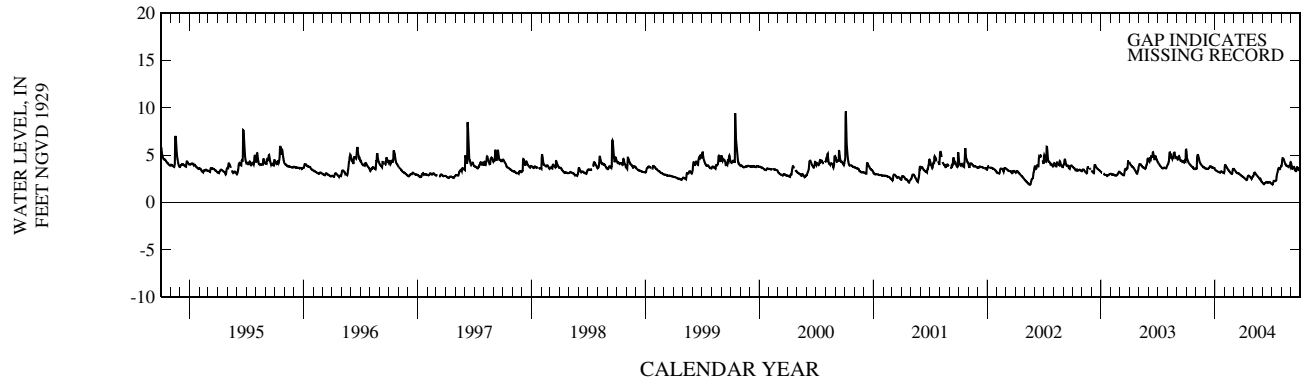
REMARKS.--Revised measuring point because of station re-construction. See DATUM. This well replaced S-196 in January 1956.

PERIOD OF RECORD.--January 1932 to September 1956, S-196. October 1956 to current year, S-196A. (Corrected).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 9.64 ft NGVD, Oct. 4, 2000; lowest, 1.64 ft below NGVD, May 20, 1971.

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	4.53	4.95	3.56	3.36	3.87	3.37	2.56	3.12	1.94	2.09	4.68	3.58
10	4.12	4.63	3.60	3.25	3.57	3.17	2.40	3.05	2.08	2.28	4.36	3.74
15	3.91	4.13	3.81	3.19	3.33	3.11	2.80	2.82	2.15	2.36	3.97	3.33
20	3.76	3.90	3.78	3.28	3.12	2.99	2.80	2.61	2.13	3.37	3.86	3.73
25	3.57	3.72	3.70	3.19	3.08	2.84	2.59	2.51	2.13	3.56	3.88	3.48
EOM	3.60	3.63	3.54	3.24	3.56	2.70	2.73	2.14	1.98	3.87	4.21	3.49
MAX	5.32	5.03	3.84	3.46	3.97	3.56	2.84	3.15	2.16	3.87	4.68	4.07



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--253214080215401. Local Number G 3613. USGS Observation Well near Homestead, FL.

LOCATION.--Lat 25°32'14", long 80°21'54", in SE ¼ SE ¼ SE ¼ sec.19, T.56 S., R.40 E., Hydrologic Unit 03090202, approximately 60 ft east of Florida Turnpike, 20 ft north of SW 248th Street, approximately 160 ft north of Goulds Canal.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 60 ft, cased to 55 ft, screened 55 to 60 ft.

INSTRUMENTATION.--Annual profile using an induction logger.

DATUM.-- Measuring point: Top of casing, 4.42 ft above National Geodetic Vertical Datum of 1929. Prior to March, 2000, measuring point was estimated to be 5.00 ft above NGVD from a topographic map.

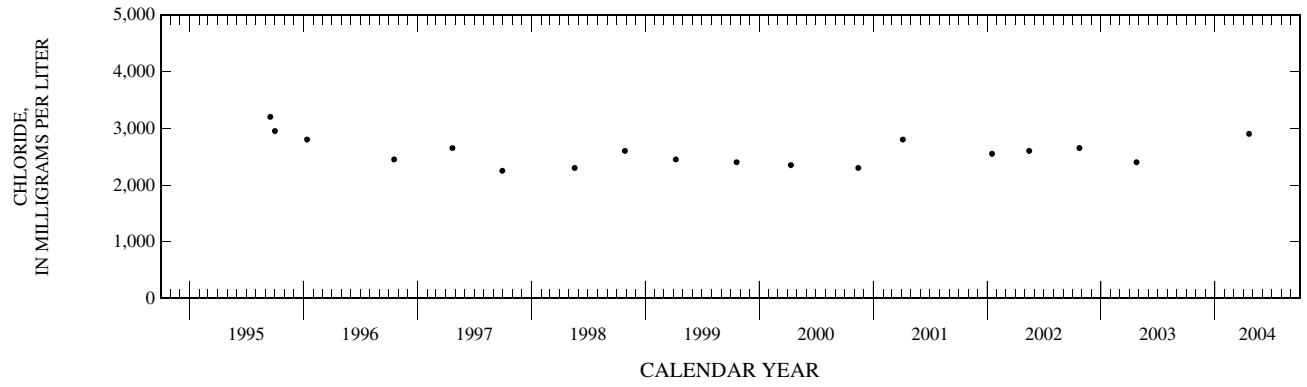
LAND-SURFACE DATUM.--Land surface is approximately 4.4 ft above NGVD.

REMARKS.--Well is used for semiannual salinity monitoring, including an annual induction log. Salinity monitoring began in September 1995. Induction logs are used to assess movement of the fresh-water/salt-water interface in ground water. A calibration error was found to have affected some of the historical bulk conductivity logs. Bulk conductivity logs prior to the 2002 water year had been (with the exception of 1998) calibrated to a standard of 1,301 mS/m. For these calibrations an internal setting limited the probe response to 1,000 mS/m. Data for the affected years was corrected by applying a 0.7686 multiplier. See EXPLANATION OF THE RECORDS SECTION, RECORDS OF BULK CONDUCTIVITY in the front of this book.

PERIOD OF RECORD.--September 1995 to current year.

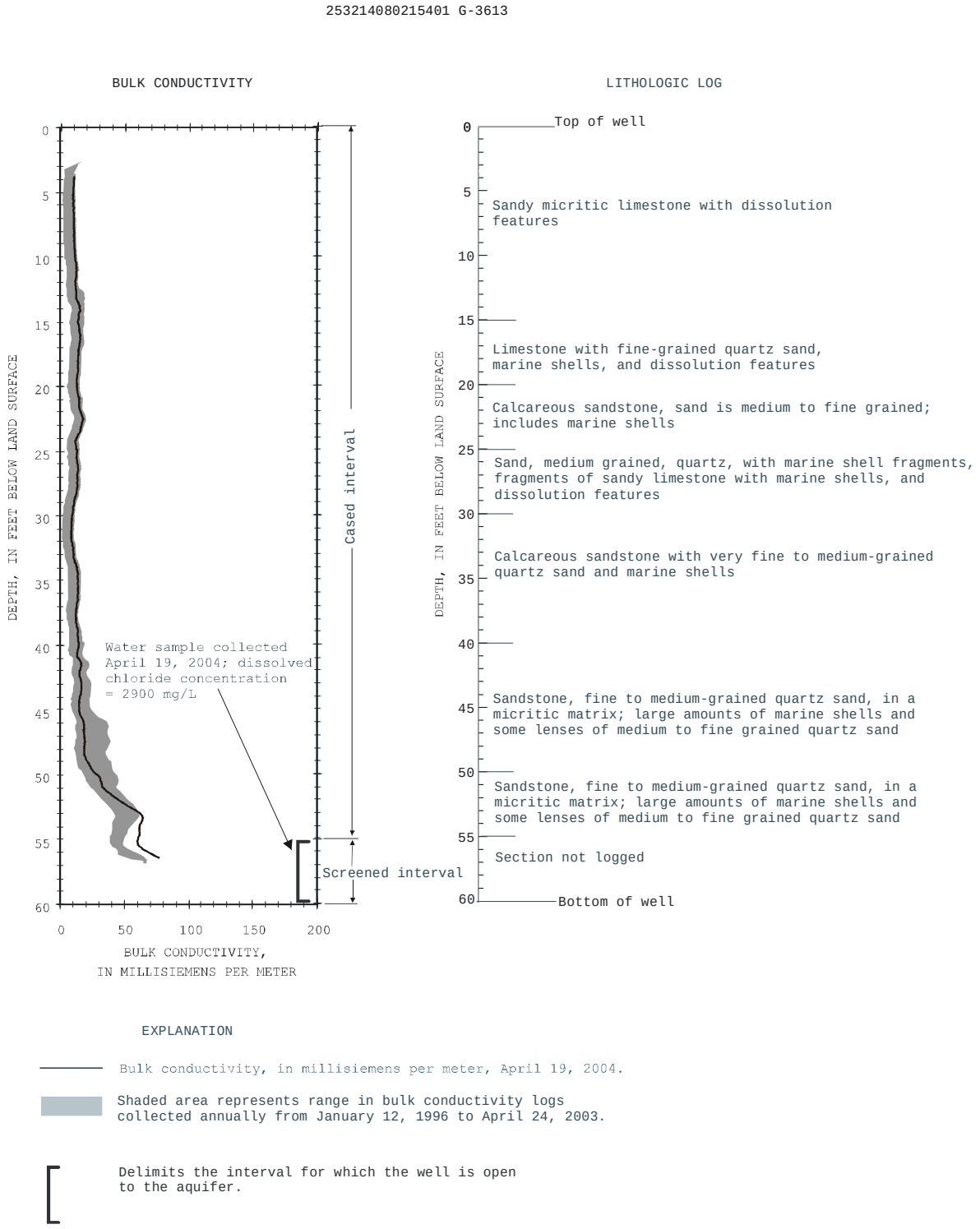
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Chlor-ide, water, fltrd, mg/L (00940)
APR 19...	1204	8,730	2,900



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--253214080215401. Local Number G 3613. USGS Observation Well near Homestead, FL.-Continued



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--253214080224601. Local Number G 3701. USGS Observation Well near Goulds, FL.

LOCATION.--Lat 25°32'14", long 80°22'46", in SW ¼ SW ¼ SW ¼ sec.19, T.56 S., R.40 E., Hydrologic Unit 03090202, 35 ft north of SW 248th Street and 190 ft east of SW 117th Avenue.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 83 ft, cased to 78 ft, screened 78 to 83 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 6.64 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 6.6 ft above NGVD.

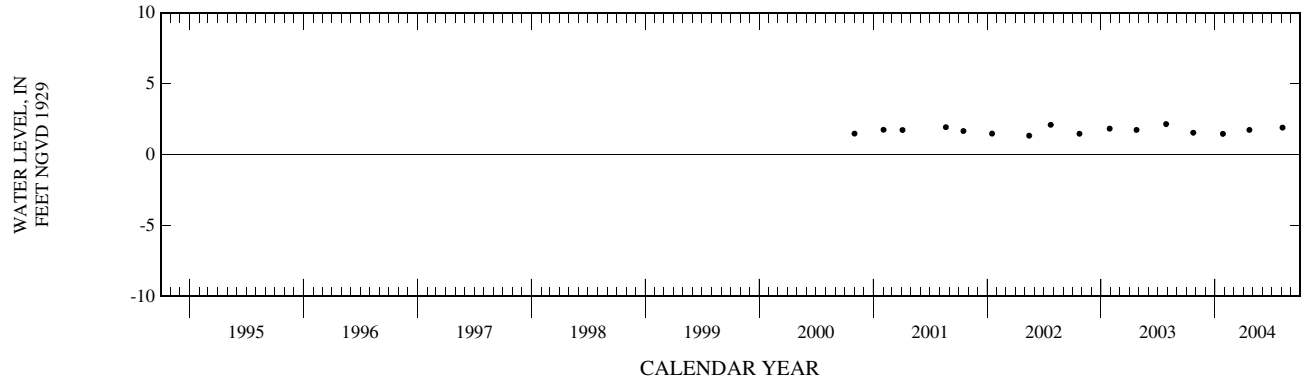
REMARKS.--Well is also used for annual salinity monitoring, including an annual induction log. Induction logs are used to assess the movement of the fresh-water/salt-water interface in ground water. See EXPLANATION OF THE RECORDS SECTION, RECORDS OF BULK CONDUCTIVITY in the front of this book. A calibration error was found to have affected some of the historical bulk conductivity logs. Bulk conductivity logs prior to the 2002 water year had been calibrated to a standard of 1,301 mS/m. For these calibrations an internal setting limited the probe response to 1,000 mS/m. Data for the affected years was corrected by applying a 0.7686 multiplier. Annual induction logging began in April 2000. Salinity monitoring began in October 2002. Water-level measurements began in November 2000.

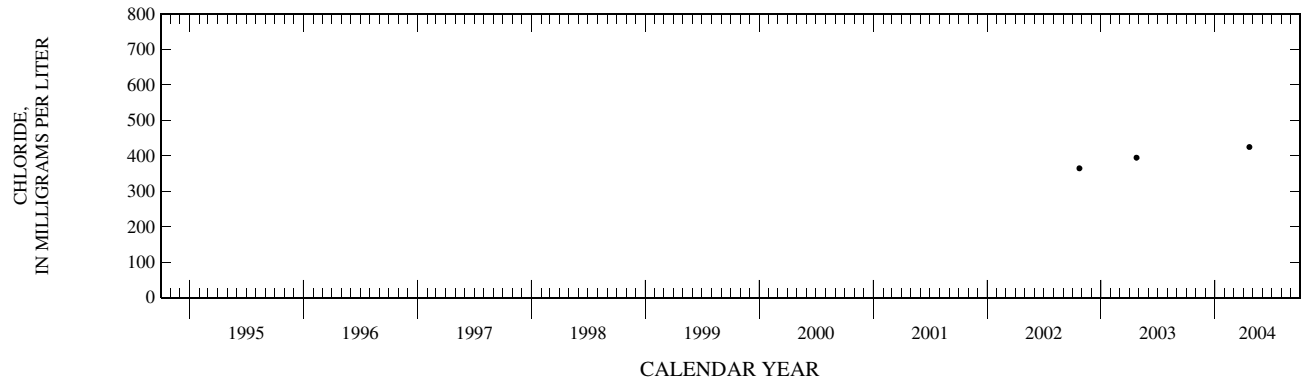
PERIOD OF RECORD.--April 2000 to current year. See REMARKS.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.15 ft NGVD, July 28, 2003; lowest, 1.33 ft NGVD, May 15, 2002.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
23...	1112	1.54	--	--
JAN				
26...	0735	1.46	--	--
APR				
20...	0815	1.74	1,600	425
AUG				
04...	0840	1.90	--	--

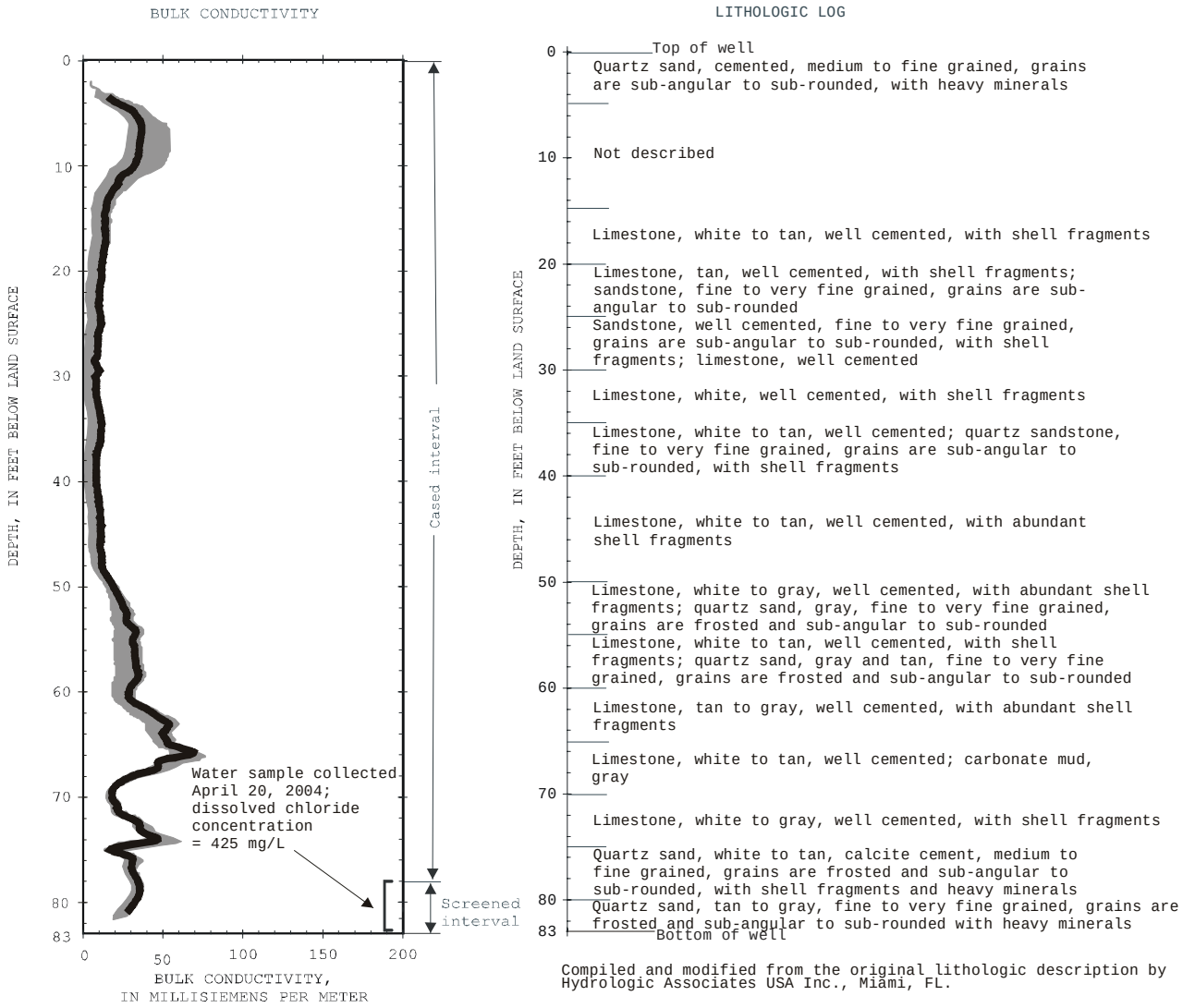




MIAMI-DADE COUNTY—Continued

WELL NUMBER.--253214080224601. Local Number G 3701. USGS Observation Well near Goulds, FL.-Continued

253214080224601 G-3701



Compiled and modified from the original lithologic description by Hydrologic Associates USA Inc., Miami, FL.

EXPLANATION

Bulk conductivity, in millisiemens per meter, April 20, 2004

Shaded line represents bulk conductivity in millisiemens per meter April 11, 2000, to April 24, 2003

Delimits the interval for which the well is open to the aquifer

MIAMI-DADE COUNTY—Continued

WELL NUMBER.--253233080301001. Local Number G 1363. USGS Observation Well near Homestead, FL.

LOCATION.--Lat 25°32'33", long 80°30'10", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.23, T.56 S., R.38 E., Hydrologic Unit 03090202, on Tower Road, 1.5 mi west of State Road 997 (Krome Avenue), and 5.4 mi northwest of Homestead.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 33 ft, cased to 12 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 11.63 ft above National Geodetic Vertical Datum of 1929. Prior to August 16, 1997, the measuring point was top of casing, 12.44 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 8.8 ft above NGVD.

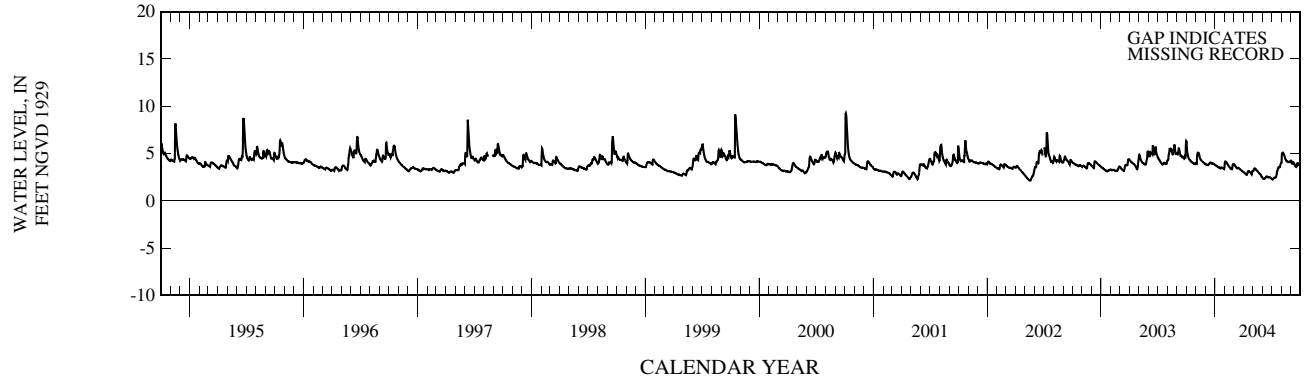
REMARKS.--Station reconstructed August 28, 1997. Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey. The open interval of the well has become obstructed or has collapsed at a depth of 23.6 ft. The well remains in communication with the aquifer from 12 to 23.6 ft.

PERIOD OF RECORD.--November 1968 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 9.80 ft NGVD (estimated), Aug. 18, 1981; lowest, 0.70 ft below NGVD, May 15, 1971.

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	4.93	4.94	3.82	3.71	4.13	3.71	2.94	3.39	2.31	2.28	5.03	3.86
10	4.38	5.00	3.82	3.59	3.85	3.52	2.77	3.36	2.43	2.45	4.79	3.97
15	4.18	4.41	4.00	3.51	3.61	3.47	3.10	3.17	2.56	2.58	4.32	3.62
20	4.04	4.19	4.01	3.52	3.42	3.35	3.11	2.98	2.48	3.36	4.18	3.95
25	3.92	4.04	3.95	3.45	3.42	3.21	2.91	2.77	2.48	3.58	4.14	3.88
EOM	3.96	3.92	3.82	3.53	3.89	3.06	3.14	2.49	2.34	4.00	4.24	3.84
MAX	6.28	5.09	4.05	3.78	4.16	3.89	3.15	3.44	2.57	4.00	5.07	4.22



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--253258080264301. Local Number G 614. USGS Observation Well in Goulds, FL.

LOCATION.--Lat 25°32'58", long 80°26'43", in NW $^1/_4$ NW $^1/_4$ sec.21, T.56 S., R.39 E., Hydrologic Unit 03090202, at southeast corner of Newton Road and Silver Palm Drive, 3.0 mi west of U.S. Highway 1.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 20 ft, cased to 18 ft.

REVISED RECORDS.--WDR FL-85-2B:1981.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 14.40 ft above National Geodetic Vertical Datum of 1929. From September 1995 to October 1997, the measuring point was 14.39 ft above NGVD. Prior to September 1995, the measuring point was 14.15 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 11.1 ft above NGVD.

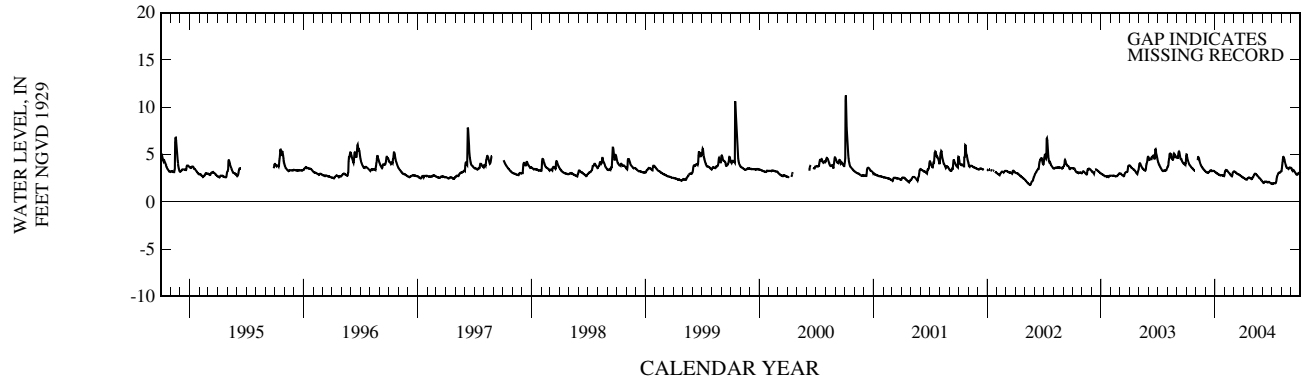
REMARKS.--Revised measuring point elevations, September 1995 and October 2, 1997, are the result of station reconstruction. Records of water levels prior to January 1957 are available in the files of the U.S. Geological Survey.

PERIOD OF RECORD.--January 1950 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 11.24 ft NGVD, Oct. 4, 2000; lowest, 0.62 ft below NGVD, May 14, 1971.

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	4.52	---	3.11	3.05	3.36	3.16	2.46	2.89	1.99	1.95	4.46	3.29
10	3.97	4.62	3.09	2.95	3.25	3.02	2.36	2.96	2.14	1.97	4.47	3.28
15	3.73	4.02	3.27	2.85	3.02	2.92	2.51	2.78	2.12	2.13	3.84	3.02
20	3.55	3.68	3.31	2.84	2.84	2.81	2.56	2.59	2.11	2.89	3.57	2.88
25	3.37	3.45	3.28	2.78	2.77	2.69	2.45	2.41	2.03	3.09	3.60	3.04
EOM	---	3.26	3.20	2.79	3.19	2.58	2.59	2.18	1.95	3.26	3.60	3.17
MAX	---	---	3.33	3.17	3.36	3.21	2.59	2.97	2.15	3.26	4.76	3.59



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--253334080213601. Local Number G 3702. USGS Observation Well near Cutler Ridge, FL.

LOCATION.--Lat 25°33'34", long 80°21'36", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.17, T.56 S., R.40 E., Hydrologic Unit 03090202, 32 ft west of Black Creek Canal and 183 ft north of Old Cutler Road.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 83 ft, cased to 78 ft, screened 78 to 83 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 4.49 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 4.5 ft above NGVD.

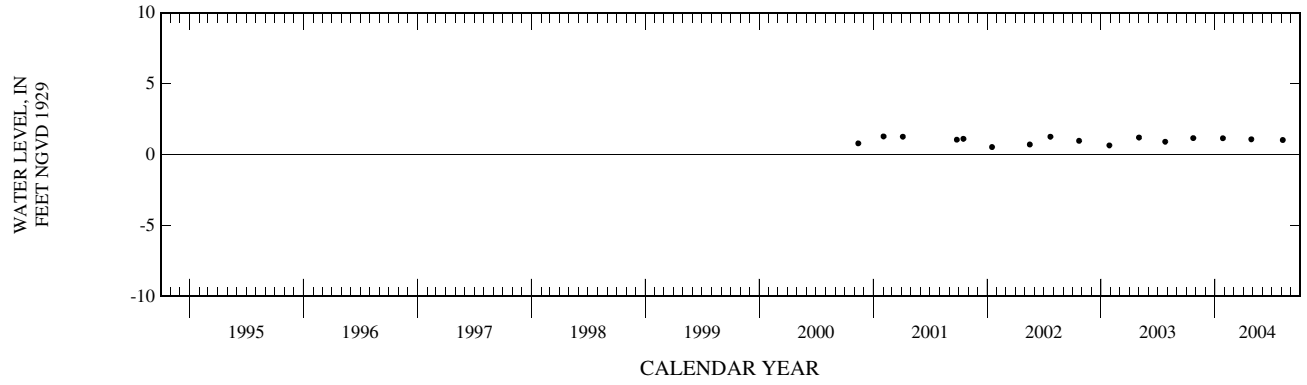
REMARKS.--Well is also used for annual salinity monitoring, including an annual induction log. Induction logs are used to assess the movement of the fresh-water/salt-water interface in ground water. See EXPLANATION OF THE RECORDS SECTION, RECORDS OF BULK CONDUCTIVITY in the front of the book. A calibration error was found to have affected some of the historical bulk conductivity logs. Bulk conductivity logs prior to the 2002 water year had been calibrated to a standard of 1,301 mS/m. For these calibrations an internal setting limited the probe response to 1,000 mS/m. Data for the affected years was corrected by applying a 0.7686 multiplier. Annual induction logs began in April 2000. Water-level measurements began in November 2000. Salinity monitoring began in May 2003.

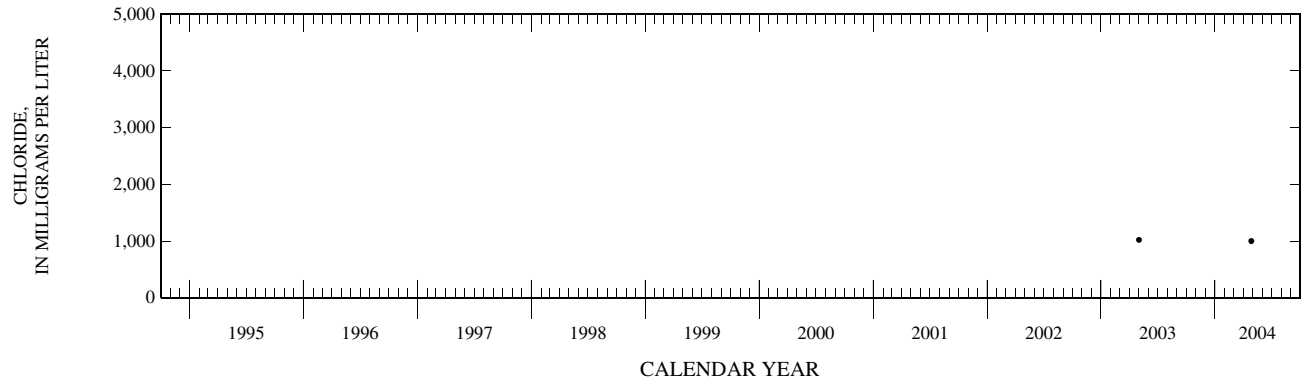
PERIOD OF RECORD.--April 2000 to current year. See REMARKS.

EXTREMES FOR THE PERIOD OF RECORD.--Highest water level measured, 1.28 ft NGVD, Feb. 2, 2001; lowest, 0.53 ft NGVD, Jan. 16, 2002.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

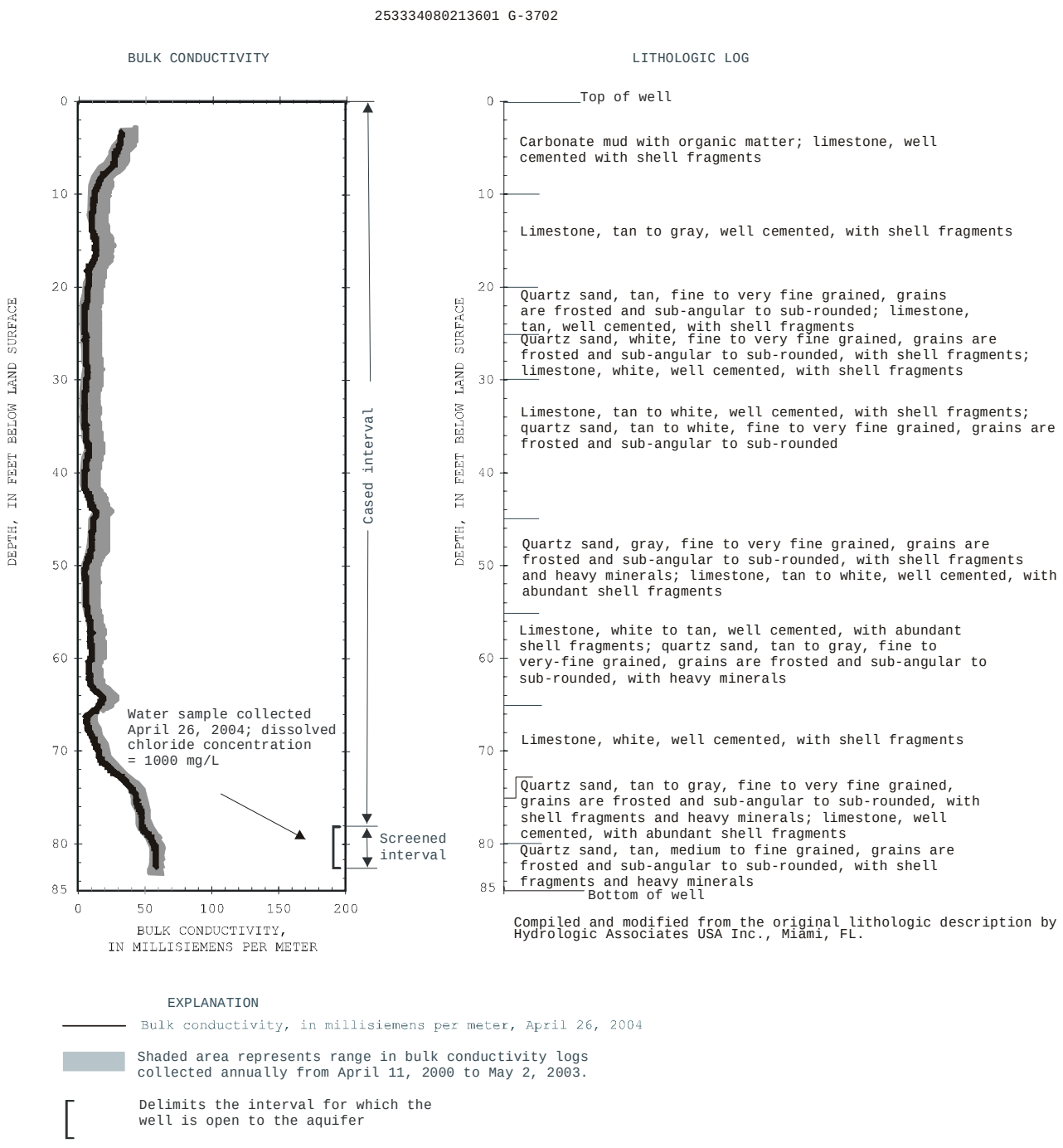
Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
23...	1032	1.16	--	--
JAN				
26...	0945	1.15	--	--
APR				
26...	1030	1.08	3,370	1,000
AUG				
05...	0824	1.03	--	--





MIAMI-DADE COUNTY—Continued

WELL NUMBER.--253334080213601. Local Number G 3702. USGS Observation Well near Cutler Ridge, FL.-Continued



Compiled and modified from the original lithologic description by Hydrologic Associates USA Inc., Miami, FL.

EXPLANATION

Bulk conductivity, in millisiemens per meter, April 26, 2004

Shaded area represents range in bulk conductivity logs collected annually from April 11, 2000 to May 2, 2003.

[Delimits the interval for which the well is open to the aquifer

MIAMI-DADE COUNTY—Continued

WELL NUMBER.--253400080340401. Local Number G 3437. USGS Observation Well near Homestead, FL.

LOCATION.--Lat 25°34'00", long 80°34'04", in SE ¼ SW ¼ sec.7, T.56 S., R.38 E., Hydrologic Unit 03090202, 1.5 mi west of Levee 31, 0.15 mi north of SW 216th Street and 10 mi northwest of Homestead.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 5 in., depth 12.5 ft, cased to 12.5 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of base, 9.63 ft above National Geodetic Vertical Datum of 1929. Prior to April 9, 2002, measuring point was 7.89 ft above NGVD. From April 1, 1988 to February 14, 1996, measuring point was incorrectly considered to be top of base 7.82 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 6.8 ft above NGVD.

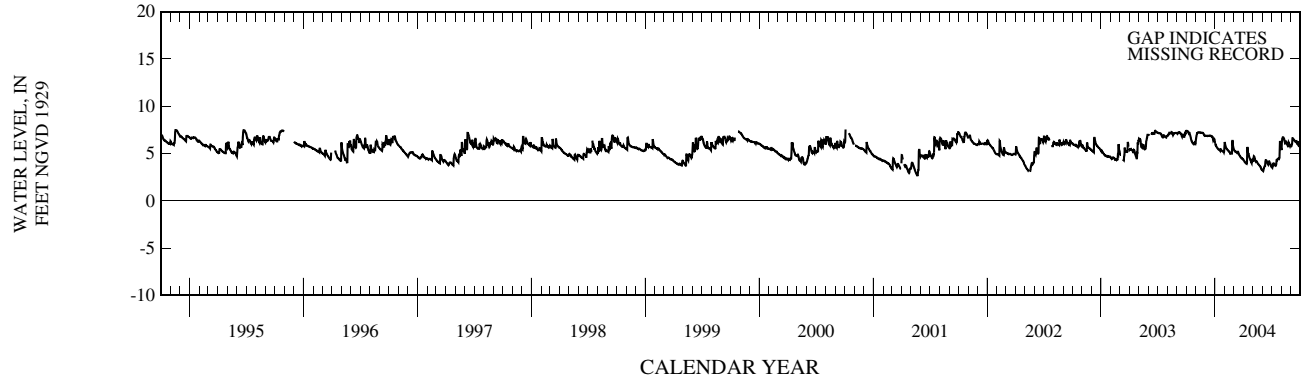
REMARKS.--During a major storm that occurred on October 3-4, 2000, heavy rains caused flooding that caused the float to come out of the well. The extreme water level shown for the period of record, on October 5, 2000, was determined by a manual depth to water measurement made from the measuring point. The actual highest water level that occurred could not be determined. On April 9, 2002, the shelter was rebuilt to prevent water from rising over the base in case of an extreme rain event. The figures of water level as elevation, in feet NGVD, between the period April 1, 1988 to September 30, 1995 are in error. Corrected records are in files of the U.S. Geological Survey. See DATUM.

PERIOD OF RECORD.--October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.68 ft NGVD, Oct. 5, 2000; lowest daily maximum water level, 1.61 ft NGVD, May 23, 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	7.36	7.17	6.89	5.76	5.61	5.21	4.15	4.68	3.43	3.82	6.71	6.61
10	7.19	7.26	6.89	5.51	5.39	5.11	3.92	4.21	4.16	3.84	6.39	6.45
15	6.63	7.21	6.90	5.38	5.21	5.20	5.07	4.08	4.16	3.92	6.34	6.31
20	6.16	7.20	6.83	5.40	5.02	4.79	4.62	3.83	4.01	4.42	5.93	6.19
25	6.07	7.09	6.56	5.22	6.34	4.52	4.16	3.62	3.97	4.54	6.11	5.83
EOM	6.34	6.88	6.22	5.76	5.54	4.39	4.24	3.25	3.57	5.51	5.77	6.25
MAX	7.40	7.26	6.90	6.10	6.34	5.47	5.70	4.72	4.30	6.32	6.71	6.61



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--253457080195501. Local Number G 3612. USGS Observation Well near Cutler Ridge, FL.

LOCATION.--Lat 25°34'57", long 80°19'55", in SW ¼ SW ¼ SW ¼ sec.3, T.56 S., R.40 E., Hydrologic Unit 03090202, at St. Timothy's Church, east of intersection of SW 86th Avenue and SW 198th Street, 6 ft south of SW 198th Street, 2.2 mi east of U.S. Highway 1 and the Florida Turnpike.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 62 ft, cased to 56 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 8.07 ft above National Geodetic Vertical Datum of 1929. Prior to the 2000 water year, measuring point was estimated to be 5 ft above NGVD from the topographic map.

LAND-SURFACE DATUM.--Land surface is approximately 8.1 ft above NGVD.

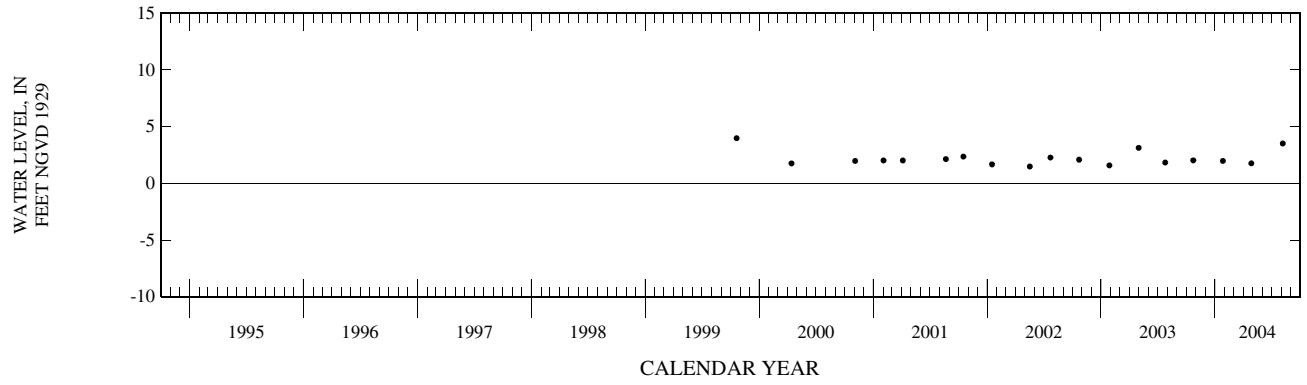
REMARKS.--Well is also used for salinity monitoring, including an annual induction log. Induction logs are used to assess movement of the fresh-water/salt-water interface in ground water. See EXPLANATION OF THE RECORDS SECTION, RECORDS OF BULK CONDUCTIVITY in the front of this book. A calibration error was found to have affected some of the historical bulk conductivity logs. Bulk conductivity logs prior to the 2002 water year had been (with the exception of 1998) calibrated to a standard of 1,301 mS/m. For these calibrations an internal setting limited the probe response to 1,000 mS/m. Data for the affected years was corrected by applying a 0.7686 multiplier. Salinity monitoring began September 1995. Water-level measurements began October 1999. The 5 ft estimated measuring point elevation was never used for water level elevation calculations.

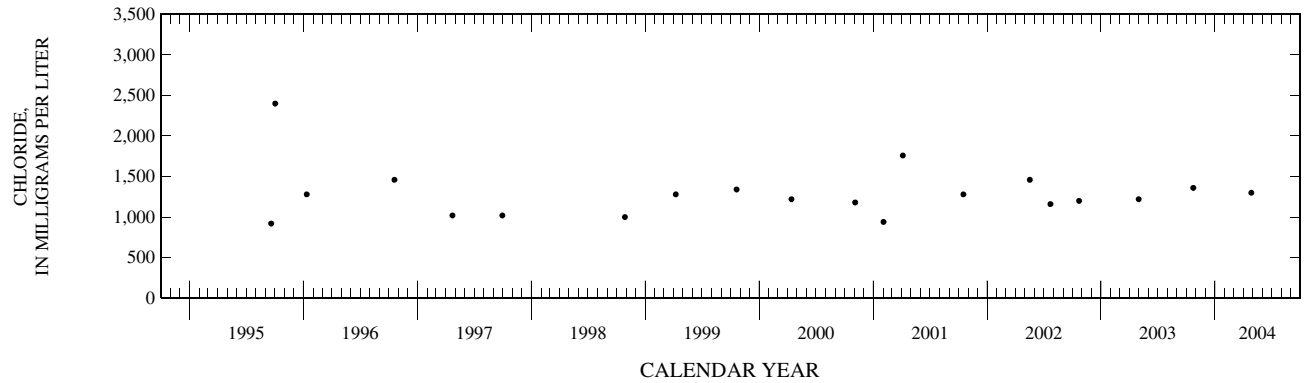
PERIOD OF RECORD.--September 1995 to current year. See REMARKS.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.97 ft NGVD, Oct. 20, 1999; lowest, 1.48 ft NGVD, May 17, 2002.

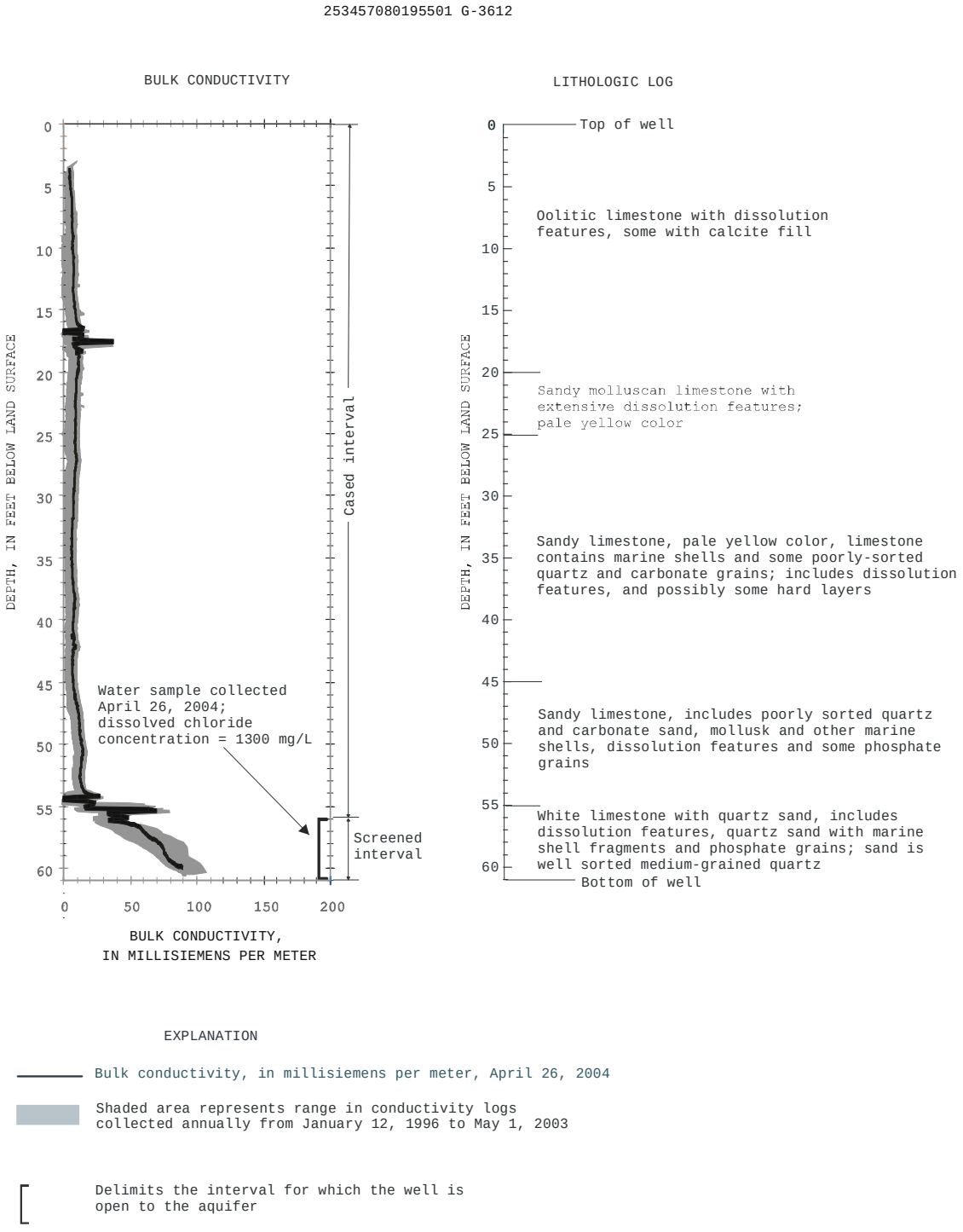
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
23...	1010	2.02	4,370	1,360
JAN				
26...	1005	1.97	--	--
APR				
26...	1215	1.76	4,220	1,300
AUG				
05...	0805	3.51	--	--





WELL NUMBER.--253457080195501. Local Number G 3612. USGS Observation Well near Cutler Ridge, FL.-Continued



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--253537080284401. Local Number G 757A. USGS Observation Well near Homestead, FL.

LOCATION.--Lat 25°35'37", long 80°28'44", in NE ¼ NE ¼ sec.1, T.56 S., R.38 E., Hydrologic Unit 03090202, at southwest corner of Eureka Drive and State Road 997 (Krome Avenue), 8.7 mi north of Homestead.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 33 ft, cased to 12.4 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 12.56 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 9.9 ft above National Geodetic Vertical Datum of 1929.

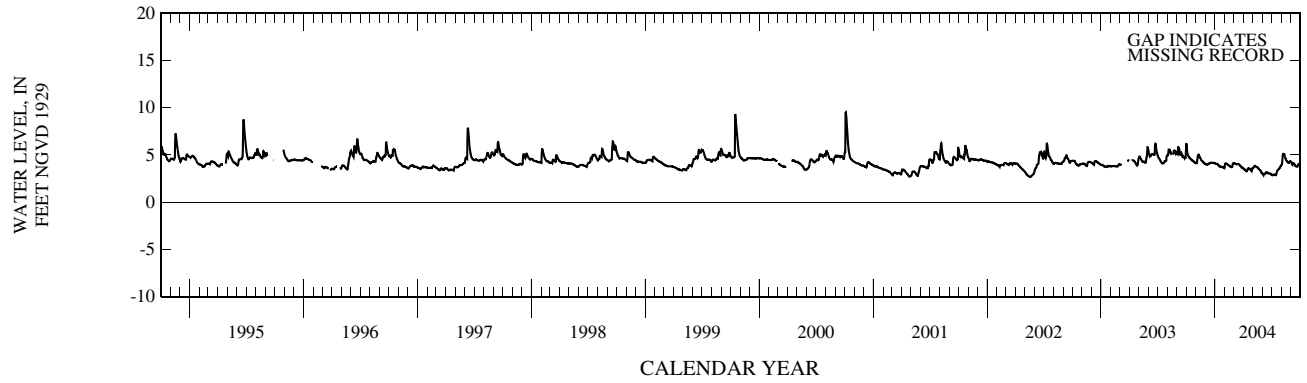
REMARKS.--Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey. The well was originally open to 33 ft. The open interval has collapsed or become obstructed at a depth of 12.5 ft. Tests indicate the well is in good communication with the aquifer.

PERIOD OF RECORD.--January 1956 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 9.60 ft NGVD, Sept. 10, 1960; lowest, 0.02 ft NGVD, May 13, 14, 1971.

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	5.12	4.52	3.97	4.06	4.09	4.09	3.43	3.79	2.99	2.86	5.07	3.94
10	4.73	5.00	4.05	3.96	3.99	4.02	3.31	3.80	3.03	2.91	5.02	4.10
15	4.57	4.64	4.14	3.81	3.84	4.05	3.54	3.71	3.16	2.93	4.52	3.82
20	4.42	4.37	4.18	3.74	3.72	3.91	3.55	3.52	3.05	3.40	4.28	3.76
25	4.29	4.17	4.17	3.72	3.75	3.71	3.36	3.33	3.04	3.56	4.14	3.99
EOM	4.14	4.07	4.11	3.63	4.13	3.58	3.59	3.06	2.89	3.91	4.27	4.19
MAX	6.16	5.02	4.18	4.11	4.13	4.13	3.59	3.84	3.16	3.91	5.12	4.25



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--253539080320501. Local Number G 3628. USGS Observation Well near Miami, FL.

LOCATION.--Lat 25°35'39", long 80°32'05", SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.33, T.55 S., R.38 E. Hydrologic Unit 03090202, located 1.7 mi south on first road west of SW 205th Avenue Southwest of SW 168th Street, 0.7 mi west of pump station S-331. The station is located 0.5 mi west of the L-31 levee, 20 ft north of the red gate in the field by the curve in the road. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 10 in., depth 12 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of base, 10.51 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 7.1 ft above NGVD. (Corrected).

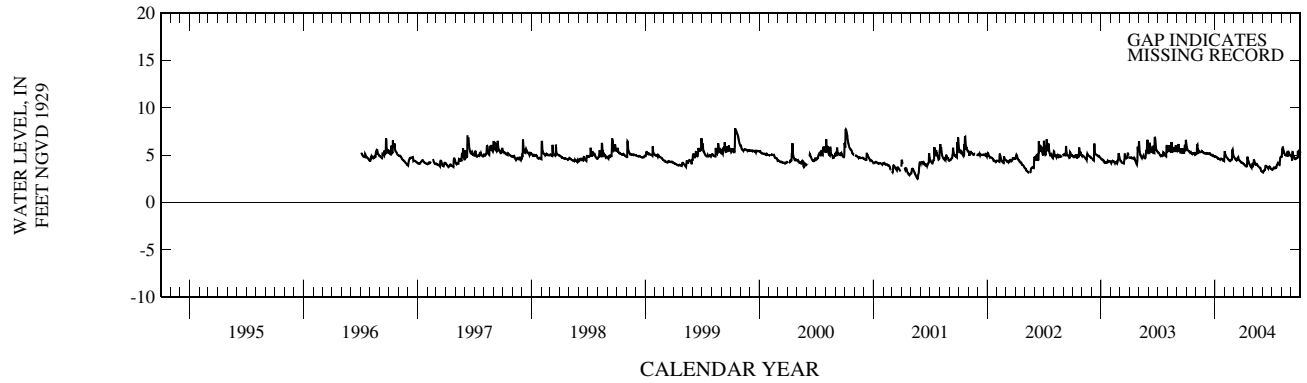
REMARKS.--Landnet information is not available on U.S. Geological Survey topographic maps. Landnet was detrmined using a map prepared by Metropolitan Dade County, Public Works Department, 1989.

PERIOD OF RECORD.--July 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.85 ft NGVD, Oct. 15, 1999; lowest, 2.52 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	5.60	6.12	5.19	4.81	4.89	4.64	3.96	4.47	3.34	3.59	5.92	5.33
10	5.42	5.37	5.19	4.65	4.64	4.45	3.83	4.01	3.87	3.67	5.20	4.84
15	5.33	5.33	5.20	4.59	4.45	4.79	4.57	4.01	3.79	3.70	4.99	4.71
20	5.12	5.43	5.04	4.65	4.49	4.44	4.09	3.79	3.56	4.15	4.94	4.71
25	5.15	5.26	4.93	4.48	5.51	4.23	3.76	3.65	3.73	4.00	5.17	4.72
EOM	5.30	5.19	4.91	4.99	4.96	4.13	4.09	3.25	3.54	4.84	4.96	5.21
MAX	6.07	6.12	5.22	4.99	5.57	4.88	4.76	4.48	3.88	4.84	5.92	5.63



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--253549080214101. Local Number S 182A. USGS Observation Well near Peters, FL.

LOCATION.--Lat 25°35'49", long 80°21'41", in NW $^1/_4$ NW $^1/_4$ sec.5, T.56 S., R.40 E., Hydrologic Unit 03090202, on SW 185th Terrace west of SW 104th Avenue, 0.1 mi north of Quail Roost Drive, 0.4 mi west of U.S. Highway 1, and 16.4 mi southwest of Miami.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 33 ft, cased to 8.7 ft. (Corrected).

REVISED RECORDS.--WDR FL-84-2B:1983

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 13.47 ft above National Geodetic Vertical Datum of 1929. From May 31, 1995 to May 23, 2000, top of base was 13.62 ft above NGVD. From May 31, 1995 to September 1995, top of base was incorrectly considered to be 13.53 ft above NGVD. From October 1994 to May 1995, top of base was 13.53 ft NGVD. From July 1981 to October 1994, measuring point was top of casing, 13.53 ft above NGVD. Prior to July 1981, top of casing was 14.14 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 11.0 ft above NGVD. (Corrected).

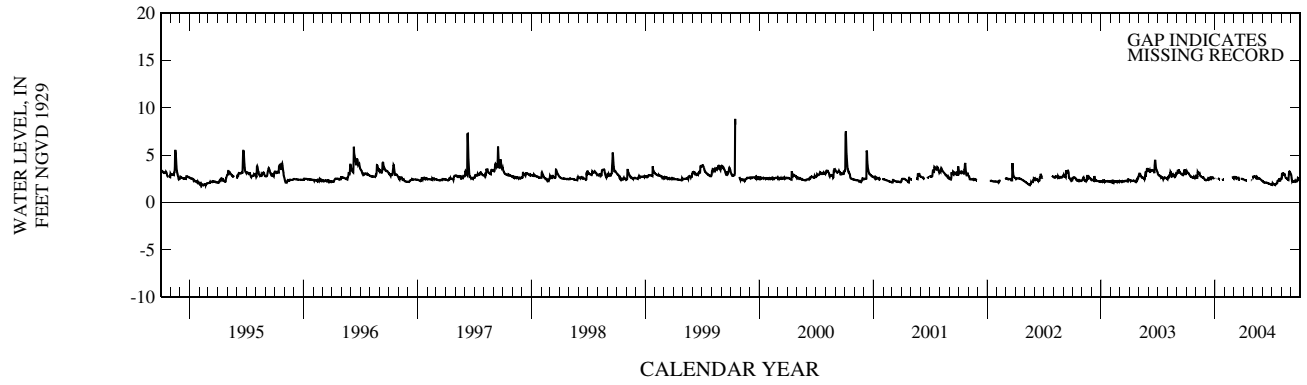
REMARKS.--Records of water levels prior to January 1957 are available in files of the U.S. Geological Survey. The well was published as S-182 prior to the 1975 water year. The well was damaged May 23, 1995, reconstructed May 31, 1995; also damaged in February 2000, reconstructed on May 23, 2000. The figures of water levels as elevation, in ft NGVD, from June 1995 to September 1995 are in error. Corrected records are in the files of the U. S. Geological Survey. See DATUM. The well was originally open to the aquifer from 9 to 51 ft. The open interval has collapsed or become obstructed at a depth of 28 ft. Measured well depth at 32.7 ft, below NGVD, in October 17, 1940 and 30.4 ft below top of base on May 27, 2003.

PERIOD OF RECORD.--January 1940 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 10.70 ft NGVD, Sept. 10, 1960; lowest, 0.44 ft below NGVD, June 21, 1945.

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	3.19	2.74	2.38	---	---	2.64	2.38	2.74	2.14	1.98	3.07	2.31
10	2.97	2.97	2.56	2.56	---	2.61	2.32	2.73	2.12	1.88	2.98	2.22
15	2.74	2.80	2.56	2.47	---	2.63	---	2.66	2.09	1.98	2.59	2.28
20	2.65	2.69	2.55	---	---	---	---	2.56	2.02	2.27	2.47	2.33
25	2.72	2.61	2.63	2.40	---	2.52	2.37	2.46	1.95	2.56	3.25	2.39
EOM	2.67	2.40	---	---	2.59	2.46	---	2.29	1.89	2.52	3.01	2.30
MAX	3.29	3.24	---	---	---	---	---	2.83	2.27	2.56	3.29	2.86



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--253632080321101. Local Number G 3627. USGS Observation Well near Miami, FL.

LOCATION.--Lat 25°36'32", long 80°30'11", NE ¼ NE ¼ NW ¼ sec.35 T.55 S., R.38 E., Hydrologic Unit 03090202, located on the southwest corner of SW 168th Street and SW 192nd Avenue, 1.5 mi west of State Road 997 (Krome Avenue).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 10 in., depth 12 ft, cased to 10.8 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of base, 10.95 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 7.9 ft above NGVD.

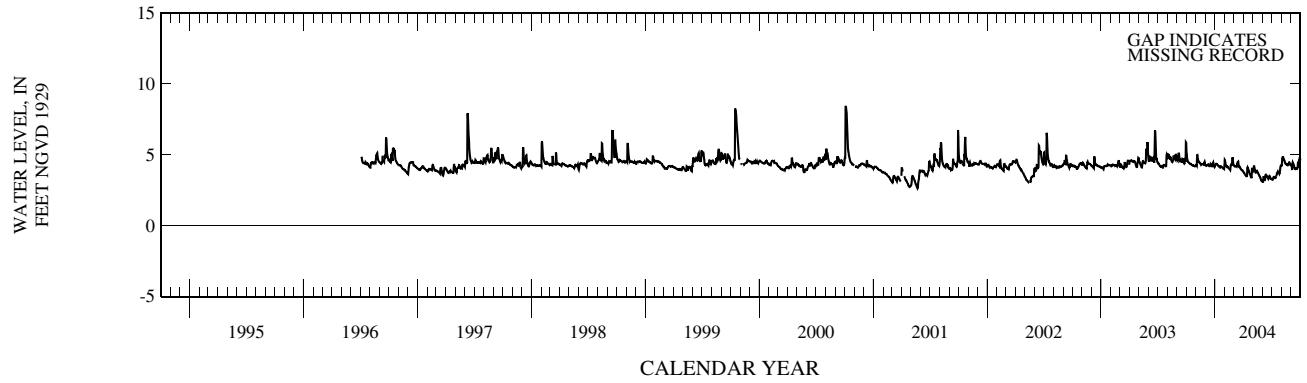
REMARKS.--The well was reported as originally open to the aquifer from 10.8 to 12 ft. The open interval of this well has become collapsed or obstructed at a depth of 9.6 ft.

PERIOD OF RECORD.--July 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.27 ft NGVD, Oct. 15, 1999; lowest, 2.65 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	4.59	4.98	4.25	4.35	4.25	4.18	3.67	4.19	3.44	3.38	4.81	4.35
10	4.42	4.51	4.33	4.26	4.17	4.17	3.51	3.75	3.57	3.41	4.61	4.23
15	4.37	4.38	4.24	4.16	4.02	4.53	4.07	3.83	3.51	3.49	4.36	4.04
20	4.27	4.36	4.25	4.20	4.22	4.14	3.75	3.61	3.30	3.82	4.28	4.05
25	4.23	4.31	4.41	4.07	4.58	3.95	3.45	3.39	3.45	3.66	4.48	4.18
EOM	4.25	4.31	4.20	4.26	4.30	3.83	3.98	3.16	3.30	4.26	4.29	4.61
MAX	5.20	4.98	4.45	4.37	4.84	4.53	4.13	4.20	3.61	4.26	4.82	4.77



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--253708080304201. Local Number G 3626. USGS Observation Well near Miami, FL.

LOCATION.--Lat 25°37'06", long 80°30'41", SW $^1/_4$ NW $^1/_4$ sec. 26 T.55 S., R.38 E., Hydrologic Unit 03090202, located 20 ft east of SW 197th Avenue, 1.3 mi south of Howard Drive (SW 136th Street), 2.1 mi west of State Road 997 (Krome Avenue).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 10 in., depth 12 ft, cased to 10.8 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of base, 10.74 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 7.3 ft above NGVD.

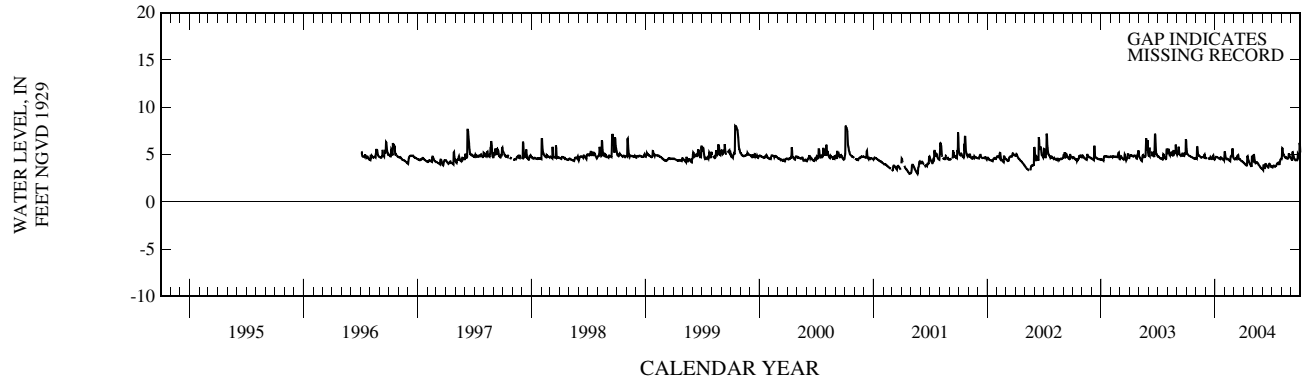
REMARKS.--The well was reported originally open to the aquifer from 10.8 to 12 ft. The open interval has become obstructed or collapsed at a depth of 9.2 ft.

PERIOD OF RECORD.--July 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.03 ft NGVD, Oct. 15, 1999; lowest, 2.96 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	5.05	5.80	4.63	4.73	4.59	4.55	4.03	4.81	3.85	3.81	5.15	5.23
10	4.86	4.88	4.69	4.69	4.55	4.54	3.86	4.07	4.01	3.75	4.86	4.68
15	4.79	4.76	4.57	4.58	4.38	4.93	4.64	4.15	3.82	3.81	4.71	4.44
20	4.70	4.72	4.57	4.69	4.75	4.50	4.15	3.90	3.61	4.11	4.58	4.44
25	4.60	4.70	4.86	4.50	5.43	4.31	3.81	3.65	3.95	3.91	5.05	4.62
EOM	4.64	4.70	4.52	4.86	4.63	4.20	4.52	3.49	3.73	4.55	4.60	5.23
MAX	5.65	5.86	---	4.86	5.65	4.93	4.87	5.05	4.03	4.55	5.69	6.24



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--253710080184701. Local Number G 3611. USGS Observation Well near Cutler, FL.

LOCATION.--Lat 25°37'10", long 80°18'47", in SW ¼ NE ¼ SW ¼ sec.26, T.55 S., R.40 E., Hydrologic Unit 03090202, adjacent to Deering Estate, 6 ft east of SW 74th Avenue, 40 ft north of SW 163rd Street, 0.1 mi west of Old Cutler Road, 2 mi east of U.S. Highway 1.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 100 ft, cased to 95 ft, screened 95 to 100 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 6.98 ft above National Geodetic Vertical Datum of 1929. Prior to March 2000, measuring point was estimated to be 9.00 ft above NGVD from a topographic map. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 7.0 ft above NGVD.

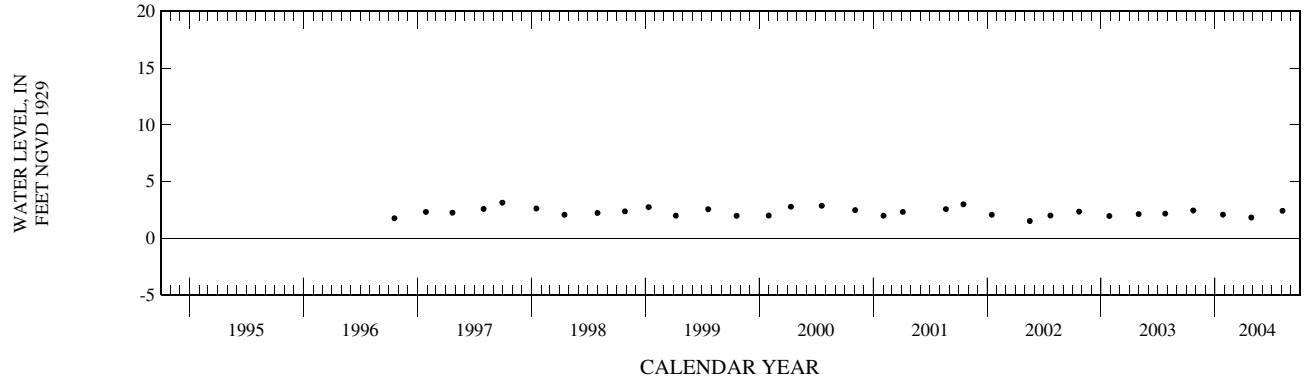
REMARKS.--Well is also used for quarterly salinity monitoring, including an annual induction log. Induction logs are used to assess movement of the fresh-water/salt-water interface in ground water. See EXPLANATION OF THE RECORDS SECTION, RECORDS OF BULK CONDUCTIVITY in the front of this book. A calibration error was found to have affected some of the historical bulk conductivity logs. Bulk conductivity logs prior to the 2002 water year had been (with the exception of 1998) calibrated to a standard of 1,301 mS/m. For these calibrations an internal setting limited the probe response to 1,000 mS/m. Data for the affected years was corrected by applying a 0.7686 multiplier. Salinity monitoring began August 1995. Water-level measurements began in October 1996. Water-level elevation data collected prior to March 14, 2000, have been computed using the measuring point established on March 14, 2000 and are in the files of the U.S. Geological Survey.

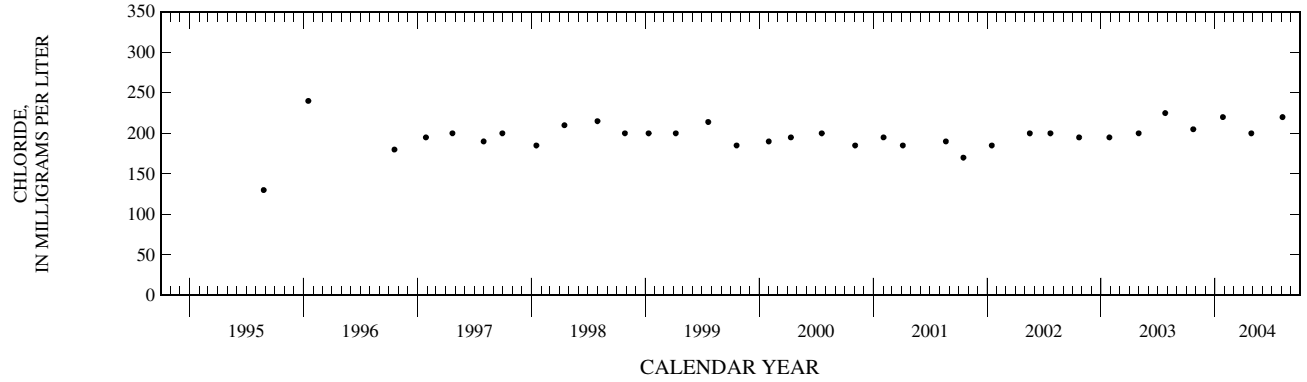
PERIOD OF RECORD.--August 1995 to current year. See REMARKS.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.00 ft NGVD, Oct. 16, 2002; lowest, 1.53 ft NGVD, May 17, 2002.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
23...	1359	2.46	974	205
JAN				
26...	1022	2.09	1,010	220
APR				
26...	0906	1.84	965	200
AUG				
04...	1320	2.43	1,090	220

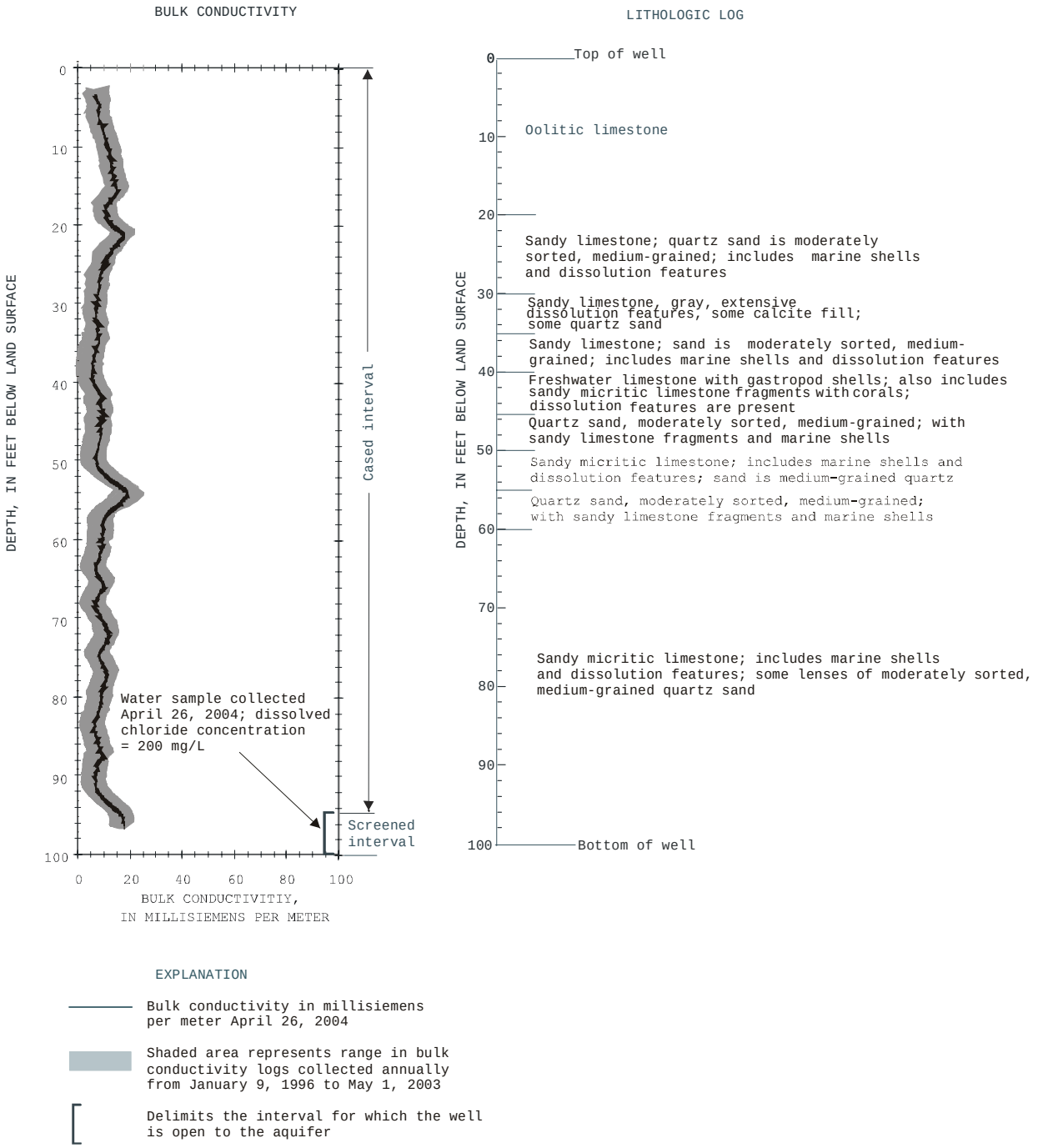




MIAMI-DADE COUNTY—Continued

WELL NUMBER.--253710080184701. Local Number G 3611. USGS Observation Well near Cutler, FL.-Continued

253710080184701 G-3611



EXPLANATION

Bulk conductivity in millisiemens per meter April 26, 2004

Shaded area represents range in bulk conductivity logs collected annually from January 9, 1996 to May 1, 2003

[Delimits the interval for which the well is open to the aquifer

MIAMI-DADE COUNTY—Continued

WELL NUMBER.--253718080192301. Local Number G 860. USGS Observation Well near Perrine, FL.

LOCATION.--Lat 25°37'18", long 80°19'23", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.27, T.55 S., R.40 E., Hydrologic Unit 03090202, at Kahn Road and SW 160th Street, 1.2 mi east of U.S. Highway 1, 1.7 mi northeast of Perrine, and 13 mi southwest of Miami.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 20 ft, cased to 10.5 ft.

INSTRUMENTATION.-- Electronic data logger.

DATUM.--Measuring point: Top of base, 12.95 ft above National Geodetic Vertical Datum of 1929. Prior to October 1982 measuring point was top of casing, 12.93 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 11.0 ft above NGVD. (Corrected).

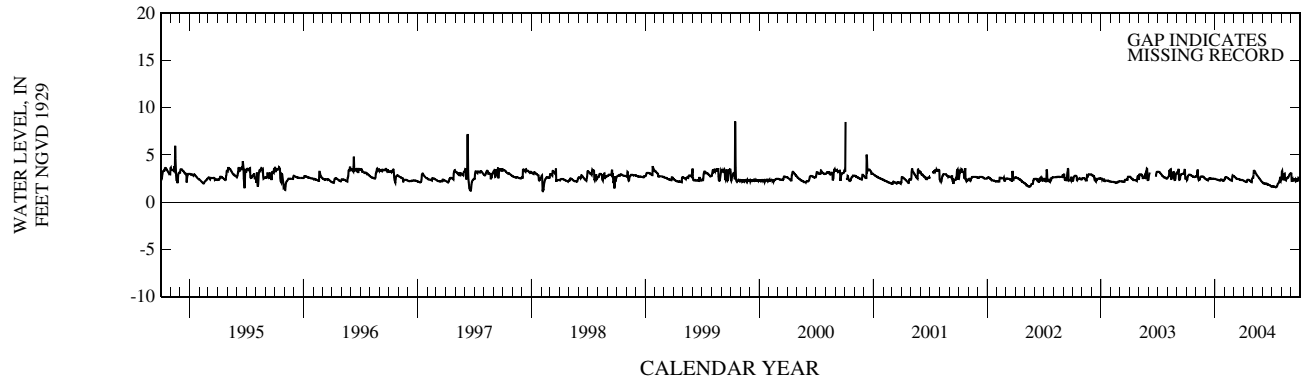
REMARKS.--Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--March 1959 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 9.45 ft NGVD, Sept. 23, 1960; lowest, 0.38 ft NGVD, May 22, 1971.

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	2.68	2.91	2.38	2.41	2.66	2.63	2.20	3.30	1.99	1.68	2.43	2.29
10	2.91	2.42	2.43	2.36	2.56	2.50	2.15	3.08	1.96	1.62	2.99	2.38
15	2.85	2.67	2.56	2.30	2.44	2.46	2.38	2.81	1.95	1.59	2.40	2.41
20	2.75	2.72	2.46	2.41	2.34	2.39	2.32	2.60	1.85	1.96	2.57	2.41
25	2.68	2.67	2.49	2.30	2.69	2.34	2.17	2.37	1.79	2.20	2.82	2.56
EOM	2.74	2.50	2.47	2.39	2.77	2.31	2.56	2.13	1.67	2.45	3.00	2.37
MAX	2.91	3.45	2.56	2.46	2.83	2.73	2.56	3.40	2.09	2.67	3.29	3.11



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--253831080180206. Local Number G 3313E. USGS Observation Well near Pinecrest, FL.

LOCATION.--Lat 25°38'31", long 80°18'02", in NW $^1/_4$ NW $^1/_4$ NW $^1/_4$ sec.24, T.55 S., R.40 E., Hydrologic Unit 03090202, at USDA Agricultural Station, 50 ft east of fence along SW 67th Avenue, 75 ft north of intersection of SW 67th Avenue and SW 138th Terrace, 2.1 mi east of U.S. Highway 1.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 8.25 in. to a depth of 32 ft, diameter 7.5 in. from 32 to 114 ft, depth 114 ft, cased to 32 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 12.70 ft above National Geodetic Vertical Datum of 1929. Prior to March, 2000 measuring point was estimated to be 12 ft NGVD, from topographic map. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 12.7 ft above NGVD.

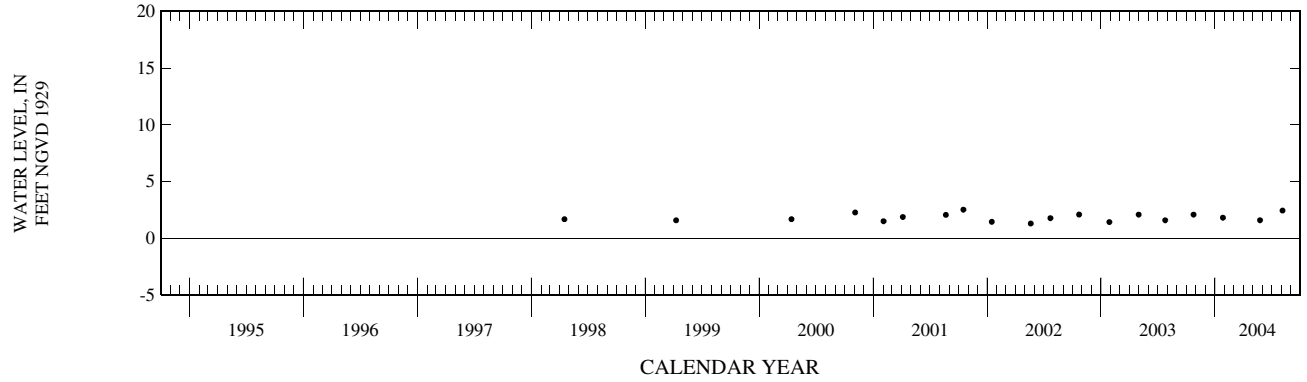
REMARKS.--Well is also used for annual salinity monitoring, including an annual induction log. Induction logs are used to assess movement of the fresh-water/salt-water interface in ground water. A calibration error was found to have affected some of the historical bulk conductivity logs. Bulk conductivity logs prior to the 2002 water year had been (with the exception of 1995 and 1998) calibrated to a standard of 1,301 mS/m. For these calibrations an internal setting limited the probe response to 1,000 mS/m. Data for the affected years was corrected by applying a 0.7686 multiplier. See EXPLANATION OF THE RECORDS SECTION, RECORDS OF BULK CONDUCTIVITY in the front of this book. The incorrect plot of bulk conductivity was published in Water Resources Data, Florida, Water Year 2000, Volume 2B. The correct plot is in the files of the U.S. Geological Survey. Water-level elevation data collected prior to March 14, 2000, have been computed using the measuring point established on March 14, 2000, and are in the files of the U. S. Geological Survey.

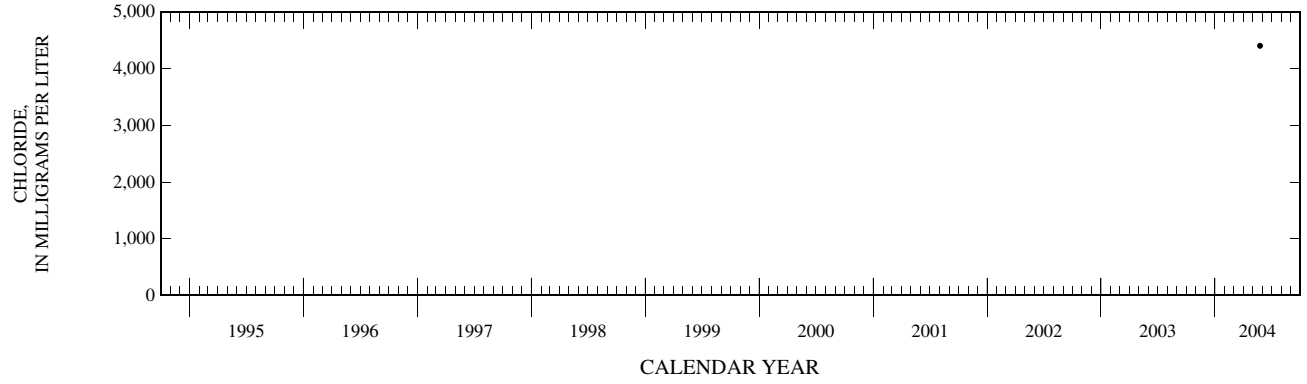
PERIOD OF RECORD.--October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.64 ft NGVD, Oct. 18, 1996; lowest, 1.31 ft NGVD, May 20, 2002.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

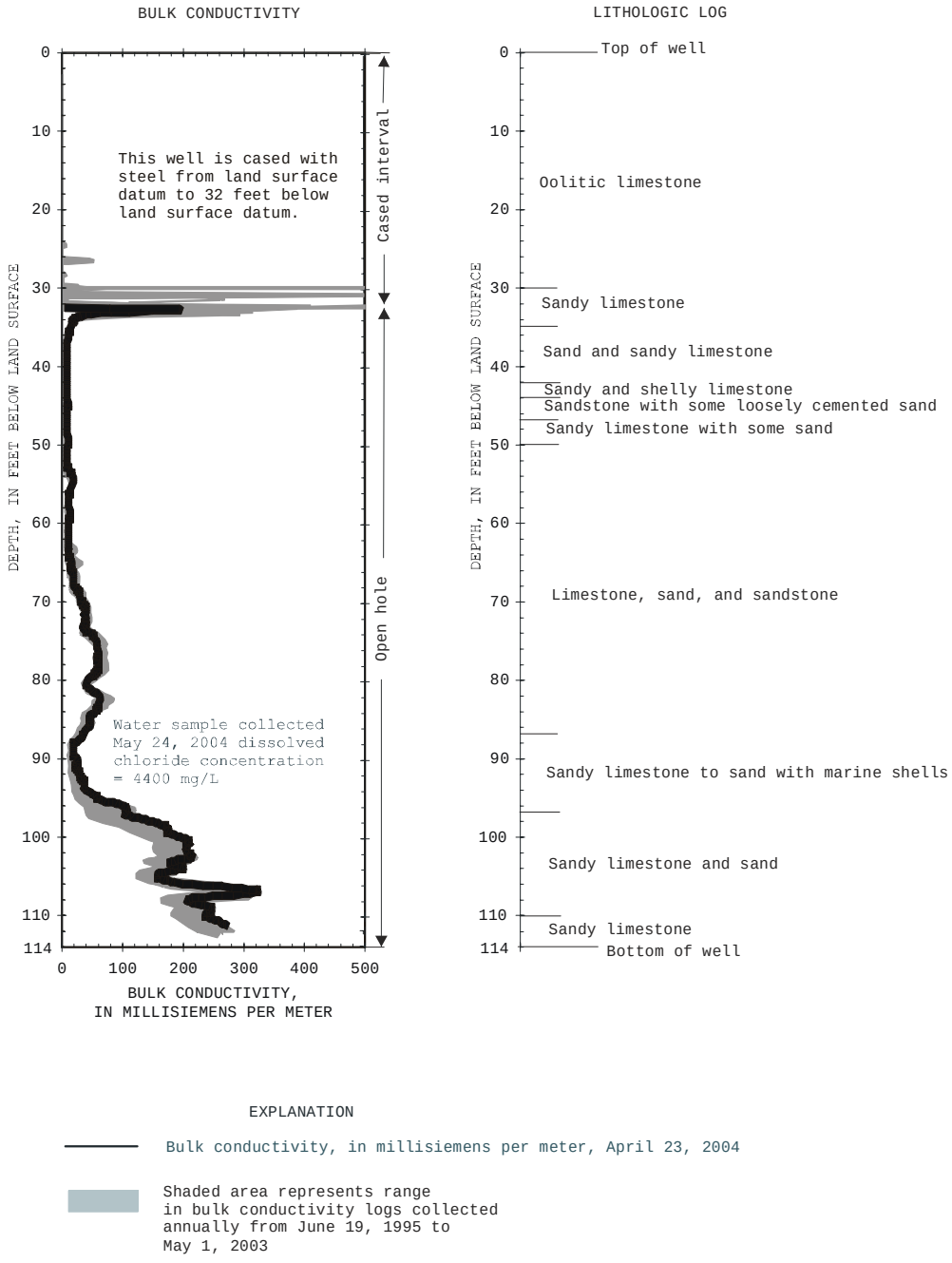
Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
24...	1345	2.09	--	--
JAN				
26...	1100	1.82	--	--
APR				
23...	1220	--	--	--
MAY				
24...	1054	1.60	14,100	4,400
AUG				
04...	1241	2.45	--	--





WELL NUMBER.--253831080180206. Local Number G 3313E. USGS Observation Well near Pinecrest, FL.-Continued

253831080180206 G-3313E



EXPLANATION

Bulk conductivity, in millisiemens per meter, April 23, 2004

Shaded area represents range in bulk conductivity logs collected annually from June 19, 1995 to May 1, 2003

MIAMI-DADE COUNTY—Continued

WELL NUMBER.--253902080202501. Local Number G 553. USGS Observation Well near Miami, FL.

LOCATION.--Lat 25°39'02", long 80°20'19", in NW ¼ NE ¼ SE ¼ sec.16, T.55 S., R.40 E., Hydrologic Unit 03090202, on the south side of SW 128th Street, 0.5 mi west of US Highway 1, 13 mi southwest of Miami.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in. from a depth of 0 to 79 ft, 5 in. from 79 to 91 ft. Depth 91 ft, cased to 36 ft, slotted casing 36 to 79 ft, open hole from 79 to 91 ft. (Corrected).

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 14.87 ft above National Geodetic Vertical Datum of 1929. From October 29, 1992 to November 23, 1999, top of base was 12.50 ft above NGVD. From October 29, 1992 to September 1995 measuring point was incorrectly considered to be top of casing, 12.76 ft above NGVD. From July 1970 to October 29, 1992, measuring point was top of casing, 12.76 ft above NGVD. From October 1975 to September 1979, top of casing was incorrectly reported as 15.11 ft above NGVD. Prior to June 25, 1970, measuring point was top of casing, 12.41 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 12.3 ft above NGVD. (Corrected).

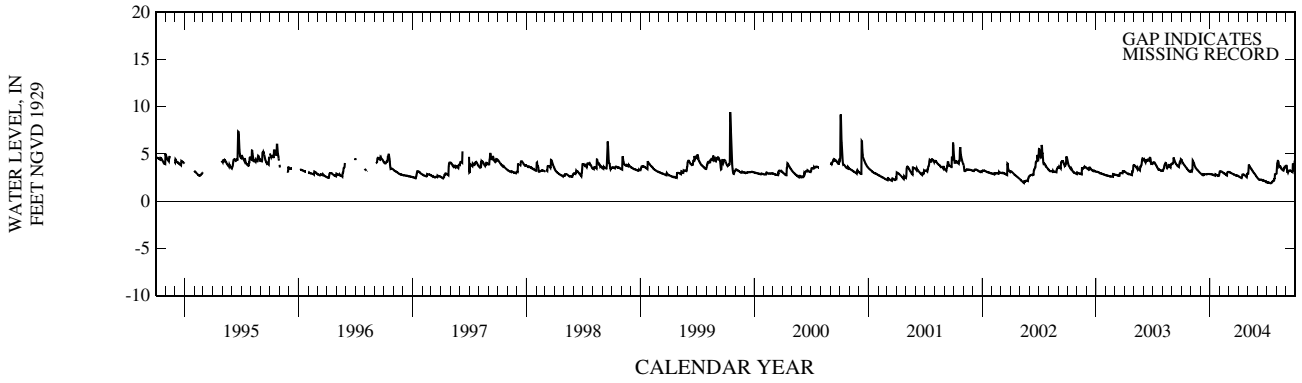
REMARKS.--Records of water levels prior to January 1957 are available in files of the U.S. Geological Survey. Based on a review of historical records, the published records of water level, in ft NGVD, from October 29, 1992 to April 12, 1996 are in error. Station was reconstructed June 1970, November 1992 and November 23, 1999. This well was originally open to the aquifer from 36 to 91 ft. The open interval has collapsed or become obstructed with sand at a depth of 30 ft. Well is still considered in good hydrologic communication with the aquifer. (Corrected).

PERIOD OF RECORD.--July 1947 to current year. (Corrected).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 11.06 ft NGVD, Oct. 5, 1948; lowest, 0.81 ft NGVD, May 14, 15, 1971.

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	4.10	3.34	2.84	2.84	3.15	3.04	2.56	3.72	2.31	1.98	4.26	3.11
10	3.85	4.03	2.84	2.80	3.05	2.95	2.46	3.52	2.28	1.93	3.65	3.23
15	3.60	3.59	2.86	2.73	2.94	2.87	2.83	3.26	2.23	1.92	3.53	3.23
20	3.38	3.34	2.86	2.79	2.81	2.78	2.76	3.00	2.18	2.11	3.30	3.12
25	3.19	3.16	2.88	2.72	3.03	2.69	2.61	2.78	2.11	2.40	3.42	3.52
EOM	3.21	2.99	2.87	2.98	3.10	2.67	2.87	2.51	2.05	2.88	3.61	4.24
MAX	4.37	4.32	2.96	2.98	3.16	3.10	2.89	3.87	2.47	2.88	4.27	4.24



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--253937080304001. Local Number G 596. USGS Observation Well near Homestead, FL.

LOCATION.--Lat 25°38'16", long 80°30'44", in SW ¼ SW ¼ sec.14, T.55 S., R.38 E., Hydrologic Unit 03090202, on SW 197th Avenue, 70 ft north of Howard Drive, 2 mi west of State Road 997 (Krome Avenue), and 15.5 mi north of Homestead.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 16 ft, cased to 16 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of flange, 10.76 ft above National Geodetic Vertical Datum of 1929. From October 21, 1992 to September 1, 1994, the measuring point was top of shelf, 10.45 ft above NGVD. From October 1990 to October 20, 1992, top of shelf was 10.62 ft above NGVD. From November 21, 1986 to October 1, 1990, measuring point was top of base 10.59 ft above NGVD. Measuring point of original well G-596, in service prior to November 20, 1986 was top of shelf, 9.10 ft above NGVD. Prior to October 1978, measuring point was incorrectly considered to be 10.32 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 8.0 ft above NGVD.

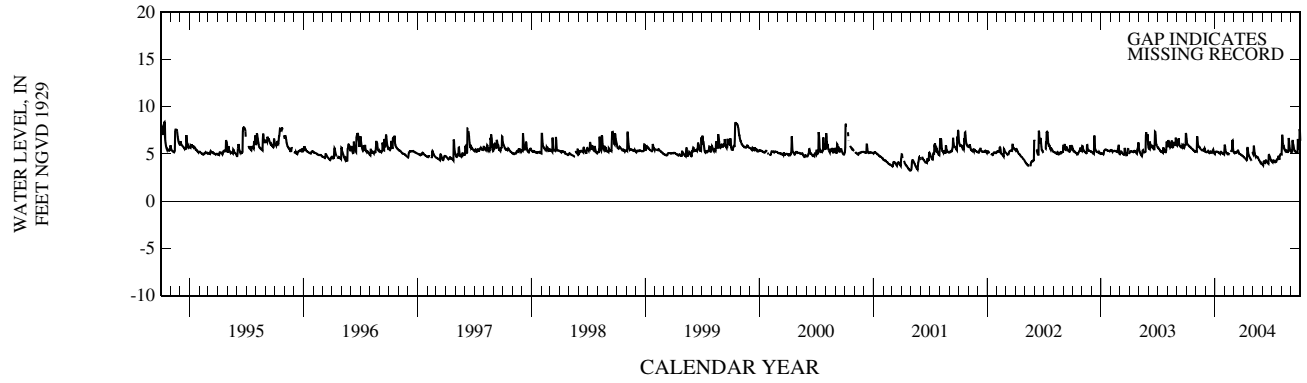
REMARKS.--The figures of water levels as elevation, in ft NGVD, prior to October 1978 are in error. Corrected records are in files of the U.S. Geological Survey. Current well is a replacement well, drilled 250 ft east of original site and surveyed on November 21, 1986. Data for this well is published under the original well name and station ID number. The station at the current site was destroyed and reconstructed October 22, 1992 and September 2, 1994. Records of water levels prior to January 1957 are available in files of the U.S. Geological Survey. See DATUM.

PERIOD OF RECORD.--January 1949 to November 1986 (orginal site), November 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.37 ft NGVD, Oct. 12, 1994; lowest, 0.56 ft NGVD, May 14, 1971.

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	6.02	6.72	5.18	5.22	5.18	5.08	4.57	5.50	4.20	4.31	6.11	6.38
10	5.81	5.75	5.28	5.21	5.08	5.13	4.38	4.74	4.26	4.16	5.57	5.56
15	5.66	5.54	5.18	5.08	4.96	5.36	5.33	4.68	4.18	4.20	5.38	5.24
20	5.50	5.39	5.16	5.24	5.22	5.00	4.73	4.40	3.97	4.46	5.22	5.15
25	5.34	5.34	5.36	5.01	6.40	4.87	4.38	4.11	4.63	4.38	6.30	5.47
EOM	5.29	5.32	4.98	5.46	5.22	4.74	5.22	3.91	4.30	4.98	5.25	6.39
MAX	6.65	6.87	5.44	5.46	---	5.36	---	5.88	4.90	4.98	7.02	7.62



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--253952080321501. Local Number G 3272. USGS Observation Well near Homestead, FL.

LOCATION.--Lat 25°39'52", long 80°32'21", in NE $^1/_4$ NW $^1/_4$ sec.9, T.55 S., R.38E., Hydrologic Unit 03090202, on north side of 104th Street, 2 mi north and 0.5 mi west of intersection of Howard Drive and SW 207th Avenue.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 10 ft, cased to 7.5 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of base, 9.43 ft above National Geodetic Vertical Datum of 1929. From February 1985 to April 22, 2000, measuring point was top of base, 9.40 ft above NGVD. Prior to February 1985, measuring point was top of base, 9.33 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 7.0 ft above NGVD.

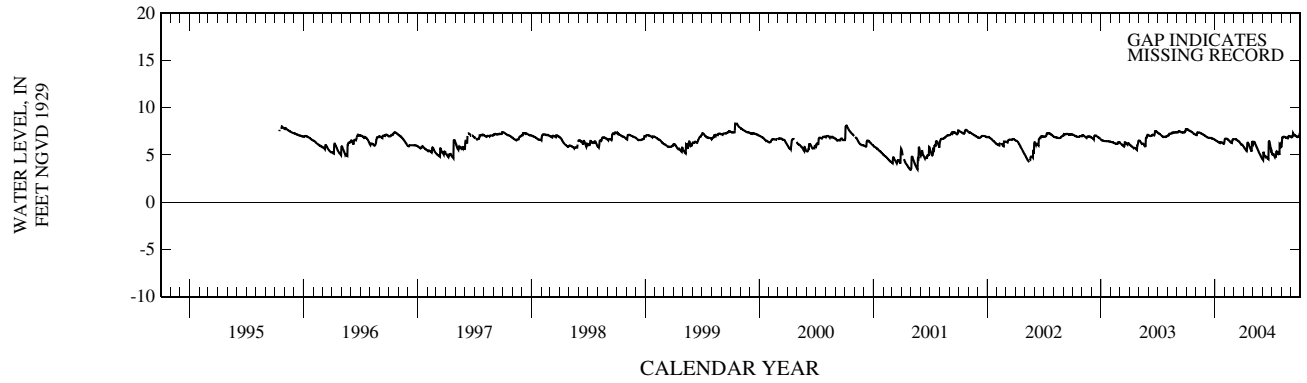
REMARKS.--Station reconstructed April 23, 2000. See DATUM.

PERIOD OF RECORD.--June 1983 to February 1985 (daily), October 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.42 ft NGVD, Oct. 15, 1999; lowest, 3.42 ft NGVD, Apr. 30, 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	7.68	7.36	6.91	6.48	6.72	6.67	5.70	6.38	5.19	5.11	6.87	7.00
10	7.56	7.38	6.81	6.40	6.65	6.61	5.44	6.09	4.75	4.81	6.92	7.14
15	7.49	7.31	6.80	6.30	6.48	6.47	6.29	5.70	4.75	5.35	6.85	7.01
20	7.38	7.22	6.77	6.35	6.31	6.31	5.92	5.31	4.56	5.09	6.80	6.91
25	7.22	7.11	6.72	6.25	6.52	6.08	5.52	4.97	6.11	5.00	7.01	6.95
EOM	7.13	7.02	6.60	6.42	6.67	5.95	6.39	4.61	5.37	5.84	6.91	7.31
MAX	7.73	7.38	7.00	6.58	6.72	6.67	6.40	6.38	6.45	6.12	7.01	7.32



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254000080181002. Local Number G 580A. USGS Observation Well near Miami, FL.

LOCATION.--Lat 25°40'00", long 80°18'10", in SE ¼ SE ¼ NE ¼ sec.11, T.55 S., R.40 E., Hydrologic Unit 03090202, at northwest corner of Ludlam Road and Killian Drive, 1.2 mi east of U.S. Highway 1, and 10.5 mi southwest of Miami.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 22 ft, cased to 8 ft, open hole 8 to 22 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of recorder shelf, 11.70 ft above National Geodetic Vertical Datum of 1929. From February 23, 1981 to May 10, 1991, the measuring point was top of casing, 11.90 ft above NGVD. From January 1969 to February 23, 1981, the measuring point was reported as 12.42 ft above NGVD, but during the period from October 1978 to February 1981 the measuring point was incorrectly considered to be 12.42 ft above NGVD. The correct measuring point elevation from March 18, 1968 to September 1975, was 12.10 ft above NGVD, from September 15, 1960 to March 16, 1968, was 12.42 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 9.2 ft above NGVD.

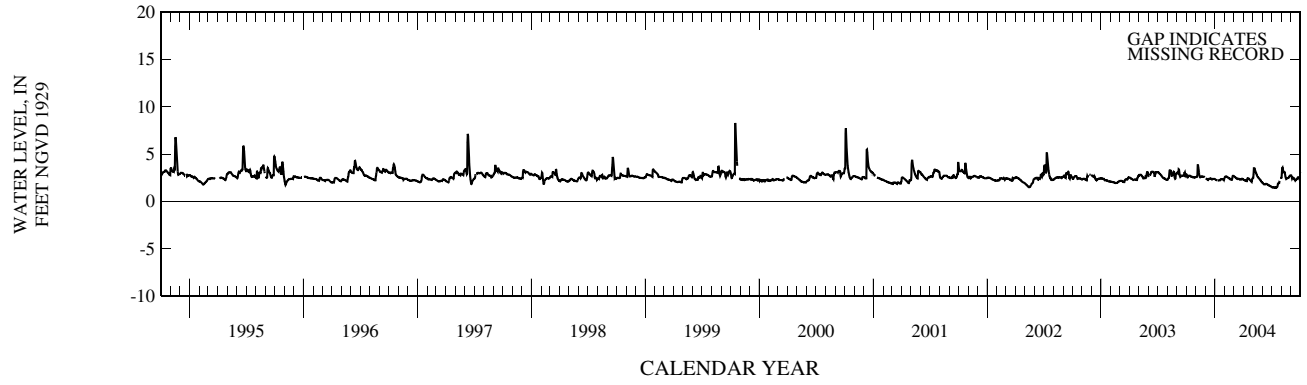
REMARKS.--G-580A (254000080181002) replaced the 100 ft deep, 6 in. diameter well G-580 (254000080181001) in September 1960. G-580 was destroyed on June 12, 1960. The data for G-580A has been published under the site ID of G-580 until the water year 1995 and under both the site ID and local name G-580 for the water years 1993 and 1994. The well has been damaged and reconstructed on March 1968, February 23, 1981 and May 10, 1991. Based on July 2002 soundings, the open hole interval is obstructed at 12 ft below land-surface datum. Measured well depth was 14.9 ft, top of base, on October 2, 2003.

PERIOD OF RECORD.--September 1960 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 9.34 ft, Sept. 23, 1960; lowest, 0.58 ft NGVD, May 10, 1971.

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	2.55	2.79	2.39	2.26	2.65	2.57	2.25	3.52	1.84	1.50	3.44	2.48
10	2.74	3.04	2.33	2.23	2.56	2.45	2.18	3.12	1.82	1.49	3.07	2.42
15	2.64	2.57	2.42	2.24	2.46	2.40	2.46	2.72	1.84	1.47	2.48	2.28
20	2.61	2.65	2.39	2.36	2.33	2.34	2.35	2.47	1.75	1.85	2.47	2.41
25	2.55	2.63	2.39	2.35	2.46	2.33	2.15	2.25	1.65	2.15	2.59	2.51
EOM	2.58	---	2.38	2.42	2.72	2.34	2.47	2.01	1.55	2.50	2.76	3.11
MAX	2.87	---	---	---	2.72	2.70	2.47	3.52	2.00	---	3.60	---



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254000080460001. Local Number G 620. USGS Observation Well in Everglades National Park, FL.

LOCATION.--Lat 25°40'00", long 80°46'00", in NW $^1/_4$ NE $^1/_4$ sec.30, T.55 S., R.36 E., Hydrologic Unit 03090202, at look-out tower in Everglades National Park, 6.5 mi south of U.S. Highway 41, and 18.9 mi southwest of the intersection of U.S. Highway 41 and State Road 997.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 16 ft, cased to 6 ft.

INSTRUMENTATION.-- Satellite data collection platform.

DATUM.--Measuring point: Top of shelf, 9.86 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 6.8 ft above NGVD.

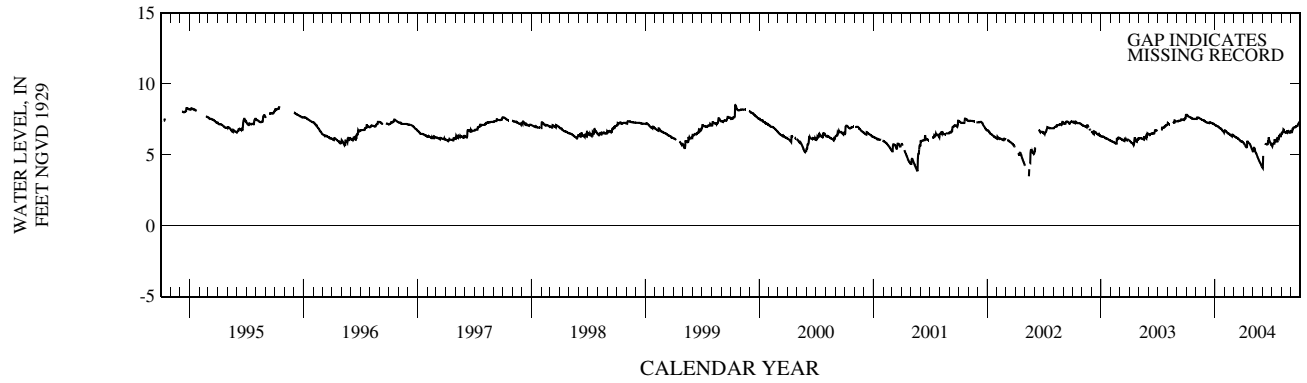
REMARKS.--Records of water levels prior to January 1957 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--January 1950 to September 1980, November 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.51 ft NGVD, Oct. 16, 1999; minimum water level recorded, 1.86 ft NGVD, May 30, 1965.

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	7.75	7.63	7.29	7.06	6.67	6.27	5.73	5.50	---	5.81	6.59	6.80
10	7.68	7.61	7.25	7.01	6.53	6.22	5.54	5.18	5.77	6.10	6.64	6.94
15	7.63	7.54	7.30	6.91	6.48	6.15	5.89	4.93	5.74	5.96	6.60	6.98
20	7.56	7.47	7.25	6.85	6.38	6.04	5.81	4.66	5.91	6.20	6.64	7.04
25	7.53	7.44	7.22	6.69	6.43	5.94	5.60	4.42	5.90	6.31	6.60	7.18
EOM	7.54	7.36	7.13	6.68	6.36	5.88	5.30	4.15	5.71	6.46	6.64	---
MAX	7.83	7.63	7.35	7.11	6.73	6.35	6.00	5.50	---	6.46	6.80	---



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254005080171601. Local Number G 3609. USGS Observation Well near Pinecrest, FL.

LOCATION.--Lat 25°40'05", long 80°17'16", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.12, T.55 S., R. 40 E., Hydrologic Unit 03090202, across the street from Pinecrest Gardens, 76 ft east of SW 59th Avenue and 6 ft south of SW 111th Street. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 85 ft, cased to 80 ft, screened 80 to 85 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 14.75 ft above National Geodetic Vertical Datum of 1929. Prior to March 2000, measuring point was estimated to be 15.00 ft above NGVD from a topographic map. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 14.8 ft above NGVD.

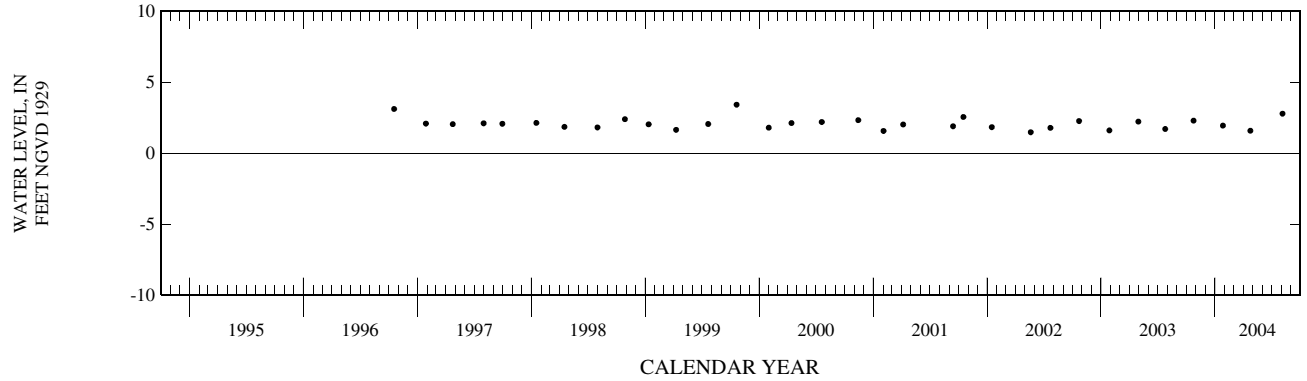
REMARKS.--Well is also used for salinity monitoring, including an annual induction log. Induction logs are used to assess movement of the fresh-water/salt-water interface in ground water. See EXPLANATION OF THE RECORDS SECTION, RECORDS OF BULK CONDUCTIVITY in the front of this book. A calibration error was found to have affected some of the historical bulk conductivity logs. Bulk conductivity logs prior to the 2002 water year had been (with the exception of 1998) calibrated to a standard of 1,301 mS/m. For these calibrations an internal setting limited the probe response to 1,000 mS/m. Data for the affected years was corrected by applying a 0.7686 multiplier. Salinity monitoring began in September 1995. Water-level measurements began October 1996. Water-level elevation data collected prior to March 14, 2000, have been computed using the measuring point established on March 14, 2000, and are in the files of the U.S. Geological Survey.

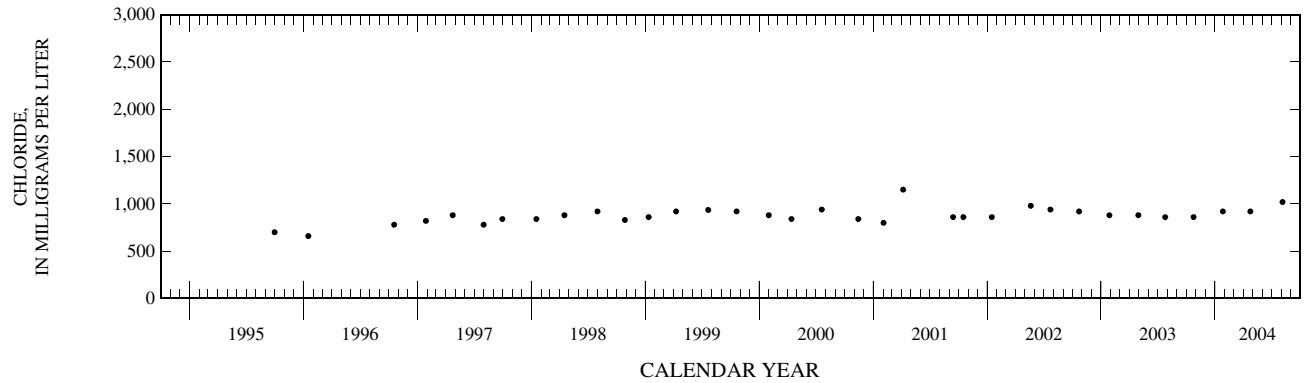
PERIOD OF RECORD.--September 1995 to current year. See REMARKS.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.42 ft NGVD, Oct. 20, 1999; lowest, 1.48 ft NGVD, May 20, 2002.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

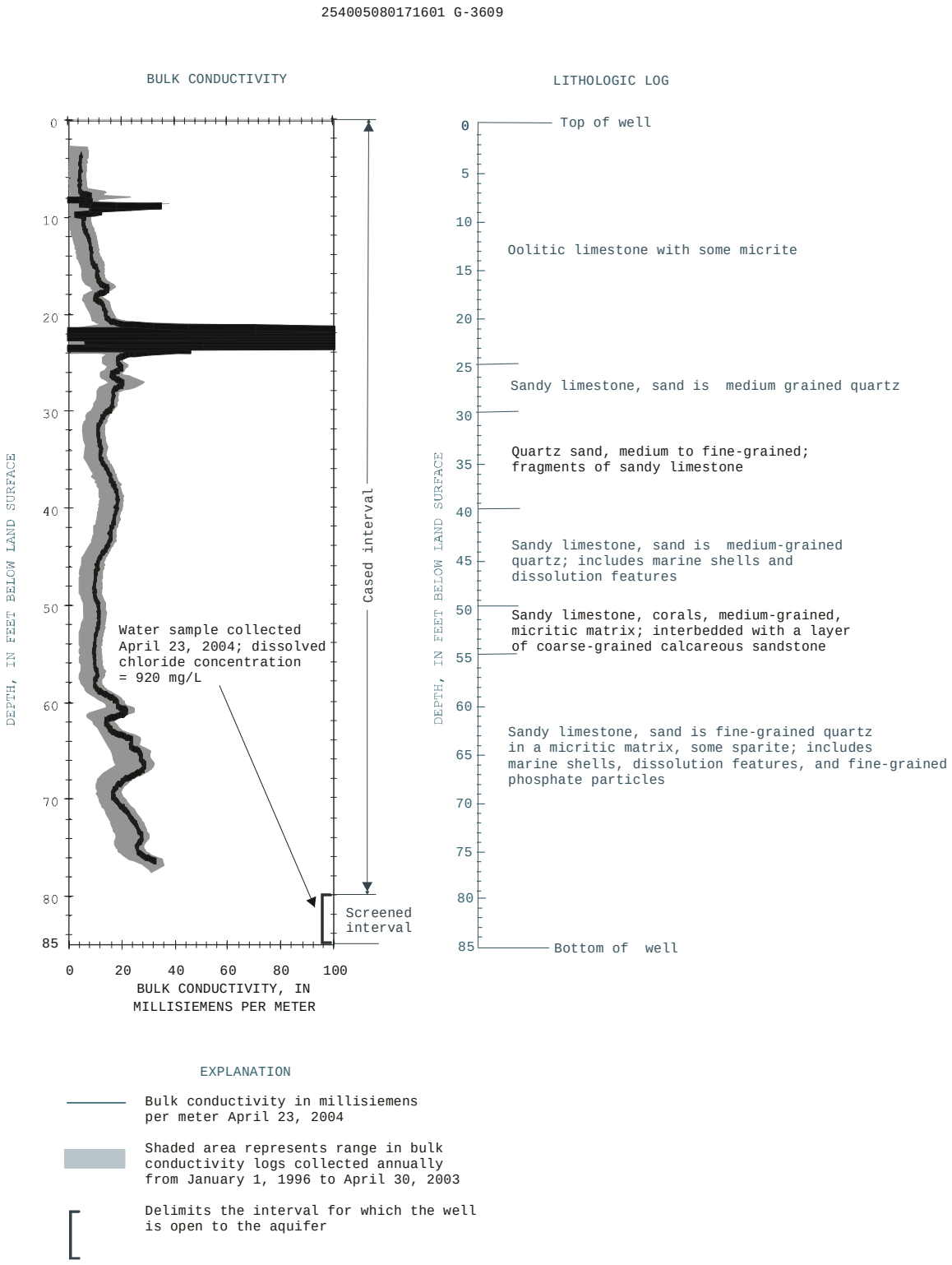
Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
24...	1315	2.30	3,050	860
JAN				
26...	1128	1.95	3,170	920
APR				
23...	1032	1.59	3,140	920
AUG				
04...	1214	2.79	3,780	1,020





MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254005080171601. Local Number G 3609. USGS Observation Well near Pinecrest, FL-Continued



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254022080263601. Local Number G 3561. USGS Observation Well near Miami, FL.

LOCATION.--Lat 25°40'23", long 80°26'36", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.4, T.55 S., R.39 E., Hydrologic Unit 03090202, in the northeast corner of the Metro-Dade Hammocks fire station, on Hammocks Boulevard, 0.2 mi north of SW 104th Street. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 5 in., depth 19 ft, cased to 14 ft, screened 14 to 19 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of shelf, 13.24 ft above National Geodetic Vertical Datum of 1929.

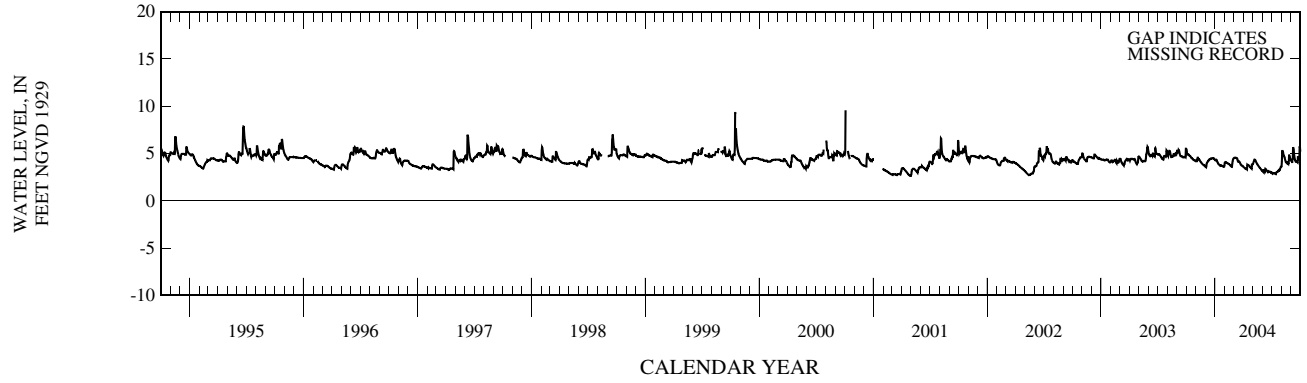
LAND-SURFACE DATUM.--Land surface is approximately 10.6 ft above NGVD. (Corrected).

PERIOD OF RECORD.--February 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 9.58 ft NGVD, Oct. 3, 2000; lowest, 2.64 ft NGVD, Apr. 30, and May 1, 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	4.93	4.47	3.92	4.35	4.07	4.56	3.47	4.31	2.99	2.93	5.07	4.37
10	4.81	4.40	4.24	4.00	3.96	4.54	3.40	4.25	3.38	2.91	4.65	4.96
15	4.65	4.16	4.39	3.79	3.88	4.14	3.80	3.90	3.18	2.92	4.09	4.18
20	4.46	3.94	4.48	3.74	3.70	4.08	3.67	3.63	3.06	3.08	4.04	4.09
25	4.31	3.78	4.51	3.67	3.93	3.75	3.47	3.41	3.08	3.28	4.80	4.40
EOM	4.20	3.66	4.35	3.76	4.48	3.63	3.87	3.22	2.96	3.61	4.29	5.20
MAX	5.44	4.56	4.51	4.35	4.48	4.56	3.93	4.37	3.38	3.61	5.28	5.76



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254038080280201. Local Number G 855. USGS Observation Well near Kendall, FL.

LOCATION.--Lat 25°40'38", long 80°28'02", in SE ¼ NE ¼ sec.6, T.55 S., R.39 E., Hydrologic Unit 03090202, 0.9 mi east of State Road 997 (Krome Avenue), 0.4 mi south of State Road 94 (Kendall Drive), and 9.2 mi west of Kendall.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

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

REVISED RECORDS.--See REMARKS.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 10.67 ft above National Geodetic Vertical Datum of 1929. From July 29, 1993 to July 1999, top of base was 9.45 ft above NGVD. From August 1986 to July 29, 1993, top of base was 9.52 ft above NGVD. From September 1978 to August 1986, top of base was 10.88 ft above NGVD. From June 24, 1970 to August 7, 1978, measuring point was top of shelf 10.39 ft above NGVD. Prior to June 24, 1970 measuring point was top of base 10.90 ft above NGVD. (Corrected). See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 7.9 ft above NGVD.

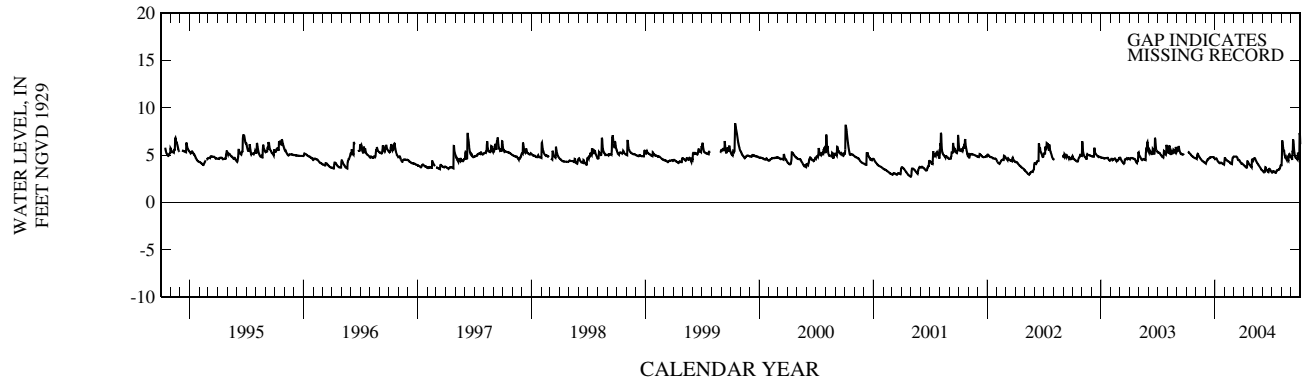
REMARKS.--The published figures of water levels as elevation, in feet NGVD, for October 1969 to November 1978 are in error. Previous corrections published prior to water year 2001 are in error. Corrected records are in the files of the U.S. Geological Survey. Well was reconstructed July 1970, September 1978, August 1986, July 29, 1993 and July 1999. The well was originally reported open to the aquifer from 10 to 20 ft. The open interval has since become obstructed or collapsed at a depth of 11.7 ft. See DATUM.

PERIOD OF RECORD.--January 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.37 ft NGVD, Oct. 15, 1999; lowest, 0.52 ft NGVD, present datum, May 14, 1971.

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	---	5.03	4.34	4.66	4.55	4.86	3.86	4.68	3.20	3.31	5.97	5.37
10	5.24	4.87	4.60	4.36	4.39	4.84	3.69	4.54	3.74	3.21	5.15	5.63
15	5.06	4.64	4.76	4.19	4.29	4.50	4.30	4.19	3.43	3.23	4.73	4.75
20	4.88	4.44	4.80	4.23	4.14	4.40	4.03	3.92	3.21	3.42	4.77	4.59
25	4.76	4.30	4.82	4.10	4.46	4.12	3.81	3.67	3.49	3.55	5.11	4.88
EOM	4.68	4.18	4.62	4.30	4.85	4.04	4.44	3.39	3.23	3.96	4.78	6.17
MAX	---	5.16	4.82	4.66	4.85	4.87	4.54	4.70	3.74	3.96	6.55	7.35



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254054080295401. Local Number G 1487. USGS Observation Well near Miami, FL.

LOCATION.--Lat 25°41'15", long 80°29'50", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.35, T.54 S., R.38 E., Hydrologic Unit 03090202, west of levee on west side of L-31N Canal, 5.1 mi south of U.S. Highway 41, 3.5 mi north of Howard Drive, and 1 mi west of State Road 997 (Krome Avenue).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 9.0 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of flange, 9.40 ft above National Geodetic Vertical Datum of 1929. Prior to November 18, 1999, measuring point was top of base, 8.38 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 6.8 ft above NGVD.

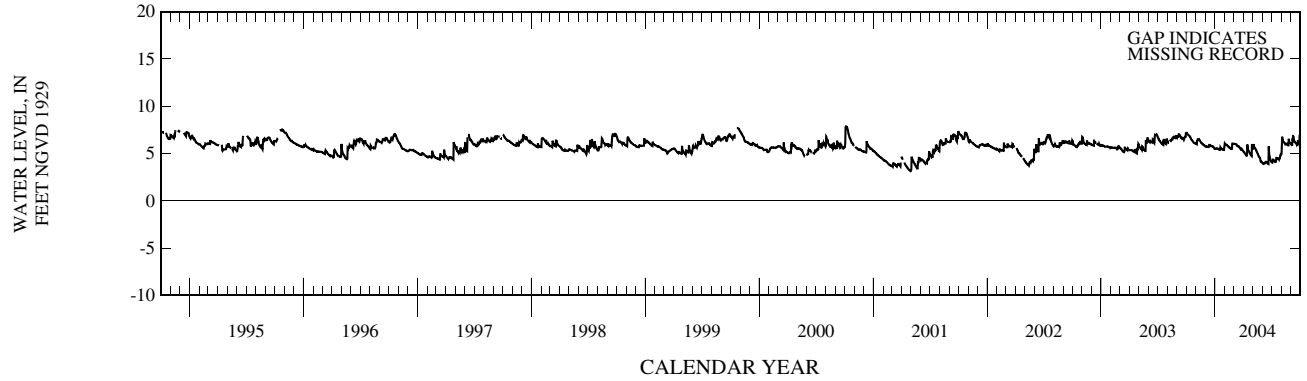
REMARKS.--The published figures of water levels as elevation, in feet NGVD, for August 13, 1999 to September 30, 1999 are in error. The corrected records are available in the files of the U.S. Geological Survey.

PERIOD OF RECORD.--April 1970 to May 1976, June 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.67 ft NGVD, Oct. 15, 1999 (estimated from high water mark in shelter); lowest daily maximum water level, 1.59 ft NGVD, May 7, 8, 1975.

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	7.06	6.36	5.73	5.53	5.97	6.01	5.04	5.68	3.97	4.36	6.45	6.44
10	6.86	6.52	5.75	5.51	5.80	5.97	4.78	5.48	4.06	4.15	6.13	6.43
15	6.62	6.28	5.87	5.41	5.64	5.77	5.47	5.11	4.07	4.55	6.11	6.13
20	6.36	6.06	5.82	5.54	5.50	5.64	5.14	4.71	3.89	4.43	5.98	6.02
25	6.14	5.92	5.73	5.42	6.05	5.40	4.83	4.26	4.54	4.48	6.35	6.11
EOM	6.06	5.80	5.50	5.77	6.03	5.26	5.76	4.05	4.11	4.91	6.02	6.92
MAX	7.18	6.52	6.00	5.77	6.07	6.03	6.00	6.01	5.76	4.91	6.78	6.98



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254107080165201. Local Number G 896. USGS Observation Well near Miami, FL.

LOCATION.--Lat 25°41'07", long 80°16'52", in NW ¼ SE ¼ NW ¼ sec.6, T.55 S., R.41 E., Hydrologic Unit 03090202, 3 ft south of rock wall, 0.25 mi west of SW 52nd Avenue (School House Road), 0.5 mi south of Kendall Drive.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 74 ft, cased to 60 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 11.25 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 6.3 ft above NGVD. (Corrected).

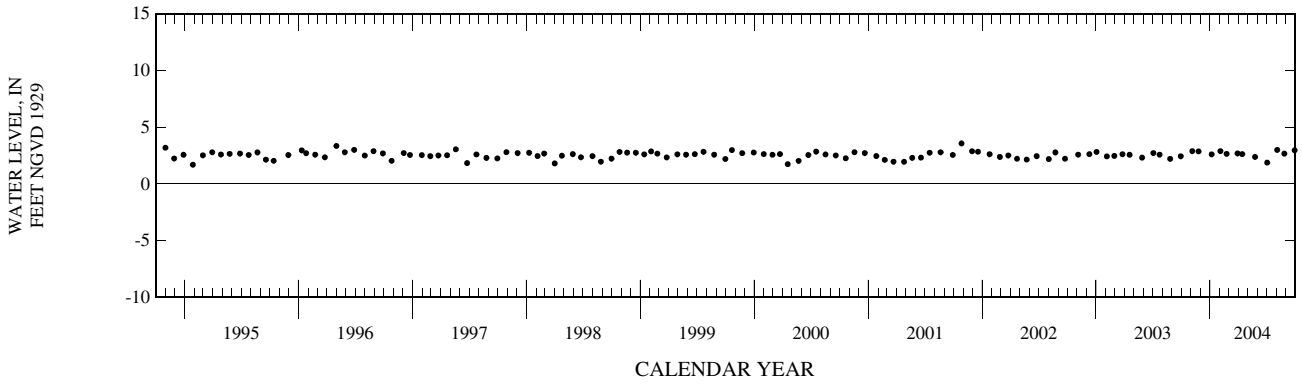
REMARKS.--Well also used for salinity monitoring.

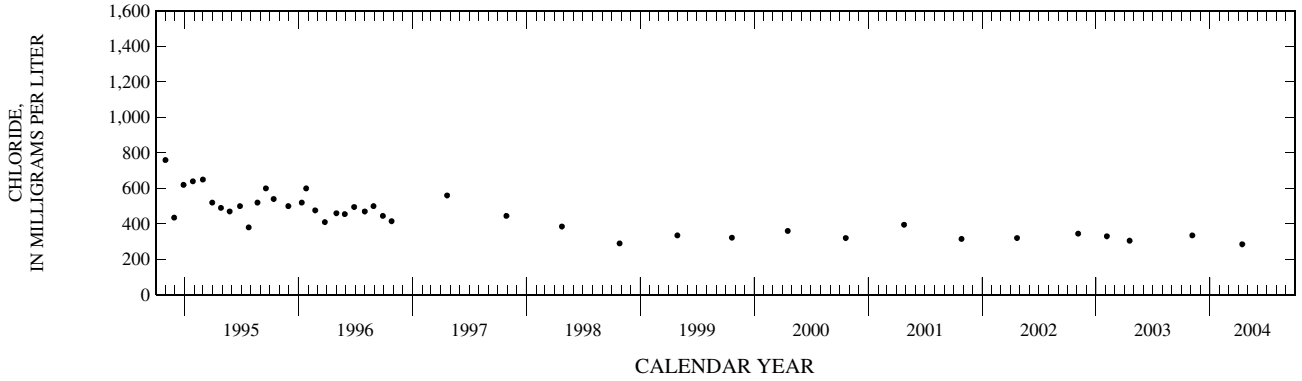
PERIOD OF RECORD.--May 1978 to May 1990 (semiannual), August 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.71 ft NGVD, Sept. 30, 1993; lowest, 1.52 ft NGVD, Apr. 18, 1991.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
NOV				
05...	1358	2.89	1,380	335
25...	1030	2.87	--	--
JAN				
06...	1106	2.61	--	--
FEB				
03...	1123	2.89	--	--
23...	1055	2.65	--	--
MAR				
29...	1235	2.69	--	--
APR				
13...	1249	2.63	1,230	285
MAY				
24...	1002	2.38	--	--
JUL				
02...	1125	1.88	--	--
AUG				
03...	0935	3.00	--	--
26...	1039	2.67	--	--
SEP				
28...	1045	2.97	--	--





MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254108080170601 Local Number G 3608. USGS Observation Well near Kendall, FL.

LOCATION.--Lat 25°41'08", long 80°17'06", in NW ¼ SW ¼ NW ¼ sec.6, T.55 S., R.41 E., Hydrologic Unit 03090202, 16 ft east of SW 57th Avenue and 700 ft north of SW 94th Street, across the street from 9320 SW 57th Avenue, west of Snapper Creek.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 100 ft, cased to 95 ft, screened 95 to 100 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 10.95 ft above National Geodetic Vertical Datum of 1929. Prior to March 2000, measuring point was estimated to be 11.00 ft above NGVD from a topographic map. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 11.0 ft above NGVD.

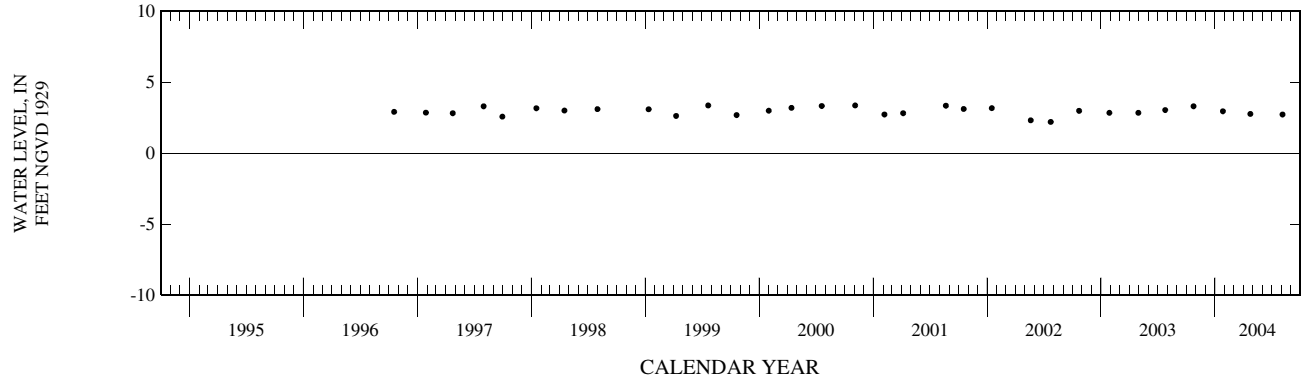
REMARKS.--Well is also used for quarterly salinity monitoring, including an annual induction log. Induction logs are used to assess movement of the fresh-water/salt-water interface in ground water. See EXPLANATION OF THE RECORDS SECTION, RECORDS OF BULK CONDUCTIVITY in the front of this book. A calibration error was found to have affected some of the historical bulk conductivity logs. Bulk conductivity logs prior to the 2002 water year had been (with the exception of 1998) calibrated to a standard of 1,301 mS/m. For these calibrations an internal setting limited the probe response to 1,000 mS/m. Data for the affected years was corrected by applying a 0.7686 multiplier. Salinity measurements began in August 1995. Water-level measurements began in October 1996. Water-level elevation data collected prior to March 14, 2000, have been computed using the measuring point established on March 14, 2000, and are in the files of the U.S. Geological Survey.

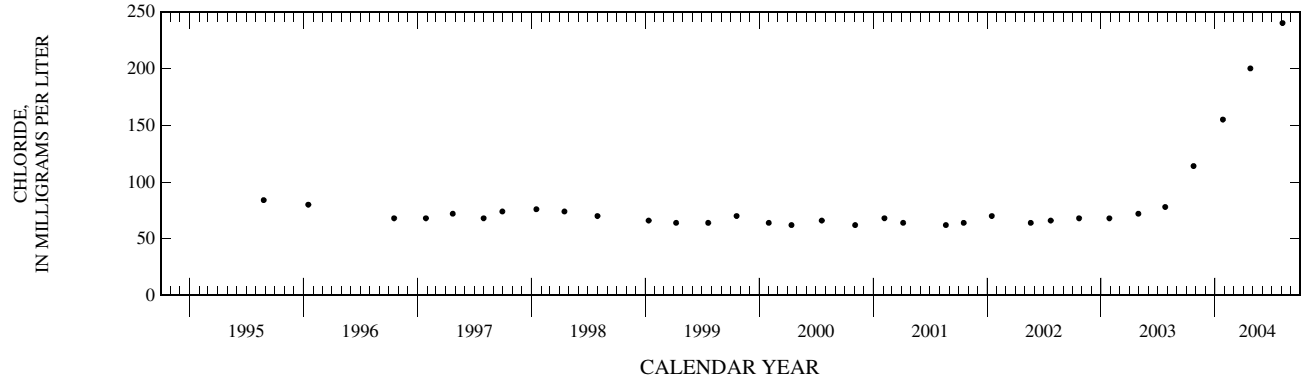
PERIOD OF RECORD.--August 1995 to current year. See REMARKS.

EXTREMES FOR PERIODS OF RECORD.--Highest water level measured, 3.37 ft NGVD, Nov. 3, 2000; lowest, 2.21 ft NGVD, July 23, 2002.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

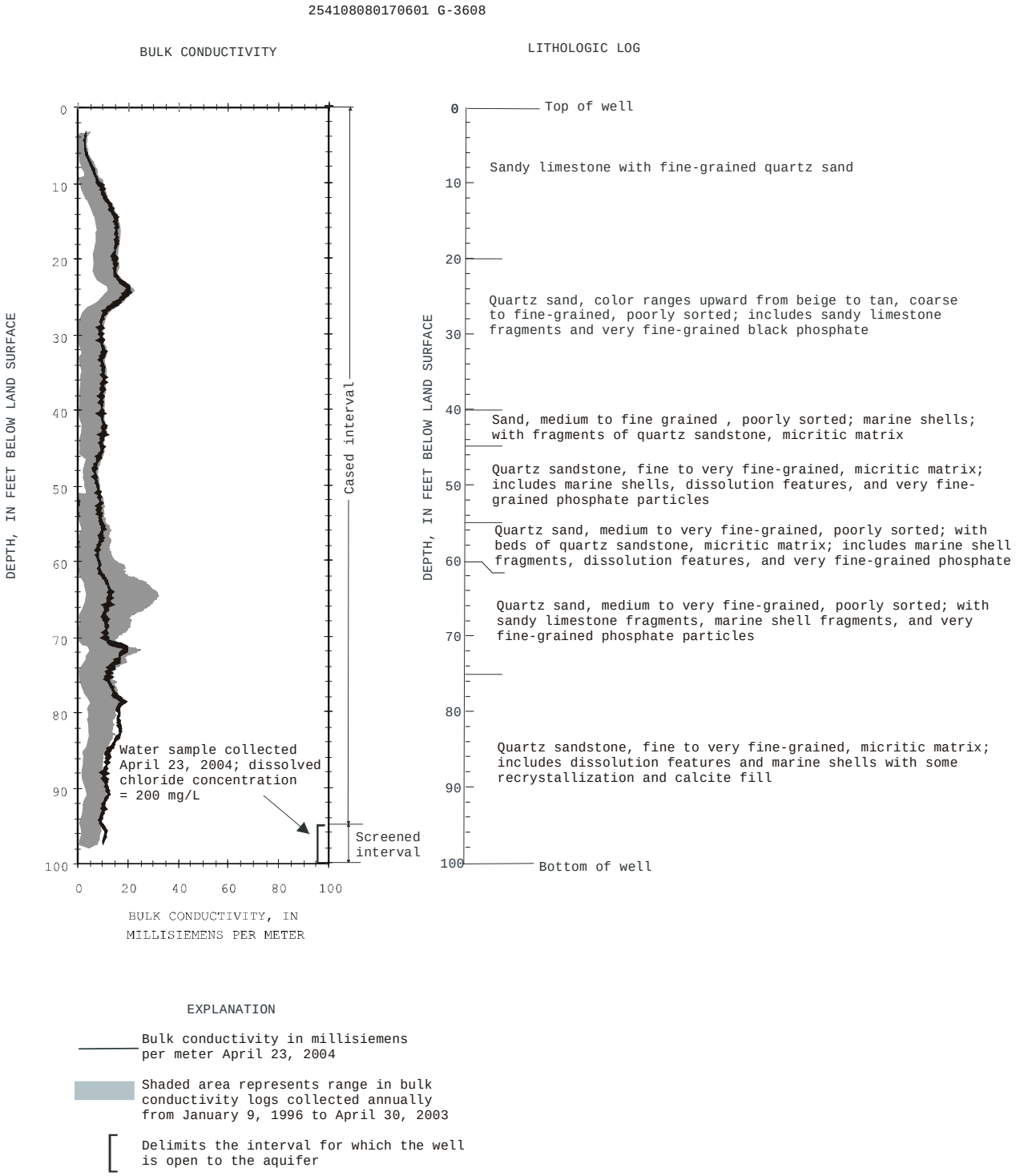
Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
24...	1210	3.31	706	114
JAN				
26...	1220	2.96	870	155
APR				
23...	0910	2.77	935	200
AUG				
04...	1154	2.73	1,130	240





MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254108080170601 Local Number G 3608. USGS Observation Well near Kendall, FL.-Continued



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254108080231301. Local Number G 3560. USGS Observation Well near Miami, FL.

LOCATION.--Lat 25°41'08", long 80°28'13", in NE ¼ SE ¼ SW ¼ sec.31, T.55 S., R.39 E., Hydrologic Unit 03090202, on the north side of SW 88th Street (Kendall Drive) about 0.75 mi west of SW 162nd Avenue.

AQUIFER.--Biscayne limestone aquifer of Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 5 in., depth 19.5 ft, cased to 14.5 ft, screened 14.5 to 19.5 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of shelf, 10.16 ft above National Geodetic Vertical Datum of 1929. From October 16, 1996 to August 20, 1998, top of shelf was 10.58 ft above NGVD. The measuring point elevation, 10.57 ft above NGVD, which had been published for the period October 16, 1996 to August 20, 1998 was incorrect. From September 25, 1995 to September 30, 1996, top of shelf was 10.74 ft above NGVD. From September 25, 1995 to September 30, 1995, measuring point was considered to be 11.60 ft above NGVD. The figures of water level as elevation, in feet NGVD, from September 25, 1995 to September 30, 1995 are in error. From April 1994 to September 25, 1995, top of shelf was 10.04 ft above NGVD. (Corrected). See REMARKS

LAND-SURFACE DATUM.--Land surface is approximately 7.2 ft above NGVD.

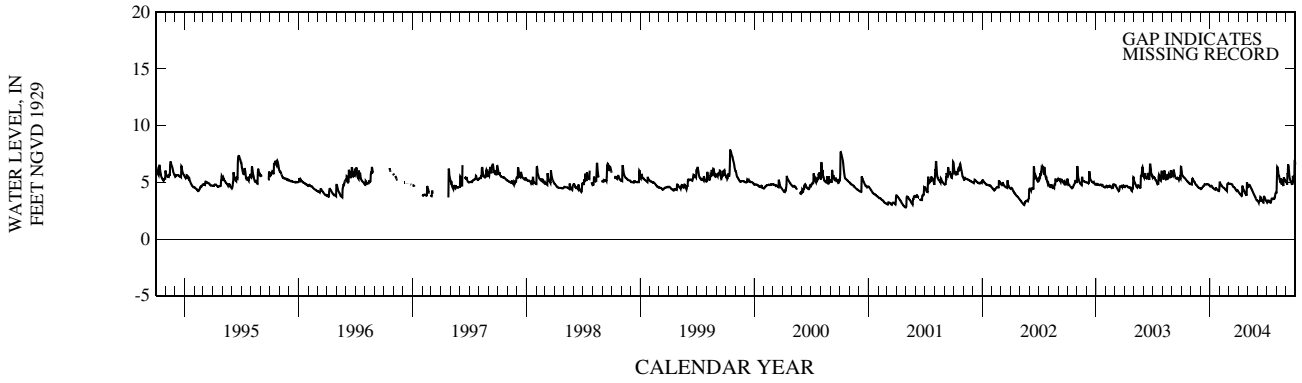
REMARKS.--The well was reconstructed September 25, 1995, October 16, 1996 and August 27, 1998. The figures of water level as elevation, in feet NGVD, from September 25, 1995 to September 30, 1995 are in error. A -0.87 ft correction has been applied to correct the short period of water-level data from September 25 to September 30, 1995. Corrected records are in the files of the U.S. Geological Survey. (Corrected). See DATUM.

PERIOD OF RECORD.--April 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.82 ft NGVD, Oct. 15, 16, 1999; lowest, 2.79 ft NGVD, Apr. 29 to May 1, 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	5.57	5.24	4.48	4.69	4.77	4.87	4.01	4.78	3.21	3.39	6.14	5.72
10	5.40	5.08	4.66	4.51	4.59	4.84	3.81	4.60	3.70	3.31	5.35	5.95
15	5.25	4.84	4.83	4.39	4.49	4.61	4.50	4.28	3.40	3.46	5.35	5.08
20	5.07	4.70	4.83	4.49	4.33	4.49	4.22	3.97	3.21	3.51	5.07	4.84
25	4.93	4.54	4.83	4.28	4.80	4.27	3.93	3.70	3.60	3.65	5.36	5.08
EOM	4.85	4.46	4.66	4.59	4.88	4.20	4.68	3.40	3.32	4.10	5.04	6.56
MAX	6.07	5.32	4.83	4.69	5.05	4.88	5.01	4.78	3.73	4.10	6.35	6.91



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254111080272501. Local Number G 3555. USGS Observation Well near Miami, FL.

LOCATION.--Lat 25°41'11", long 80°27'25", in NW ¼ SE ¼ SW ¼ sec.32, T.54 S., R.39 E., Hydrologic Unit 03090202, at northwest corner of a lake near the northwest corner of SW 162nd Avenue and SW 88th Street (Kendall Drive).

AQUIFER.--Biscayne limestone aquifer of Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 5 in., depth 19 ft, cased to 14 ft, screened 14 to 19 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of shelf, 10.87 ft above National Geodetic Vertical Datum of 1929.

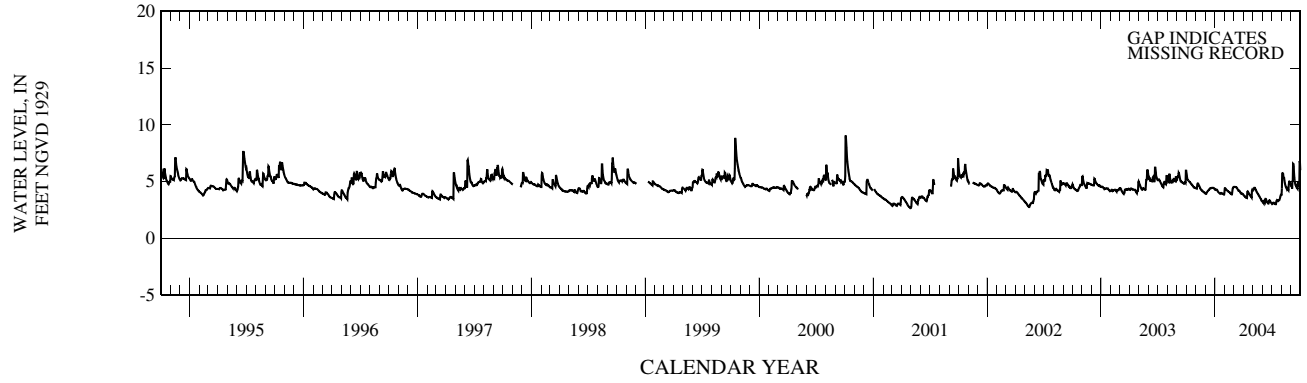
LAND-SURFACE DATUM.--Land surface is approximately 8.2 ft above NGVD.

PERIOD OF RECORD.--March 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.99 ft NGVD, Oct. 3, 4, 2000; lowest, 2.66 ft NGVD, Apr. 30, 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	5.18	4.76	4.01	4.30	4.31	4.53	3.70	4.45	3.07	3.13	5.73	5.02
10	5.02	4.67	4.22	4.13	4.17	4.48	3.57	4.32	3.48	3.06	5.09	5.74
15	4.85	4.40	4.40	3.98	4.08	4.24	4.12	4.03	3.24	3.21	4.54	4.68
20	4.68	4.22	4.44	4.01	3.94	4.14	3.89	3.79	3.07	3.30	4.46	4.41
25	4.50	4.08	4.45	3.92	4.12	3.94	3.68	3.52	3.31	3.38	4.99	4.74
EOM	4.43	3.98	4.33	4.04	4.52	3.86	4.25	3.27	3.09	3.85	4.71	6.00
MAX	5.72	4.83	4.45	4.30	4.52	4.54	4.28	4.46	3.48	3.85	5.73	6.81



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254112080294201. Local Number G 3557. USGS Observation Well near Miami, FL.

LOCATION.--Lat 25°41'14", long 80°29'46", in NW $^1/_4$ sec.32, T.54 S., R.38 E., Hydrologic Unit 03090202, 5.2 mi south of Tamiami Trail (U.S. Highway 41) and 100 ft east of L-31N Canal.

AQUIFER.--Biscayne limestone aquifer of Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 5 in., depth 19.5 ft, cased to 14.5 ft, screened 14.5 to 19.5 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of casing, 9.30 ft above National Geodetic Vertical Datum of 1929. Prior to May 24, 2004, measuring point was top of shelf, 9.37 ft above NGVD.

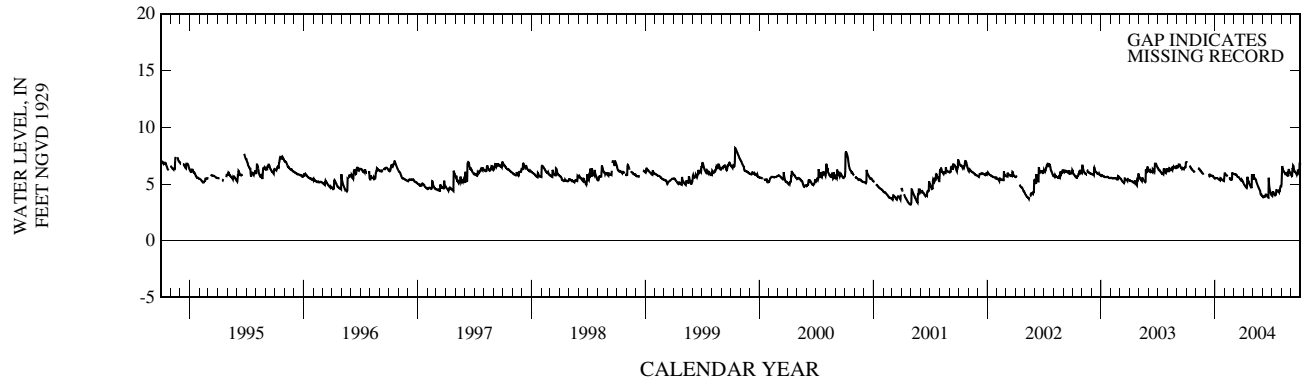
LAND-SURFACE DATUM.--Land surface is approximately 6.6 ft above NGVD.

PERIOD OF RECORD.--April 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.17 ft NGVD, Oct. 15, 1999; lowest, 3.18 ft NGVD, Apr. 30, 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	---	---	---	5.51	5.83	5.85	4.88	5.55	3.88	4.29	6.33	6.31
10	---	6.36	---	5.47	5.66	5.79	4.67	5.40	3.99	4.05	6.03	6.27
15	6.40	6.19	5.80	5.37	5.51	5.62	5.36	4.99	3.98	4.45	6.00	6.01
20	6.25	5.98	5.74	5.47	5.38	5.48	5.03	4.64	3.80	4.35	5.84	5.86
25	6.10	5.83	5.67	5.33	5.95	5.29	4.72	4.17	4.43	4.41	6.21	6.00
EOM	---	---	5.48	5.65	5.89	5.15	5.60	3.95	4.01	4.80	5.87	6.70
MAX	---	---	---	5.65	---	5.89	5.85	5.85	5.54	4.80	6.57	6.85



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254130080234501. Local Number G 551. USGS Observation Well near South Miami, FL.

LOCATION.--Lat 25°41'30", long 80°23'45", in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.36, T.54 S., R.39 E., Hydrologic Unit 03090202, on the east side of SW 125th Avenue, 0.6 mi south of Sunset Drive and 6.5 mi west of South Miami.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in. depth 80 ft, cased to 71 ft, slotted 29 to 71 ft, open hole 71 to 80 ft. (Corrected).

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of recorder shelf, 10.12 ft above National Geodetic Vertical Datum of 1929. Prior to May 11, 1992, top of shelf was 10.26 ft above NGVD. From December 1947 to April 1961, measuring point was top of casing, 8.62 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 8.7 ft above NGVD. (Corrected).

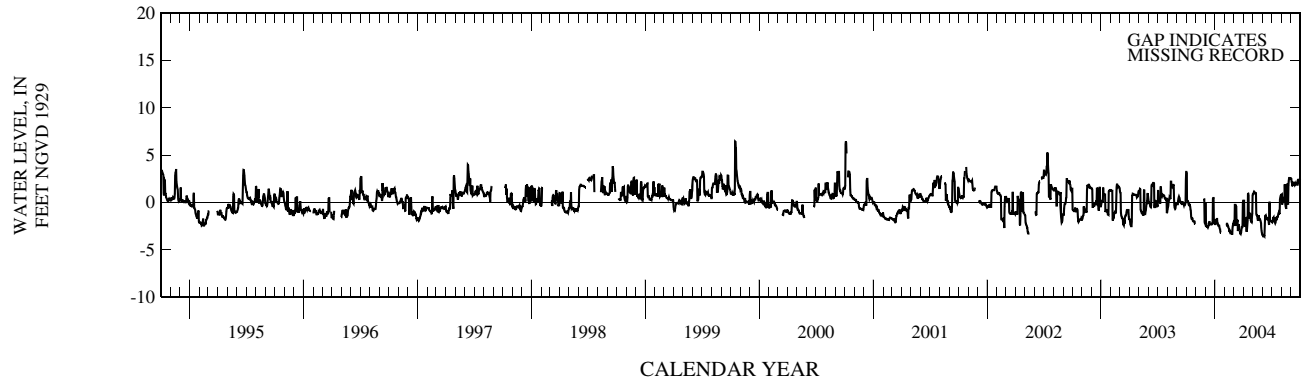
REMARKS.--Water levels affected by pumping. Station rebuilt May 1992.

PERIOD OF RECORD.--December 1947 to April 1961 (daily), May 1976 to May 1980 (semiannual), March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.77 ft NGVD, Oct. 5, 1948; lowest, 3.58 ft below NGVD, June 3, 4, 2004.

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	0.16	---	-2.51	-1.79	---	-0.25	-2.54	1.16	-3.48	-1.61	0.20	1.79
10	-0.28	---	-2.56	-2.28	-2.46	-2.44	-2.85	0.99	-1.38	-2.06	0.25	2.10
15	-0.87	---	-2.30	-2.64	-2.90	-2.77	0.90	-1.39	-1.85	-1.53	-0.49	2.01
20	-1.70	---	-2.30	---	-3.24	-2.96	-1.18	-1.35	-1.73	-1.41	-0.03	1.96
25	-1.97	0.34	0.40	---	-3.30	-2.92	-1.90	-1.89	-1.95	-1.19	2.59	2.35
EOM	---	-2.19	-2.02	---	-2.14	0.20	0.76	-3.35	-2.00	0.82	2.51	2.39
MAX	---	---	0.49	---	---	0.20	0.93	1.16	-0.01	0.82	2.60	2.50



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254138080284401. Local Number G 3552. USGS Observation Well near Miami, FL.

LOCATION.--Lat 25°41'38", long 80°28'44", in NW ¼ SW ¼ NW ¼ sec.31, T.54 S., R.39 E., Hydrologic Unit 03090202, 1,900 ft north of SW 88th Street (Kendall Drive) on west side of SW 177th Avenue (Krome Avenue).

AQUIFER.--Biscayne limestone aquifer of Pleistocene Age, Geologic Unit 112 BSCNN

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 5 in., depth 19.4 ft, cased to 14.4 ft, screened 14.4 to 19.4 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of shelf, 10.01 ft above National Geodetic Vertical Datum of 1929.

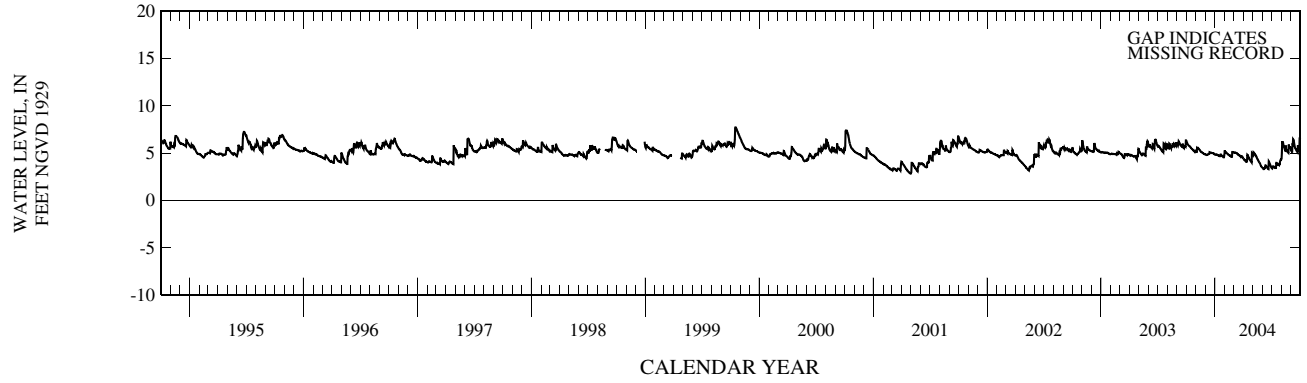
LAND-SURFACE DATUM.--Land surface is approximately 7.4 ft above NGVD.

PERIOD OF RECORD.--April 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.73 ft NGVD, Oct. 17, 1999; lowest, 2.85 ft NGVD, Apr. 30, 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	5.97	5.52	4.82	4.85	5.07	5.06	4.29	5.02	3.32	3.62	6.21	5.91
10	5.76	5.44	4.90	4.80	4.91	5.02	4.09	4.77	3.71	3.49	5.58	6.14
15	5.60	5.22	5.09	4.69	4.79	4.86	4.74	4.44	3.55	3.98	5.81	5.47
20	5.42	5.10	5.04	4.86	4.68	4.76	4.40	4.12	3.32	3.79	5.27	5.17
25	5.23	4.96	5.01	4.64	5.14	4.60	4.14	3.81	3.84	3.88	5.66	5.35
EOM	5.20	4.89	4.86	4.90	5.08	4.47	4.88	3.50	3.45	4.32	5.35	6.50
MAX	6.29	5.58	5.10	4.90	5.30	5.08	5.05	5.10	4.16	4.34	6.25	6.58



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254152080274501. Local Number G 3554. USGS Observation Well near Miami, FL.

LOCATION.--Lat 25°41'52", long 80°27'45", in NW $^1/_4$ NW $^1/_4$ NW $^1/_4$ sec.32, T.54 S., R.39 E., Hydrologic Unit 03090202, at southeast corner of SW 72nd Street (Sunset Drive) and SW 167th Avenue.

AQUIFER.--Biscayne limestone aquifer of Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 5 in., depth 20 ft, cased to 15 ft, screened 15 to 20 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of shelf, 10.60 ft above National Geodetic Vertical Datum of 1929. Prior to April 21, 1994, measuring point was 10.03 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 7.4 ft above NGVD.

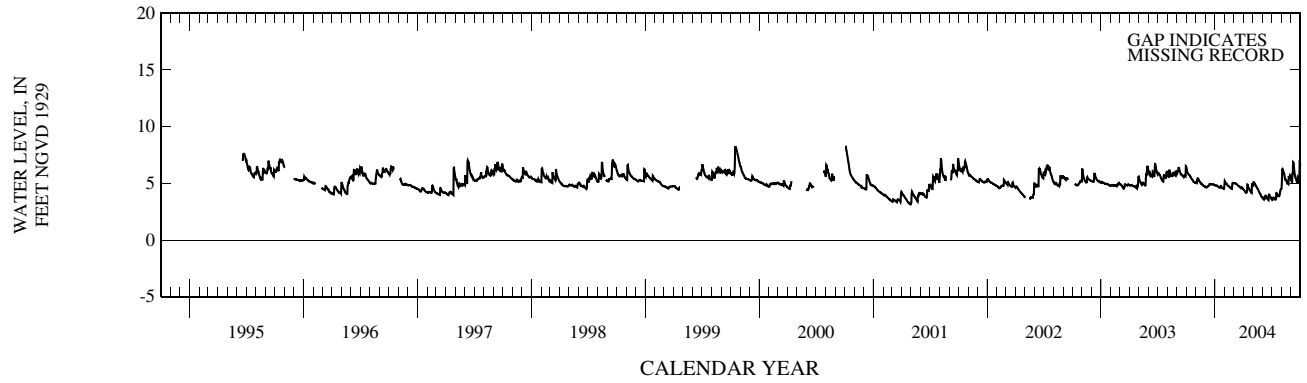
REMARKS.--Station destroyed August 21, 1994, rebuilt June 19, 1995.

PERIOD OF RECORD.--February 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.25 ft NGVD, Oct. 3, 2000; lowest, 3.14 ft NGVD, Apr. 29, 30, 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	5.94	5.37	4.64	4.81	4.99	4.99	4.33	5.07	3.57	3.74	6.22	5.83
10	5.73	5.28	4.77	4.73	4.82	4.94	4.17	4.83	3.91	3.62	5.70	6.34
15	5.50	5.04	4.94	4.62	4.70	4.78	4.79	4.56	3.73	4.13	5.37	5.45
20	5.29	4.91	4.92	4.77	4.57	4.69	4.47	4.31	3.52	3.90	5.14	5.10
25	5.13	4.77	4.92	4.56	4.93	4.57	4.22	4.04	3.89	3.93	5.56	5.29
EOM	5.08	4.72	4.82	4.84	5.02	4.49	4.91	3.75	3.61	4.48	5.36	6.54
MAX	6.32	5.43	4.94	4.84	5.18	5.02	5.01	5.10	4.00	4.48	6.22	6.88



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254152080282101. Local Number G 3553. USGS Observation Well near Miami, FL.

LOCATION.--Lat 25°41'52", long 80°28'21", in NW $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.31, T.54 S., R.39 E., Hydrologic Unit 03090202, on SW 72nd Street (Sunset Drive) west of SW 172nd Avenue.

AQUIFER.--Biscayne limestone aquifer of Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 5 in., depth 19.9 ft, cased to 14.9 ft, screened 14.9 to 19.9 ft.

INSTRUMENTATION.--Satellite data collection platform and tipping bucket rain gage.

DATUM.--Measuring point: Top of shelf, 8.83 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 6.2 ft above NGVD.

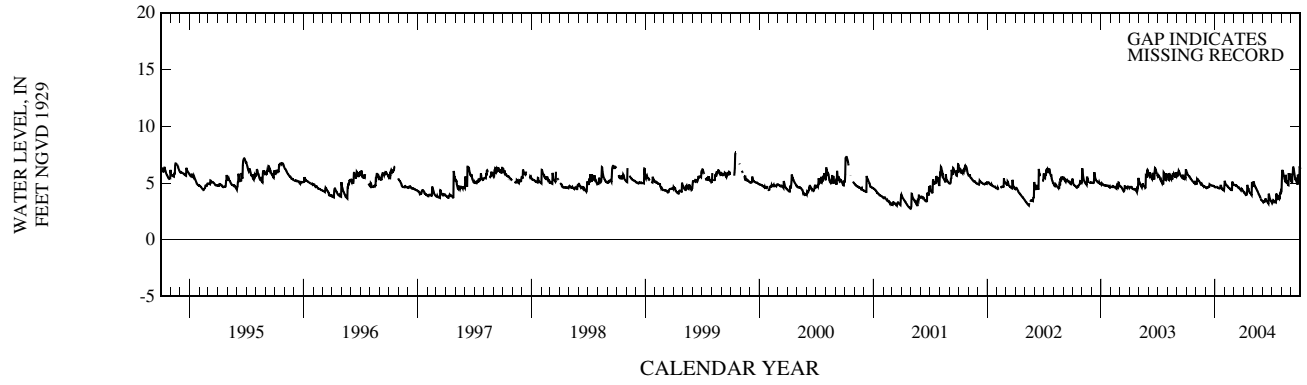
REMARKS.--Rainfall data is not published but is available in the files of the U.S. Geological Survey.

PERIOD OF RECORD.--February 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.64 ft NGVD, Oct. 17, 18, 1999; lowest, 2.72 ft NGVD, Apr. 30, 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	5.76	5.30	4.55	4.65	4.86	4.80	4.12	4.90	3.32	3.48	6.08	5.82
10	5.57	5.18	4.64	4.59	4.69	4.77	3.95	4.61	3.59	3.35	5.41	6.07
15	5.37	4.97	4.85	4.52	4.54	4.59	4.55	4.32	3.41	4.07	5.71	5.37
20	5.18	4.84	4.78	4.76	4.41	4.50	4.21	4.01	3.17	3.63	5.06	4.99
25	5.02	4.71	4.76	4.40	5.05	4.40	4.00	3.72	3.61	3.74	5.50	5.12
EOM	4.99	4.65	4.63	4.76	4.86	4.27	4.73	3.41	3.32	4.22	5.17	6.22
MAX	6.04	5.35	4.88	4.76	5.19	4.86	5.08	5.13	4.05	4.27	6.15	6.46



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254157080214002. Local Number G 3074. USGS Observation Well near South Miami, FL.

LOCATION.--Lat 25°41'57", long 80°21'40", in NE ¼ NW ¼ sec.32, T.54 S., R.40 E., Hydrologic Unit 03090202, on north side of Snapper Creek Canal, 0.25 mi southeast of the intersection of SW 107th Avenue and Sunset Drive, and 4.6 mi west of South Miami.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 40 ft, cased to 40 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 8.22 ft above National Geodetic Vertical Datum of 1929. Prior to October 1994, measuring point was top of flange, 8.17 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 5.0 ft above NGVD. (Corrected).

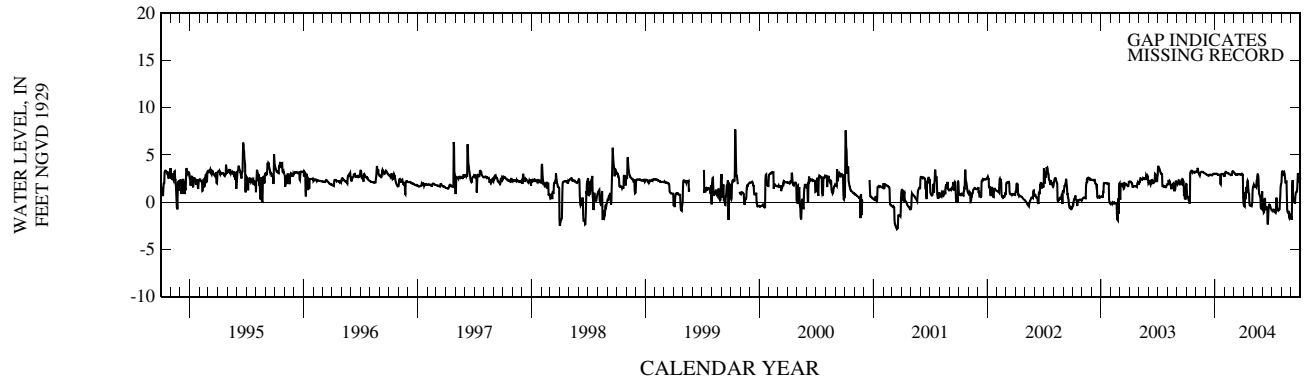
REMARKS.--Cased interval is obstructed at a depth of 36 ft. The well remains in good communication with the aquifer. (Corrected).

PERIOD OF RECORD.--September 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.68 ft NGVD, Oct. 15, 1999; lowest, 3.78 ft below NGVD, May 8, 1987.

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	0.48	3.37	2.91	3.02	3.20	3.02	-0.47	1.79	-1.09	-0.79	2.94	2.17
10	0.03	2.99	2.86	2.89	3.06	2.90	1.04	1.68	-0.65	-0.99	3.08	0.41
15	3.21	3.12	2.91	2.91	2.99	2.94	2.19	2.67	-0.53	0.23	2.11	0.89
20	3.13	3.21	2.87	2.88	2.86	2.96	-0.10	1.30	-0.99	-0.85	-0.97	1.39
25	3.24	3.13	2.94	2.94	3.22	2.96	-0.36	0.56	-0.33	-0.75	-1.57	2.19
EOM	3.24	3.04	3.00	2.68	3.21	0.53	1.21	1.13	-0.85	1.91	-1.66	2.39
MAX	3.33	3.63	3.02	3.02	3.27	3.16	2.27	2.94	0.34	1.91	3.26	3.09



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254158080294501. Local Number G 3551. USGS Observation Well near Miami, FL.

LOCATION.--Lat 25°41'58", long 80°29'45", in SW ¼ NW ¼ NW ¼ sec.36, T.54 S., R.38 E., Hydrologic Unit 03090202, 4.2 mi south of Tamiami Trail (U.S. Highway 41) and 100 ft east of L-31N Canal.

AQUIFER.--Biscayne limestone aquifer of Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 5 in., depth 18.3 ft, cased to 13.3 ft, screened 13.3 to 18.3 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of base, 9.18 ft above National Geodetic Vertical Datum of 1929.

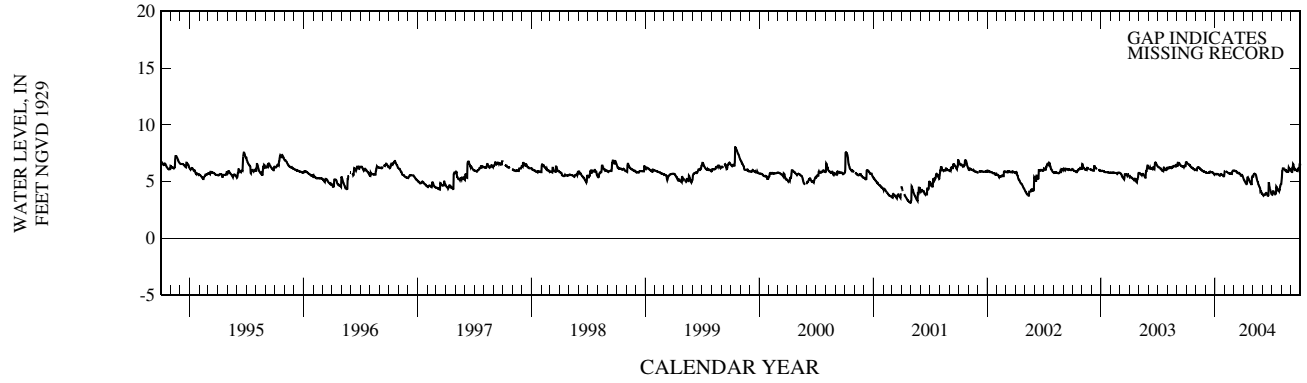
LAND-SURFACE DATUM.--Land surface is approximately 6.6 ft above NGVD.

PERIOD OF RECORD.--April 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.03 ft NGVD, Oct. 15, 16, 1999; lowest, 3.15 ft NGVD, Apr. 30, 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	6.60	6.19	5.77	5.66	5.89	5.93	5.04	5.67	3.81	4.15	6.16	6.22
10	6.46	6.23	5.77	5.66	5.81	5.87	4.78	5.64	3.93	3.95	6.11	6.20
15	6.29	6.09	5.86	5.55	5.74	5.75	5.38	5.10	3.89	4.57	6.02	6.04
20	6.20	5.99	5.83	5.65	5.68	5.70	5.11	4.69	3.78	4.26	5.87	5.95
25	6.10	5.87	5.76	5.56	5.89	5.53	4.83	4.11	4.34	4.31	6.19	6.05
EOM	6.05	5.83	5.65	5.73	5.98	5.37	5.45	3.94	3.91	4.79	5.96	6.43
MAX	6.72	6.26	5.86	5.73	---	5.98	5.45	5.70	4.95	4.79	6.25	6.59



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254201080173001. Local Number G 901. USGS Observation Well near Miami, FL.

LOCATION.--Lat 25°42'01", long 80°17'30", in SE ¼ NW ¼ NE ¼ sec.36, T.54 S., R.40 E., Hydrologic Unit 03090202, at southwest corner of intersection of SW 76th Street and SW 54th Avenue.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 96 ft, cased to 94.8 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 7.91 ft above National Geodetic Vertical Datum of 29.

LAND-SURFACE DATUM.--Land surface is approximately 7.9 ft above NGVD.

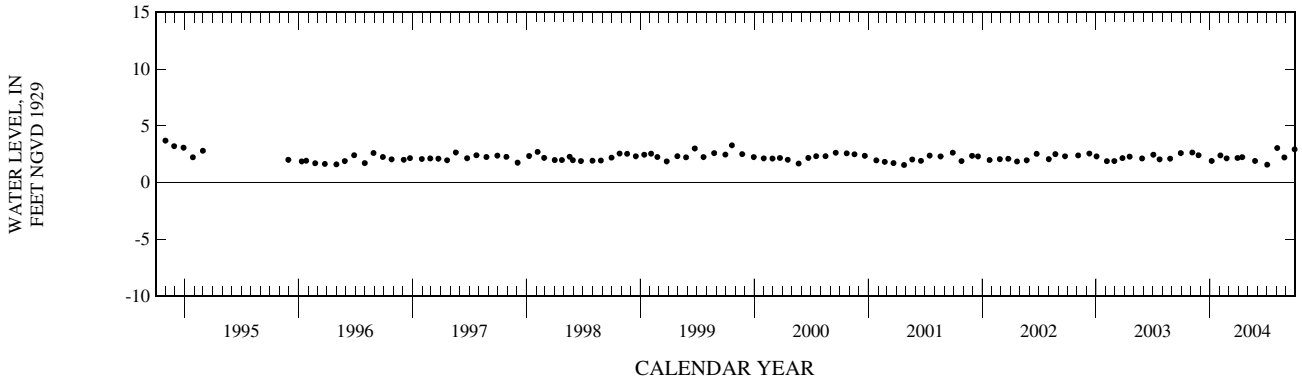
REMARKS.--Well also used for salinity monitoring.

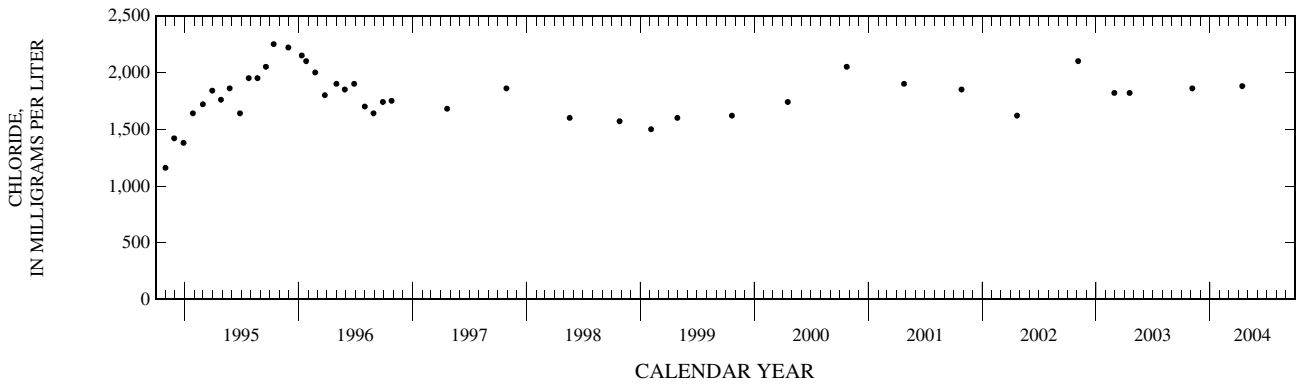
PERIOD OF RECORD.--October 1975 to October 1981, May 1992 to November 1992 (intermittent), February 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.51 ft NGVD, Oct. 28, 1993; lowest, 1.16 ft NGVD, May 2, 1977.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
NOV				
05...	1320	2.65	5,930	1,860
25...	1001	2.41	--	--
JAN				
06...	1046	1.91	--	--
FEB				
03...	1105	2.40	--	--
23...	1040	2.14	--	--
MAR				
29...	1201	2.17	--	--
APR				
13...	1205	2.24	5,870	1,880
MAY				
24...	0949	1.91	--	--
JUL				
02...	1114	1.58	--	--
AUG				
03...	0917	3.05	--	--
26...	1025	2.22	--	--
SEP				
28...	1028	2.93	--	--





MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254206080294701. Local Number G 3575. USGS Observation Well near Miami, FL.

LOCATION.--Lat 25°42'06", long 80°29'47", in NW 1/4 NE 1/4 NE 1/4 sec.35, T.54 S., R.38 E., Hydrologic Unit 03090202, 4.07 mi south of U.S. Highway 41 (Tamiami Trail), next to levee on west side of L-31N Canal.

AQUIFER.--Biscayne limestone aquifer of Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 8.9 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of base, 9.09 ft above National Geodetic Vertical Datum of 1929. Prior to August 23, 2001, the measuring point was incorrectly considered to be 8.94 ft above NGVD. The figures of water level as elevation, in ft NGVD, from February 1995 to September 2000 are in error. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 6.1 ft above National Geodetic Vertical Datum of 1929

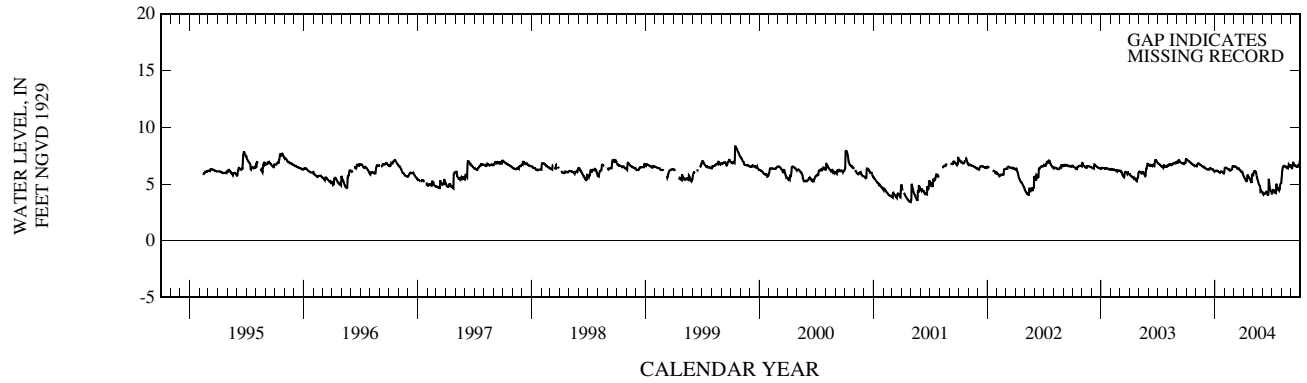
REMARKS.--On August 23, 2001, the measuring point elevation was found to be in error. The published figures of water level as elevation, in feet NGVD, from February 1995 to September 2000, are in error. Corrected data can be found in the files of the U.S. Geological Survey.

PERIOD OF RECORD.--February 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.31 ft NGVD, Oct. 15, 16, 1999; lowest, 3.40 ft NGVD, Apr. 30, 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	7.10	6.72	6.30	6.14	6.42	6.52	5.50	6.13	4.12	4.47	6.49	6.66
10	6.98	6.79	6.27	6.13	6.33	6.47	5.23	6.10	4.21	4.26	6.58	6.70
15	6.83	6.68	6.36	6.02	6.28	6.36	5.76	5.49	4.18	5.02	6.53	6.57
20	6.75	6.58	6.31	6.11	6.20	6.24	5.52	5.01	4.10	4.58	6.40	6.50
25	6.64	6.48	6.25	6.02	6.44	6.05	5.24	4.37	4.63	4.58	6.68	6.58
EOM	6.59	6.40	6.12	6.16	6.56	5.85	5.77	4.28	4.23	5.08	6.51	6.85
MAX	7.19	6.80	6.37	6.16	6.56	6.56	5.81	6.14	5.45	5.08	6.71	6.98



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254207080300201. Local Number G 3577. USGS Observation Well near Miami, FL.

LOCATION.--Lat 25°42'07", long 80°30'02", NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 35, T.54 S., R.38 E., Hydrologic Unit 03090202, 4.08 mi south of U.S. Highway 41 (Tamiami Trail) and 0.24 mi west of levee on west side of L-31N Canal.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 8.0 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of base, 8.99 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 6.0 ft above NGVD.

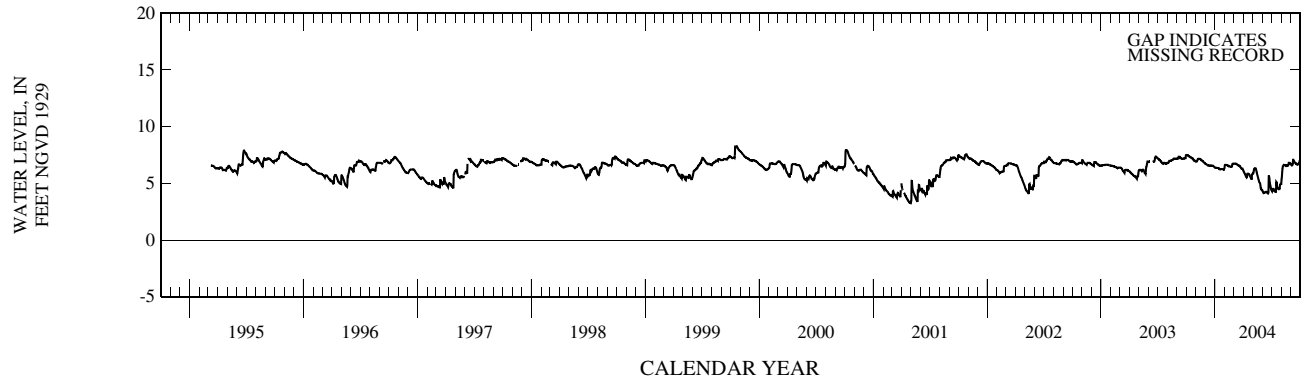
REMARKS.--The published figures of water level as elevation, in feet NGVD, for the 2000 water year are in error. Corrected data are available in the files of the U.S. Geological Survey.

PERIOD OF RECORD.--March 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.33 ft NGVD, Oct. 19, 1999; lowest, 3.25 ft NGVD, Apr. 30, 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	7.48	7.02	6.65	6.37	6.62	6.73	5.86	6.28	4.20	4.51	6.48	6.71
10	7.35	7.15	6.56	6.35	6.57	6.70	5.55	6.32	4.20	4.29	6.61	6.96
15	7.30	7.14	6.55	6.25	6.49	6.58	5.85	5.79	4.21	5.11	6.59	6.75
20	7.20	7.00	6.56	6.26	6.47	6.50	5.76	5.24	4.17	4.55	6.54	6.66
25	7.02	6.88	6.55	6.26	6.65	6.30	5.47	4.79	4.94	4.56	6.80	6.71
EOM	6.93	6.73	6.38	6.30	6.73	6.16	5.84	4.38	4.36	4.95	6.66	6.98
MAX	7.49	7.15	6.72	6.37	6.73	6.73	6.10	6.32	5.62	5.11	6.80	7.07



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254210080304801. Local Number G 3578. USGS Observation Well near Miami, FL.

LOCATION.--Lat 25°42'10", long 80°30'48", NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 34, T.54 S., R.38 E., Hydrologic Unit 03090202, 4.02 mi south of U.S. Highway 41 (Tamiami Trail) and 1.01 mi west of levee on west side of L-31N Canal.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 6.0 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of base, 8.94 ft above National Geodetic Vertical Datum of 1929.

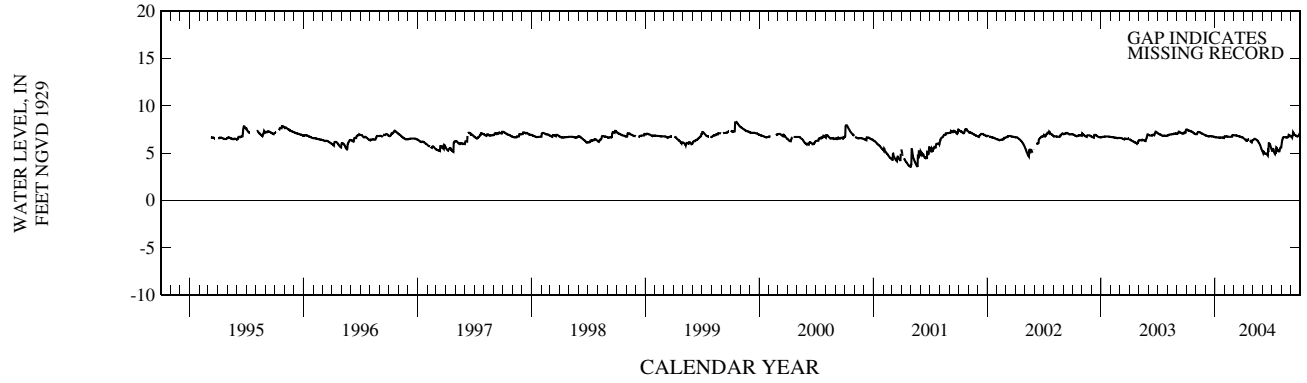
LAND-SURFACE DATUM.--Land surface is approximately 6.0 ft above NGVD.

PERIOD OF RECORD.--March 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.39 ft NGVD, Oct. 18, 1999: lowest, 3.55 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	7.44	7.13	6.85	6.68	6.79	6.90	6.49	6.50	5.17	5.45	6.61	6.85
10	7.38	7.25	6.79	6.67	6.76	6.87	6.31	6.49	4.93	4.97	6.71	7.04
15	7.33	7.18	6.82	6.66	6.75	6.81	6.41	6.35	4.89	5.62	6.69	6.88
20	7.25	7.09	6.80	6.67	6.75	6.78	---	6.11	5.14	5.27	6.66	6.79
25	7.10	7.00	6.78	6.65	6.90	6.69	6.25	5.79	5.95	5.27	6.93	6.86
EOM	7.02	6.91	6.71	6.68	6.91	6.64	6.37	5.29	5.42	5.62	6.78	7.15
MAX	7.51	7.25	6.90	6.70	6.91	6.91	---	6.53	6.05	5.62	6.95	7.21



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254213080281501. Local Number G 3556. USGS Observation Well near Miami, FL.

LOCATION.--Lat 25°42'13", long 80°28'15", in SE ¼ NE ¼ SW ¼ sec.30, T.54 S., R.39 E., Hydrologic Unit 03090202, east of SW 172nd Avenue and approximately 0.4 mi north of SW 72nd Street (Sunset Drive).

AQUIFER.--Biscayne limestone aquifer of Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 5 in., depth 19.1 ft, cased to 14.1 ft, screened 14.1 to 19.1 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of shelf, 7.86 ft above National Geodetic Vertical Datum of 1929.

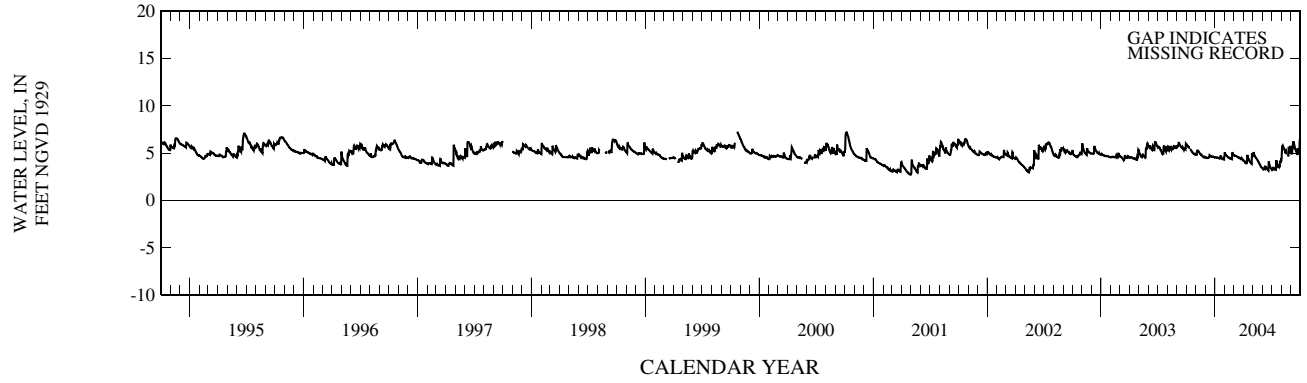
LAND-SURFACE DATUM.--Land surface is approximately 5.1 ft above NGVD.

PERIOD OF RECORD.--August 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.29 ft NGVD, Oct. 22, 1999; lowest, 2.74 ft NGVD, Apr. 29, 30, 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	5.75	5.28	4.49	4.56	4.79	4.75	4.14	4.85	3.29	3.48	5.80	5.66
10	5.57	5.15	4.55	4.53	4.61	4.68	3.95	4.55	3.58	3.32	5.39	6.02
15	5.36	4.90	4.77	4.47	4.52	4.56	4.53	4.32	3.41	4.28	5.46	5.40
20	5.13	4.74	4.65	4.68	4.41	4.49	4.18	4.01	3.16	3.62	---	4.93
25	4.93	4.59	4.65	4.38	5.03	4.37	3.94	3.74	3.61	3.72	5.44	5.09
EOM	4.90	4.58	4.55	4.70	4.80	4.24	4.70	3.43	3.31	4.20	5.16	5.99
MAX	---	5.28	4.79	4.70	5.10	4.80	4.99	5.12	4.14	4.28	---	6.19



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254215080201503. Local Number G 1074B. USGS Observation Well in South Miami, FL.

LOCATION.--Lat 25°42'15", long 80°20'15", in SE ¼ SE ¼ sec.28, T.54 S., R.40 E., Hydrologic Unit 03090202, 0.15 mi west of Galloway Road and 0.20 mi north of Sunset Drive.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 39.0 ft, cased to 17.0 ft. (Corrected).

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of PVC casing, 13.47 ft above National Geodetic Vertical Datum of 1929. Prior to October 1997, measuring point was top of base, 13.48 ft above NGVD.

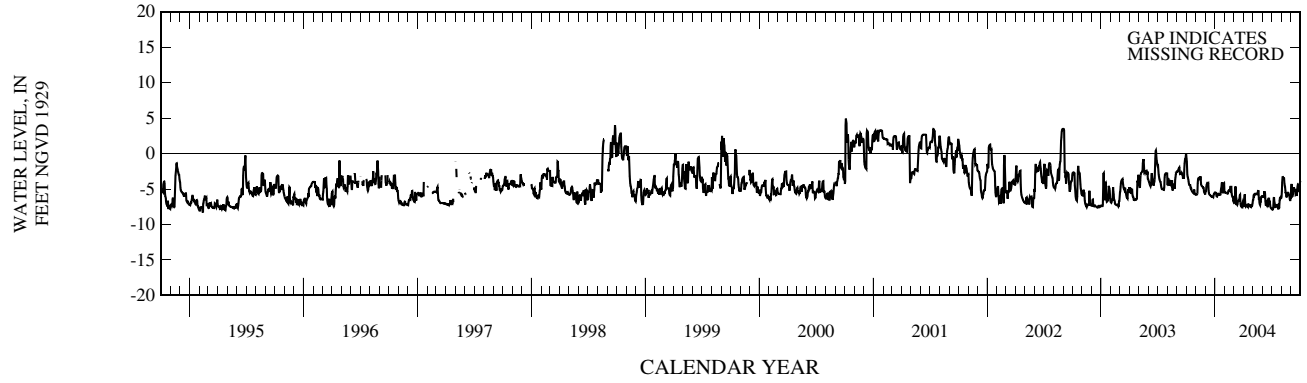
LAND-SURFACE DATUM.--Land surface is approximately 10.5 ft above NGVD. (Corrected).

PERIOD OF RECORD.--October 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 4.92 ft NGVD, Oct. 4, 2000; lowest, 9.61 ft below NGVD, Sept. 21, 1992.

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	-3.25	-5.66	-4.40	-5.95	-5.53	-6.99	-5.75	-5.75	-6.11	-7.65	-3.19	-6.02
10	-4.42	-3.43	-4.19	-5.67	-5.61	-6.98	-7.13	-5.68	-6.72	-6.98	-4.24	-4.96
15	-4.90	-3.19	-5.84	-5.81	-5.15	-6.66	-7.51	-5.70	-6.72	-7.52	-5.43	-5.82
20	-5.38	-4.61	-6.02	-4.98	-4.68	-5.87	-7.39	-6.38	-7.02	-7.24	-5.54	-4.93
25	-5.44	-4.81	-6.10	-5.41	-6.03	-7.47	-7.55	-6.82	-7.11	-6.96	-5.85	-4.49
EOM	-5.77	-5.76	-5.50	-5.32	-6.76	-6.97	-6.99	-6.06	-7.80	-6.27	-5.98	-3.86
MAX	-0.69	-3.19	-4.11	-4.02	-4.68	-4.64	-5.75	-5.19	-5.29	-6.15	-3.19	-3.86



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254217080171801. Local Number F 319. USGS Observation Well in South Miami, FL.

LOCATION.--Lat 25°42'17", long 80°17'18", in SE ¼ SE ¼ sec.25, T.54 S., R.40 E., Hydrologic Unit 03090202, in parking lot, on west side of SW 58th Avenue, north of Sunset Drive in South Miami, 0.1 mi south of U.S. Highway 1.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 17 ft, cased to 13 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 13.81 ft above National Geodetic Vertical Datum of 1929. Prior to October 1980, measuring point was top of casing, 13.81 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 12.2 ft above NGVD. (Corrected).

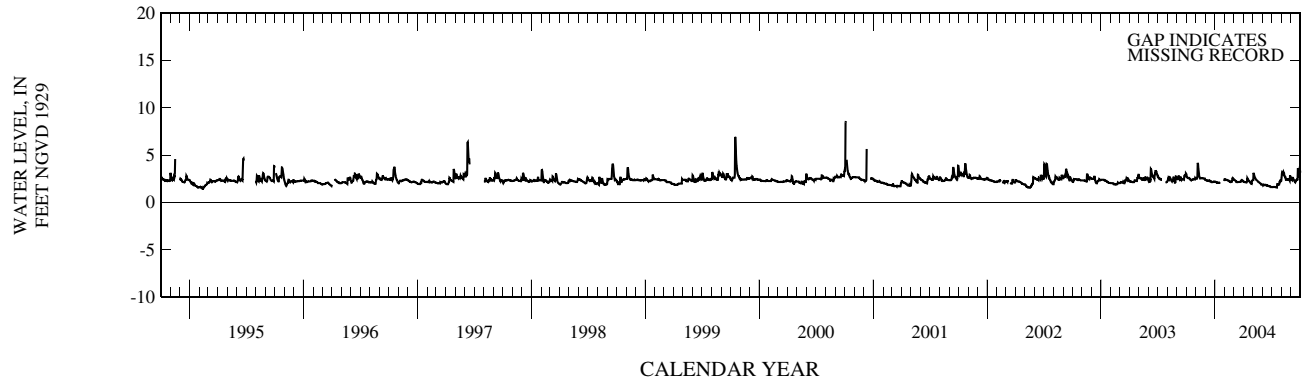
REMARKS.--In 1953, F-319 replaced a destroyed well of similar depth 250 ft south of current location. Both wells were published under the designation of F-319. Records of water levels prior to January 1957 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--August 1945 to current year. (Corrected).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 9.86 ft NGVD, Oct. 11, 1947; lowest, 0.47 ft NGVD, May 17, 1945.

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	2.59	2.75	2.34	2.17	2.42	2.33	2.16	2.92	1.88	1.64	3.19	2.61
10	2.59	3.03	2.32	2.09	2.34	2.18	2.13	2.50	1.83	1.65	2.83	2.36
15	2.38	2.57	2.31	2.10	2.25	2.17	2.43	2.31	1.81	1.62	2.42	2.25
20	2.41	2.57	2.21	---	2.16	2.19	2.26	2.16	1.77	1.93	2.46	2.44
25	2.50	2.54	2.17	---	2.54	2.30	2.01	2.01	1.69	2.14	2.40	2.87
EOM	2.54	2.40	2.22	2.45	2.48	2.24	2.37	1.90	1.65	2.34	2.52	3.15
MAX	2.90	4.19	2.40	---	2.60	2.42	2.58	3.14	1.90	2.38	3.24	3.62



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254218080241801. Local Number G 3565. USGS Observation Well near Miami, FL.

LOCATION.--Lat 25°42'18", long 80°24'18", in SW ¼ NW ¼ SE ¼ sec.26, T.54 S., R.39 E., Hydrologic Unit 03090202, 9 ft from edge of pavement in the northeast corner of the cul-de-sac at SW 68th Terrace and SW 131st Court.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 5 in., depth 19 ft, cased to 14 ft, open hole 14 to 19 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 11.82 ft above National Geodetic Vertical Datum of 1929.

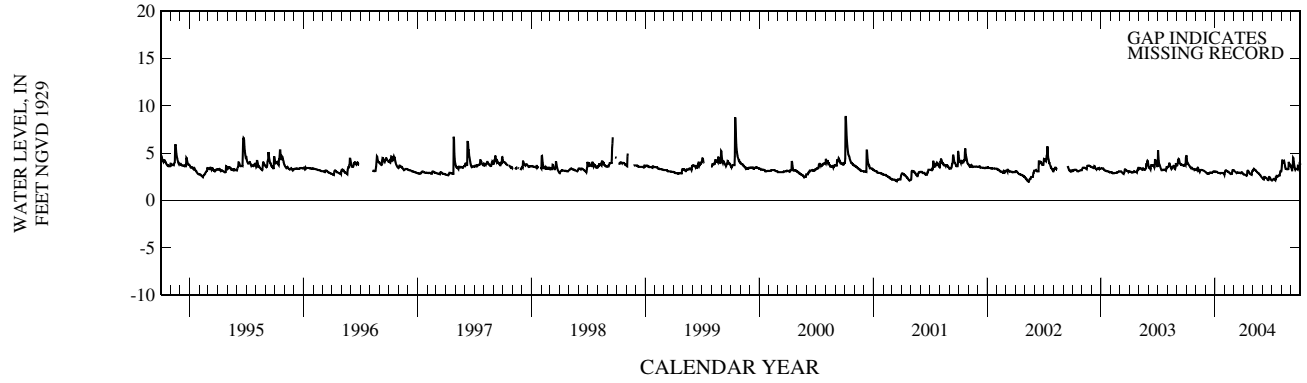
LAND-SURFACE DATUM.--Land surface is approximately 8.5 ft above NGVD. (Corrected).

PERIOD OF RECORD.--September 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.84 ft NGVD, Oct. 3, 2000; lowest, 1.98 ft NGVD, May 13, 14, 2002.

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	3.91	3.43	2.90	3.05	3.19	3.06	2.73	3.34	2.22	2.26	3.99	3.50
10	3.69	3.18	2.82	2.93	3.06	2.91	2.66	3.18	2.44	2.21	4.00	3.88
15	3.44	3.20	2.96	2.91	2.94	2.95	3.16	2.99	2.30	2.40	3.34	3.32
20	3.32	3.23	2.95	2.92	2.81	2.95	2.93	2.85	2.16	2.55	3.35	3.32
25	3.35	3.15	3.02	2.90	3.09	2.91	2.77	2.66	2.41	2.65	3.97	3.36
EOM	3.30	3.04	3.07	2.73	3.22	2.80	3.17	2.39	2.14	3.09	3.55	3.77
MAX	4.72	3.48	3.09	3.05	3.22	3.20	3.17	3.36	2.50	3.09	4.24	4.54



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254248080263801. Local Number G 3473. USGS Observation Well near South Miami, FL.

LOCATION.--Lat 25°42'48", long 80°26'38", in SW $^1/_4$ sec.21, T.54 S., R.39 E., Hydrologic Unit 03090202, on north side of Miller Drive at SW 154th Court and 0.3 mi west of SW 152nd Avenue.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 20.4 ft, cased to 20.4 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of flange, 10.69 ft above National Geodetic Vertical Datum of 1929. From October 29, 1994 to October 1996, measuring point was top of base, 10.75 ft above NGVD. From October 29, 1991 to October 2, 1994, measuring point was top of casing, 11.80 ft above NGVD. Prior to October 1993, top of casing was incorrectly considered to be 10.76 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 8.6 ft above NGVD. (Corrected).

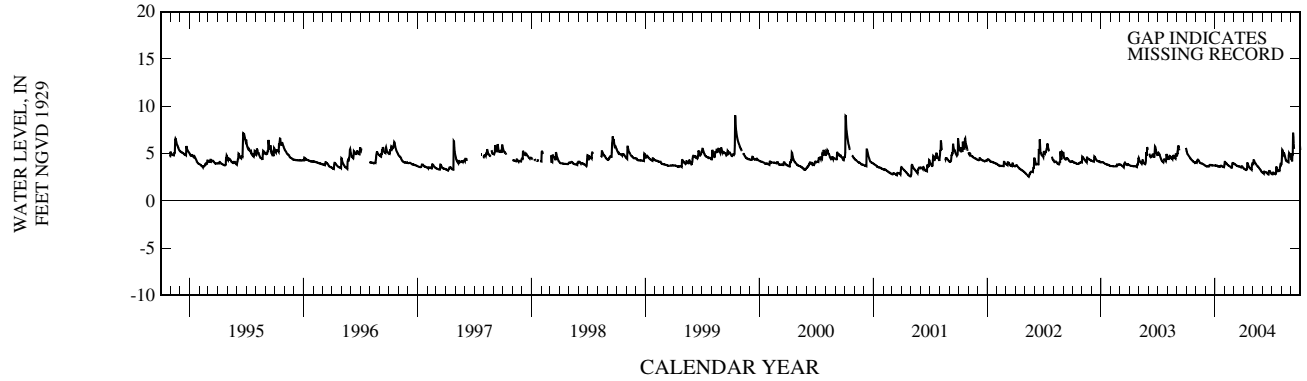
REMARKS.--The published figures of water levels as elevation, in feet NGVD, prior to October 1993, are in error. Corrected figures are available in the files of the U.S. Geological Survey. Station reconstructed October 29, 1994.

PERIOD OF RECORD.--October 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 9.05 ft NGVD, Oct. 15, 1999; lowest, 2.07 ft NGVD, June 2, 1992.

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	4.93	4.31	3.66	3.73	3.99	3.85	3.35	4.28	2.87	2.99	5.10	4.87
10	4.68	4.22	3.66	3.66	3.80	3.72	3.30	3.95	3.04	2.88	4.95	5.50
15	4.43	3.99	3.81	3.62	3.68	3.67	3.90	3.70	2.95	3.63	4.31	---
20	4.24	3.95	3.77	3.72	3.57	3.63	3.53	3.51	2.79	3.17	4.14	---
25	4.11	3.84	3.75	3.61	3.93	3.60	3.34	3.28	3.11	3.18	5.04	---
EOM	4.06	3.74	3.76	3.81	3.96	3.50	3.97	3.01	2.86	3.82	4.55	5.38
MAX	5.31	4.36	3.81	3.81	4.13	3.95	3.99	4.29	3.17	3.92	5.40	---



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254334080284401. Local Number G 3558. USGS Observation Well near Miami, FL.

LOCATION.--Lat 25°43'39", long 80°28'47", in SW ¼ SW ¼ SW ¼ sec.18, T.54 S., R.39 E., Hydrologic Unit 03090202, at the northeast corner of Florida Power and Light service road next to Bird Drive extension canal and SW 177th Avenue (Krome Avenue).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 5 in., depth 19 ft, cased to 14 ft, screened 14 to 19 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of shelf, 9.93 ft above National Geodetic Vertical Datum of 1929.

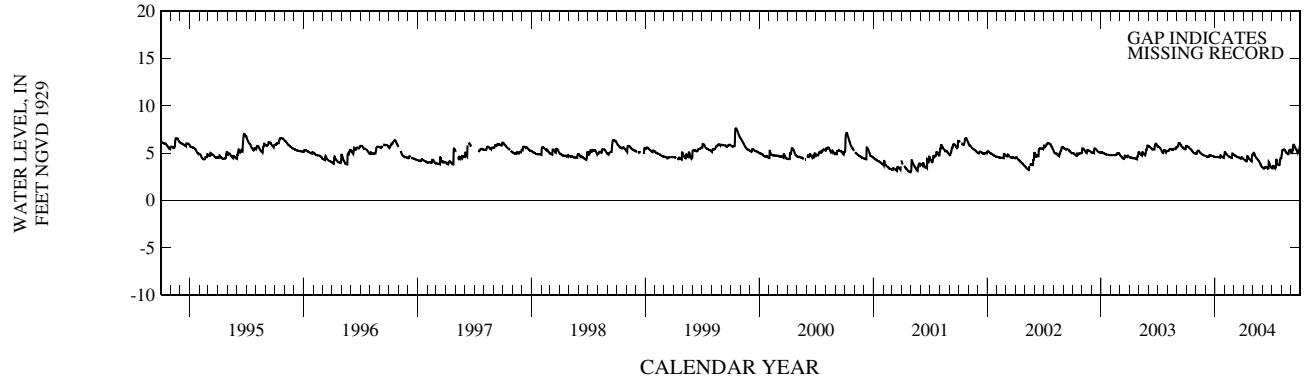
LAND-SURFACE DATUM.--Land surface is approximately 7.1 ft above NGVD.

PERIOD OF RECORD.--April 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.62 ft NGVD, Oct. 17-19, 1999; lowest, 2.98 ft NGVD, Apr. 29, 30, 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	5.74	5.21	4.67	4.60	4.96	4.76	4.28	5.04	3.38	3.66	5.33	5.37
10	5.57	5.25	4.64	4.60	4.77	4.64	4.16	4.63	3.56	3.48	5.41	5.90
15	5.43	5.01	4.83	4.57	4.64	4.56	4.64	4.39	3.49	4.39	5.08	5.49
20	5.23	4.90	4.73	4.74	4.54	4.52	4.38	4.17	3.30	3.81	4.94	5.17
25	5.01	4.80	4.71	4.57	4.97	4.49	4.21	3.89	3.73	3.74	5.28	5.21
EOM	4.99	4.72	4.60	4.84	4.88	4.42	4.86	3.55	3.45	4.40	5.26	5.70
MAX	5.77	5.28	4.83	4.84	5.12	4.85	4.86	5.05	4.08	4.50	5.41	5.90



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254335080170501. Local Number G 432. USGS Observation Well near Coral Gables, FL.

LOCATION.--Lat 25°43'35", long 80°17'05", in NW $^1/_4$ SW $^1/_4$ SW $^1/_4$ sec.19, T.54 S., R.41 E., Hydrologic Unit 03090202, at the northwest corner of intersection of Blue Road and Alhambra Circle, 28 ft west of Alhambra Circle and 6 ft north of Blue Road.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2.5 in., depth 99.5 ft, cased to 97.5 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 11.99 ft above National Geodetic Vertical Datum of 1929

LAND-SURFACE DATUM.--Land surface is approximately 12.0 ft above NGVD.

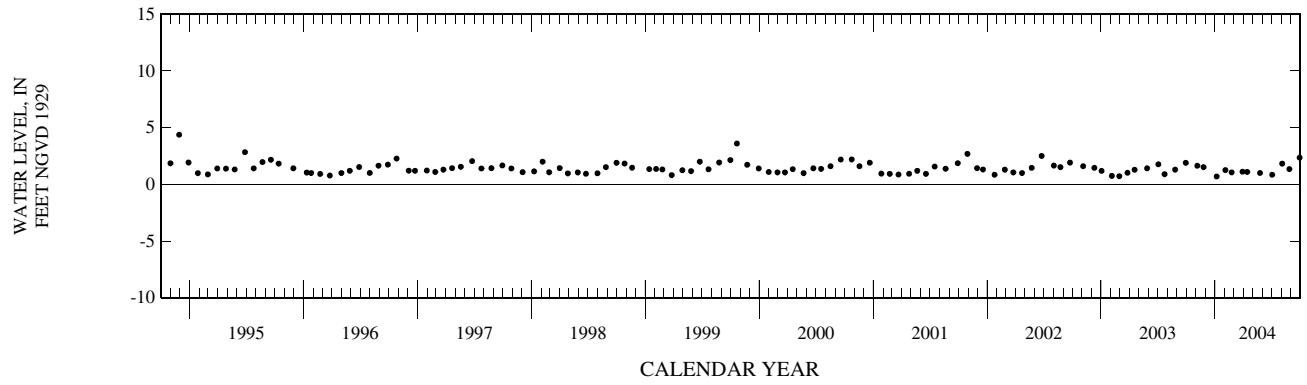
REMARKS.--Well also used for salinity monitoring.

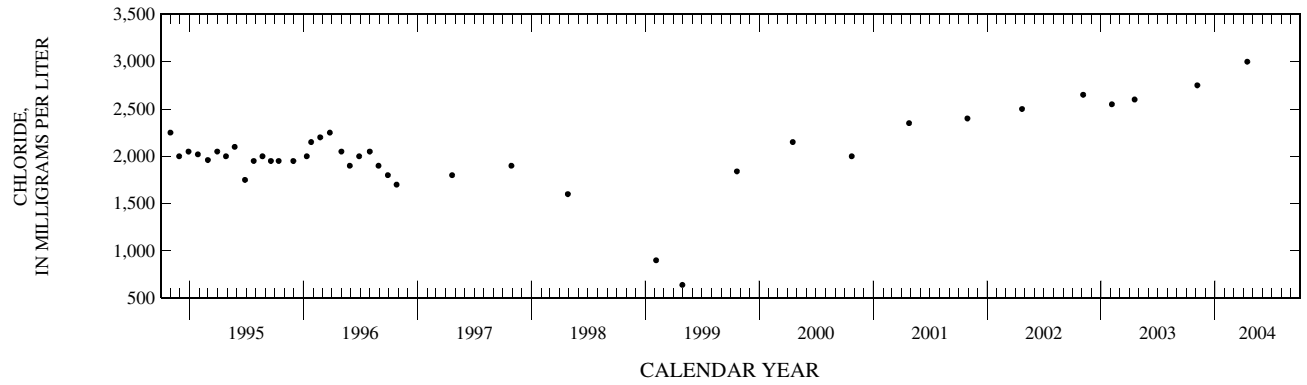
PERIOD OF RECORD.--October 1983 to October 1984 (semiannual), February 1985 to April 1985 (weekly), January 1986 to April 1986 (monthly), October 1986 to October 1990 (semiannual), November 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.37 ft NGVD, Nov. 28, 1994;lowest, 0.11 ft NGVD, Apr.15, 1985.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
NOV				
05...	1248	1.63	8,450	2,750
25...	0943	1.51	--	--
JAN				
06...	1030	.69	--	--
FEB				
03...	1047	1.25	--	--
23...	1023	1.05	--	--
MAR				
29...	1150	1.11	--	--
APR				
13...	1127	1.09	8,300	3,000
MAY				
24...	0930	1.00	--	--
JUL				
02...	1102	.84	--	--
AUG				
03...	0850	1.82	--	--
26...	1013	1.34	--	--
SEP				
28...	1010	2.35	--	--





MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254340080203601. Local Number G 3563. USGS Observation Well near Miami, FL.

LOCATION.--Lat 25°43'43", long 80°20'38", in NE ¼ SE ¼ NW ¼ sec.21, T.54 S., R.40 E., Hydrologic Unit 03090202, at SW 92nd Avenue between SW 43rd Street and SW 43rd Terrace, 7 ft west of curb. (Corrected).

AQUIFER.--Biscayne limestone aquifer of Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 5 in., depth 18.1 ft, cased to 13.1 ft, open hole 13.1 to 18.1 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 11.97 ft above National Geodetic Vertical Datum of 1929.

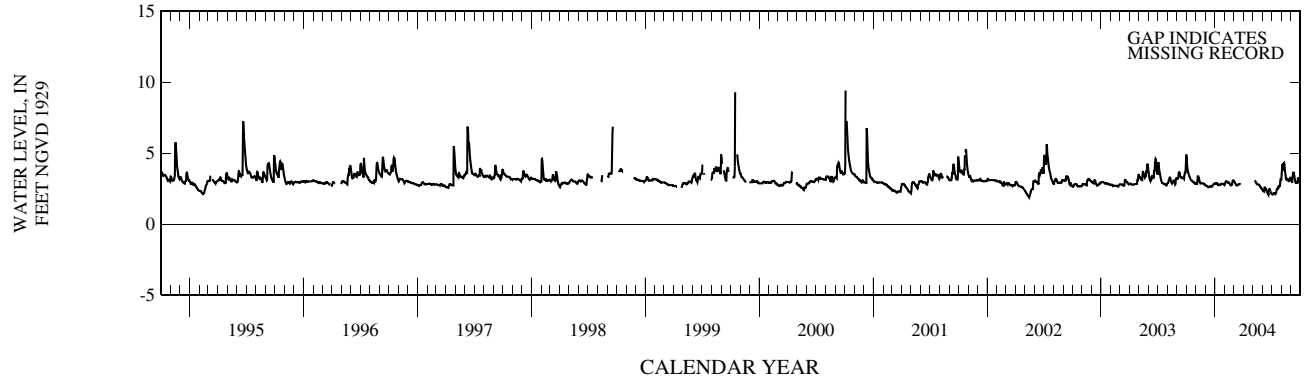
LAND-SURFACE DATUM.--Land surface is approximately 9.3 ft above NGVD. (Corrected).

PERIOD OF RECORD.--September 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 9.42 ft NGVD, Oct. 3, 2000; lowest, 1.88 ft NGVD, May 15, 2002.

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	3.82	3.01	2.69	2.89	3.03	2.88	---	---	2.30	2.17	4.08	3.26
10	3.42	3.22	2.61	2.77	2.93	2.73	---	2.99	2.55	2.16	4.18	3.54
15	3.13	2.87	2.64	2.79	2.90	2.79	---	2.80	2.31	2.23	3.24	2.92
20	3.04	2.89	2.67	2.81	2.74	2.83	---	2.78	2.07	2.49	3.19	2.95
25	2.96	2.83	2.74	2.86	2.93	---	---	2.61	2.43	2.71	3.09	3.15
EOM	2.86	2.77	2.87	2.75	3.08	---	---	2.45	2.13	3.09	3.23	3.12
MAX	4.85	3.37	2.87	2.89	3.08	---	---	---	2.59	3.18	4.32	3.64



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254421080260201. Local Number G 3439. USGS Observation Well near Miami, FL.

LOCATION.--Lat 25°44'21", long 80°26'02", in SE ¼ NE ¼ NE ¼ sec.16, T.54 S., R.39 E., Hydrologic Unit 03090202, on north side of SW 30th Street, 500 ft west of SW 147th Avenue, 0.75 mi north of Bird Road, 15 mi west of Miami.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 12 ft, cased to 10 ft, open hole 10 ft to 12 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of flange, 8.51 ft above National Geodetic Vertical Datum of 1929. From October 5, 1999 to March 14, 2002, the measuring point was 7.49 ft above NGVD. From June 22, 1999 to October 5, 1999, the measuring point was top of base 7.56 ft above NGVD. From April 30, 1987 to March 23, 1994, top of base was 7.89 ft above NGVD. (Corrected).

LAND-SURFACE DATUM.--Land surface is approximately 5.9 ft above NGVD. (Corrected).

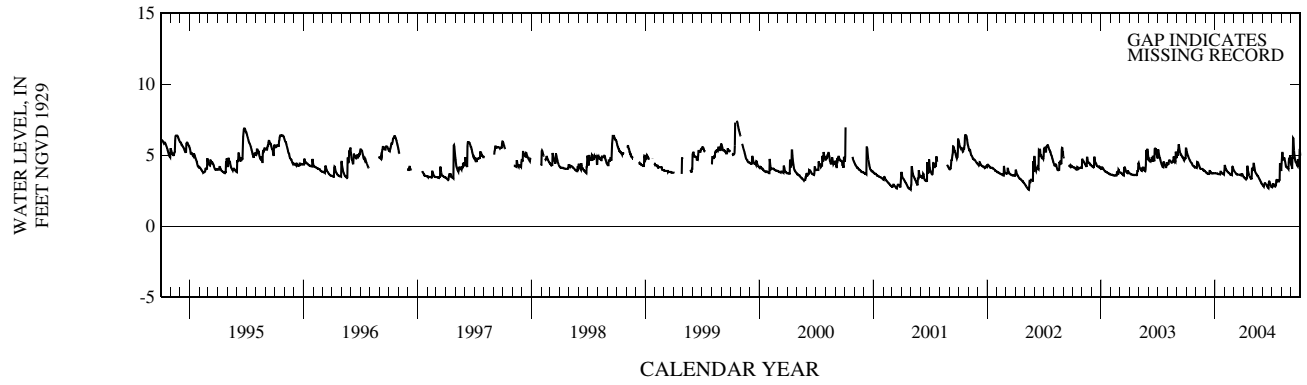
REMARKS.--Station reconstructed June 1994, October 5, 1999, March 14, 2002.

PERIOD OF RECORD.--April 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.44 ft NGVD, Oct. 16, 1999; lowest, 2.15 ft NGVD, May 23, 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	5.03	4.51	3.77	3.73	4.03	3.79	3.38	4.26	2.79	2.97	4.82	4.83
10	4.75	4.31	3.68	3.68	3.83	3.67	3.33	3.78	3.01	2.84	4.79	5.32
15	4.52	4.04	3.90	3.67	3.72	3.64	3.93	3.59	2.86	3.24	4.22	4.53
20	4.34	4.04	3.76	3.84	3.63	3.64	3.56	3.41	2.68	3.16	4.10	4.27
25	4.22	3.93	3.72	3.69	4.18	3.62	3.36	3.19	3.04	3.25	4.82	4.39
EOM	4.17	3.86	3.74	3.92	3.99	3.56	4.05	2.95	2.78	3.90	4.39	4.98
MAX	5.36	4.53	3.90	3.92	4.31	3.94	4.26	4.40	3.15	4.43	5.17	6.22



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254432080240401. Local Number G 3572. USGS Observation Well near Miami, FL.

LOCATION.--Lat 25°44'32", long 80°24'04", in SE ¼ NE ¼ NE ¼ sec.14, T.54 S., R.39 E., Hydrologic Unit 03090202, 6 ft from edge of pavement in southwest corner of cul-de-sac at SW 27th Terrace and SW 127th Avenue.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 5 in., depth 19.4 ft, cased to 14.4 ft, open hole 14.4 to 19.4 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 11.01 ft above National Geodetic Vertical Datum of 1929.

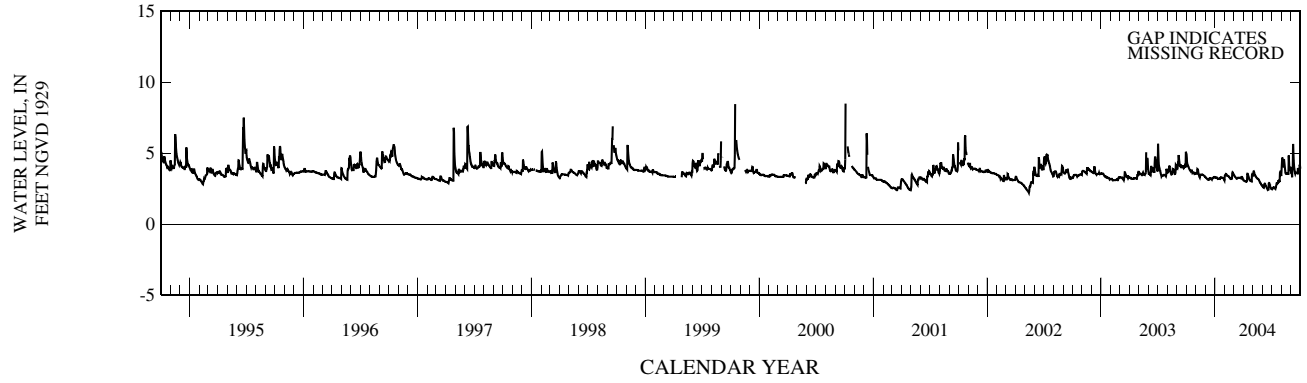
LAND-SURFACE DATUM.--Land surface is approximately 8.3 ft above NGVD. (Corrected).

PERIOD OF RECORD.--September 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.50 ft NGVD, Oct. 3, 2000; lowest, 2.20 ft NGVD, May 14, 2002.

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	4.13	3.88	3.23	3.30	3.53	3.34	3.04	3.67	2.56	2.58	4.15	3.97
10	3.92	3.49	3.14	3.18	3.40	3.21	3.00	3.39	2.75	2.53	4.25	4.11
15	3.71	3.46	3.24	3.20	3.31	3.27	3.50	3.22	2.55	2.70	3.56	3.62
20	3.60	3.50	3.20	3.31	3.18	3.27	3.17	3.13	2.45	2.89	3.58	3.59
25	3.65	3.44	3.26	3.25	3.58	3.28	3.05	2.91	2.73	3.01	4.34	3.56
EOM	3.60	3.33	3.30	3.09	3.52	3.15	3.52	2.71	2.47	3.40	3.67	3.92
MAX	4.95	3.88	3.33	3.31	3.66	3.49	3.56	3.72	2.90	3.69	4.84	5.65



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254442080305201. Local Number G 3576. USGS Observation Well near Miami, FL.

LOCATION.--Lat 25°44'44", long 80°30'51", NE $\frac{1}{4}$ sec. 13, T.54 S., R.38 E., Hydrologic Unit 03090202, 1.1 mi south of U.S. Highway 41 (Tamiami Trail) and 1.03 mi west of levee on west side of L-31N Canal. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 9.6 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of base, 9.51 ft above National Geodetic Vertical Datum of 1929.

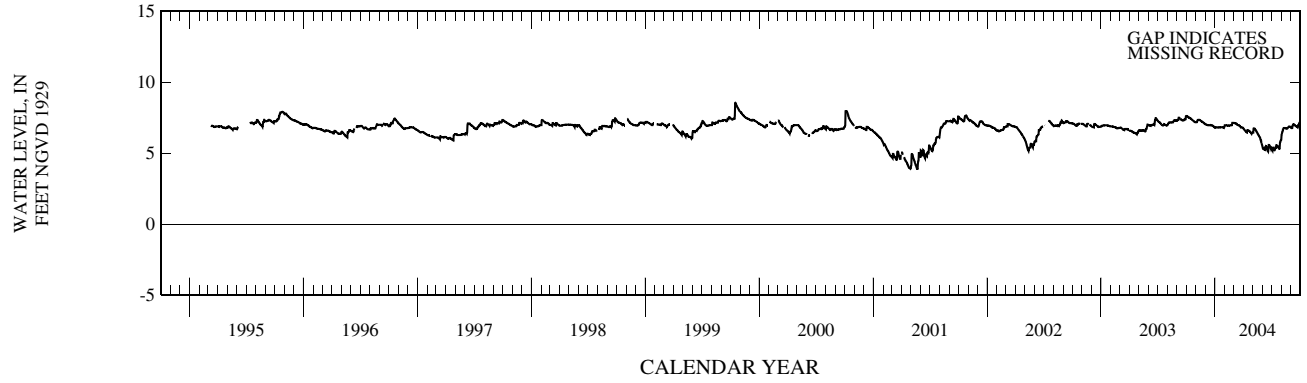
LAND-SURFACE DATUM.--Land surface is approximately 6.0 ft above NGVD.

PERIOD OF RECORD.--March 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.55 ft NGVD, Oct. 16, 1999; lowest, 3.85 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	7.59	7.26	7.01	6.82	6.97	7.12	6.62	6.75	5.35	5.35	6.62	6.91
10	7.50	7.36	6.97	6.83	6.96	7.08	6.49	6.63	5.41	5.22	6.78	7.03
15	7.43	7.30	6.97	6.81	6.96	6.98	6.61	6.45	5.32	5.56	6.75	6.92
20	7.34	7.23	6.97	6.84	6.96	6.93	6.57	6.25	5.27	5.49	6.75	6.85
25	7.24	7.15	6.92	6.83	7.14	6.82	6.43	5.98	5.49	5.32	6.88	6.99
EOM	7.19	7.06	6.80	6.86	7.14	6.78	6.45	5.55	5.41	5.95	6.82	7.15
MAX	7.63	7.36	7.04	6.86	7.14	7.14	6.75	6.75	5.59	5.95	6.88	7.15



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254444080144801. Local Number F 179. USGS Observation Well near South Miami, FL.

LOCATION.--Lat 25°44'44", long 80°14'48", in SE ¼ NW ¼ sec.16, T.54 S., R.41 E., Hydrologic Unit 03090202, at northwest corner of SW 24th Terrace and SW 32nd Avenue, 0.5 mi north of U.S. Highway 1, and 3.8 mi northeast of South Miami.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 77 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of plywood base, 11.26 ft above National Geodetic Vertical Datum of 1929. Prior to December 1982, measuring point was top of casing, 11.17 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 9.5 ft above NGVD. (Corrected).

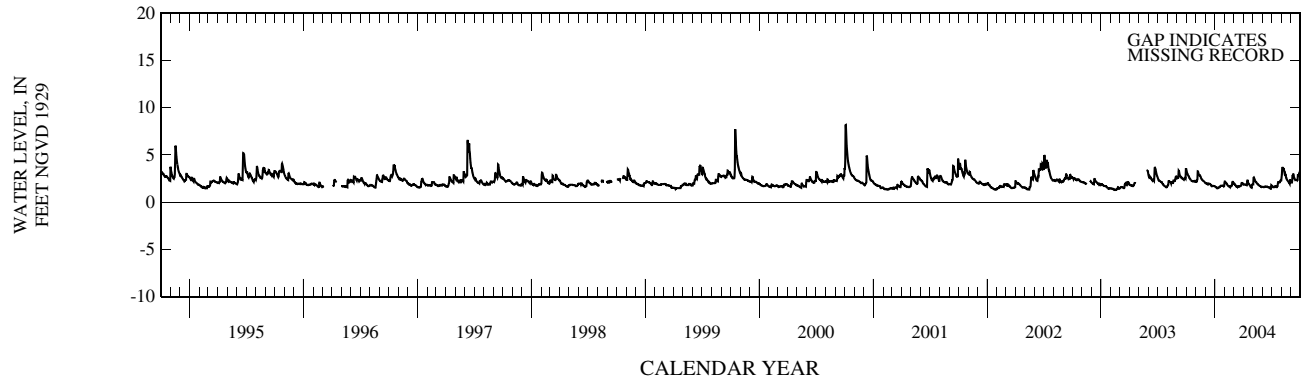
REMARKS.--Records of water levels prior to January 1957 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--May 1940 to current year. (Corrected).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.16 ft NGVD, Oct. 4, 2000; lowest, 0.69 ft NGVD, Mar. 18, 1943.

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	2.97	2.39	1.98	1.55	2.04	1.85	1.87	2.56	1.60	1.60	3.64	2.77
10	2.58	2.92	1.98	1.52	1.79	1.65	1.82	2.18	1.65	1.60	3.14	2.67
15	2.34	2.74	1.94	1.59	1.66	1.69	2.16	1.96	1.66	1.63	2.72	2.36
20	2.24	2.39	1.77	1.73	1.67	1.70	1.87	1.80	1.57	1.98	2.31	2.30
25	2.21	2.24	1.73	1.73	2.08	1.94	1.57	1.71	1.50	2.16	2.08	2.79
EOM	2.17	2.07	1.69	2.02	1.98	1.89	1.88	1.62	1.76	2.30	2.16	3.32
MAX	3.36	3.25	2.04	2.02	2.18	2.03	2.28	2.62	1.79	2.30	3.64	3.32



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254445080295001. Local Number G 3559. USGS Observation Well near Miami, FL.

LOCATION.--Lat 25°44'45", long 80°29'50", in SE ¼ SE ¼ SE ¼ sec.11, T.54 S., R.38 E., Hydrologic Unit 03090202, 1 mi south of Tamiami Trail (U.S. Highway 41) and 100 ft east of L-31N Canal.

AQUIFER.--Biscayne limestone aquifer of Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 5 in., depth 19.5 ft, cased to 14.5 ft, screened 14.5 to 19.5 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of shelf, 11.11 ft above National Geodetic Vertical Datum of 1929. During the 1994 water year the measuring point was incorrectly considered to be 11.38 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 8.6 ft above NGVD.

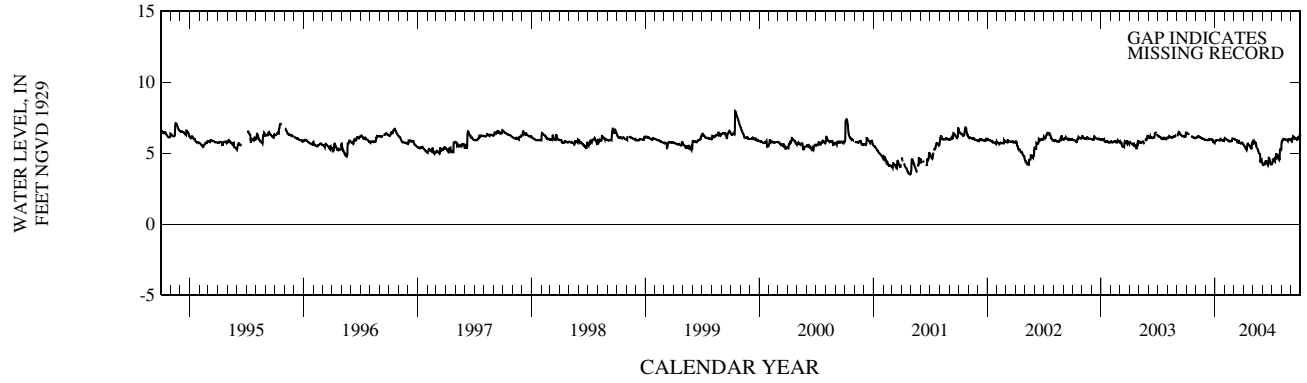
REMARKS.--The figures of water levels as elevation, in feet NGVD, published for the 1994 water year are in error. Corrected records are in the files of the U.S. Geological Survey. See DATUM.

PERIOD OF RECORD.--April 1994 to current year

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.97 ft NGVD, Oct. 15, 1999; lowest, 3.51 ft NGVD, Apr. 27-29, 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	6.39	6.18	5.93	5.92	6.00	5.96	5.49	5.81	4.20	4.58	5.92	6.07
10	6.30	6.18	5.96	5.93	5.92	5.92	5.29	5.72	4.42	4.42	6.02	6.05
15	---	6.11	5.99	5.91	5.88	5.85	5.69	5.34	4.32	4.99	5.94	6.05
20	6.16	6.04	5.98	5.97	5.83	5.74	5.55	5.04	4.23	4.77	5.89	5.96
25	6.09	5.99	5.82	5.90	6.04	5.73	5.36	4.35	4.46	4.63	6.00	6.05
EOM	6.09	5.94	5.83	6.01	6.02	5.65	5.67	4.33	4.26	5.27	5.94	6.17
MAX	---	6.20	6.00	6.01	6.07	6.02	5.76	5.89	4.68	5.29	6.02	6.32



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254446080295501. Local Number G 3574. USGS Observation Well near Miami, FL.

LOCATION.--Lat 25°44'46", long 80°29'55", in NE ¼ NE ¼ NE ¼ sec.14, T.54 S., R.38 E., Hydrologic Unit 03090202, 1.06 mi south of U.S. Highway 41 (Tamiami Trail) next to levee on west side of L-31N Canal.

AQUIFER.--Biscayne limestone aquifer of Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 6.8 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of base, 8.88 ft above National Geodetic Vertical Datum of 1929.

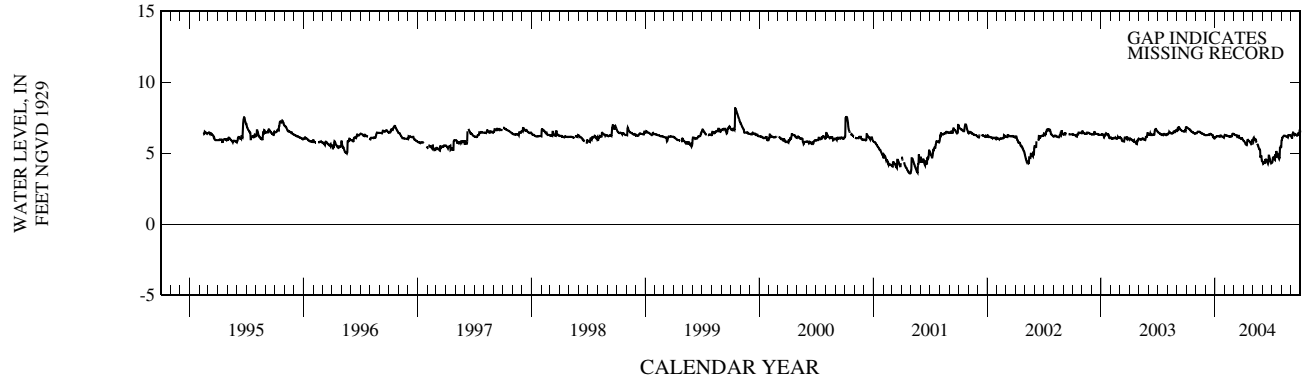
LAND-SURFACE DATUM.--Land surface is approximately 6.2 ft above NGVD.

PERIOD OF RECORD.--February 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.18 ft NGVD, Oct. 15, 16, 1999; lowest, 3.58 ft NGVD, Apr. 27-29, 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	6.78	6.50	6.29	6.18	6.26	6.29	5.79	6.04	4.30	4.68	6.14	6.34
10	6.69	6.52	6.31	6.21	6.23	6.26	5.59	5.96	4.59	4.55	6.24	6.33
15	6.56	6.46	6.34	6.18	6.20	6.21	5.94	5.66	4.44	5.16	6.19	6.31
20	6.50	6.40	6.33	6.23	6.17	6.08	5.83	5.38	4.34	4.88	6.14	6.24
25	6.42	6.34	6.16	6.15	6.35	6.05	5.67	4.69	4.57	4.70	6.28	6.33
EOM	6.42	6.28	6.11	6.23	6.36	5.91	5.89	4.46	4.38	5.47	6.22	6.47
MAX	6.85	6.52	6.36	6.25	6.38	6.33	5.94	---	4.83	5.47	6.28	6.63



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254457080160301. Local Number G 3229. USGS Observation Well near Coral Gables, FL.

LOCATION.--Lat 25°44'57", long 80°16'03", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.8, T.54 S., R.41 E., Hydrologic Unit 03090202, near intersection of Coral Way and Segovia at east end of golf course.

AQUIFER.--Biscayne limestone aquifer of Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 85 ft.

INSTRUMENTATION.--Monthly measurement with chalk tape.

DATUM.--Measuring point: Top of casing, 6.92 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 6.9 ft above NGVD.

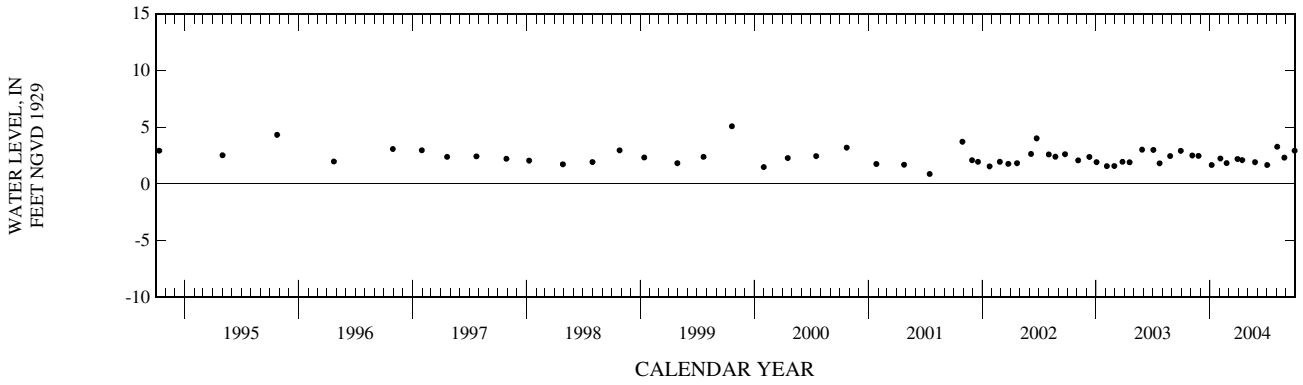
REMARKS.--Well is also used for salinity monitoring.

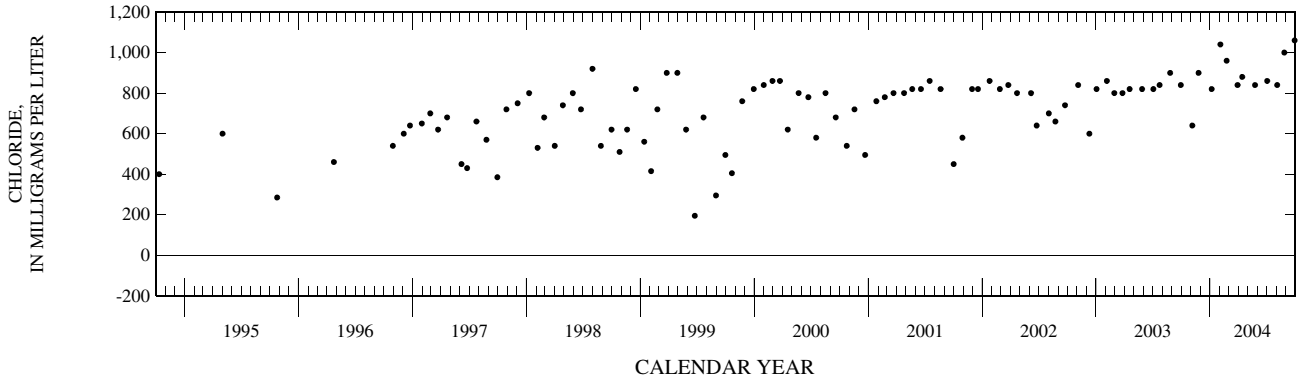
PERIOD OF RECORD.--October 1993 to April 1996 (semiannual); October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.08 ft NGVD, Oct. 21, 1999; lowest, 0.88 ft NGVD, July 16, 2001.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
NOV				
05...	1147	2.51	2,500	640
25...	0903	2.47	3,140	900
JAN				
06...	1000	1.67	3,100	820
FEB				
03...	1005	2.24	3,180	1,040
23...	0940	1.84	3,190	960
MAR				
29...	1130	2.20	2,960	840
APR				
13...	1100	2.10	2,930	880
MAY				
24...	0852	1.92	3,070	840
JUL				
02...	1033	1.67	3,150	860
AUG				
03...	0808	3.28	3,010	840
26...	0941	2.32	3,060	1,000
SEP				
28...	0934	2.93	3,180	1,060





MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254500080360001. Local Number G 618. USGS Observation Well near Miami, FL.

LOCATION.--Lat 25°45'40", long 80°36'00", in NE $^1/_4$ NE $^1/_4$ sec.12, T.54 S., R.37 E., Hydrologic Unit 03090202, on south side of U.S. Highway 41, 7.4 mi west of State Road 997 (Krome Avenue), and 25 mi west of Miami.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 20 ft, cased to 11 ft.

INSTRUMENTATION.--Electronic data recorder.

DATUM.--Measuring point: Top of base, 10.17 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 7.4 ft above NGVD.

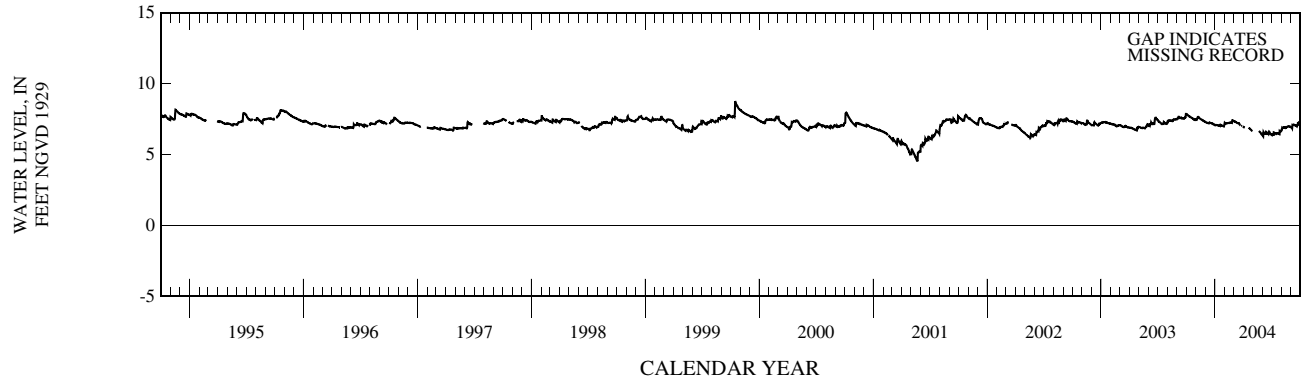
REMARKS.--Records of water levels prior to January 1957 are available in the files of the U.S. Geological Survey.

PERIOD OF RECORD.--January 1950 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 9.52 ft NGVD, Nov. 2, 1960; lowest, 2.56 ft NGVD, May 2, 1962.

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	7.78	7.56	7.25	7.09	7.21	7.33	6.89	---	6.54	6.42	6.88	7.09
10	7.69	7.61	7.21	7.07	7.21	7.25	---	---	6.46	6.45	6.92	7.10
15	7.63	7.51	7.25	7.03	7.24	7.21	---	---	6.49	6.47	6.91	7.04
20	7.55	7.45	7.21	7.08	7.25	7.11	6.85	6.66	6.46	6.50	6.96	7.04
25	7.47	7.37	7.15	7.02	7.42	7.00	6.74	6.56	6.51	6.44	7.00	7.20
EOM	7.47	7.31	7.09	7.14	7.36	6.97	---	6.38	6.41	6.66	6.92	7.26
MAX	7.85	7.64	7.29	7.14	7.42	---	---	---	6.63	6.66	7.00	7.28



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254536080172601. Local Number G 3570. USGS Observation Well near Miami, FL.

LOCATION.--Lat 25°45'36", long 80°17'26", in SW ¼ NW ¼ NE ¼ sec.12, T.54 S., R.40 E., Hydrologic Unit 03090202, at the northeast corner of SW 11th Street and SW 58th Avenue, 10 ft south of SW 11th Street and 22 ft west of SW 58th Avenue.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 5 in., depth 18.7 ft, cased to 13.7 ft, open hole 13.7 to 18.7 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring Point: Top of base, 13.28 ft above National Geodetic Vertical Datum of 1929.

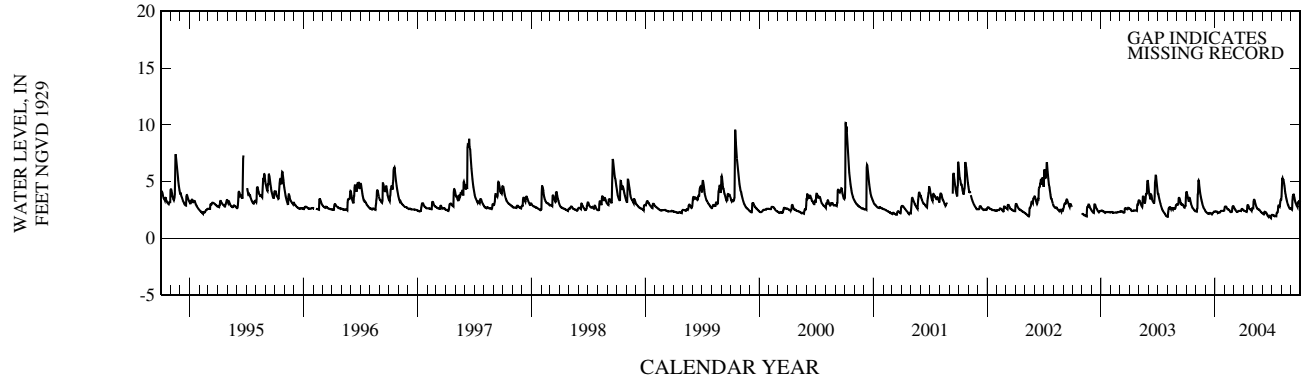
LAND-SURFACE DATUM.--Land surface is approximately 10.3 ft above NGVD. (Corrected).

PERIOD OF RECORD.--September 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 10.16 ft NGVD, Oct. 3, 2000; lowest, 1.78 ft NGVD, June. 28, 2004.

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	3.69	2.64	2.28	2.37	2.80	2.55	2.41	3.40	2.12	2.03	5.18	3.35
10	3.55	5.01	2.21	2.23	2.57	2.35	2.35	3.00	2.29	1.95	4.62	3.75
15	3.13	3.85	2.24	2.28	2.49	2.38	2.92	2.65	2.14	1.96	3.71	3.11
20	2.72	3.17	2.17	2.41	2.32	2.42	2.61	2.54	1.91	2.42	3.11	2.82
25	2.55	2.70	2.25	2.42	2.63	2.50	2.49	2.38	1.86	2.79	2.73	3.16
EOM	2.41	2.45	2.37	2.56	2.82	2.51	2.68	2.23	2.05	3.43	2.62	3.21
MAX	4.07	5.10	2.41	2.56	2.83	2.76	2.92	3.40	2.34	3.43	5.30	3.86



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254629080143101. Local Number G 3605. USGS Observation Well near Miami, FL.

LOCATION.--Lat 25°46'29", long 80°14'31", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.4, T.54 S., R.41 E., Hydrologic Unit 03090202, at northwest corner of Dade County Auditorium parking lot, northwest of the intersection of NW 29th Avenue and Flagler Street.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 110 ft, cased to 105 ft, screened 105 to 110 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 13.17 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 13.2 ft above NGVD.

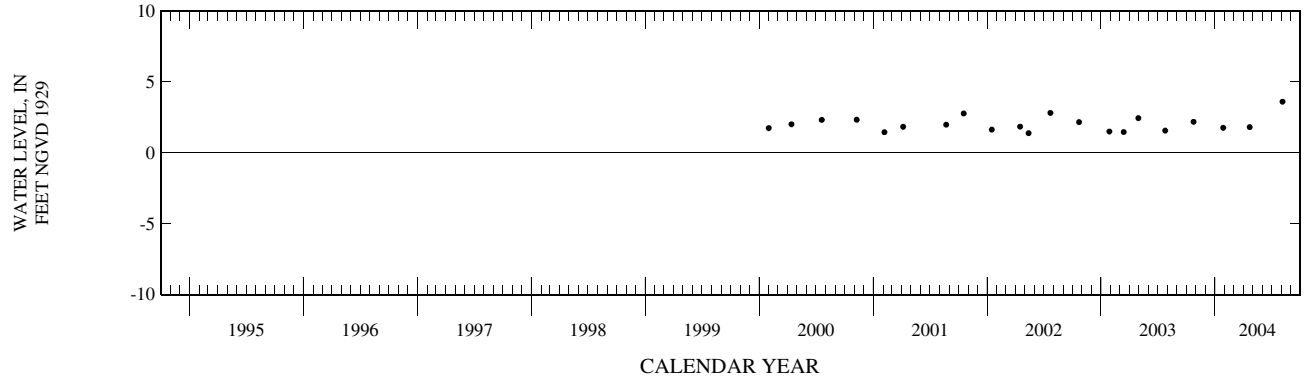
REMARKS.--Well is also used for quarterly salinity monitoring, including an annual induction log. Induction logs are used to assess movement of the fresh-water/salt-water interface in ground water. See EXPLANATION OF THE RECORDS SECTION, RECORDS OF BULK CONDUCTIVITY in the front of this book. A calibration error was found to have affected some of the historical bulk conductivity logs. Bulk conductivity logs prior to the 2002 water year had been (with the exception of 1998) calibrated to a standard of 1,301 mS/m. For these calibrations an internal setting limited the probe response to 1,000 mS/m. Data for the affected years was corrected by applying a 0.7686 multiplier. The induction log for the 2002 water year was not published because the data was considered questionable. This data may be published in subsequent years pending continued assessment of data quality. Salinity monitoring began September 1995. Water-level measurements began January 2000.

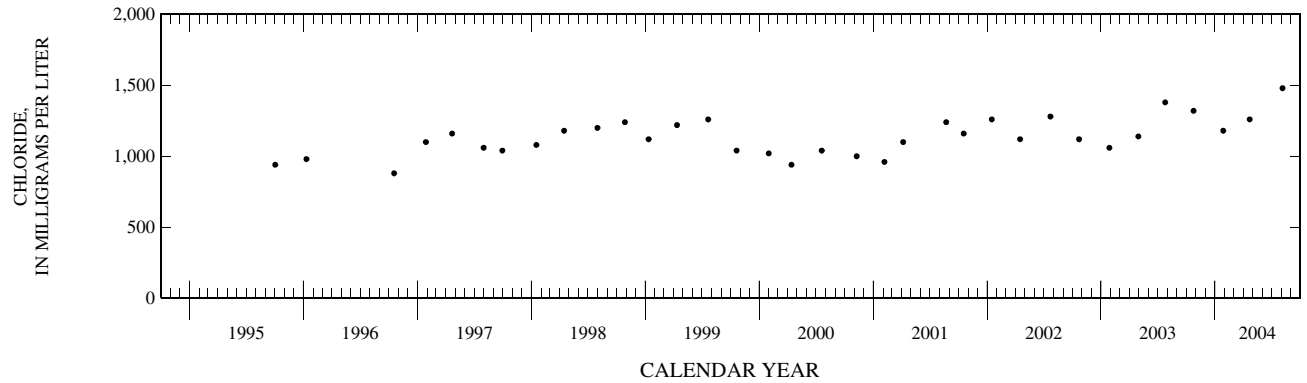
PERIOD OF RECORD.--September 1995 to current year. See REMARKS.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.61 ft NGVD, Aug. 4, 2004; lowest, 1.39 ft NGVD, May 13, 2002.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

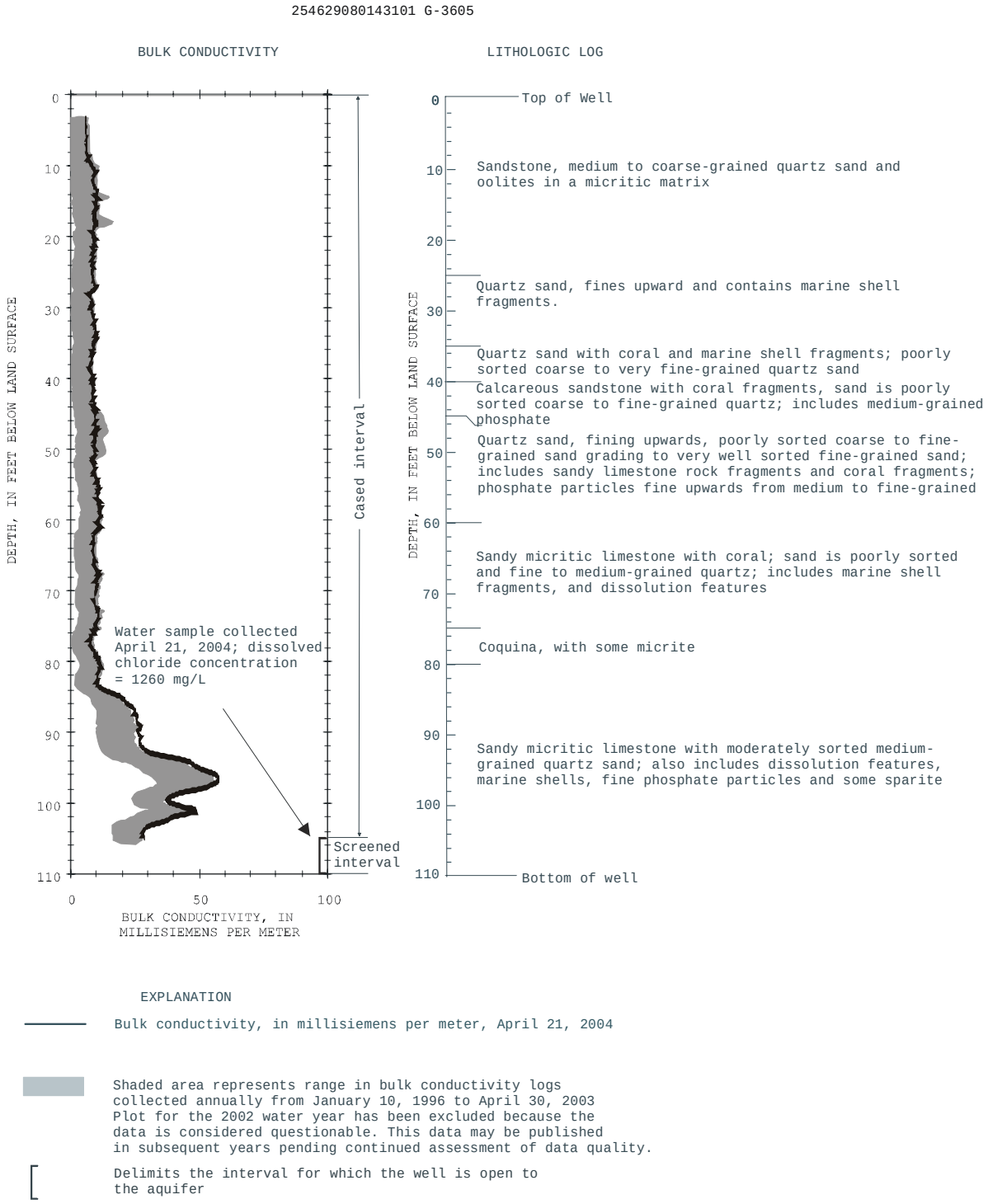
Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
24...	1000	2.19	4,480	1,320
JAN				
27...	1048	1.77	4,440	1,180
APR				
21...	1145	1.82	4,300	1,260
AUG				
04...	1012	3.61	5,420	1,480





MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254629080143101. Local Number G 3605. USGS Observation Well near Miami, FL.-Continued



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254657080214401. Local Number G 3568. USGS Observation Well near Miami, FL.

LOCATION.--Lat 25°46'57", long 80°21'44", in SE ¼ SE ¼ SW ¼ sec.32, T.53 S., R.40 E., Hydrologic Unit 03090202, 10 ft south of edge of NW 12th Street and 1,742 ft east of NW 107th Avenue.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 5 in., depth 16.8 ft, cased to 11.8 ft, open hole 11.8 to 16.8 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 11.15 ft above National Geodetic Vertical Datum of 1929.

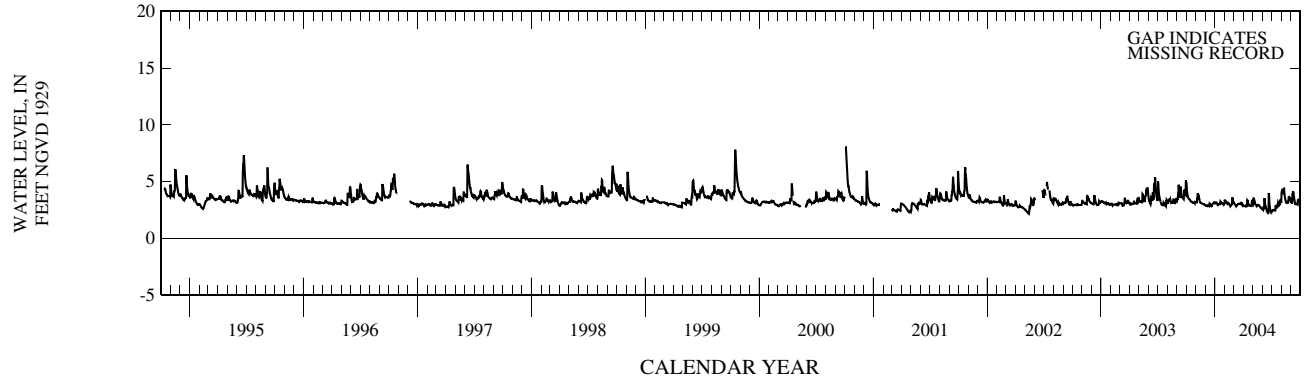
LAND-SURFACE DATUM.--Land surface is approximately 7.8 ft above NGVD. (Corrected).

PERIOD OF RECORD.--September 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.05 ft NGVD, Oct. 3, 4, 2000; lowest, 2.17 ft NGVD, May 14, 2002.

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	3.78	3.49	2.87	3.16	3.25	2.96	2.87	3.42	2.64	2.51	4.02	3.86
10	3.45	3.69	2.92	2.93	3.11	2.88	2.81	3.00	2.81	2.46	3.94	3.61
15	3.26	3.14	3.04	3.04	3.01	3.03	3.21	2.91	2.41	2.67	3.17	3.03
20	3.17	3.08	2.86	3.14	2.87	3.06	2.87	2.93	2.31	2.83	3.18	3.01
25	3.14	3.01	3.07	3.04	3.55	3.14	2.87	2.73	2.63	3.09	3.61	3.16
EOM	3.19	2.93	3.13	3.04	3.22	2.84	3.23	2.59	2.42	3.13	3.24	3.59
MAX	4.79	3.97	3.17	3.24	3.55	3.15	3.39	3.52	3.99	3.42	4.45	4.14



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254720080253002. Local Number G 3676. USGS Observation Well near Miami, FL.

LOCATION.--Lat 25°47'20", long 80°25'30", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.34, T.53 S., R.39 E., Hydrologic Unit 03090202, on north side of service road and north side of conveyor belt, on Rinker Materials property, 0.4 mi west of NW 137th Avenue 1.7 mi north of U.S. Highway 41 (Tamiami Trail). (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 33 ft, cased to 23 ft, screened 23 to 33 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of shelf, 10.90 ft above National Geodetic Vertical Datum of 1929.

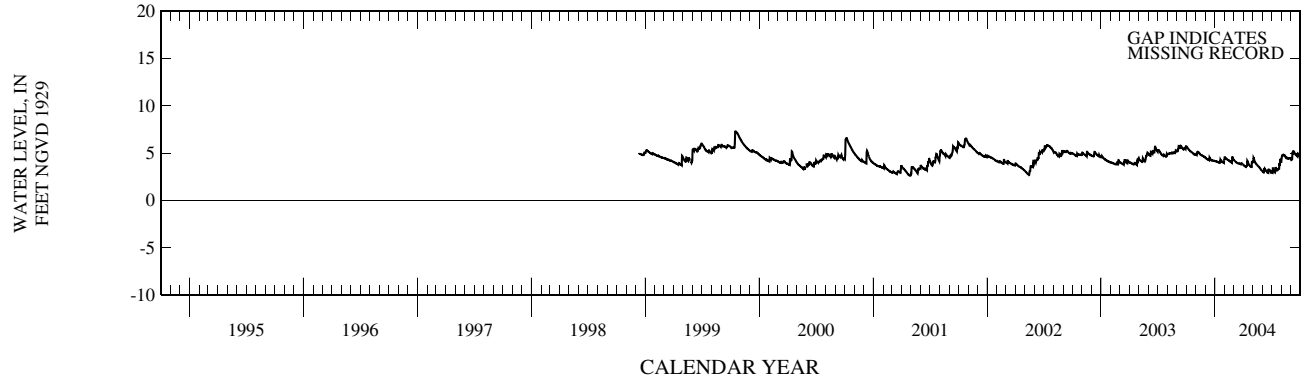
LAND-SURFACE DATUM.--Land surface is approximately 8.3 ft above NGVD.

PERIOD OF RECORD.--December 1998 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.30 ft NGVD, Oct. 16, 17, 1999; lowest, 2.63 ft NGVD, Apr. 29, 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	5.55	5.14	4.41	4.14	4.44	4.16	3.65	4.29	2.97	3.29	4.81	5.00
10	5.33	5.07	4.36	4.07	4.30	4.00	3.64	3.96	3.22	3.01	4.82	5.15
15	5.19	4.85	4.48	4.02	4.22	3.94	4.01	3.73	3.03	3.23	4.52	4.90
20	5.05	4.77	4.28	4.16	4.08	3.89	3.74	3.57	3.03	3.29	4.48	4.68
25	4.90	4.67	4.22	4.07	4.58	3.93	3.56	3.35	3.17	3.93	4.50	4.77
EOM	4.86	4.54	4.17	4.34	4.33	3.78	4.06	3.12	2.99	3.99	4.38	5.01
MAX	5.70	5.16	4.55	4.34	4.64	4.30	4.19	4.53	3.42	4.40	4.83	5.20



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254722080152201. Local Number G 3604. USGS Observation Well near Miami, FL.

LOCATION.--Lat 25°47'22", long 80°15'22", in NE ¼ SE ¼ NE ¼ sec.32, T.53 S., R.41 E., Hydrologic Unit 03090202, at north side of parking lot of Stephen Clark Building, at intersection of NW 37th Avenue and NW 17th Street, 57 ft west of sidewalk, 0.3 mi north of State Road 836.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 120 ft, cased to 115 ft, screened 115 to 120 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape.

DATUM.--Measuring Point: Top of casing, 5.03 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 5.0 ft above NGVD.

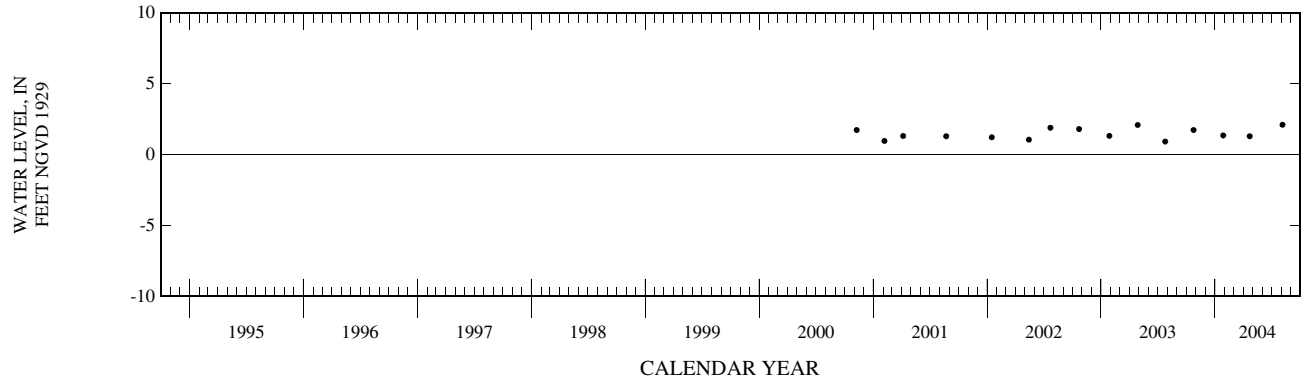
REMARKS.--Well is also used for salinity monitoring, including an annual induction log. Induction logs are used to assess movement of the fresh-water/salt-water interface in ground water. See EXPLANATION OF THE RECORDS SECTION, RECORDS OF BULK CONDUCTIVITY in the front of this book. A calibration error was found to have affected some of the historical bulk conductivity logs. Bulk conductivity logs prior to the 2002 water year had been (with the exception of 1998 and 2000) calibrated to a standard of 1,301 mS/m. For these calibrations an internal setting limited the probe response to 1,000 mS/m. Data for the affected years was corrected by applying a 0.7686 multiplier. Salinity monitoring began August 1995. Water-level measurements began November 2000.

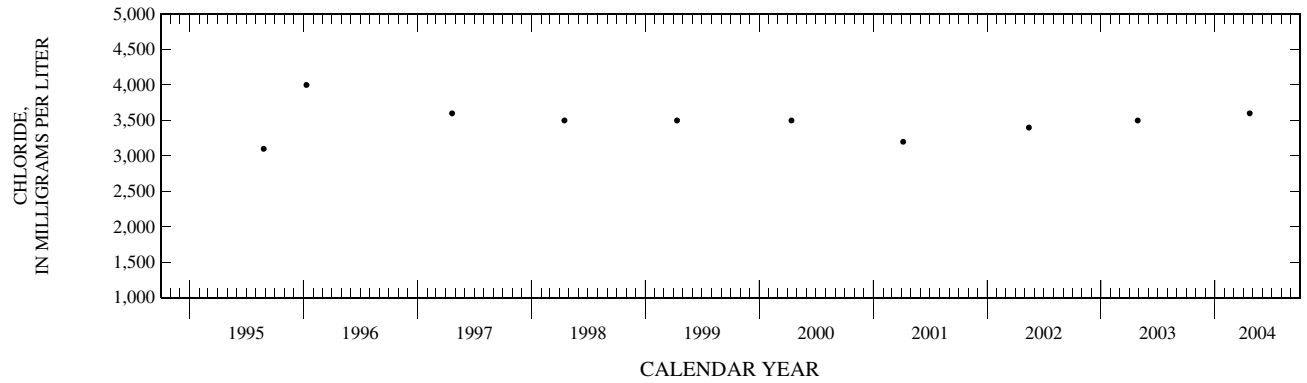
PERIOD OF RECORD.--August 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.10 ft NGVD, Aug. 4, 2004; lowest, 0.96 ft NGVD, Feb. 5, 2001.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

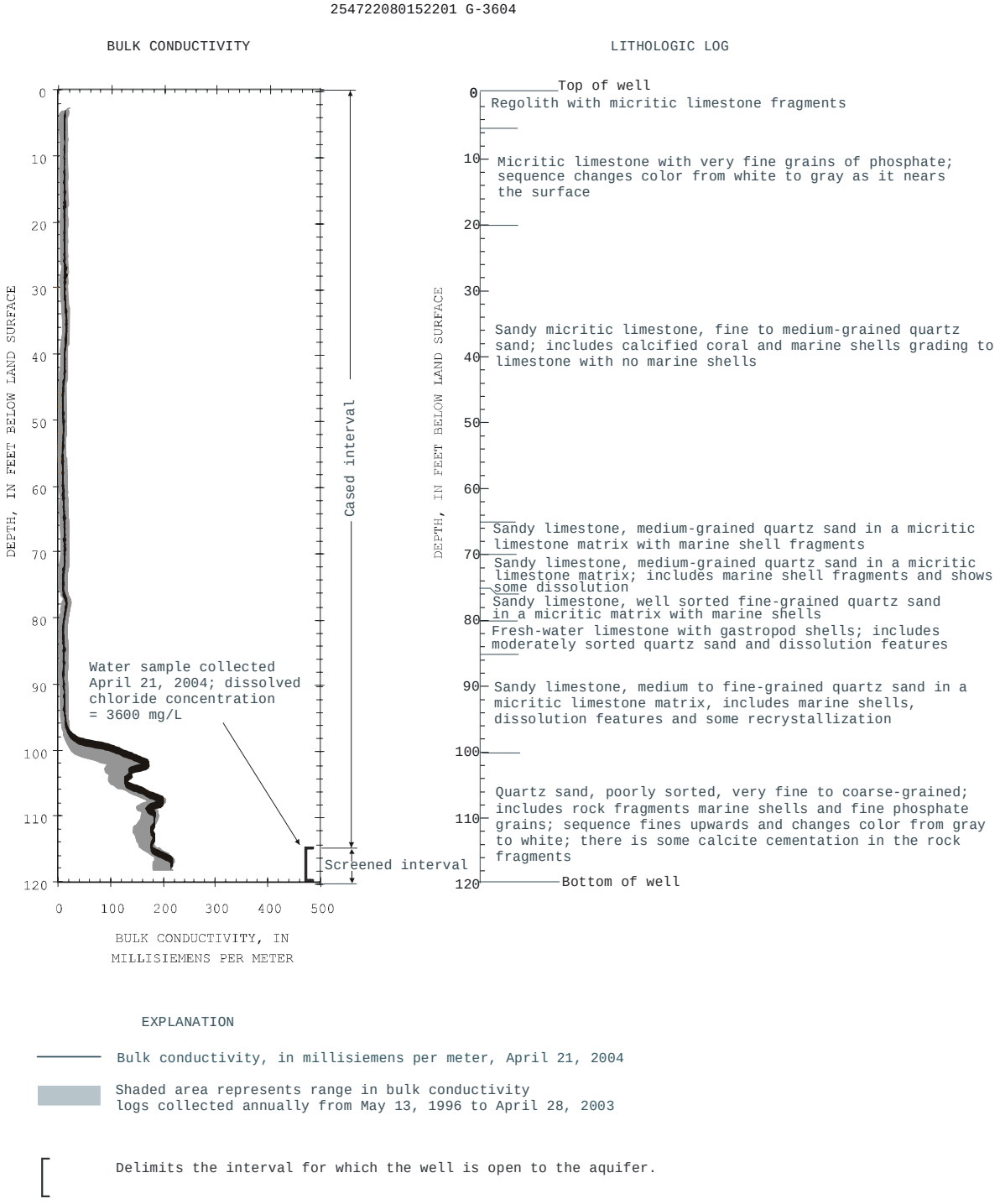
Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
24...	0945	1.73	--	--
JAN				
27...	1030	1.35	--	--
APR				
21...	0958	1.29	11,200	3,600
AUG				
04...	0958	2.10	--	--





MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254722080152201. Local Number G 3604. USGS Observation Well near Miami, FL.-Continued



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254752080181501. Local Number G 3329. USGS Observation Well near Miami Springs, FL.

LOCATION.--Lat 25°47'52", long 80°18'15", in SW ¼ SW ¼ sec.25, T.53 S., R.40 E., Hydrologic Unit 03090202, on the west side of Miami International Airport, 314 ft north of NW 25th Street, 0.5 mi east of Milam Dairy Road. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 54.6 ft, cased to 53 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of plywood base, 9.30 ft above National Geodetic Vertical Datum of 1929.

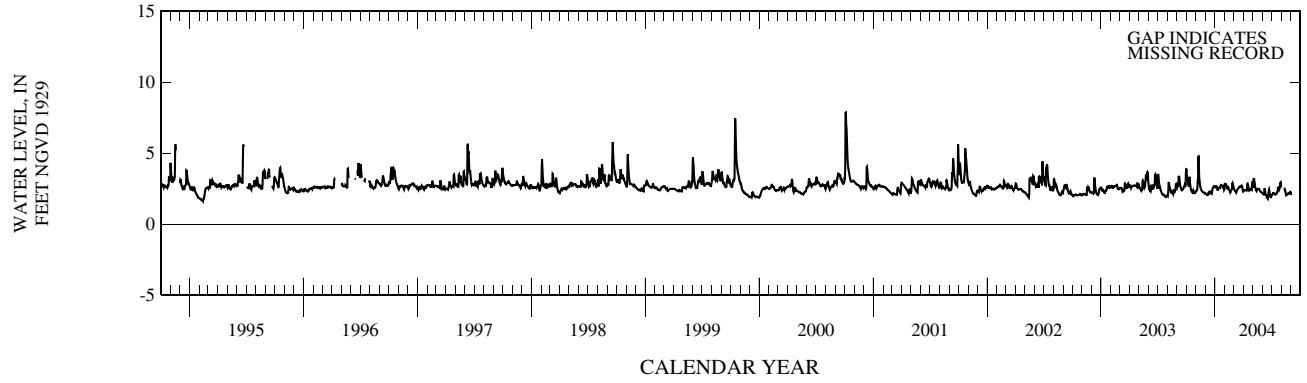
LAND-SURFACE DATUM.--Land surface is approximately 6.6 ft above NGVD. (Corrected).

PERIOD OF RECORD.--January 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.86 ft NGVD, Oct. 4, 2000; lowest, 1.63 ft NGVD, Feb. 12, 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	3.02	2.51	2.09	2.68	2.82	2.32	2.41	3.14	2.08	2.19	---	---
10	3.29	3.91	2.18	2.42	2.58	2.31	2.38	2.51	2.20	2.13	2.57	---
15	2.49	2.62	2.30	2.60	2.39	2.52	2.79	2.43	1.91	2.10	2.13	---
20	2.24	2.33	2.15	2.71	2.31	2.65	2.40	2.49	2.09	2.54	2.11	---
25	2.20	2.24	2.56	2.63	2.85	2.67	2.45	2.31	2.03	2.48	2.19	---
EOM	2.32	2.17	2.62	2.46	2.61	2.30	2.85	2.20	2.04	2.60	2.19	2.31
MAX	3.86	4.77	2.68	2.73	2.89	2.71	2.89	3.24	2.47	2.95	---	---



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254813080161501. Local Number G 1351. USGS Observation Well near Miami Springs, FL.

LOCATION.--Lat 25°48'13", long 80°16'15", in NE ¼ SW ¼ NW ¼ sec.29, T.53 S., R.41 E., Hydrologic Unit 03090202, approximately 3 ft north of access road between canal and fence, behind the former Eastern Airlines hanger, west of Le Jeune Road.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 103 ft, cased to 100 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 6.80 ft above National Geodetic Vertical Datum of 1929. Prior to November 22, 2002, measuring point was 6.52 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 6.8 ft above NGVD. Prior to November 22, 2002, land surface was approximately 6.5 ft above NGVD. See REMARKS.

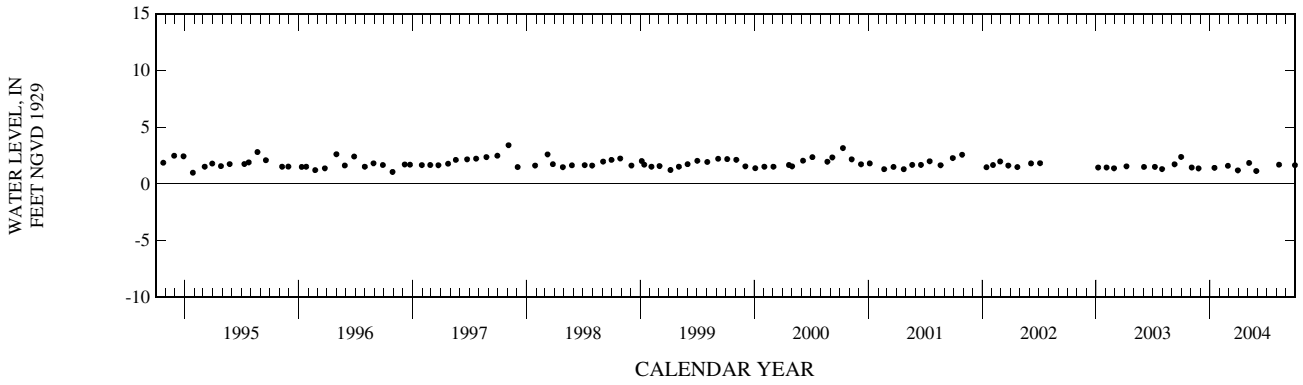
REMARKS.--Well also used for salinity monitoring. The well was buried by road construction in August 2002. In November 22, 2002, the well was uncovered and reconstructed. As a result both land surface and the measuring point changed. See DATUM and LAND-SURFACE DATUM.

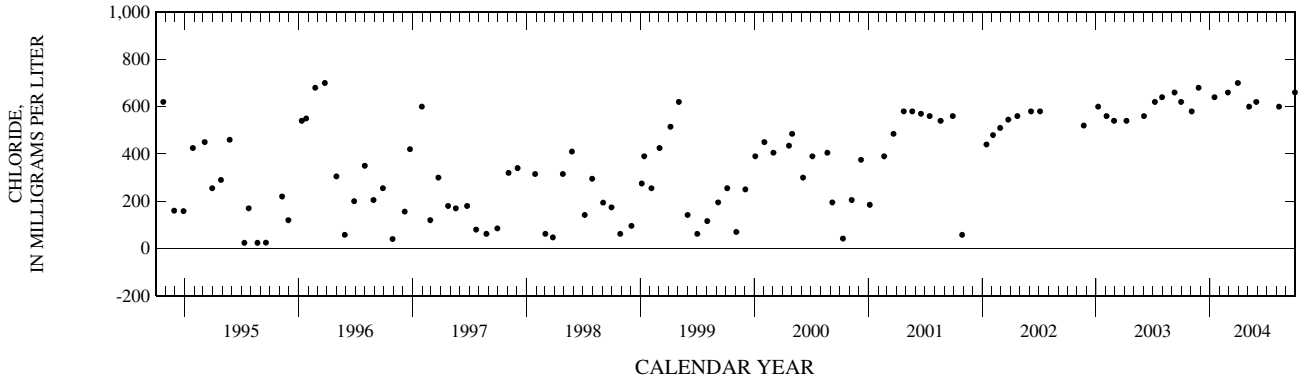
PERIOD OF RECORD.--October 1975 to September 1990 (intermittent), October 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.41 ft NGVD, Nov. 4, 1997; lowest, 1.18 ft below NGVD, Oct. 7, 1986.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
NOV				
03...	1245	1.45	2,220	580
25...	0730	1.37	2,180	680
JAN				
15...	1310	1.42	2,220	640
FEB				
27...	1420	1.60	2,300	660
MAR				
30...	1050	1.20	2,190	700
MAY				
05...	1307	1.85	2,420	600
28...	1330	1.14	2,440	620
AUG				
09...	1353	1.70	2,410	600
SEP				
29...	1307	1.65	2,320	660





MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254822080125501. Local Number G 3704. USGS Observation Well in Miami, FL.

LOCATION.--Lat 25°48'22", long 80°12'55", in SW $^1/_4$ NW $^1/_4$ NE $^1/_4$ sec.26, T.53 S., R.41 E., Hydrologic Unit 03090202, in the southeast corner of the Metrorail parking lot, 36 ft north of NW 32nd Street and 55 ft west of NW 11th Place.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 112 ft, cased to 107 ft, screened 107 to 112 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 10.36 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 10.4 ft above NGVD.

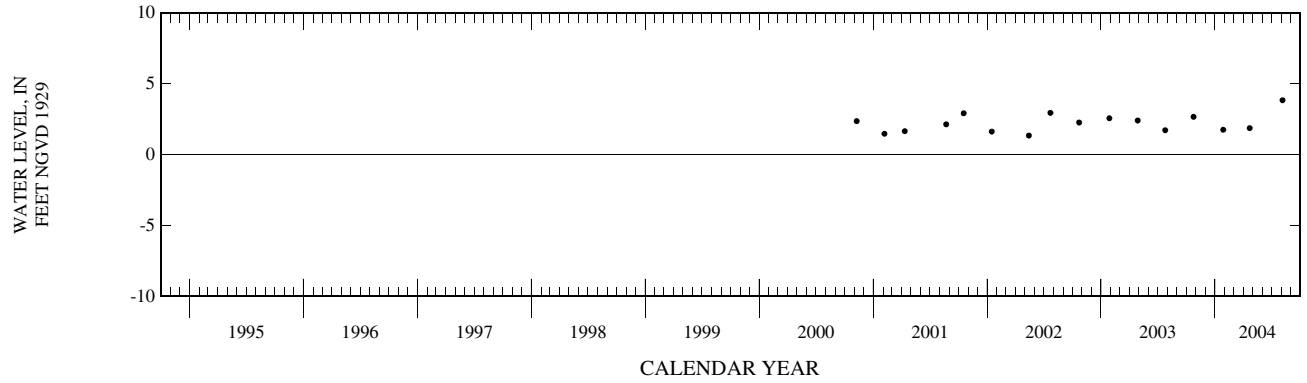
REMARKS.--Well is also used for annual salinity monitoring, including an annual induction log. Induction logs are used to assess the movement of the fresh-water/salt-water interface in ground water. A calibration error was found to have affected some of the historical bulk conductivity logs. Bulk conductivity logs prior to the 2002 water year had been calibrated to a standard of 1,301 mS/m. For these calibrations an internal setting limited the probe response to 1,000 mS/m. Data for the affected years was corrected by applying a 0.7686 multiplier. See EXPLANATION OF THE RECORDS SECTION, RECORDS OF BULK CONDUCTIVITY in the front of the book. Induction logging began April 2000. Water-level measurements began November 2000. Salinity monitoring began in April 2003.

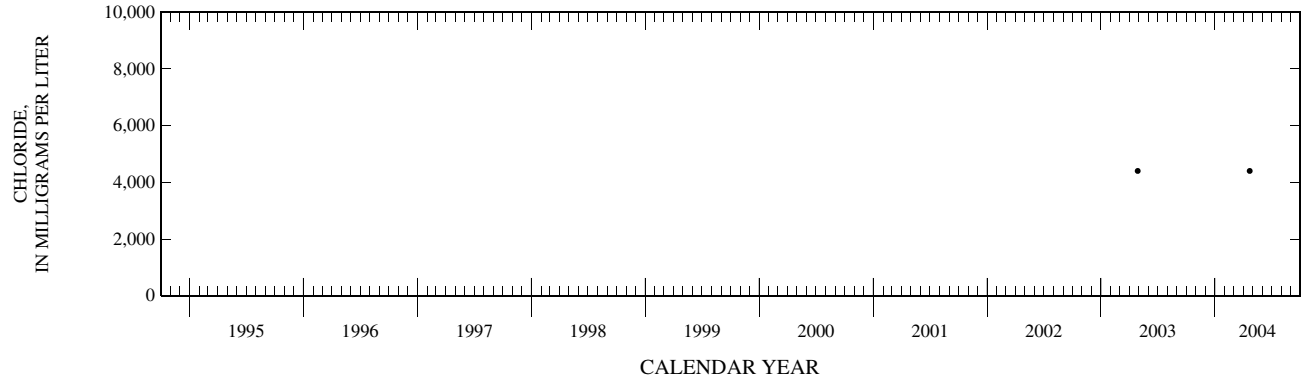
PERIOD OF RECORD.--April 2000 to current year. See REMARKS.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.83 ft NGVD, Aug. 4, 2004; lowest, 1.34 ft NGVD, May 14, 2002.

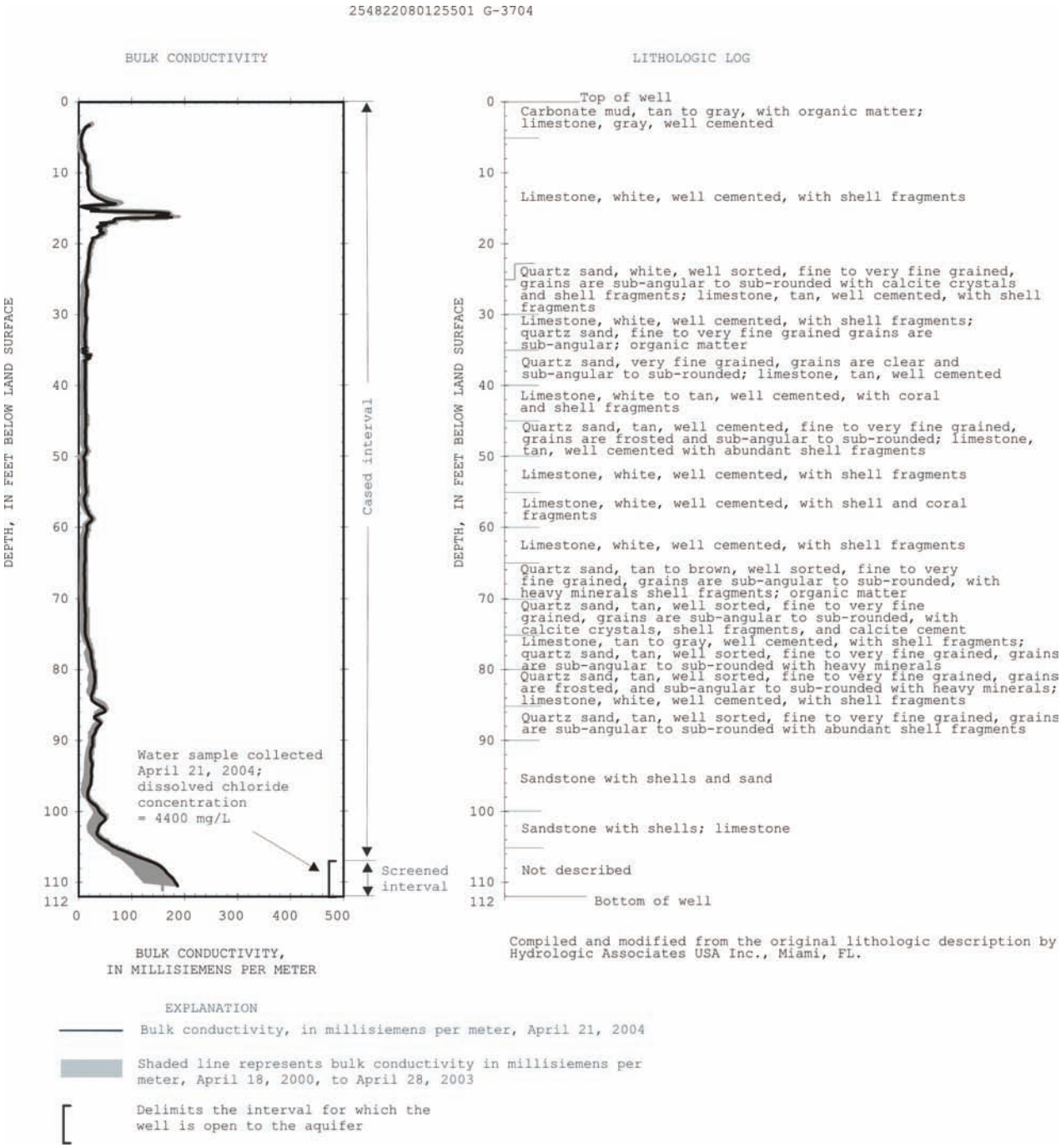
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
24...	0850	2.66	--	--
JAN				
27...	1005	1.75	--	--
APR				
21...	0800	1.86	13,000	4,400
AUG				
04...	0936	3.83	--	--





WELL NUMBER.--254822080125501. Local Number G 3704. USGS Observation Well in Miami, FL-Continued



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254823080163701. Local Number G 3327. USGS Observation Well near Miami Springs, FL.

LOCATION.--Lat 25°48'23", long 80°16'37", in NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.30, T.53 S., R.41 E., Hydrologic Unit 03090202, near the intersection of NW 36th Street and Le Jeune Road, 0.2 mi south of NW 36th Street, 1.3 mi west of Le Jeune Road. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 54 ft, cased to 53 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 9.06 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 6.2 ft above NGVD. See REMARKS.

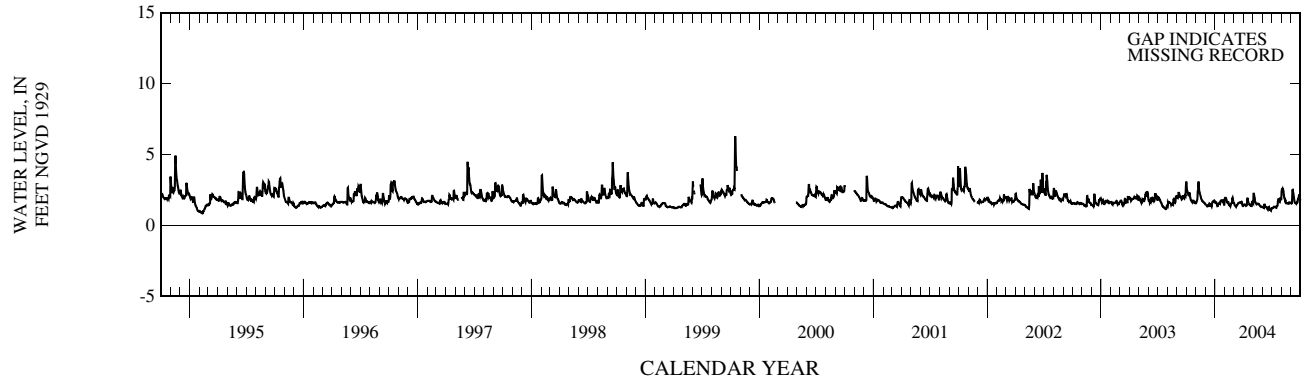
REMARKS.--Because of construction around well, the land surface was lowered during the 2003 water year.

PERIOD OF RECORD.--May 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 6.30 ft NGVD, Oct. 15, 1999; lowest, 0.85 ft NGVD, Feb. 10, 11, 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	2.38	1.85	1.40	1.62	1.94	1.39	1.48	2.12	1.25	1.27	2.52	2.50
10	2.29	2.64	1.44	1.43	1.64	1.39	1.43	1.62	1.34	1.29	1.93	1.90
15	1.81	2.13	1.52	1.61	1.44	1.56	1.77	1.51	1.26	1.25	1.59	1.58
20	1.64	1.76	1.37	1.74	1.48	1.63	1.48	1.52	1.27	1.67	1.57	1.61
25	1.65	1.65	1.68	1.67	1.90	1.64	1.38	1.35	1.13	1.67	1.62	1.98
EOM	1.62	1.53	1.63	1.58	1.62	1.37	1.64	1.32	1.23	1.78	1.60	1.77
MAX	2.98	3.04	1.77	1.78	1.95	1.66	1.90	2.24	1.53	1.92	2.61	2.51



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254823080175201. Local Number G 3465. USGS Observation Well near Virginia Gardens, FL.

LOCATION.--Lat 25°48'23", long 80°17'52", in SE $^1/_4$ NW $^1/_4$ sec.25, T.53 S., R.40 E., Hydrologic Unit 03090202, on the north side of the USDA parking lot on NW 62nd Avenue, 600 ft south of NW 36th Street.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 28.8 ft, cased to 28.8 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of base, 10.36 ft above National Geodetic Vertical Datum of 1929. Prior to January 26, 1998, the measuring point was top of base 10.35 ft NGVD. (Corrected).

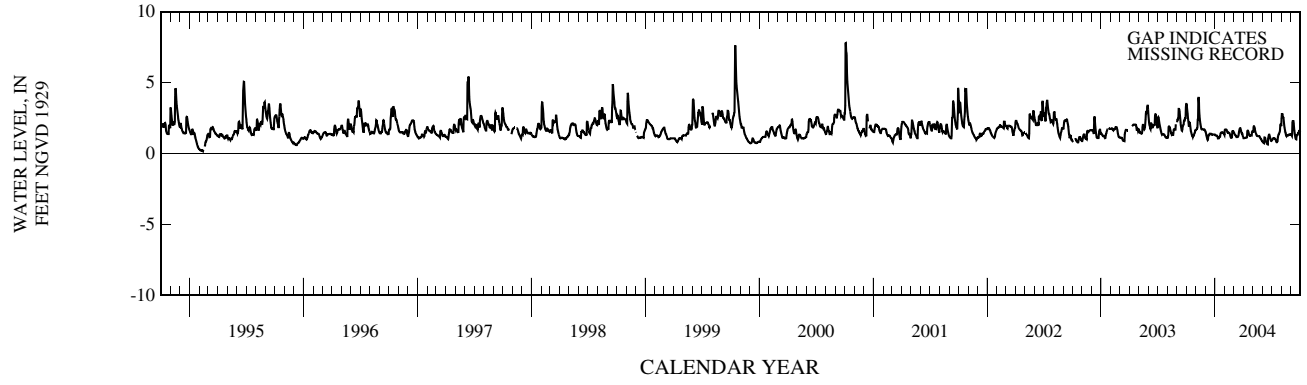
LAND-SURFACE DATUM.--Land surface is approximately 8.2 ft above NGVD. (Corrected).

PERIOD OF RECORD.--January 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.79 ft NGVD, Oct. 4, 2000; lowest, 0.18 ft NGVD, Feb. 12, 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	2.80	1.81	1.20	1.28	1.70	1.30	1.10	1.92	0.74	1.09	2.58	2.20
10	2.19	3.59	1.25	1.08	1.48	1.17	1.12	1.49	1.01	1.08	1.87	1.83
15	1.61	2.08	1.40	1.19	1.45	1.21	1.62	1.24	0.73	0.84	1.35	1.06
20	1.24	1.71	1.36	1.47	1.16	1.74	1.29	1.23	1.15	1.16	1.30	1.31
25	1.27	1.71	1.35	1.47	1.54	1.49	---	1.08	1.15	1.47	1.34	1.45
EOM	1.66	1.60	1.35	1.32	1.54	1.15	1.56	0.88	0.94	1.93	1.37	1.53
MAX	3.50	3.93	1.56	1.50	1.70	1.78	---	1.92	1.33	2.06	2.79	2.29



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254830080284201. Local Number G 1488. USGS Observation Well near Miami, FL.

LOCATION.--Lat 25°49'07", long 80°28'57", in SW ¼ SW ¼ SW ¼ sec.30, T.53 S., R.39 E., Hydrologic Unit 03090202, 20 ft east of State Road 997 (Krome Avenue), 4 mi north of U.S. Highway 41, and 13.0 mi west of Miami.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

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

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 9.98 ft above National Geodetic Vertical Datum of 1929. Prior to January 3, 2001, the top of base was 9.93 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 7.4 ft above NGVD.

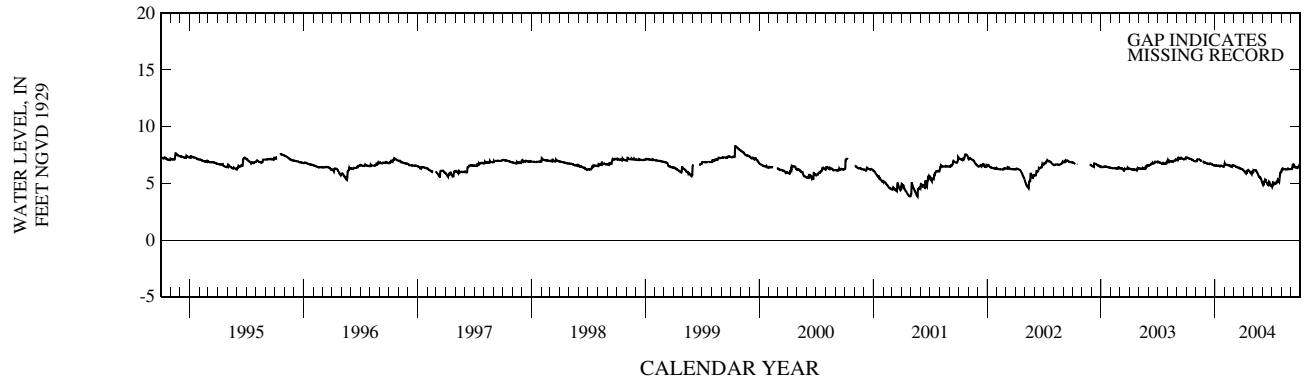
REMARKS.--Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey. Station reconstructed January 3, 2001.

PERIOD OF RECORD.--May 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.33 ft NGVD, Oct. 15, 1999; lowest, 2.74 ft NGVD, May 23, 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	7.24	7.11	6.76	6.55	6.64	6.53	6.01	6.17	4.93	5.06	6.27	6.47
10	7.18	7.12	6.72	6.55	6.61	6.43	5.96	6.16	5.38	4.92	6.25	6.57
15	7.15	7.02	6.73	6.51	6.58	6.39	6.16	5.92	5.02	5.02	6.23	6.42
20	7.06	6.96	6.70	6.56	6.48	6.29	6.07	5.63	4.82	5.34	6.22	6.34
25	6.98	6.90	6.62	6.49	6.60	6.25	5.88	5.50	4.93	5.34	6.26	6.43
EOM	6.96	6.84	6.56	6.61	6.56	6.18	6.01	5.07	4.86	5.97	6.25	6.64
MAX	7.28	---	6.83	6.61	6.78	6.55	6.17	6.17	5.38	5.98	6.29	6.73



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254832080175001. Local Number S 19. USGS Observation Well in Virginia Gardens, FL.

LOCATION.--Lat 25°48'32", long 80°17'50", in NW$^1/_4$ NE$^1/_4$ sec.25, T.53 S., R.40 E., Hydrologic Unit 03090202, at intersection of NW 62nd Avenue and NW 39th Street.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 95 ft, cased to 91 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 8.44 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 6.9 ft above NGVD. (Corrected).

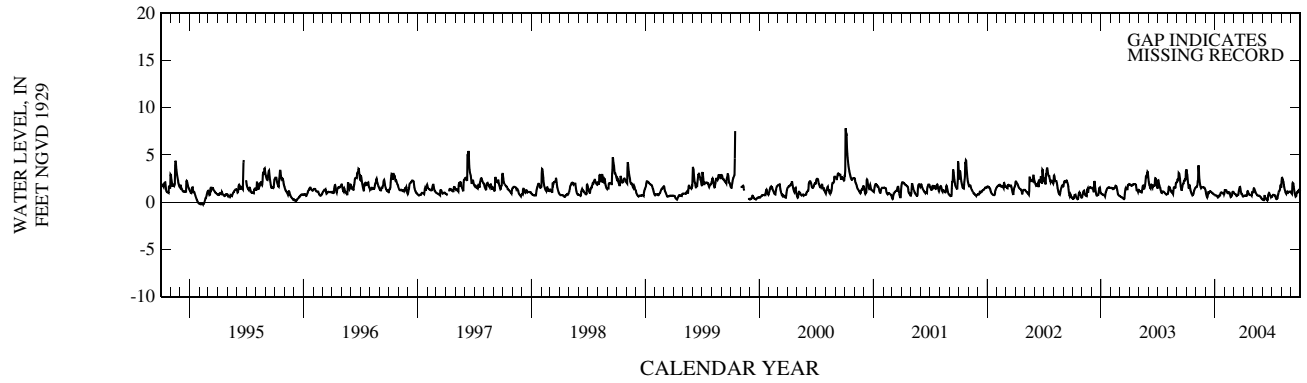
REMARKS.--Water levels affected by pumping. Records of water levels prior to January 1957 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--January 1939 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.74 ft NGVD, Oct. 3, 4, 2000; lowest, 1.44 ft below NGVD, June 18-21, 1945.

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	2.48	1.78	0.67	0.72	1.28	0.85	0.69	1.45	0.23	0.78	2.23	1.95
10	1.74	3.23	1.07	0.49	1.01	0.67	0.66	1.04	0.50	0.71	1.48	1.37
15	1.14	1.70	1.16	0.71	1.03	0.77	1.15	0.73	0.25	0.34	0.94	0.59
20	0.73	1.60	1.06	1.03	0.57	1.57	0.79	0.70	0.80	0.70	1.09	1.03
25	1.11	1.57	0.90	0.93	0.99	0.89	0.75	0.55	0.75	1.22	1.11	1.15
EOM	1.55	1.37	0.75	0.91	1.07	0.59	1.09	0.31	0.63	1.54	1.07	1.17
MAX	3.40	3.82	1.33	1.03	1.29	1.59	1.17	1.46	0.98	1.78	2.57	2.05



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254833080155801. Local Number G 1354. USGS Observation Well in Miami Springs, FL.

LOCATION.--Lat 25°48'33", long 80°15'58", SW ¼ SE ¼ SE ¼ sec.20, T.53 S., R.41 E., Hydrologic Unit 03090202, on west side of Coolidge Drive, 400 ft south of South Royal Poinciana Boulevard, in concrete meter box in line with the fourth bank teller driveway from the north.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 104 ft, cased to 91 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 6.61 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 6.6 ft above NGVD.

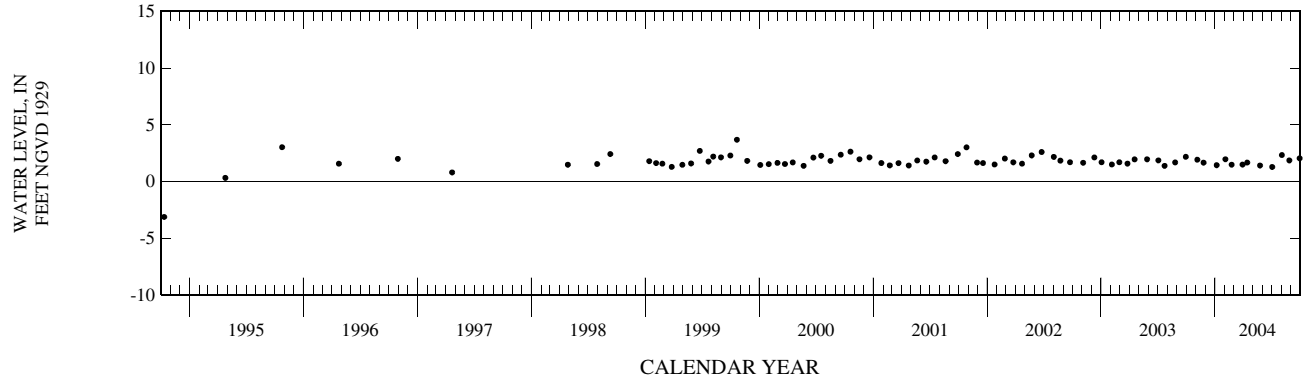
REMARKS.--Well also used for salinity monitoring. Because of an error on site maps, G-1354 was confused with another well. As a result, the figures of water level as elevation, in feet NGVD, and water-quality data from October 1994 to September 1997 are in error. Corrected data are in files of the U.S. Geological Survey.

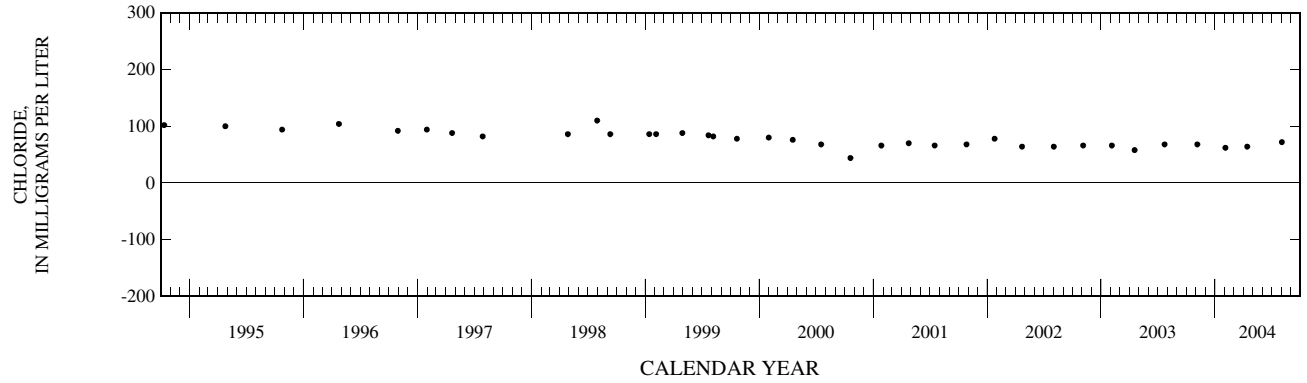
PERIOD OF RECORD.--May 1976 to July 1997 (semiannual), April 1998 to current year. See REMARKS.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.69 ft NGVD, Oct. 21, 1999; lowest, 3.11 ft below NGVD, Oct. 11, 1994.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
NOV				
05...	0842	1.93	581	68.0
25...	0845	1.67	--	--
JAN				
06...	0935	1.45	--	--
FEB				
03...	0903	1.97	576	62.0
23...	0910	1.49	--	--
MAR				
29...	1101	1.50	--	--
APR				
13...	0955	1.68	540	64.0
MAY				
24...	0825	1.42	--	--
JUL				
02...	1005	1.29	--	--
AUG				
02...	0850	2.34	561	72.0
26...	0920	1.87	--	--
SEP				
28...	0911	2.05	--	--





MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254834080171601. Local Number G 3466. USGS Observation Well in Miami Springs, FL.

LOCATION.--Lat 25°48'34", long 80°17'16", in SW ¼ SW ¼ sec.19, T.53 S., R.41 E., Hydrologic Unit 03090202, located 0.25 mi north of Fairway Drive on the east side of Eldron Drive, on the north side of the parking lot at Miami Springs Golf Course.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 19.5 ft, cased to 19.5 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of shelf, 10.64 ft above National Geodetic Vertical Datum of 1929. Prior to July 2002, measuring point was 10.63 ft above NGVD.

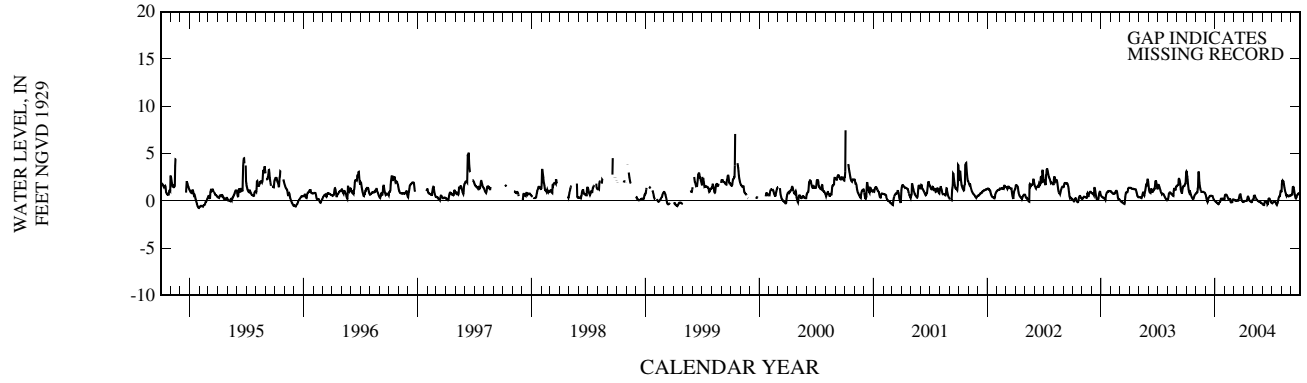
LAND-SURFACE DATUM.--Land surface is approximately 8.3 ft above NGVD.

PERIOD OF RECORD.--January 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.46 ft NGVD, Oct. 3, 2000; lowest, 0.74 ft below NGVD, Jan. 30, 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	2.25	0.91	0.16	-0.15	0.65	0.04	-0.04	0.56	-0.44	-0.13	2.08	1.03
10	0.91	2.84	0.21	-0.30	0.41	0.04	0.00	0.35	-0.08	-0.07	1.41	1.17
15	0.70	1.25	0.50	-0.15	0.11	0.02	0.45	0.07	-0.13	-0.32	0.75	0.29
20	0.27	0.96	0.54	0.24	-0.09	0.66	0.08	-0.06	0.20	-0.12	0.61	0.63
25	0.32	0.93	0.40	0.22	-0.13	0.19	-0.09	-0.17	0.12	0.47	0.51	0.77
EOM	0.77	0.78	0.00	0.19	0.15	-0.12	0.11	-0.31	-0.22	0.99	0.57	0.77
MAX	3.11	3.10	0.73	0.24	0.65	0.70	0.45	0.56	0.26	1.05	2.17	1.47



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254839080162301. Local Number G 3467. USGS Observation Well in Miami Springs, FL.

LOCATION.--Lat 25°48'39", long 80°16'23", in SW ¼ SW ¼ sec.20, T.53 S., R.41 E., Hydrologic Unit 03090202, at East Drive Park, 0.10 mi south of Labaron Drive on East Drive. Located on east side of street next to the parking lot.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 27.5 ft, cased to 27.5 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of shelf, 7.07 ft above National Geodetic Vertical Datum of 1929. Prior to March 2002, measuring point was 5.99 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 4.3 ft above NGVD.

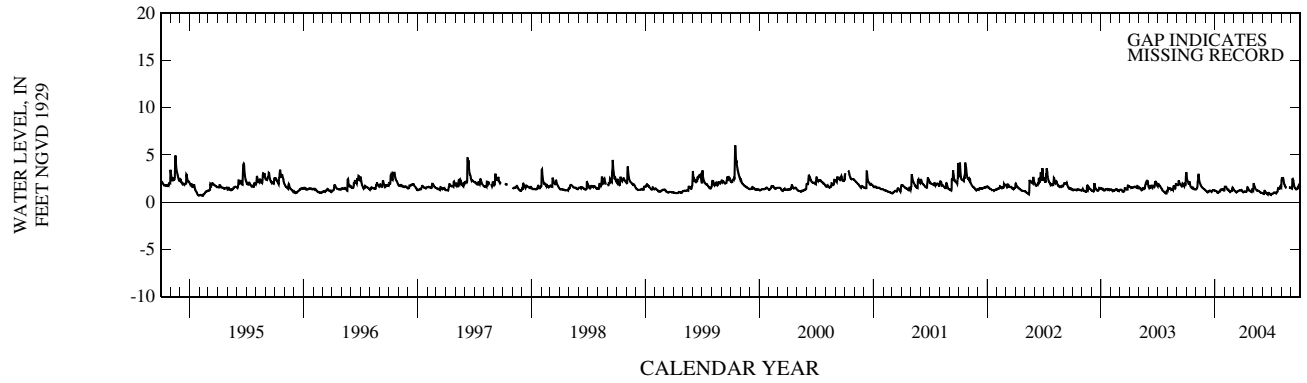
REMARKS.--The well was reconstructed March 26, 2002.

PERIOD OF RECORD.--January 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 5.95 ft NGVD, Oct. 15, 16, 1999; lowest, 0.68 ft NGVD, Feb. 11, 12, 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	2.28	1.57	1.12	1.17	1.64	1.16	1.14	1.82	0.87	0.95	2.51	2.44
10	2.14	2.55	1.12	1.02	1.36	1.09	1.11	1.40	1.06	0.98	1.89	1.81
15	1.62	1.91	1.23	1.14	1.19	1.17	1.52	1.21	0.92	0.91	1.51	1.42
20	1.44	1.58	1.13	1.33	1.14	1.28	1.21	1.19	0.99	1.38	---	1.39
25	1.41	1.43	1.26	1.32	1.47	1.22	1.10	1.03	0.84	1.41	1.57	1.69
EOM	1.38	1.27	1.26	1.31	1.34	1.05	1.35	0.96	0.88	1.61	1.50	1.60
MAX	3.05	2.91	1.28	1.37	1.64	1.32	1.58	1.93	1.21	1.71	---	2.46



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254841080164401. Local Number G 571. USGS Observation Well in Miami Springs, FL.

LOCATION.--Lat 25°48'41", long 80°16'44", in SE ¼ NW ¼ SE ¼ sec.19, T.53 S., R.41 E., Hydrologic Unit 03090202, at northeast corner of intersection of Labaron and Ponce De Leon Drive, 60 ft north of Labaron Drive and 20 ft east of Ponce De Leon Drive.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2.5 in., depth 94.5 ft, cased to 94.5 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 6.00 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 6.0 ft above NGVD.

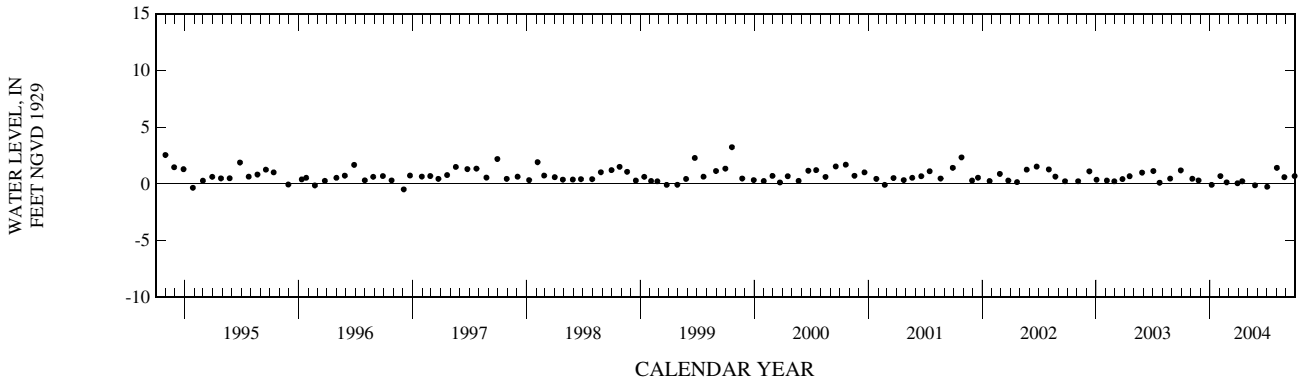
REMARKS.--Well also used for salinity monitoring.

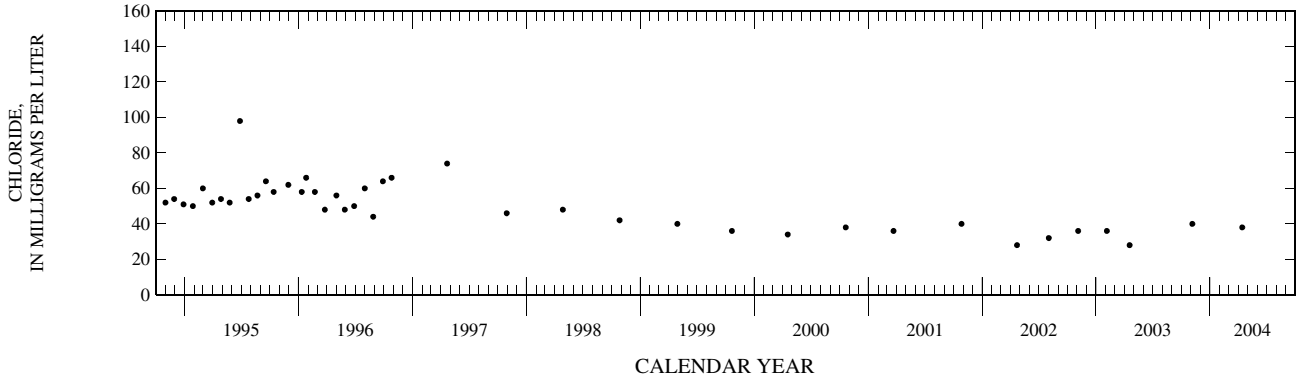
PERIOD OF RECORD.--October 1975 to September 1990 (intermittent), October 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.24 ft NGVD, Oct. 21, 1999; lowest, 1.00 ft below NGVD, May 16, 1983.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
NOV				
05...	0805	.46	495	40.0
25...	0810	.31	--	--
JAN				
06...	0920	-.08	--	--
FEB				
03...	0840	.69	--	--
23...	0854	.14	--	--
MAR				
29...	1047	.06	--	--
APR				
13...	0904	.24	439	38.0
MAY				
24...	0810	-.12	--	--
JUL				
02...	0952	-.25	--	--
AUG				
02...	0834	1.42	--	--
26...	0905	.60	--	--
SEP				
28...	0852	.70	--	--





MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254855080163701. Local Number G 548. USGS Observation Well in Miami Springs, FL.

LOCATION.--Lat 25°48'55", long 80°16'37", in NE $^1/_4$ SE $^1/_4$ SW $^1/_4$ sec.19, T.53 S., R.41 E., Hydrologic Unit 03090202, at the northwest corner of intersection of Pinecrest Drive and La Villa Drive, 58 ft west of center of La Villa Drive and 30 ft north of center of Pinecrest Drive.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 97.3 ft, cased to 91.4 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 6.35 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 6.4 ft above NGVD.

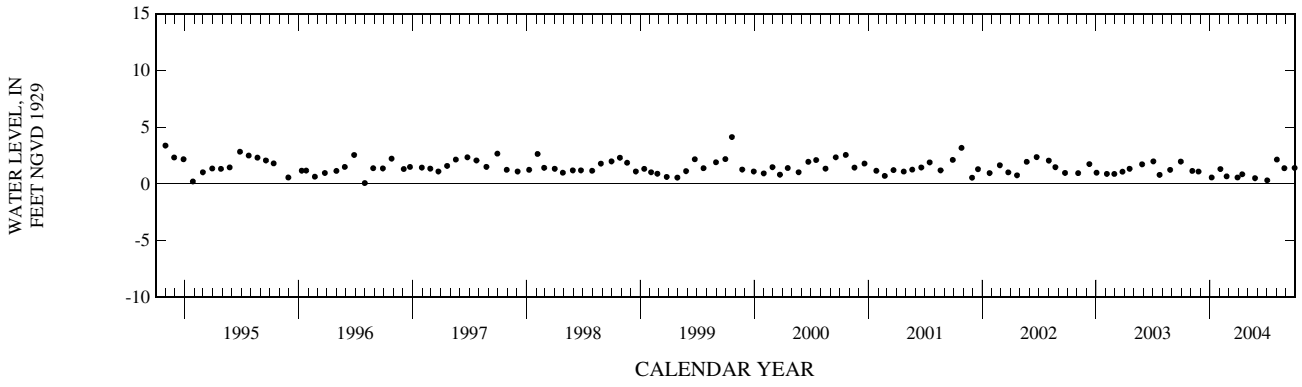
REMARKS.--Well also used for salinity monitoring.

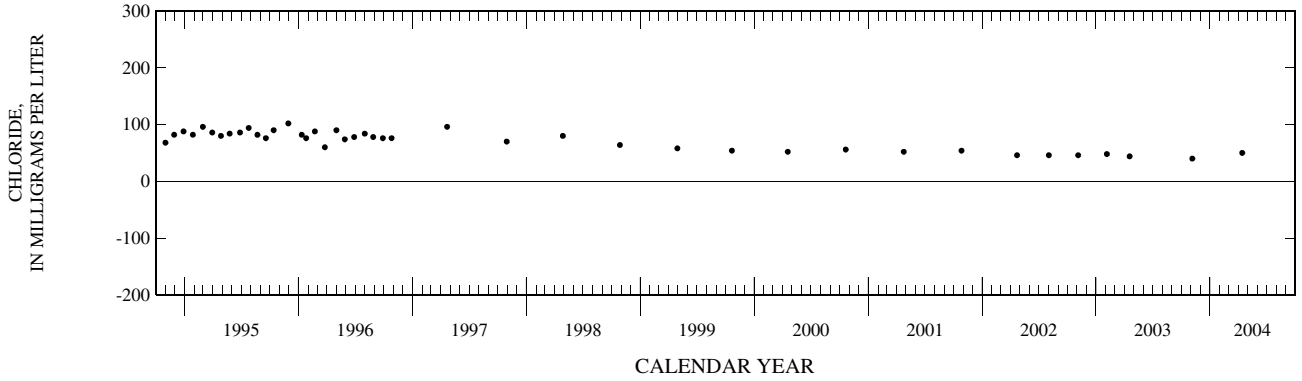
PERIOD OF RECORD.--October 1975 to September 1990 (intermittent), October 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.13 ft NGVD, Oct. 21, 1999; lowest, 0.08 ft below NGVD, July 27, 1994.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
NOV				
05...	0824	1.15	514	40.0
25...	0825	1.09	--	--
JAN				
06...	0926	.57	--	--
FEB				
03...	0856	1.31	--	--
23...	0902	.67	--	--
MAR				
29...	1055	.57	--	--
APR				
13...	0931	.85	470	50.0
MAY				
24...	0816	.51	--	--
JUL				
02...	0956	.32	--	--
AUG				
02...	0839	2.15	--	--
26...	0911	1.39	--	--
SEP				
28...	0859	1.41	--	--





MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254857080171101. Local Number S 68. USGS Observation Well in Miami Springs, FL.

LOCATION.--Lat 25°48'57", long 80°17'11", in NW $^1/_4$ SW $^1/_4$ sec.19, T.53 S., R.41 E., Hydrologic Unit 03090202, in center median of Curtis Parkway, 75 ft northeast of Deer Run.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 61 ft, cased to 51 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of recorder shelf, 9.68 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 6.2 ft above NGVD. (Corrected).

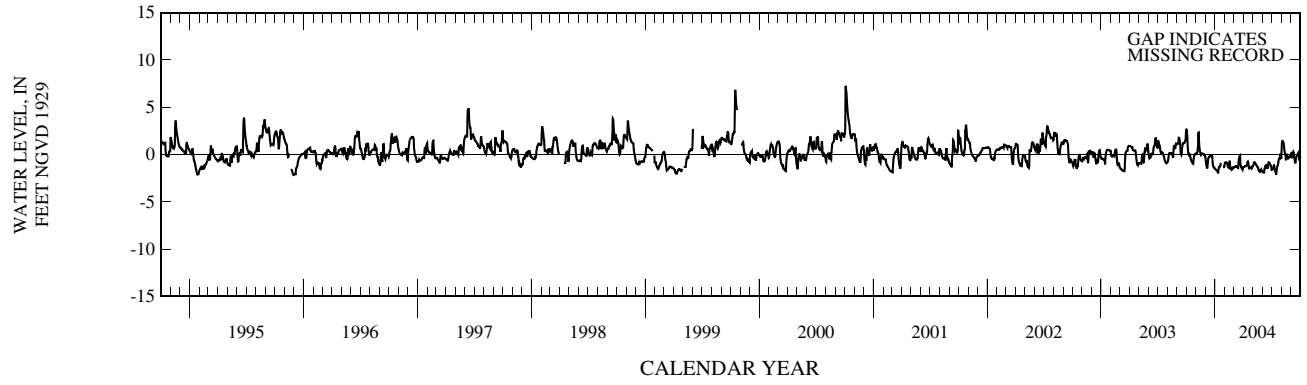
REMARKS.--Water levels affected by pumping. Records of water levels prior to January 1957 are available in the files of the U.S. Geological Survey.

PERIOD OF RECORD.--January 1940 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.18 ft NGVD, Oct. 3, 4, 2000; lowest, 4.39 ft below NGVD, May 5, 1981.

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	1.03	0.25	-1.27	-1.66	-0.83	-1.29	-1.26	-0.81	-1.86	-1.44	1.13	-0.01
10	0.02	1.61	-0.40	-1.89	-1.12	-1.31	-1.21	-0.98	-1.18	-1.59	0.41	-0.11
15	-0.49	0.17	-0.14	-1.29	-1.19	-1.40	-0.71	-1.27	-1.15	-2.13	-0.61	-0.68
20	-0.89	0.11	-0.15	-0.89	-1.46	-0.11	-1.35	-1.69	-0.84	-1.10	-0.34	-0.07
25	-0.24	0.03	-1.09	---	-1.50	-1.40	-1.40	-1.65	-1.00	-0.37	-0.23	-0.10
EOM	0.05	-0.20	-1.47	-1.26	-1.37	-1.33	-1.20	-1.80	-1.60	-0.43	0.10	-0.29
MAX	2.64	2.33	-0.11	---	-0.66	-0.08	-0.71	-0.81	-0.82	0.11	1.42	0.26



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254917080143301. Local Number G 3564. USGS Observation Well near Miami, FL.

LOCATION.--Lat 25°49'17", long 80°14'33", in SE ¼ NE ¼ NE ¼ sec.21, T.53 S., R.41 E., Hydrologic Unit 03090202, in Metrorail station parking lot at NW 52nd Street and NW 29th Avenue.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 5 in., depth 18.8 ft, cased to 13.8 ft, open hole 13.8 to 18.8 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 12.90 ft above National Geodetic Vertical Datum of 1929.

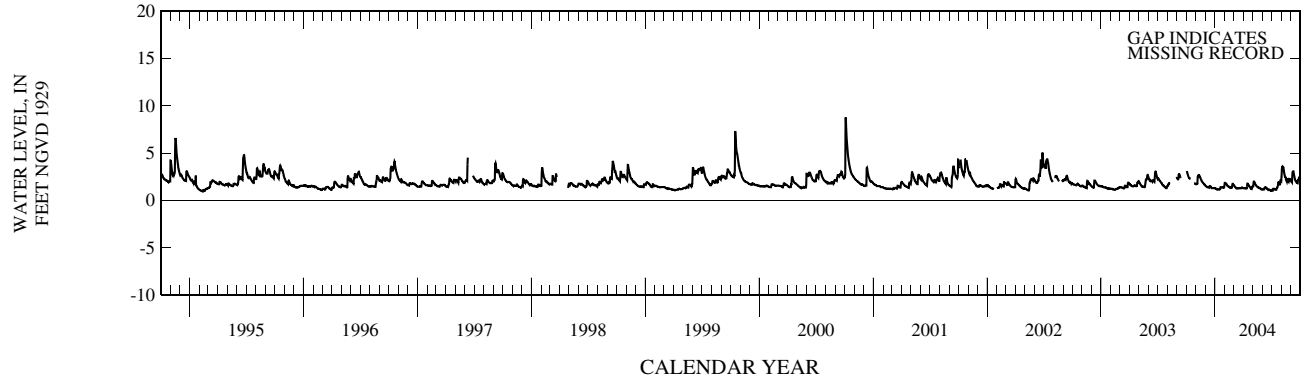
LAND-SURFACE DATUM.--Land surface is approximately 10.2 ft above NGVD.

PERIOD OF RECORD.--September 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.71 ft NGVD, Oct. 3, 4, 2000; lowest, 0.96 ft NGVD, Feb. 11, 12, 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	2.81	1.79	1.47	1.22	1.78	1.43	1.30	2.00	1.18	1.24	3.53	2.91
10	2.37	2.70	1.41	1.16	1.54	1.30	1.29	1.67	1.41	1.23	2.77	2.69
15	---	2.40	1.51	1.20	1.41	1.31	1.77	1.45	1.26	1.15	2.30	2.08
20	---	2.01	1.36	1.42	1.34	1.30	1.50	1.38	1.16	1.54	2.21	1.85
25	---	1.79	1.31	1.37	1.64	1.35	1.25	1.26	1.09	1.80	2.29	2.22
EOM	1.73	1.58	1.31	1.59	1.64	1.32	1.47	1.18	1.07	2.10	2.10	2.28
MAX	---	2.70	1.57	1.59	1.87	1.61	1.79	2.00	1.41	2.16	3.61	3.08



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254940080172001. Local Number G 1282. USGS Observation Well near Miami Springs, FL.

LOCATION.--Lat 25°49'40", long 80°17'20", SW ¼ NW ¼ SW ¼ sec.18, T.53 S., R.41 E., Hydrologic Unit 03090202, 100 ft south of Miami Canal, in green meter box 13 ft northeast of the guard rail on the northern side of North Royal Poinciana Boulevard, across from Rio Vista Drive.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 84 ft, cased to 56.8 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 6.30 ft above National Geodetic Vertical Datum of 1929. Prior to March 24, 1997 measuring point was 10.20 ft above NGVD. From September 1990 to September 1996, measuring point was incorrectly considered to be 9.31 ft above NGVD (measuring point of G-1283). See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 6.3 ft above NGVD.

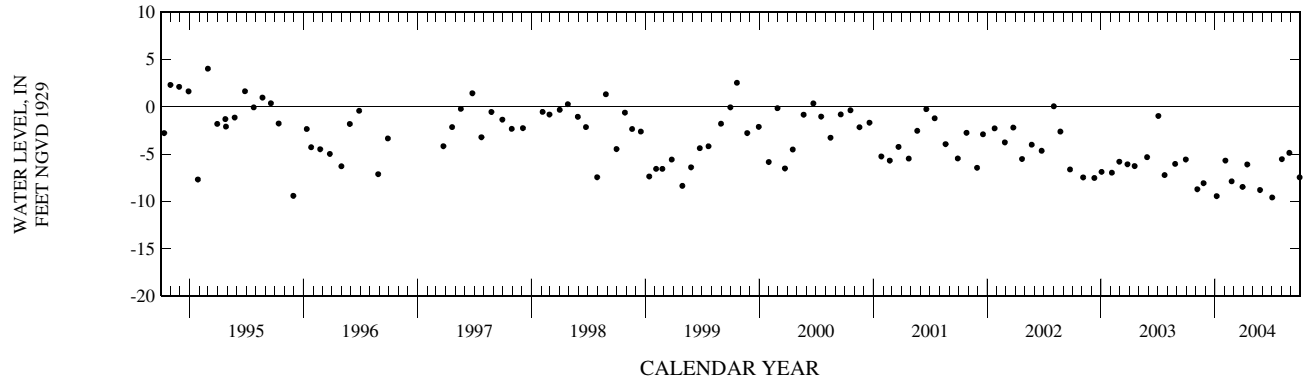
REMARKS.--Data collected at this site was published under well ID 254940080172002 (G-1283) from September 1990 to September 1996. The published figures of water level as elevation, in feet NGVD, for this period, are in error. Corrected figures are in the files of the U.S. Geological Survey. See DATUM. The well was originally open to the aquifer from 56.8 to 84 ft. The cased interval is collapsed or obstructed at a depth of 48.1 ft. The well remains in communication with the aquifer.

PERIOD OF RECORD.--January 1966 to June 1984 (daily), October 1984 to May 1985 (semiannual), September 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 4.55 ft NGVD, Sept. 12, 1971 and May 29, 1984; lowest, 13.31 ft below NGVD, May 10, 1983.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Date	Time	Elevation, feet above NGVD (72020)
NOV			MAY		
05...	0755	-8.70	24...	0801	-8.78
25...	0758	-8.06	JUL		
JAN			02...	0940	-9.57
06...	0908	-9.43	AUG		
FEB			02...	0822	-5.52
03...	0822	-5.67	26...	0855	-4.85
23...	0838	-7.86	SEP		
MAR			28...	0840	-7.44
29...	1040	-8.45			
APR					
13...	0853	-6.08			



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254943080121501. Local Number F 45. USGS Observation Well in Miami, FL.

LOCATION.--Lat 25°49'43", long 80°12'15", in NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.13, T.53 S., R.41 E., Hydrologic Unit 03090202, at corner of NW 58th Street and NW 5th Avenue in Miami, 1.3 mi west of U.S. Highway 1.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 5 in., depth 84.9 ft. (Corrected).

REVISED RECORDS.--WDR FL-85-2B:1984.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 12.24 ft above National Geodetic Vertical Datum of 1929. Prior to August 4, 2000, measuring point was top of base 11.97 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 9.8 ft above NGVD. (Corrected).

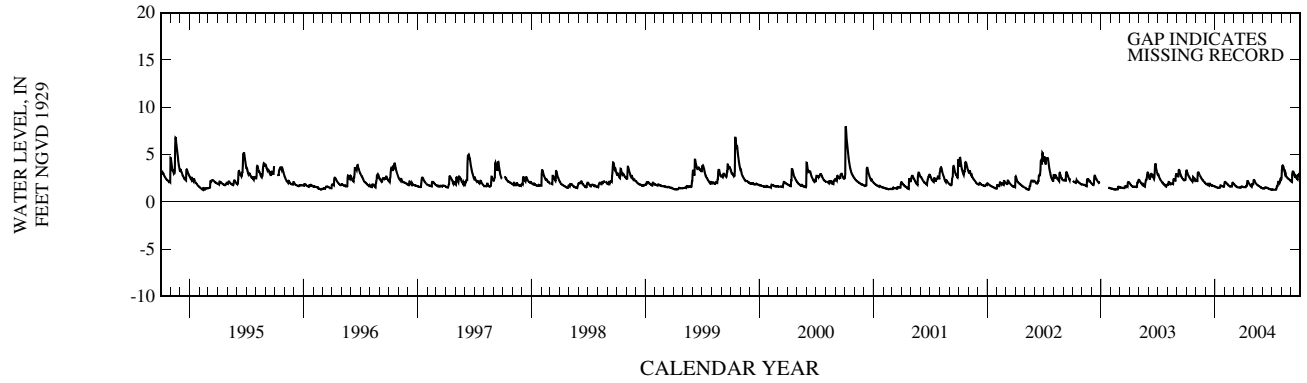
REMARKS.--The station was reconstructed August 4, 2000. Well is also used for salinity monitoring. Records of water levels prior to October 1973 are available in the files of the U.S. Geological Survey.

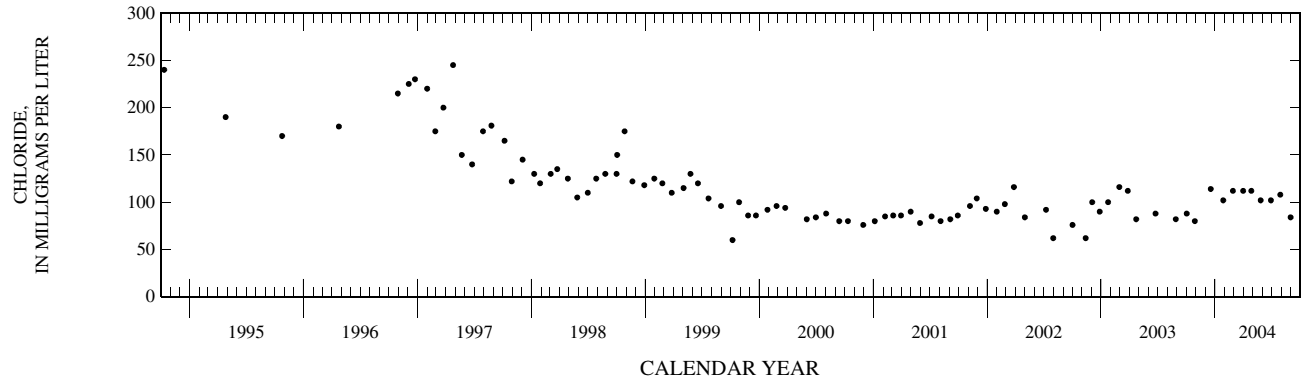
PERIOD OF RECORD.--September 1939 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 9.10 ft NGVD, Sept. 10, 24, 1960; lowest, 1.10 ft NGVD, Apr. 14, 15, 1979.

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	3.02	2.20	1.87	1.55	2.02	1.73	1.55	2.31	1.40	1.29	3.83	3.09
10	2.64	3.03	1.87	1.50	1.84	1.61	1.67	2.00	1.54	1.29	3.24	3.00
15	2.35	2.70	1.92	1.49	1.69	1.53	2.19	1.80	1.49	1.33	2.79	2.79
20	2.15	2.40	1.75	1.71	1.62	1.52	1.90	1.68	1.41	1.88	2.53	2.40
25	2.44	2.18	1.70	1.64	1.97	1.60	1.66	1.57	1.34	2.03	2.40	2.85
EOM	2.32	2.02	1.63	1.94	1.93	1.58	1.85	1.45	1.30	2.42	2.20	3.28
MAX	3.31	3.11	1.98	1.94	2.11	1.88	2.20	2.31	1.54	2.47	3.84	3.28





MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254946080172601. Local Number G 3250. USGS Observation Well in Miami Springs, FL.

LOCATION.--Lat 25°49'46", long 80°17'26", in NE ¼ SE ¼ SE ¼ sec.13, T.53 S., R.40 E., Hydrologic Unit 03090202, approximately 20 ft west of the intersection of Dove Avenue and North Royal Poinciana Boulevard and 3 ft east of Miami Canal.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 116 ft, cased to 106 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 5.73 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 5.7 ft above NGVD.

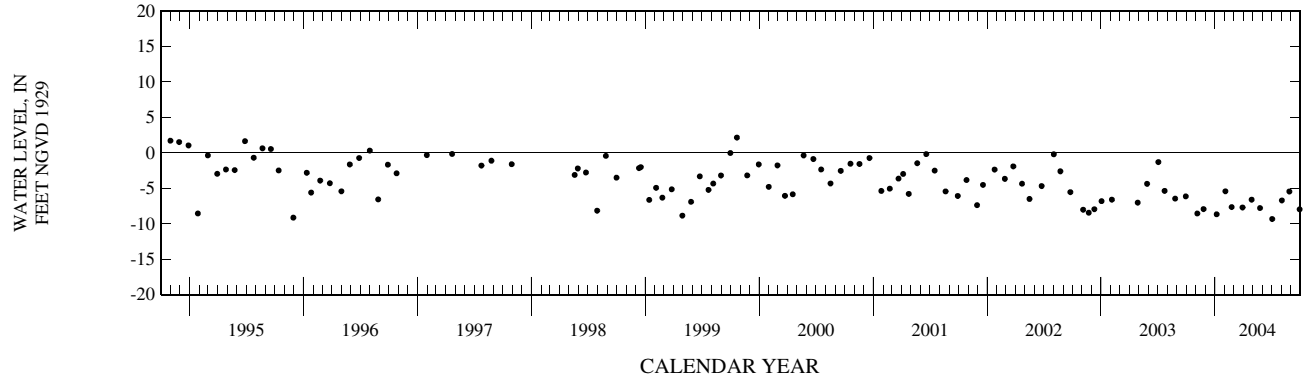
REMARKS.--Well also used for salinity monitoring, including an annual induction log. Induction logs are used to assess movement of the fresh-water/salt-water interface in ground water. A calibration error was found to have affected some of the historical bulk conductivity logs. Bulk conductivity logs prior to the 2002 water year had been (with the exception of 1998) calibrated to a standard of 1,301 mS/m. For these calibrations an internal setting limited the probe response to 1,000 mS/m. Data for the affected years was corrected by applying a 0.7686 multiplier. See EXPLANATION OF THE RECORDS SECTION, RECORDS OF BULK CONDUCTIVITY in the front of this book.

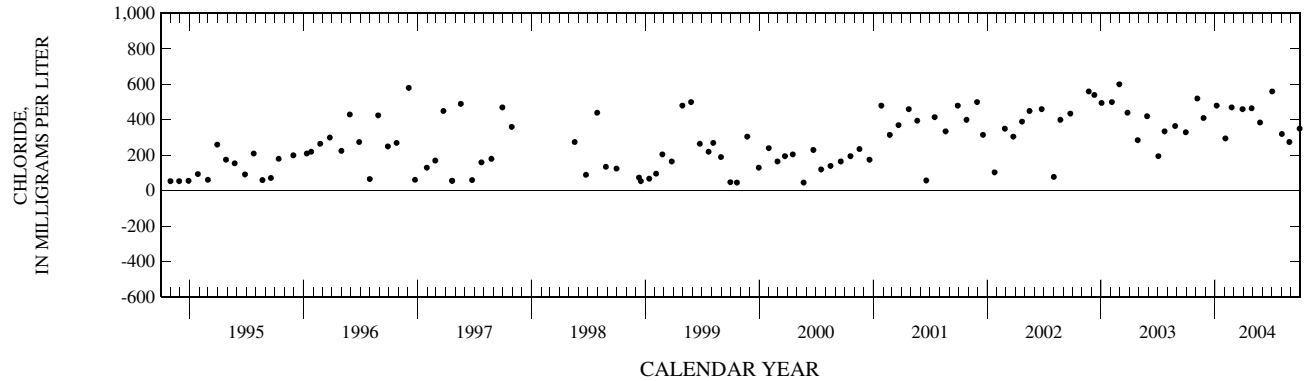
PERIOD OF RECORD.--August 1981 to September 1994 (intermittent), October 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.16 ft NGVD, Oct. 21, 1999; lowest, 9.32 ft below NGVD, July 02, 2004.

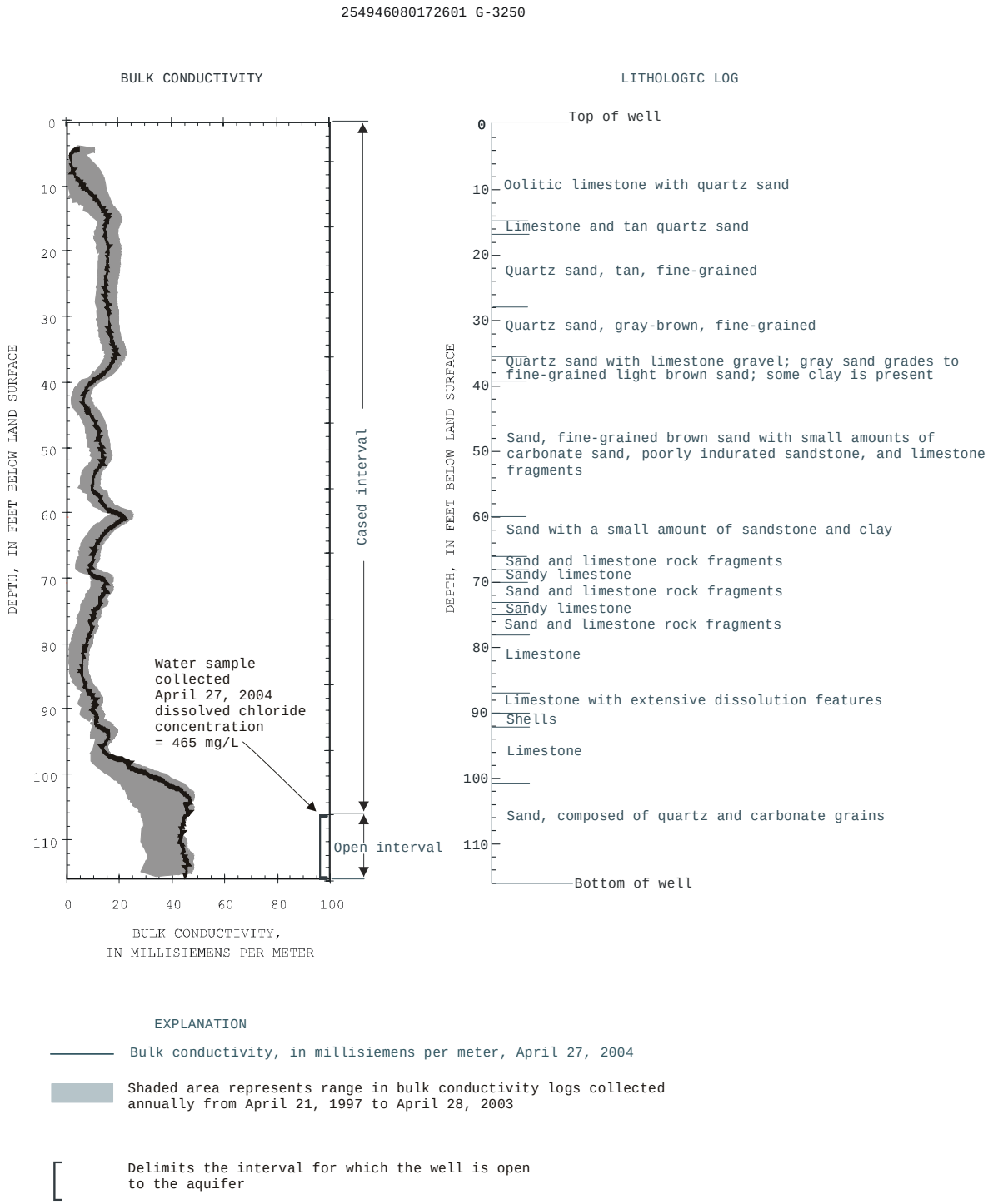
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
NOV				
05...	0730	-8.54	2,130	520
25...	0737	-7.92	1,870	410
JAN				
06...	0802	-8.65	2,100	480
FEB				
03...	0745	-5.41	1,380	295
23...	0812	-7.63	1,820	470
MAR				
29...	1016	-7.69	1,830	460
APR				
27...	0903	-6.59	1,990	465
MAY				
24...	0730	-7.77	1,670	385
JUL				
02...	0743	-9.32	2,270	560
AUG				
02...	0806	-6.70	1,480	320
26...	0815	-5.44	1,380	275
SEP				
28...	0812	-7.95	1,660	350





WELL NUMBER.--254946080172601. Local Number G 3250. USGS Observation Well in Miami Springs, FL.-Continued



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254950080171202. Local Number G 1368A. USGS Observation Well in Hialeah, FL.

LOCATION.--Lat 25°49'50", long 80°17'12", in SW $^1/_4$ NW $^1/_4$ sec.18, T.53 S., R.41 E., Hydrologic Unit 03090202, near West 2nd Avenue, 0.3 mi east of Red Road.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 39 ft, cased to 38.4 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 11.49 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 8.8 ft above NGVD. (Corrected).

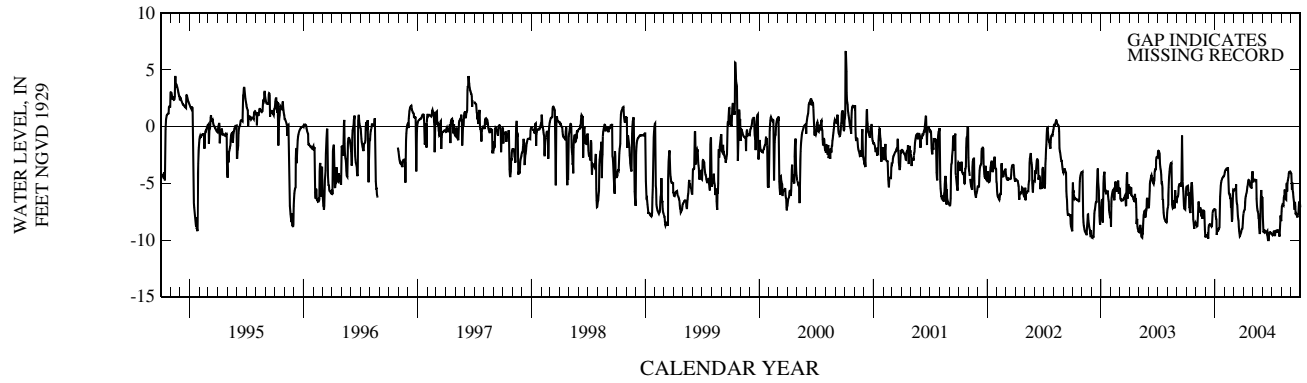
REMARKS.--Water levels affected by pumping.

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

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 6.75 ft NGVD, Oct. 9, 1991; lowest, 14.01 ft below NGVD, Apr. 28, 29, 1981.

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	-5.24	-8.77	-9.60	-8.16	-3.76	-5.53	-7.33	-4.68	-9.28	-9.45	-6.91	-5.13
10	-7.09	-7.05	-9.88	-9.15	-3.67	-6.57	-5.95	-4.78	-9.21	-9.51	-6.12	-6.69
15	-6.17	-7.19	-8.61	-8.91	-5.93	-8.13	-5.01	-7.21	-9.25	-9.34	-6.42	-7.74
20	-5.81	-7.96	-8.76	-4.96	-6.34	-9.66	-4.78	-8.10	-9.74	-9.15	-5.00	-7.93
25	-8.72	-7.40	-7.47	-4.51	-8.12	-9.19	-5.37	-8.14	-9.34	-9.70	-4.01	-7.24
EOM	-8.61	-9.58	-7.30	-4.27	-5.69	-7.93	-3.94	-6.27	-9.47	-8.34	-4.11	-7.12
MAX	-4.91	-6.60	-7.30	-4.27	-3.59	-5.10	-3.94	-4.45	-6.28	-7.84	-3.98	-4.14



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254950080180801. Local Number G 3. USGS Observation Well in Miami Springs, FL.

LOCATION.--Lat 25°49'50", long 80°18'08", in SW $^1/_4$ NW $^1/_4$ SE $^1/_4$ sec.13, T.53 S., R.40 E., Hydrologic Unit 03090202, at northwest corner of Hammond Drive and Ibis Avenue.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

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

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 8.20 ft above National Geodetic Vertical Datum of 1929. From January 25, 1983 to October 30, 1987, measuring point was 6.67 ft NGVD. Prior to January 25, 1983, measuring point was 6.30 ft NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 6.2 ft above NGVD. (Corrected).

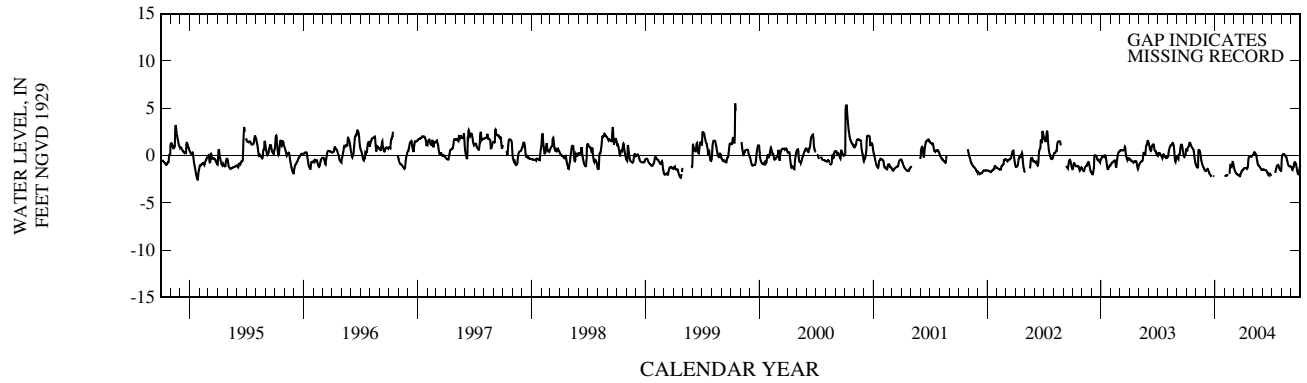
REMARKS.--Water levels affected by pumping. Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey. The well was originally open to the aquifer from 6 to 20 ft. The well has collapsed or become obstructed at a depth of 8.5 ft. Attempts to clear the obstruction have failed; however, water-level data for water-level elevations above -2.24 ft NGVD are unaffected by the obstruction. (Corrected).

PERIOD OF RECORD.--February 1940 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.68 ft NGVD, Oct. 11, 1947; lowest, 3.77 ft below NGVD, Apr. 14, 1978.

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	0.75	-1.27	-1.54	---	-2.10	-1.66	-1.32	0.33	-1.46	---	0.06	-1.51
10	1.29	0.60	-1.52	---	-2.09	-1.91	-1.31	0.19	-1.52	---	0.09	-0.91
15	1.17	0.10	-1.99	---	---	-2.05	-1.13	-0.59	-1.71	-1.40	-0.13	-0.81
20	0.78	-0.81	-2.21	---	-1.01	-2.17	-0.12	-1.06	-2.05	-1.02	-0.67	-1.62
25	0.42	-1.27	---	---	-0.89	-1.77	-0.08	-1.31	-1.90	-1.38	-1.13	-1.98
EOM	-0.94	-1.59	---	---	-1.03	-1.50	0.05	-1.50	---	-1.58	-1.17	-1.00
MAX	1.36	0.60	---	---	---	-1.19	0.05	0.34	---	---	0.16	-0.70



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--254951080194901. Local Number G 3566. USGS Observation Well near Medley, FL.

LOCATION.--Lat 25°49'51", long 80°19'49", in NE ¼ NE ¼ SW ¼ sec.15, T.53 S., R.40 E., Hydrologic Unit 03090202, 15 ft west of NW 82nd Avenue and 403 ft north of NW 62nd Street. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 5 in., depth 18 ft, cased to 13.2 ft, open hole 13.2 to 18 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 9.92 ft above National Geodetic Vertical Datum of 1929. Prior to January 8, 1998, measuring point was 9.90 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 6.9 ft above NGVD.

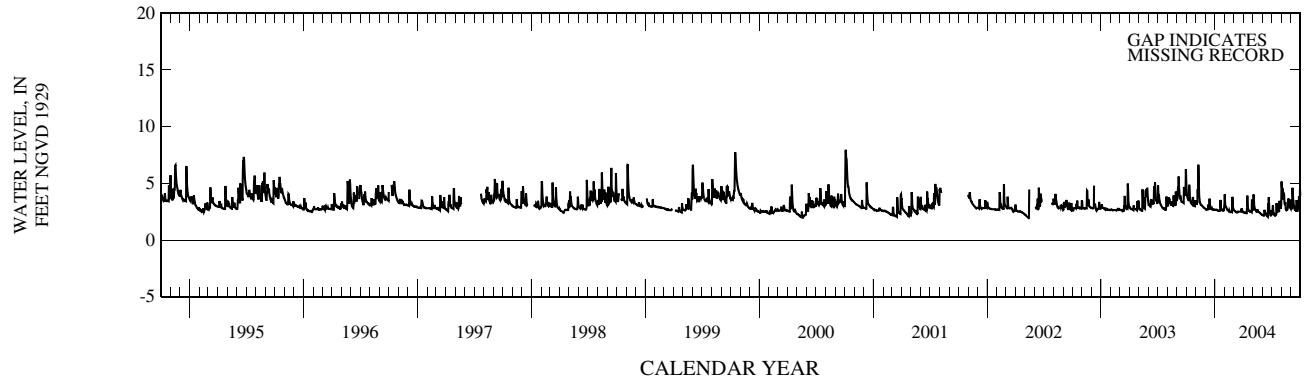
REMARKS.--Station reconstructed January 8, 1998.

PERIOD OF RECORD.--September 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.87 ft NGVD, Oct. 4, 2000; lowest, 1.93 ft NGVD, May 13, 2002.

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	3.68	3.36	2.70	2.66	2.90	2.52	2.42	3.03	2.14	2.57	4.52	4.60
10	4.88	4.39	3.12	2.58	2.64	2.46	2.37	2.64	2.33	2.17	3.37	2.93
15	3.34	3.20	3.13	2.58	2.63	2.49	2.85	2.53	2.13	2.25	2.67	3.01
20	3.10	3.02	2.75	2.76	2.48	2.51	2.54	2.46	2.37	2.76	2.69	2.62
25	3.12	2.88	2.71	2.61	3.80	2.77	2.48	2.34	2.29	3.45	3.31	3.18
EOM	3.25	2.76	2.68	3.16	2.73	2.45	2.76	2.23	2.25	3.14	3.20	3.93
MAX	4.88	6.63	3.64	3.54	4.03	2.77	3.92	4.02	3.77	3.45	5.16	4.60



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--255008080161801. Local Number F 239. USGS Observation Well in Hialeah, FL.

LOCATION.--Lat 25°50'08", long 80°16'18", in NW $^1/_4$ NW $^1/_4$ sec.17, T.53 S., R.41 E., Hydrologic Unit 03090202, 20 ft north of East 15th Street and 50 ft east of East 5th Avenue, 1.3 mi east of NW 57th Avenue.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 52.8 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 10.22 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 8.8 ft above NGVD. (Corrected).

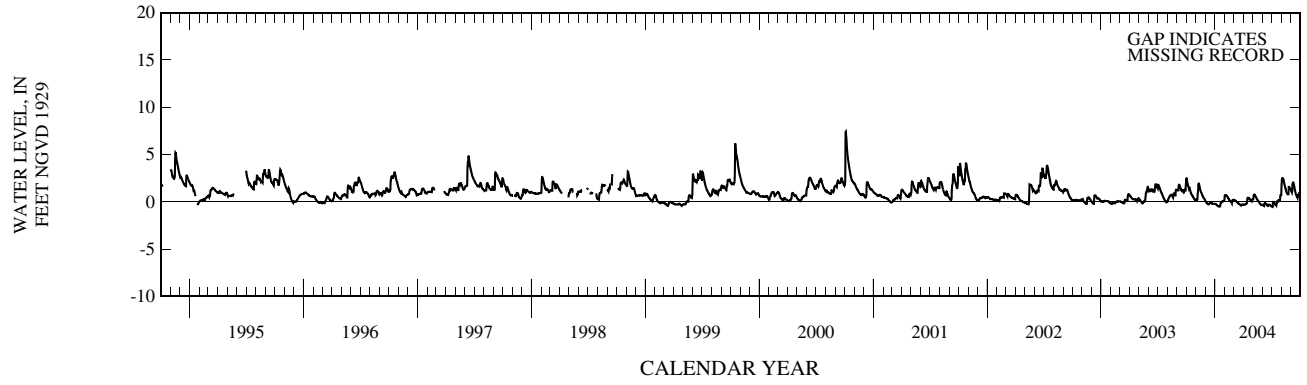
REMARKS.--Water levels affected by pumping. Records of water levels prior to October 1973 are available in the files of the U.S. Geological Survey.

PERIOD OF RECORD.--January 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.58 ft NGVD, Oct. 9, 1991; lowest, 1.44 ft below NGVD, Apr. 23, 1979.

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	1.94	0.23	-0.11	-0.29	0.70	0.13	-0.29	0.77	-0.43	0.00	2.42	1.84
10	1.50	1.92	-0.25	-0.45	0.50	0.02	-0.21	0.58	-0.17	-0.21	1.86	1.75
15	0.95	1.25	-0.08	-0.50	0.20	-0.16	0.44	0.23	-0.33	-0.37	1.25	0.94
20	0.64	0.80	-0.12	-0.08	0.04	-0.28	0.33	0.02	-0.29	-0.01	0.83	0.50
25	0.40	0.43	-0.20	0.05	0.05	-0.36	0.11	-0.26	-0.35	0.14	1.59	0.72
EOM	0.22	0.16	-0.21	0.25	0.22	-0.30	0.27	-0.31	-0.48	0.73	1.24	0.89
MAX	2.49	1.92	0.11	0.25	0.71	0.22	0.44	0.77	-0.14	0.73	2.49	2.04



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--255023080202301. Local Number G 976. USGS Observation Well near Miami Springs, FL.

LOCATION.--Lat 25°49'18", long 80°25'32", in NW $^1/_4$ SW $^1/_4$ NE $^1/_4$ sec.22, T.53 S., R.39 E., Hydrologic Unit 03090202, 0.75 mi north of NW 41st Street, 1.5 mi east of the Dade/Broward Levee, 4.25 mi north of U.S. Highway 41, and 7.0 mi west of Miami Springs. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 15 ft.

REVISED RECORDS.--WDR FL-79-2B:1978.

INSTRUMENTATION.-- Satellite data collection platform.

DATUM.--Measuring point: Top of base, 12.38 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 4.5 ft above NGVD. (Corrected).

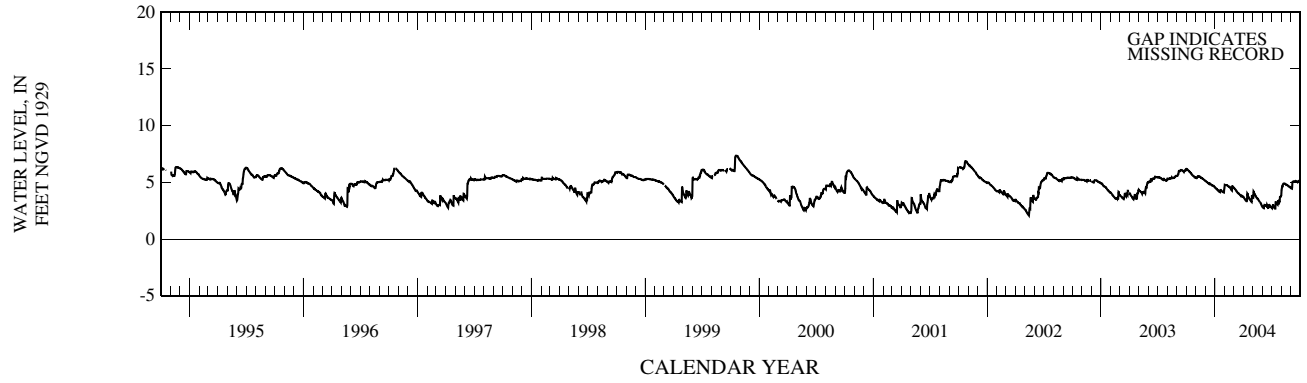
REMARKS.--Water levels affected by pumping. Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--January 1959 to November 4, 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.34 ft NGVD, Oct. 18-20, 1999; lowest, 0.61 ft NGVD, June 20-24, 1989.

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	6.11	5.45	5.03	4.43	4.76	4.39	3.53	4.05	2.72	2.98	4.78	5.01
10	5.95	5.53	4.92	4.29	4.70	4.22	3.34	3.81	2.96	2.74	4.89	5.09
15	5.81	5.45	4.90	4.16	4.60	4.05	3.82	3.56	3.02	3.14	4.79	5.11
20	5.62	5.36	4.77	4.27	4.45	3.92	3.55	3.39	2.76	3.34	4.74	5.04
25	5.53	5.25	4.70	4.17	4.65	3.82	3.34	3.21	2.95	3.25	4.63	5.04
EOM	5.40	5.13	4.55	4.49	4.54	3.73	3.73	2.89	2.78	3.81	4.48	5.14
MAX	6.18	5.53	5.12	4.53	4.77	4.52	4.02	4.20	3.02	3.81	4.89	5.14



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--255026080240302. Local Number G 3259A. USGS Observation Well near Hialeah, FL.

LOCATION.--Lat 25°50'26", long 80°24'03", in SE ¼ SE ¼ SE ¼ sec.11, T.53 S., R.39 E., Hydrologic Unit 03090202, on north side of NW 74th Street Extension, 0.8 mi west of Snapper Creek Canal Extension, and 1.0 mi north of NW 58th Street.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 60 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 9.08 ft above National Geodetic Vertical Datum of 1929. From March 27, 2002 to July 11, 2004, measuring point was 9.07 ft NGVD. From July 25, 1989 to March 27, 2002, measuring point was 7.43 ft above NGVD. Prior to July 25, 1989, measuring point was 7.52 ft NGVD. (Corrected). See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 5.1 ft above NGVD. (Corrected).

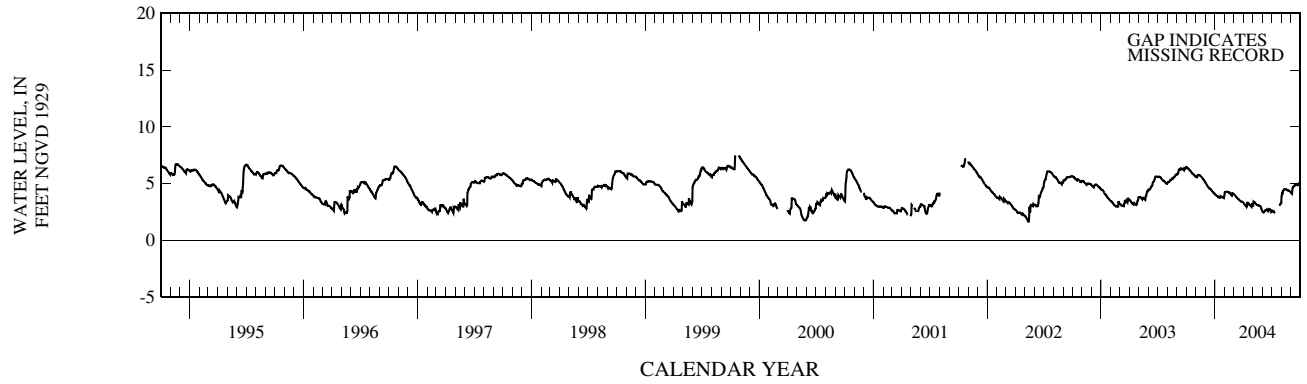
REMARKS.--Water levels affected by pumping. The station was destroyed by wildfire on July 11, 2004, and reconstructed on July 26, 2004. Record of maximum water levels that occurred during Hurricane Irene October 1999, is incomplete because of equipment failure. Well reconstructed for a higher measuring point March 27, 2002.

PERIOD OF RECORD.--May 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, greater than 7.43 ft NGVD, Oct. 15-27, 1999; lowest, 1.57 ft below NGVD, June 5, 1989 (Corrected).

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	6.38	5.60	4.92	3.95	4.28	3.95	3.14	3.39	2.45	2.60	4.34	4.57
10	6.24	5.76	4.69	3.87	4.27	3.80	3.02	3.26	2.66	2.41	4.51	4.80
15	6.08	5.67	4.56	3.78	4.21	3.64	3.27	3.10	2.74	---	4.50	4.89
20	5.87	5.54	4.43	3.85	4.06	3.52	3.14	3.07	2.62	---	4.42	4.89
25	5.78	5.35	4.26	3.78	4.16	3.41	3.00	3.00	2.74	---	4.38	4.90
EOM	5.64	5.14	4.06	3.99	4.10	3.34	3.18	2.60	2.65	3.28	4.21	5.08
MAX	6.45	5.76	5.10	4.04	4.28	4.07	3.38	3.41	2.78	---	4.51	5.08



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--255027080221602. Local Number G 3264A. USGS Observation Well near Hialeah, FL.

LOCATION.--Lat 25°50'27", long 80°22'16", in SE ¼ SE ¼ SE ¼ sec.7, T.53 S., R.40 E., Hydrologic Unit 03090202, on the north side of NW 74th Street Extension, west of Florida Power and Light right-of-way and 1.0 mi east of Snapper Creek Canal Extension.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 50 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of plywood base, 8.26 ft above National Geodetic Vertical Datum of 1929. From December 8, 1995 to April 16, 2002, measuring point was 7.03 ft above NGVD. Prior to December 8, 1995, measuring point was 6.78 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 5.0 ft above NGVD.

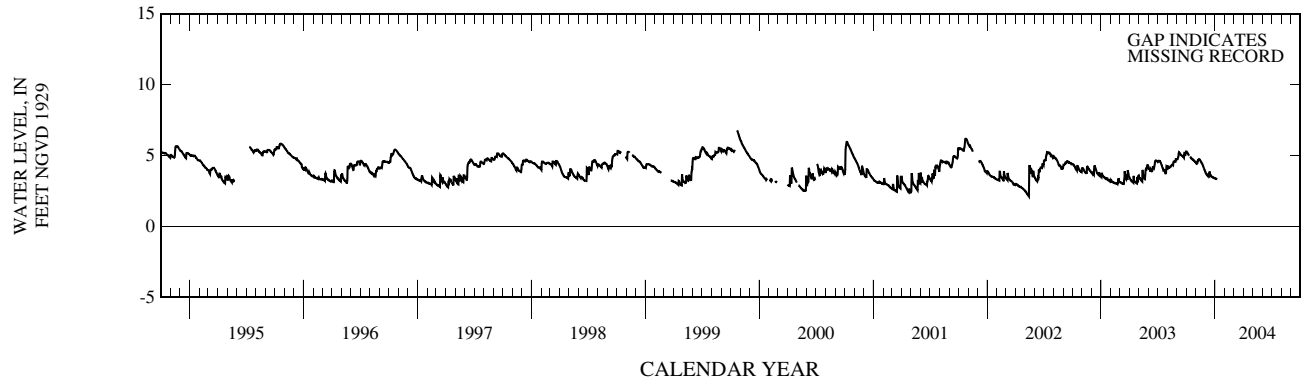
REMARKS.--Well destroyed on January 8, 2004, when the area was cleared during construction activity. From the start of the construction in November 2002, up to the destruction of the well, unusual fluctuations have been noted in the water-level data. This well was originally open to the aquifer from 20 to 50 ft. The open interval has collapsed or the well has become obstructed at a depth of 19 ft. Well remains in communication with the aquifer.

PERIOD OF RECORD.--June 1983 to May 1984 (quarterly), June 1984 to January 2004. Discontinued. See REMARKS.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 6.77 ft NGVD, Oct. 22, 1999; lowest, 0.89 ft NGVD, June 5, 1989.

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	5.19	4.47	3.66	3.37	---	---	---	---	---	---	---	---
10	4.99	4.75	3.71	---	---	---	---	---	---	---	---	---
15	4.86	4.64	3.76	---	---	---	---	---	---	---	---	---
20	4.73	4.44	3.55	---	---	---	---	---	---	---	---	---
25	4.65	4.17	3.46	---	---	---	---	---	---	---	---	---
EOM	4.52	3.89	3.39	---	---	---	---	---	---	---	---	---
MAX	---	4.75	3.88	---	---	---	---	---	---	---	---	---



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--255027080245501. Local Number G 3253. USGS Observation Well near Hialeah, FL.

LOCATION.--Lat 25°50'28", long 80°24'59", in SE $^1/_4$ SW $^1/_4$ SW $^1/_4$ sec.11, T.53 S., R.39 E., Hydrologic Unit 03090202, on the south side of NW 74th Street, 1.8 mi west of the Florida Turnpike and the Snapper Creek Canal Extension, and 1.0 mi north of NW 58th Street. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 34.5 ft, cased to 18 ft.

INSTRUMENTATION.--Electronic data logger. An electronic data logger with pressure transducer was used from March 27, 2003 to August 11, 2004. (Corrected).

DATUM.--Measuring point: Top of base, 9.46 ft above National Geodetic Vertical Datum of 1929. Prior to October 1993, measuring point was top of casing, 9.29 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 5.3 ft above NGVD.

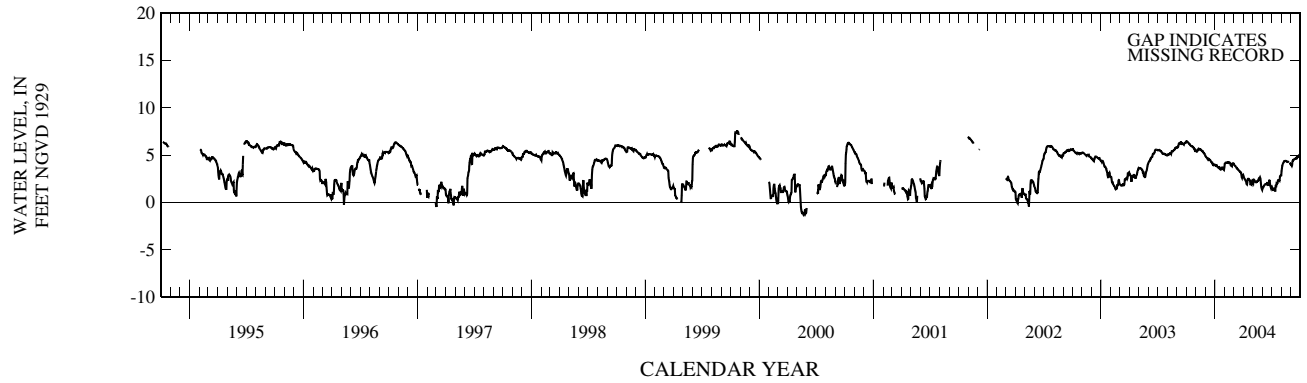
REMARKS.--Water levels affected by pumping.

PERIOD OF RECORD.--December 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.38 ft NGVD, Oct. 16, 1999; lowest, 4.78 ft below NGVD, June 4, 1992.

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	6.40	5.44	4.74	3.92	4.22	3.88	2.49	2.40	1.75	1.45	4.05	4.38
10	6.19	5.67	4.65	3.74	4.22	3.68	2.06	2.15	1.93	1.26	4.37	4.56
15	6.00	5.63	4.52	3.73	4.25	3.47	2.50	2.23	2.07	1.75	4.39	4.67
20	5.89	5.44	4.29	3.54	3.97	3.28	2.42	2.54	1.88	2.29	4.32	4.79
25	5.72	5.26	4.04	3.70	4.06	2.92	1.97	2.56	1.95	2.30	4.27	4.85
EOM	5.50	4.97	3.99	3.75	4.12	2.95	2.26	1.34	1.67	2.86	3.99	5.08
MAX	6.48	5.70	4.92	3.98	4.25	4.11	2.86	2.67	2.33	2.86	---	5.09



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--255035080255401. Local Number G 3760. USGS Observation Well near Hialeah Gardens, FL.

LOCATION.--Lat 25°50'29", long 80°26'02", in SW ¼ SW ¼ SW ¼ sec.10, T.53 S., R.39 E., Hydrologic Unit 03090202, 0.3 mi north of NW 41st Street and 2.96 mi west of State Road 821. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 8 in., depth 72.7 ft, cased to 70.7 ft, open hole 70.7 to 72.7 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 8.20 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 4.3 ft above NGVD. (Corrected).

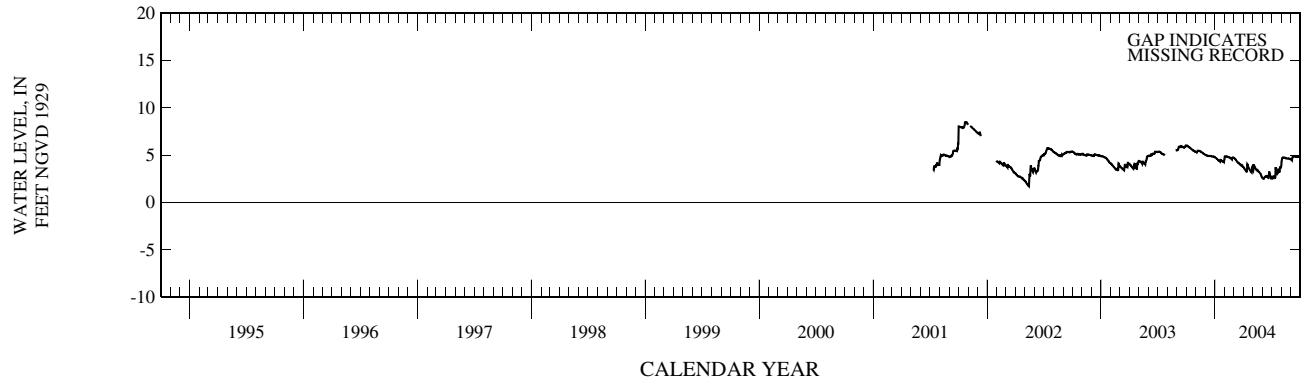
REMARKS.--The figures of water level as elevation, in feet NGVD, prior to January 2002 are in error. A - 1.80 ft correction has been applied to correct the data. Corrected records are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--July 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 6.70 ft NGVD, Oct. 22, 23, 2001 (Corrected); lowest, 1.72 ft NGVD, May 14, 2002.

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	5.97	5.38	4.98	4.67	4.88	4.61	3.53	3.88	2.52	2.76	4.76	4.80
10	5.84	5.48	4.93	4.52	4.84	4.41	3.27	3.59	2.74	2.63	4.76	4.89
15	5.71	5.40	4.93	4.38	4.77	4.21	3.86	3.36	2.81	3.21	4.68	4.90
20	5.56	5.29	4.89	4.47	4.69	4.06	3.52	3.25	2.59	3.39	4.67	4.83
25	5.47	5.16	4.88	4.34	4.73	3.98	3.24	3.07	2.96	3.29	4.64	4.85
EOM	5.36	5.05	4.79	4.60	4.75	3.77	3.63	2.63	2.65	3.81	4.54	4.97
MAX	6.03	5.48	5.03	4.77	4.88	4.73	4.06	3.97	3.21	3.81	4.77	4.97



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--255035080255402. Local Number G 3761. USGS Observation Well near Hialeah Gardens, FL.

LOCATION.--Lat 25°50'29", long 80°26'02", in SW ¼ SW ¼ SW ¼ sec.10, T.53 S., R.39 E., Hydrologic Unit 03090202, 0.3 mi north of NW 41st Street and 2.96 mi west of State Road 821. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 8 in., depth 16.3 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 8.11 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 4.8 ft above NGVD. (Corrected).

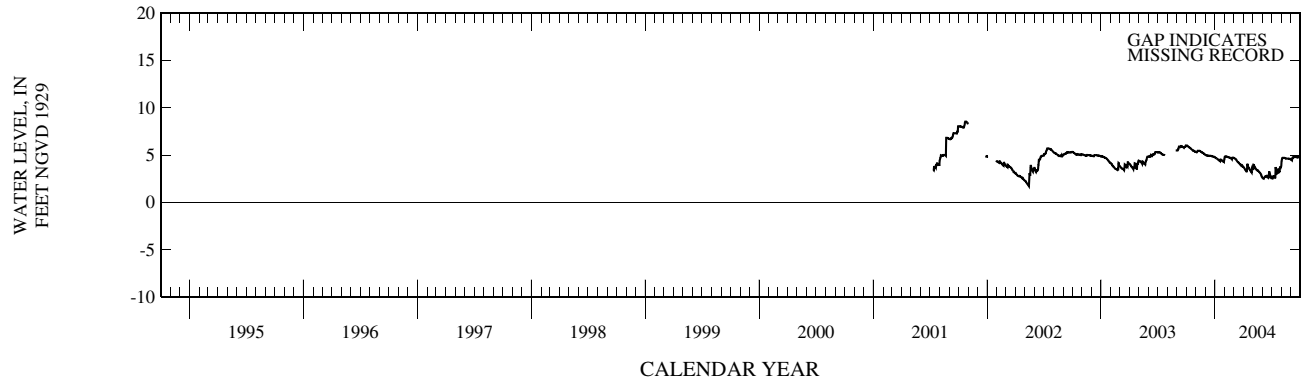
REMARKS.--The figures of water level as elevation, in feet NGVD, prior to December 2001 are in error. A -1.89 ft correction has been applied to correct the data. Corrected records are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--July 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 6.66 ft NGVD, Oct. 22-24, 2001 (Corrected); lowest, 1.74 ft NGVD, May 14, 2002.

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	5.97	5.39	4.98	4.67	4.87	4.63	3.57	3.90	2.52	2.78	4.73	4.73
10	5.83	5.48	4.95	4.57	4.82	4.46	3.29	3.61	2.76	2.65	4.72	4.80
15	5.71	5.41	4.95	4.42	4.76	4.25	3.87	3.39	2.83	3.24	4.65	4.83
20	5.54	5.29	4.92	4.53	4.69	4.07	3.56	3.27	2.60	3.41	4.65	4.78
25	5.45	5.20	4.87	4.37	4.73	3.98	3.27	3.09	2.99	3.30	4.63	4.80
EOM	5.36	5.05	4.78	4.63	4.74	3.79	3.65	2.67	2.67	3.82	4.53	4.92
MAX	6.03	5.48	5.04	4.76	4.88	4.72	4.11	3.99	3.22	3.82	4.73	4.92



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--255112080151901. Local Number G 3562. USGS Observation Well near Hialeah, FL.

LOCATION.--Lat 25°51'12", long 80°15'19", in SE ¼ SW ¼ SW ¼ sec.4, T.53 S., R.41 E., Hydrologic Unit 03090202, at northeast corner of intersection of NW 87th Terrace and NW 35th Court, 10 ft east of NW 35th Court curb, 0.9 mi west of State Road 9.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 5 in., depth 18.9 ft, cased to 13.6 ft, screened 14.1 to 18.9 ft. (Corrected).

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 13.14 ft above National Geodetic Vertical Datum of 1929. Prior to December 7, 2003, the measuring point was top of base, 13.30 ft above NGVD. (Corrected).

LAND-SURFACE DATUM.--Land surface is approximately 10.3 ft above NGVD.

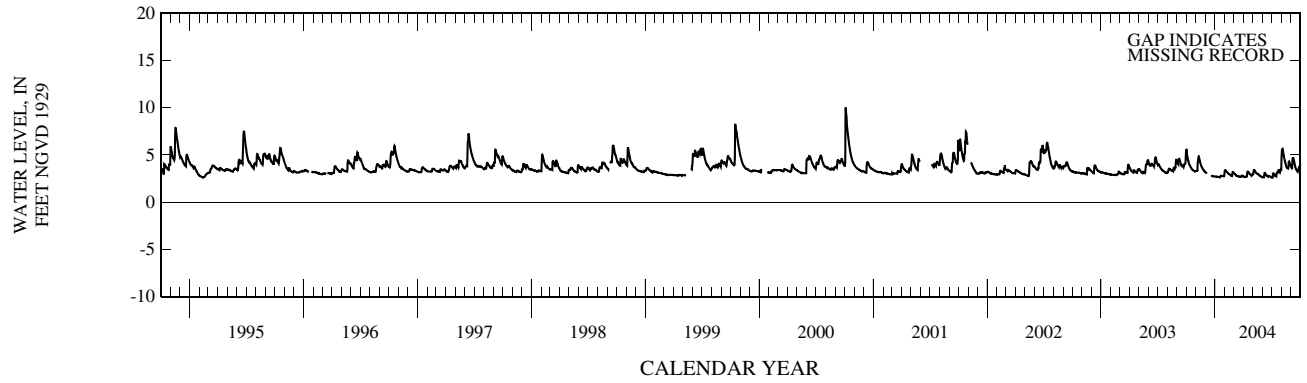
REMARKS.--Water levels affected by pumping.

PERIOD OF RECORD.--September 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 9.94 ft NGVD, Oct. 3, 4, 2000; lowest, 2.59 ft NGVD, July 3, 2004.

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	4.65	3.34	3.06	2.70	3.31	2.95	2.66	3.38	2.67	3.05	5.48	4.38
10	4.01	4.82	---	2.68	3.11	2.80	2.72	3.18	3.01	2.84	4.59	4.36
15	3.70	4.13	---	2.66	2.96	2.74	3.23	2.99	2.80	2.74	3.93	3.61
20	3.43	3.68	2.82	2.79	2.83	2.70	3.04	2.89	2.75	3.14	3.59	3.29
25	3.32	3.40	2.74	2.76	2.95	2.69	2.85	2.76	2.71	3.30	4.32	3.46
EOM	3.31	3.21	2.73	2.97	3.14	2.74	2.94	2.65	2.62	3.46	3.80	3.98
MAX	5.53	4.85	---	2.97	3.39	3.07	3.23	3.38	3.09	3.47	5.63	4.65



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--255116080120601. Local Number G 3602. USGS Observation Well near El Portal, FL.

LOCATION.--Lat 25°51'16", long 80°12'06", in SE $^1/_4$ SE $^1/_4$ SW $^1/_4$ sec.1, T.53 S., R.41 E., Hydrologic Unit 03090202, 29 ft west of intersection of NW 2nd Avenue and NW 87th Street, near Horace Mann Middle School.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 160 ft, cased to 155 ft, screened 155 to 160 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 5.23 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 5.2 ft above NGVD.

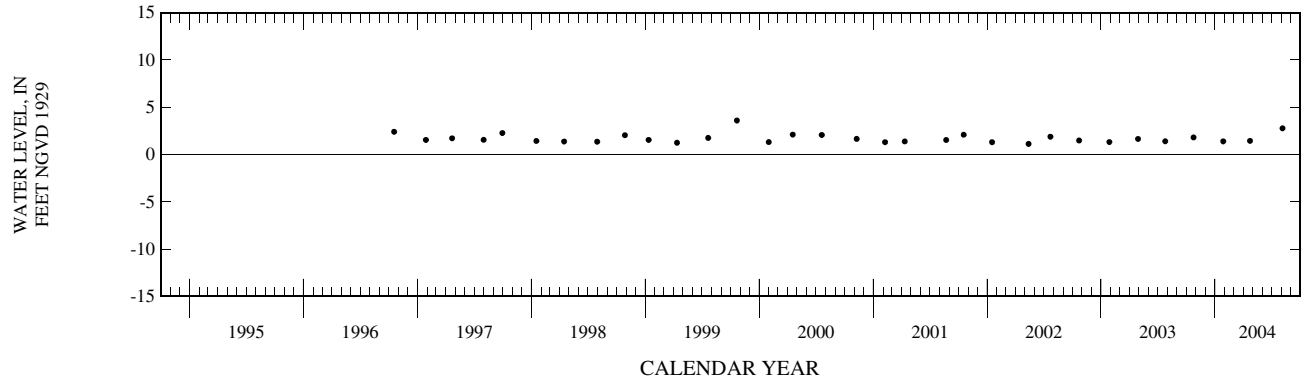
REMARKS.--Well is also used for quarterly salinity monitoring, including an annual induction log. Induction logs are used to assess movement of the fresh-water/salt-water interface in ground water. See EXPLANATION OF THE RECORDS SECTION, RECORDS OF BULK CONDUCTIVITY in the front of this book. A calibration error was found to have affected some of the historical bulk conductivity logs. Bulk conductivity logs prior to the 2002 water year had been (with the exception of 1998) calibrated to a standard of 1,301 mS/m. For these calibrations an internal setting limited the probe response to 1,000 mS/m. Data for the affected years was corrected by applying a 0.7686 multiplier. Salinity monitoring began in September 1995. Water-level measurements began in October 1996.

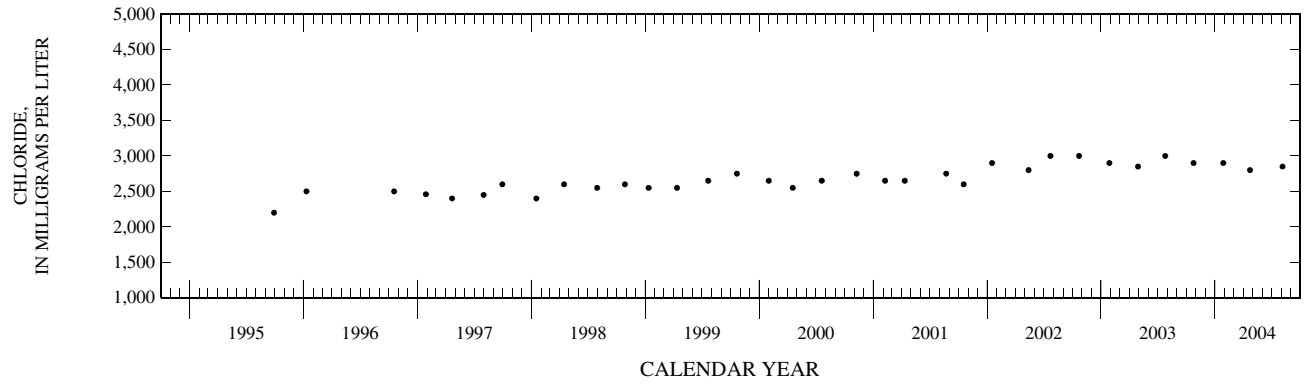
PERIOD OF RECORD.--September 1995 to current year. See REMARKS.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.60 ft NGVD, Oct. 21, 1999; lowest, 1.13 ft NGVD, May 13, 2002.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

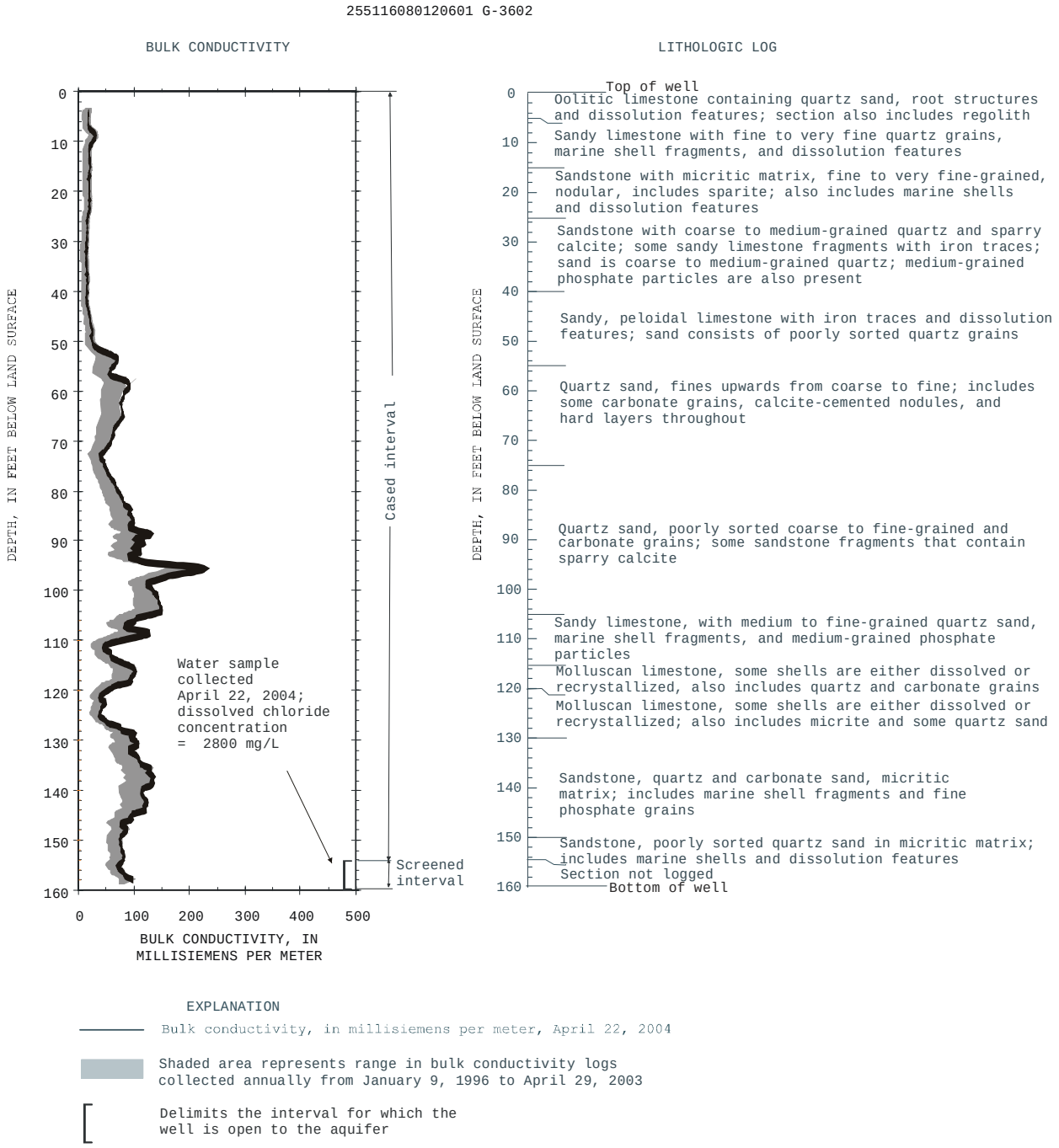
Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
24...	0815	1.81	9,410	2,900
JAN				
27...	0925	1.40	9,390	2,900
APR				
22...	1130	1.45	8,850	2,800
AUG				
04...	0902	2.78	9,670	2,850





MIAMI-DADE COUNTY—Continued

WELL NUMBER.--255116080120601. Local Number G 3602. USGS Observation Well near El Portal, FL.-Continued



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--255208080274001. Local Number G 975. USGS Observation Well near Pennsuco, FL.

LOCATION.--Lat 25°52'08", long 80°27'40", in NE ¼ NW ¼ sec.5, T.53 S., R.39 E., Hydrologic Unit 03090202, 1.0 mi southwest of junction of Pennsuco Canal and Dade/Broward Levee, 5.5 mi southwest of Pennsuco, and 7.5 mi north of U.S. Highway 41.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 15 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of base, 14.38 ft above National Geodetic Vertical Datum of 1929. Between December 13, 2001 and May 1, 2002, the measuring point gradually shifted to the current elevation. Prior to December 13, 2001, measuring point was 14.53 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 7.4 ft above NGVD.

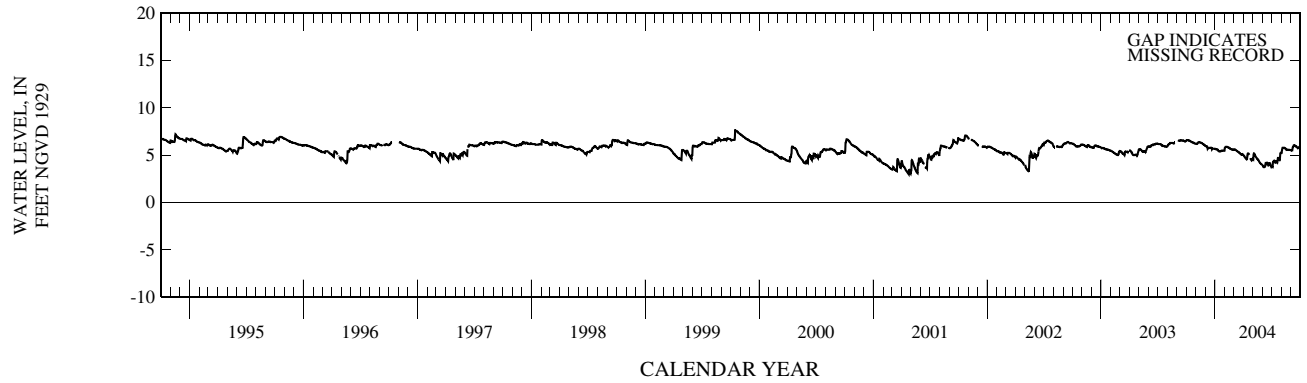
REMARKS.--Station reconstructed on May 1, 2002 to stabilize the well. Data for the period December 13, 2001 to May 1, 2002, has been corrected to the extent possible but should be considered poor. See DATUM.

PERIOD OF RECORD.--July 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.78 ft NGVD, Oct. 14, 1960; lowest, 2.07 ft NGVD, June 2, 1962.

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	6.60	6.22	5.94	5.63	5.88	5.59	4.83	5.17	3.76	4.33	5.77	5.65
10	6.55	6.38	5.76	5.57	5.85	5.49	4.59	4.87	4.03	4.41	5.79	6.05
15	6.46	6.35	5.78	5.42	5.78	5.35	5.19	4.60	4.11	4.32	5.65	5.95
20	6.36	6.28	5.79	5.44	5.66	5.20	5.03	4.41	3.91	4.69	5.58	5.81
25	6.29	6.14	5.70	5.48	5.58	5.05	4.55	4.13	4.15	4.47	5.57	5.77
EOM	6.22	6.00	5.69	5.48	5.62	5.05	4.62	3.99	3.83	5.24	5.54	5.97
MAX	6.60	6.38	5.98	5.67	5.89	5.63	---	5.18	4.19	5.25	5.80	6.05



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--255209080212801. Local Number G 973. USGS Observation Well near Medley, FL.

LOCATION.--Lat 25°52'09", long 80°21'28", in NW ¼ NE ¼ NE ¼ sec.5, T.53 S., R.40 E., Hydrologic Unit 03090202, on Russian Colony Road, 0.5 mi north of Medley, and 1.0 mi west of Miami Canal.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 15 ft, cased to 10 ft.

REVISED RECORDS.--WDR FL-85-2B:1978.

INSTRUMENTATION.--Electronic data logger with pressure transducer.

DATUM.--Measuring point: Top of casing, 6.87 ft above National Geodetic Vertical Datum of 1929. Prior to November 2001, measuring point was 9.30 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 6.9 ft above National Geodetic Vertical Datum of 1929. (Corrected).

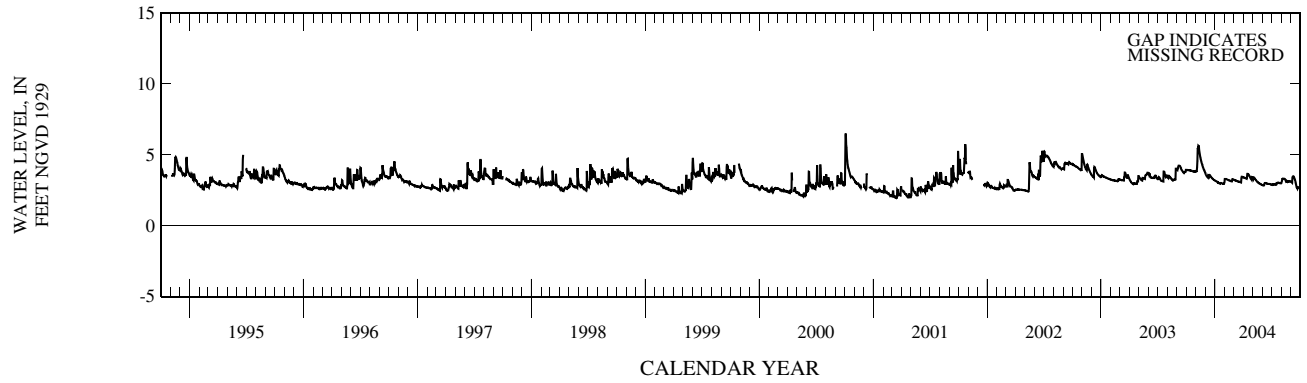
REMARKS.--Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey. Station reconstructed and pressure transducer installed December 19, 2001. This well has collapsed or become obstructed at a depth of 9 ft. Water-level data for elevations above -2.1 ft NGVD are unaffected by the obstruction.

PERIOD OF RECORD.--April 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 6.45 ft NGVD, Oct. 3, 4, 2000; lowest, 0.92 ft NGVD, May 31, 1962.

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	3.94	4.57	3.51	3.14	3.30	3.21	3.38	3.39	2.84	2.92	3.33	3.42
10	3.92	5.46	3.57	3.05	3.25	3.17	3.33	3.25	3.02	2.92	3.31	3.43
15	3.89	4.80	3.56	2.99	3.21	3.13	3.65	3.11	2.99	2.92	3.15	3.04
20	3.86	4.36	3.41	3.02	3.16	3.09	3.51	3.01	2.95	3.04	3.13	2.66
25	3.83	4.02	3.30	2.97	3.28	3.36	3.32	2.95	2.94	3.02	3.16	2.69
EOM	3.86	3.76	3.20	3.03	3.26	3.42	3.39	2.88	2.91	3.00	3.10	2.69
MAX	3.95	5.65	3.71	3.19	3.31	3.46	3.66	3.42	3.02	3.04	3.33	3.49



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--255344080195600. Local Number G 1166R. USGS Observation Well in Hialeah, FL.

LOCATION.--Lat 25°53'44", long 80°19'56", in SW ¼ NW ¼ NE ¼ sec.27, T.52 S., R.40 E., Hydrologic Unit 03090202, on the east side of West 24th Avenue, 0.3 mi south of NW 138th Street, 0.5 mi west of State Road 826. (Corrected)

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 18 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 10.66 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 7.5 ft above NGVD. (Corrected).

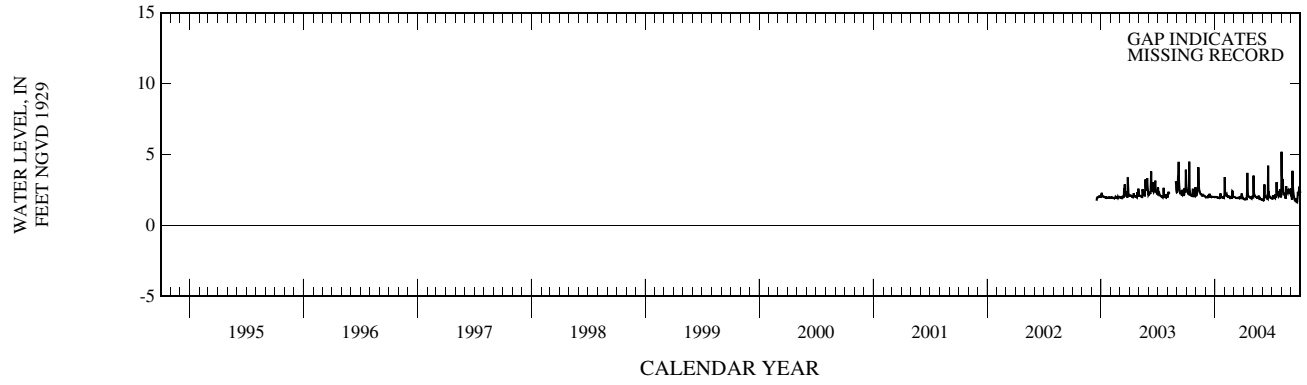
REMARKS.--Replacement well for G-1166.

PERIOD OF RECORD.--December 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 5.19 ft NGVD, Aug. 1, 2004; lowest, 1.70 ft NGVD, Sept. 17,20,2004.

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	2.36	2.42	2.01	2.00	2.15	1.99	1.84	2.16	1.77	2.04	3.24	3.85
10	4.50	2.67	2.15	1.97	2.05	1.95	1.86	2.04	2.03	1.95	2.20	2.02
15	2.14	2.23	2.09	1.94	2.10	1.96	2.13	1.95	2.02	2.00	2.02	1.92
20	2.08	2.11	2.02	2.02	1.96	1.97	2.01	2.05	2.36	2.33	2.34	1.70
25	2.18	2.11	2.02	1.96	2.43	2.11	1.93	1.87	2.00	2.34	2.53	2.24
EOM	2.23	2.04	1.99	2.11	2.02	1.93	1.99	1.82	1.92	2.09	2.56	2.29
MAX	4.50	4.10	2.24	2.26	3.41	2.25	3.71	3.51	4.21	3.05	5.19	3.85



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--255358080114101. Local Number G 3601. USGS Observation Well near North Miami, FL.

LOCATION.--Lat 25°53'58", long 80°11'41", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.19, T.52 S., R.42 E., Hydrologic Unit 03090202, 300 ft north of NW 135th Street, 28 ft west of Memorial Boulevard, along east bank of Biscayne Canal.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 190 ft, cased to 185 ft, screened 185 to 190 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 6.83 ft above National Geodetic Vertical Datum of 1929. Prior to the 2000 water year measuring point was estimated to be 5 ft above NGVD from topographic map. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately about 6.8 ft above NGVD.

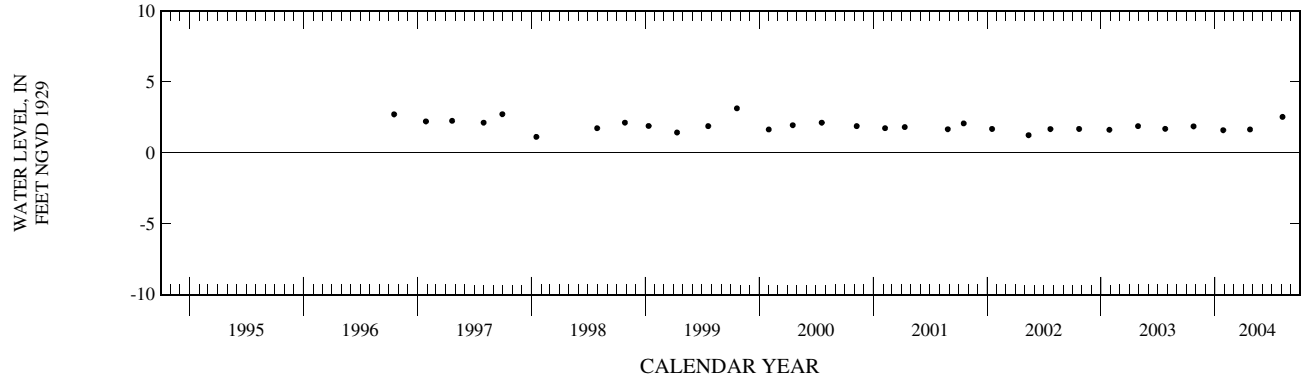
REMARKS.--Well is also used for salinity monitoring, including an annual induction log. Induction logs are used to assess movement of the fresh-water/salt-water interface in ground water. A calibration error was found to have affected some of the historical bulk conductivity logs. Bulk conductivity logs prior to the 2002 water year had been (with the exception of 1998) calibrated to a standard of 1,301 mS/m. For these calibrations an internal setting limited the probe response to 1,000 mS/m. Data for the affected years was corrected by applying a 0.7686 multiplier. See EXPLANATION OF THE RECORDS SECTION, RECORDS OF BULK CONDUCTIVITY in the front of this book. Quarterly chloride sampling began in September 1995. Quarterly water-level measurement began in October 1996. Water-level elevation data collected prior to March 14, 2000, have been computed using the measuring point established on March 14, 2000 and are in the files of the U.S. Geological Survey

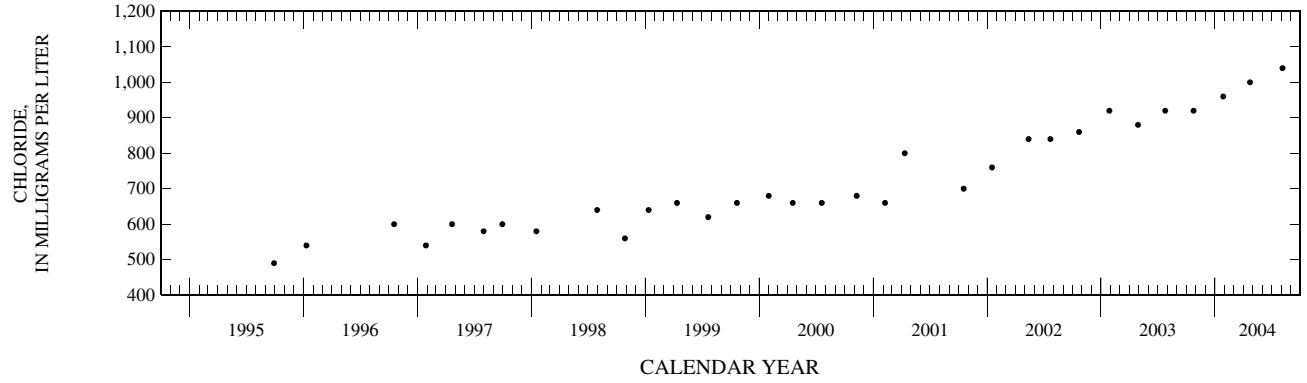
PERIOD OF RECORD.--September 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.14 ft NGVD, Oct. 21, 1999; lowest, 1.13 ft NGVD, Jan. 16, 1998.

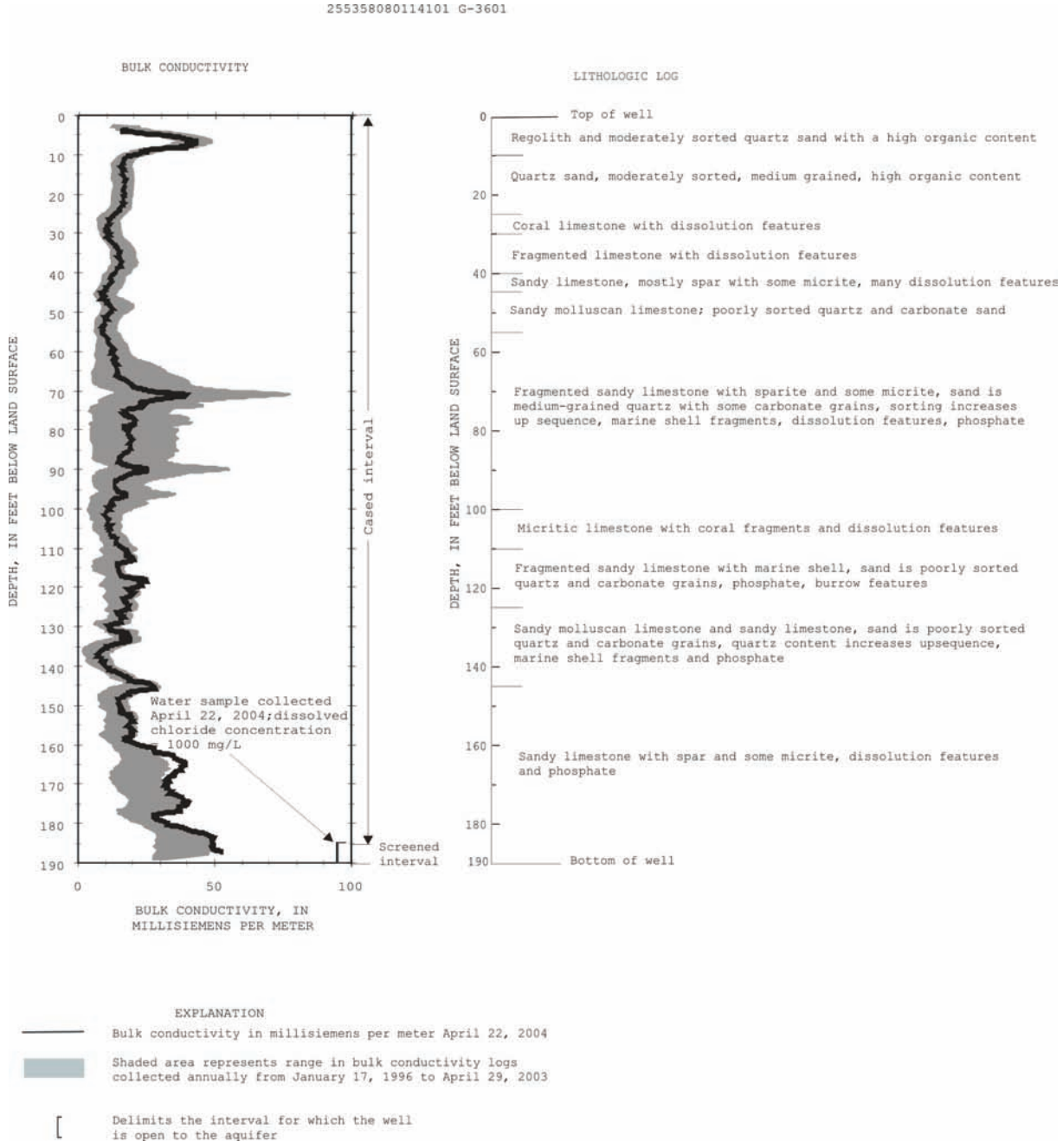
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
24...	0745	1.87	3,370	920
JAN				
27...	0850	1.60	3,460	960
APR				
22...	0832	1.65	3,450	1,000
AUG				
04...	0831	2.54	3,840	1,040





WELL NUMBER.--255358080114101. Local Number G 3601. USGS Observation Well near North Miami, FL.-Continued



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--255358080260901. Local Number G 3567. USGS Observation Well near Miami, FL.

LOCATION.--Lat 25°53'58", long 80°26'09", in NW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.22, T.52 S., R.39 E., Hydrologic Unit 03090202, on dirt road next to power pole 27, 6.0 mi north of NW 41st Street, 2.7 mi south of U.S. Highway 27, and 2.8 mi west of NW 117th Avenue (State Road 821).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 5 in., depth 18.7 ft, cased to 13.7 ft, open hole 13.7 to 18.7 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 10.14 ft above National Geodetic Vertical Datum of 1929.

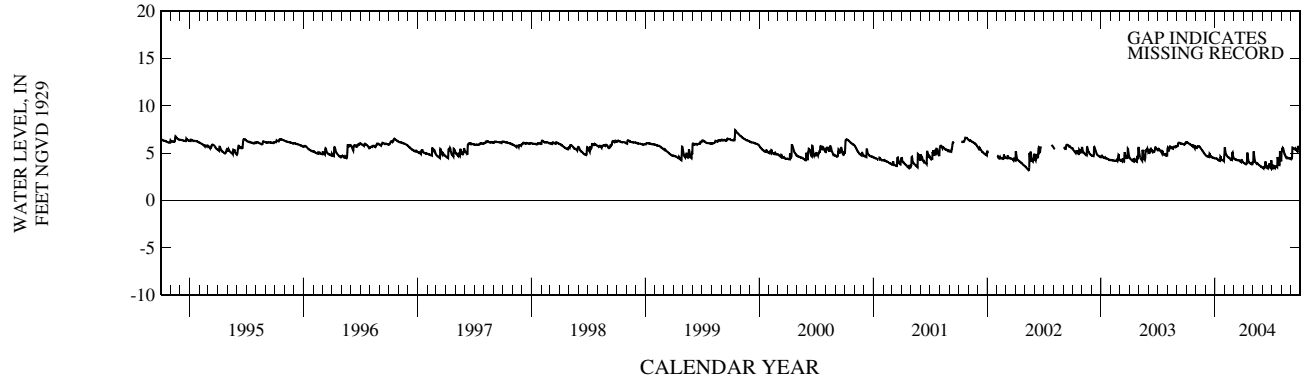
LAND-SURFACE DATUM.--Land surface is approximately 6.6 ft above NGVD. (Corrected).

PERIOD OF RECORD.--September 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.46 ft NGVD, Oct. 15, 1999; lowest, 3.21 ft NGVD, May 13, 2002.

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	6.13	5.65	4.69	4.44	4.90	4.37	3.91	4.67	3.58	3.66	5.56	5.60
10	5.99	5.73	4.68	4.33	4.63	4.30	3.87	4.03	4.13	3.45	4.93	5.47
15	5.89	5.56	4.89	4.23	4.53	4.28	4.51	3.88	3.64	3.63	4.57	5.49
20	5.75	5.33	4.61	4.43	4.34	4.17	3.99	3.77	3.48	4.46	4.48	5.21
25	5.71	5.09	4.54	4.24	5.04	4.29	3.87	3.64	3.54	3.77	4.48	5.51
EOM	5.69	4.86	4.46	4.92	4.56	4.04	3.95	3.49	3.61	4.13	4.37	5.76
MAX	6.19	5.74	4.95	4.92	5.63	4.49	5.07	5.12	4.26	5.14	5.57	5.76



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--255437080103201. Local Number G 852. USGS Observation Well in North Miami Beach, FL.

LOCATION.--Lat 25°54'37", long 80°10'32", in NW ¼ SE ¼ NW ¼ sec.20, T.52 S., R.42 E., Hydrologic Unit 03090202, at corner of NE 12th Avenue and NE 147th Street in North Miami Beach, 1.3 mi west of U.S. Highway 1.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

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

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of base, 8.38 ft above National Geodetic Vertical Datum of 1929. From October 1997 to September 2000, measuring point was incorrectly considered to be 8.40 ft above NGVD. From November 1988 to July 1989, measuring point was 8.52 ft above NGVD. From March 1983 to November 1988, measuring point was 8.56 ft above NGVD. From March 1983 to October 1997, top of base measuring point was reported as top of casing. Prior to March 1983, measuring point was top of casing, 8.64 ft above NGVD. The figures of water level as elevation, in feet NGVD, from October 1997 to September 2000 are in error. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 6.1 ft above NGVD.

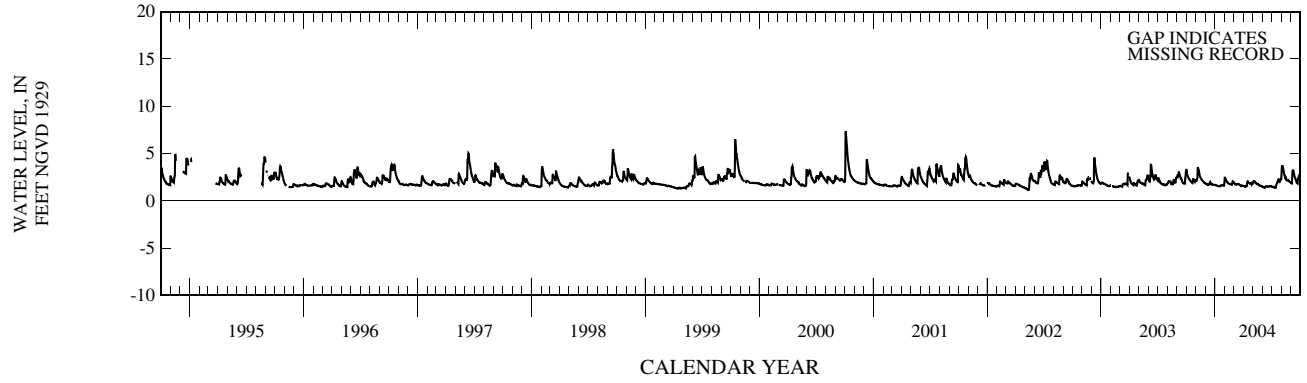
REMARKS.--Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey. The figures of water level as elevation, in feet NGVD, from October 1997 to September 2000, are in error. A correction of -0.02 ft is required to correct water-level data. Because the correction is close to the recorder accuracy, records have not been corrected. See DATUM.

PERIOD OF RECORD.--April 1959 to current year. (Corrected).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.28 ft NGVD, Oct. 3, 4, 2000; lowest, 0.17 ft NGVD, May 31, 1962.

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	2.66	2.38	1.76	1.63	2.20	1.76	1.51	2.09	1.42	1.47	3.52	3.16
10	2.31	3.19	1.74	1.57	1.92	1.75	1.57	1.91	1.51	1.39	2.74	2.83
15	2.07	2.50	1.91	1.55	1.80	1.80	2.07	1.75	1.52	1.71	2.37	2.28
20	1.89	2.19	1.77	1.65	1.74	1.68	1.88	1.67	1.50	2.09	2.24	1.87
25	2.21	2.00	1.71	1.64	1.83	1.56	1.86	1.59	1.57	2.17	2.09	2.43
EOM	2.20	1.87	1.69	1.97	1.99	1.59	1.91	1.53	1.51	2.32	1.98	3.03
MAX	3.28	3.49	1.98	1.97	2.46	1.96	2.07	2.09	1.57	2.32	3.69	3.22



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--255526080143001. Local Number S 18. USGS Observation Well near Opa-Locka, FL.

LOCATION.--Lat 25°55'26", long 80°14'30", in NW $^1/_4$ NW $^1/_4$ sec.15, T.52 S., R.41 E., Hydrologic Unit 03090202, in parking lot of the North Dade Regional Library, 0.2 mi south of the Palmetto Expressway (State Road 826), 0.2 mi east of NW 27th Avenue, and 1.3 mi north of Opa-Locka.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 8 in., depth 52 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 10.18 ft above National Geodetic Vertical Datum of 1929. Prior to October 1992, the measuring point was top of casing, 10.12 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 9.1 ft above NGVD.

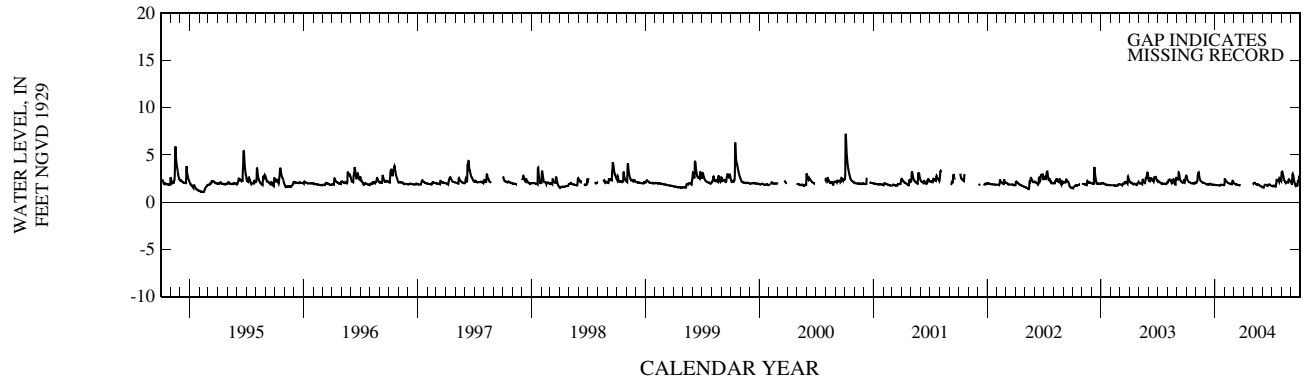
REMARKS.--Records of water levels prior to January 1957 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--December 1939 to current year. (Corrected).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.54 ft NGVD, Oct. 12, 1947; lowest, 0.05 ft NGVD, June 3, 1945.

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	2.34	2.23	1.90	1.81	2.24	1.91	---	2.05	1.54	1.77	2.92	2.92
10	2.12	3.03	1.90	1.80	2.07	1.87	---	1.97	1.85	1.68	2.28	2.33
15	2.04	2.31	1.95	1.79	2.00	1.82	---	1.84	1.77	1.93	2.04	1.90
20	1.99	2.12	1.86	1.85	1.92	1.80	---	1.82	1.85	2.24	2.11	1.75
25	1.99	2.06	1.87	1.82	2.18	---	---	1.71	1.84	2.60	2.43	2.21
EOM	2.09	1.99	1.83	1.86	2.08	---	---	1.60	1.72	2.25	2.11	2.81
MAX	2.79	3.17	1.96	1.86	2.42	---	---	2.05	1.88	2.60	3.23	2.98



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--255600080270001. Local Number G 968. USGS Observation Well near Hialeah Gardens, FL.

LOCATION.--Lat 25°56'10", long 80°26'50", in SE $^1/_4$ NW $^1/_4$ sec.9, T.52 S., R.39 E., Hydrologic Unit 03090202, 150 ft from the northwest side of Levee 30, 0.6 mi southwest of Miami Canal, 1.3 mi south of Miami-Dade and Broward County Line, and 9 mi northwest of Hialeah Gardens. (Corrected).

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 16 in., depth 50 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.-- Measuring point: Top of base, 10.87 ft above National Geodetic Vertical Datum of 1929. Prior to October 1997, measuring point was 10.85 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 5.2 ft above NGVD. (Corrected).

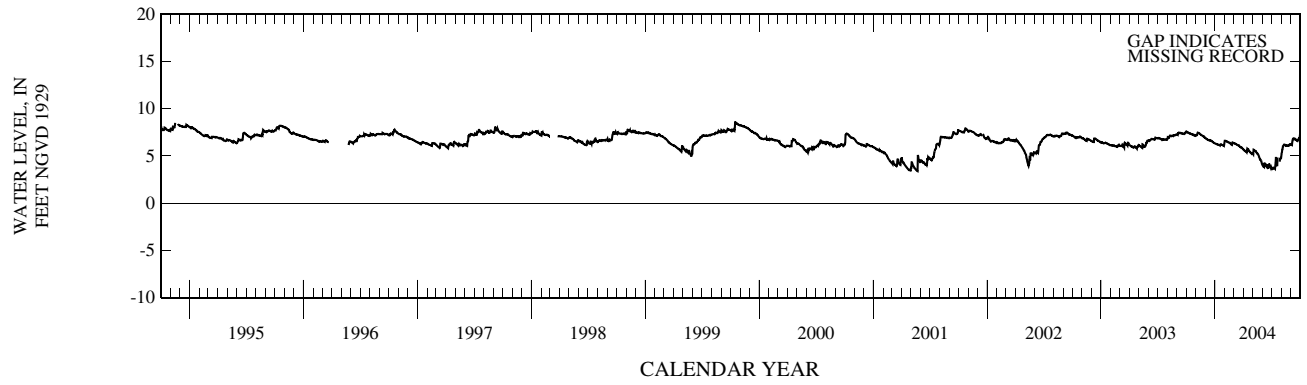
REMARKS.--For an unknown period of time, the transite well casing was cracked, allowing the surface water from the conservation area to combine with the water inside the well. Ground water level records may be affected. Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--April 1960 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.57 ft NGVD, Oct. 15, 1999; minimum water level recorded, 1.70 ft NGVD, May 31, 1962.

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	7.49	7.37	6.79	6.26	6.57	6.32	5.54	5.60	3.86	3.74	5.96	6.59
10	7.41	7.41	6.69	6.19	6.49	6.21	5.43	5.51	4.11	3.66	6.19	6.86
15	7.34	7.28	6.69	6.14	6.42	6.13	5.73	5.25	4.02	4.55	6.08	6.74
20	7.26	7.16	6.58	6.20	6.26	5.98	5.49	5.01	3.75	---	6.09	6.58
25	7.17	7.06	6.47	6.12	6.40	5.89	5.31	4.62	3.91	---	6.10	6.77
EOM	7.18	6.91	6.33	6.38	6.36	5.70	5.25	4.12	3.73	4.91	6.21	7.19
MAX	7.57	7.44	6.89	6.38	6.60	6.34	5.77	5.65	4.28	---	6.23	7.22



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--255616080180301. Local Number G 3571. USGS Observation Well near Miami Lakes, FL.

LOCATION.--Lat 25°56'16", long 80°18'03", in NW $^1/_4$ SW $^1/_4$ NE $^1/_4$ sec.12, T.52 S., R.40 E., Hydrologic Unit 03090202, in Mediterranean Gardens, between NW 61st Avenue and NW 60th Court, 10 ft north of edge of pavement, 0.13 mi south of Miami Gardens Drive.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 5 in., depth 18.5 ft, cased to 13.5 ft, open hole 13.5 to 18.5 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 10.32 ft above National Geodetic Vertical Datum of 1929.

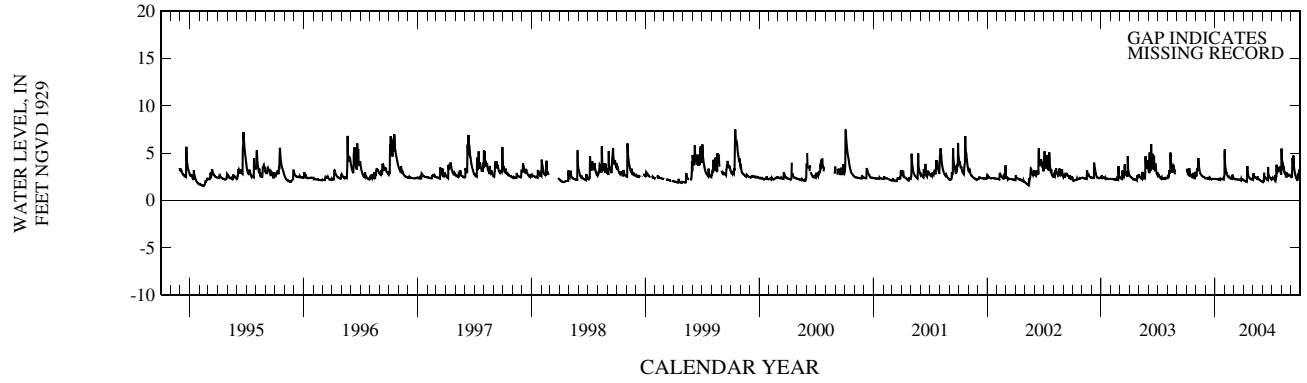
LAND-SURFACE DATUM.--Land surface is approximately 7.4 ft above NGVD. (Corrected).

PERIOD OF RECORD.--November 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.52 ft NGVD, Oct. 15, 1999; lowest, 1.54 ft NGVD, Feb. 14, 15, 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	2.91	3.09	2.35	2.27	3.07	2.27	2.08	2.59	1.95	2.35	3.90	4.49
10	3.42	3.63	2.38	2.25	2.63	2.25	2.05	2.40	2.41	2.21	2.97	3.53
15	2.67	2.85	2.42	2.19	2.51	2.22	2.78	2.27	2.23	2.47	2.54	2.56
20	2.46	2.62	2.23	2.28	2.32	2.19	2.40	2.25	2.69	3.10	2.70	2.16
25	2.38	2.50	2.29	2.25	2.64	2.32	2.25	2.11	2.42	3.36	2.69	2.76
EOM	2.63	2.36	2.29	2.69	2.38	2.20	2.34	1.99	2.30	2.74	2.56	3.17
MAX	---	4.49	2.47	2.69	5.39	2.32	3.64	2.91	3.54	3.78	5.49	4.77



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--255625080094901. Local Number G 3705. USGS Observation Well near North Miami Beach, FL.

LOCATION.--Lat 25°56'25", long 80°09'49", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.9, T.52 S., R.42 E., Hydrologic Unit 03090202, 15 ft north of NE 179th Street and 175 ft west of NE 19th Avenue, 0.90 mi west of U.S. Highway 1.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 135 ft, cased to 125 ft, screened 125 to 135 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 9.06 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 9.1 ft above NGVD.

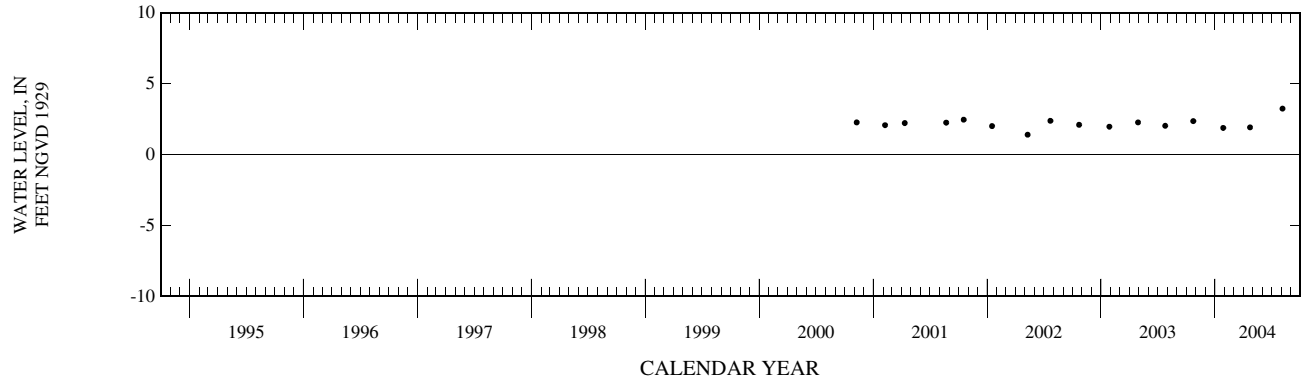
REMARKS.--Well is also used for annual salinity monitoring, including an annual induction log. Induction logs are used to assess the movement of the fresh-water/salt-water interface in ground water. See EXPLANATION OF THE RECORDS SECTION, RECORDS OF BULK CONDUCTIVITY in the front of this book. Annual induction logs began in April 2000. A calibration error was found to have affected some of the historical bulk conductivity logs. Bulk conductivity logs prior to the 2002 water year had been calibrated to a standard of 1,301 mS/m. For these calibrations an internal setting limited the probe response to 1,000 mS/m. Data for the affected years was corrected by applying a 0.7686 multiplier. Induction logging began in April 2000. Salinity monitoring began in May 2002. Water-level measurements began in November 2000.

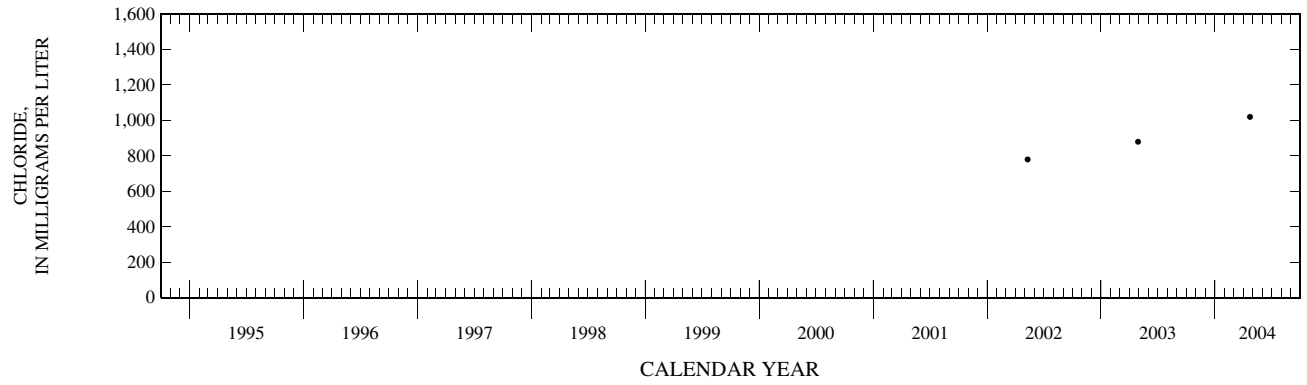
PERIOD OF RECORD.--April 2000 to current year. See REMARKS.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.24 ft NGVD, Aug. 4, 2004; lowest, 1.40 ft NGVD, May 10, 2002.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

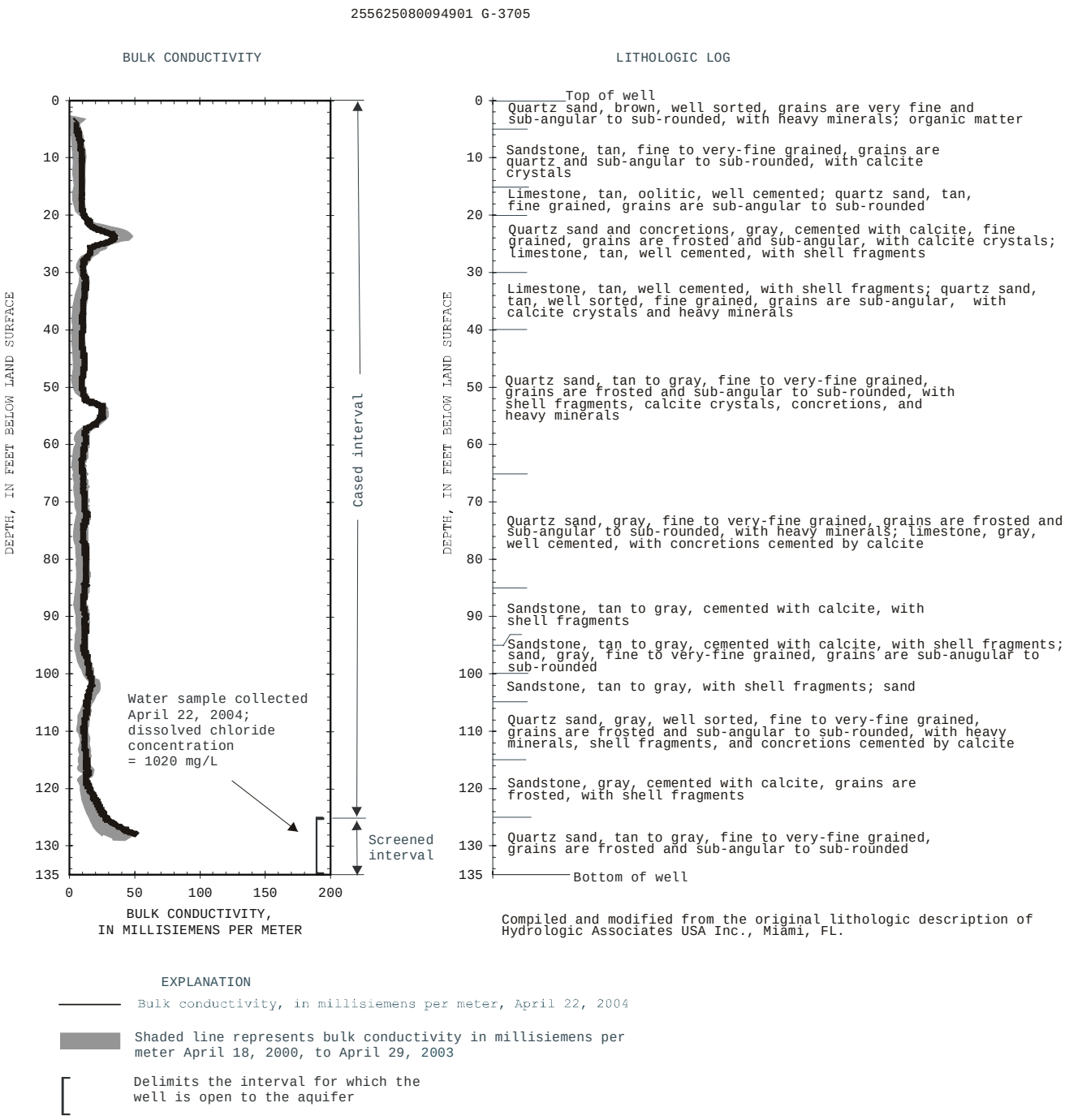
Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
23...	0747	2.36	--	--
JAN				
27...	0825	1.88	--	--
APR				
22...	1455	1.92	3,360	1,020
AUG				
04...	0808	3.24	--	--





MIAMI-DADE COUNTY—Continued

WELL NUMBER.--255625080094901. Local Number G 3705. USGS Observation Well near North Miami Beach, FL-Continued



Compiled and modified from the original lithologic description of Hydrologic Associates USA Inc., Miami, FL.

EXPLANATION

Bulk conductivity, in millisiemens per meter, April 22, 2004

Shaded line represents bulk conductivity in millisiemens per meter April 18, 2000, to April 29, 2003

Delimits the interval for which the well is open to the aquifer

MIAMI-DADE COUNTY—Continued

WELL NUMBER.--255626080093201. Local Number G 3600. USGS Observation Well near North Miami Beach, FL.

LOCATION.--Lat 25°56'26", long 80°09'32", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.9, T.52 S., R.42 E., Hydrologic Unit 03090202, 500 ft east of NW 20th Avenue on south side of NW 179th Street, 0.6 mi west of U.S. Highway 1, near a golf course.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 200 ft, cased to 195 ft, screened 195 to 200 ft.

INSTRUMENTATION.--Quarterly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 9.24 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 9.2 ft above NGVD.

REVISED RECORDS.--WDR-FL-00B and WDR-FL-01B - Figures of bulk conductivity were affected by an error in calibration. See REMARKS. WDR-FL-02B WDR-FL-03B - Published figures of historical bulk conductivity (water years 1996 to 2001 excluding 1998) were affected by an errant correction for a calibration error. See REMARKS. These corrections are incorporated in the graph of bulk conductivity published in this report.

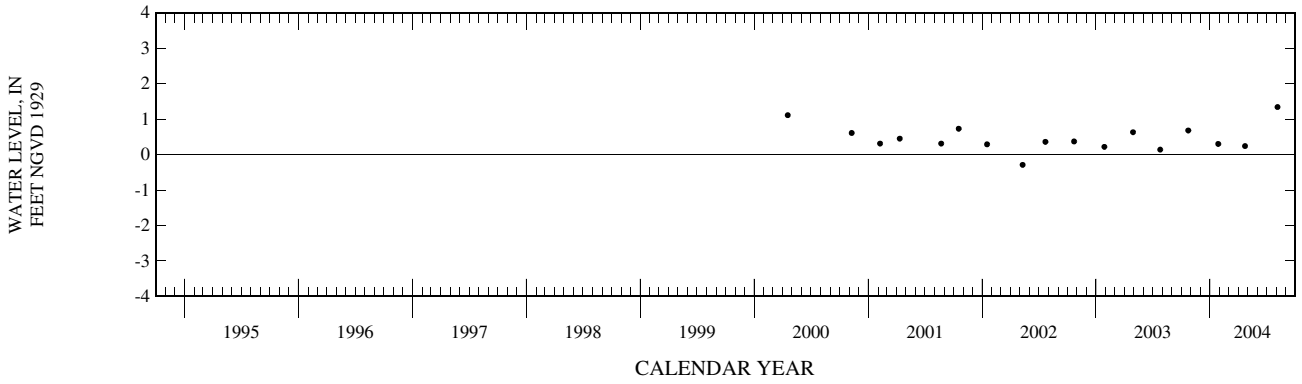
REMARKS.--Well is also used for salinity monitoring, including an annual induction log. Induction logs are used to assess movement of the fresh-water/salt-water interface in ground water. See EXPLANATION OF THE RECORDS SECTION, RECORDS OF BULK CONDUCTIVITY in the front of this book. A calibration error was found to have affected some of the historical bulk conductivity logs. Bulk conductivity logs prior to the 2002 water year had been (with the exception of 1998) calibrated to a standard of 1,301 mS/m. For these calibrations an internal setting limited the probe response to 1,000 mS/m. Data for the affected years was corrected by applying a 0.7686 multiplier. Figures of historical bulk conductivity published for the 2002 and 2003 water years were in error. These historical data (water years 1996 to 2001 excluding 1998) had been overcorrected by a factor of two for the calibration error previously discussed for these years. The proper corrections have been applied to these historical data and these records are available in the files of the U.S. Geological Survey. These corrections are incorporated in the graph of bulk conductivity published in this report. Salinity monitoring began in August 1995. Water-level measurements began in April 2000. See REVISED RECORDS.

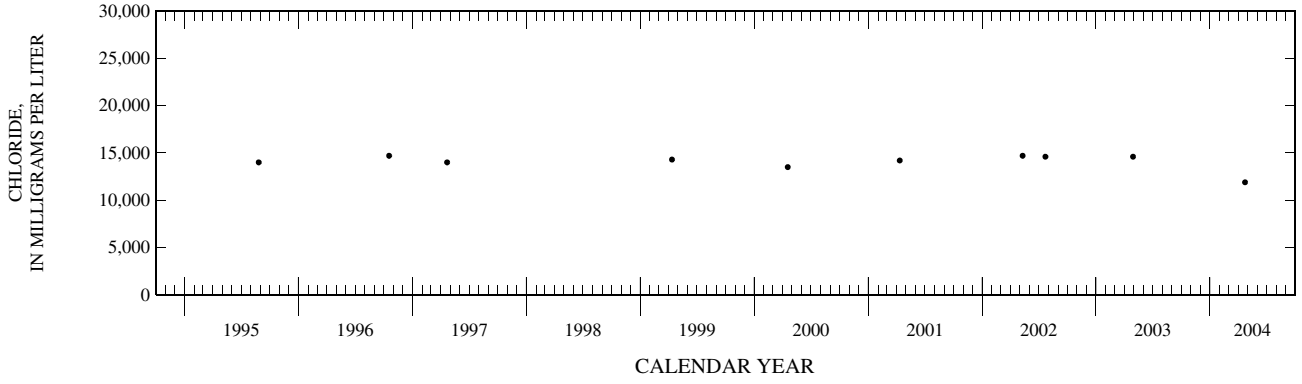
PERIOD OF RECORD.--August 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.34 ft NGVD, Aug. 4, 2004; lowest, 0.29 ft below NGVD, May 10, 2002.

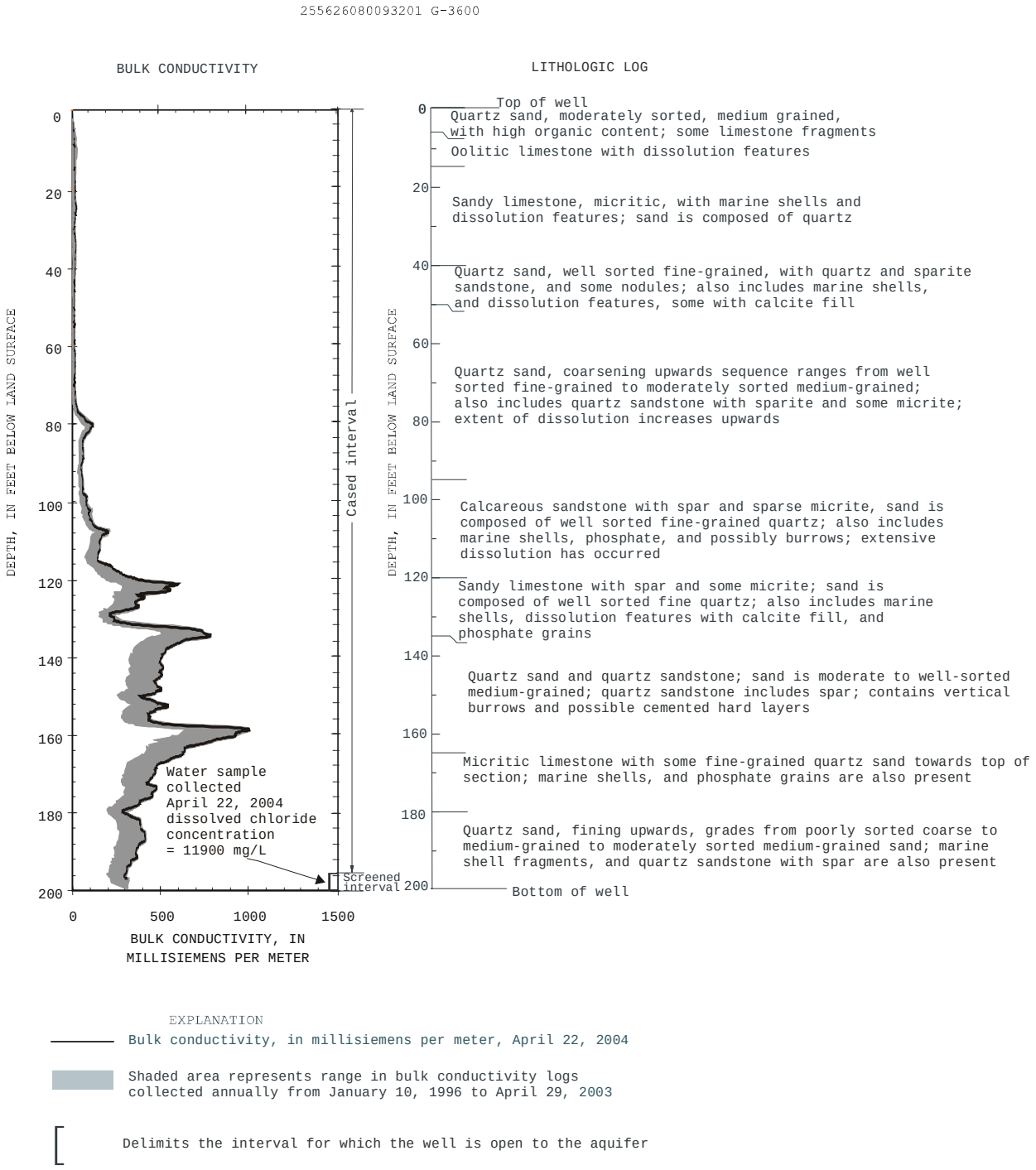
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
23...	0740	.68	--	--
JAN				
27...	0811	.30	--	--
APR				
22...	1321	.24	39,200	11,900
AUG				
04...	0802	1.34	--	--





WELL NUMBER.--255626080093201. Local Number G 3600. USGS Observation Well near North Miami Beach, FL-Continued



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--255707080255001. Local Number G 1637. USGS Observation Well near Hialeah, FL.

LOCATION.--Lat 25°57'07", long 80°25'50", in SW $^1/_4$ NE $^1/_4$ sec.3, T.52 S., R.39 E., Hydrologic Unit 03090202, at entrance of Opa-Locka West Training Airport, 0.2 mi northeast of the intersection of U.S. Highway 27 and State Road 997 (Krome Avenue), and 10 mi northwest of Hialeah.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 26 ft, cased to 26 ft.

REVISED RECORDS.--WDR FL-85-2B:1979.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 8.90 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 5.9 ft above NGVD.

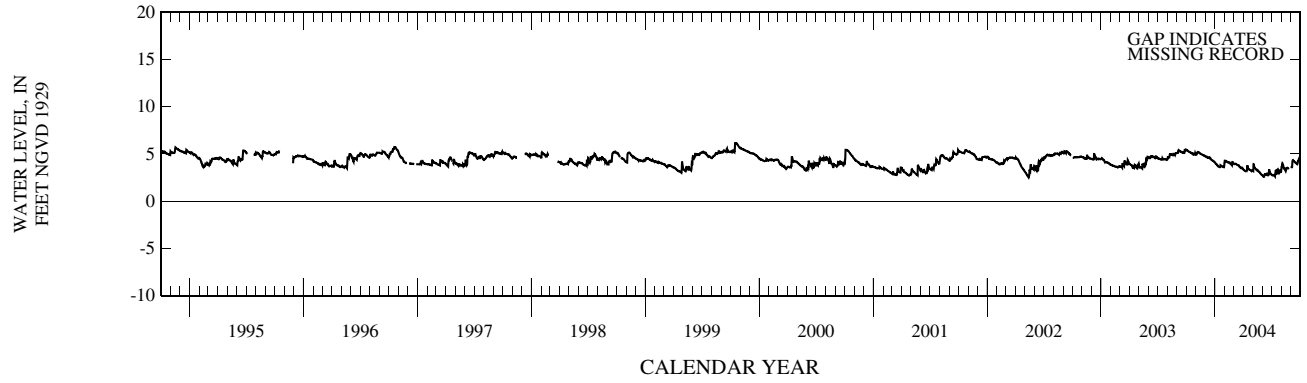
REMARKS.--Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--September 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 6.21 ft NGVD, Oct. 15, 1999; lowest, 2.19 ft NGVD, Apr. 26, 1973.

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	5.32	5.16	4.70	3.92	4.21	3.97	3.22	3.63	2.60	2.77	3.91	4.22
10	5.22	5.17	4.61	3.71	4.12	3.89	3.20	3.42	2.86	2.67	3.49	4.23
15	5.14	5.02	4.60	3.61	4.12	3.81	3.47	3.24	2.99	3.17	3.27	4.06
20	5.02	4.92	4.37	3.75	3.93	3.60	3.33	3.14	2.78	3.38	3.54	3.91
25	4.97	4.85	4.28	3.64	4.15	3.55	3.24	2.93	3.06	3.04	---	4.37
EOM	4.99	4.75	4.11	4.00	3.98	3.39	3.22	2.74	2.81	3.24	---	4.75
MAX	5.42	5.20	4.72	4.06	4.29	3.97	3.79	3.89	3.38	3.38	---	4.76



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--255709080223701. Local Number G 970. USGS Observation Well near Miami Lakes, FL.

LOCATION.--Lat 25°57'09", long 80°22'37", in SE $^1/_4$ NE $^1/_4$ sec.6, T.52 S., R.40 E., Hydrologic Unit 03090202, 0.5 mi south of Snake Creek, 3.5 mi east of U.S. Highway 27, and 4.7 mi west of Miami Lakes.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 15 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of base, 10.75 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 3.8 ft above NGVD.

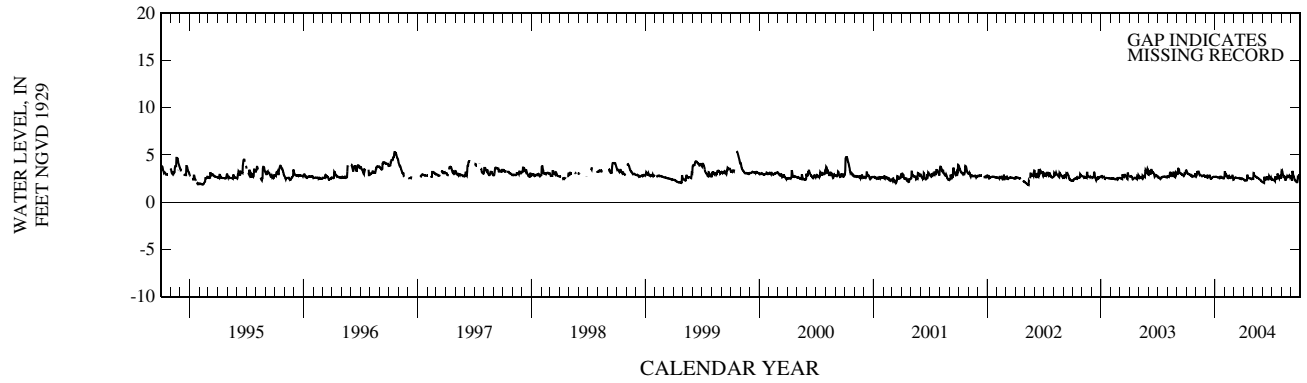
REMARKS.--Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--January 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 5.55 ft NGVD, Nov. 22, 1959; minimum water level recorded, 1.35 ft NGVD, May 31, 1962.

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	3.02	3.14	2.78	2.68	2.89	2.59	2.29	2.81	2.05	2.39	3.02	3.30
10	2.94	3.11	2.78	2.62	2.58	2.58	2.31	2.71	2.42	2.28	2.73	2.65
15	2.81	2.88	2.80	2.53	2.80	2.56	2.46	2.59	2.55	2.47	2.45	2.28
20	2.80	2.75	2.53	2.67	2.59	2.53	2.54	2.48	2.41	2.95	2.68	2.11
25	2.76	2.82	2.65	2.58	2.82	2.53	2.50	2.33	2.59	2.74	2.78	2.55
EOM	2.93	2.60	2.67	2.64	2.45	2.46	2.49	2.16	2.48	2.89	2.70	2.86
MAX	3.35	3.21	2.89	2.78	3.19	2.61	2.91	3.08	2.77	3.04	3.29	3.30



MIAMI-DADE COUNTY—Continued

WELL NUMBER.--263630080264801. Local Number G 1362. USGS Observation Well near Perrine, FL.

LOCATION.--Lat 25°36'37", long 80°26'47", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.33, T.55 S., R.39 E., Hydrologic Unit 03090202, 30 ft east of SW 157th Avenue and SW 170th Street, 1.0 mi north of Eureka Drive, 2.0 mi east of State Road 997 (Krome Avenue), and 5 mi west of Perrine.

AQUIFER.--Biscayne limestone aquifer of the Pleistocene Age, Geologic Unit 112 BSCNN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 33 ft, cased to 11 ft.

REVISED RECORDS.--WDR FL-85-2B:1980.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 13.56 ft above National Geodetic Vertical Datum of 1929. Prior to June 6, 1996, measuring point was top of recorder shelf, 14.08 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 11.5 ft above NGVD.

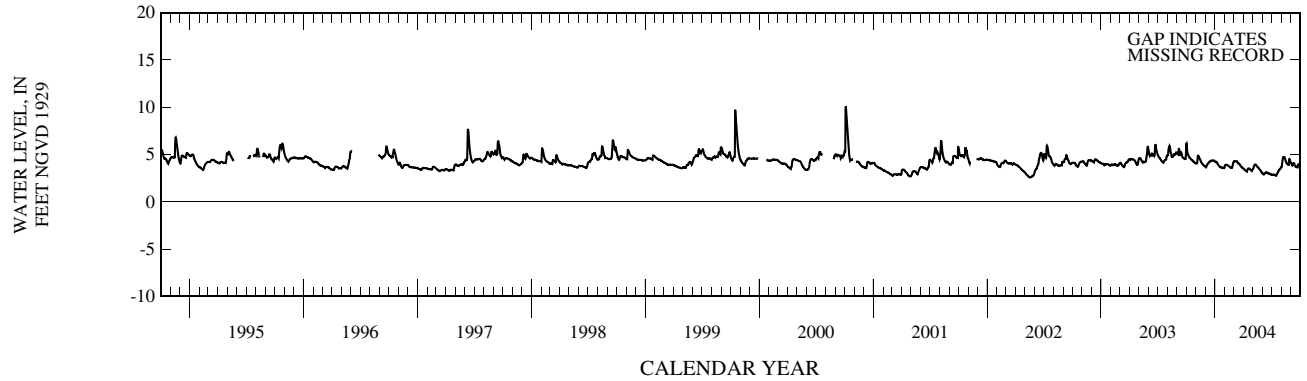
REMARKS.--Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey. The well was originally open to the aquifer from 11 to 33 ft. The open interval has collapsed or become obstructed at a depth of 17 ft.

PERIOD OF RECORD.--November 1968 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 10.09 ft NGVD, Oct. 4, 2000; lowest, 0.29 ft NGVD, May 15, 1971.

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	5.12	4.27	3.79	4.22	3.93	4.31	3.39	3.83	2.89	2.86	4.57	3.84
10	4.75	4.76	4.10	3.97	3.86	4.29	3.25	3.95	3.05	2.85	4.73	4.09
15	4.55	4.41	4.26	3.75	3.75	4.06	3.50	3.72	3.12	2.77	4.29	3.74
20	4.36	4.08	4.37	3.65	3.61	3.98	3.52	3.57	3.00	3.10	4.00	3.67
25	4.22	3.86	4.38	3.60	3.65	3.69	3.35	3.34	2.96	3.41	4.50	3.95
EOM	4.08	3.75	4.30	3.60	4.23	3.55	3.41	3.07	2.90	3.65	4.12	4.21
MAX	6.17	4.88	4.38	4.24	4.23	4.31	3.54	3.96	3.13	3.65	4.75	4.21



MIAMI-DADE COUNTY—Continued

MISCELLANEOUS WATER-LEVEL MEASUREMENTS

Station number	Local identifier	Latitude	Longitude	Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
253202080232601 G -3162		25 31 32 N	080 23 25 W	10-31-03	1355	--	3080	940
		25 31 32 N	080 23 25 W	04-23-04	1103	--	3220	940
253652080183701 G - 939		25 36 52 N	080 18 37 W	10-23-03	1330	--	7140	2500
		25 36 52 N	080 18 37 W	04-16-04	1300	--	7500	2400
253819080183201 G -3610		25 38 19 N	080 18 32 W	10-23-03	1420	--	544	56.0
		25 38 19 N	080 18 32 W	04-16-04	1235	--	554	50.0
253831080180204 G -3313C		25 38 31 N	080 18 02 W	10-24-03	1350	--	12100	4200
		25 38 31 N	080 18 02 W	04-16-04	1125	--	10600	2700
254106080174601 G -1009B		25 41 06 N	080 17 46 W	10-24-03	1235	--	475	36.0
		25 41 06 N	080 17 46 W	04-16-04	1028	--	488	40.0
254156080172101 G -3607		25 41 56 N	080 17 21 W	10-24-03	1132	--	625	70.0
		25 41 56 N	080 17 21 W	01-26-04	1245	--	652	66.0
		25 41 56 N	080 17 21 W	04-16-04	0954	--	628	70.0
		25 41 56 N	080 17 21 W	08-04-04	1125	--	683	70.0
254341080174001 G -3606		25 43 41 N	080 17 40 W	10-24-03	1054	--	578	44.0
		25 43 41 N	080 17 40 W	01-26-04	1345	--	588	44.0
		25 43 41 N	080 17 40 W	04-16-04	0924	--	588	42.0
		25 43 41 N	080 17 40 W	08-04-04	1056	--	631	50.0
254828080161501 G - 354		25 48 28 N	080 16 15 W	11-05-03	0859	1.68	547	70.0
		25 48 28 N	080 16 15 W	02-03-04	0930	1.83	560	68.0
		25 48 28 N	080 16 15 W	04-13-04	1018	1.54	530	64.0
		25 48 28 N	080 16 15 W	08-02-04	0911	2.19	531	64.0
254908080125201 G -3603		25 49 08 N	080 12 52 W	10-24-03	0900	--	621	60.0
		25 49 08 N	080 12 52 W	04-16-04	0810	--	623	58.0
255222080123001 G -3224		25 52 22 N	080 12 30 W	11-05-03	0938	--	609	58.0
		25 52 22 N	080 12 30 W	04-14-04	0920	--	573	52.0
255315080111501 F - 279		25 53 15 N	080 11 15 W	11-05-03	1001	--	9780	3150
		25 53 15 N	080 11 15 W	04-14-04	0950	--	9600	3000
255350080105801 G - 894		25 53 50 N	080 10 58 W	11-05-03	1103	--	474	36.0
		25 53 50 N	080 10 58 W	04-14-04	1043	--	429	30.0

Palm Beach County

VOLUME 2B: SOUTH FLORIDA

Key to site locations on figure # 20

PALM BEACH COUNTY

Index Number	Site Number	Well Name	Page Number
1	264005080233501	PB 99	572
2	263328080085201	PB 445	566
3	262114080054001	PB 491	547
4	264230080120501	PB 561	575
5	265812080053901	PB 565	585
6	263524080124301	PB 683	568
7	264208080192201	PB 685	574
8	265633080203001	PB 689	584
9	262218080070101	PB 732	551
10	264123080053801	PB 809	573
11	265106080241402	PB 831	580
12	262435080042904	PB 948	555
13	263044080035102	PB 1195	562
14	262313080044401	PB 1457	552
15	262317080074601	PB 1491	553
16	263255080133601	PB 1576	565
17	263021080070102	PB 1628	561
18	263656080033502	PB 1639	571
19	265233080054001	PB 1642	581
20	262410080090801	PB 1661	554
21	264839080115001	PB 1662	578
22	262209080044702	PB 1669	550
23	262159080054201	PB 1680	549
24	262130080080701	PB 1684	548
25	262033080064001	PB 1686	546
26	262755080040101	PB 1707	558
27	262713080041901	PB 1710	557
28	262803080041101	PB 1714	559
29	263453080031501	PB 1717	567
30	263633080031401	PB 1723	569
31	264643080033401	PB 1726	576
32	264717080033501	PB 1727	577
33	265550080070701	PB 1732	582
34	265611080080201	PB 1733	583
35	264858080044801	PB 1734	579
36	263053080034401	PB 1736	564

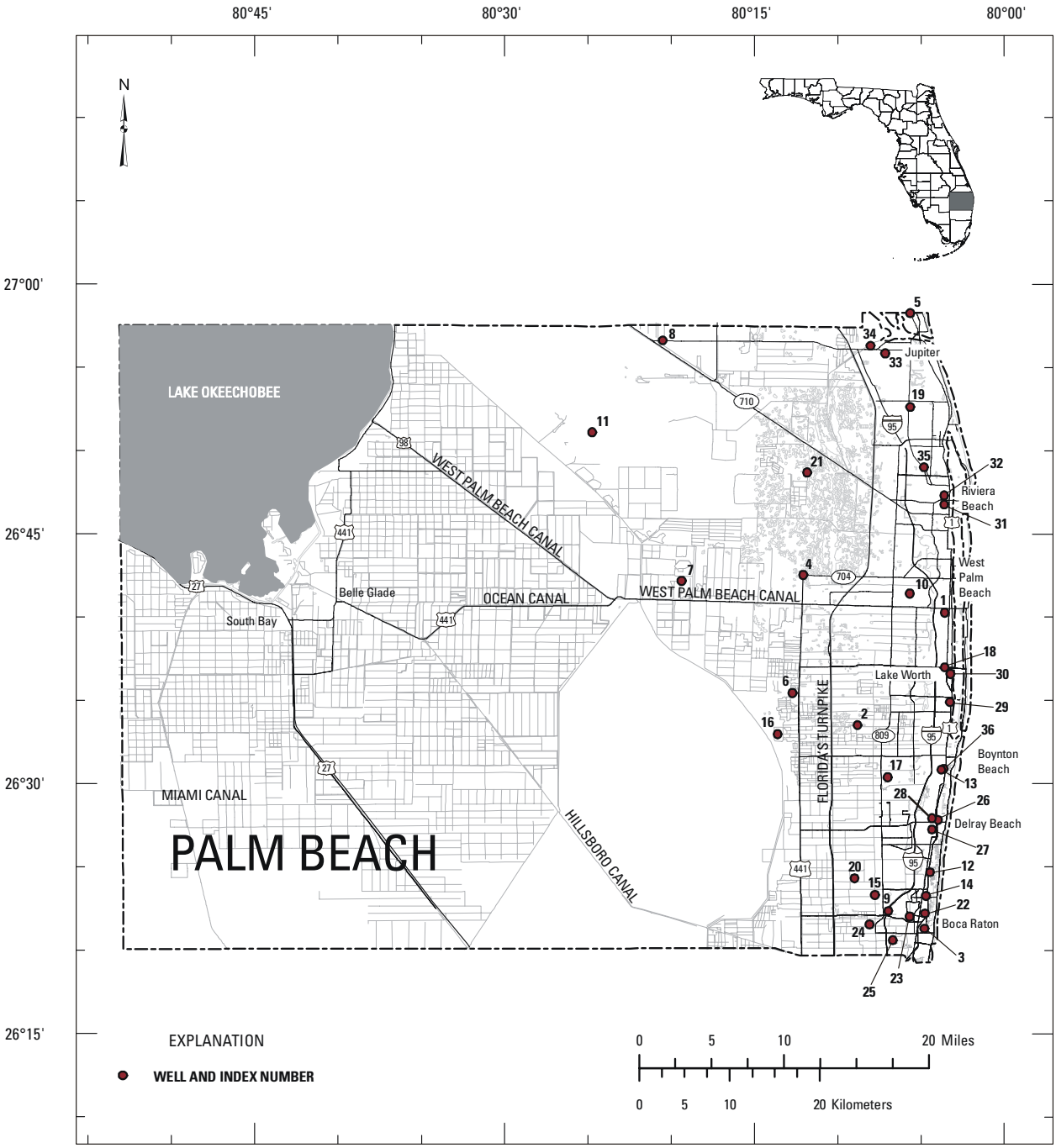


Figure 20. Location of wells in Palm Beach County

PALM BEACH COUNTY

WELL NUMBER.--262033080064001. Local Number PB 1686. USGS Observation Well near Boca Raton, FL.

LOCATION.--Lat 26°20'34", long 80°06'41", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.25, T.47 S., R.42 E., Hydrologic Unit 03090202, 10 ft west of SW 12th Avenue, approximately 100 yards south of West Camino Real Road, 0.30 mi east of U.S. Interstate 95 in Boca Raton.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2.0 in., depth 131 ft, cased to 126 ft, screened 126 to 131 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 11.04 ft above National Geodetic Vertical Datum of 1929. Prior to October 27, 2003, top of casing was 11.27 ft above NGVD, but considered to be 11.28 ft above NGVD. Prior to October 1994, top of casing was considered to be 20.00 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 11.3 ft above NGVD.

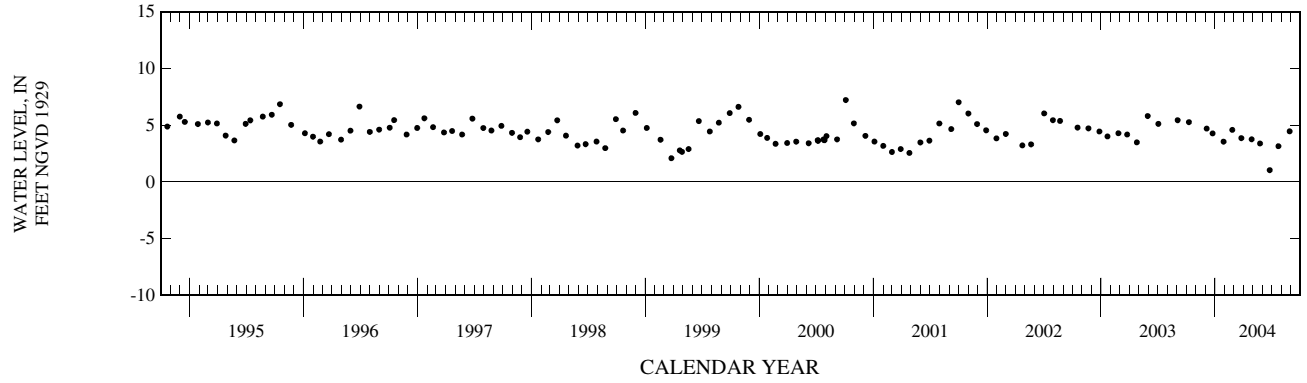
REMARKS.--Well also used for salinity monitoring. The figures of water level as elevation, in feet NGVD, prior to October 1994 are in error. Corrected records, based on a measuring point elevation of 11.28 ft above NGVD, are in files of the U.S. Geological Survey. Because the instrument precision is 0.01 ft, water-level records prior to August 2003 have not been corrected to the 11.27 ft measuring point. The station was damaged and reconstructed in August 2003. Protective meter box installed October 27, 2003. See DATUM.

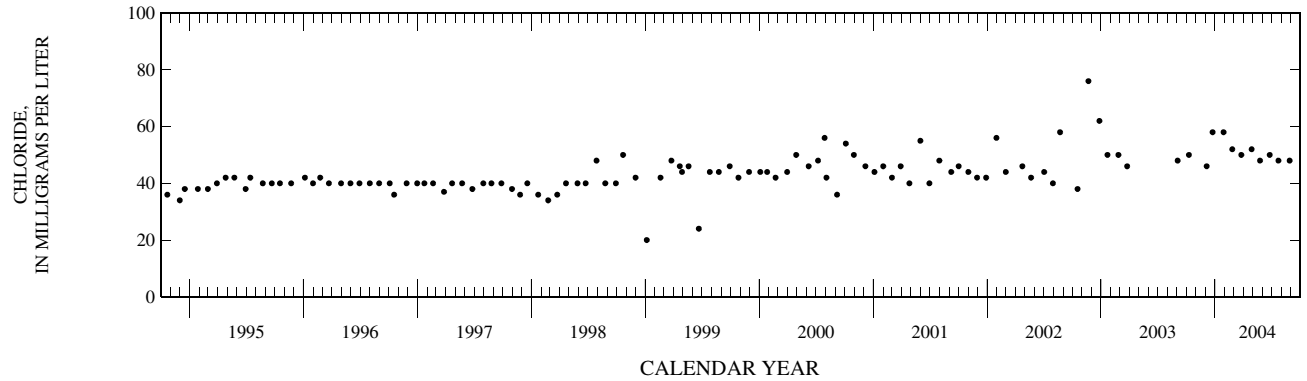
PERIOD OF RECORD.--October 1993 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.22 ft NGVD, Oct. 4, 2000; lowest, 1.04 ft NGVD, June 24, 2004.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
09...	1032	5.27	544	50.0
DEC				
05...	1408	4.70	517	46.0
24...	1043	4.28	535	58.0
JAN				
28...	1500	3.55	540	58.0
FEB				
25...	1358	4.59	521	52.0
MAR				
25...	1457	3.86	534	50.0
APR				
27...	1543	3.76	532	52.0
MAY				
24...	1423	3.39	517	48.0
JUN				
24...	1423	1.04	519	50.0
JUL				
22...	1430	3.15	516	48.0
AUG				
27...	1351	4.46	516	48.0





PALM BEACH COUNTY—Continued

WELL NUMBER.--262114080054001. Local Number PB 491. USGS Observation Well in Boca Raton, FL.

LOCATION.--Lat 26°21'15", long 80°04'49", in NE $^1/_4$ SE $^1/_4$ SW $^1/_4$ sec.20, T.47 S., R.43 E., Hydrologic Unit 03090202, near the corner of NE 3rd Court and NE 4th Street, 0.25 mi north and 0.4 mi east of the intersection of Palmetto Park Road and U.S. Highway 1. (Corrected).

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2.0 in., depth 207 ft, cased to 202 ft, screened 202 to 207 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 8.34 ft above National Vertical Geodetic Datum of 1929. Prior to October 1981, top of casing was 8.33 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 8.6 ft above NGVD.

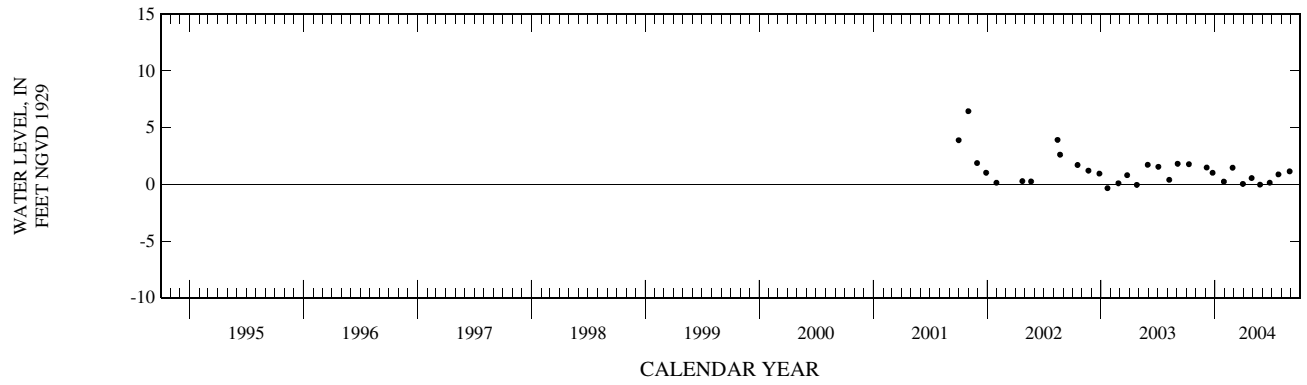
REMARKS.--Well is also used for salinity monitoring. The well was originally open to the aquifer from 202 to 207 ft. The well is obstructed or collapsed at a depth of 182 ft.

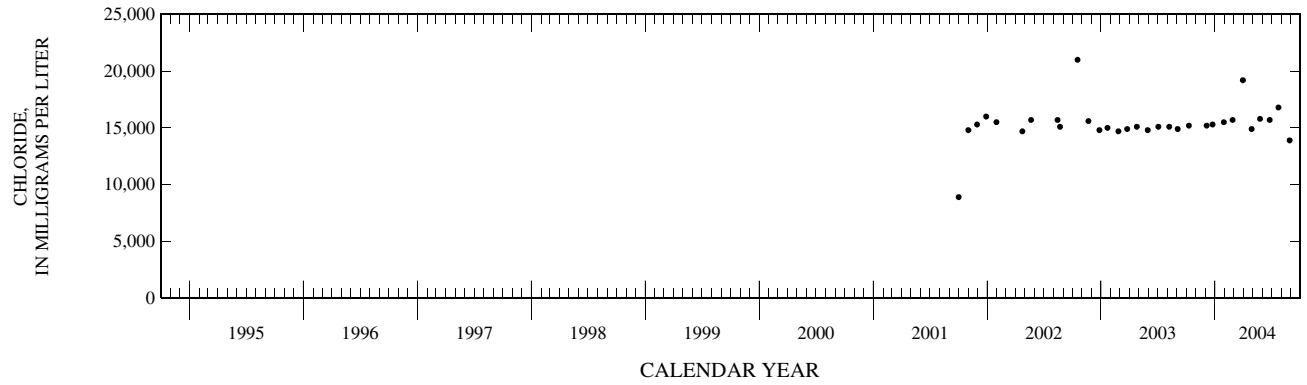
PERIOD OF RECORD.--May 1974 to May 1982 (semiannual), November 1982 to October 1993, October 2001 to September 2004. Discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.44 ft NGVD, Nov. 1, 2001; lowest, 0.90 ft below NGVD, May 7, 1974.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
09...	1158	1.77	40,700	15,200
DEC				
05...	1432	1.48	40,400	15,200
24...	1043	1.01	38,500	15,300
JAN				
29...	1059	.24	41,900	15,500
FEB				
26...	1443	1.46	41,300	15,700
MAR				
30...	1048	.03	41,700	19,200
APR				
27...	1616	.55	40,200	14,900
MAY				
24...	1500	-.03	42,000	15,800
JUN				
24...	1438	.14	42,000	15,700
JUL				
22...	1520	.87	41,000	16,800
AUG				
27...	1436	1.14	40,700	13,900





PALM BEACH COUNTY—Continued

WELL NUMBER.--262130080080701. Local Number PB 1684. USGS Observation Well near Boca Raton, FL.

LOCATION.--Lat 26°21'30", long 80°08'07", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.23, T.47 S., R.42 E., Hydrologic Unit 03090202, 35 ft south of Verde Trail, 0.10 mi east of St. Andrews Road, 0.5 mi south of Glades Road and 0.6 mi west of Military Trail.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4.0 in., depth 40 ft, cased to 35 ft, screened 35 to 40 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 18.85 ft above National Geodetic Vertical Datum of 1929. Prior to October 1994, top of base was considered to be 20.00 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 16.8 ft above NGVD. (Corrected).

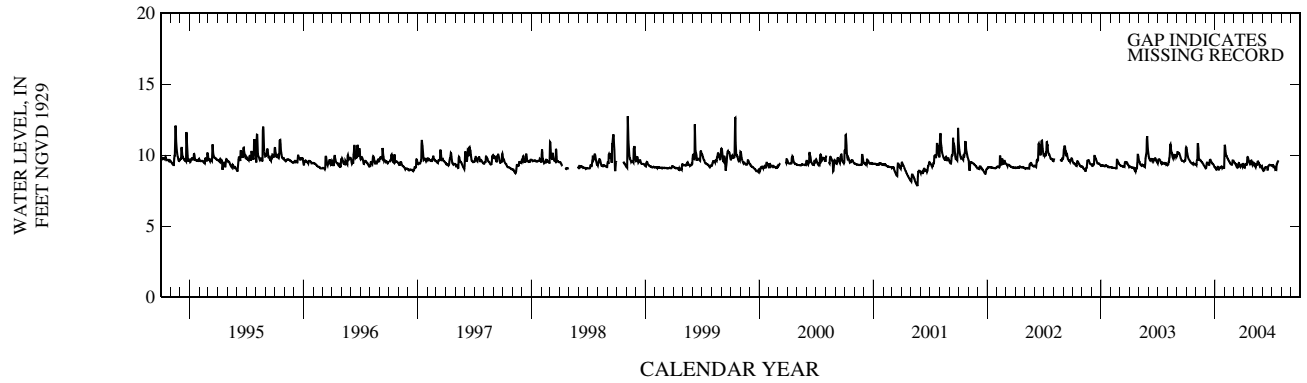
REMARKS.--The figures of water levels as elevation, in feet NGVD, prior to October 1994 are in error. Corrected records are in files of the U.S. Geological Survey. See DATUM.

PERIOD OF RECORD.--October 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 12.75 ft NGVD, Nov. 5, 1998; lowest, 7.82 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	9.98	9.69	9.40	8.99	10.02	9.44	9.12	9.38	8.91	9.31	---	---
10	9.67	9.60	9.36	9.19	9.77	9.35	9.32	9.16	9.17	9.19	---	---
15	9.48	9.63	9.66	9.07	9.57	9.16	9.85	9.34	9.16	8.97	---	---
20	9.40	9.51	9.53	9.16	9.38	9.27	9.48	9.46	9.26	9.53	---	---
25	9.40	9.34	9.38	9.13	9.44	9.32	9.60	9.26	9.31	---	---	---
EOM	9.37	9.14	9.16	9.95	9.61	9.39	9.46	9.15	9.28	---	---	---
MAX	10.53	10.79	9.68	9.95	10.73	9.57	9.86	9.55	9.32	---	---	---



PALM BEACH COUNTY—Continued

WELL NUMBER.--262159080054201. Local Number PB 1680. USGS Observation Well in Boca Raton, FL.

LOCATION.--Lat 26°21'59", long 80°05'42", in SW ¼ SW ¼ SE ¼ sec.18, T.47 S., R.43 E., Hydrologic Unit 03090202, 100 yards east of El Rio Canal at NW 17th Street, 0.25 mi north of Glades Road, 1.5 mi east of U.S. Interstate 95.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4.0 in., depth 40 ft, cased to 35 ft, screened 35 to 40 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 10.79 ft above National Geodetic Vertical Datum of 1929. Prior to October 2004, top of base was 10.80 ft above NGVD. From September 1993 to July 1998, top of base was 10.81 ft above NGVD. Prior to October 1994, top of base was considered to be 20.00 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 8.7 ft above NGVD. (Corrected).

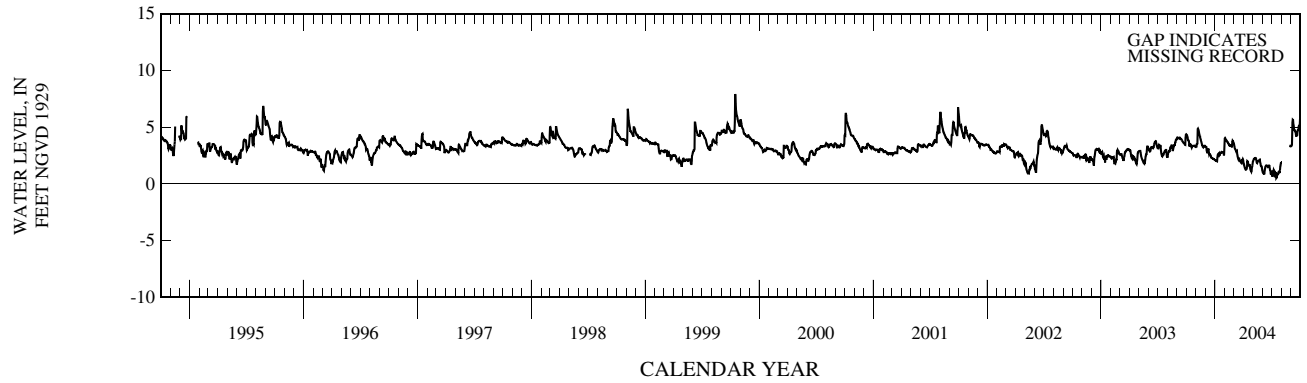
REMARKS.--The figures of water levels as elevation, in feet NGVD, prior to October 1994 are in error. Corrected records are in files of the U.S. Geological Survey. See DATUM.

PERIOD OF RECORD.--September 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.92 ft NGVD, Oct. 15, 1999; lowest, 0.52 ft NGVD, July 15, 2004.

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	4.07	3.55	2.92	2.03	3.87	3.08	1.46	2.23	1.04	1.08	---	5.42
10	3.47	4.55	3.06	2.60	3.66	2.89	1.29	2.29	1.50	0.67	---	4.85
15	3.46	4.03	2.63	2.54	3.46	2.24	1.84	1.83	1.61	0.52	---	4.56
20	3.32	3.44	2.30	2.79	3.38	2.06	1.68	2.04	1.56	0.86	---	4.31
25	3.35	3.27	2.24	2.82	3.70	1.84	1.15	1.86	1.26	1.06	---	5.04
EOM	3.26	3.32	2.11	3.20	3.66	2.12	1.79	1.24	1.08	1.85	3.34	5.61
MAX	4.35	4.89	3.31	3.20	4.05	3.58	2.01	2.29	1.63	1.85	---	5.66



PALM BEACH COUNTY—Continued

WELL NUMBER.--262209080044702. Local Number PB 1669. USGS Observation Well in Boca Raton, FL.

LOCATION.--Lat 26°22'09", long 80°04'47", in NW $^1/_4$ SW $^1/_4$ SE $^1/_4$ sec.17, T.47 S., R.43 E., Hydrologic Unit 03090202, 20 ft south and 4 ft east of the junction of NE 5th Avenue and NE 4th Way, 0.1 mi north of NE 20th Street and 0.2 mi west of U.S. Highway 1, in downtown Boca Raton.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2.0 in., depth 131 ft, cased to 131 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 11.34 ft above National Geodetic Vertical Datum of 1929. Prior to October 1994, top of casing was considered to be 20.00 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 11.6 ft above NGVD.

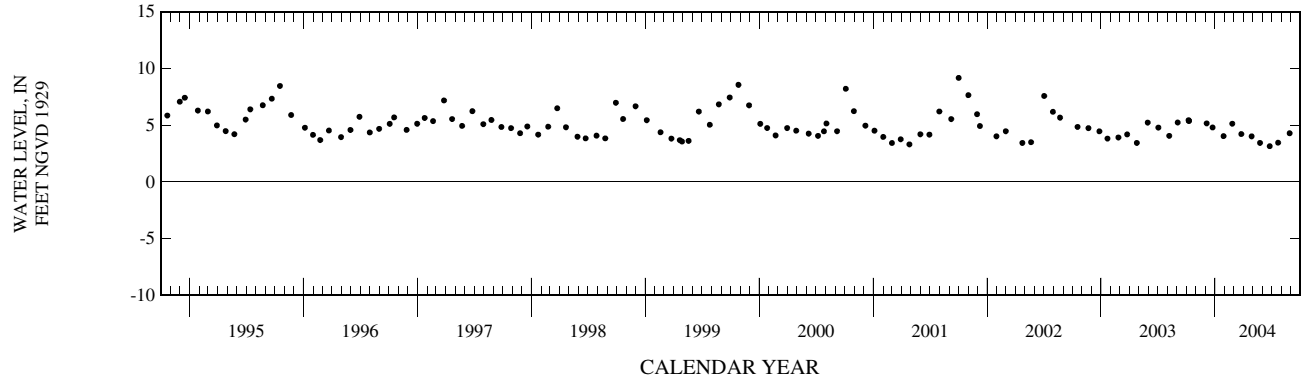
REMARKS.--Well also used for salinity monitoring. The figures of water levels as elevation, in feet NGVD, prior to October 1994 are in error. Corrected records are in files of the U.S. Geological Survey. See DATUM. The well was originally open to the aquifer at a depth of 131 ft. The well is obstructed at a depth of 108 ft by sediment heaving into well. Well remains in communication with aquifer.

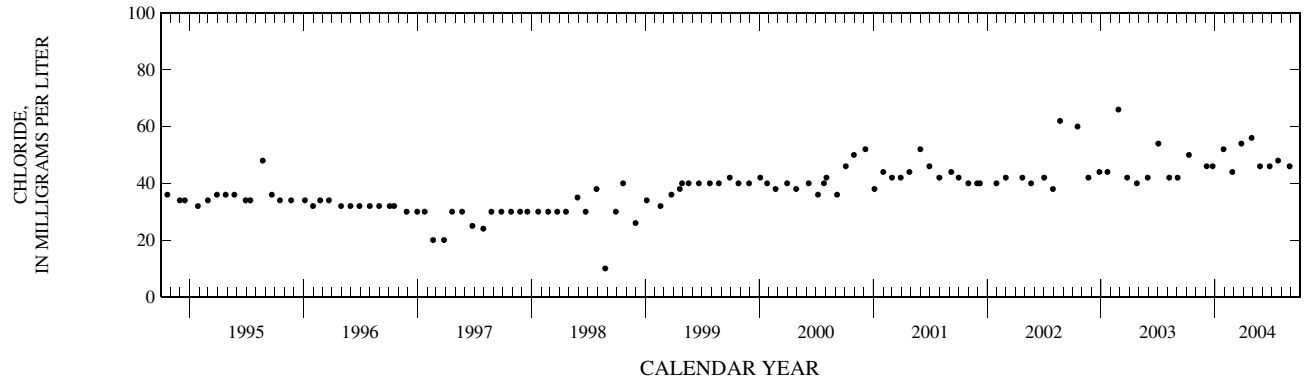
PERIOD OF RECORD.--October 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.17 ft NGVD, Oct. 1, 2001; lowest, 3.15 ft NGVD, June 24, 2004.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
08...	1342	5.44	--	--
09...	1219	5.38	473	50.0
DEC				
05...	1247	5.16	479	46.0
24...	1140	4.80	475	46.0
JAN				
28...	1310	4.04	476	52.0
FEB				
25...	1242	5.13	476	44.0
MAR				
25...	1248	4.22	479	54.0
APR				
27...	1331	4.02	449	56.0
MAY				
24...	1307	3.44	486	46.0
JUN				
24...	1251	3.15	486	46.0
JUL				
21...	1403	3.46	498	48.0
AUG				
27...	1222	4.29	458	46.0





PALM BEACH COUNTY—Continued

WELL NUMBER.--262218080070101. Local Number PB 732. USGS Observation Well in Boca Raton, FL.

LOCATION.--Lat 26°22'18", long 80°06'58", in NE $^1/_4$ SW $^1/_4$ sec.13, T.47 S., R.42 E., Hydrologic Unit 03090202, 25 ft east of Airport Road, 0.35 mi north of Glades Road.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in. to 19 ft, 2 in. from 19 to 100 ft, depth 100 ft, cased to 100 ft, open end.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 13.43 ft above National Geodetic Vertical Datum of 1929. From September 1990 to September 1993 top of base was considered to be 13.38 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 12.3 ft above NGVD. (Corrected).

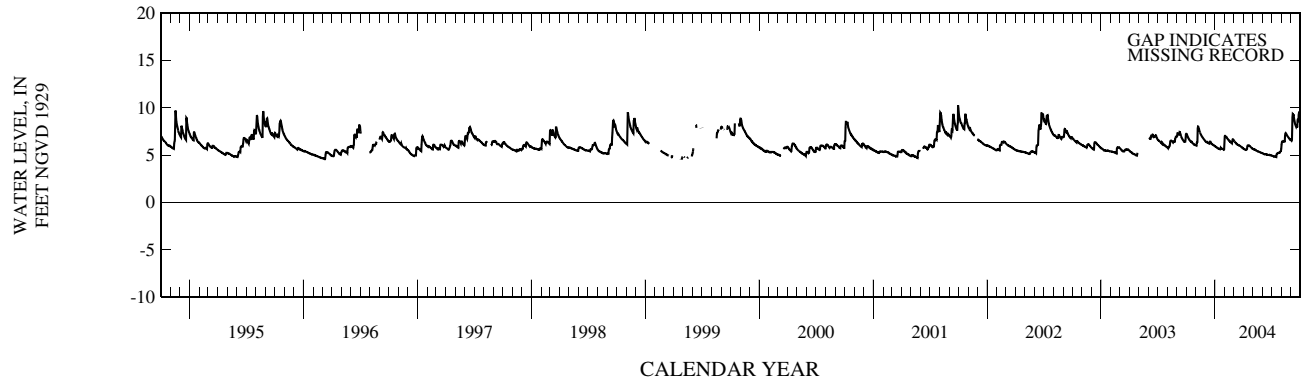
REMARKS.--Because the difference in reported measuring points is equivalent to the estimate of error for the measurement, the figures of water levels, in feet NGVD, from September 1990 to September 1993, have not been corrected to the 13.43 ft measuring point elevation.

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

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 10.30 ft NGVD, Sept. 29, 2001; lowest, 3.43 ft NGVD, May 6, 1981.

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	7.00	6.39	6.39	5.85	6.96	6.38	5.61	5.64	5.14	4.90	6.47	9.02
10	6.67	7.80	6.29	5.73	6.73	6.21	5.58	5.53	5.12	4.86	6.47	8.91
15	6.48	7.31	6.43	5.66	6.54	6.08	6.04	5.44	5.07	4.82	7.31	8.16
20	6.31	6.97	6.24	5.75	6.38	5.99	6.00	5.37	5.03	5.22	7.03	7.94
25	6.14	6.73	6.11	5.66	6.48	5.87	5.85	5.30	5.02	5.26	6.79	9.24
EOM	6.05	6.51	5.97	6.28	6.62	5.72	5.70	5.23	4.97	5.67	6.59	9.58
MAX	7.27	8.03	6.49	6.28	7.04	6.56	6.05	5.68	5.22	5.67	7.31	9.58



PALM BEACH COUNTY—Continued

WELL NUMBER.--262313080044401. Local Number PB 1457. USGS Observation Well in Boca Raton, FL.

LOCATION.--Lat 26°23'13", long 80°04'44", in SW $^1/_4$ SW $^1/_4$ NE $^1/_4$ sec.8, T.47 S., R.43 E., Hydrologic Unit 03090202, approximately 0.05 mi north and 0.1 mi west of the intersection of Spanish River Boulevard and U.S. Highway 1.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 193 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 15.97 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 16.0 ft above NGVD.

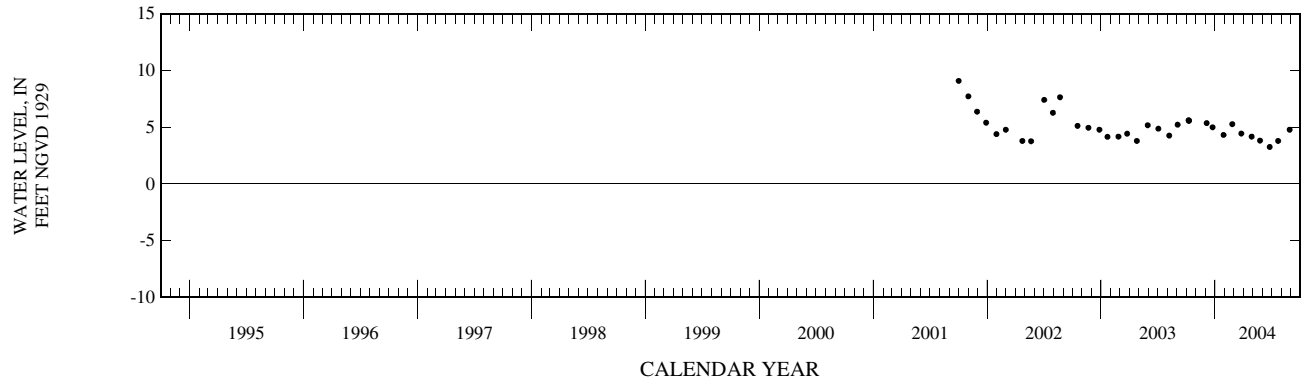
REMARKS.--Well also used for salinity monitoring.

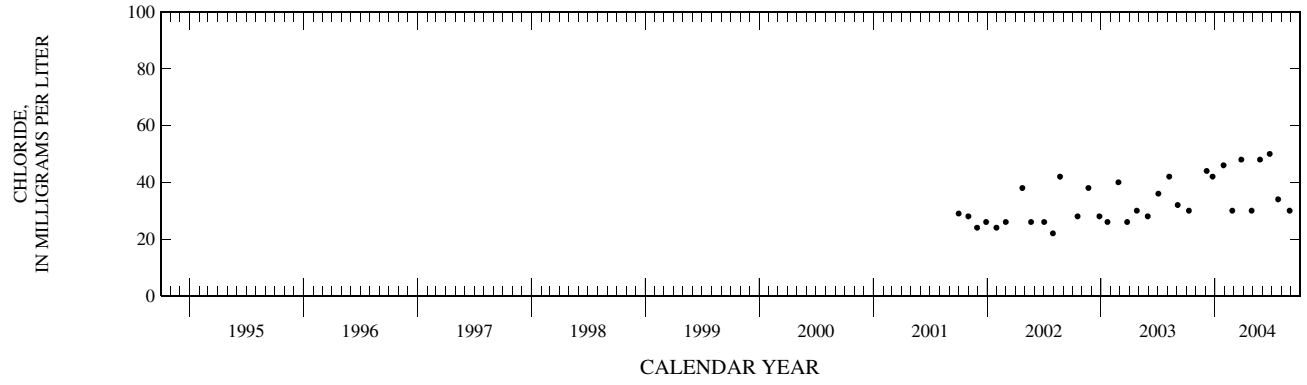
PERIOD OF RECORD.--April 1983 to October 1993, October 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.08 ft NGVD, Oct. 1, 2001; lowest, 2.24 ft NGVD, Mar. 29, 1990.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
08...	1324	5.62	--	--
09...	1242	5.57	414	30.0
DEC				
05...	1215	5.36	427	44.0
24...	1209	4.99	429	42.0
JAN				
28...	1236	4.32	435	46.0
FEB				
25...	1204	5.27	437	30.0
MAR				
25...	1212	4.44	446	48.0
APR				
27...	1252	4.17	423	30.0
MAY				
24...	1232	3.82	440	48.0
JUN				
24...	1235	3.26	440	50.0
JUL				
21...	1328	3.79	420	34.0
AUG				
27...	1127	4.78	434	30.0





PALM BEACH COUNTY—Continued

WELL NUMBER.--262317080074601. Local Number PB 1491. USGS Observation Well in Boca Raton, FL.

LOCATION.--Lat 26°23'17", long 80°07'46", in SW ¼ NE ¼ sec.11, T.47 S., R.42 E., Hydrologic Unit 03090202, on the east bank of E-3 canal approximately 0.5 mi south of NW 51st Street (Yamato Road) at Boca Raton.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 138 ft, cased to 88 ft, screened 88 to 138 ft.

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

DATUM.--Measuring point: Top of casing, 18.20 ft above National Geodetic Vertical Datum of 1929. Prior to March 7, 2000, measuring point was top of base, 20.31 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 18.7 ft above NGVD.

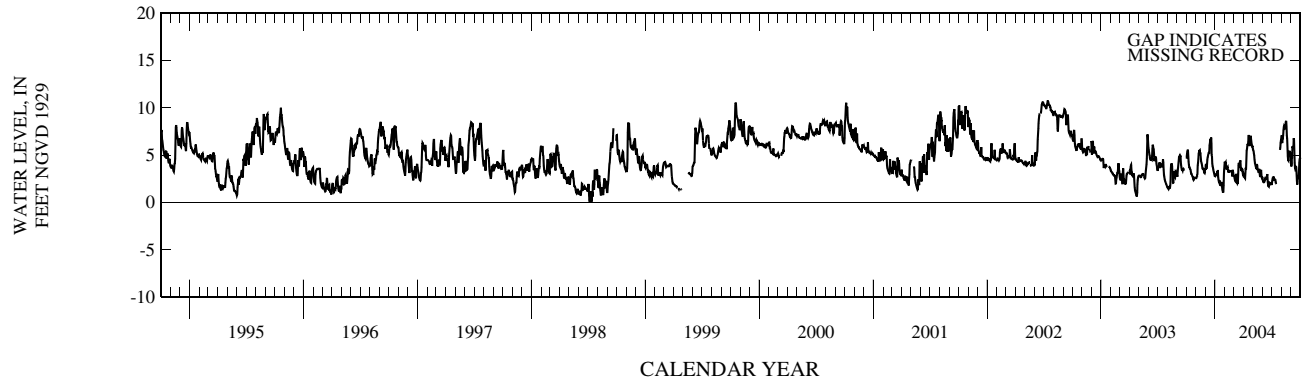
REMARKS.--The well is obstructed or collapsed at a depth of 84 ft as of September 18, 2001.

PERIOD OF RECORD.--April 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 10.72 ft NGVD, July 13, 14, 2002; lowest, 3.04 ft below NGVD, Apr. 14, 1989.

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	5.51	2.96	3.78	2.91	3.88	2.32	2.62	4.98	2.14	2.66	6.83	5.93
10	3.73	5.25	5.02	3.34	3.76	2.72	4.72	3.89	2.64	2.43	8.04	6.61
15	3.25	5.16	6.25	2.35	3.35	3.11	6.10	3.88	2.82	1.93	8.52	3.59
20	2.77	3.91	6.21	1.98	3.33	4.25	6.25	3.14	1.72	---	5.65	1.91
25	2.45	3.48	3.71	1.22	2.76	3.41	6.75	2.85	1.93	---	5.26	2.61
EOM	2.58	3.63	2.80	3.84	2.98	2.92	5.92	2.65	1.86	6.71	4.56	4.75
MAX	---	5.54	6.87	3.84	4.33	4.39	7.14	5.63	3.01	---	8.64	6.79



PALM BEACH COUNTY—Continued

WELL NUMBER.--262410080090801. Local Number PB 1661. USGS Observation Well in Boca Raton, FL.

LOCATION.--Lat 26°24'16", long 80°08'59", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.3, T.47 S., R.42 E., Hydrologic Unit 03090202, at sewage lift station near junction of NW 31st Way and NW 61st Street within Seasons of Boca Raton development, off Jog Road, 0.10 mi south of Clint Moore Road, in Boca Raton.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 25 ft, cased to 15 ft, screened from 15 to 25 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 23.10 ft above National Geodetic Vertical Datum of 1929.

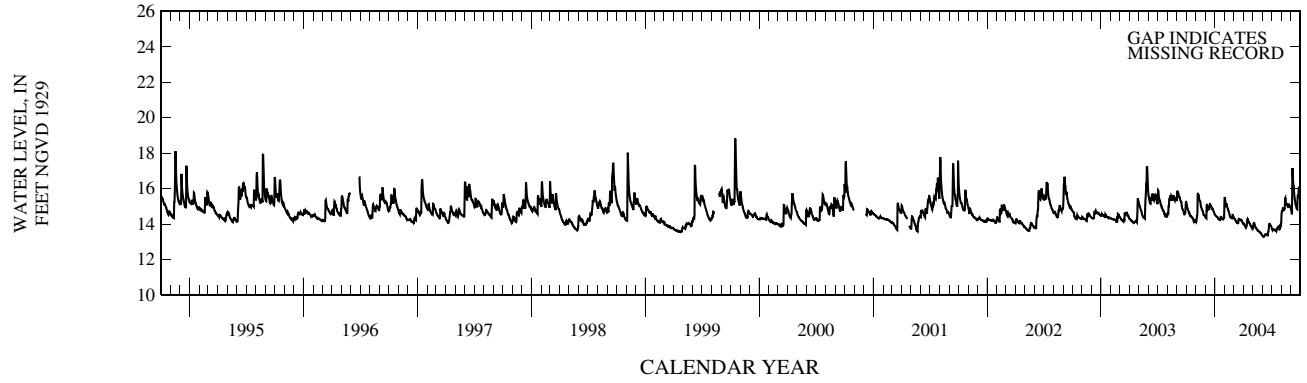
LAND-SURFACE DATUM.--Land surface is approximately 20.1 ft above NGVD.

PERIOD OF RECORD.--December 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 18.83 ft NGVD, Oct. 15, 1999; lowest, 13.28 ft NGVD, June 4, 5, 2004.

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	14.86	14.59	15.08	14.44	15.09	14.25	13.93	14.07	13.28	13.72	14.90	17.16
10	14.65	15.49	14.86	14.37	14.89	14.11	13.83	13.83	13.43	13.66	14.89	15.83
15	14.47	15.27	15.13	14.26	14.61	14.06	14.26	13.68	13.41	13.61	15.18	15.10
20	14.34	14.84	14.98	14.39	14.40	14.25	14.08	13.59	13.61	13.83	15.10	14.84
25	14.15	14.53	14.81	14.29	14.41	14.25	13.89	13.51	13.98	13.71	15.11	15.95
EOM	14.15	14.42	14.55	15.26	14.39	14.06	13.89	13.38	13.81	14.10	14.85	15.56
MAX	15.16	15.72	15.13	15.26	15.53	14.36	14.29	14.07	14.02	14.10	15.47	17.16



PALM BEACH COUNTY—Continued

WELL NUMBER.--262435080042904. Local Number PB 948. USGS Observation Well in Boca Raton, FL.

LOCATION.--Lat 26°24'38", long 80°04'28", in SW ¼ SE ¼ SE ¼ sec.32, T.46 S., R.43 E., Hydrologic Unit 03090202, about 570 ft east of U.S. Highway 1 and 800 ft north of Coventry Street.

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

WELL CHARACTERISTICS.--Drilled, observation well, diameter 2 in., depth 175 ft, cased to 170 ft, screened 170 to 175 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 15.25 ft above National Geodetic Vertical Datum of 1929. Prior to September 2000, measuring point was 15.38 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 12.5 ft above NGVD.

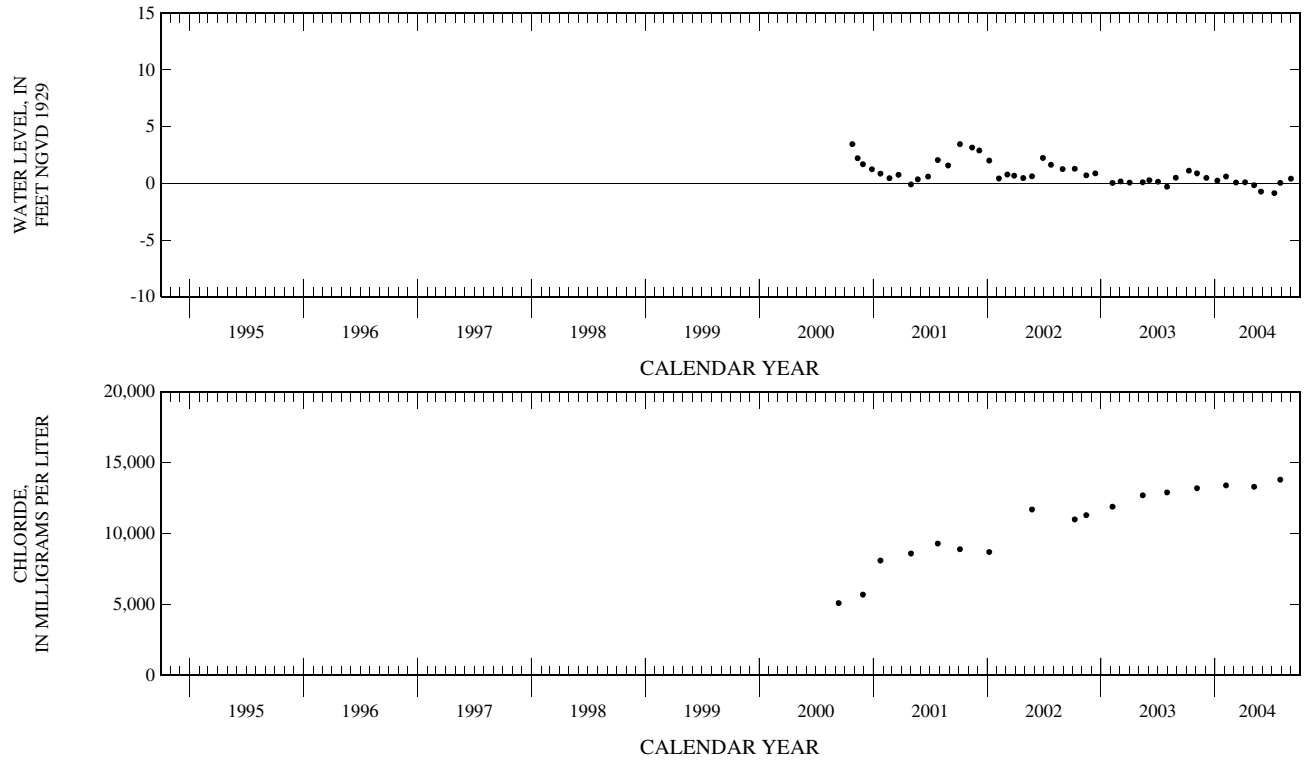
REMARKS.--Well is also used for salinity monitoring, including an annual induction log. Induction logs are used to assess the movement of the fresh-water/salt-water interface on ground water. See EXPLANATION OF RECORDS SECTION, RECORDS OF BULK CONDUCTIVITY in the front of this book. A calibration error was found to have affected some of the historical bulk conductivity logs. Bulk conductivity logs prior to the 2002 water year had been calibrated to a standard of 1,301 mS/m. For these calibrations an internal setting limited the probe response to 1,000 mS/m. Data for the affected years was corrected by applying a 0.7686 multiplier. Measured well depth at 163.5 ft from top of casing on May 5, 2004. Well is filling with sand from the aquifer but because the well is cased to 170 ft the samples collected are considered to be representative of the aquifer at this depth.

PERIOD OF RECORD.--November 1976 to September 1978 (monthly), October 1978 to January 1982 (quarterly), November 1982 to September 1994 (monthly), October 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.02 ft NGVD, Jan. 17, 1977; lowest, 0.87 ft below NGVD, July 9, 2004.

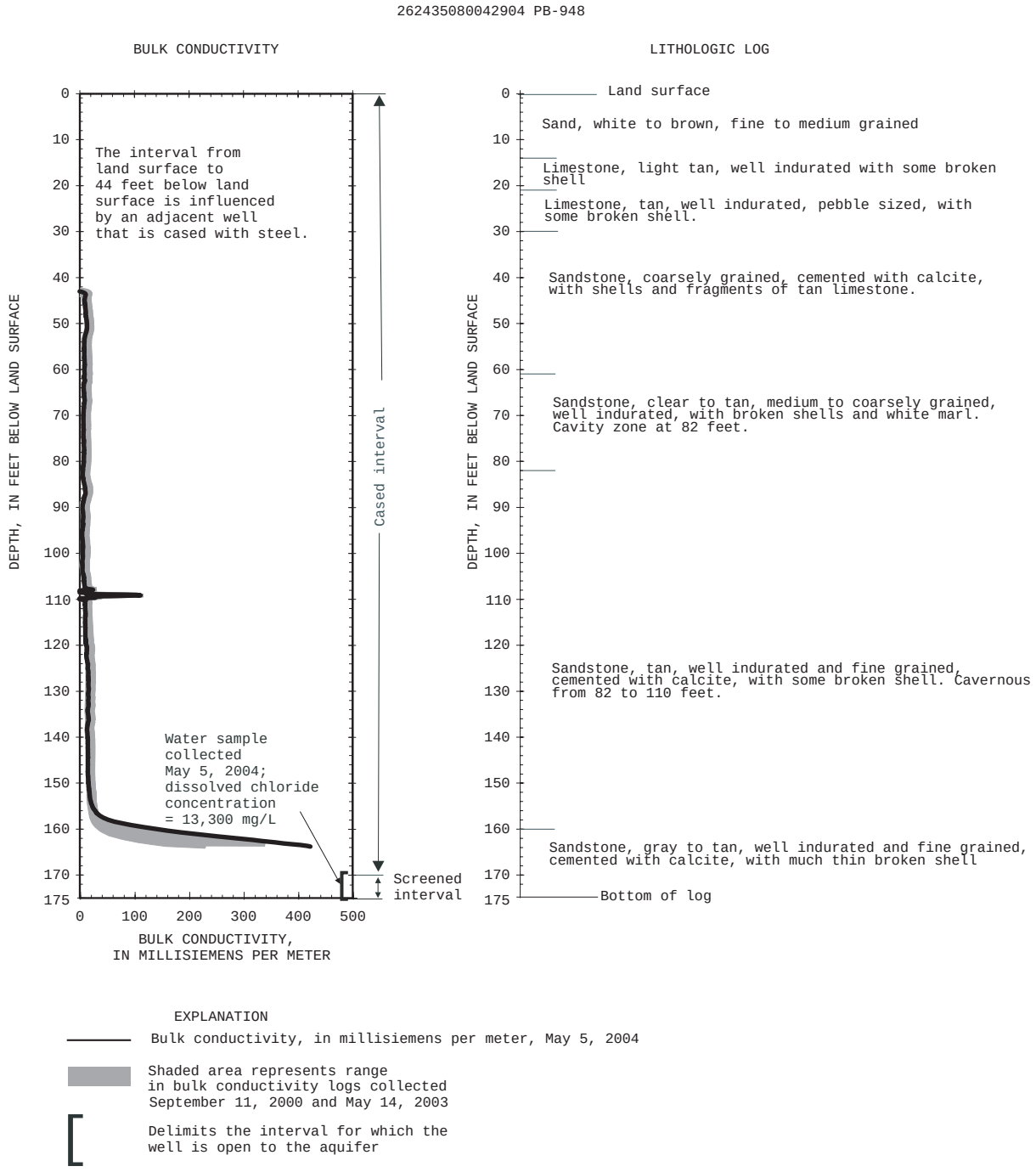
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
09...	1320	1.11	--	--
NOV				
04...	1128	.88	34,600	13,200
DEC				
04...	1425	.48	--	--
JAN				
08...	1320	.24	--	--
FEB				
05...	1402	.60	35,800	13,400
MAR				
08...	1258	.07	--	--
APR				
06...	1340	.09	--	--
MAY				
05...	0921	-.17	36,300	13,300
27...	1140	-.73	--	--
JUL				
09...	1345	-.87	--	--
28...	0726	.04	37,700	13,800
AUG				
31...	1141	.41	--	--



PALM BEACH COUNTY—Continued

WELL NUMBER.--262435080042904. Local Number PB 948. USGS Observation Well in Boca Raton, FL.-Continued



PALM BEACH COUNTY—Continued

WELL NUMBER.--262713080041901. Local Number PB 1710. USGS Observation Well near Delray Beach, FL.

LOCATION.--Lat 26°27'13", long 80°04'19", in NW $^1/_4$ NW $^1/_4$ NW $^1/_4$ sec.21, T.46 S., R.43 E., Hydrologic Unit 03090202, on north side of SE 5th Street, next to guardrail, between SE 3rd Avenue and railroad tracks, 0.3 mi west of U.S. Highway 1.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 222 ft, casing to 103 ft, screened 103 to 222 ft. See REMARKS.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 17.22 ft above National Geodetic Vertical Datum of 1929. Prior to October 2002, measuring point was incorrectly considered to be 17.00 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 17.2 ft above NGVD.

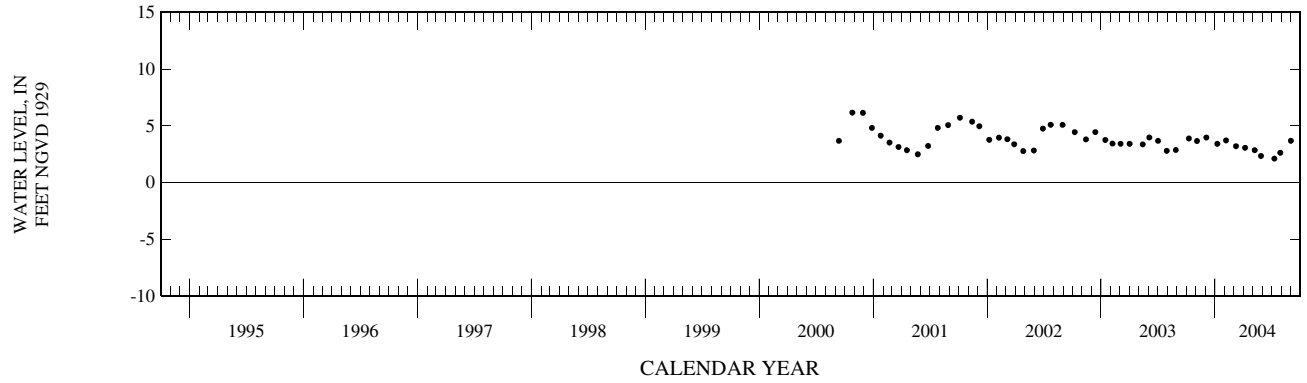
REMARKS.--Well is also used for salinity monitoring. Only salinity was measured prior to October 2000. The figures of water level as elevation, in ft NGVD, prior to October 2002 are in error. A correction of +0.22 ft has been applied to correct water-level data. Corrected records are in files of the U.S. Geological Survey. See DATUM. The well was examined with a borehole camera on December 3, 2004. The well has an obstruction at a depth of 111 ft. Because of the obstruction chloride concentrations in water samples are not representative of the chloride concentration at the bottom of the well but most likely represent a composite of water from 103 to 222 ft. Discontinuation of monitoring in being considered. See WELL CHARACTERISTICS.

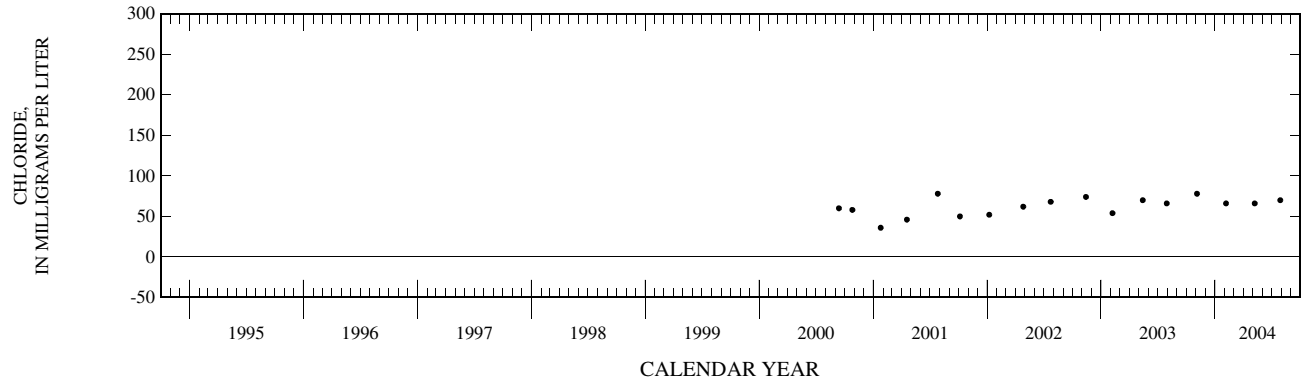
PERIOD OF RECORD.--September 1997 to September 2000 (intermittent), October 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.17 ft NGVD, Oct. 25, 2000; lowest, 2.12 ft NGVD, July 9, 2004.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
09...	1255	3.89	--	--
NOV				
04...	1215	3.67	705	78.0
DEC				
04...	1347	3.97	--	--
JAN				
08...	1213	3.42	--	--
FEB				
05...	1507	3.72	705	66.0
MAR				
08...	1237	3.21	--	--
APR				
06...	1318	3.07	--	--
MAY				
07...	0830	2.86	717	66.0
27...	1123	2.35	--	--
JUL				
09...	1322	2.12	--	--
28...	0839	2.63	714	70.0
AUG				
31...	1110	3.69	--	--





PALM BEACH COUNTY-Continued

WELL NUMBER.--262755080040101. Local Number PB 1707. USGS Observation Well near Delray Beach, FL.

LOCATION.--Lat 26°27'54", long 80°04'01", in NE ¼ SE ¼ NW ¼ sec.16, T.46 S., R.43 E., Hydrologic Unit 03090202, on NE 6th Avenue, 1 block east of U.S. Highway 1, on south side of NE 2nd Street. (Corrected)

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 182.7 ft. (Corrected).

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 12.17 ft above National Geodetic Vertical Datum of 1929. Prior to October 2002, measuring point was incorrectly considered to be 12.20 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 12.2 ft above NGVD.

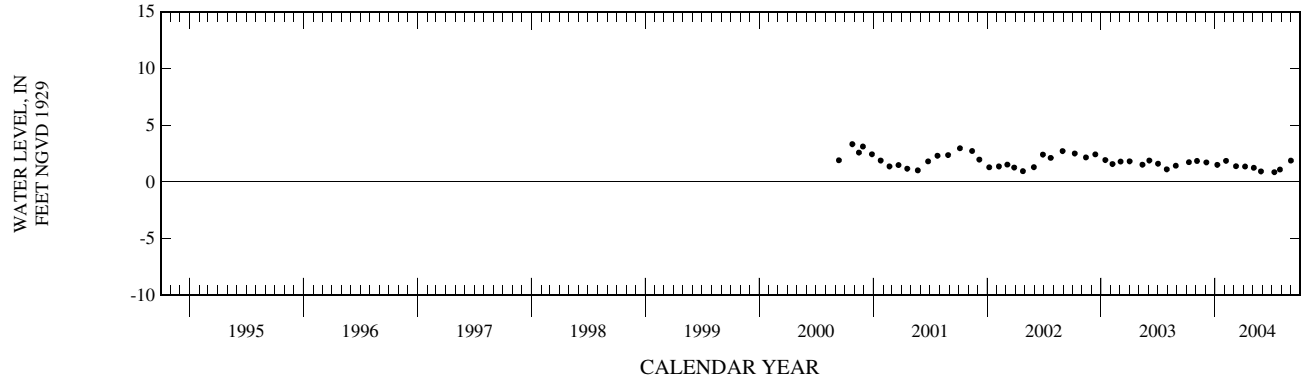
REMARKS.--Well is also used for salinity monitoring. Only salinity was measured prior to September 2000. The figures of water level as elevation, in ft NGVD, prior to October 2002 are in error. A correction of -0.03 ft has been applied to correct water-level data. Corrected records are in files of the U.S. Geological Survey. See DATUM.

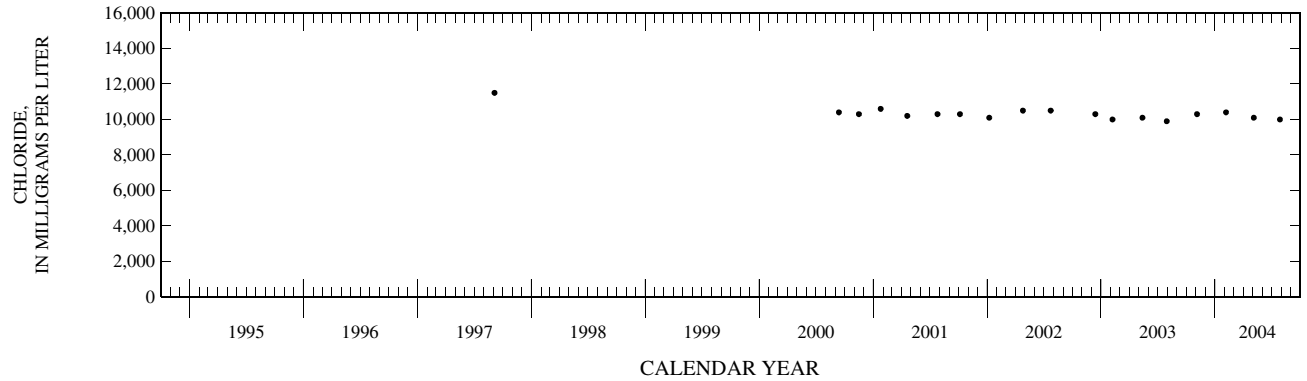
PERIOD OF RECORD.--September 1997 to September 2000 (intermittent), October 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.33 ft NGVD, Oct. 25, 2000; lowest, 0.86 ft NGVD, July 9, 2004.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
09...	1241	1.74	--	--
NOV				
04...	1315	1.85	26,000	10,300
DEC				
04...	1338	1.72	--	--
JAN				
08...	1159	1.51	--	--
FEB				
05...	1545	1.86	27,200	10,400
MAR				
08...	1226	1.39	--	--
APR				
06...	1303	1.36	--	--
MAY				
04...	1726	1.25	27,600	10,100
27...	1110	.93	--	--
JUL				
09...	1311	.86	--	--
27...	1537	1.09	27,300	10,000
AUG				
31...	1049	1.88	--	--





PALM BEACH COUNTY—Continued

WELL NUMBER.--262803080041101. Local Number PB 1714. USGS Observation Well near Delray Beach, FL.

LOCATION.--Lat 26°27'56", long 80°04'12", in SE ¼ NW ¼ NW ¼ sec.16, T.46 S., R.43 E., Hydrologic Unit 03090202, 16 ft east of the Florida East Coast Railroad and 22 ft north of the centerline of NE 2nd Street, 0.10 mi west of U.S. Highway 1.

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

WELL CHARACTERISTICS.--Drilled, observation well, diameter 2 in., depth 159 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 17.85 ft above National Geodetic Vertical Datum of 1929. Prior to June 10, 2003, measuring point was incorrectly considered to be 18.10 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 17.9 ft above NGVD.

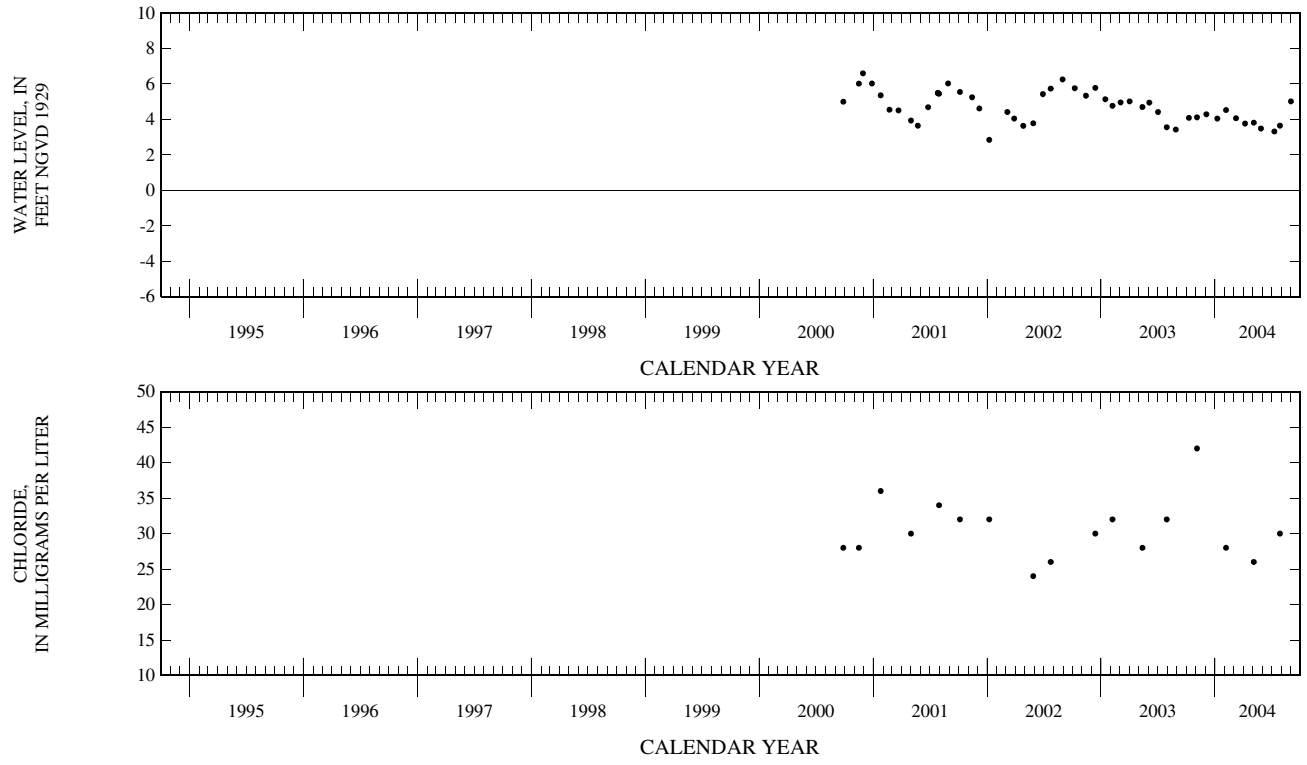
REMARKS.--Well is also used for salinity monitoring, including an annual induction log. Induction logs are used to assess the movement of the fresh-water/salt-water interface on ground water. See EXPLANATION OF THE RECORDS SECTION, RECORDS OF BULK CONDUCTIVITY in the front of this book. Induction log data contains spikes that occur at 40 ft increments. The spike data could be caused by well centralizers. A calibration error was found to have affected some of the historical bulk conductivity logs. Bulk conductivity logs prior to the water year 2002 had been calibrated to a standard of 1,301 mS/m. For these calibrations an internal setting limited the probe response to 1,000 mS/m. Data for the affected years was corrected by applying a 0.7686 multiplier. The figures of water level as elevation, in feet NGVD, prior to October 2003 are in error. Corrected records are in files of the U.S. Geological Survey. See DATUM.

PERIOD OF RECORD.--September 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.60 ft NGVD, Nov. 28, 2000; lowest, 2.85 ft NGVD, Jan. 7, 2002.

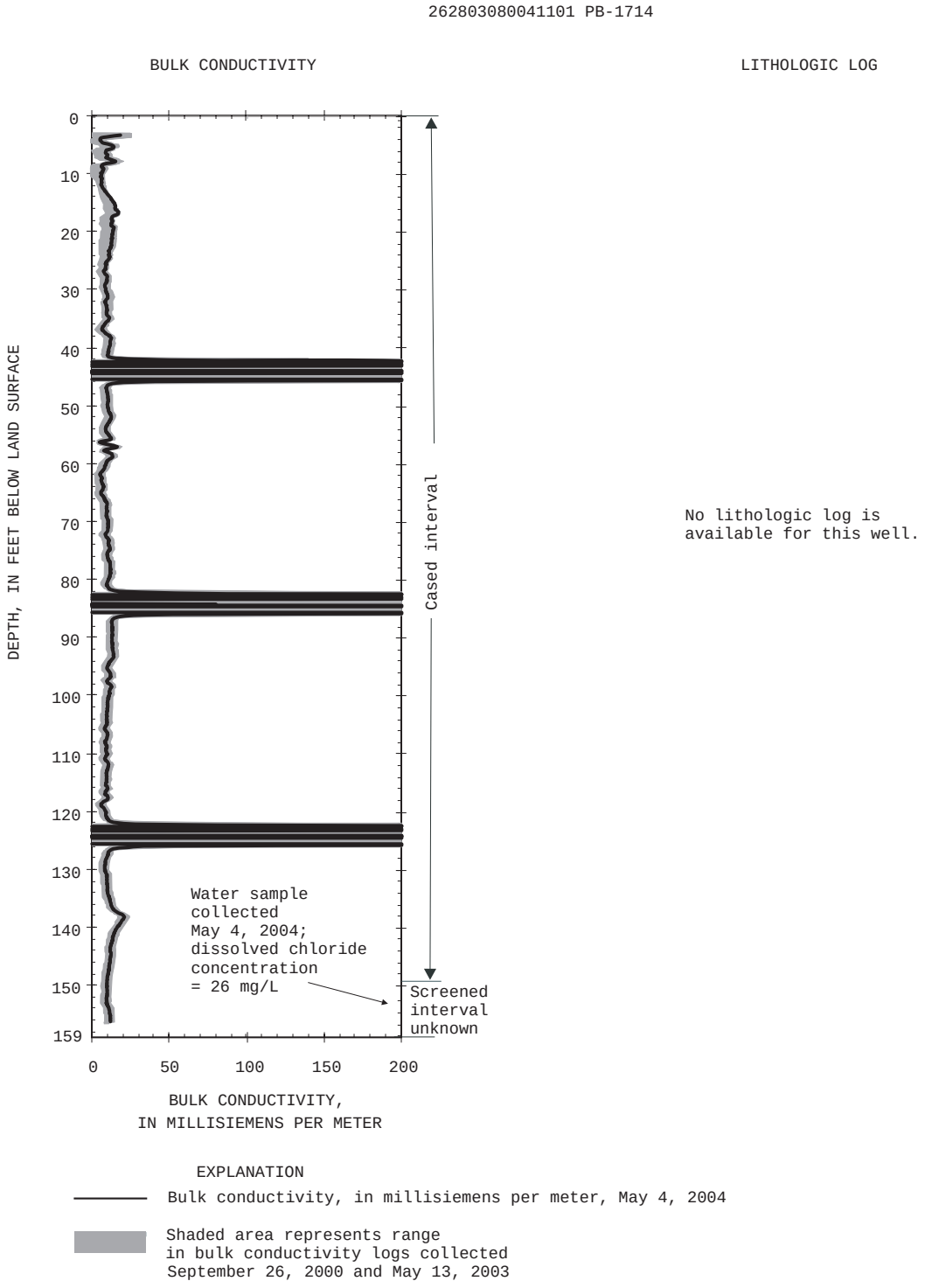
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
09...	1235	4.09	--	--
NOV				
04...	1245	4.12	468	42.0
DEC				
04...	1330	4.29	--	--
JAN				
08...	1150	4.05	--	--
FEB				
05...	1620	4.53	476	28.0
MAR				
08...	1222	4.07	--	--
APR				
06...	1257	3.77	--	--
MAY				
04...	1701	3.82	475	26.0
27...	1106	3.49	--	--
JUL				
09...	1303	3.32	--	--
27...	1507	3.65	482	30.0
AUG				
31...	1040	5.02	--	--



PALM BEACH COUNTY—Continued

WELL NUMBER.--262803080041101. Local Number PB 1714. USGS Observation Well near Delray Beach, FL.-Continued



PALM BEACH COUNTY—Continued

WELL NUMBER.--263021080070102. Local Number PB 1628. USGS Observation Well near Boynton Beach, FL.

LOCATION.--Lat 26°30'21", long 80°07'01", in SE ¼ SE ¼ NW ¼ sec.36, T.45 S., R.42 E., Hydrologic Unit 03090202, 33 ft north of Golf Road, 0.4 mi east of Military Trail, 0.38 mi south of Woolbright Road and 3.15 mi west of U.S. Interstate 95.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 109 ft, cased to 104 ft, screened from 104 to 109 ft.

INSTRUMENTATION.--Electronic data logger with pressure transducer.

DATUM.--Measuring point: Top of base, 21.26 ft above National Geodetic Vertical Datum of 1929. Prior to August 2000, measuring point was top of casing, 18.42 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 18.9 ft above NGVD.

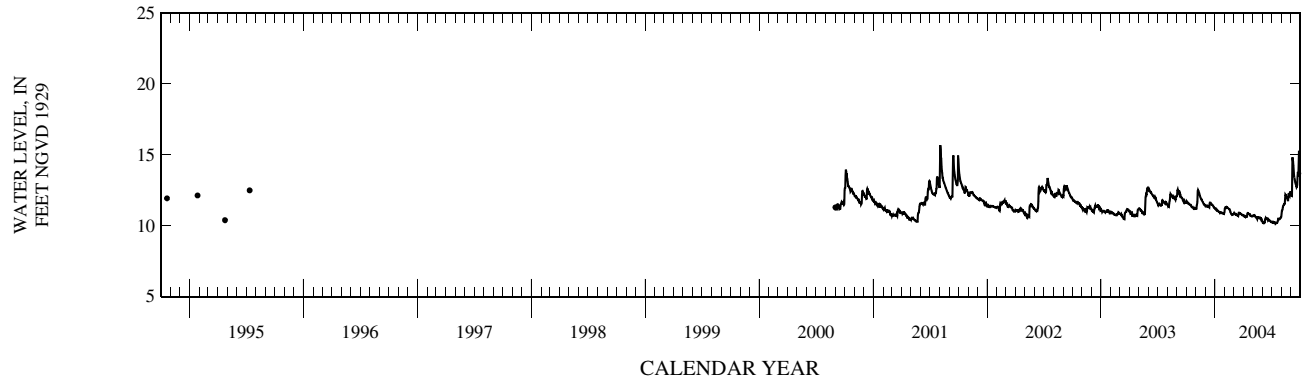
REMARKS.--Station built and re-levelled August 14, 2000.

PERIOD OF RECORD.--May 1988 to April 1993 (semiannual), November 1993 to July 1995 (quarterly), August 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 15.68 ft NGVD, Aug. 3, 2001; lowest, 10.17 ft NGVD, July 12, 2004.

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	11.65	11.70	11.38	11.18	11.32	10.85	10.69	10.73	10.19	10.25	11.31	14.83
10	11.56	12.37	11.37	11.07	11.29	10.77	10.64	10.62	10.48	10.23	11.54	13.55
15	11.48	12.03	11.63	10.96	11.17	10.70	10.90	10.49	10.53	10.18	12.16	12.97
20	11.32	11.80	11.50	10.95	10.95	10.90	10.83	10.60	10.40	10.36	11.88	12.89
25	11.24	11.56	11.44	10.88	10.80	10.83	10.70	10.56	10.34	10.50	12.23	14.33
EOM	11.23	11.43	11.23	10.92	10.85	10.77	10.66	10.36	10.26	10.62	12.25	13.63
MAX	11.75	12.53	11.63	11.22	11.33	10.92	10.90	10.74	10.55	10.62	12.42	15.29



PALM BEACH COUNTY—Continued

WELL NUMBER.--263044080035102. Local Number PB 1195. USGS Observation Well in Boynton Beach, FL.

LOCATION.--Lat 26°30'47", long 80°03'47", in NE ¼ NW ¼ NE ¼ sec.33, T.45 S., R.43 E., Hydrologic Unit 03090202, about 500 ft southwest of the intersection of the Florida East Coast Railroad and East Woolbright Road, 0.5 mi east of U.S. Interstate 95, about 400 ft south of East Woolbright Road and about 350 ft east of Seacreast Boulevard.

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

WELL CHARACTERISTICS.--Drilled, observation, diameter 4 in., depth 325 ft, cased to 300 ft, screened 300 to 320 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 20.13 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 19.0 ft above NGVD.

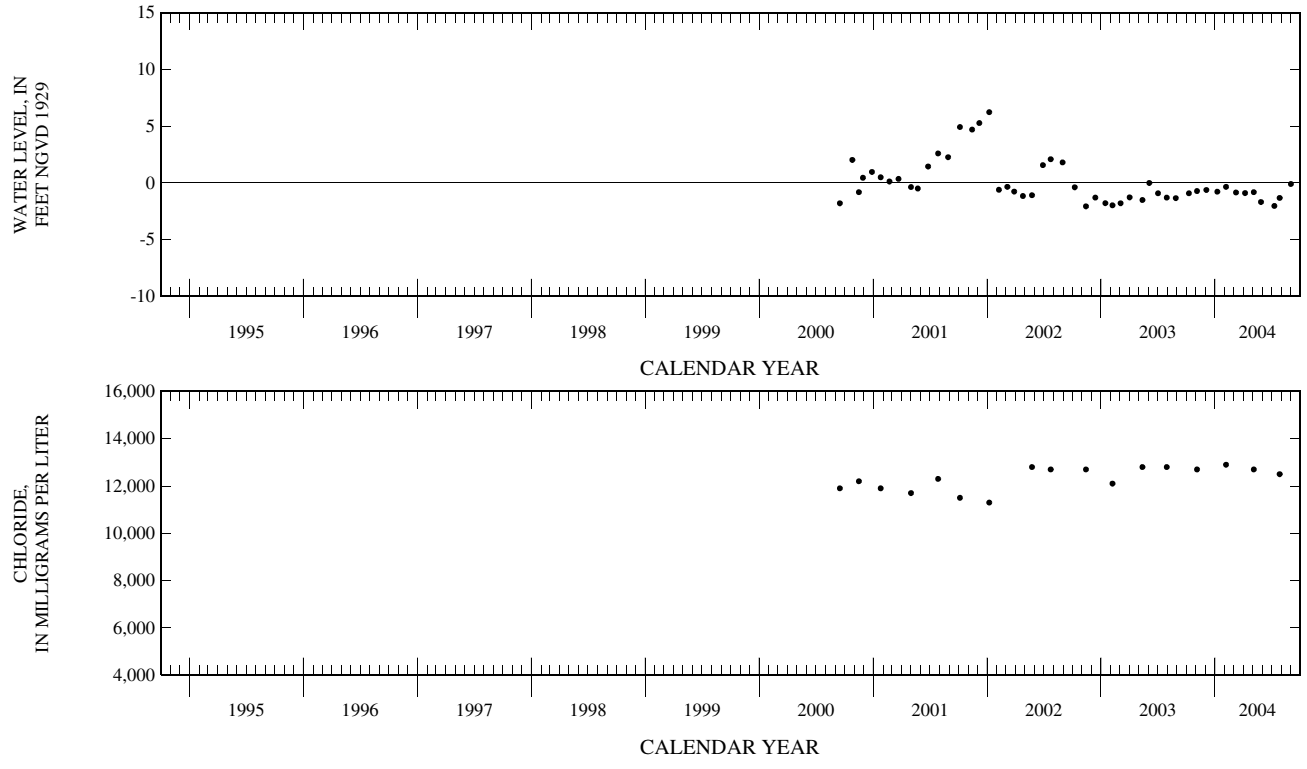
REMARKS.--Well is also used for salinity monitoring, including an annual induction log. Induction logs are used to assess the movement of the fresh-water/salt-water interface on ground water. See EXPLANATION OF THE RECORDS SECTION, RECORDS OF BULK CONDUCTIVITY in the front of this book. A calibration error was found to have affected some of the historical bulk conductivity logs. Bulk conductivity logs prior to the water year 2002 had been calibrated to a standard of 1,301 mS/m. For these calibrations an internal setting limited the probe response to 1,000 mS/m. Data for the affected years was corrected by applying a 0.7686 multiplier. Records of water-level elevation prior to October 2001, are available in the files of the U.S. Geological Survey.

PERIOD OF RECORD.--September 2000 to current year.

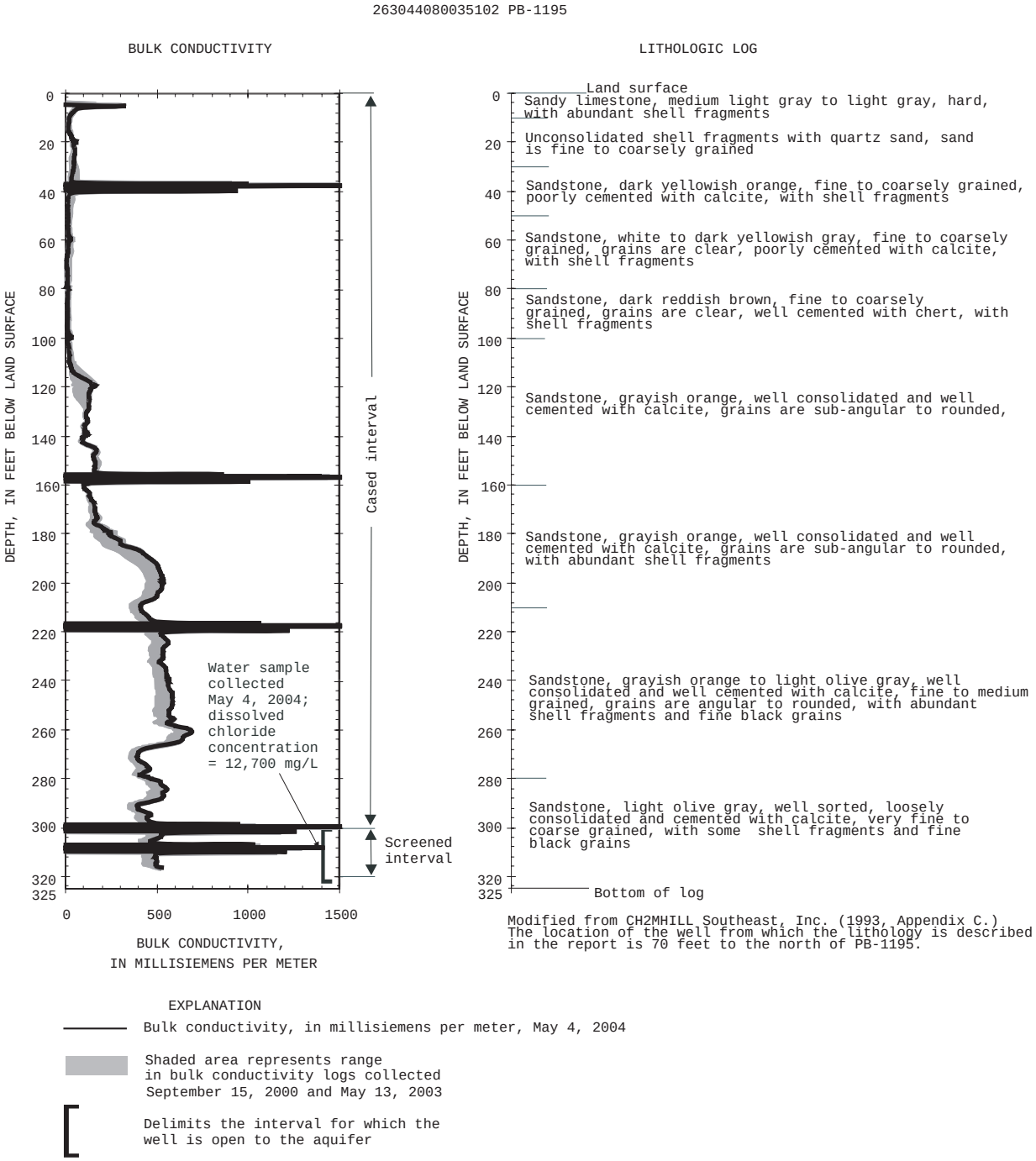
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.24 ft NGVD, Jan. 7, 2002; lowest, 2.06 ft below NGVD, Nov. 13, 2002.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
09...	1208	-.91	--	--
NOV				
04...	1424	-.71	33,700	12,700
DEC				
04...	1259	-.62	--	--
JAN				
08...	1115	-.77	--	--
FEB				
05...	1209	-.34	35,100	12,900
MAR				
08...	1202	-.84	--	--
APR				
06...	1243	-.89	--	--
MAY				
04...	1414	-.81	35,000	12,700
27...	1039	-1.68	--	--
JUL				
09...	1242	-2.02	--	--
26...	1143	-1.32	34,900	12,500
AUG				
31...	1003	-.09	--	--



WELL NUMBER.--263044080035102. Local Number PB 1195. USGS Observation Well in Boynton Beach, FL.-Continued



Modified from CH2MHILL Southeast, Inc. (1993, Appendix C.)
The location of the well from which the lithology is described in the report is 70 feet to the north of PB-1195.

PALM BEACH COUNTY—Continued

WELL NUMBER.--263053080034401. Local Number PB 1736. USGS Observation Well near Boynton Beach, FL.

LOCATION.--Lat 26°30'53", long 80°03'36", in NE ¼ NW ¼ NE ¼ sec.33, T.45 S., R.43 E., Hydrologic Unit 03090202, on SE 15th Avenue and U.S. Highway 1, on sidewalk at southwest corner, 80 ft east of entrance to mall parking lot.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 178 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 10.71 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 10.7 ft above NGVD.

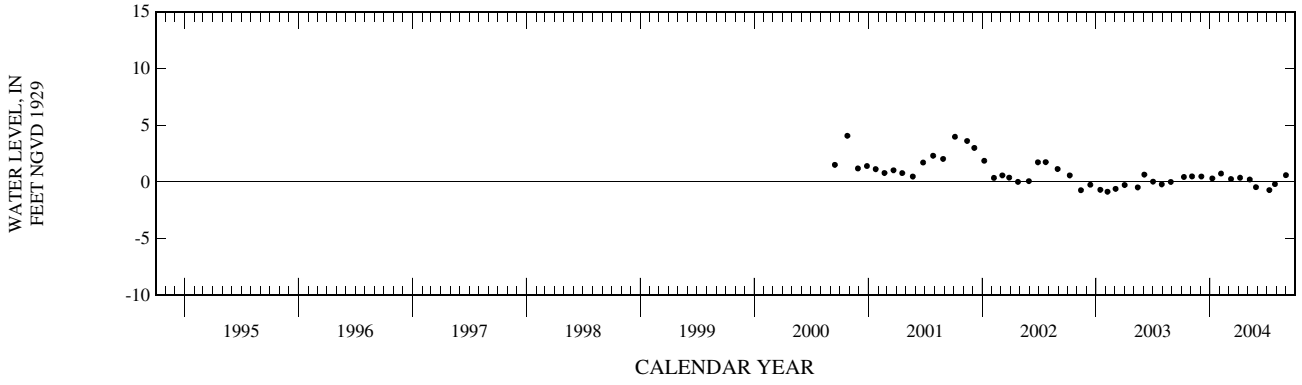
REMARKS.--Well is also used for salinity monitoring.

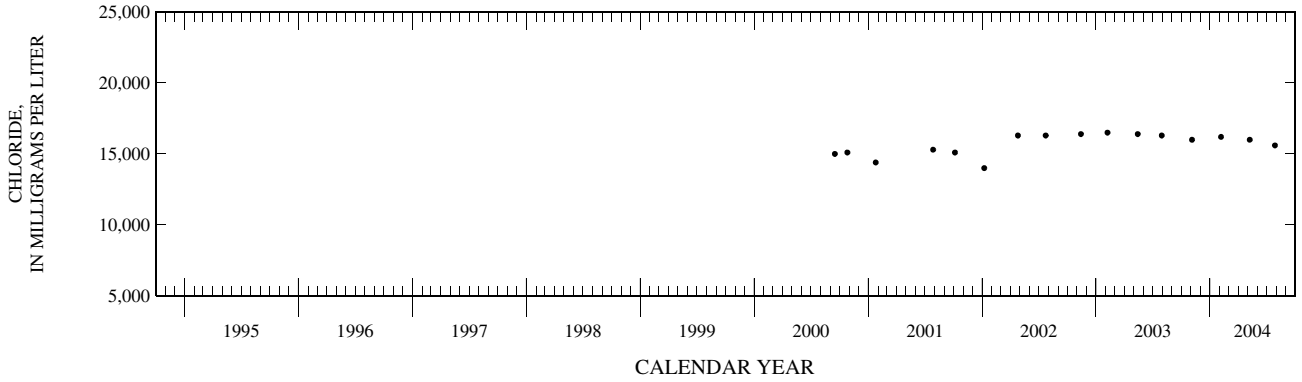
PERIOD OF RECORD.--September 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.07 ft NGVD, Oct. 25, 2000; lowest, 0.86 ft below NGVD, Feb. 6, 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
09...	1215	.44	--	--
NOV				
04...	1413	.49	42,400	16,000
DEC				
04...	1249	.48	--	--
JAN				
08...	1128	.31	--	--
FEB				
05...	1133	.74	42,600	16,200
MAR				
08...	1211	.26	--	--
APR				
06...	1215	.37	--	--
MAY				
07...	0728	.22	43,400	16,000
27...	1049	-.46	--	--
JUL				
09...	1230	-.72	--	--
27...	1345	-.19	43,200	15,600
AUG				
31...	1009	.60	--	--





PALM BEACH COUNTY—Continued

WELL NUMBER.--263255080133601. Local Number PB 1576. USGS Observation Well near Greenacres, FL.

LOCATION.--Lat 26°32'55", long 80°13'36", in NE ¼ NW ¼ SE ¼ sec.14, T.45 S., R.41 E., Hydrologic Unit 03090202, 200 ft north of Eagle Nest Drive and 1,400 ft west of 116th Terrace South, 1.3 mi southwest of intersection of Osprey Pond Lane and U.S. Highway 441, 3 mi south of State Road 812, 8 mi southwest of Greenacres.

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

WELL CHARACTERISTICS.--Observation, water-table well, diameter 2 in., depth 160 ft, cased to 60 ft, screened 60 to 160 ft.

INSTRUMENTATION.--Electronic data logger with pressure transducer.

DATUM.--Measuring point: Top of base, 21.03 ft above National Geodetic Vertical Datum of 1929. Prior to the 2004 water year, measuring point was incorrectly considered to be 20.73 ft. (Corrected).

LAND-SURFACE DATUM.--Land surface is approximately 17.5 ft above NGVD. (Corrected).

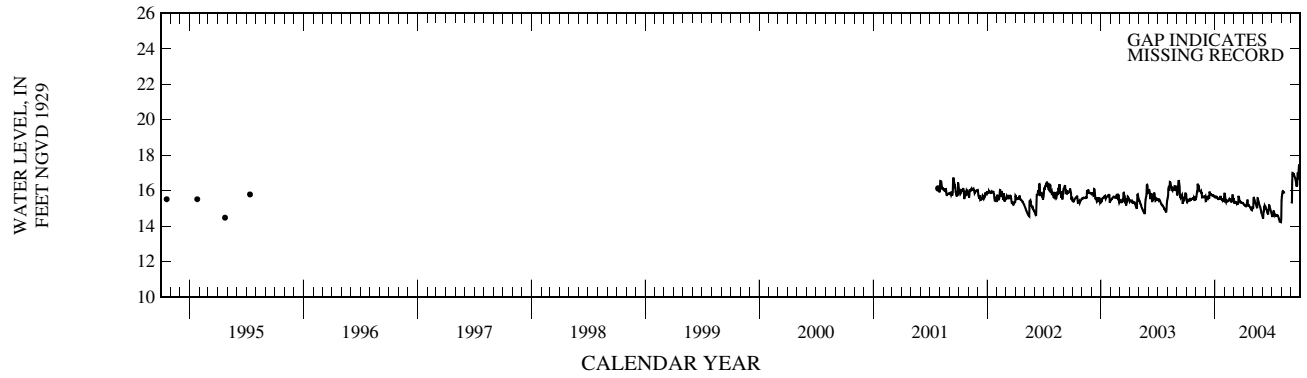
REMARKS.--Well was originally open to the aquifer from 60 to 160 ft. The open interval has collapsed or the well has become obstructed at a depth of 51 ft. Well remains in communication with the aquifer. Water-level data for water years 2001, 2002, were published in WDR FL-03-2B. The figures of water level as elevation, in ft NGVD, prior to October 2003 are in error. A correction of +0.30 ft has been applied to correct water-level data. Corrected records are in files of the U.S. Geological Survey. See DATUM

PERIOD OF RECORD.--November 1993 to July 1995 (quarterly), July 2001 to current year. (Corrected).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 17.44 ft NGVD, Sept. 27, 2004; lowest, 14.23 ft NGVD, July 30, 2004.

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	15.38	15.94	15.70	15.67	15.37	15.34	15.18	15.54	14.83	14.67	15.98	16.95
10	15.51	16.19	15.71	15.56	15.40	15.30	15.14	15.27	15.11	14.68	15.84	16.87
15	15.49	15.98	15.88	15.56	15.54	15.28	15.19	15.01	14.85	14.58	---	16.58
20	15.56	15.63	15.77	15.52	15.44	15.42	15.12	15.31	14.90	14.60	---	16.36
25	15.62	15.64	15.71	15.45	15.65	15.34	14.98	15.02	15.03	14.32	---	17.18
EOM	15.51	15.64	15.65	15.82	15.49	15.30	15.12	14.62	14.69	14.37	---	17.25
MAX	15.69	16.39	15.95	15.82	15.88	15.71	15.46	15.60	15.18	14.85	---	17.44



PALM BEACH COUNTY—Continued

WELL NUMBER.--263328080085201. Local Number PB 445. USGS Observation Well near Boynton Beach, FL.

LOCATION.--Lat 26°33'28", long 80°08'49", in SW ¼ SW ¼ SE ¼ sec.10, T.45 S., R.42 E., Hydrologic Unit 03090202, approximately 80 ft from the east side of Jog Road, 1.0 mi south of Hypoluxo Road and 2.2 mi west of Military Trail (State Road 809), 9.5 mi southwest of West Palm Beach.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 11.4 ft, cased to 11.4 ft, gravel packed from 9.4 to 11.4 ft.

REVISED RECORDS.--WDR FL-81-2B:1980.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 21.52 ft above National Geodetic Vertical Datum of 1929. Prior to April 1999, measuring point was considered to be 22.86 ft above NGVD. Prior to October 1975, measuring point was considered to be 21.66 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 19.6 ft above NGVD. (Corrected).

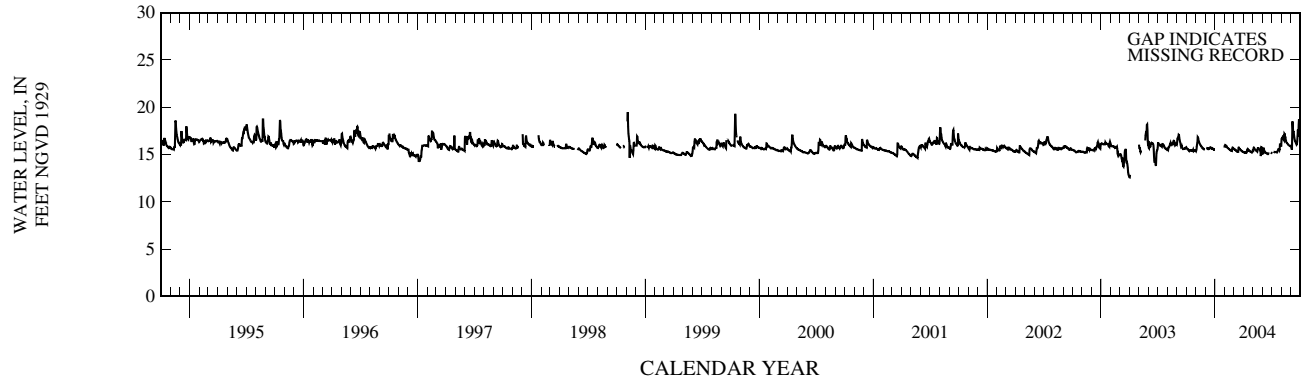
REMARKS.--Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey. Published figures of water levels as elevation, in feet NGVD, prior to October 1998 are in error. Corrected records are in files of the U.S. Geological Survey. See DATUM.

PERIOD OF RECORD.--January 1964 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 19.49 ft NGVD, Nov. 5, 1998; lowest, 12.58 ft NGVD, Apr. 2, 2003.

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	15.58	16.27	15.66	---	15.89	15.51	15.19	15.71	15.65	---	16.88	18.51
10	15.36	16.39	15.69	---	15.70	15.39	15.20	15.47	15.21	15.24	17.20	17.03
15	15.48	16.01	15.73	---	15.58	15.29	15.55	15.31	15.10	15.27	16.44	16.30
20	15.40	15.76	15.63	---	15.45	15.56	15.42	15.61	15.23	15.42	16.16	16.45
25	15.37	15.61	15.63	---	15.65	15.42	15.27	15.44	---	15.50	15.97	18.15
EOM	15.40	---	15.49	15.73	15.62	15.28	15.41	15.40	15.19	15.93	15.90	17.77
MAX	15.72	---	---	---	16.00	15.73	15.59	15.78	---	---	17.20	18.75



PALM BEACH COUNTY—Continued

WELL NUMBER.--263453080031501. Local Number PB 1717. USGS Observation Well near Lantana, FL.

LOCATION.--Lat 26°34'53", long 80°03'15", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.3, T.45 S., R.43 E., Hydrologic Unit 03090202, on southside of Wickline Road west of U.S. Highway 1, in planter in northeast corner of apartment building #330 parking lot, well is most western of two wells.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 148 ft, cased to 138 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 13.26 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 13.3 ft above NGVD.

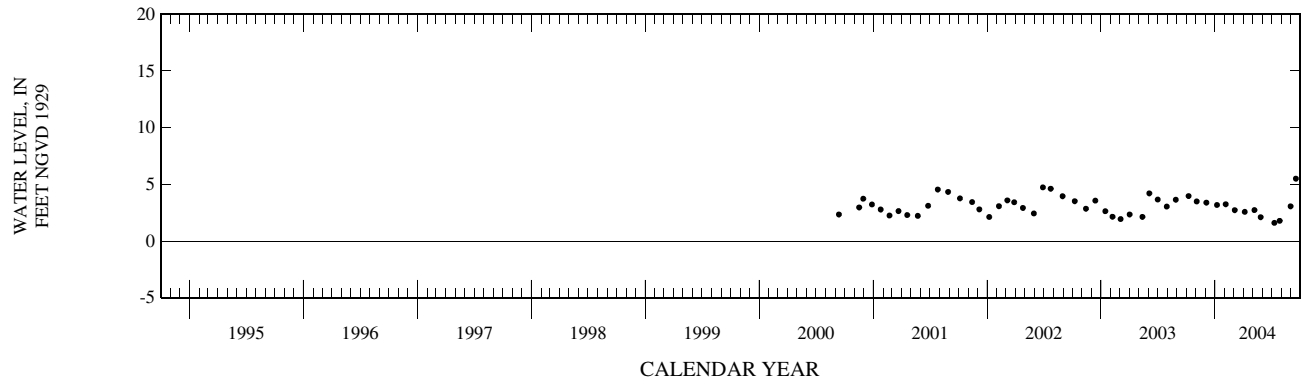
REMARKS.--Well is also used for salinity monitoring. Records of water levels prior to October 2001, are available in the files of the U.S. Geological Survey. Only salinity was measured prior to October 2000.

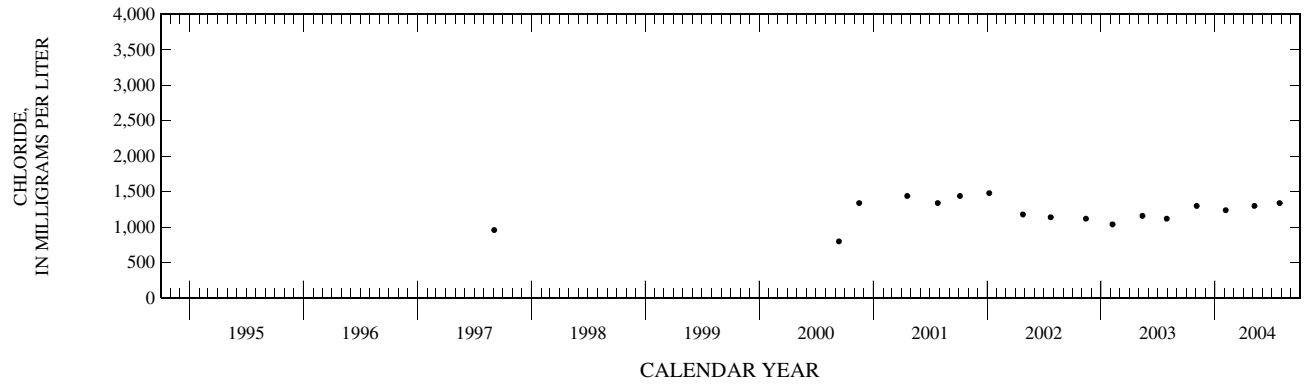
PERIOD OF RECORD.--September 1997 to September 2000 (intermittent), October 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.50 ft NGVD, Sept. 16, 2004; lowest, 1.60 ft NGVD, July 9, 2004.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
08...	1210	3.96	--	--
NOV				
03...	1045	3.49	3,710	1,300
DEC				
04...	1233	3.38	--	--
JAN				
07...	1211	3.18	--	--
FEB				
04...	1219	3.24	3,940	1,240
MAR				
04...	1125	2.72	--	--
APR				
05...	1119	2.57	--	--
MAY				
06...	1330	2.73	4,190	1,300
26...	1218	2.10	--	--
JUL				
09...	1211	1.60	--	--
26...	1205	1.78	4,180	1,340
AUG				
30...	1116	3.06	--	--
SEP				
16...	1151	5.50	--	--





PALM BEACH COUNTY—Continued

WELL NUMBER.--263524080124301. Local Number PB 683. USGS Observation Well near West Palm Beach, FL.

LOCATION.--Lat 26°35'24", long 80°12'43", in SE ¼ NW ¼ NE ¼ sec.37, T.44 ½ S., R.41 E., Hydrologic Unit 03090202, 0.3 mi west of U.S. Highway 441, south of Lantana Road near TV tower, and 11 mi southwest of West Palm Beach.

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, open end.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 20.85 ft above National Geodetic Vertical Datum of 1929. Prior to October 1989, measuring point was considered to be 18.95 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 18.4 ft above NGVD. (Corrected).

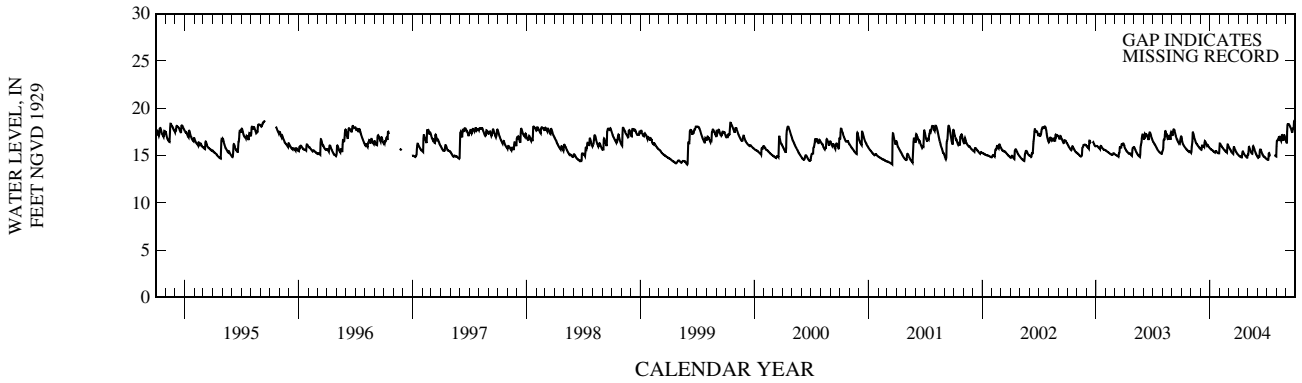
REMARKS.--The figures of water levels as elevation, in feet NGVD, prior to October 1989 are in error. Corrected records are in the files of the U.S. Geological Survey. The well has become obstructed at a depth of 13 ft. A review of water-level records indicates that the well remains in good hydrologic communication with the aquifer. See DATUM.

PERIOD OF RECORD.--June 1973 to May 1977, May 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 18.67 ft NGVD, Sept. 27, 28, 2004; lowest, 13.61 ft NGVD, May 5-8, 1975.

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	16.36	16.48	15.77	15.62	16.07	15.66	14.93	15.92	14.95	14.55	16.63	18.20
10	15.98	17.03	15.94	15.51	15.81	15.39	14.83	15.45	15.64	15.11	16.90	18.29
15	15.77	16.55	16.52	15.36	15.60	15.18	15.43	15.20	15.27	---	16.64	17.97
20	15.55	16.20	16.19	15.48	15.44	15.72	15.12	15.86	14.95	---	17.05	17.40
25	15.39	15.94	16.10	15.28	15.83	15.35	14.89	15.34	14.81	---	17.15	17.91
EOM	15.34	15.75	15.78	15.74	15.99	15.09	15.05	14.95	14.63	14.90	16.56	18.54
MAX	16.98	17.44	16.52	15.75	16.28	15.90	15.43	16.01	15.64	---	17.16	18.67



PALM BEACH COUNTY—Continued

WELL NUMBER.--263633080031401. Local Number PB 1723. USGS Observation Well in Lake Worth, FL.

LOCATION.--Lat 26°36'34", long 80°03'14", in SE ¼ SE ¼ NW ¼ sec.27, T.44 S., R.43 E., Hydrologic Unit 03090202, at the northwest corner of the intersection of South M Street and 5th Avenue, 3 ft west of well MW-3, 0.9 mi east of U.S. Interstate 95. (Corrected).

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 318 ft, cased to 310 ft, screened 310 to 315 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 11.33 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 11.3 ft above NGVD.

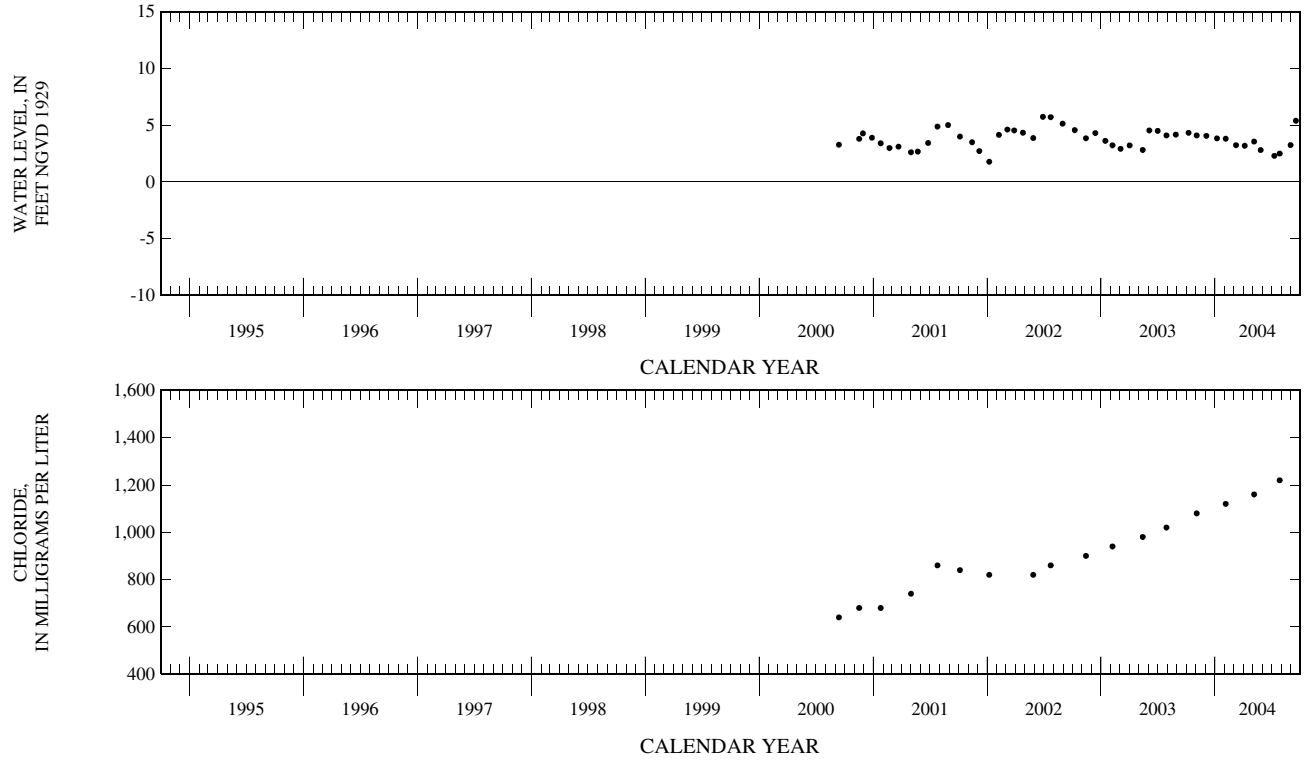
REMARKS.--Well is also used for salinity monitoring, including an annual induction log. Induction logs are used to assess the movement of the fresh-water/salt-water interface on ground water. Instrument calibration procedures, accuracy, and precision of induction logs are explained in detail in the RECORDS OF BULK CONDUCTIVITY section. See EXPLANATION OF THE RECORDS SECTION, RECORDS OF BULK CONDUCTIVITY in the front of this book. A calibration error was found to have affected some of the historical bulk conductivity logs. Bulk conductivity logs prior to the 2002 water year had been calibrated to a standard of 1,301 mS/m. For these calibrations an internal setting limited the probe response to 1,000 mS/m. Data for the affected years was corrected by applying a 0.7686 multiplier. Well logged with the bore hole camera in August 2000. Something is obstructing well at 307 ft depth. Induction logger does fit past this obstruction.

PERIOD OF RECORD.--September 2000 to current year.

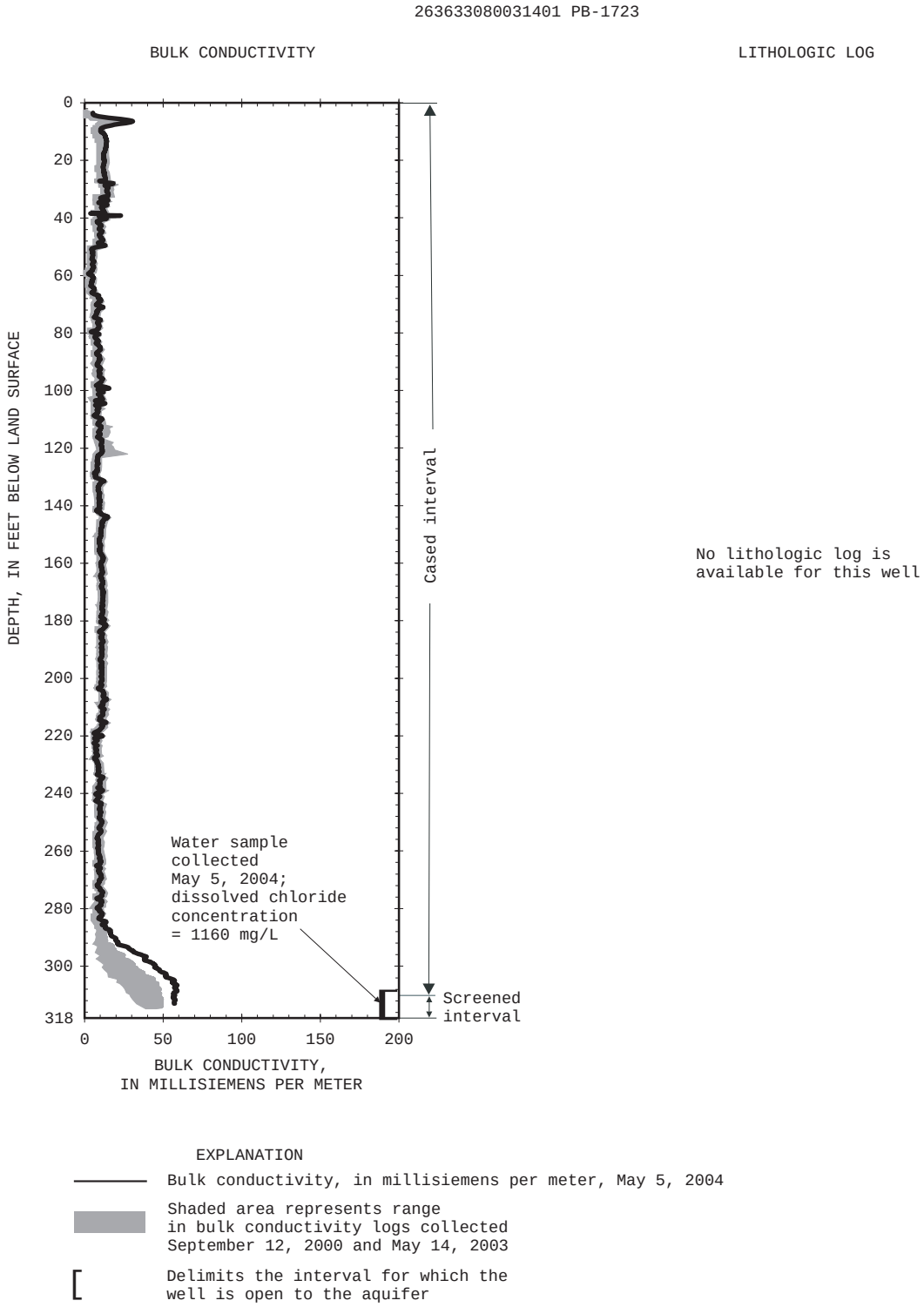
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.74 ft NGVD, June 28, 2002; lowest, 1.78 ft NGVD, Jan. 7, 2002.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
08...	1228	4.33	--	--
NOV				
03...	1130	4.10	3,490	1,080
DEC				
04...	1219	4.06	--	--
JAN				
07...	1225	3.84	--	--
FEB				
04...	1255	3.81	3,710	1,120
MAR				
08...	1140	3.24	--	--
APR				
05...	1139	3.19	--	--
MAY				
05...	1226	3.56	3,880	1,160
26...	1232	2.81	--	--
JUL				
09...	1200	2.30	--	--
26...	1253	2.50	4,060	1,220
AUG				
30...	1133	3.25	--	--
SEP				
16...	1202	5.39	--	--



WELL NUMBER.--263633080031401. Local Number PB 1723. USGS Observation Well in Lake Worth, FL.-Continued



PALM BEACH COUNTY—Continued

WELL NUMBER.--263656080033502. Local Number PB 1639. USGS Observation Well in Lake Worth, FL.

LOCATION.--Lat 26°36'56", long 80°03'35", in NW $^1/_4$ NE $^1/_4$ NE $^1/_4$ sec.28, T.44 S., R.43 E., Hydrologic Unit 03090202, on east right of way of Florida East Coast Railroad and south side of Lake Avenue, near City Hall in Lake Worth.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 25 ft, cased to 20 ft, screened from 20 to 25 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 19.73 ft above National Geodetic Vertical Datum of 1929. Prior to June 5, 1996, measuring point was 18.45 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 17.6 ft above NGVD. (Corrected).

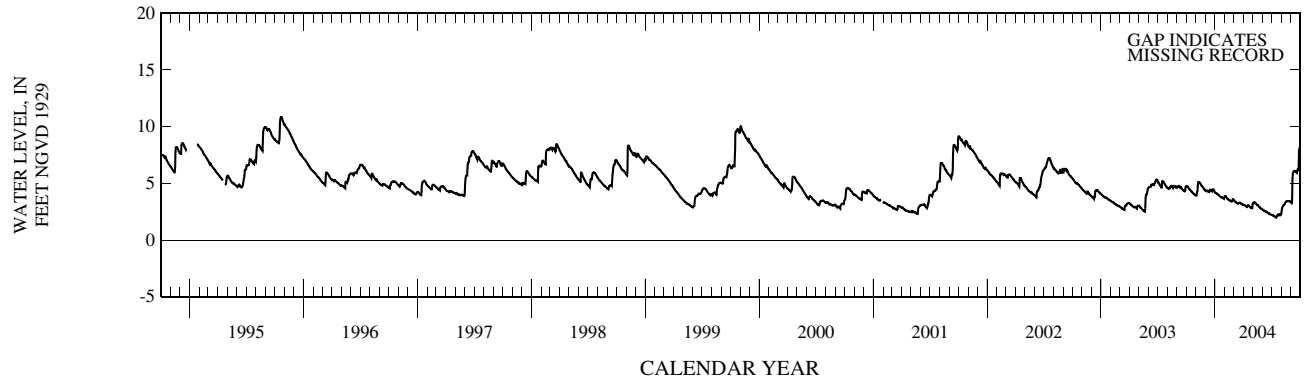
REMARKS.--Station reconstructed June 5, 1996.

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

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 10.83 ft NGVD, Oct. 21, 22, 1995; lowest, 1.97 ft NGVD, July 15, 2004.

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	4.71	4.25	4.31	4.13	3.82	3.38	3.06	3.31	2.61	2.16	2.96	5.27
10	4.52	5.10	4.25	4.02	3.59	3.28	2.96	3.26	2.53	2.07	3.14	6.07
15	4.34	4.97	4.42	3.88	3.52	3.19	3.04	3.08	2.47	1.97	3.36	6.06
20	4.19	4.74	4.35	3.78	3.44	3.30	2.97	2.94	2.35	2.24	3.43	6.08
25	4.05	4.57	4.46	3.73	3.44	3.18	2.86	2.83	2.28	2.23	3.44	6.42
EOM	3.93	4.38	4.21	3.73	3.57	3.11	3.14	2.71	2.21	2.28	3.32	8.28
MAX	4.75	5.10	4.46	4.16	3.88	3.54	3.14	3.31	2.69	2.28	3.44	8.28



PALM BEACH COUNTY—Continued

WELL NUMBER.--264005080233501. Local Number PB 99. USGS Observation Well in West Palm Beach, FL.

LOCATION.--Lat 26°40'14", long 80°03'35", in SW $^1/_4$ NE $^1/_4$ sec.4, T.44 S., R.43 E., Hydrologic Unit 03090202, at Garden Avenue, 19 ft north of Bradley Street and 0.2 mi west of U.S. Highway 1 in West Palm Beach.

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

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

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 16.69 ft above National Geodetic Vertical Datum of 1929. Prior to October 1993, measuring point was top of casing, 16.63 ft above NGVD. Prior to 1977 water year, measuring point was top of casing, 16.93 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 14.8 ft above NGVD. (Corrected).

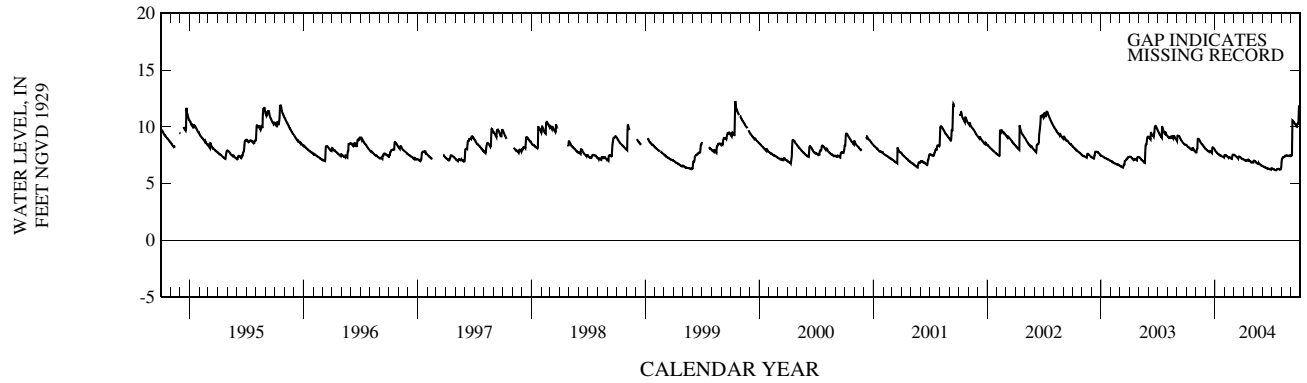
REMARKS.--In 1977, PB-99 replaced a well of similar depth, 55 ft north of current location. Both wells were published under the designation PB-99. Records of water levels prior to January 1957 are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--July 1948 to 1977 (original well), 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 14.06 ft NGVD, Oct. 6, 1948; lowest, 5.01 ft NGVD, Mar. 23, 1972.

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	8.27	8.10	7.96	7.77	7.50	7.48	7.08	7.02	6.49	6.29	7.30	10.57
10	8.17	8.91	7.87	7.63	7.38	7.35	7.00	6.92	6.41	6.21	7.37	10.41
15	8.03	8.67	7.88	7.52	7.35	7.21	7.10	6.78	6.35	6.17	7.47	10.20
20	8.14	8.46	7.73	7.45	7.24	7.36	7.01	6.75	6.32	6.29	7.46	10.25
25	7.97	8.28	8.19	7.37	7.42	7.22	6.90	6.68	6.28	6.27	7.49	10.95
EOM	7.76	8.09	8.00	7.42	7.55	7.15	6.85	6.56	6.35	6.43	7.48	11.53
MAX	8.40	8.95	8.19	7.94	7.55	7.55	7.13	7.02	6.55	6.43	7.49	11.87



PALM BEACH COUNTY—Continued

WELL NUMBER.--264123080053801. Local Number PB 809. USGS Observation Well in West Palm Beach, FL.

LOCATION.--Lat 26°41'23", long 80°05'41", in NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.31, T.43 S., R.43 E., Hydrologic Unit 03090202, on 8th Street in West Palm Beach, 1 mi north of State Road 98, and 2.5 mi west of U.S. Highway 1.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in. from 0 to 58 ft, 2 in. from 58 to 150 ft, depth 150 ft, cased to 145 ft, screened from 145 to 150 ft. (Corrected).

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 16.65 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 15.3 ft above NGVD. (Corrected).

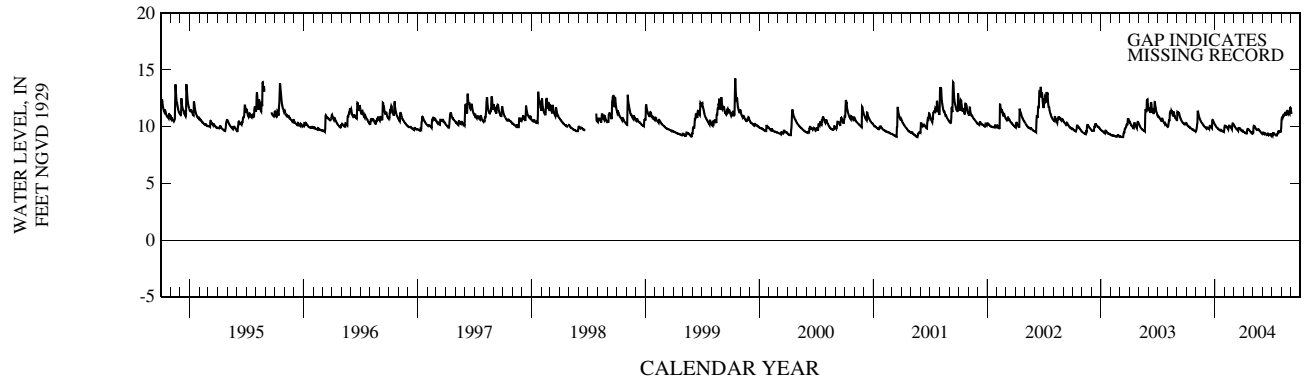
REMARKS.--Well also used for salinity monitoring. Water quality samples were not collected during the 1999 and 2000 water years.

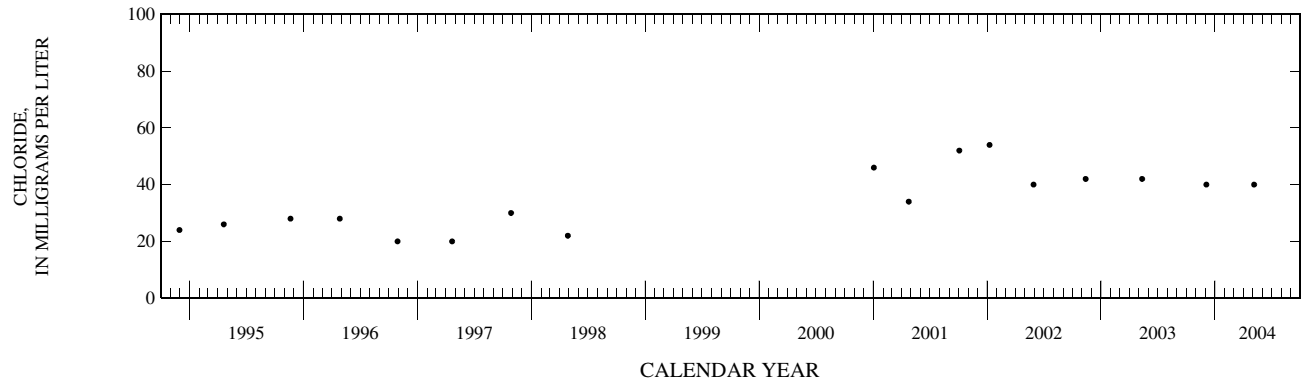
PERIOD OF RECORD.--May 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 14.30 ft NGVD, Nov. 23, 1984; lowest, 4.83 ft NGVD, May 5, 1981.

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	10.10	10.24	9.91	9.95	10.02	9.95	9.48	10.05	9.46	9.43	10.88	---
10	9.97	10.89	9.86	9.83	9.85	9.77	9.39	9.86	9.38	9.31	11.07	---
15	9.85	10.55	10.06	9.70	10.08	9.63	9.79	9.70	9.24	9.22	11.17	---
20	9.75	10.32	9.94	9.71	9.94	9.82	9.67	9.73	9.34	9.40	11.38	---
25	9.66	10.10	10.56	9.57	10.14	9.64	9.48	9.54	9.28	9.56	11.19	---
EOM	9.56	9.93	10.19	9.90	10.20	9.62	9.52	9.37	9.34	9.93	11.37	---
MAX	10.29	11.39	10.58	10.14	10.27	10.14	9.80	10.06	9.47	9.93	11.67	---





PALM BEACH COUNTY—Continued

WELL NUMBER.--264208080192201. Local Number PB 685. USGS Observation Well in West Palm Beach, FL.

LOCATION.--Lat 26°42'08", long 80°19'22", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.26, T.43 S., R.40 E., Hydrologic Unit 03090202, approximately 25 ft east of Lion Country Safari Road, 1.3 mi north of Southern Boulevard (State Road 80), approximately 16 mi west of West Palm Beach.

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, open end.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 19.32 ft above National Geodetic Vertical Datum of 1929. Prior to January 11, 1994, measuring point was top of coupling, 19.49 ft above NGVD. Prior to October 1988, measuring point was top of shelf, 19.94 ft above NGVD.

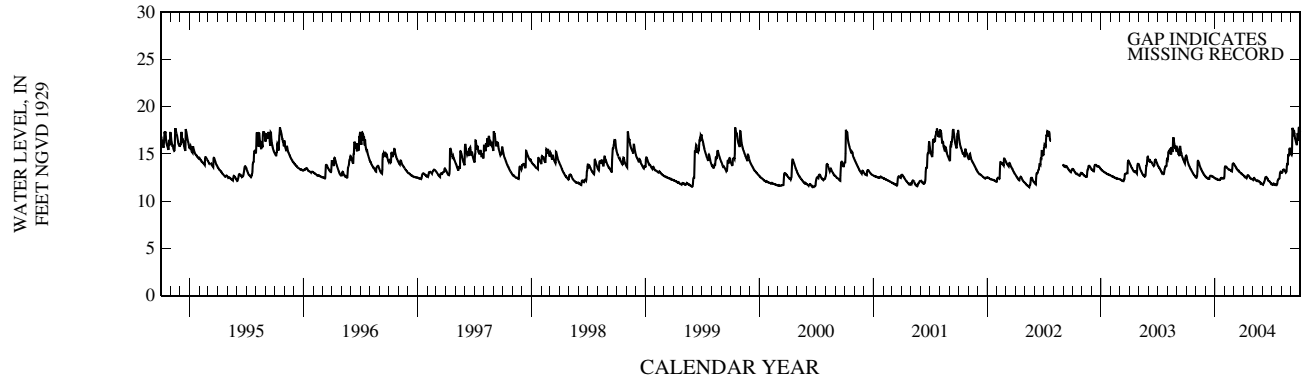
LAND-SURFACE DATUM.--Land surface is approximately 16.8 ft above NGVD. (Corrected).

PERIOD OF RECORD.--October 1973 to May 1977 (daily), October 1988 to September 1990 (semiannual), October 1990 to December 1993 (monthly), January 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 18.21 ft NGVD, Oct. 9, 1973; lowest, 11.49 ft NGVD, May 15, 2002.

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	14.23	13.14	12.49	12.38	13.65	13.74	12.55	12.46	11.95	11.80	13.28	17.75
10	13.73	14.07	12.39	12.28	13.46	13.46	12.49	12.22	12.50	11.73	13.27	17.14
15	13.39	13.59	12.62	12.24	13.33	13.21	12.75	12.12	12.46	11.69	13.04	16.41
20	13.06	13.21	12.66	12.43	13.26	13.07	12.58	12.10	12.16	12.21	13.97	16.67
25	12.80	12.87	12.59	12.39	13.48	12.92	12.41	11.98	12.01	12.41	14.75	17.72
EOM	12.52	12.66	12.43	12.65	13.96	12.78	12.32	11.80	11.84	13.01	15.08	17.33
MAX	14.77	14.27	12.70	12.65	13.99	13.94	12.75	12.46	12.55	13.10	15.55	17.86



PALM BEACH COUNTY—Continued

WELL NUMBER.--264230080120501. Local Number PB 561. USGS Observation Well near Royal Palm Beach, FL.

LOCATION.--Lat 26°42'30", long 80°12'05", in NW ¼ NW ¼ NW ¼ sec.30, T.43 S., R.42 E., Hydrologic Unit 03090202, near intersection of Okeechobee Road (State Road 704) and State Road 7 (U.S. Highway 441), 12.5 mi west of West Palm Beach.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 11.3 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 20.81 ft above National Geodetic Vertical Datum of 1929. Prior to May 1977, top of base was 20.82 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 17.6 ft above NGVD. (Corrected).

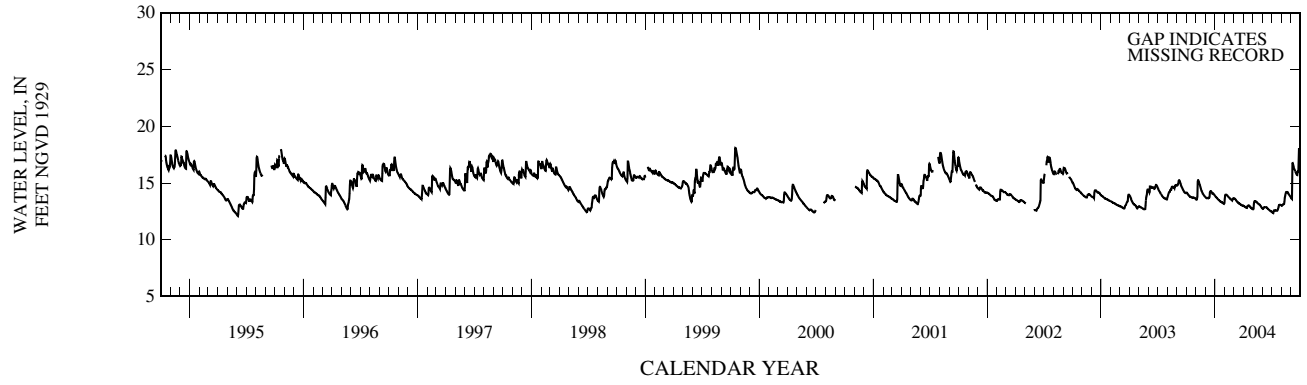
REMARKS.--Records of water levels prior to October 1973, are available in files of the U.S. Geological Survey.

PERIOD OF RECORD.--April 1970 to April 1977, May 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 18.08 ft NGVD, Oct. 16, 1999; lowest, 10.94 ft NGVD, Mar. 1, 1989.

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	14.05	13.81	13.66	13.72	13.97	13.59	12.91	13.30	12.83	12.35	13.09	16.73
10	13.85	15.09	13.66	13.57	13.85	13.41	12.83	13.39	12.86	12.58	13.34	16.30
15	13.77	14.65	14.15	13.45	13.70	13.25	13.00	13.25	12.82	12.58	14.12	15.95
20	13.68	14.23	14.22	13.35	13.57	13.16	12.97	13.13	12.68	12.64	14.20	15.70
25	13.71	13.95	14.09	13.24	13.45	13.05	12.81	13.00	12.56	13.07	13.96	17.30
EOM	13.58	13.77	13.89	13.22	13.65	13.00	12.70	12.77	12.47	13.02	13.71	17.33
MAX	14.15	15.24	14.27	13.85	13.97	13.65	13.02	13.40	12.87	13.08	14.21	18.06



PALM BEACH COUNTY—Continued

WELL NUMBER.--264643080033401. Local Number PB 1726. USGS Observation Well near Riviera Beach, FL.

LOCATION.--Lat 26°46'44", long 80°03'34", in SE ¼ SE ¼ SW ¼ sec.28, T.42 S., R.43 E., Hydrologic Unit 03090202, on north side of W 20th Street between F Avenue and G Avenue, 20 ft west of second well, 0.3 mi west of U.S. Highway 1.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 200 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 15.04 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 15.0 ft above NGVD.

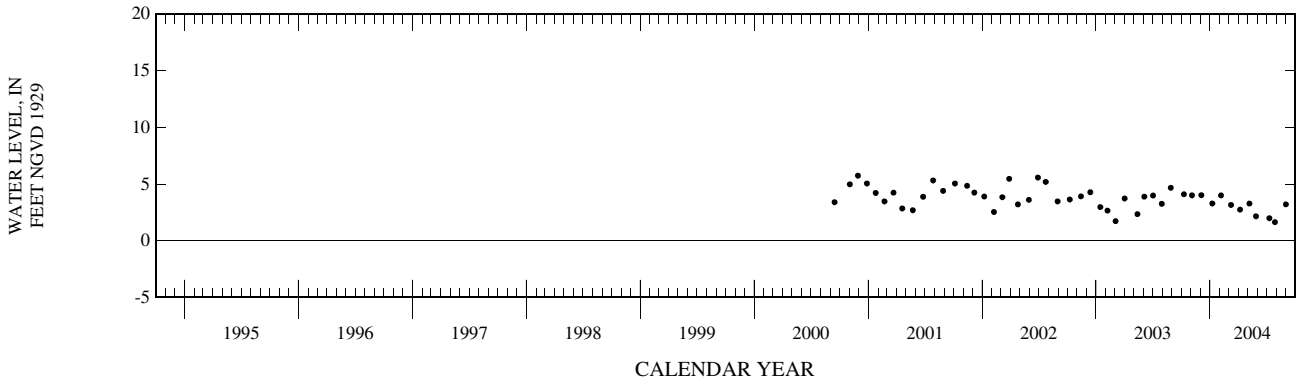
REMARKS.--Well is also used for salinity monitoring. Records of water levels prior to October 2001, are available in the files of the U.S. Geological Survey.

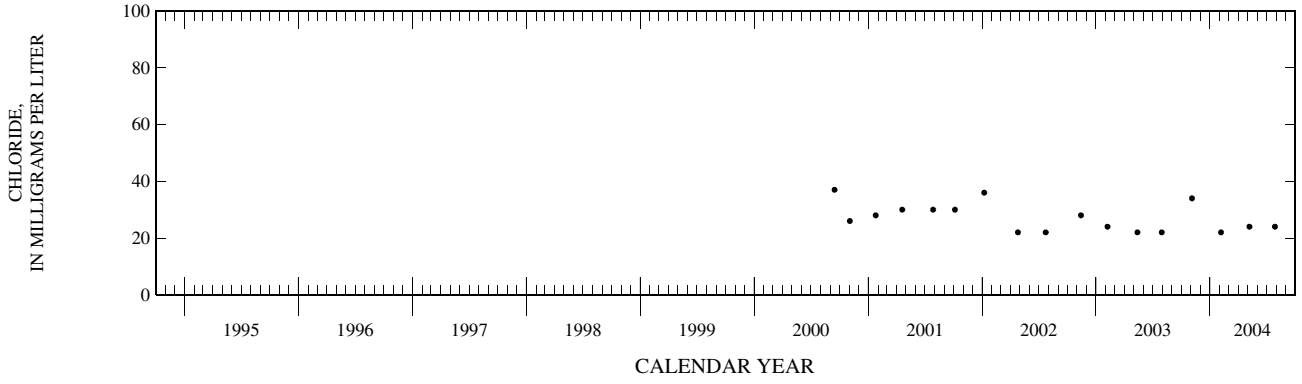
PERIOD OF RECORD.--September 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.73 ft NGVD, Nov. 28, 2000; lowest, 1.64 ft NGVD, July 27, 2004.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
09...	1103	4.09	--	--
NOV				
04...	0950	4.00	431	34.0
DEC				
04...	1150	4.01	--	--
JAN				
08...	1026	3.28	--	--
FEB				
05...	1032	3.99	432	22.0
MAR				
08...	1055	3.15	--	--
APR				
06...	1020	2.74	--	--
MAY				
06...	1114	3.27	443	24.0
27...	0951	2.15	--	--
JUL				
09...	1126	1.98	--	--
27...	1015	1.64	429	24.0
AUG				
31...	0905	3.20	--	--





PALM BEACH COUNTY—Continued

WELL NUMBER.--264717080033501. Local Number PB 1727. USGS Observation Well near Riviera Beach, FL.

LOCATION.--Lat 26°47'18", long 80°03'35", in NE ¼ SE ¼ NW ¼ sec.28, T.42 S., R.43 E., Hydrologic Unit 03090202, on W 32nd Street between Avenue F and Avenue H East, next to wooden fence at the southwestern corner of park, 0.5 mi east of Old Dixie Highway, 0.3 mi north of State Road 708.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 200 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 13.33 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 13.3 ft above NGVD.

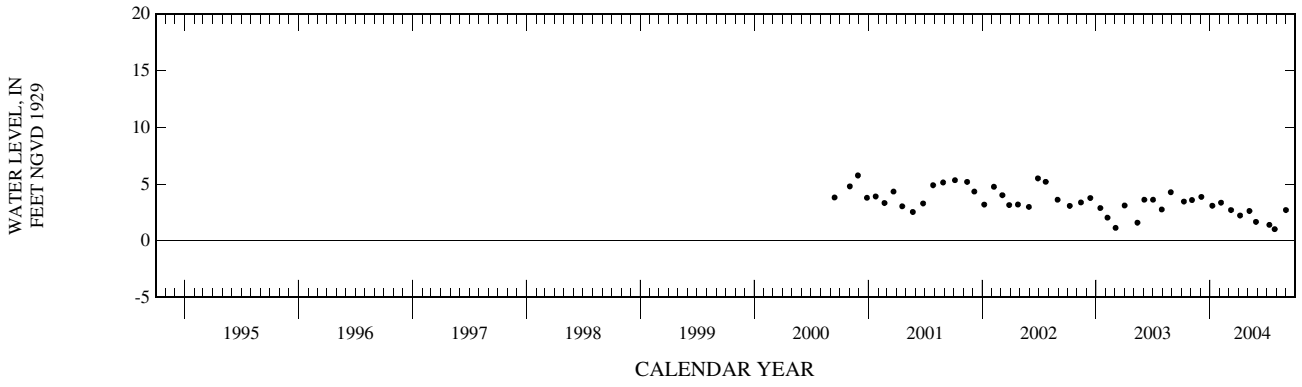
REMARKS.--Well is also used for salinity monitoring. Records of water levels prior to October 2001, are available in the files of the U.S. Geological Survey.

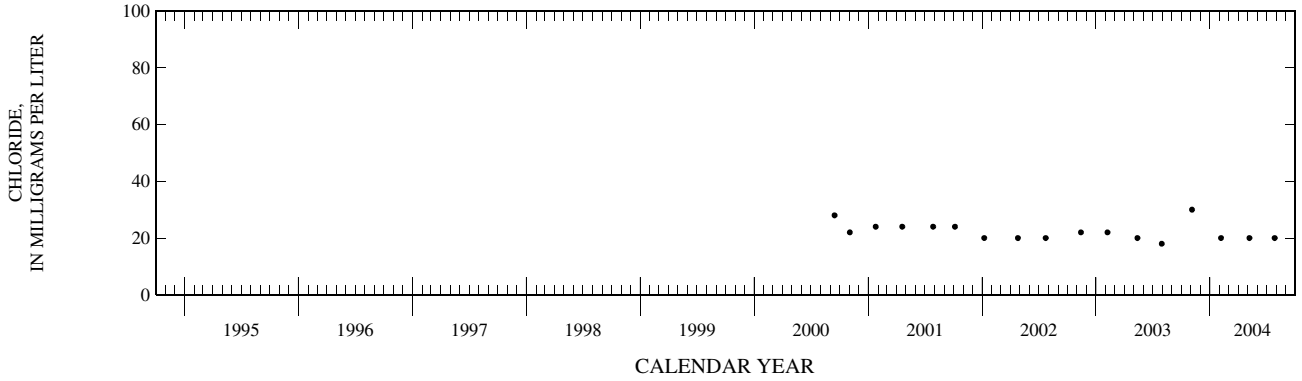
PERIOD OF RECORD.--September 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.75 ft NGVD, Nov. 28, 2000; lowest, 1.02 ft NGVD, July 26, 2004.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
09...	1055	3.45	--	--
NOV				
04...	0916	3.58	472	30.0
DEC				
04...	1142	3.86	--	--
JAN				
08...	1018	3.08	--	--
FEB				
05...	0950	3.35	480	20.0
MAR				
08...	1047	2.70	--	--
APR				
06...	1010	2.22	--	--
MAY				
06...	1003	2.62	486	20.0
27...	0941	1.66	--	--
JUL				
09...	1120	1.40	--	--
26...	0923	1.02	473	20.0
AUG				
31...	0914	2.70	--	--





PALM BEACH COUNTY—Continued

WELL NUMBER.--264839080115001. Local Number PB 1662. USGS Observation Well near West Palm Beach, FL.

LOCATION.--Lat 26°48'39", long 80°11'50", in NE $^1/_4$ NE $^1/_4$ sec.24, T.42 S., R.41 E., Hydrologic Unit 03090202, on Northlake Boulevard at old construction entrance to Ibis Development, 2.7 mi west of State Road 710.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 25 ft, cased to 23 ft, screened from 23 to 25 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 24.56 ft above National Geodetic Vertical Datum of 1929.

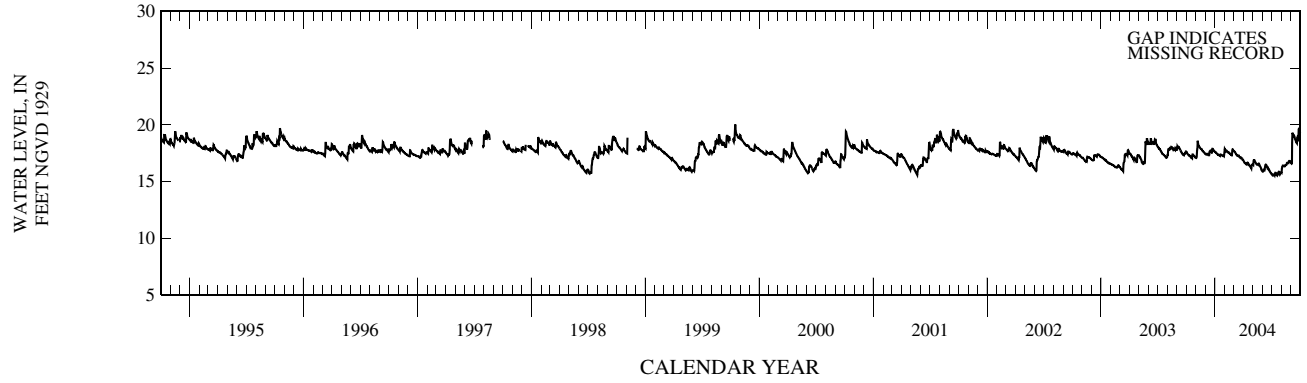
LAND-SURFACE DATUM.--Land surface is approximately 20.6 ft above NGVD. (Corrected).

PERIOD OF RECORD.--October 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 19.98 ft NGVD, Oct. 15, 16, 1999; lowest, 15.52 ft NGVD, July 4, 2004.

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	17.43	17.92	17.42	17.52	17.69	17.58	16.64	16.90	16.04	15.56	16.41	19.31
10	17.28	18.13	17.44	17.39	17.63	17.36	16.51	16.67	16.47	15.57	16.34	18.98
15	17.19	17.92	17.63	17.31	17.55	17.24	16.65	16.50	16.34	15.69	16.46	18.66
20	17.38	17.83	17.61	17.37	17.39	17.13	16.44	16.58	16.12	15.63	16.66	18.82
25	17.28	17.62	17.84	17.27	17.76	17.10	16.23	16.30	15.88	15.76	16.82	19.61
EOM	17.09	17.45	17.63	17.63	17.71	16.91	16.50	15.94	15.69	15.82	16.66	19.26
MAX	17.63	18.60	17.90	17.63	17.88	17.68	16.86	16.90	16.50	15.86	16.83	19.66



PALM BEACH COUNTY—Continued

WELL NUMBER.--264858080044801. Local Number PB 1734. USGS Observation Well near North Palm Beach, FL.

LOCATION.--Lat 26°48'58", long 80°04'49", in SW ¼ SW ¼ NW ¼ sec.17, T.42 S., R.43 E., Hydrologic Unit 03090202, on U.S. Highway 1 Alternate A1A (State Road 811) just north of Hinda Road, 20 ft north from end of eastern side road parallel to U.S. Highway 1 Alternate A1A, 1.2 mi east of U.S. Interstate 95. (Corrected).

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 115 ft, cased to 95 ft, screened 95 to 115 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 10.62 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 10.6 ft above NGVD.

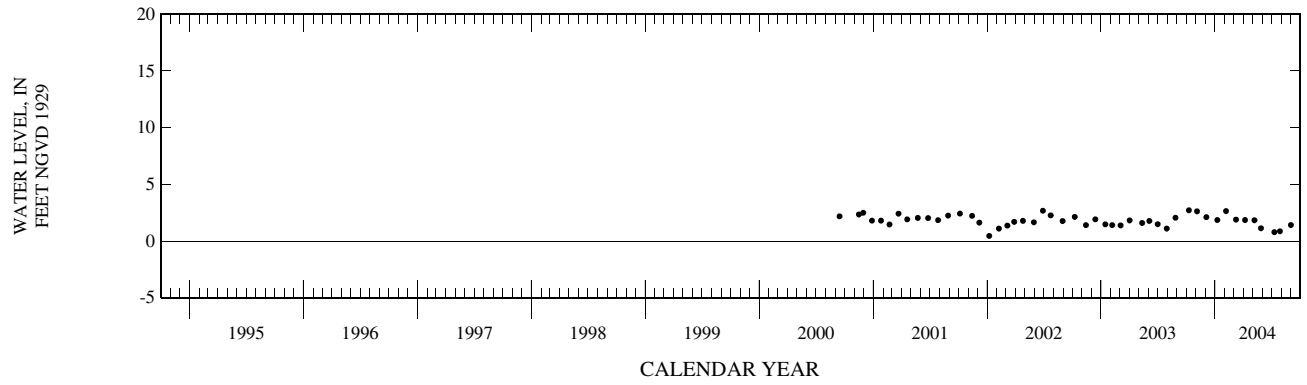
REMARKS.--Well is also used for salinity monitoring. Records of water levels prior to October 2001, are available in the files of the U.S. Geological Survey.

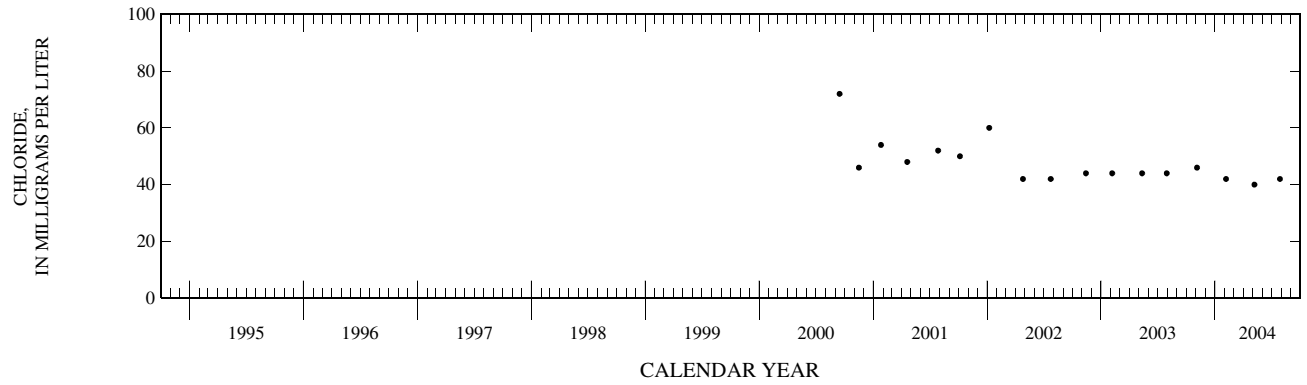
PERIOD OF RECORD.--September 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.71 ft NGVD, Oct. 9, 2003; lowest, 0.45 ft NGVD, Jan. 7, 2002.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
09...	1040	2.71	--	--
NOV				
04...	0850	2.62	460	46.0
DEC				
04...	1127	2.11	--	--
JAN				
08...	0958	1.85	--	--
FEB				
05...	0920	2.64	451	42.0
MAR				
08...	1030	1.89	--	--
APR				
06...	0950	1.85	--	--
MAY				
06...	0920	1.83	461	40.0
27...	0927	1.13	--	--
JUL				
09...	1059	.78	--	--
27...	0852	.86	451	42.0
AUG				
31...	0925	1.41	--	--





PALM BEACH COUNTY—Continued

WELL NUMBER.--265106080241402. Local Number PB 831. USGS Observation Well near Palm Beach Gardens, FL.

LOCATION.--Lat 26°51'04", long 80°24'43", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.2, T.42 S., R.39 E., Hydrologic Unit 03090202, 30 ft west of principal dirt road within J.W. Corbett Wildlife Management Area, 8.7 mi from north entrance at junction of State Road 706 and State Road 710, approximately 15 mi west of Palm Beach Gardens. (Corrected).

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 25 ft, cased to 21 ft, screened from 21 to 25 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 26.47 ft above National Geodetic Vertical Datum of 1929. Prior to October 1988, top of base was incorrectly considered to be 24.90 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 24.0 ft above NGVD. (Corrected).

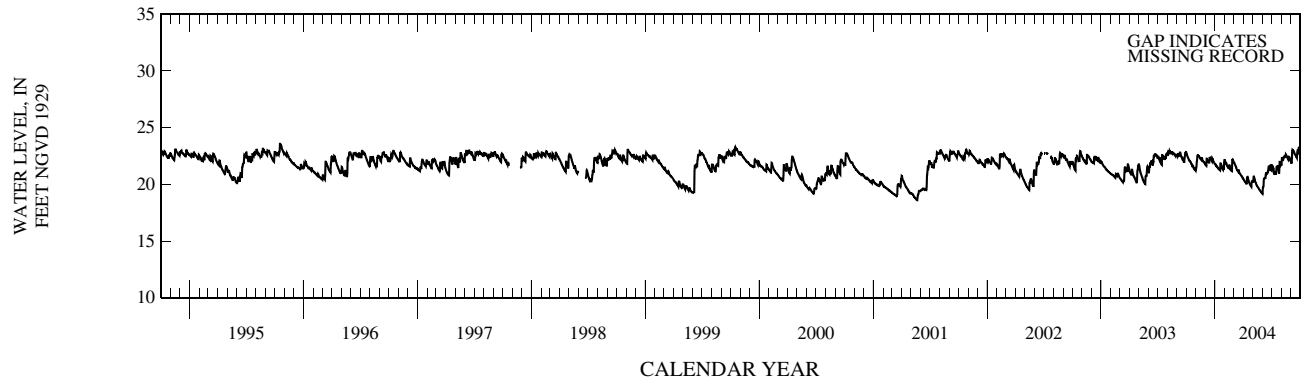
REMARKS.--Previously published figures of water levels as elevations in feet NGVD, prior to October 1988 are in error. Previously corrected figures in the files of the U.S. Geological Survey have been calculated based on an arbitrary 25.0 ft measuring point. A correction of +0.10 ft is required to correct the water-level data. See DATUM. Well was originally open to the aquifer from 21 to 25 ft. The open interval has collapsed or become obstructed at 21 ft.

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

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 23.79 ft NGVD, May 5, 1975; lowest, 18.53 ft NGVD, June 5, 1989.

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	22.44	22.49	22.26	21.63	21.85	21.71	20.26	20.64	20.40	21.39	22.22	23.05
10	22.11	22.48	22.00	21.46	21.54	21.38	20.05	20.16	20.50	20.83	22.31	22.86
15	21.93	22.26	22.32	21.28	21.74	21.12	20.55	19.85	20.97	21.21	22.63	22.55
20	21.68	22.30	22.20	21.78	21.29	20.95	20.12	19.63	21.41	21.60	22.36	22.77
25	21.45	21.99	22.10	21.32	22.17	20.74	19.83	19.40	21.47	21.56	22.41	23.21
EOM	21.26	21.78	21.81	22.14	22.01	20.50	20.29	19.18	21.20	21.73	21.99	---
MAX	22.70	22.57	22.35	22.14	22.20	21.95	20.65	20.68	21.67	21.98	22.63	---



PALM BEACH COUNTY—Continued

WELL NUMBER.--265233080054001. Local Number PB 1642. USGS Observation Well near Juno Beach, Fl.

LOCATION.--Lat 26°52'33", long 80°05'40", in SW $^1/_4$ SW $^1/_4$ NW $^1/_4$ sec.30, T.41 S., R.43 E., Hydrologic Unit 03090202, approximately 250 ft east of State Road 811 (U.S. Highway 1 Alternate A1A), 0.5 mi south of Donald Ross Road, adjacent to the maintenance yard office in the Frenchman's Creek housing development.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4.0 in., depth 21 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 16.05 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 12.3 ft above NGVD. (Corrected).

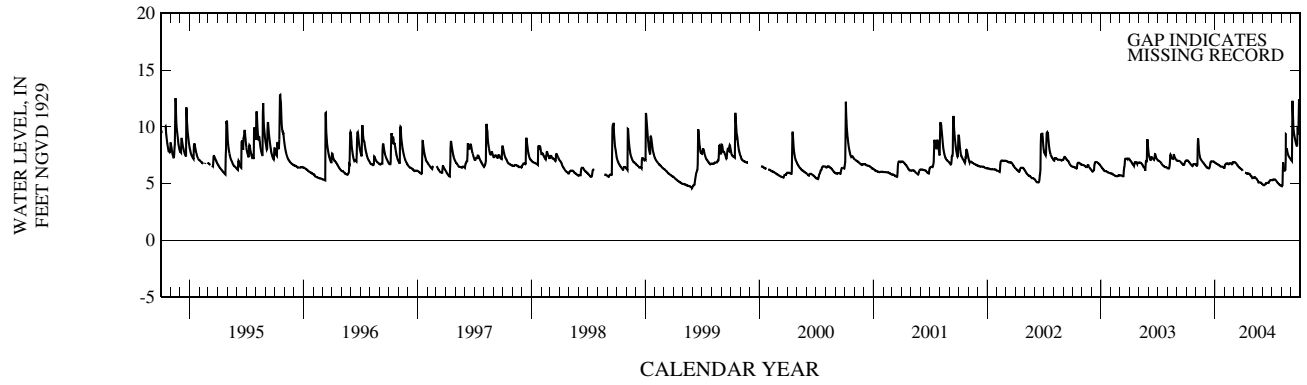
REMARKS.--Well affected by irrigation pumping.

PERIOD OF RECORD.--October 1988 to November 1992 (intermittent), April 1993 to September 1993 (monthly), October 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 12.82 ft NGVD, Oct. 18, 1995; lowest measured, 3.66 ft NGVD, May 9, 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	7.05	6.64	6.44	6.75	6.75	6.87	---	5.57	4.86	5.36	6.27	12.30
10	6.88	7.98	6.36	6.69	6.76	6.74	5.92	5.51	4.98	5.37	6.20	9.40
15	6.69	7.21	6.57	6.60	6.78	6.53	5.90	5.33	5.06	5.25	9.36	8.68
20	6.56	6.98	6.97	6.50	6.79	6.39	5.86	5.11	5.07	5.05	7.75	8.49
25	6.70	6.80	6.96	6.48	6.71	6.28	5.67	5.10	5.29	4.92	7.36	11.07
EOM	6.67	6.62	6.86	6.39	6.90	---	5.48	4.97	5.31	4.81	7.11	9.86
MAX	7.05	8.98	6.97	6.84	6.90	---	---	5.57	5.32	5.37	---	12.41



PALM BEACH COUNTY—Continued

WELL NUMBER.--265550080070701. Local Number PB 1732. USGS Observation Well near Jupiter, FL.

LOCATION.--Lat 26°55'50", long 80°07'08", in NE ¼ SE ¼ SW ¼ sec.2, T.41 S., R.42 E., Hydrologic Unit 03090202, on Commerce Lane, one block east of Commerce Way, 0.3 mi south of State Road 706, 3.3 mi east of U.S. Interstate 95.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 3 in., depth 253 ft, cased to 232 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 8.64 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 7.3 ft above NGVD.

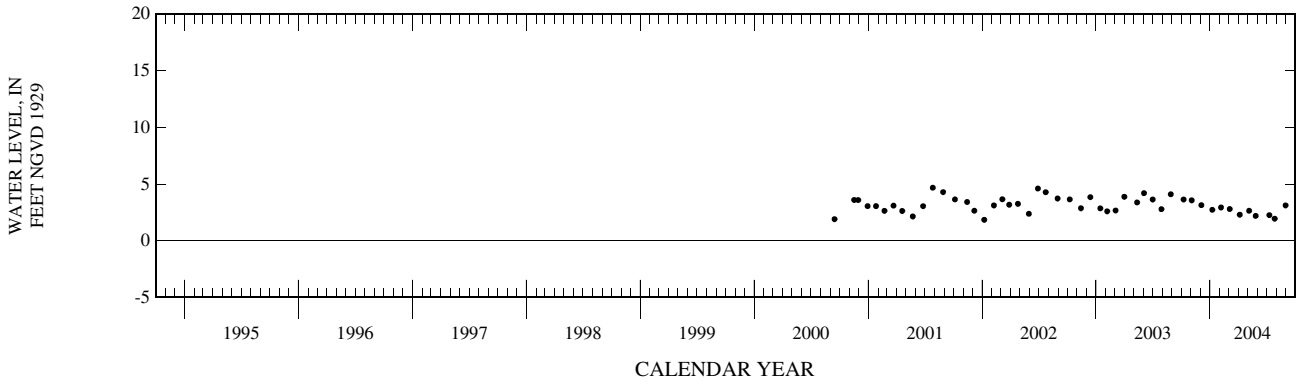
REMARKS.--Well is also used for salinity monitoring. Records of water levels prior to October 2001, are available in the files of the U.S. Geological Survey.

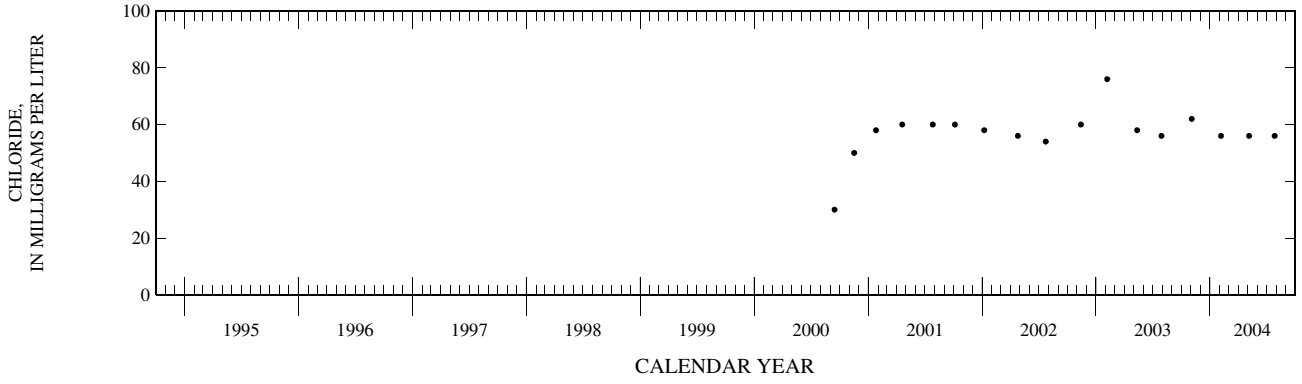
PERIOD OF RECORD.--September 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.67 ft NGVD, July 26, 2001; lowest, 1.84 ft NGVD, Jan. 7, 2002.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
08...	1835	3.63	--	--
NOV				
03...	1710	3.56	662	62.0
DEC				
04...	1102	3.13	--	--
JAN				
08...	0850	2.72	--	--
FEB				
05...	0823	2.93	685	56.0
MAR				
04...	1642	2.79	--	--
APR				
05...	1751	2.29	--	--
MAY				
05...	1902	2.64	679	56.0
26...	1828	2.19	--	--
JUL				
09...	0758	2.25	--	--
26...	1945	1.94	667	56.0
AUG				
30...	1705	3.11	--	--





PALM BEACH COUNTY—Continued

WELL NUMBER.--265611080080201. Local Number PB 1733. USGS Observation Well near Jupiter, FL.

LOCATION.--Lat 26°56'16", long 80°08'01", in SW ¼ SW ¼ NE ¼ sec.3, T.41 S., R.42 E., Hydrologic Unit 03090202, on southeast corner of North Central Boulevard and Riverwalk Road, 0.2 mi north of State Road 706, 1.1 mi east of U.S. Interstate 95.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 3 in., depth 210 ft, cased to 189 ft, screened 189 to 210 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape.

DATUM.--Measuring point: Top of casing, 12.45 ft above National Geodetic Vertical Datum of 1929.

LAND-SURFACE DATUM.--Land surface is approximately 11.4 ft above NGVD.

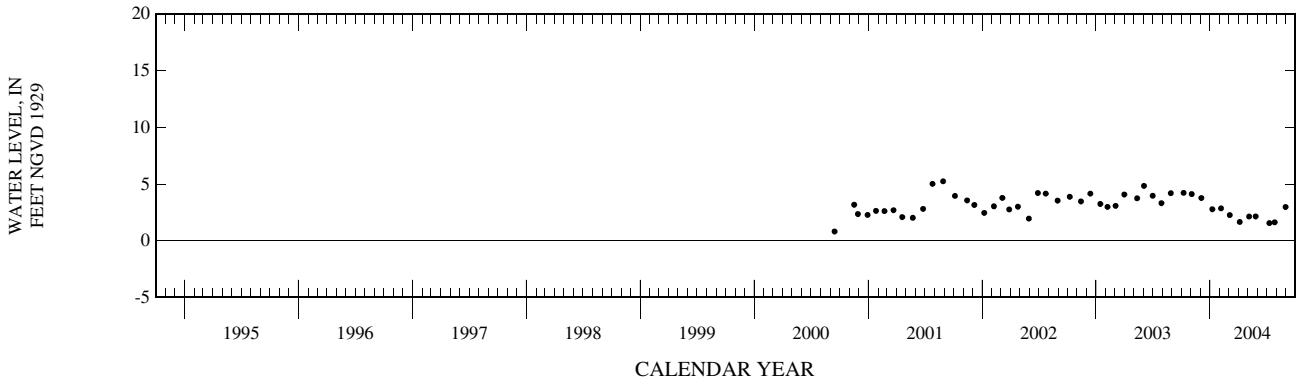
REMARKS.--Well is also used for salinity monitoring. Records of water levels prior to October 2001, are available in the files of the U.S. Geological Survey.

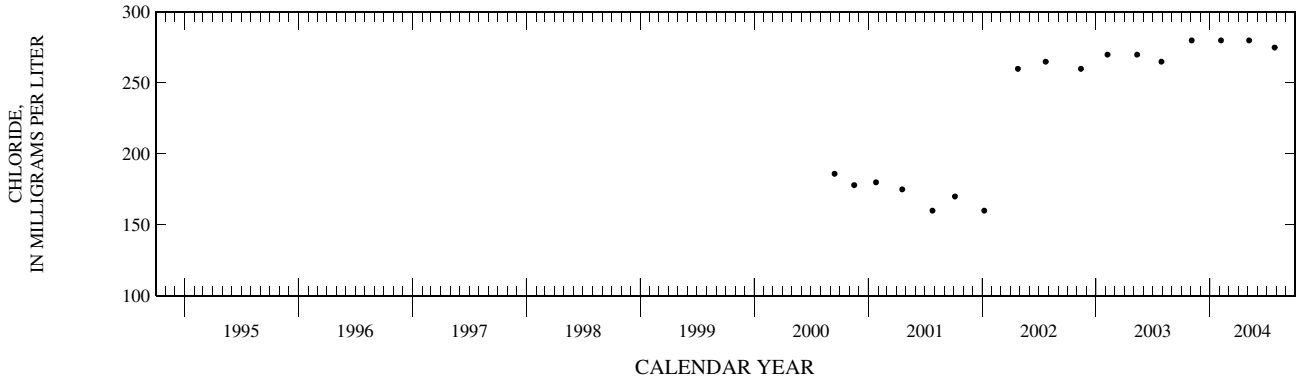
PERIOD OF RECORD.--September 2000 to current year.

EXTREMES FOR PERIOD OR RECORD.--Highest water level measured, 5.23 ft NGVD, Aug. 28, 2001; lowest, 0.81 ft NGVD, Sept. 14, 2000.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Elevation, feet above NGVD (72020)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)
OCT				
08...	1820	4.22	--	--
NOV				
03...	1654	4.11	1,560	280
DEC				
04...	1050	3.76	--	--
JAN				
08...	0900	2.77	--	--
FEB				
05...	0850	2.85	1,580	280
MAR				
04...	1630	2.26	--	--
APR				
05...	1739	1.65	--	--
MAY				
05...	1824	2.13	1,630	280
26...	1811	2.14	--	--
JUL				
09...	0810	1.55	--	--
26...	0722	1.62	1,590	275
AUG				
30...	1650	2.97	--	--





PALM BEACH COUNTY—Continued

WELL NUMBER.--265633080203001. Local Number PB 689. USGS Observation Well near Jupiter, FL.

LOCATION.--Lat 26°56'33", long 80°20'30", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.4, T.41 S., R.40 E., Hydrologic Unit 03090202, on south side of State Road 706, 3.45 mi west of State Road 711 and 0.4 mi east of State Road 710, 12 mi west of Jupiter. (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, open end.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of base, 27.36 ft above National Geodetic Vertical Datum of 1929. From May 22, 2001 to July 2003, top of base was considered to be 27.37 ft above NGVD. From January 1993 to May 22, 2001, top of base was considered to be 27.43 ft above NGVD. From May 1977 to January 1993, top of base was considered to be 27.00 ft above NGVD. Prior to May 1977, measuring point was 27.11 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 25.1 ft above NGVD. (Corrected).

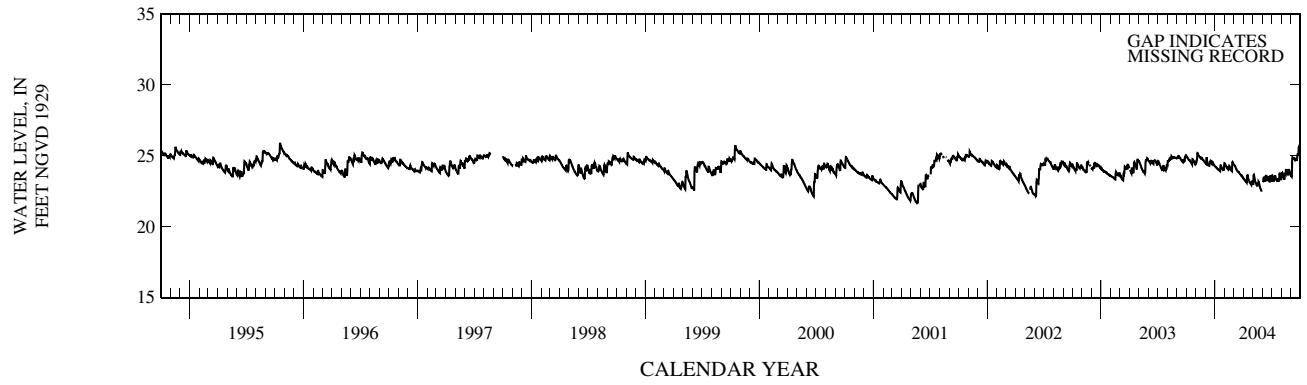
REMARKS.--Figures of water levels as elevation, in feet NGVD, from May 1983 to May 2001 are in error. Corrected records for October 1994 to September 2001 are based on a revised measuring point value of 27.37 ft, and are in the files of the U.S. Geological Survey. See DATUM.

PERIOD OF RECORD.--October 1973 to May 1977 (daily), May 1983 to December 1987 (intermittent), May 1988 to November 1992 (semiannual), January 1993 to December 1993 (monthly), January 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 25.86 ft NGVD, Oct. 17, 18, 1995; lowest, 21.24 ft NGVD, Apr. 11, 1975.

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	24.87	25.20	24.91	24.18	24.30	24.27	23.28	23.58	23.47	23.34	23.73	24.89
10	24.69	25.00	24.38	24.07	24.08	24.03	23.16	23.12	23.39	23.40	23.34	24.80
15	24.57	24.88	24.57	23.97	24.30	23.88	23.51	22.92	23.30	23.37	23.99	24.77
20	24.77	24.85	24.50	24.32	24.03	23.74	23.19	23.13	23.34	23.37	23.84	24.93
25	24.60	24.68	24.53	24.05	24.52	23.61	22.99	22.71	23.56	23.75	24.01	25.58
EOM	24.43	24.52	24.28	24.48	24.43	23.46	23.09	---	23.19	23.29	23.65	25.65
MAX	24.98	25.20	24.91	24.48	24.57	24.40	23.63	---	---	23.76	24.01	25.65



PALM BEACH COUNTY—Continued

WELL NUMBER.--265812080053901. Local Number PB 565. USGS Observation Well in Tequesta, FL.

LOCATION.--Lat 26°58'12", long 80°05'39", in NE ¼ NE ¼ NE ¼ sec.25, T.40 S., R.42 E., Hydrologic Unit 03090202, near intersection of Old Dixie Highway and County Line Road in Tequesta, and 0.1 mi west of U.S. Highway 1.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 21.9 ft, cased to 21.9 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of base, 17.26 ft above National Geodetic Vertical Datum of 1929. Prior to July 2, 1999, measuring point was 17.24 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 14.5 ft above NGVD. (Corrected).

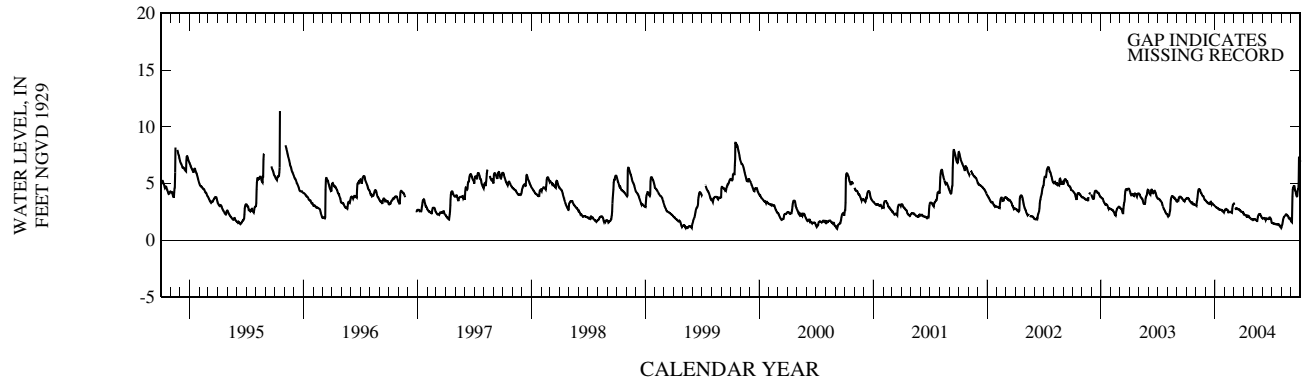
REMARKS.--Station reconstructed July 1999, after site was hit by a car. Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey. See DATUM.

PERIOD OF RECORD.--April 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 11.39 ft NGVD, Oct. 17, 1995; lowest, 0.23 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	3.74	3.68	3.41	2.90	2.76	---	2.26	1.88	1.96	1.48	1.67	3.85
10	3.57	4.50	3.25	2.83	2.68	2.83	2.20	1.81	1.86	1.47	2.11	4.78
15	3.35	4.32	3.22	2.73	2.53	2.75	2.18	1.71	1.91	1.42	2.27	4.32
20	3.31	4.03	3.21	2.69	2.51	2.67	2.02	2.28	1.89	1.44	2.18	3.91
25	3.18	3.86	3.20	2.57	2.78	2.52	1.89	2.25	2.02	1.35	1.92	5.08
EOM	3.09	3.56	3.03	2.54	3.22	2.47	1.88	1.96	1.56	1.10	1.73	6.94
MAX	3.74	4.50	3.54	3.00	3.22	---	2.42	2.33	2.02	1.53	2.28	7.33



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St. Lucie County

Key to site locations on figure # 21

ST. LUCIE COUNTY

Index Number	Site Number	Well Name	Page Number
1	272655080401601	STL 42	598
2	272524080242801	STL 125	597
3	272313080182701	STL 172	595
4	271755080153001	STL 175	592
5	271755080153002	STL 176	593
6	271413080311201	STL 185	590
7	272427080240201	STL 213	596
8	271618080245801	STL 214	591
9	273109080270301	STL 264	599
10	272138080374103	STL 313	594

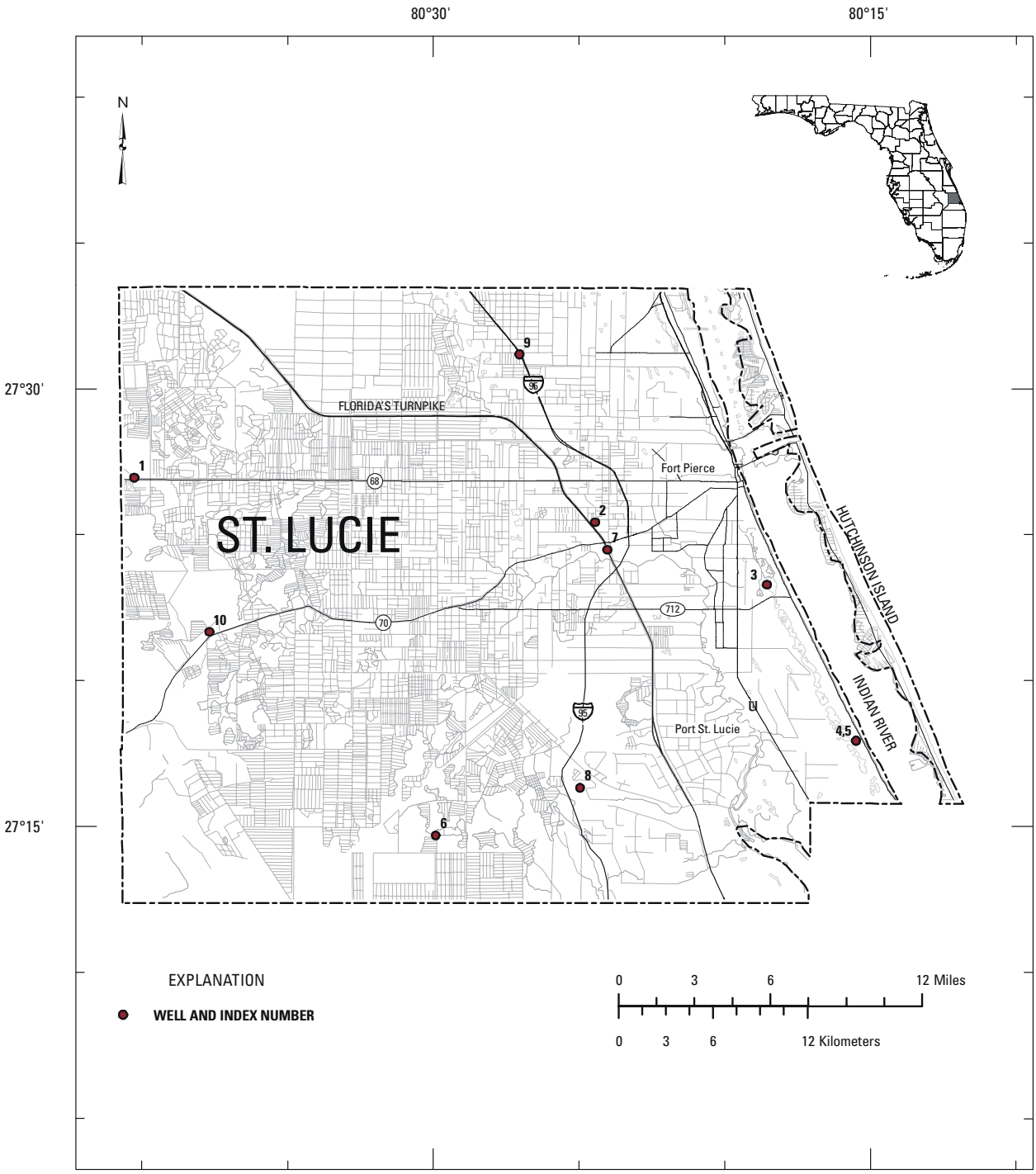


Figure 21. Location of wells in St. Lucie County

ST. LUCIE COUNTY

WELL NUMBER.--271413080311201. Local Number STL 185. USGS Observation Well near Port St. Lucie, FL.

LOCATION.--Lat 27°14'40", long 80°29'55", in SE ¼ SE ¼ NE ¼ sec.23, T.37 S., R.38 E., Hydrologic Unit 03090202, 1 mi west of County Road 609 and 3 mi south of County Road 709 in pasture of McCarty Ranch. Ranch entrance is on County Road 709, recorder is 4 gates and 5 pastures to the south, 20 ft west of southern gate.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 115 ft, cased to 113 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 30.33 ft above National Geodetic Vertical Datum of 1929.

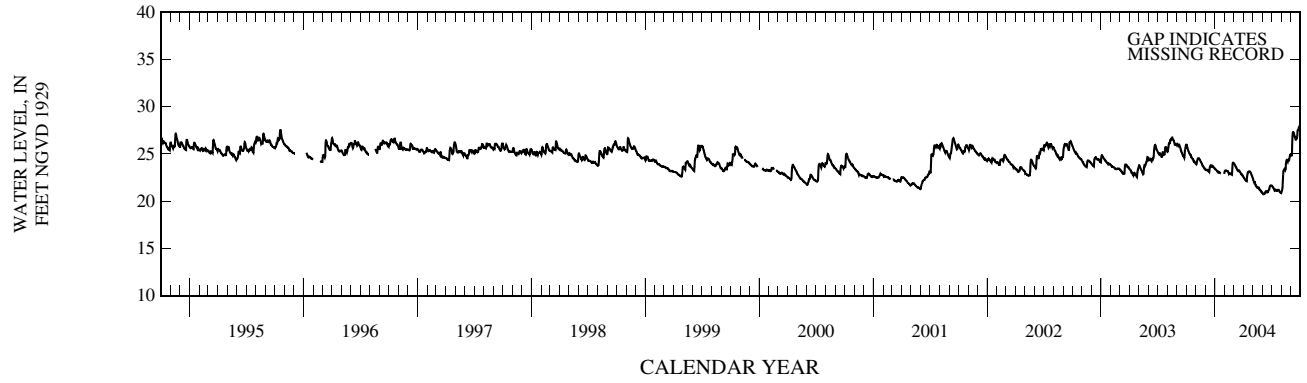
LAND-SURFACE DATUM.--Land surface is approximately 27.9 ft above NGVD.

PERIOD OF RECORD.--September 1976 to April 1977 (intermittent), May 1988 to October 1988 (semiannual), October 1989 to November 1992 (annual), January 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 27.81 ft NGVD, Sept. 26, 2004; lowest, 20.74 ft NGVD, June 3-5, 2004.

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	25.58	24.30	23.28	23.29	23.25	23.80	22.34	21.99	20.74	21.43	22.11	26.78
10	25.10	24.53	23.24	23.08	23.19	23.49	22.14	21.68	20.98	21.11	23.40	27.15
15	24.86	24.27	23.60	23.05	22.96	23.18	23.03	21.42	21.04	21.15	23.94	26.52
20	24.49	23.94	23.75	---	22.94	23.11	23.15	21.43	21.09	21.21	24.30	26.87
25	24.18	23.64	23.68	---	23.43	22.90	22.95	21.12	21.59	21.07	24.33	27.73
EOM	23.97	23.41	23.46	23.04	24.05	22.65	22.52	20.88	21.66	20.87	24.92	27.44
MAX	25.98	24.54	23.80	---	24.06	24.01	23.15	22.38	21.67	21.59	24.92	27.81



ST. LUCIE COUNTY—Continued

WELL NUMBER.--271618080245801. Local Number STL 214. USGS Observation Well near Port St. Lucie, FL.

LOCATION.--Lat 27°16'18", long 80°24'58", in SW ¼ SW ¼ NW ¼ sec.11, T.37 S., R.39 E., Hydrologic Unit 03090202, approximately 20 ft south of centerline of SW Savage Boulevard and 153 ft east of centerline of SW Brescia Street, approximately 2.5 mi west of Port St. Lucie Boulevard.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 70 ft, cased to 40 ft. (Corrected).

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 28.40 ft above National Geodetic Vertical Datum of 1929 Prior to February 1993, measuring point was top of casing, 28.27 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 27.3 ft above NGVD.

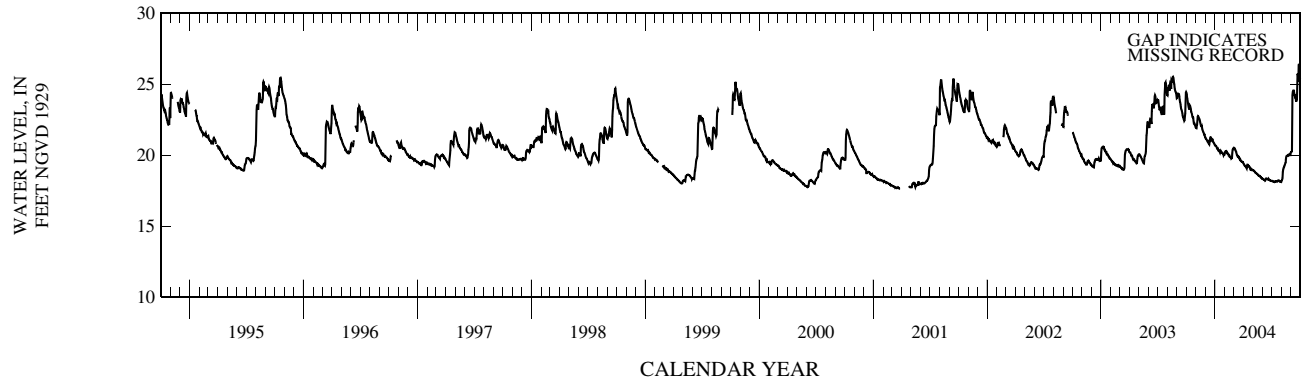
REMARKS.--This well is not at its original depth. Depth was measured at 58.3 ft below land-surface datum on December 27, 1999. The difference between the original and measured depth is likely caused by sand in the formation being forced up the well under hydrostatic pressure.

PERIOD OF RECORD.--May 1988 to October 1989 (semiannual), September 1990 to January 1993 (monthly), February 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 26.44 ft NGVD, Sept. 26, 2004; lowest, 17.64 ft NGVD, Mar. 25, 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	23.81	22.42	21.09	20.62	20.27	20.40	19.27	18.89	18.29	18.14	18.80	24.24
10	23.22	22.63	20.96	20.47	20.15	20.12	19.13	18.75	18.23	18.11	19.27	24.44
15	23.28	22.24	21.08	20.28	20.01	19.88	19.32	18.67	18.34	18.16	19.71	24.01
20	22.70	21.94	21.17	20.25	19.87	19.72	19.20	18.55	18.34	18.21	19.95	24.99
25	22.24	21.60	21.01	20.14	20.16	19.57	19.01	18.49	18.23	18.16	20.04	26.35
EOM	21.96	21.29	20.73	20.04	20.51	19.49	18.96	18.36	18.18	18.12	20.21	25.45
MAX	24.40	22.76	21.25	20.69	20.51	20.53	19.42	18.95	18.36	18.23	20.21	26.44



ST. LUCIE COUNTY—Continued

WELL NUMBER.--271755080153001. Local Number STL 175. USGS Observation Well near Port St. Lucie, FL.

LOCATION.--Lat 27°17'55", long 80°15'30", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.32, T.36 S., R.41 E., Hydrologic Unit 03090202, 4 ft from north edge of Walton Road, 0.5 mi west of Indian River Drive (County Road 707) approximately 15 ft east of STL-176.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 200 ft, cased to 68 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 21.66 ft above National Geodetic Vertical Datum of 1929. From May 1988 to January 1993, measuring point was top of shelf, 21.97 ft above NGVD. Prior to 1980, top of base was 21.74 ft above NGVD, but was reported as being about 23 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 18.7 ft above NGVD.

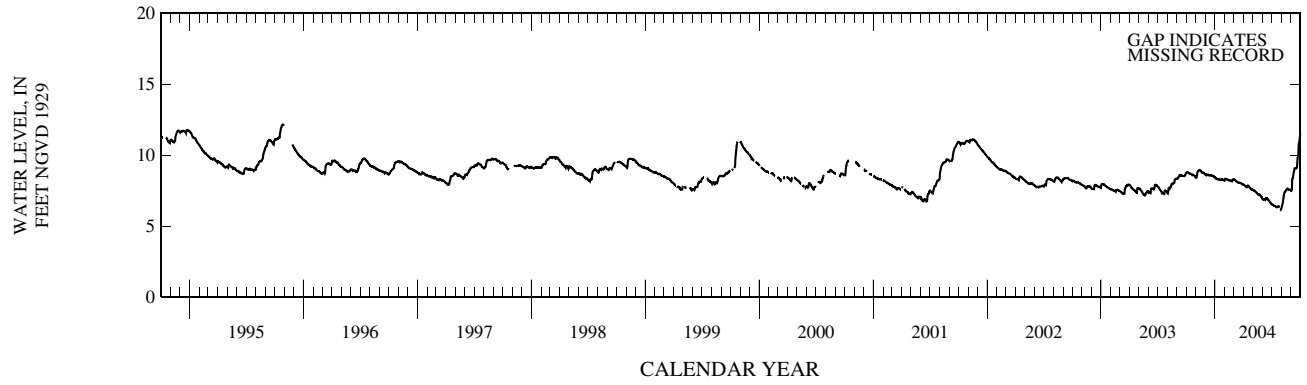
REMARKS.--Despite attempts to clear the well to its full depth, the well has filled with sand from the formation to a depth of 54.5 ft. (Revised). Station reconstructed in February 1993.

PERIOD OF RECORD.--February 1975 to January 1979 (daily), May 1988 to January 1993 (intermittent), February 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 12.17 ft NGVD, Oct. 26, 1995; lowest, 6.01 ft NGVD, July 28, 1977.

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	8.81	8.76	8.58	8.36	8.33	8.23	7.87	7.51	6.88	6.48	6.66	8.34
10	8.75	8.95	8.62	8.31	8.29	8.14	7.76	7.42	6.87	6.43	7.33	8.89
15	8.69	8.91	8.61	8.28	8.23	8.06	7.87	7.32	6.97	6.36	7.51	9.10
20	8.62	8.78	8.58	8.30	8.21	8.06	7.75	7.25	6.85	6.39	7.64	9.40
25	8.58	8.76	8.56	8.27	8.22	8.00	7.62	7.15	6.68	6.34	7.56	10.78
EOM	8.42	8.66	8.45	8.21	8.30	7.94	7.56	6.95	6.54	6.21	7.50	11.52
MAX	8.81	8.96	8.66	8.44	8.34	8.31	7.93	7.56	6.99	---	7.64	11.52



ST. LUCIE COUNTY—Continued

WELL NUMBER.--271755080153002. Local Number STL 176. USGS Observation Well near Port St. Lucie, FL.

LOCATION.--Lat 27°17'55", long 80°15'30", in NW ¼ NW ¼ SE ¼ sec.32, T.36 S., R.41 E., Hydrologic Unit 03090202, 4 ft from north edge of Walton Road, 0.5 mi west of Indian River Drive (County Road 707) approximately 15 ft west of STL-175.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 30 ft, cased to 26 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 22.20 ft above National Geodetic Vertical Datum of 1929. From May 1988 to November 1992, measuring point was top of shelf, 22.60 ft above NGVD. Prior to 1980, top of base was 22.30 ft above NGVD, but was reported as being about 23 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 18.8 ft above NGVD.

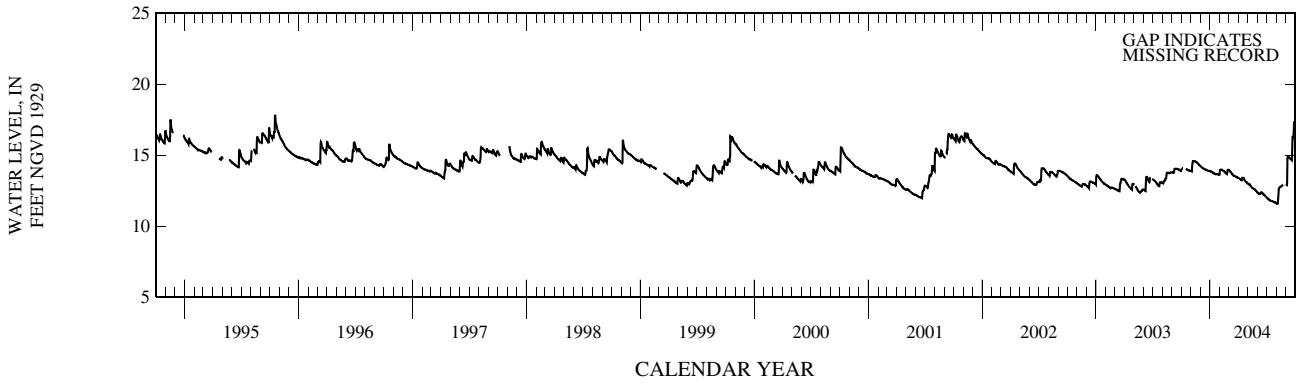
REMARKS.--Despite attempts to clear the well to its full depth, the well has filled with sand from the formation to a depth of 12.4 ft. (Revised). Station reconstructed in February 1993.

PERIOD OF RECORD.--February 1974 to January 1979 (daily), May 1988 to November 1992 (semiannual), February 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 17.79 ft NGVD, Oct. 17, 18, 1995; lowest, 10.58 ft NGVD, Sept. 1, 1977.

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	14.04	14.39	14.15	13.84	13.99	13.87	13.34	12.95	12.28	11.92	11.61	14.79
10	---	14.59	14.06	13.77	13.94	13.74	13.25	12.84	12.27	11.83	12.72	14.84
15	14.03	14.56	14.00	13.70	13.86	13.58	13.41	12.70	12.38	11.78	12.79	14.73
20	13.98	14.47	13.96	13.67	13.75	13.53	13.27	12.63	12.24	11.74	12.90	15.29
25	13.93	14.37	13.91	13.66	13.77	13.47	13.13	12.55	12.15	11.69	---	16.53
EOM	13.89	14.25	13.88	13.62	13.97	13.40	13.02	12.40	12.02	11.63	12.92	17.07
MAX	---	14.59	14.23	13.87	13.99	13.95	13.41	13.00	12.38	12.00	---	17.30



ST. LUCIE COUNTY—Continued

WELL NUMBER.--272138080374103. Local Number STL 313. USGS Observation Well near Okeechobee, FL.

LOCATION.--Lat 27°21'38", long 80°37'41", in SW ¼ SW ¼ NW ¼ sec.10, T.36 S., R.37 E., Hydrologic Unit 03090202, approximately 400 ft north of State Road 70 and 150 ft west of Old Bessimer Road near V-2 Ranch, 14 mi northeast of Okeechobee, northwest of microwave tower.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 122 ft, cased to 40 ft. Sand has filled in the well to a depth of 40 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 31.69 ft above National Geodetic Vertical Datum of 1929.

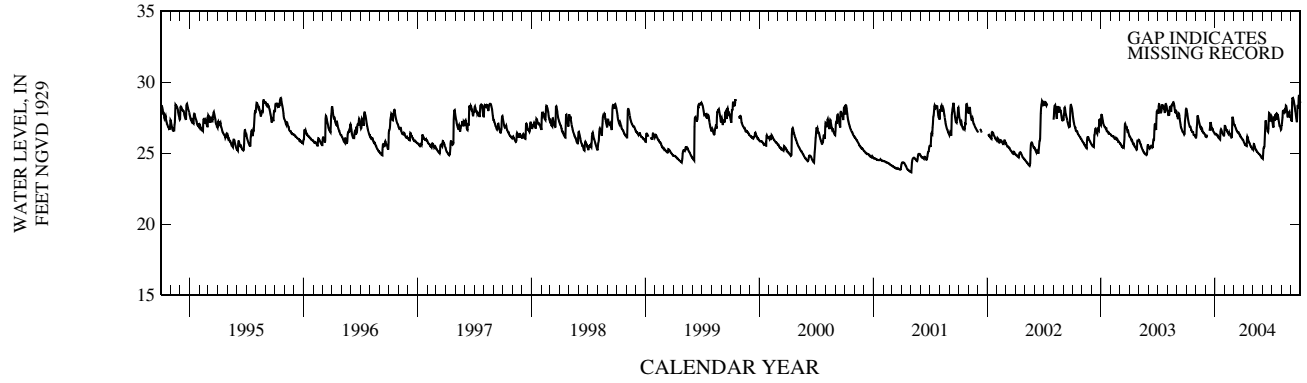
LAND-SURFACE DATUM.--Land surface is approximately 29.1 ft above NGVD.

PERIOD OF RECORD.--January 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 29.12 ft NGVD, Sept. 26, 2004; lowest, 23.66 ft NGVD, May 2, 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	27.61	27.54	26.16	26.34	26.70	26.91	25.66	25.63	25.39	26.87	27.97	28.92
10	27.01	27.27	---	26.23	26.48	26.64	25.52	25.30	27.15	27.28	27.99	28.59
15	26.78	26.82	26.71	26.04	26.47	26.45	26.04	25.10	26.77	27.35	28.36	27.84
20	26.50	26.72	26.83	26.69	26.23	26.27	25.74	24.96	26.74	27.69	27.66	27.76
25	26.28	26.45	26.63	26.40	27.43	26.09	25.45	24.85	27.56	26.94	27.89	28.91
EOM	26.11	26.26	26.38	26.56	27.19	25.93	25.32	24.67	27.58	26.69	27.43	28.53
MAX	28.12	27.66	---	26.69	27.57	27.11	26.18	25.64	27.84	27.80	28.36	29.12



ST. LUCIE COUNTY—Continued

WELL NUMBER.--272313080182701. Local Number STL 172. USGS Observation Well near Port St. Lucie, FL.

LOCATION.--Lat 27°23'15", long 80°18'34", in NW ¼ NW ¼ SE ¼ sec.35, T.35 S., R.40 E., Hydrologic Unit 03090202, in Savannah Recreation Area, approximately 200 ft east of entrance booth and 15 ft east of STL 298, approximately 0.5 mi north of Midway Road (County Road 712) on Gun Club Road.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 30 ft, cased to 26 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 20.38 ft above National Geodetic Vertical Datum of 1929. Prior to October 1993, top of base was 20.40 ft above NGVD. Prior to 1980, the measuring point was reported as top of casing, 18 ft above NGVD.

LAND-SURFACE DATUM.--Land surface is approximately 16.5 ft above NGVD.

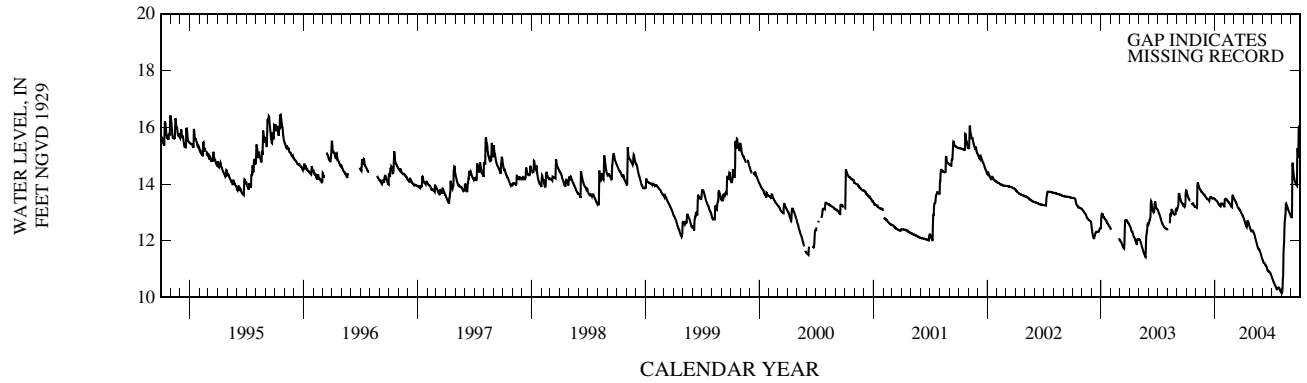
REMARKS.--Station number published incorrectly as 272315080182701 in WDR FL-97-2B 1997. Despite attempts to clear the well to its full depth, the well has filled with sand from the formation to a depth 12.9 ft. (Revised).

PERIOD OF RECORD.--February 1975 to June 1975 (intermittent), June 1975 to February 1979 (daily), May 1988 to October 1989 (semiannual), September 1990 to September 1993 (monthly), October 1993 to current year. (Corrected).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 16.44 ft NGVD, Oct. 19, 1995; lowest, 10.15 ft NGVD, Aug. 2, 2004.

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	13.59	13.93	13.49	13.41	13.47	13.41	12.69	12.25	11.22	10.59	10.65	14.72
10	13.46	13.92	13.44	13.35	13.41	13.31	12.50	12.05	11.15	10.46	12.43	14.23
15	13.37	13.79	13.51	13.25	13.33	13.16	12.69	11.84	11.03	10.34	13.31	14.03
20	13.28	13.71	13.53	13.31	13.24	13.08	12.53	11.71	10.92	10.34	13.19	14.96
25	13.26	13.64	13.50	13.29	13.52	12.97	12.37	11.58	10.88	10.32	13.02	15.99
EOM	13.19	13.57	13.46	13.21	13.53	12.85	12.36	11.37	10.75	10.18	12.86	15.79
MAX	---	14.03	13.55	13.45	13.59	13.50	12.82	12.36	11.33	10.72	13.32	16.01



ST. LUCIE COUNTY—Continued

WELL NUMBER.--272427080240201. Local Number STL 213. USGS Observation Well near Fort Pierce, FL.

LOCATION.--Lat 27°24'27", long 80°24'02", in SE ¼ NE ¼ NE ¼ sec.26, T.35 S., R.39 E., Hydrologic Unit 03090202, 15 ft east of Gordy Road, 1 mi south of State Road 70. The intersection of Gordy Road and State Road 70 is one block west of the Florida Turnpike.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 115 ft, cased to 75 ft, screened 75 to 115 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 20.29 ft above National Geodetic Vertical Datum of 1929. Prior to June 22, 1998, top of base was 20.36 ft above NGVD. Prior to January 1993, measuring point was top of casing, 20.26 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 17.8 ft above NGVD.

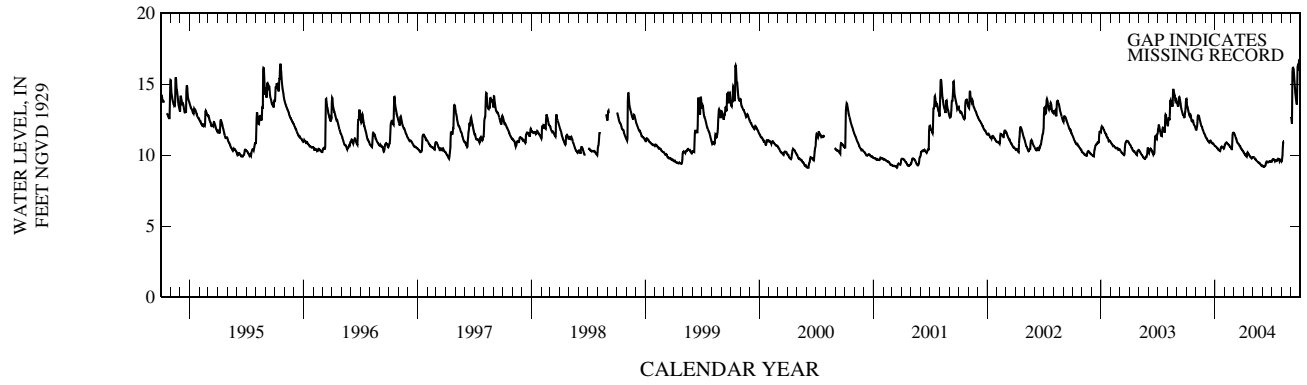
REMARKS.--Revised measuring point because of station reconstruction, and survey of July 2, 1998.

PERIOD OF RECORD.--May 1988 to October 1989 (intermittent), September 1990 to December 1992 (monthly), January 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 16.72 ft NGVD, Sept. 27, 2004; lowest water level measured, 8.91 ft NGVD, Oct. 27, 1988.

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	13.37	12.30	11.17	10.58	10.88	11.39	10.09	9.84	9.20	9.72	10.55	15.87
10	12.87	12.75	11.00	10.46	10.81	11.08	9.92	9.70	9.27	9.63	---	15.74
15	12.82	12.31	10.97	10.35	10.70	10.81	10.17	9.57	9.56	9.63	---	14.17
20	12.39	12.00	10.91	10.58	10.56	10.64	10.00	9.46	9.54	9.75	---	14.68
25	12.17	11.65	10.83	10.58	10.93	10.44	9.82	9.38	9.56	9.62	---	16.02
EOM	11.86	11.39	10.65	10.55	11.59	10.28	9.87	9.26	9.54	9.59	12.71	16.42
MAX	13.97	12.80	11.34	10.64	11.59	11.58	10.25	9.88	9.57	9.75	---	16.72



ST. LUCIE COUNTY—Continued

WELL NUMBER.--272524080242801. Local Number STL 125. USGS Observation Well near Fort Pierce, FL.

LOCATION.--Lat 27°25'24", long 80°24'28", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.23, T.35 S., R.39 E., Hydrologic Unit 03090202, on Rock Road, 0.14 mi south of White Road, 0.53 mi west of Kings Highway, and 5.0 mi south of Fort Pierce.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 11.77 ft, cased to 11.77 ft.

INSTRUMENTATION.--Satellite data collection platform.

DATUM.--Measuring point: Top of flange, 23.15 ft above National Geodetic Vertical Datum of 1929. Prior to January 31, 2001, measuring point was top of base, 23.22 ft above NGVD. Prior to April 25, 2000, measuring point was top of casing, 23.16 ft above NGVD. Prior to August 1990, measuring point was considered to be top of casing, 22.75 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 20.2 ft above NGVD.

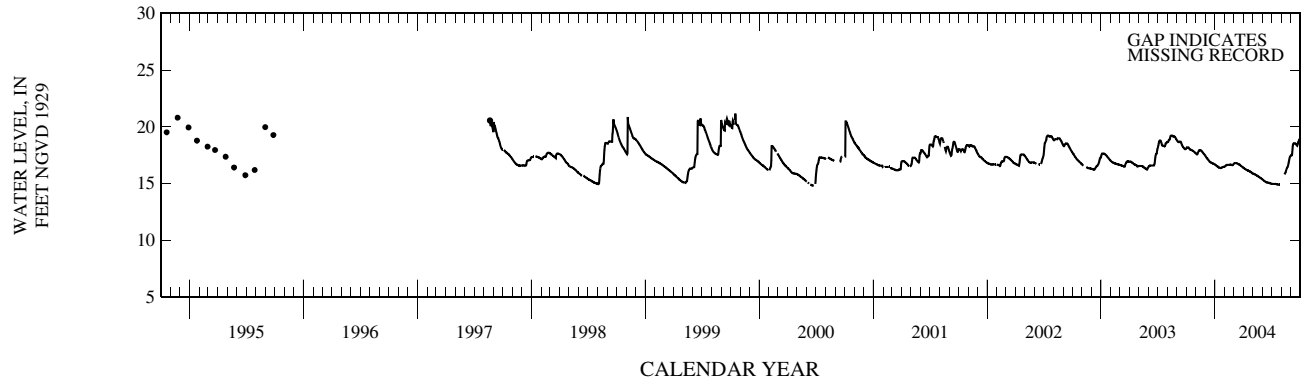
REMARKS.--Records of water levels prior to October 1973 are available in files of the U.S. Geological Survey. The figures of water levels, as elevation in feet NGVD, prior to August 1990 are in error. A +0.41 ft correction is required to correct the water-level data. See DATUM.

PERIOD OF RECORD.--August 1967(intermittent), January 1968 to April 1979 (daily), October 1979 to September 1995 (monthly), August 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 21.17 ft NGVD, Oct. 16, 1999; lowest water level measured, 13.94 ft NGVD (present datum), June 24, 1987.

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	18.19	17.58	17.27	16.58	16.60	16.81	16.31	15.84	15.27	14.98	---	17.97
10	18.09	17.90	17.09	16.50	16.65	16.81	16.22	15.78	15.16	14.97	15.82	18.56
15	17.98	17.95	16.92	16.40	16.66	16.73	16.15	15.70	15.11	14.96	16.08	18.52
20	17.90	17.83	16.84	16.37	16.67	16.67	16.10	15.60	15.08	14.92	16.45	18.33
25	17.82	17.64	16.78	16.45	16.63	16.54	16.01	15.50	15.02	14.91	17.04	18.66
EOM	17.69	17.48	16.69	16.49	16.73	16.41	15.90	15.39	14.99	---	17.50	18.92
MAX	18.19	17.95	17.44	16.67	16.73	16.81	16.39	15.89	15.37	---	---	18.92



ST. LUCIE COUNTY—Continued

WELL NUMBER.--272655080401601. Local Number STL 42. USGS Observation Well near Fort Pierce, FL.

LOCATION.--Lat 27°26'55", long 80°40'16", in SE $^1/_4$ NW $^1/_4$ sec.7, T.35 S., R.37 E., Hydrologic Unit 03090202, 85 ft north of State Road 68, 9.8 mi east of U.S. Highway 441 and 20 mi west of Fort Pierce.

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

WELL CHARACTERISTICS.--Jetted, observation, water-table well, diameter 6 in., depth 18 ft, cased to 13 ft, gravel-packed 13 to 18 ft.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 30.71 ft above National Geodetic Vertical Datum of 1929. From October 1990 to January 1993, measuring point was top of casing, 30.67 ft above NGVD. Prior to October 1990, top of casing was considered to be 30.59 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 28.0 ft above NGVD.

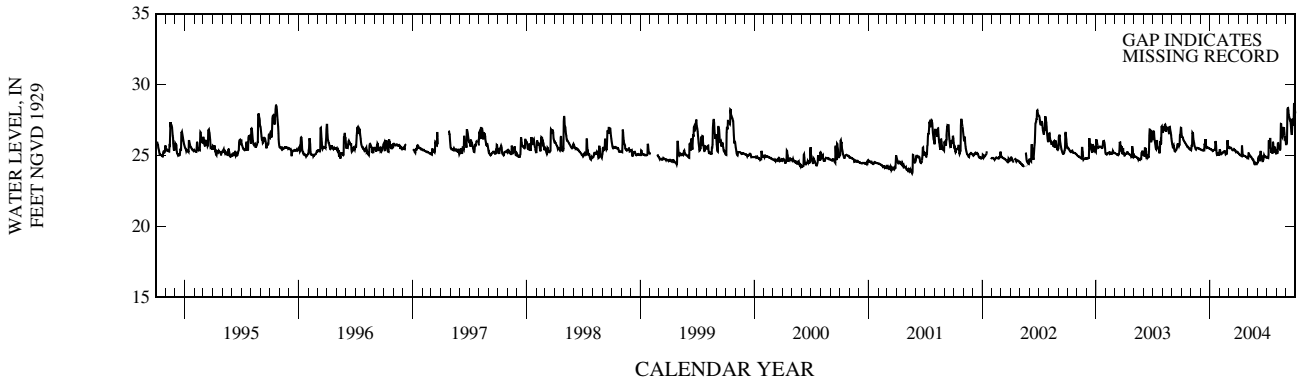
REMARKS.--Records of water levels prior to October 1950 are available in files of the U.S. Geological Survey. The figures of water levels as elevation in feet NGVD, prior to October 1990 are considered to be in error. See DATUM.

PERIOD OF RECORD.--January 1950 to April 1979, May 1979 to December 1993 (monthly), January 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 30.27 ft NGVD, present datum, Oct. 16, 1956; lowest, 22.70 ft NGVD, present datum, May 22, 1986.

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	26.30	26.63	25.40	25.43	25.11	25.53	25.08	25.09	24.94	24.83	25.85	28.25
10	26.01	25.96	25.40	25.34	25.19	25.49	24.97	24.93	25.21	25.52	25.57	27.80
15	25.82	25.50	25.79	25.40	25.31	25.38	25.04	24.76	24.77	25.19	27.22	27.31
20	25.64	25.55	25.58	25.74	25.08	25.38	24.98	24.58	24.70	25.97	26.29	27.09
25	25.50	25.50	25.55	25.08	25.94	25.24	24.92	24.50	24.94	25.18	26.92	27.44
EOM	25.41	25.44	25.48	25.16	25.61	25.21	24.88	24.44	24.91	25.09	25.81	27.98
MAX	26.56	26.63	26.16	26.02	26.09	25.60	25.70	25.16	25.33	26.18	27.22	28.66



ST. LUCIE COUNTY—Continued

WELL NUMBER.--273109080270301. Local Number STL 264. USGS Observation Well near Fort Pierce, FL.

LOCATION.--Lat 27°31'09", long 80°27'03", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.17, T.34 S., R.39 E., Hydrologic Unit 03090202, on west side of ditch and culvert 0.4 mi inside east gate to orange grove. Orange grove is on Indrio Road approximately 0.5 mi west of U.S. Interstate 95, approximately 6 mi west of U.S. Highway 1.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 90 ft, cased to 60 ft. (Corrected).

INSTRUMENTATION.--Electronic data logger.

DATUM.--Measuring point: Top of base, 24.04 ft above National Geodetic Vertical Datum of 1929. From January 1993 to June 8, 2001, top of base was 24.00 ft above NGVD. Prior to January 1993, measuring point was top of casing, 23.90 ft above NGVD. See REMARKS.

LAND-SURFACE DATUM.--Land surface is approximately 22.8 ft above NGVD. (Corrected).

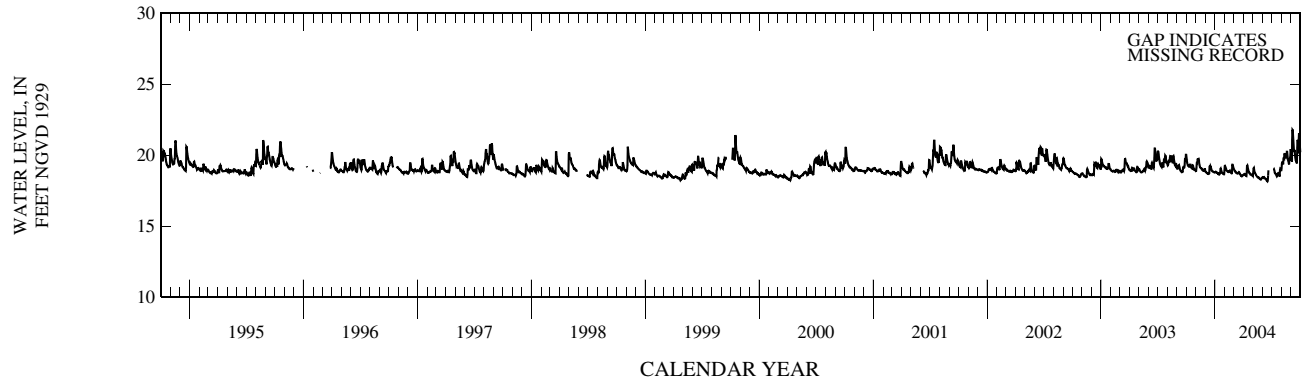
REMARKS.--Revised measuring point because of station reconstruction, and survey of June 8, 2001.

PERIOD OF RECORD.--May 1988 to November 1992 (semiannual), January 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 21.79 ft NGVD, Sept. 5, 2004; lowest, 18.15 ft NGVD, June 17, 2004.

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	19.35	19.56	18.77	18.78	19.03	18.86	18.62	18.96	18.44	---	19.48	21.79
10	19.20	19.62	18.69	18.73	18.85	18.75	18.53	18.67	18.33	18.80	20.09	20.23
15	19.19	19.12	19.21	18.67	18.85	18.73	19.06	18.48	18.18	18.60	20.13	19.67
20	19.30	19.02	19.02	19.00	18.78	18.71	18.75	18.42	18.94	18.73	20.01	20.55
25	19.01	18.90	18.86	18.74	19.33	18.54	18.65	18.30	---	18.58	19.36	21.05
EOM	18.88	18.92	18.78	18.89	19.09	18.61	18.59	18.42	---	18.88	20.26	20.21
MAX	19.85	19.76	19.23	19.08	19.34	19.04	19.28	19.11	---	---	20.43	21.79



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WATER RESOURCES DATA FOR FLORIDA, 2004

Volume 2B: South Florida Ground Water

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Conversion Factors

Multiply	By	To obtain
	Length	
inch (in.)	2.54×10^{1}	millimeter (mm)
	2.54×10^{-2}	meter (m)
foot (ft)	3.048×10^{-1}	meter (m)
mile (mi)	1.609×10^{0}	kilometer (km)
	Area	
acre	4.047×10^{3}	square meter (m^2)
	4.047×10^{-1}	square hectometer (hm^2)
	4.047×10^{-3}	square kilometer (km^2)
square mile (mi^2)	2.590×10^{0}	square kilometer (km^2)
	Volume	
gallon (gal)	3.785×10^{0}	liter (L)
	3.785×10^{-3}	cubic meter (m^3)
	3.785×10^{0}	cubic decimeter (dm^3)
million gallons (Mgal)	3.785×10^{3}	cubic meter (m^3)
	3.785×10^{-3}	cubic hectometer (hm^3)
cubic foot (ft^3)	2.832×10^{-2}	cubic meter (m^3)
	2.832×10^{1}	cubic decimeter (dm^3)
cubic-foot-per-second day [(ft^3/s) d]	2.447×10^{3}	cubic meter (m^3)
	2.447×10^{-3}	cubic hectometer (hm^3)
acre-foot (acre-ft)	1.233×10^{3}	cubic meter (m^3)
	1.233×10^{-3}	cubic hectometer (hm^3)
	1.233×10^{-6}	cubic kilometer (km^3)
	Flow	
cubic foot per second (ft^3/s)	2.832×10^{1}	liter per second (L/s)
	2.832×10^{-2}	cubic meter per second (m^3/s)
	2.832×10^{1}	cubic decimeter per second (dm^3/s)
gallon per minute (gal/min)	6.309×10^{-2}	liter per second (L/s)
	6.309×10^{-5}	cubic meter per second (m^3/s)
	6.309×10^{-2}	cubic decimeter per second (dm^3/s)
million gallons per day (Mgal/d)	4.381×10^{-2}	cubic meter per second (m^3/s)
	4.381×10^{1}	cubic decimeter per second (dm^3/s)
	Mass	
ton (short)	9.072×10^{-1}	megagram (Mg) or metric ton

Temperature in degrees Celsius (°C) may be converted to degrees Fahrenheit (°F) as follows:

°F = (1.8 x °C) + 32

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