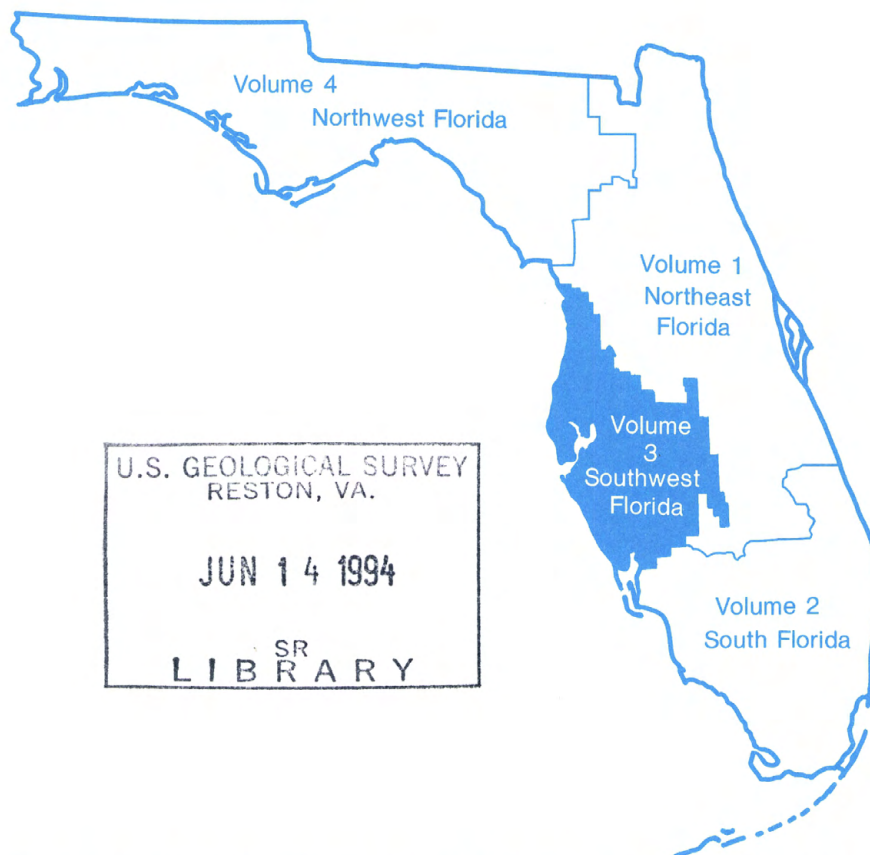


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# Water Resources Data Florida Water Year 1993

Volume 3B. Southwest Florida Ground Water



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT FL-93-3B  
Prepared in cooperation with the State of Florida  
and with other agencies

# CALENDAR FOR WATER YEAR 1993

1992

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

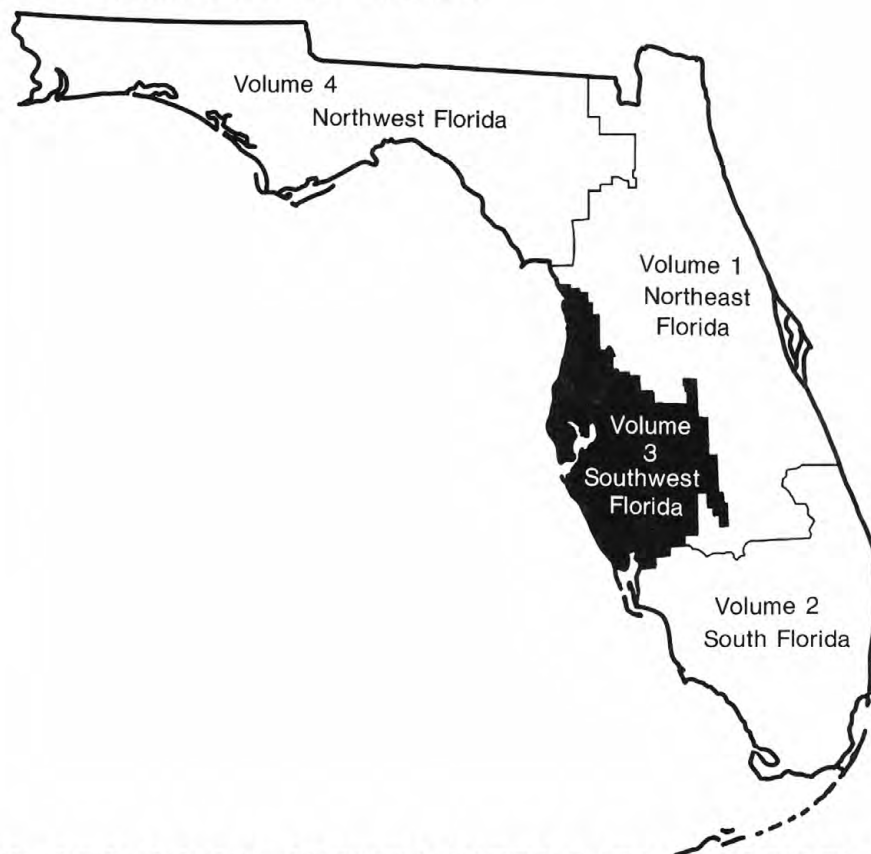
1993

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



# Water Resources Data Florida Water Year 1993

Volume 3B. Southwest Florida Ground Water  
by J.E. Coffin and W.L. Fletcher



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT FL-93-3B  
Prepared in cooperation with the State of Florida  
and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

BRUCE BABBITT, Secretary

U. S. GEOLOGICAL SURVEY

Gordon P. Eaton, Director

Prepared in cooperation with the  
State of Florida  
and with other agencies as listed  
under cooperation

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Tallahassee, Florida 32301

## PREFACE

This volume of the annual hydrologic data report of Florida is one of a series of annual reports that document hydrologic data gathered for 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.

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

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 J.M. Todd under the supervision of J.E. Coffin and W.L. Fletcher. The following individuals contributed significantly to the collection, processing, and tabulation of the data:

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This report was prepared in cooperation with the State of Florida and with other agencies under the general supervision of J. Vecchioli, District Chief, Florida.

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Volume 3B: Southwest Florida Ground Water

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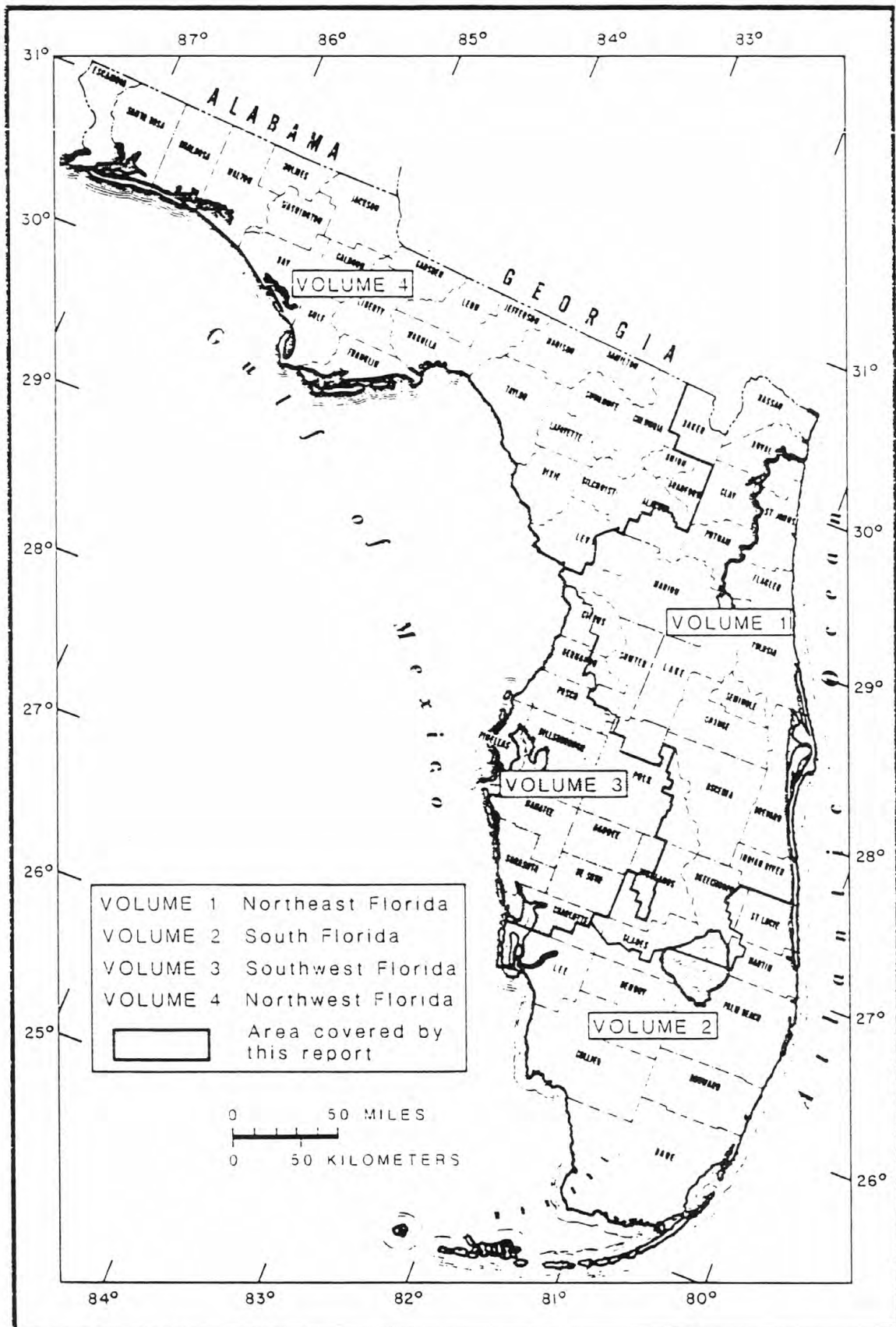


Figure 1. Geographic area covered by this report.

**WATER RESOURCES DATA FOR FLORIDA, 1993**  
**Volume 3B: Southwest Florida Ground Water**

1

INTRODUCTION

The Water Resources Division of the U.S. Geological Survey, in cooperation with State 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 Geological Survey, the data are published annually in this report series entitled "Water Resources Data - Florida."

This report series includes records of stage, discharge, and water quality of streams, stage, contents, water quality of lakes and reservoirs, and water levels and water quality of ground-water wells. Volume 3B contains records for continuous ground-water elevations at 141 wells; periodic ground-water elevations at 100 wells; miscellaneous ground-water elevations at 395 wells; and water-quality at 28 ground-water sites. Locations of these sites are shown on figure 1. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Florida.

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. Beginning with the 1975 water year, the report format was changed to present, in one volume, data on quantities of surface water, quality of surface and ground water, and ground-water levels.

Prior to introduction of this series and for several water years concurrent with it, water-resources data for Florida were published in U.S. Geological Survey 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 above mentioned Water-Supply Papers may be consulted in the libraries of the principal cities of the United States and may be purchased from Distribution Branch, Text Products Section, U.S. Geological Survey, Books and Open-File Reports, Federal Center, Building 41, Box 25425, Denver, CO 80225.

Publications similar to this report are published annually by the Geological Survey for all States. These official Survey 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-93-3B." For archiving and general distribution, the reports for 1971-74 water years also are identified as water-data reports. These water-data reports are for sale in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161. Beginning with the 1990 water year, all water-data reports are also available on Compact Disc - Read Only Memory (CD-ROM). All data reports published for the current water year for the entire Nation, including Puerto Rico and the Trust Territories, will be reproduced on a single CD-ROM disc.

Additional information, including current prices, for ordering specific reports may be obtained from the District Office at the address given on the back of the title page or by telephone (904) 942-9500. A limited number of CD-ROM discs will be available for sale by the Books and Open-File Reports Section, U.S. Geological Survey, Federal Center, Box 25425, Denver, Colorado 80225.

COOPERATION

The U.S. Geological Survey and agencies of the State of Florida have had cooperative agreements for the collection of water-resource records since 1930. Organizations that assisted in collecting the data in this report through cooperative agreement with the Survey are:

Southwest Florida Water Management District  
West Coast Regional Water Supply Authority  
County of Hillsborough  
County of Pinellas

County of Sarasota  
City of Sarasota  
City of Tampa

**WATER RESOURCES DATA FOR FLORIDA, 1993**  
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**SUMMARY OF HYDROLOGIC CONDITIONS**

During the 1993 water year, rainfall at 10 National Oceanic and Atmospheric Administration (NOAA) stations in west-central Florida (fig. 2) ranged from 43.08 inches at Brooksville in Hernando County (site 8) to 55.20 inches at Inverness in Citrus County (site 7). The 1993 water year total rainfall was higher at one long-term station and lower at seven long-term stations than the 1951-80 normal. Total rainfall at the eight stations ranged from 10.83 inches below normal at Brooksville (site 8) to 0.73 inches above normal at Inverness in Citrus County (site 7).

Ground-water levels throughout west-central Florida declined during the first 6 months of the 1993 water year as a result of deficient rainfall and increased ground-water withdrawals. Generally, water levels are lowest in May at the height of the spring dry season when ground-water withdrawals total about 2 billion gallons per day. Ground-water levels generally are highest in September at the end of the wet season when ground-water withdrawals for agricultural use are low.

Figures 3 through 8 show representative hydrographs for the Upper Floridan aquifer and the relation between the monthly mean water levels in the 1993 water year and monthly maximum, minimum, and median water levels for 10 years of record. Wells at sites 1 and 2 (fig. 2) are representative of wells in the northern part of the area (figs. 3 and 4). Wells at sites 3, 4, 5, and 6 (fig. 2) are representative of wells in the southern part of the area (figs. 5-8).

Ground-water levels in some coastal areas in southwest Florida are affected by tidal fluctuations in the Gulf of Mexico. Water levels fluctuate several feet in some wells in response to those tidal fluctuations.

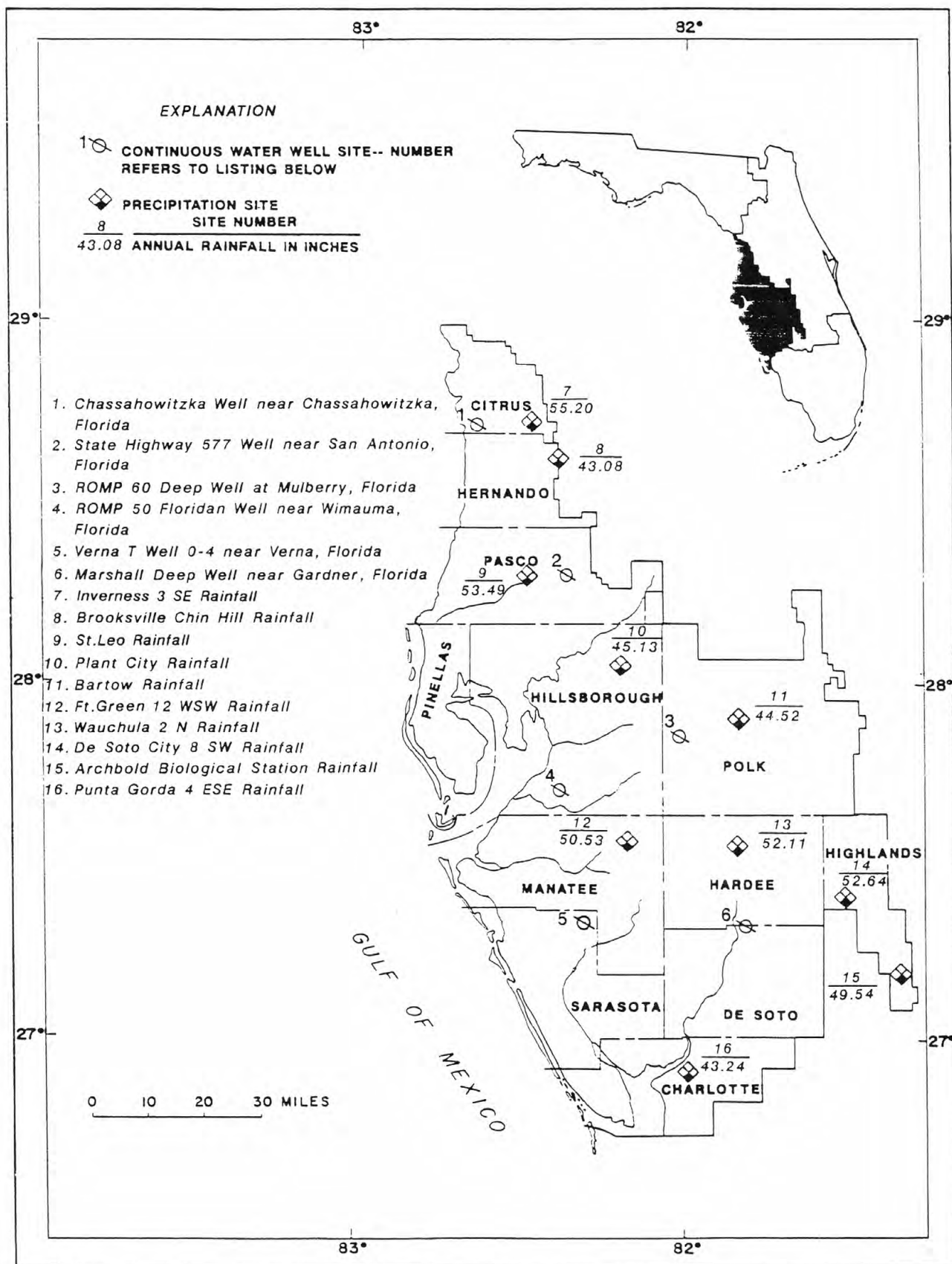


Figure 2.--Hydrologic conditions index map.

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CHASSAHOWITZKA WELL 1 NEAR CHASSAHOWITZKA, FLORIDA

STATION 284317082330601

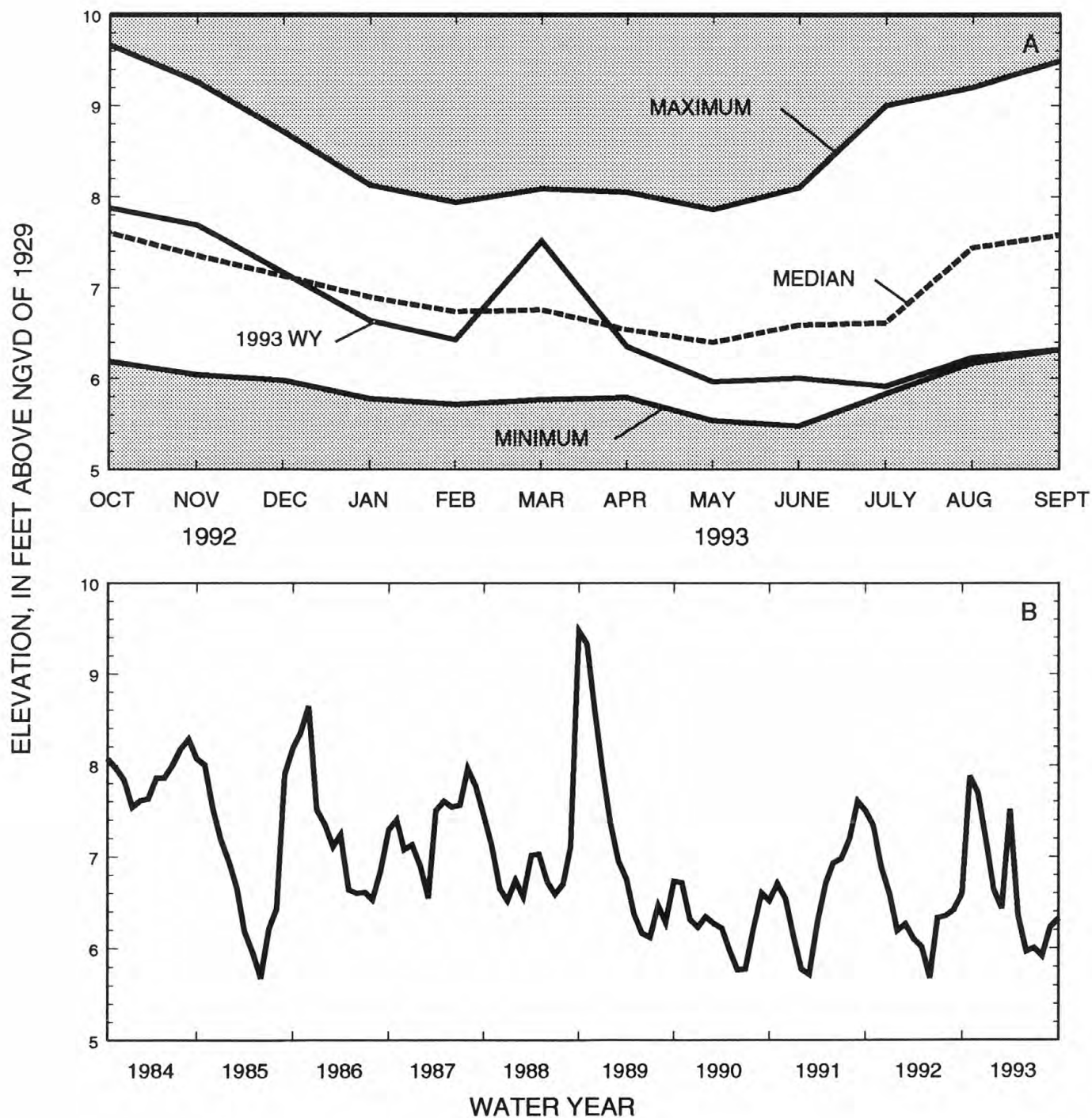


Figure 3.--Chassahowitzka well 1 near Chassahowitzka, Upper Floridan aquifer, (A) 1993 monthly mean elevation compared to the maximum, minimum, and median monthly mean elevation for the period of record, and (B) the monthly mean elevation for the period 1984-1993.

STATE HIGHWAY 577 WELL NEAR SAN ANTONIO, FLORIDA

STATION 281715082164401

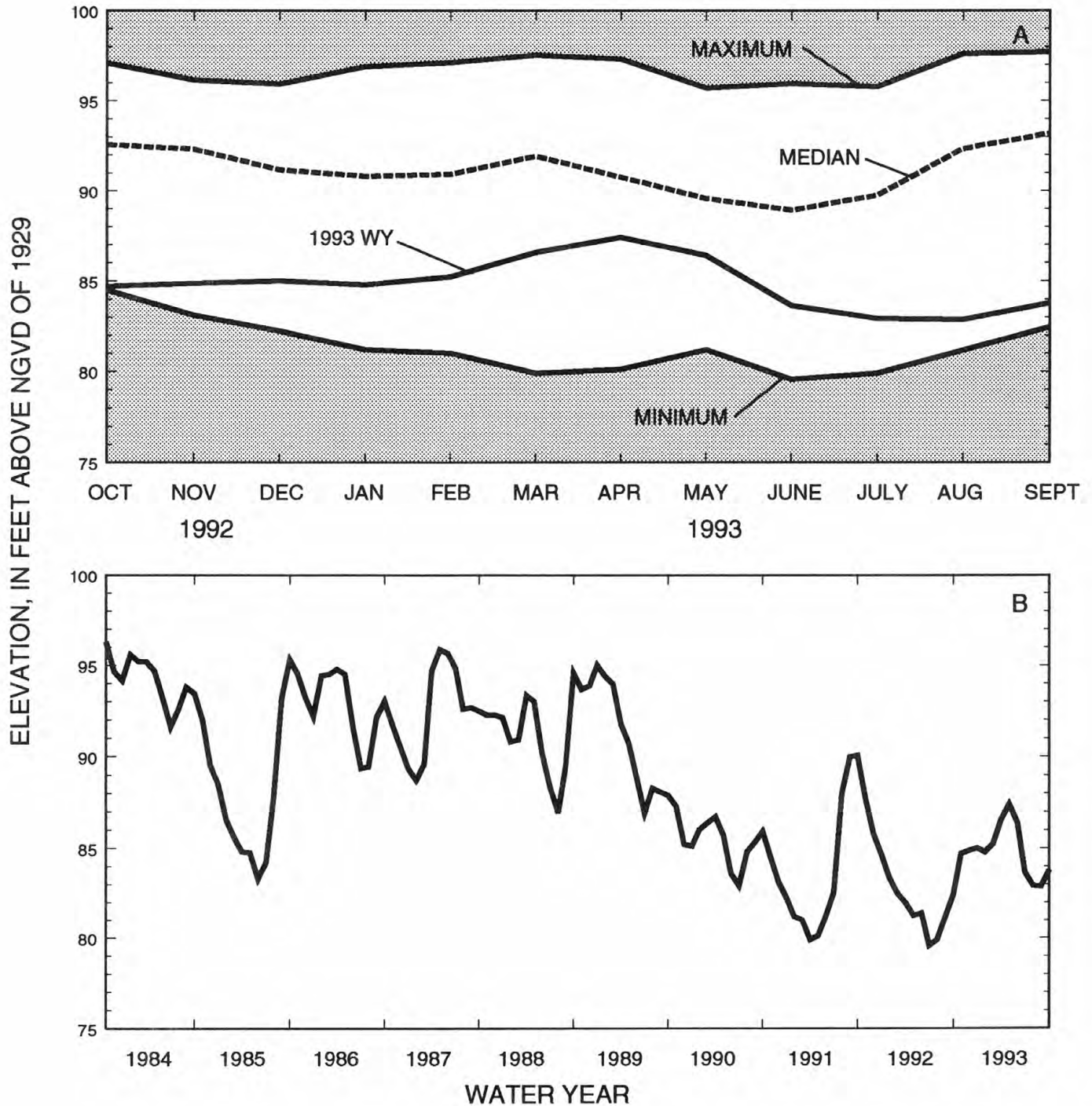


Figure 4.--State Highway 577 well near San Antonio, Upper Floridan aquifer, (A) 1993 monthly mean elevation compared to the maximum, minimum, and median monthly mean elevation for the period of record, and (B) the monthly mean elevation for the period 1984-1993.

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ROMP 60 DEEP WELL AT MULBERRY, FLORIDA

STATION 275326081585801

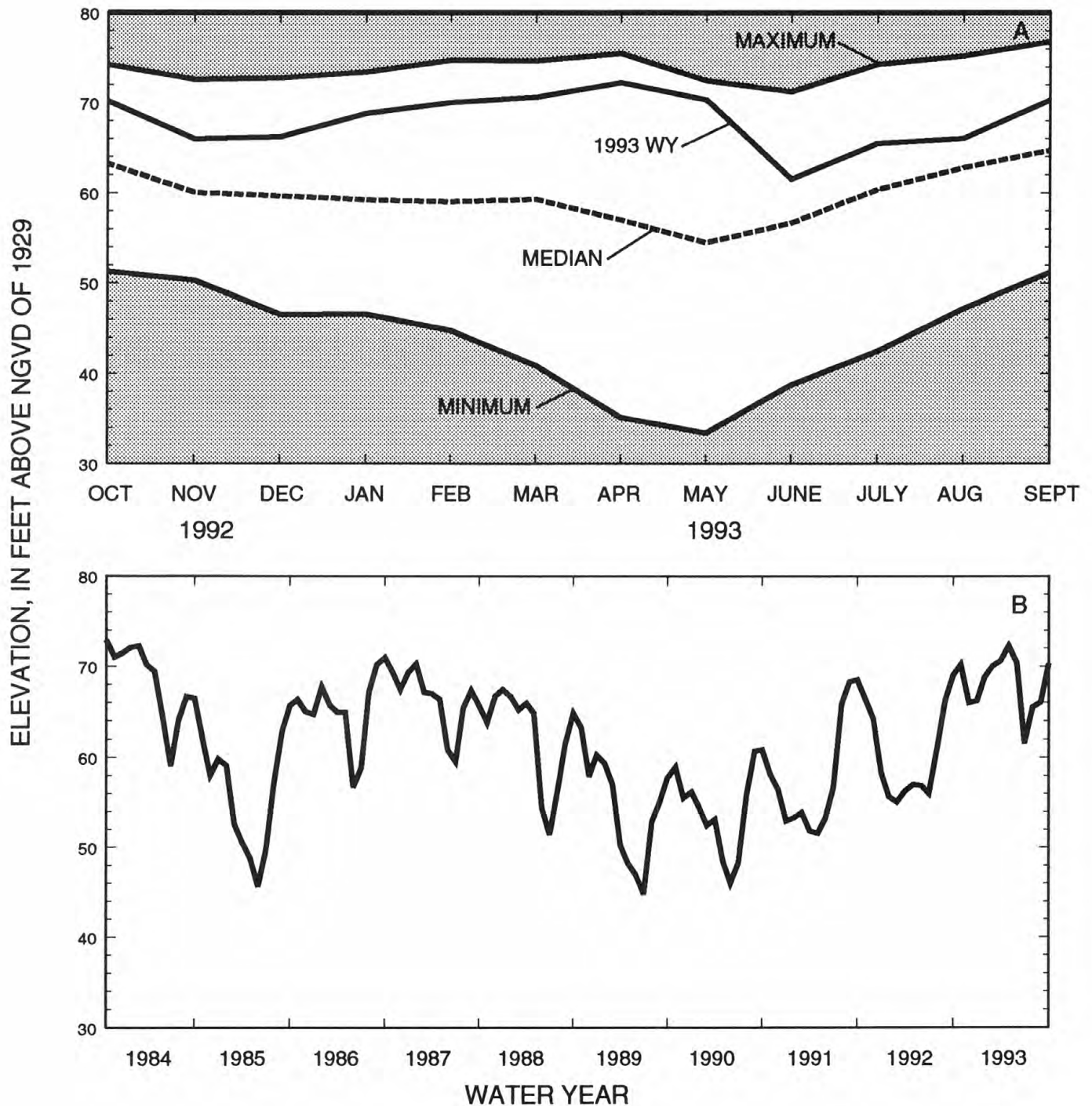


Figure 5.--ROMP 60 deep well at Mulberry, Upper Floridan aquifer, (A) 1993 monthly mean elevation compared to the maximum, minimum, and median monthly mean elevation for the period of record, and (B) the monthly mean elevation for the period 1984-1993.

ROMP 50 FLORIDAN WELL NEAR WIMAUMA, FLORIDA

STATION 274240082212701

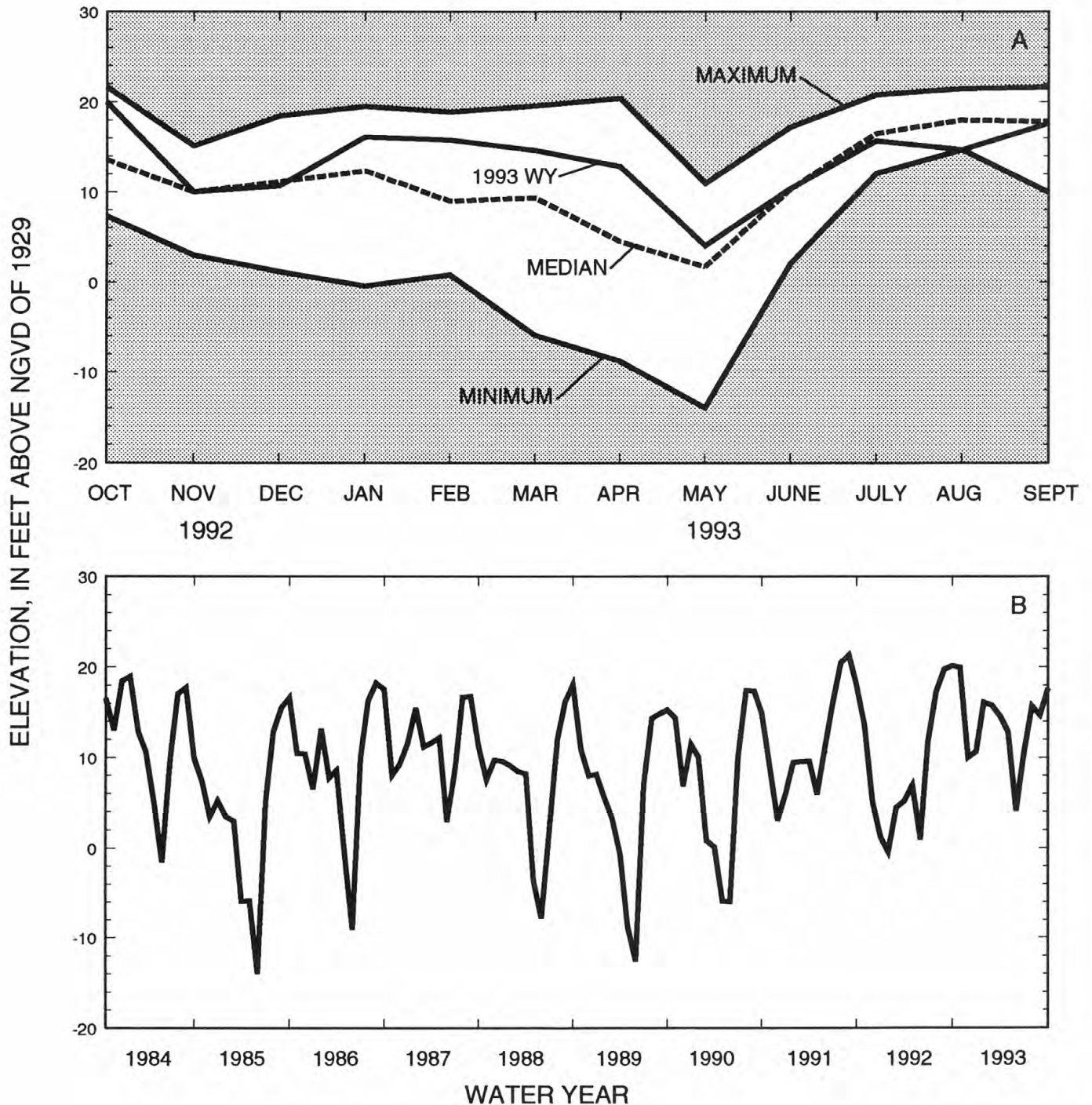


Figure 6.--ROMP 50 Floridan well near Wimauma, Upper Floridan aquifer, (A) 1993 monthly mean elevation compared to the maximum, minimum, and median monthly mean elevation for the period of record, and (B) the monthly mean elevation for the period 1984-1993.

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VERNA T WELL 0-4 NEAR VERNA, FLORIDA

STATION 272020082194801

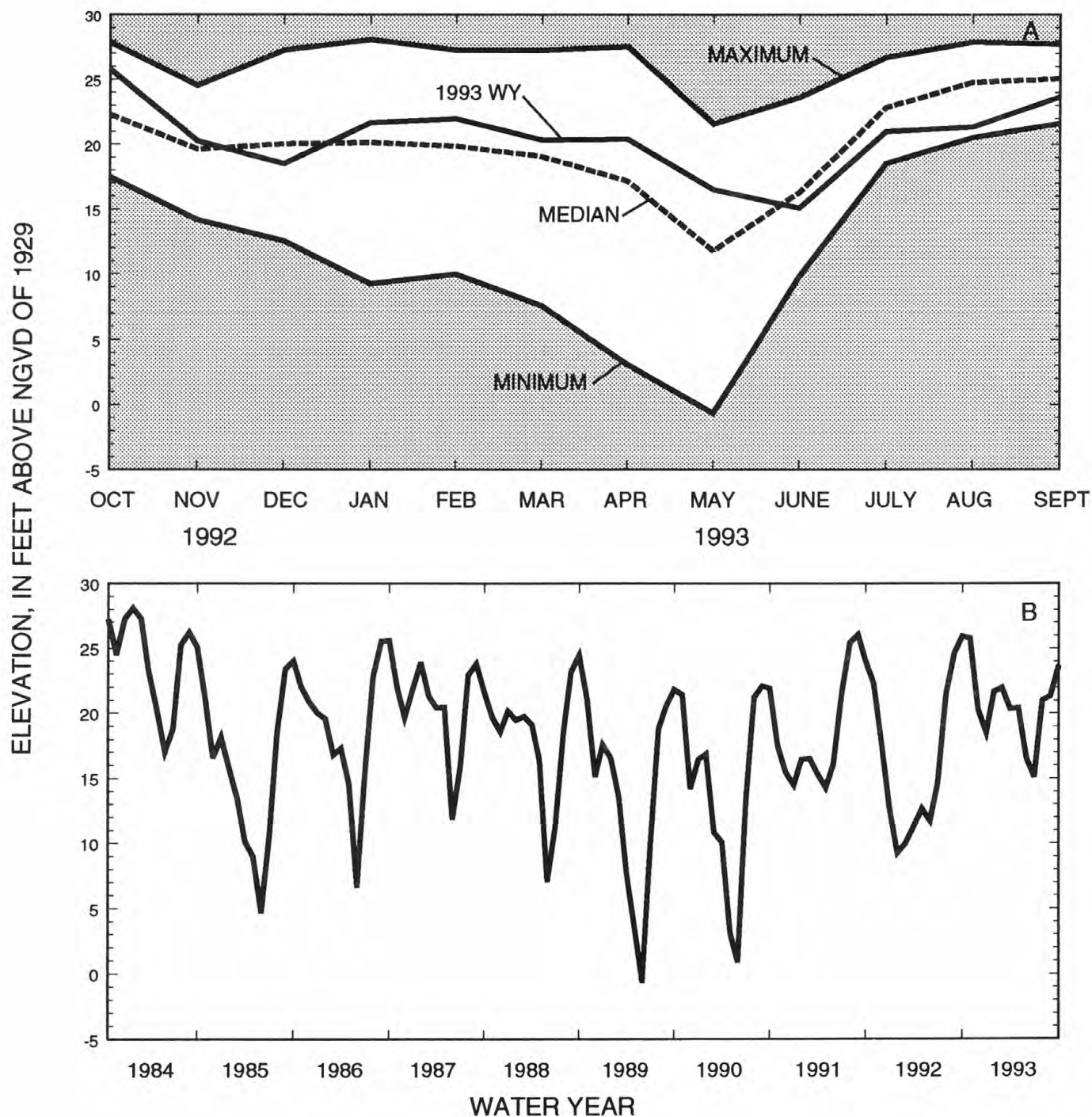


Figure 7.--Verna T well 0-4 near Verna, intermediate aquifer, (A) 1993 monthly mean elevation compared to the maximum, minimum, and median monthly mean elevation for the period of record, and (B) the monthly mean elevation for the period 1984-1993.

MARSHALL DEEP WELL NEAR GARDNER, FLORIDA

STATION 272012081482501

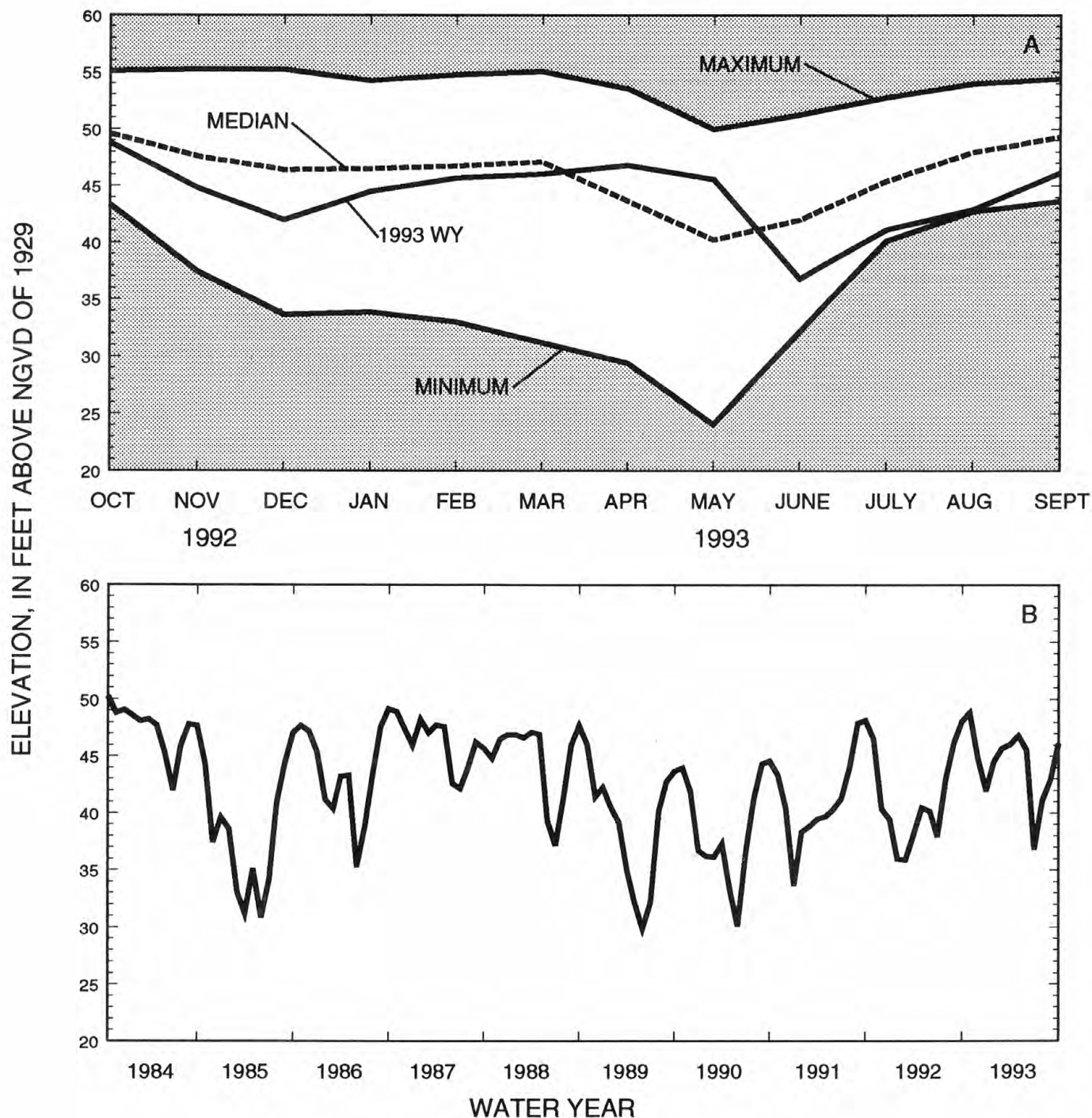


Figure 8.--Marshall deep well near Gardner, Upper Floridan aquifer, (A) 1993 monthly mean elevation compared to the maximum, minimum, and median monthly mean elevation for the period of record, and (B) the monthly mean elevation for the period 1984-1993.

**WATER RESOURCES DATA FOR FLORIDA, 1993**  
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**EXPLANATION OF THE RECORDS**

The ground-water records published in this report are for the 1993 water year that began October 1, 1992, and ended September 30, 1993. A calendar of the water year is provided on the inside of the front cover. The records contain ground water-quality and 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 in this report is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. The number usually is assigned when a station is first established and is retained for that station indefinitely. The system used by the U.S. Geological Survey to assign identification numbers is based on geographic location. The "latitude-longitude" system is used for wells.

Latitude-Longitude System

The identification numbers for wells are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells or other sites within a 1-second grid. This site-identification number, once assigned, is a pure number and has no locational significance. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description. (See figure 9.)

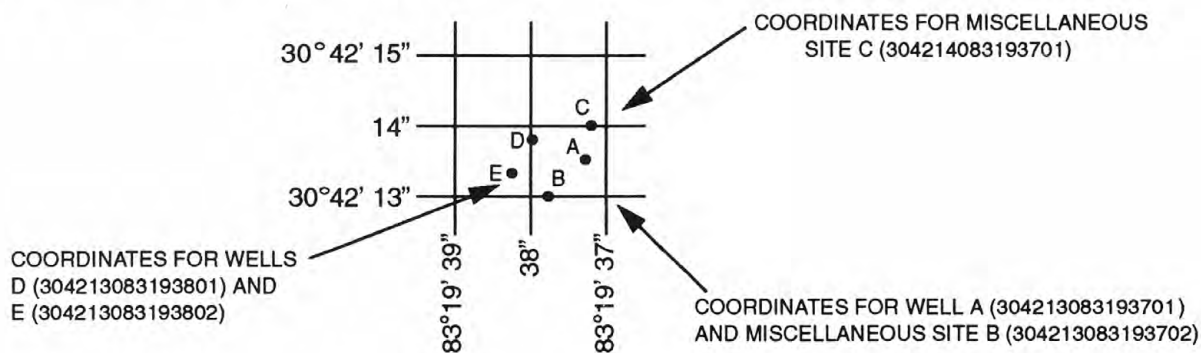


Figure 9.--System for numbering wells and miscellaneous sites.  
 (latitude and longitude)

A second well-numbering system used in Florida utilizes 7 1/2-minute quadrangles within the State. The quadrangles are numbered from west to east, and lettered from south to north, omitting the letters "I" and "O." The designation for each quadrangle is determined by the method "Read Right, Up." Wells are numbered serially within each quadrangle. This local well number is shown immediately after the primary well number.

Well records furnished by the State of Florida also include the well number that is based on an indexing system used by the State Water Control Board.

Records of Ground-Water Levels

Ground-water level data from a national network of observation wells are given in this report. The records include data from wells equipped with water-level recorders and data from wells where water levels are measured periodically.

Data Collection and Computation

Measurements of water levels are made in many types of wells under varying conditions, but the methods of measurement are standardized to the extent possible. The equipment and measuring techniques used at each observation well ensure that measurements at each well are of consistent accuracy and reliability.

Tables of water-level data are presented by counties arranged in alphabetical order. The prime identification number for a given well is the 15-digit number that appears in the upper left corner of the table. The secondary identification number is the local well number, an alphanumeric number, derived from the township-range location of the well.

Water-level records are obtained from direct measurements with a steel tape, pressure gage, or from the graph or punched tape of a water-stage recorder. The water-level measurements in this report are given in feet above National Geodetic Vertical Datum of 1929 or in some tables as feet below land-surface datum (lsd). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the elevation of the land-surface datum is given in the well description. 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 to water of several hundred feet, the error of 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 to a tenth of a foot or a larger unit.

#### Data Presentation

Each well record consists of two parts, the station description and the data table of water levels observed during the water year. The description of the well is presented first through use of descriptive headings preceding the tabular data. The following comments clarify information presented under the various headings.

**LOCATION.**--This paragraph follows the well-identification number and reports the latitude and longitude (given in degrees, minutes, and seconds); a landline location designation; the hydrologic-unit number; the distance and direction from a geographic point of reference; and the owner's name.

**AQUIFER.**--This entry designates by name (if a name exists) and geologic age the aquifer(s) open to the well.

**WELL CHARACTERISTICS.**--This entry describes the well in terms of depth, diameter, casing depth and/or screened interval, method of construction, use, and additional information such as casing breaks, collapsed screen, and other 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 periodic or continuous record.

**DATUM.**--This entry describes both the measuring point and the land-surface elevation at the well. The measuring point is described physically (such as top of collar, notch in top of casing, plug in pump base and so on), and in relation to land surface (such as 1.3 ft above land-surface datum). The elevation of the land-surface datum is described in feet above (or below) National Geodetic Vertical Datum of 1929 (NGVD of 1929); 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. It should identify wells that also are water-quality observation wells, and may be used to acknowledge the assistance of local (non-Survey) observers.

**PERIOD OF RECORD.**--This entry indicates the period for which there are published records for the well. It reports the month and year of the start of publication of water-level records by the U.S. Geological Survey and the words "to current year" if the records are to be continued into the following year. Periods for which water-level records are available, but are not published by the Geological Survey, may be noted.

**EXTREMES FOR PERIOD OF RECORD.**--This entry contains the highest and lowest water levels of the period of published record, with reference to National Geodetic Vertical Datum of 1929 and the dates of their occurrence.

A table of water levels follows the station description for each well. Water levels are reported in feet above National Geodetic Datum of 1929 and all taped measurements of water level are listed. For wells equipped with recorders, only abbreviated tables are published; generally, maximums are listed for every fifth day and at the end of the month (EOM). The highest water level of the calendar and water year for complete record is shown on a line below the abbreviated table. Because all values are not published for wells with recorders, the extremes may be values that are not listed in the table. Missing records are indicated by dashes in place of the water level.

#### Records of Ground-Water Quality

Records of ground-water quality in this report differ from other types of records in that, for most sampling sites, they consist of only one set of measurements for the water year. The quality of ground water ordinarily changes slowly; therefore, for most general purposes, one annual sampling, or only a few samples taken at infrequent intervals 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 trends in nitrate concentration. 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 records of ground-water quality in this report were obtained mostly as a part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some counties but none are presented for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality Statewide. 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 Techniques of Water-Resources Investigations" manuals listed at the end of the introductory text. 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. 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.

## Data Presentation

The records of ground-water quality are published in a section titled QUALITY OF GROUND WATER immediately following the ground-water-level records for each county. Data for quality of ground water are listed alphabetically by County, and are identified by well number. The prime identification number for wells sampled is the 15-digit number derived from the latitude-longitude locations. No descriptive statements are given for ground-water-quality records; however, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of the ground water. The REMARK codes listed for surface-water-quality records are also applicable to ground-water-quality records.

## Remark Codes

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

<u>PRINTED OUTPUT</u>	<u>REMARK</u>
E	Estimated value
>	Actual value is known to be greater than the value shown
<	Actual value is known to be less than the value shown
K	Results based on colony count outside the acceptance range (non-ideal colony count)
L	Biological organism count less than 0.5 percent (organism may be observed rather than counted)
D	Biological organism count equal to or greater than 15 percent (dominant)
&	Biological organism estimated as dominant

Rounding Clarification

Values for some constituents analyzed by routine methods are tabulated with extraneous trailing zeros that are not significant digits. Extraneous zeros result because data obtained from low-level methods that have better (lower) detection limits are stored under the same parameter code as data obtained by routine analytical methods.

## ACCESS TO WATSTORE DATA

The U.S. Geological Survey is the principal Federal water-data agency and, as such, collects and disseminates about 70 percent of the water data currently being used by numerous State, local, private, and other Federal agencies to develop and manage our water resources. As part of the Geological Survey's program of releasing water data to the public, a large-scale computerized system has been developed for the storage and retrieval of water data collected through its activities. The National Water Data Storage and Retrieval System (WATSTORE) was established in 1972 to provide an effective and efficient means for the processing and maintenance of water data collected through the activities of the U.S. Geological Survey and to facilitate release of the data to the public. A variety of useful products, ranging from data tables to complex statistical analyses such as Log Pearson Type III, can be produced using WATSTORE. The system resides on the central computer facilities of the U.S. Geological Survey at its National Center in Reston, Virginia, and consists of related files and data bases.

- \* Station Header File - Contains descriptive information on more than 440,000 sites throughout the United States and its territories where the U.S. Geological Survey collects or has collected data.
- \* Daily Values File - Contains more than 220 million daily values of stream flows, stages, reservoir contents, water temperatures, specific conductances, sediment concentrations, sediment discharges, and ground-water levels.
- \* Peak Flow File - Contains approximately 500,000 maximum (peak) streamflow and gage-height values at surface-water sites.
- \* Water Quality File - Contains approximately 2 million analyses of water samples that describe the chemical, physical, biological, and radio-chemical characteristics of both surface and ground water.
- \* Ground-Water Site Inventory Data Base - Contains inventory data for more than 900,000 wells, springs, and other sources of ground water. The data includes site location, geohydrologic characteristics, well-construction history, and one-time field measurements such as water temperature.

In 1976, the U.S. Geological Survey opened WATSTORE to the public for direct access. The signing of a Memorandum of Agreement

with the Survey is required to obtain direct access to WATSTORE. The system can be accessed either synchronously or asynchronously. The requestor will be expected to pay all computer costs he/she incurs. Direct access may be obtained by contacting:

U.S. Geological Survey  
National Water Data Exchange  
421 USGS National Center  
Reston, Virginia 22092

In addition to providing direct access to WATSTORE, data can be provided in various machine-readable formats on magnetic tape or 5-1/4 inch floppy disc; and, as noted in the introduction, on CD-ROM discs. Beginning with the 1990 water year, all water-data reports are also available on Compact Disc - Read Only Memory (CD-ROM). All data reports published for the current water year for the entire Nation, including Puerto Rico and the Trust Territories, will be reproduced on a single CD-ROM disc. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each of the Water Resources Division's District offices. (see address on the back of the title page.) A limited number of CD-ROM discs will be available for sale by the Books and Open-File Reports Section, U.S. Geological Survey, Federal Center, Box 25425, Denver, Colorado 80225.

#### DEFINITION OF TERMS

Terms related to water-quality, and other hydrologic data, as used in this report, are defined below. See also table for converting English units to International System (SI) Units on the inside of the back cover.

Adenosine triphosphate (ATP) is an organic, phosphate-rich, compound important in the transfer of energy in organisms. Its central role in living cells makes it an excellent indicator of the presence of living material in water. A measure of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter of the original water sample.

Algae are mostly aquatic single-celled, colonial, or multi-celled plants, containing chlorophyll and lacking roots, stems, and leaves.

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, while others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area or volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter ( $\text{g/m}^3$ ), and periphyton and benthic organisms in grams per square mile ( $\text{g/m}^2$ ).

Dry mass refers to the mass of residue present after drying in an oven at 105°C for zooplankton and periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and ash mass and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters (L).

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common green pigments in plants.

Color unit is produced by one milligram per liter of platinum in the form of the chloro-platinate ion. Color is expressed in units of the platinum-cobalt scale.

Dissolved refers to that material in a representative water sample which passes through a 0.45  $\mu\text{m}$  membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Dissolved-solids concentration of water is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.492 to reflect the change.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations and is expressed as the equivalent concentration of calcium carbonate (CaCO<sub>3</sub>).

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an eight-digit number.

Land-surface datum (lsd) is a datum plane that is approximately at land surface at each ground-water observation well.

Measuring point (MP) is an arbitrary permanent reference point from which the distance to the water surface in a well is measured to obtain the water level.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

Methylene blue active substances (MBAS) are apparent detergents. The determination depends on the formation of a blue color when methylene blue dye reacts with synthetic anionic detergent compounds.

Micrograms per gram (ug/g) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the element per unit mass (gram) of material analyzed.

Micrograms per liter (UG/L, ug/L) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L and is based on the mass of dry sediment per liter of water-sediment mixture.

National Geodetic Vertical Datum of 1929 (NGVD of 1929) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

Organism is any living entity.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meter (m<sup>2</sup>), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliter (mL) or liter (L). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Parameter Code is a 5-digit number used in the U.S. Geological Survey computerized data system, WATSTORE, to uniquely identify a specific constituent. The codes used in WATSTORE are the same as those used in the U.S. Environmental Protection Agency data system, STORET. The Environmental Protection Agency assigns and approves all requests for new codes.

Percent composition is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, mass, or volume.

Pesticides are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

Picocurie (PC, pCi) is one trillionth ( $1 \times 10^{-12}$ ) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields  $3.7 \times 10^{10}$  radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Recoverable from bottom material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Sodium-adsorption-ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance that is dissolved in water.

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Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in microsiemens per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Substrate is the physical surface upon which an organism lives.

Natural substrate refers to any naturally occurring emersed or submersed solid surface, such as a rock or tree, upon which an organism lives.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchial scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, Hexagenia limbata, is the following:

Kingdom .....	Animal
Phylum .....	Arthropoda
Class .....	Insecta
Order .....	Ephemeroptera
Family .....	Ephemeridae
<u>Genus</u> .....	Hexagenia
<u>Species</u> .....	Hexagenia limbata

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table headings and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

Water year in Geological Survey reports dealing with surface-water supply is the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1993 is called the "1993 water year."

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual hydrologic-data reports (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976).

WSP is used as an abbreviaton for "Water-Supply Paper" in reference to previously published reports.



## PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) pertains to surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S. Geological Survey, Books and Open-File Reports Section, Federal Center, Box 25425, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be sent by check or money order payable to the U.S. Geological Survey. Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

- 1-D1. *Water temperature--influential factors, field measurement, and data presentation*, by H. H. Stevens, Jr., J. F. Ficken, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.
- 1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.
- 2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.
- 2-D2. *Application of seismic-refraction techniques to hydrologic studies*, by F. P. Haeni: USGS--TWRI Book 2, Chapter D2. 1988. 86 pages.
- 2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L.M. McCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.
- 2-E2. *Borehole geophysics applied to ground-water investigations*, by W. S. Keys: USGS--TWRI Book 2, Chapter E2. 1990. 150 pages.
- 2-F1. *Application of drilling, coring, and sampling techniques to test holes and wells*, by Eugene Shuter and W. E. Teasdale: USGS--TWRI Book 2, Chapter F1. 1989. 97 pages.
- 3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
- 3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
- 3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
- 3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.
- 3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.
- 3-A7. *Stage measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
- 3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.

- 3-A9. *Measurement of time of travel in streams by dye tracing*, by F. A. Kilpatrick and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1989. 27 pages.
- 3-A10. *Discharge ratings at gaging stations*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A10. 1984. 59 pages.
- 3-A11. *Measurement of discharge by moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.
- 3-A12. *Fluorometric procedures for dye tracing*, by J. F. Wilson, Jr., E. D. Cobb, and F. A. Kilpatrick: USGS--TWRI Book 3, Chapter A12. 1986. 41 pages.
- 3-A13. *Computation of continuous records of streamflow*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A13. 1983. 53 pages.
- 3-A14. *Use of flumes in measuring discharge*, by F. A. Kilpatrick and V. R. Schneider: USGS--TWRI Book 3, Chapter A14. 1983. 46 pages.
- 3-A15. *Computation of water-surface profiles in open channels*, by Jacob Davidian: USGS--TWRI Book 3, Chapter A15. 1984. 48 pages.
- 3-A16. *Measurement of discharge using tracers*, by F. A. Kilpatrick and E. D. Cobb: USGS--TWRI Book 3, Chapter A16. 1985. 52 pages.
- 3-A17. *Acoustic velocity meter systems*, by Antonius Laenen: USGS--TWRI Book 3, Chapter A17. 1985. 38 pages.
- 3-A18. *Determination of stream reaeration coefficients by use of tracers*, by F. A. Kilpatrick, R. E. Rathburn, Nobuhiro Yotsukura, G. W. Parker, and L. L. DeLong: USGS--TWRI Book 3, Chapter A18. 1989. 52 pages.
- 3-A19. *Levels of streamflow gaging stations*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A19. 1990. 27 pages.
- 3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.
- 3-B2. *Introduction to ground-water hydraulics, a programmed text for self-instruction*, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
- 3-B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J. E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.
- 3-B4. *Regression modeling of ground-water flow*, by R. L. Cooley and R. L. Naff: USGS--TWRI Book 3, Chapter B4. 1990. 232 pages.
- 3-B4. *Supplement 1. Regression modeling of ground-water flow - Modifications to the computer code for nonlinear regression solution of steady-state ground-water flow problems*, by R. L. Cooley: USGS--TWRI Book 3, Chapter B4. 1993. 8 pages.
- 3-B5. *Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems--An introduction*, by O. L. Franke, T. E. Reilly, and G. D. Bennett: USGS--TWRI Book 3, Chapter B5. 1987. 15 pages.
- 3-B6. *The principle of superposition and its application in ground-water hydraulics*, by T. E. Reilly, O. L. Franke, and G. D. Bennett: USGS--TWRI Book 3, Chapter B6. 1987. 28 pages.
- 3-B7. *Analytical solutions for one-, two-, and three-dimensional solute transport in ground-water systems with uniform flow*, by E. J. Wexler: USGS--TWRI Book 3, Chapter B7. 1992. 90 pages.
- 3-C1. *Fluvial sediment concepts*, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.
- 3-C2. *Field methods for measurement of fluvial sediment*, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.

- 3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.
- 4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.
- 4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.
- 4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.
- 4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.
- 4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.
- 4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.
- 5-A1. *Methods for determination of inorganic substances in water and fluvial sediments*, by M.J. Fishman and L. C. Friedman: USGS--TWRI Book 5, Chapter A1. 1989. 545 pages.
- 5-A2. *Determination of minor elements in water by emission spectroscopy*, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.
- 5-A3. *Methods for the determination of organic substances in water and fluvial sediments*, edited by R. L. Wershaw, M. J. Fishman, R. R. Grabbe, and L. E. Lowe: USGS--TWRI Book 5, Chapter A3. 1987. 80 pages.
- 5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, by L. J. Britton and P. E. Greeson, editors: USGS--TWRI Book 5, Chapter A4. 1989. 363 pages.
- 5-A5. *Methods for determination of radioactive substances in water and fluvial sediments*, by L.L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.
- 5-A6. *Quality assurance practices for the chemical and biological analyses of water and fluvial sediments*, by L. C. Friedman and D. E. Erdmann: USGS--TWRI Book 5, Chapter A6. 1982. 181 pages.
- 5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.
- 6-A1. *A modular three-dimensional finite-difference ground-water flow model*, by M. G. McDonald and A. W. Harbaugh: USGS--TWRI Book 6, Chapter A1. 1988. 586 pages.
- 6-A2. *Documentation of a computer program to simulate aquifer-system compaction using the modular finite-difference ground-water flow model*, by S. A. Leake and D. E. Prudic: USGS--TWRI Book 6, Chapter A2. 1991. 68 pages.
- 6-A3. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 1: Model Description and User's Manual*, by L. J. Torak: USGS--TWRI Book 6, Chapter A3. 1993. 136 pages.
- 6-A4. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 2: Derivation of finite-element equations and comparisons with analytical solutions*, by R. L. Cooley: USGS--TWRI Book 6, Chapter A4. 1992. 108 pages.
- 6-A5. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water problems, Part 3: Design philosophy and programming details*, by L. J. Torak: USGS--TWRI Book 6, Chapter A5, 1993. 243 pages.
- 7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.

- 7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.
- 7-C3. *A model for simulation of flow in singular and interconnected channels*, by R. W. Schaffranek, R. A. Baltzer, and D. E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.
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- 8-A2. *Installation and service manual for U.S. Geological Survey manometers*, by J. D. Craig: USGS--TWRI Book 8, Chapter A2. 1983. 57 pages.
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## WELL DESCRIPTIONS AND GROUND-WATER DATA

**WATER RESOURCES DATA FOR FLORIDA, 1993**  
**Volume 3B: Southwest Florida Ground Water**

KEY TO SITE LOCATIONS ON FIGURE 10

CHARLOTTE COUNTY

INDEX NUMBER	SITE NUMBER	PAGE NUMBER
1	265138082002201	26
2	265646081554501	26
2	265646081554502	27
3	265920082045601	27
4	270133082034601	28
4	270133082034602	28
5	270152082002804	29
5	270152082002806	29
5	270152082002807	30

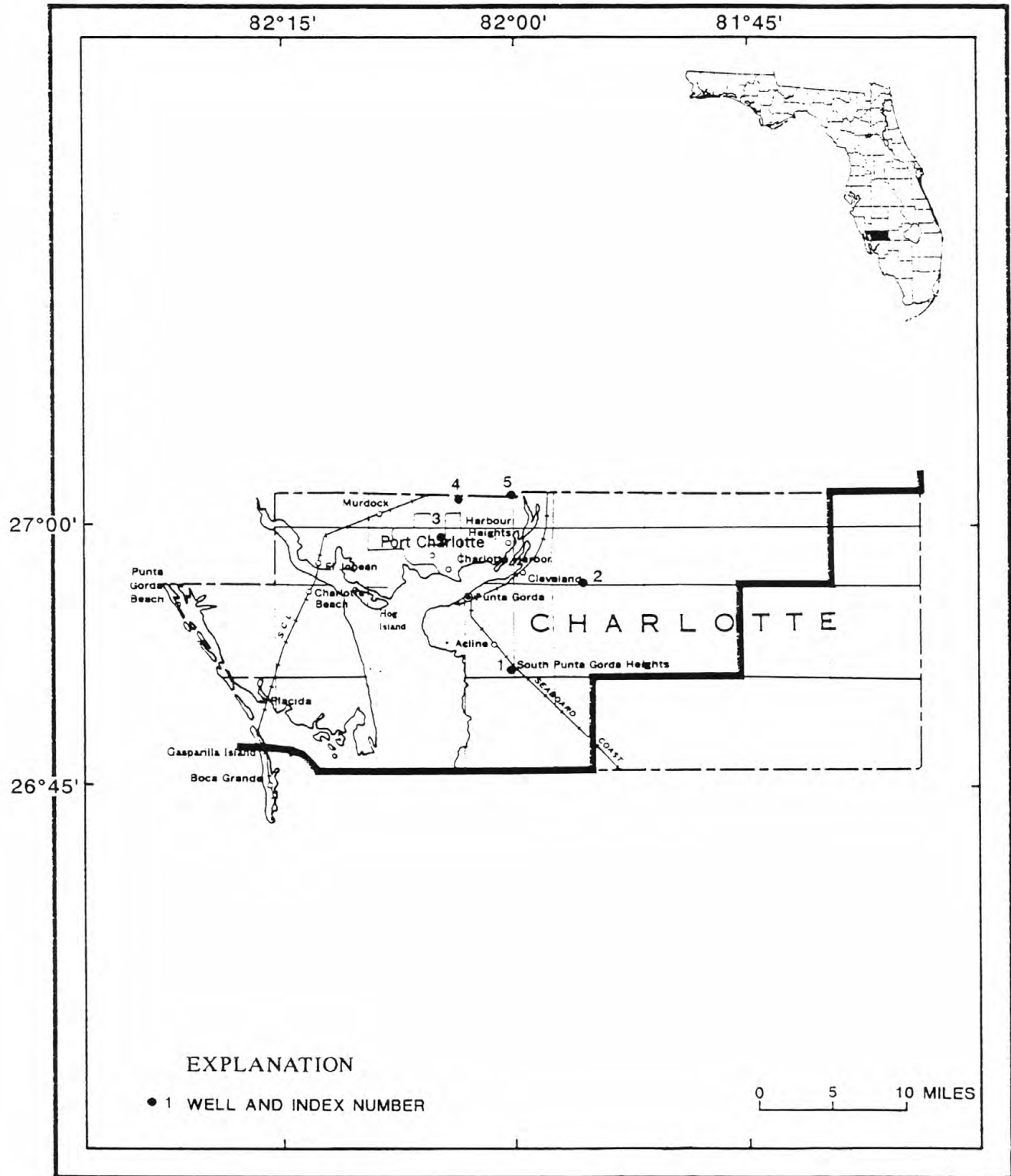


Figure 10.-- Location of wells in Charlotte County.

## CHARLOTTE COUNTY

**WELL NUMBER.--265138082002201. Punta Gorda Heights Well near Punta Gorda, FL.**

LOCATION.--Lat 26°51'38", long 82°00'22", in SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.34, T.41 S., R.23 E., Hydrologic Unit 03100103, 1.5 mi west of U. S. Highway 41, and 4.0 mi southeast of Punta Gorda. Owner: U. S. Geological Survey.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 125 ft, cased to 84 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 21.41 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 1.63 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby wells.

PERIOD OF RECORD.--April 1967 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 14.28 ft NGVD, Oct. 31, 1967; lowest, 10.89 ft below NGVD, Dec. 7, 1990.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.37	.64	6.62	2.98	6.55	7.32	.17	3.77	-2.42	8.70	5.92	7.57
10	9.45	4.10	.88	6.41	6.60	6.48	4.37	4.73	-1.34	9.22	3.02	7.32
15	9.72	-.14	5.00	7.50	7.45	-4.74	3.91	3.61	2.53	8.51	5.34	6.36
20	2.81	.52	5.51	8.96	6.51	5.15	5.56	.99	4.88	9.77	5.56	5.15
25	1.59	4.33	4.69	6.70	6.79	5.65	3.61	.82	5.34	8.64	1.07	6.04
EOM	4.13	6.71	3.42	7.85	6.87	1.40	4.33	-.35	7.82	1.85	5.84	6.01
MAX	10.58	6.76	6.62	8.96	7.73	7.32	6.08	4.73	7.82	9.77	6.33	7.57

CAL YR 1992 MAX 10.58

WTR YR 1993 MAX 10.58

**WELL NUMBER.--265646081554501. State Highway 74 Deep Well near Punta Gorda, FL.**

LOCATION.--Lat 26°56'46", long 81°55'45", in NW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.5, T.41 S., R.24 E., Hydrologic Unit 03100101, on south side of State Highway 74, 5.4 mi east of junction U. S. Highway 17 and State Highway 74, and 7.6 mi east of Punta Gorda. Owner: U.S. Geological Survey.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 280 ft, cased to 194 ft.

INSTRUMENTATION.--Periodic measurement with pressure gage or chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 19 ft, from topographic map. Measuring point: Top of 4 in. coupling, 2.80 ft above land-surface datum.

PERIOD OF RECORD.--November 1968 to current year (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.00 ft NGVD, Jan. 10, 1969; lowest measured, 19.76 ft NGVD, June 28, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			JUN		
07...	1630	23.62	18...	0935	21.71
DEC			AUG		
10...	1410	24.33	05...	1510	22.73
APR			SEP		
15...	1445	23.23	15...	1230	23.35
MAY					
18...	1550	22.28			

## CHARLOTTE COUNTY

**WELL NUMBER.--265646081554502. State Highway 74 Shallow Well near Punta Gorda, FL.**

LOCATION.--Lat 26°56'46", long 81°55'45", in NW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.5, T.41 S., R.24 E., Hydrologic Unit 03100101, on south side of State Highway 74, 5.4 mi east of junction U. S. Highway 17 and State Highway 74, and 7.6 mi east of Punta Gorda. Owner: U. S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 111 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 25 ft, cased to 21 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 19 ft, from topographic map. Measuring point: Top of male adapter, 2.3 ft above land-surface datum.

PERIOD OF RECORD.--July 1969 to current year (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey. The figures of water level as elevation, in feet NGVD, prior to Oct. 1, 1976, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of -4.00 ft.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.40 ft NGVD, Sept. 17, 1979; lowest measured, 11.10 ft NGVD, Apr. 27, 1971.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			JUN		
07...	1620	13.50	18...	0940	12.59
DEC			AUG		
10...	1405	12.13	05...	1515	14.22
APR			SEP		
15...	1450	12.25	30...	1125	14.05
MAY					
18...	1545	11.45			

**WELL NUMBER.--265920082045601. Port Charlotte Utility Deep Well at Port Charlotte, FL.**

LOCATION.--Lat 26°59'20", long 82°04'56", in SE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.14, T.40 S., R.22 E., Hydrologic Unit 03100101, between 709 and 727 Sistina Street at Port Charlotte Golf Course, and 1.0 mi north of U. S. Highway 41 in Port Charlotte. Owner: General Development Corporation.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 156 ft, cased to 128 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 14 ft, from topographic map. Measuring point: Top of concrete, at land-surface datum.

REMARKS.--Water level affected by pumping of nearby irrigation wells.

PERIOD OF RECORD.--January 1967 to current year (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.40 ft NGVD, July 9, 1968; lowest measured, 25.79 ft below NGVD, Nov. 7, 1972.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
DEC			AUG		
10...	1230	9.57	05...	1430	9.77
APR			SEP		
14...	1305	10.20	15...	1030	10.55
MAY					
18...	1150	8.52			

## CHARLOTTE COUNTY

**WELL NUMBER.--270133082034601. Port Charlotte Deep Well at Port Charlotte, FL.**

LOCATION.--Lat 27°01'33", long 82°03'46", in SW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.1, T.40 S., R.22 E., Hydrologic Unit 03100101, 200 ft north of intersection Hammond and Zenith Streets, and 4.5 mi northeast of junction U. S. Highway 41 and Kessler Street in Port Charlotte. Owner: U. S. Geological Survey.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 350 ft, cased to 312 ft.

INSTRUMENTATION.--Periodic measurement with pressure gage by USGS personnel.

DATUM.--Elevation of land-surface datum is 25 ft, from topographic map. Measuring point: Top of 10 in. coupling, 4.0 ft above land-surface datum.

PERIOD OF RECORD.--February 1966 to current year (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 51.20 ft NGVD, Jan. 27, 1967; lowest measured, 43.00 ft NGVD, Jan. 16, 1990, June 10, 1992.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
DEC			AUG		
10...	1255	46.00	05...	1410	46.70
APR			SEP		
14...	1330	46.60	15...	1025	47.00
MAY					
18...	1230	45.90			

**WELL NUMBER.--270133082034602. Port Charlotte Shallow Well at Port Charlotte, FL.**

LOCATION.--Lat 27°01'33", long 82°03'46", in SW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.1, T.40 S., R.22 E., Hydrologic Unit 03100101, 200 ft north of intersection Hammond and Zenith Streets, and 4.5 mi northeast of junction U. S. Highway 41 and Kessler Street in Port Charlotte. Owner: U. S. Geological Survey.

AQUIFER.--Tamiami formation of Miocene Age, Geologic Unit 122 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 89 ft, cased to 84 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 25 ft, from topographic map. Measuring point: Top of coupling, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--February 1966 to current year (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.53 ft NGVD, Nov. 6, 1967; lowest measured, 16.85 ft NGVD, May 20, 1981.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
DEC			AUG		
10...	1250	20.00	05...	1415	20.21
APR			SEP		
14...	1320	20.83	30...	1210	20.47
MAY					
18...	1210	18.54			

## CHARLOTTE COUNTY

**WELL NUMBER.--270152082002804. ROMP 10 Water Table Well near Port Charlotte, FL.**

LOCATION.--Lat 27°01'52", long 82°00'28", in NW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.3, T.40 S., R.23 E., Hydrologic Unit 03100101, 200 ft south of De Soto-Charlotte County line, 1.0 mi east of Peace River, 2.0 mi north of Harbour Heights, and 5.0 mi northeast of Port Charlotte. Owner: Southwest Florida Water Management District.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 30 ft, cased to 20 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 20 ft, from topographic map. Measuring point: Top of coupling, 2.20 ft above land-surface datum.

PERIOD OF RECORD.--December 1975 to current year (periodic). Prior to October 1979, published as Deep Creek Water Table Well near Port Charlotte.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.61 ft NGVD, July 24, 1992; lowest measured, 14.25 ft NGVD, May 10, 1976.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
DEC			JUL		
10...	1340	16.27	20...	1135	17.60
APR			AUG		
14...	1355	17.02	05...	1350	17.28
MAY			SEP		
18...	1350	16.18	30...	1150	17.11

**WELL NUMBER.--270152082002806. ROMP 10 Tampa Well near Port Charlotte, FL.**

LOCATION.--Lat 27°01'52", long 82°00'28", in NW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.3, T.40 S., R.23 E., Hydrologic Unit 03100101, 200 ft south of De Soto-Charlotte County line, 1.0 mi east of Peace River, 2.0 mi north of Harbour Heights, and 5.0 mi northeast of Port Charlotte. Owner: Southwest Florida Water Management District.

AQUIFER.--Tampa limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 to 4 in., depth 488 ft, cased to 303 ft.

INSTRUMENTATION.--Periodic measurement with pressure gage by USGS personnel.

DATUM.--Elevation of land-surface datum is 20 ft, from topographic map. Measuring point: Top of steel casing, 1.3 ft above land-surface datum.

REMARKS.--Record is equivalent to that for ROMP 10 Limestone Well (270152082002802), available December 1975 to October 1989. Prior to October 1979, published as Deep Creek Well Number 575 near Pt. Charlotte.

PERIOD OF RECORD.--November 1989 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 60.85 ft NGVD, Aug. 23, 1991; lowest measured, 56.40 ft NGVD, Jan. 16, 1990.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
DEC			JUL		
10...	1325	58.50	20...	1125	58.60
APR			AUG		
14...	1400	60.10	05...	1340	59.00
MAY			SEP		
18...	1340	58.20	15...	1420	59.80

## WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

## CHARLOTTE COUNTY

**WELL NUMBER.--270152082002807. ROMP 10 Hawthorn Well near Port Charlotte, FL.**

LOCATION.--Lat 27°01'52", long 82°00'28", in NW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.3, T.40 S., R.23 E., Hydrologic Unit 03100101, 200 ft south of De Soto-Charlotte County line, 1.0 mi east of Peace River, 2.0 mi north of Harbour Heights, and 5.0 mi northeast of Port Charlotte. Owner: Southwest Florida Water Management District.

AQUIFER.--Intermediate aquifer system of Miocene Age, Geologic Unit 121 IAQS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 210 ft, cased to 110 ft.

INSTRUMENTATION.--Periodic measurement with pressure gage by USGS personnel.

DATUM.--Elevation of land-surface datum is 20 ft, from topographic map. Measuring point: Top of casing, 1.3 ft above land-surface datum.

REMARKS.--Record is equivalent to that for ROMP 10 Hawthorn Well (270152082002803), available December 1975 to October 1989. Prior to October 1979, published as Deep Creek Well Number 270 near Pt. Charlotte.

PERIOD OF RECORD.--November 1989 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.10 ft NGVD, July 24, 1992; lowest measured, 25.10 ft NGVD, Dec. 18, 1989.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
DEC			JUL		
10...	1330	32.50	20...	1130	32.70
APR			AUG		
14...	1405	33.50	05...	1345	33.90
MAY			SEP		
18...	1345	32.50	15...	1430	33.80

MISCELLANEOUS WATER LEVEL MEASUREMENTS  
OCTOBER 1992 TO SEPTEMBER 1993

31

CHARLOTTE COUNTY

STATION NUMBER	STATION NAME	DATE	ELEV- ATION ABOVE NGVD (FEET)
265004081581901	42S23E12 HERRIN NVR 1	05-17-93	25.49
		09-13-93	26.55
265017082153701	42S20E12 65021501 241	05-18-93	17.10
		09-15-93	17.40
265124081453701	TUCKERS CORNER D. WELL NR PUNTA GORDA, FL	05-18-93	24.77
		09-15-93	31.91
265124082012401	OLD FAITHFUL D. WELL NR PUNTA GORDA, FLA	05-18-93	43.10
		09-15-93	45.00
265257081444101	BABCOCK 5 NR PUNTA GORDA, FL	05-18-93	31.10
		09-15-93	36.66
265504082000601	41S23E10 USGS C3 343	05-18-93	12.20
		09-15-93	13.79
265531082194803	ROMP TR3-3 SUWANNEE WELL NR ENGLEWOOD, FL	05-18-93	19.95
		09-14-93	18.55
265531082194804	ROMP TR3-3 LOWER HAWTHORN WELL	05-18-93	19.60
		09-14-93	12.80
265633082015201	BROWNS D WELL AT PUNTA GORDA	05-18-93	41.70
		09-15-93	42.50
265638082130701	ROMP TR3-1 SURFICIAL MONITOR NR EL JOBEAN, FL	12-10-92	2.42
265638082130702	ROMP TR3-1 TAMIAMI MONIT	12-10-92	2.93
265638082130703	ROMP TR3-1 UPPER HAWTHOR	12-10-92	15.21
		05-18-93	15.04
		09-15-93	15.19
265638082130704	ROMP TR3-1 LOWER HAWTHOR	12-10-92	29.48
265638082130705	ROMP TR3-1 LOWER HAWTHORN MON. NR EL JOBEAN, FL	12-10-92	30.39
		05-18-93	29.80
		09-15-93	30.85
265638082130706	ROMP TR3-1 SUWANNEE MONITOR NR EL JOBEAN, FL	12-10-92	32.11
		05-18-93	31.53
		09-15-93	32.63
265837081561101	ROMP 11 HTRN WELL NR PUN	05-18-93	23.00
		09-15-93	23.80

**WATER RESOURCES DATA FOR FLORIDA, 1993**  
**Volume 3B: Southwest Florida Ground Water**

KEY TO SITE LOCATIONS ON FIGURE 11

CITRUS COUNTY

INDEX NUMBER	SITE NUMBER	PAGE NUMBER
1	284317082330601	34
1	284317082330602	34
2	284339082270401	35
2	284339082270402	35
3	284803082351701	36
4	285020082365301	36
5	285102082361001	37
6	285112082354401	37
7	285254082323001	38
8	285421082361601	38
8	285421082361602	39
9	285737082400601	40
10	285737082413001	40

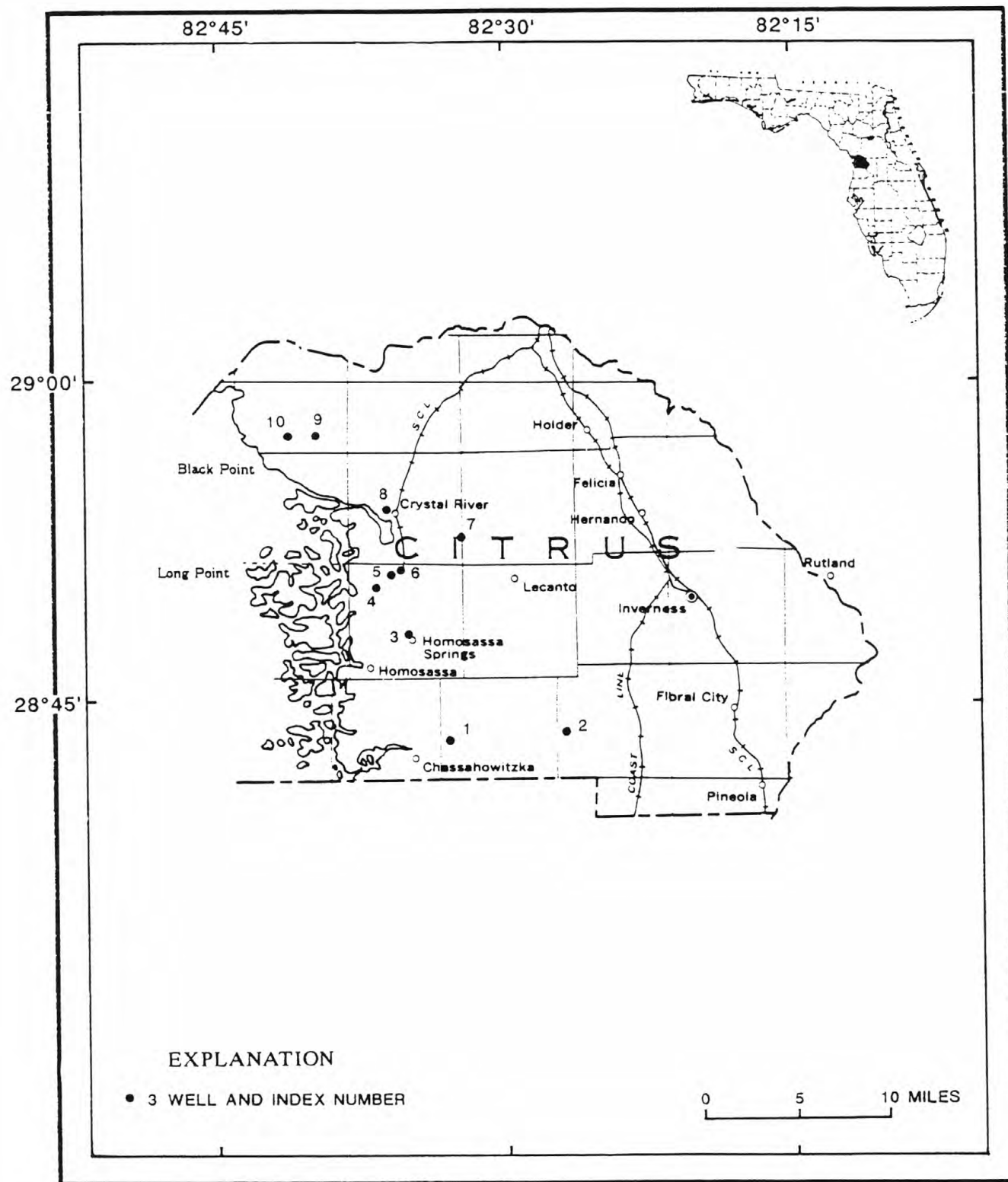


Figure 11.--Location of wells in Citrus County.

## CITRUS COUNTY

**WELL NUMBER.--284317082330601. Chassahowitzka Well 1 near Chassahowitzka, FL.**

LOCATION.--Lat 28°43'17", long 82°33'06", in NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.25, T.20 S., R.17 E., Hydrologic Unit 03100207, 0.1 mi southeast of intersection U. S. Highway 19 and U. S. Highway 98, and 1.2 mi east of Chassahowitzka. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 176 ft, cased to 166 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 9.82 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of flange, 2.65 ft above land-surface datum.

REMARKS.--Water level affected by tidal fluctuations. Some records were provided by Southwest Florida Water Management District and reviewed by Geological Survey.

PERIOD OF RECORD.--October 1965 to March 1971; January 1973 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 9.67 ft NGVD, Oct. 14, 1982; lowest, 5.24 ft NGVD, May 24, 1992.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.58	7.69	7.12	6.56	6.29	6.42	6.35	5.95	5.91	5.83	5.75	6.25
10	7.77	7.42	7.05	6.62	6.28	6.25	6.28	5.85	5.74	5.71	5.71	6.32
15	7.83	7.28	6.88	6.53	6.29	6.66	6.27	5.88	5.71	5.83	5.89	6.23
20	7.75	7.24	6.88	6.54	6.21	6.35	6.17	5.88	5.60	5.80	5.88	6.32
25	7.82	7.30	6.70	6.46	6.22	6.27	6.09	5.79	5.58	5.88	5.81	6.26
EOM	7.69	7.19	6.55	6.38	6.24	6.31	5.93	5.91	5.90	5.83	6.23	6.06
MAX	7.88	7.69	7.17	6.64	6.43	7.51	6.35	5.96	6.00	5.91	6.23	6.32

CAL YR 1992 MAX 7.88

WTR YR 1993 MAX 7.88

**WELL NUMBER.--284317082330602. Chassahowitzka Well 2 near Chassahowitzka, FL.**

LOCATION.--Lat 28°43'17", long 82°33'06", in NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.25, T.20., R.17 E., Hydrologic Unit 03100207, 0.1 mi southeast of intersection U. S. Highway 19 and U. S. Highway 98, and 1.2 mi east of Chassahowitzka. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 46.5 ft, cased to 40.5 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 9.36 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--September 1965 to current year (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.30 ft NGVD, Sept. 14, 1982; lowest measured, 5.30 ft NGVD, Jan. 9, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
22...	0838	7.77	21...	1500	6.21
DEC			JUN		
07...	1408	7.13	21...	1315	5.60
JAN			AUG		
25...	1123	6.58	06...	0810	5.74
MAR					
19...	0914	6.61			

## CITRUS COUNTY

**WELL NUMBER.--284339082270401. Lecanto Well 1 near Chassahowitzka, FL.**

LOCATION.--Lat 28°43'39", long 82°27'04", in SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.19, T.20 S., R.19 E., Hydrologic Unit 03100207, on east side of State Highway 491, 2.2 mi north of Citrus-Hernando County line, and 14 mi east of Chassahowitzka. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 168.5 ft, cased to 168 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 32.80 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--September 1965 to current year (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.82 ft NGVD, Sept. 8, 1965; lowest measured, 6.69 ft NGVD, June 10, 1992.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
21...	1403	9.94	17...	1035	7.66
DEC			JUN		
07...	1050	9.36	21...	1415	7.37
JAN			AUG		
26...	0824	8.51	06...	0845	7.39
MAR			SEP		
18...	1402	8.22	16...	0930	7.78
APR					
21...	1430	7.96			

**WELL NUMBER.--284339082270402. Lecanto Well 2 near Chassahowitzka, FL.**

LOCATION.--Lat 28°43'39", long 82°27'04", in SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.19, T.20 S., R.19 E., Hydrologic Unit 03100207, on east side of State Highway 491, 2.2 mi north of Citrus-Hernando County line, and 14 mi east of Chassahowitzka. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 41 ft, cased to 36 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 32.64 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--September 1965 to current year (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.92 ft NGVD, Sept. 6, 1974; lowest measured, 6.72 ft NGVD, June 10, 1992.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
21...	1405	10.00	21...	1428	8.01
DEC			JUN		
07...	1054	9.42	21...	1420	7.43
JAN			AUG		
26...	0830	8.56	06...	0850	8.47
MAR					
18...	1403	8.29			

## CITRUS COUNTY

**WELL NUMBER.--284803082351701. Norris Well at Homosassa Springs, FL.**

LOCATION.--Lat 28°48'03", long 82°35'17", in NW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.28, T.19 S., R.17 E., Hydrologic Unit 03100207, at Nature's Fish Bowl (Homosassa Springs), and 0.7 mi west of U. S. Highway 19 at town of Homosassa Springs. Owner: Florida State Department of Natural Resources.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, irrigation, artesian well, diameter 12 in., depth 50 ft, cased to 44 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 5.87 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.60 ft above land-surface datum.

PERIOD OF RECORD.--October 1963 to current year (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.37 ft NGVD, Sept. 10, 1964; lowest measured, 0.58 ft NGVD, Nov. 4, 1983.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
22...	0805	1.98	21...	1525	1.86
DEC			MAY		
07...	1337	1.67	17...	1210	1.62
JAN			AUG		
25...	1200	1.67	05...	1530	1.65
MAR			SEP		
19...	1205	1.54	17...	0915	2.07

**WELL NUMBER.--285020082365301. Ozello Well 3 near Crystal River, FL.**

LOCATION.--Lat 28°50'20", long 82°36'53", in NW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.8, T.19 S., R.17 E., Hydrologic Unit 03100207, 2.5 mi south of Crystal River, and 2.8 mi west of U. S. Highway 19. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 3 in., depth 41 ft, cased to 39 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 3.60 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.53 ft above land-surface datum.

PERIOD OF RECORD.--September 1965 to current year (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.55 ft NGVD, July 11, 1984; lowest measured, 0.43 ft NGVD, May 6, 1976.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
22...	0715	1.24	17...	1300	0.80
DEC			JUN		
07...	1303	1.51	21...	1800	1.27
JAN			AUG		
25...	1350	1.46	05...	1755	1.34
MAR			SEP		
19...	1131	1.39	17...	0840	1.95
APR					
21...	1615	1.72			

## CITRUS COUNTY

**WELL NUMBER.--285102082361001. Ozello Well 4 near Crystal River, FL.**

LOCATION.--Lat 28°51'02", long 82°36'10", in SE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.5, T.19 S., R.17 E., Hydrologic Unit 03100207, 1.5 mi west of U. S. Highway 19, and 2.5 mi south of Crystal River. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 3 in., depth 75 ft, cased to 60 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 5.09 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.30 ft above land-surface datum.

PERIOD OF RECORD.--December 1965 to current year (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.52 ft NGVD, Sept. 6, 1974; lowest measured, 0.03 ft NGVD, July 10, 1986.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
22...	0730	2.97	17...	1245	2.65
DEC			JUN		
07...	1253	2.21	21...	1746	2.14
JAN			AUG		
25...	1306	1.90	05...	1740	2.02
MAR			SEP		
19...	1139	1.93	17...	0825	2.59
APR					
21...	1610	2.54			

**WELL NUMBER.--285112082354401. ROMP TR 21-2 Deep Well near Homosassa Springs, FL.**

LOCATION.--Lat 28°51'12", long 82°35'44", in NE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.4, T.19 S., R.17 E., Hydrologic Unit 03100207, 1.0 mi west of U. S. Highway 19, and 3.5 mi northwest of Homosassa Springs. Owner: Southwest Florida Water Management District.

AQUIFER.--Avon Park formation of Eocene Age, Geologic Unit 124 AVPK.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 111 ft, cased to 105 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 3.42 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 4.46 ft above land-surface datum.

PERIOD OF RECORD.--May 1979 to September 1983; October 1983 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.56 ft NGVD, Nov. 10, 1987; lowest measured, 0.06 ft below NGVD, Dec. 17, 1990.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
22...	0740	1.79	17...	1230	1.40
DEC			JUN		
07...	1321	1.62	21...	1735	1.68
JAN			AUG		
25...	1300	1.10	05...	1730	1.33
MAR			SEP		
19...	1146	1.03	17...	0815	1.90
APR					
21...	1600	1.94			

## CITRUS COUNTY

**WELL NUMBER.--285254082323001. Lecanto Well 7 near Lecanto, FL.**

LOCATION.--Lat 28°52'54", long 82°32'30", in NW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.36, T.18 S., R.17 E., Hydrologic Unit 03100207, 2.0 mi northwest of Lecanto, and 3.0 mi south-east of junction U. S. Highway 19 and State Highway 44. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 30 ft, cased to 20 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 10.5 ft, from topographic map. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--May 1966 to current year (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.62 ft NGVD, July 9, 1982; lowest measured, 2.42 ft NGVD, Sept. 14, 1992.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
21...	1428	4.56	17...	1350	3.16
DEC			JUN		
07...	1115	3.86	21...	1450	2.87
JAN			AUG		
25...	1606	3.47	05...	1710	3.05
MAR			SEP		
18...	1430	3.56	16...	0845	3.47
APR					
22...	0655	3.30			

**WELL NUMBER.--285421082361601. Crystal River Shallow Well at Crystal River, FL.**

LOCATION.--Lat 28°54'21", long 82°36'16", in SE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.17, T.18 S., R.17 E., Hydrologic Unit 03100207, 3 ft west of U. S. Highway 19, and 0.2 mi north of Crystal River city limits. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 53 ft, cased to 3.4 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 8.11 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing (corrected), at land-surface datum.

REMARKS.--Water level affected by tidal fluctuations.

PERIOD OF RECORD.--September 1964 to July 1973; February 1975 to current year (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 6.70 ft NGVD, Aug. 1, 1965; lowest measured, 1.56 ft below NGVD, Sept. 10, 1987.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
21...	1520	1.67	21...	1735	2.05
DEC			JUN		
07...	1206	0.96	21...	1625	1.46
JAN			AUG		
25...	1502	1.16	05...	1640	1.16
MAR					
19...	1027	0.91			

## WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

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## CITRUS COUNTY

**WELL NUMBER.--285421082361602. Crystal River Deep Well at Crystal River, FL.**

LOCATION.--Lat 28°54'21", long 82°36'16", in SE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.17, T.18 S., R.17 E., Hydrologic Unit 03100207, 3 ft west of U. S. Highway 19, and 0.2 mi north of Crystal River city limits. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 176 ft, cased to 162 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 8.15 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of shelter floor, 2.50 ft above land-surface datum.

REMARKS.--Water level affected by tidal fluctuations.

PERIOD OF RECORD.--July 1964 to September 1977 (periodic); October 1977 to September 1991; October 1991 to current year (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey. The figures of water level as elevation, in feet NGVD, prior to Oct. 1, 1988, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of +0.18 ft.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 5.15 ft NGVD, Aug. 31, 1985; lowest measured, 0.32 ft below NGVD, Mar. 19, 1993.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
21...	1517	1.72	17...	1500	1.61
DEC			JUN		
07...	1208	0.77	21...	1625	2.01
JAN			AUG		
25...	1500	0.26	05...	1645	1.45
MAR			SEP		
19...	1023	-0.32	17...	0755	1.92
APR					
21...	1730	2.19			

## CITRUS COUNTY

**WELL NUMBER.--285737082400601. Florida Power Corporation Well 3 near Crystal River, FL.**

LOCATION.--Lat 28°57'37", long 82°40'06", in NW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.35, T.17 S., R.16 E., Hydrologic Unit 03100207, 2.5 mi west of U. S. Highway 19, and 4.5 mi northwest of Crystal River. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 3 in., depth 88 ft, cased to 67 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 7.18 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.60 ft above land-surface datum.

PERIOD OF RECORD.--May 1966 to current year (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.73 ft NGVD, Mar. 14, 1978; lowest measured, 0.90 ft NGVD, June 14, 1990.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
21...	1503	3.89	17...	1445	2.62
DEC			JUN		
07...	1155	3.15	21...	1550	1.50
JAN			AUG		
25...	1522	3.34	05...	1605	1.72
MAR			SEP		
19...	1000	4.92	17...	0740	3.67
APR					
21...	1715	3.74			

**WELL NUMBER.--285737082413001. Florida Power Corporation Well 2 near Crystal River, FL.**

LOCATION.--Lat 28°57'37", long 82°41'30", in NW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.33, T.17 S., R.16 E., Hydrologic Unit 03100207, 3.7 mi west of U. S. Highway 19, and 4.5 mi northwest of Crystal River. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 3 in., depth 47 ft, cased to 42 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 4.66 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.90 ft above land-surface datum.

REMARKS.--Water level affected by tidal fluctuations.

PERIOD OF RECORD.--May 1966 to current year (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.72 ft NGVD, Apr. 21, 1993; lowest measured, 1.23 ft NGVD, May 8, 1968.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
21...	1454	3.53	17...	1429	2.96
DEC			JUN		
07...	1140	3.23	21...	1530	2.60
JAN			AUG		
25...	1542	3.27	05...	1555	2.94
MAR			SEP		
19...	0950	3.76	17...	0725	3.37
APR					
21...	1706	4.72			

MISCELLANEOUS WATER LEVEL MEASUREMENTS  
OCTOBER 1992 TO SEPTEMBER 1993

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CITRUS COUNTY

STATION NUMBER	STATION NAME	DATE	ELEV- ATION ABOVE NGVD (FEET)
285234082341901	ROMP TR 21-3 DEEP WELL NR CRYSTAL RIVER, FL	05-17-93	2.57
		09-16-93	2.88

**WATER RESOURCES DATA FOR FLORIDA, 1993**  
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KEY TO SITE LOCATIONS ON FIGURE 12

DE SOTO COUNTY

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8	271757081493002	48
8	271757081493003	49
9	271802081562501	49
10	272012081482501	50

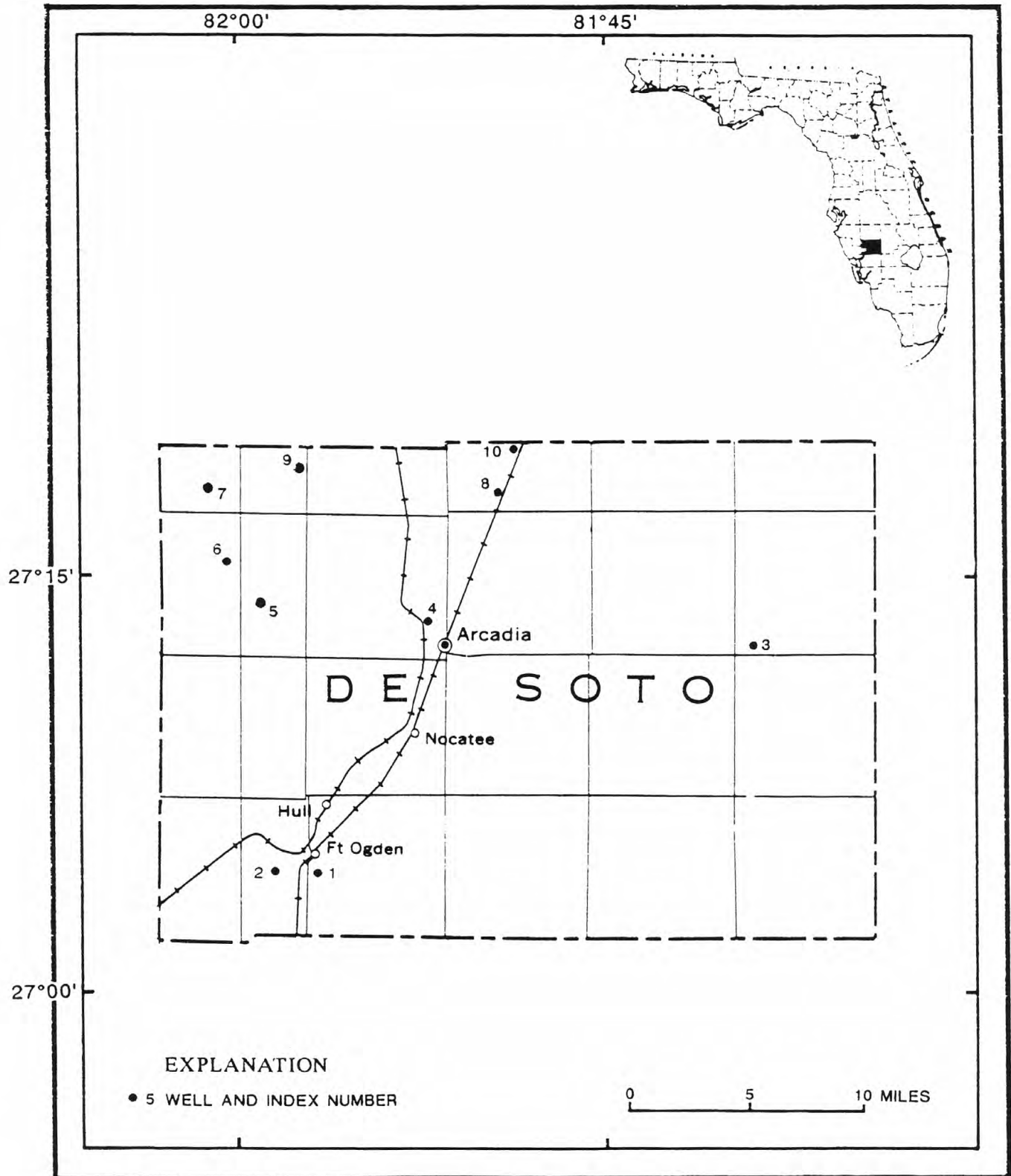


Figure 12.--Location of wells in De Soto County.

## WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

## DE SOTO COUNTY

**WELL NUMBER.--270410081565201. Morgan Deep Well near Fort Ogden, FL.**

LOCATION.--Lat 27°04'10", long 81°56'52", in NW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.19, T.39 S., R.24 E., Hydrologic Unit 03100101, 0.6 mi east of U. S. Highway 17, and 1.8 mi southeast of Fort Ogden. Owner: L. R. Morgan.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused irrigation, artesian well, diameter 6 in., depth 1,010 ft, cased to 208 ft.

INSTRUMENTATION.--Periodic measurement with pressure gage or chalked tape by USGS personnel.

DATUM.--Land-surface datum is 38.53 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of welded cover plate, 2.25 ft above land-surface datum.

PERIOD OF RECORD.--March 1970 to current year (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey. The figures of water level as elevation, in feet NGVD, prior to Oct. 1, 1982, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of +5.53 ft.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 51.12 ft NGVD, Sept. 27, 1978; lowest measured, 29.66 ft NGVD, Jan. 28, 1988.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
DEC 09...	1500	41.48	SEP 23...	1205	48.78
APR 20...	1140	48.98			

**WELL NUMBER.--270414081584701. Lettuce Lake Well near Fort Ogden, FL.**

LOCATION.--Lat 27°04'14", long 81°58'47", in NW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.23, T.39 S., R.23 E., Hydrologic Unit 03100101, 300 ft west of Lettuce Lake Road, 0.4 mi south of State Highway 761, and 2.0 mi southwest of Fort Ogden. Owner: General Development Corporation.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused irrigation, artesian well, diameter 16 in., depth 1,190 ft, cased to 105 ft.

INSTRUMENTATION.--Periodic measurement with pressure gage by USGS personnel.

DATUM.--Elevation of land-surface datum is 21 ft, from topographic map. Measuring point: Top of flange, 3.0 ft above land-surface datum.

PERIOD OF RECORD.--January 1975 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 53.11 ft NGVD, Sept. 27, 1978; lowest measured, 41.09 ft NGVD, Jan. 28, 1988.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
DEC 09...	1520	46.60	JUN 22...	1120	47.98
APR 20...	1220	50.20	SEP 23...	1225	51.75

## DE SOTO COUNTY

**WELL NUMBER.--271232081392201. ROMP 15 Avon Park Well near Arcadia, FL.**

LOCATION.--Lat 27°12'32", long 81°39'22", in NW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.6, T.38 S., R.27 E., Hydrologic Unit 03100101, 75 ft south of State Highway 70, 0.75 mi east of De Soto Correctional Institution, and 11.0 mi east of Arcadia. Owner: Southwest Florida Water Management District.

AQUIFER.--Avon Park formation of Eocene Age, Geologic Unit 124 AVPK.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 10 in., depth 1,360 ft, cased to 577 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 78.89 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 2.00 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby irrigation wells.

PERIOD OF RECORD.--November 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 51.11 ft NGVD, Oct. 4, 1992; lowest, 39.40 ft NGVD, Dec. 25, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	51.09	46.15	48.16	46.89	50.07	50.25	50.41	46.89	46.24	48.27	48.84	49.69
10	51.01	46.21	46.93	47.76	50.21	50.16	50.42	46.50	44.21	48.48	48.12	49.89
15	50.81	46.42	48.09	49.06	50.20	47.04	50.28	45.79	44.34	48.75	48.51	50.03
20	50.49	45.41	46.90	49.67	47.67	48.88	50.35	44.19	45.08	48.74	48.88	50.21
25	48.18	47.73	46.83	50.01	49.34	49.65	49.50	43.26	46.15	47.91	48.86	49.96
EOM	46.89	48.80	45.53	50.16	49.87	49.95	47.36	44.54	47.59	48.72	49.54	49.76
MAX	51.11	48.80	48.55	50.21	50.37	50.32	50.46	47.29	47.59	48.99	49.54	50.22

CAL YR 1992 MAX 51.11

WTR YR 1993 MAX 51.11

**WELL NUMBER.--271232081392202. ROMP 15 NRSD Well near Arcadia, FL.**

LOCATION.--Lat 27°12'32", long 81°39'22", in NW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.6, T.38 S., R.27 E., Hydrologic Unit 03100101, 75 ft south of State Highway 70, 0.75 mi east of De Soto Correctional Institution, and 11.0 mi east of Arcadia. Owner: Southwest Florida Water Management District.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 55 ft, cased to 45 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 78.89 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 10 in. casing, 4.09 ft above land-surface datum.

PERIOD OF RECORD.--October 1987 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 74.61 ft NGVD, Aug. 30, 1990; lowest measured, 70.79 ft NGVD, July 11, 1990.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
08...	1040	72.91	20...	0810	73.24
DEC			JUN		
09...	1305	71.81	22...	1425	70.89
JAN			AUG		
14...	1325	72.21	10...	1545	72.46

## DE SOTO COUNTY

**WELL NUMBER.--271308081522601. Arcadia Well 2 at Arcadia, FL.**

LOCATION.--Lat 27°13'08", long 81°52'26", in NW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.36, T.37 S., R.24 E., Hydrologic Unit 03100101, 900 ft south of intersection State Highway 70 and Baldwin Avenue, and 0.9 mi west of U. S. Highway 17 in Arcadia. Owner: City of Arcadia.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, unused municipal, artesian well, diameter 8 in., depth 372 ft, cased to 263 ft.

INSTRUMENTATION.--Periodic measurement with pressure gage by USGS personnel.

DATUM.--Land-surface datum is 29.33 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 6 in. valve, 3.10 ft above land-surface datum.

PERIOD OF RECORD.--November 1970 to current year (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey. The figures of water level as elevation, in feet NGVD, prior to Oct. 1, 1977, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of +1.33 ft.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 50.45 ft NGVD, Sept. 27, 1978; lowest measured, 34.23 ft NGVD, May 18, 1981.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
DEC 09...	1425	41.63	JUN 22...	0740	43.93
APR 20...	1105	47.63	SEP 14...	1400	47.93
MAY 20...	1210	42.43			

**WELL NUMBER.--271414082000101. Buzzard Roost Surficial Well near Pine Level, FL.**

LOCATION.--Lat 27°14'14", long 82°00'01", in SW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.22, T.37 S., R.23 E., Hydrologic Unit 03100101, 200 ft north of Pine Level Road, and 2.0 mi south of Pine Level. Owner: Harvey Keene.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 9.6 ft, cased to 4.5 ft.

INSTRUMENTATION.--Water-stage recorder--15-minute interval.

DATUM.--Elevation of land-surface datum is 45 ft, from topographic map. Measuring point: Top of recorder shelter floor, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--November 1992 to September 1993.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 43.45 ft NGVD, Sept. 7, 1993; lowest, 40.63 ft NGVD, June 12, 1993.

ELEVATION, IN FEET NGVD, PERIOD NOVEMBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	41.69	41.15	41.08	41.62	42.05	43.20	42.24	41.20	42.20	41.41	42.89
10	---	41.56	41.25	41.75	41.59	41.61	42.32	41.67	40.74	42.45	41.24	42.88
15	---	41.43	41.01	42.24	41.52	42.36	43.25	41.31	41.42	42.83	41.02	---
20	---	41.48	40.98	41.87	41.41	42.48	42.24	41.07	41.35	41.99	40.98	42.25
25	---	41.41	40.94	41.99	41.52	42.21	41.84	40.82	41.55	41.61	---	41.81
EOM	---	41.25	40.86	41.90	42.07	41.79	41.60	41.20	41.48	---	43.10	41.56
MAX	---	---	41.25	42.50	42.29	42.93	43.25	42.26	41.73	---	---	---

## DE SOTO COUNTY

**WELL NUMBER.--271538082002301. AMAX No. 3 Well near Pine Level, FL.**

LOCATION.--Lat 27°15'38", long 82°00'23", in SW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.15, T.37 S., R.23 E., Hydrologic Unit 03100101, 0.7 mi south of State Highway 70, and 1.7 mi north of Pine Level. Owner: Unknown.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused irrigation, artesian well, diameter 8 in., depth 1,547 ft, cased to 340 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Elevation of land-surface datum is 58 ft, from topographic map. Measuring point: Top of recorder shelter floor, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 45.19 ft NGVD, Oct. 12, 1992; lowest, 28.53 ft NGVD, May 28, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	45.07	40.39	40.93	39.11	43.10	42.98	43.27	40.80	36.78	40.25	41.99	43.04
10	45.08	39.78	40.50	39.93	43.21	43.04	43.43	40.37	36.23	40.87	41.25	43.25
15	45.02	---	40.85	41.03	43.22	40.02	43.17	38.55	36.38	41.42	41.81	43.75
20	44.75	38.18	40.35	41.67	41.87	41.26	43.29	37.31	36.48	41.66	42.21	44.04
25	43.82	39.70	39.56	42.42	42.01	42.25	42.88	36.21	37.95	41.09	42.19	43.88
EOM	41.75	40.82	39.11	42.97	42.41	42.79	41.40	35.75	39.25	41.71	42.69	43.33
MAX	45.19	---	40.93	42.97	43.28	43.21	43.45	41.29	39.25	41.74	42.69	44.04

**WELL NUMBER.--271711082022401. West Fork Buzzard Roost Surficial Well near Edgeville, FL.**

LOCATION.--Lat 27°17'11", long 82°02'24", in NE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.6, T.37 S., R.23 E., Hydrologic Unit 03100101, 1,200 ft north of State Highway 70, 1.1 mi east of Manatee County line, and 4.5 mi southeast of Edgeville. Owner: IMC Fertilizer Inc.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 12 ft, cased to 7 ft.

INSTRUMENTATION.--Water-stage recorder--15-minute interval.

DATUM.--Elevation of land-surface datum is 67 ft, from topographic map. Measuring point: Top of recorder shelter floor, 3.30 ft above land-surface datum.

PERIOD OF RECORD.--February to September 1993.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 67.05 ft NGVD, Apr. 1, 5, 1993; lowest, 62.47 ft NGVD, Aug. 23, 1993.

ELEVATION, IN FEET NGVD, PERIOD FEBRUARY TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	65.53	66.88	67.05	65.18	63.14	64.48	63.08	66.94
10	---	---	---	---	65.84	65.63	66.60	64.40	62.90	64.17	62.77	66.95
15	---	---	---	---	65.34	66.75	66.98	64.01	63.16	65.04	62.59	66.92
20	---	---	---	---	65.11	66.90	66.04	63.71	63.42	64.06	62.55	66.43
25	---	---	---	---	65.43	66.90	64.98	63.44	65.15	63.60	63.21	65.79
EOM	---	---	---	---	---	65.43	64.67	63.26	64.75	63.31	66.67	64.81
MAX	---	---	---	---	---	67.02	67.05	65.54	65.20	65.29	66.67	66.96

## DE SOTO COUNTY

**WELL NUMBER.--271757081493001. ROMP 26 Shallow Well near Gardner, FL.**

LOCATION.--Lat 27°17'57", long 81°49'30", in SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.33, T.36 S., R.25 E., Hydrologic Unit 03100101, 235 ft east of U. S. Highway 17, and 3.8 mi south of Gardner. Owner: Southwest Florida Water Management District.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 6 in., depth 15 ft, cased to 10 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 75.37 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 1.70 ft above land-surface datum.

PERIOD OF RECORD.--August 1976 to February 1978 (periodic); March 1978 to current year. The figures of water level as elevation, in feet NGVD, prior to Oct. 1, 1983, are in error. Correct elevations for data published prior to this date may be obtained by using datum corrections of -2.08 ft August 1976 to Sept. 30, 1980, and +1.00 ft Oct. 1, 1980, to Sept. 30, 1983. Revised records are in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 75.11 ft NGVD, June 20, 1982; lowest, 66.00 ft NGVD, Jan. 15, 1991.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	70.85	69.53	68.83	68.25	69.11	69.33	71.03	69.93	70.28	69.75	69.33	69.79
10	70.74	69.38	68.73	68.53	68.99	69.37	70.88	69.83	69.83	69.48	69.07	69.80
15	70.42	69.22	68.65	68.68	68.94	69.96	70.48	69.63	69.51	69.72	68.92	69.92
20	70.16	69.07	68.56	69.08	68.83	70.12	70.91	69.40	69.23	69.81	68.85	69.98
25	69.94	68.99	68.46	69.06	68.80	70.12	70.45	69.20	69.16	69.41	68.71	69.58
EOM	69.70	68.94	68.34	69.21	69.20	70.03	70.14	70.37	69.87	69.35	69.52	69.27
MAX	70.85	69.67	68.92	69.21	69.21	70.16	71.11	70.37	70.42	69.91	69.52	70.04

WTR YR 1993 MAX 71.11

**WELL NUMBER.--271757081493002. ROMP 26 Avon Park Well near Gardner, FL.**

LOCATION.--Lat 27°17'57", long 81°49'30", in SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.33, T.36 S., R.25 E., Hydrologic Unit 03100101, 235 ft east of U. S. Highway 17, and 3.8 mi south of Gardner. Owner: Southwest Florida Water Management District.

AQUIFER.--Avon Park formation of Eocene Age, Geologic Unit 124 AVPK.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 12 in., depth 1,320 ft, cased to 580 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 75.28 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 2.59 ft above land-surface datum.

PERIOD OF RECORD.--March 1978 to current year. The figures of water level as elevation, in feet NGVD, prior to Oct. 1, 1980, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of -2.03 ft. Revised records are in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 51.28 ft NGVD, Oct. 5, 1979; lowest, 29.07 ft NGVD, Feb. 17, 1991.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	50.10	42.20	44.90	42.41	48.05	48.39	48.98	45.59	42.34	44.77	46.17	47.80
10	50.10	42.98	43.98	44.34	48.05	48.64	49.08	45.18	40.39	45.16	45.34	48.02
15	49.81	43.06	44.99	45.94	48.36	40.37	48.92	42.70	39.53	45.82	46.02	48.52
20	49.46	40.67	44.25	46.64	45.02	46.32	48.91	41.15	40.32	46.19	46.68	48.79
25	47.71	43.78	42.78	47.51	47.20	47.57	48.79	38.62	42.03	44.46	46.34	48.65
EOM	44.92	45.45	40.90	47.95	47.85	48.32	46.89	40.12	43.68	45.92	47.33	48.22
MAX	50.22	45.61	45.51	47.95	48.46	49.04	49.10	46.46	43.68	46.28	47.33	48.81

CAL YR 1992 MAX 50.22

WTR YR 1993 MAX 50.22

## DE SOTO COUNTY

**WELL NUMBER.--271757081493003. ROMP 26 Hawthorn Well near Gardner, FL.**

LOCATION.--Lat 27°17'57", long 81°49'30", in SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.33, T.36 S., R.25 E., Hydrologic Unit 03100101, 200 ft east of U. S. Highway 17, and 3.8 mi south of Gardner. Owner: Southwest Florida Water Management District.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 12 in., depth 180 ft, cased to 140 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 75.84 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 2.58 ft above land-surface datum.

PERIOD OF RECORD.--March 1978 to current year. The figures of water level as elevation, in feet NGVD, prior to Oct. 1, 1980, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of -1.98 ft. Revised records are in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 51.17 ft NGVD, Oct. 1, 1979; lowest, 17.17 ft NGVD, May 14, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	49.60	41.51	44.73	41.67	48.02	48.77	48.67	45.29	42.05	44.40	45.78	47.49
10	49.60	41.88	44.06	43.68	48.16	48.79	48.82	45.02	40.25	44.82	45.04	47.61
15	49.07	41.79	44.62	45.56	48.36	---	48.64	42.35	38.88	45.49	45.70	48.32
20	48.83	39.53	43.69	46.34	44.86	45.64	48.68	40.67	39.81	45.88	46.20	48.59
25	46.37	42.81	42.43	47.28	47.46	47.12	48.49	38.01	41.20	44.17	44.43	48.20
EOM	43.86	44.93	40.74	47.86	48.15	47.94	46.81	39.63	43.38	45.48	46.95	47.34
MAX	49.77	45.03	44.99	47.86	48.50	---	48.82	46.33	43.38	46.04	46.95	48.64

**WELL NUMBER.--271802081562501. Carlton Surficial Well near Kinsey, FL.**

LOCATION.--Lat 27°18'02", long 81°56'25", in NW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.32, T.36 S., R.24 E., Hydrologic Unit 03100101, 3.0 mi west of intersection State Highway 661 and Brownsville Road, and 4.0 mi southwest of Kinsey. Owner: Doyle Carlton, Jr.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 15 ft, cased to 5 ft.

INSTRUMENTATION.--Water-stage recorder--15-minute interval.

DATUM.--Elevation of land-surface datum is 60 ft, from topographic map. Measuring point: Top of recorder shelter floor, 2.95 ft above land-surface datum.

PERIOD OF RECORD.--January to September 1993.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 59.99 ft NGVD, Sept. 7, 1993; lowest, 55.14 ft NGVD, June 19, 1993.

ELEVATION, IN FEET NGVD, PERIOD JANUARY TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	55.60	57.05	58.21	59.93	57.35	55.94	56.74	57.89	58.88
10	---	---	---	56.66	57.17	57.48	58.17	56.86	55.57	57.17	57.76	59.86
15	---	---	---	57.24	56.97	58.39	59.93	56.54	55.31	57.89	57.77	59.93
20	---	---	---	57.26	56.80	58.54	57.93	56.26	55.76	57.05	58.43	59.83
25	---	---	---	57.32	57.39	58.58	57.31	55.96	56.87	56.56	58.87	57.80
EOM	---	---	---	57.49	58.14	57.58	57.01	56.21	56.55	57.67	59.33	57.38
MAX	---	---	---	58.02	58.38	---	59.95	57.35	56.88	57.89	59.96	59.99

## WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

## DE SOTO COUNTY

**WELL NUMBER.--272012081482501. Marshall Deep Well near Gardner, FL.**

LOCATION.--Lat 27°20'12", long 81°48'25", in NW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.22, T.36 S., R.25 E., Hydrologic Unit 03100101, 200 ft east of U. S. Highway 17, and 1.0 mi south of Gardner. Owner: Col. D. E. Marshall.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused irrigation, artesian well, diameter 5 in., depth 478 ft, cased to 137 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 62.58 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.12 ft above land-surface datum.

PERIOD OF RECORD.--November 1962 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 55.24 ft NGVD, Mar. 5, 1964; lowest, 18.52 ft NGVD, May 25, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	48.40	43.02	41.87	39.07	44.93	45.09	45.77	44.19	35.56	38.11	41.64	43.61
10	48.58	41.78	41.57	39.87	45.25	45.51	46.14	43.09	35.56	39.20	41.38	44.22
15	48.76	---	41.78	41.60	45.60	41.33	46.37	41.37	34.57	40.37	41.80	45.00
20	48.42	---	41.42	42.64	45.25	42.93	46.69	39.26	33.32	41.12	42.32	45.61
25	47.78	---	40.17	43.73	44.29	43.99	46.30	32.68	34.79	40.14	42.52	45.99
EOM	45.24	---	37.98	44.51	44.45	45.00	45.79	34.03	36.79	40.98	42.91	45.90
MAX	48.80	---	---	44.51	45.71	46.11	46.79	45.53	36.79	41.12	42.91	46.14

MISCELLANEOUS WATER LEVEL MEASUREMENTS  
OCTOBER 1992 TO SEPTEMBER 1993

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DE SOTO COUNTY

STATION NUMBER	STATION NAME	DATE	ELEV- ATION ABOVE NGVD (FEET)
270302081383401	EMERALD IS FARMS WELL D	05-19-93	45.98
		09-15-93	20.70
270325081484701	NAT WOLF CORP IRR WELL NR ARCADIA,FL	05-19-93	45.40
		09-15-93	48.60
270417081575601	ROB LANE DE SOTO 36 WELL (RUSSELL) NR ARCADIA	05-19-93	40.05
		09-16-93	45.85
270438081464301	NICHOLS RANCH D. WELL NR ARCADIA	05-19-93	48.07
		09-16-93	49.92
270440081441401	CROMWELL-ANDERSON WELL 3	05-19-93	43.37
270504081464401	NICHOLS RANCH D. WELL NR ARCADIA,FL	05-19-93	42.97
		09-16-93	44.96
270540082001101	GDU WELL M-2 NR FT OGDEN	05-20-93	48.80
		09-16-93	53.50
270540082001102	GDU WELL T-2 NR FT OGDEN	05-20-93	44.70
		09-16-93	47.40
270858081582201	NUNEZ RED HAWK RANCH WELL NR NOCATEE	05-20-93	41.00
		09-16-93	47.30
271026081583601	ROMP 17 AVPK WELL NR NOCATEE, FL	05-20-93	44.00
		09-16-93	49.30
271026081583604	ROMP 17 TAMP WELL NR NOCATEE, FLA.	05-20-93	39.80
		09-16-93	43.80
271109081541901	MINUTE MAID WELL 43 FBG D-68 NR ARCADIA, FL	05-20-93	41.64
		09-14-93	50.32
271115081462701	ROMP 16 OCALA WELL NR AR	05-19-93	44.89
		09-15-93	49.67
271115081462702	ROMP 16 HAWTHORN WELL NR	10-08-92	51.03
		12-09-92	46.80
		05-19-93	44.80
		09-15-93	49.94
271208082025301	CLAVEL RANCH WELL NR ARCADIA	05-20-93	39.67
		09-14-93	42.50
271228081482801	TOWNSEN RD HWTN ARCADIA	05-19-93	44.35
		09-15-93	51.42
271246081432201	PINDER WELL	05-19-93	45.30
		09-15-93	49.38
271405081453201	BEVIS D. IRR WELL NR ARCADIA	05-19-93	44.87
271407082000401	HOLLINGSWORTH 716 WELL NR ARCADIA, FL	05-20-93	40.54
271416081374601	TRG WELL J14 NR ARCADIA, FLA.	09-15-93	44.50
271417081344801	TRG WELL J32 NR ARCADIA,FLA	09-15-93	44.49
271517081542201	BERTCHER WELL 704 NR ARCADIA, FL	05-20-93	40.34
		09-14-93	46.76

MISCELLANEOUS WATER LEVEL MEASUREMENTS  
OCTOBER 1992 TO SEPTEMBER 1993

DE SOTO COUNTY

STATION NUMBER	STATION NAME	DATE	ELEV- ATION ABOVE NGVD (FEET)
271610081565401	CUNNINGHAM WELL NR ARCADIA, FL	05-20-93	41.02
		09-14-93	46.84
271623081520101	CAMP CHANYATAH WELL 49 NR ARCADIA, FL	05-20-93	31.70
		09-14-93	37.20
271655081345001	TRG WELL J35 NR ARCADIA, FLA	09-15-93	48.65
271720081521501	SORRELLS BROS WELL 8 NR ARCADIA, FL	05-20-93	37.12
		09-14-93	38.27
271733081471801	MCINTYRE WELL NR ARCADIA	09-14-93	46.11
271743081374601	TRG DEEP WELL J18.1 NR ARCADIA	05-19-93	30.44
		09-15-93	49.45
271746081404301	S. TOMATO GRO. WELL NR ARCADIA, FLA	05-19-93	41.09
		09-15-93	37.78
271746081453501	FLA POWER & LIGHT WELL NEAR ARCADIA, FL	05-20-93	39.96
		09-14-93	48.08
271748081345101	TRG WELL J36 NR ARCADIA, FLA	05-19-93	43.42
271937081365901	SCARBOROUGH DEEP WELL NR CREWSVILLE	05-18-93	39.69
		09-14-93	46.58
272014081595701	HOLLINGSWORTH WELL 751 NR ARCADIA, FL	05-17-93	71.76
		09-13-93	72.69
272015081392701	AMOCA 2 OIL TEST WELL NR ARCADIA, FL	05-18-93	54.75
		09-14-93	57.07



**WATER RESOURCES DATA FOR FLORIDA, 1993**  
**Volume 3B: Southwest Florida Ground Water**

KEY TO SITE LOCATIONS ON FIGURE 13

HARDEE COUNTY

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3	272924081395801	58
4	272950082015701	58
5	273144081562401	59
6	273156081451401	59
7	273345081595301	60
8	273546082025201	60

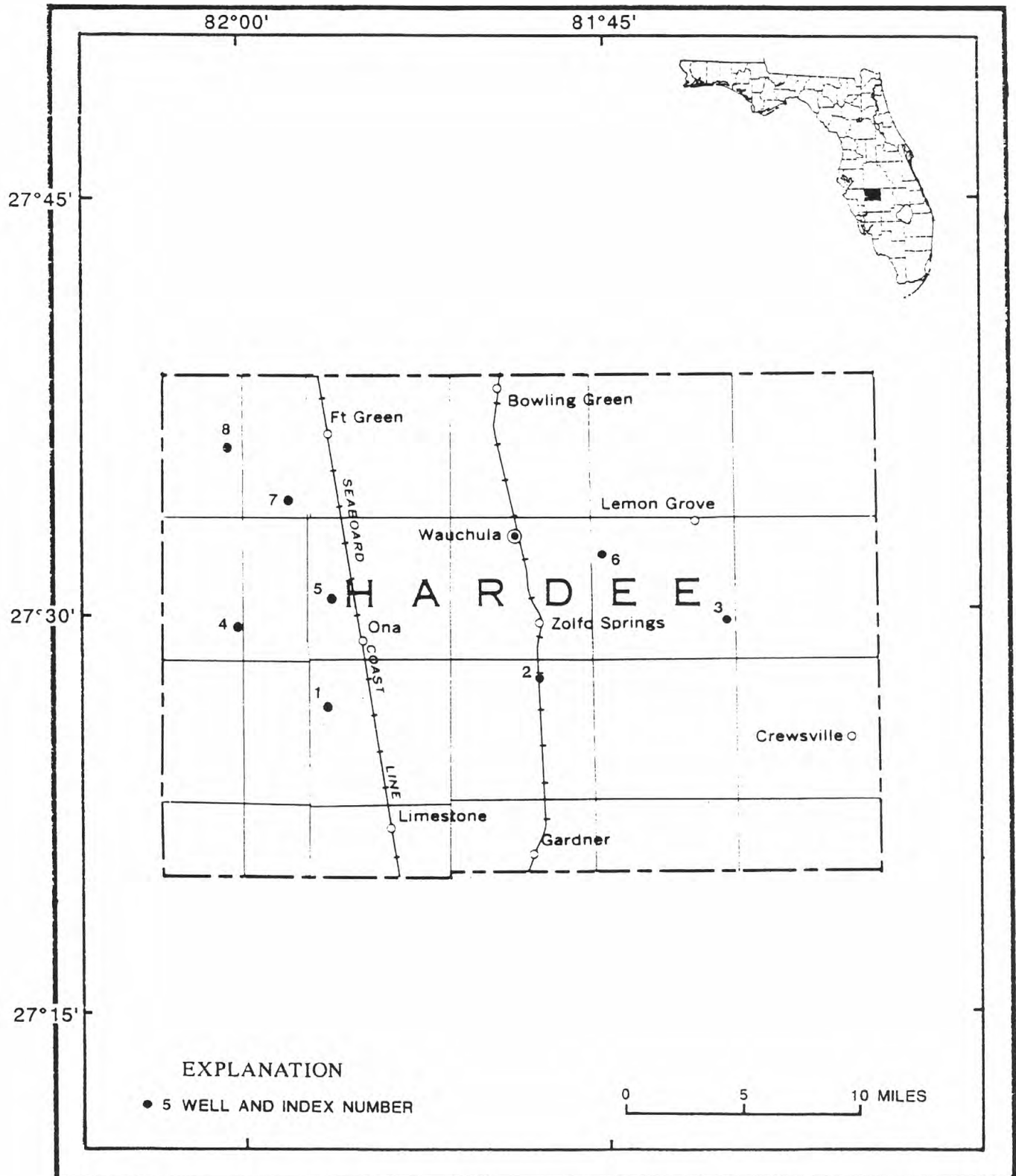


Figure 13.--Location of wells in Hardee County.

## HARDEE COUNTY

**WELL NUMBER.--272527081584901. Brushy Creek Surficial Well near Ona, FL.**

LOCATION.--Lat 27°25'27", long 81°58'49", in NW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.23, T.35 S., R.23 E., Hydrologic Unit 03100101, 1.1 mi north of bridge on Goose Pond Road over Horse Creek, 4.0 mi west of State Highway 663, and 5.0 mi southwest of Ona. Owner: IMC-Agrico.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 8 ft, cased to 3.5 ft.

INSTRUMENTATION.--Water-stage recorder--15-minute interval.

DATUM.--Elevation of land-surface datum is 65 ft, from topographic map. Measuring point: Top of recorder shelter floor, 3.35 ft above land-surface datum.

PERIOD OF RECORD.--November 1992 to September 1993.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 64.98 ft NGVD, Apr. 15, 1993; lowest, 59.99 ft NGVD, Aug. 27, 1993.

ELEVATION, IN FEET NGVD, PERIOD NOVEMBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	61.19	60.43	60.03	61.28	61.28	64.92	62.35	61.17	61.89	60.65	61.55
10	---	61.01	60.36	60.66	61.12	61.09	64.05	62.03	60.83	62.21	60.41	62.06
15	---	60.85	60.28	60.90	60.96	62.24	64.98	61.73	60.63	61.53	60.26	61.81
20	---	60.73	60.24	61.35	60.78	62.51	63.63	61.44	62.09	61.21	60.18	61.57
25	---	60.65	60.17	61.11	60.73	63.05	62.82	61.16	62.59	60.92	60.03	61.15
EOM	---	60.51	60.07	61.57	61.23	62.30	62.57	61.64	62.15	60.65	61.78	60.86
MAX	---	---	60.48	61.77	61.49	63.05	64.98	62.52	62.62	62.81	61.78	62.14

**WELL NUMBER.--272728081474701. ROMP 30 Avon Park Well near Zolfo Springs, FL.**

LOCATION.--Lat 27°27'28", long 81°47'47", in SW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.3, T.35 S., R.25 E., Hydrologic Unit 03100101, 200 ft east of State Highway 17, 0.25 mi north of State Highway 684, and 2.4 mi south of Zolfo Springs. Owner: Southwest Florida Water Management District.

AQUIFER.--Avon Park formation of Eocene Age, Geologic Unit 124 AVPK.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 8 in., depth 1,266 ft, cased to 380 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 66.73 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of recorder shelter floor, 4.50 ft above land-surface datum.

PERIOD OF RECORD.--August 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 59.54 ft NGVD, Oct. 15, 1982; lowest, 13.00 ft NGVD, estimated, May 27, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	53.80	47.28	45.49	44.72	50.37	51.43	52.02	49.90	35.96	39.48	43.70	46.57
10	54.21	45.64	46.22	45.75	51.23	51.87	52.62	47.03	35.30	40.86	43.17	47.65
15	54.42	42.93	46.62	46.99	51.08	47.20	53.10	43.22	33.52	42.21	44.18	49.11
20	54.44	41.96	46.22	47.78	50.33	48.20	53.52	38.80	32.61	43.40	44.96	50.07
25	53.49	43.00	45.02	49.04	50.22	49.60	53.44	35.37	34.70	42.91	43.50	50.85
EOM	50.27	44.47	44.90	50.06	50.61	50.85	52.36	33.42	37.52	43.59	45.50	50.90
MAX	54.64	49.76	46.62	50.06	51.38	52.21	53.64	51.74	37.52	43.59	45.50	51.09

CAL YR 1992    MAX 54.64  
WTR YR 1993    MAX 54.64

## HARDEE COUNTY

**WELL NUMBER.--272728081474702. ROMP 30 Tampa Well near Zolfo Springs, FL.**

LOCATION.--Lat 27°27'28", long 81°47'47", in SW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.3, T.35 S., R.25 E., Hydrologic Unit 03100101, 200 ft east of State Highway 17, 0.25 mi north of State Highway 684, and 2.4 mi south of Zolfo Springs. Owner: Southwest Florida Water Management District.

AQUIFER.--Tampa limestone formation of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 8 in., depth 316 ft, cased to 280 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 66.73 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of shelter floor, 4.11 ft above land-surface datum.

PERIOD OF RECORD.--October 1981 to September 1989; October 1989 to September 1990, October 1991 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 57.34 ft NGVD, Apr. 19, 1983; lowest, 19.60 ft NGVD, estimated, May 27, 1989.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
14...	1410	54.21	19...	1400	53.94
NOV			MAY		
03...	1300	51.25	17...	1510	45.90
DEC			JUN		
14...	1325	48.97	15...	1430	38.26
JAN			AUG		
15...	1350	49.09	15...	1030	45.24
MAR			SEP		
16...	1340	50.79	13...	1805	49.57

**WELL NUMBER.--272728081474703. ROMP 30 Shallow Well near Zolfo Springs, FL.**

LOCATION.--Lat 27°27'28", long 81°47'47", in SW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.3, T.35 S., R.25 E., Hydrologic Unit 03100101, 200 ft east of State Highway 17, 0.25 mi north of State Highway 684, and 2.4 mi south of Zolfo Springs. Owner: Southwest Florida Water Management District.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 111 NRSD.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 8 in., depth 15 ft, cased to 5 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 66.73 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of recorder shelter floor, 4.12 ft above land-surface datum.

PERIOD OF RECORD.--August 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 66.92 ft NGVD, June 20, 1982; lowest, 62.10 ft NGVD, June 3, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	66.18	63.84	63.84	63.60	64.50	65.29	66.39	63.76	63.39	62.60	63.23	64.30
10	65.80	63.69	63.96	64.47	64.42	64.43	65.19	63.39	62.88	62.42	62.98	64.92
15	64.92	63.57	63.68	65.26	64.10	65.69	65.95	63.16	62.66	62.80	62.88	64.90
20	64.40	63.58	63.52	64.74	63.96	65.57	64.79	63.19	62.49	62.51	62.61	65.18
25	64.19	64.30	63.41	65.40	64.38	66.27	64.16	62.84	62.49	63.12	63.43	64.29
EOM	63.96	63.94	63.28	64.99	64.97	64.86	63.83	63.58	62.90	63.25	65.19	63.81
MAX	66.66	64.30	63.97	66.01	65.26	66.27	66.50	63.77	63.57	63.25	65.20	65.34

CAL YR 1992 MAX 66.66

WTR YR 1993 MAX 66.66

## WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

## HARDEE COUNTY

**WELL NUMBER.--272924081395801. Hass Bryan Road Well near Zolfo Springs, FL.**

LOCATION.--Lat 27°29'24", long 81°39'58", in NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.25, T.34 S., R.26 E., Hydrologic Unit 03100101, 0.7 mi south of State Highway 636, and 8.0 mi east of Zolfo Springs. Owner: Frank Hass.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, irrigation, artesian well, diameter 10 in.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 80 ft, from topographic map. Measuring point: Top of access hole, 0.20 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby irrigation wells.

PERIOD OF RECORD.--January 1970 to current year (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 79.02 ft NGVD, Sept. 20, 1979; lowest measured, 33.00 ft NGVD, Dec. 14, 1992.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
14...	1630	65.42	21...	1255	69.38
DEC			MAY		
14...	1145	33.00	18...	1152	59.75
JAN			SEP		
15...	1440	42.87	14...	1551	68.04
MAR					
19...	1130	64.12			

**WELL NUMBER.--272950082015701. West Fork Horse Creek Surficial Well near Myakka Head, FL.**

LOCATION.--Lat 27°29'50", long 82°01'57", in NE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.29, T.34 S., R.23 E., Hydrologic Unit 03100101, 500 ft north of Owen Roberts Road, 0.75 mi north of State Highway 64, 1.3 mi east of Manatee County line, and 3.5 mi northeast of Myakka Head. Owner: Doyle Carlton, Jr.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 14 ft, cased to 9 ft.

INSTRUMENTATION.--Water-stage recorder--15 minute interval.

DATUM.--Elevation of land-surface datum is 102 ft, from topographic map. Measuring point: Top of recorder shelter floor, 3.52 ft above land-surface datum.

PERIOD OF RECORD.--December 1992 to September 1993.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 100.55 ft NGVD, Apr. 16, 1993; lowest, 94.73 ft NGVD, Sept. 12, 1993.

ELEVATION, IN FEET NGVD, PERIOD DECEMBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	96.94	96.31	98.06	98.18	---	98.92	97.52	96.81	95.39	94.83
10	---	---	96.83	96.96	97.95	98.04	99.93	99.12	97.17	96.57	95.22	94.75
15	---	---	96.78	97.34	97.74	98.64	100.54	98.67	96.92	96.35	95.06	95.39
20	---	---	96.64	98.09	97.57	98.68	99.76	98.26	96.78	96.13	95.05	95.63
25	---	---	96.53	97.91	97.82	98.81	99.21	97.93	97.37	95.87	94.96	95.39
EOM	---	---	96.39	98.10	98.10	98.84	98.89	97.74	97.06	95.59	94.84	95.07
MAX	---	---	97.06	98.11	98.10	---	---	99.12	97.72	97.01	95.55	95.63

## HARDEE COUNTY

**WELL NUMBER.--273144081562401. Lettis Creek Surficial Well at Vandolah, FL.**

LOCATION.--Lat 27°31'44", long 81°56'24", in NW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.17, T.35 S., R.24 E., Hydrologic Unit 03100101, 1.0 mi west of intersection State Highway 661 and Vandolah Road, 1.0 mi west of Vandolah, and 3.0 mi north of State Highway 64. Owner: Doyle Carlton, Jr.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 16 ft, cased to 9 ft.

INSTRUMENTATION.--Water-stage recorder--15-minute interval.

DATUM.--Elevation of land-surface datum is 105 ft, from topographic map. Measuring point: Top of recorder shelter floor, 2.95 ft above land-surface datum.

PERIOD OF RECORD.--January to September 1993.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 102.19 ft NGVD, Apr. 16, 1993; lowest, 96.84 ft NGVD, Aug. 28, 1993.

ELEVATION, IN FEET NGVD, PERIOD JANUARY TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	98.56	99.70	99.55	102.15	100.56	99.21	97.98	97.71	98.48
10	---	---	---	98.45	99.50	99.58	101.79	100.30	99.00	97.82	97.32	98.41
15	---	---	---	98.68	99.31	100.14	101.79	100.07	98.75	97.65	97.18	98.90
20	---	---	---	99.58	99.15	100.16	101.70	99.81	98.50	97.49	97.05	99.19
25	---	---	---	99.53	99.21	100.20	101.20	99.55	98.27	97.44	96.92	98.90
EOM	---	---	---	99.80	99.41	101.01	100.88	99.33	98.12	97.90	97.74	98.55
MAX	---	---	---	99.80	99.80	---	102.19	100.77	99.38	98.10	97.90	99.19

**WELL NUMBER.--273156081451401. Rowell Deep Well near Wauchula, FL.**

LOCATION.--Lat 27°31'56", long 81°45'14", in SE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.7, T.34 S., R.26 S., Hydrologic Unit 03100101, 0.5 mi south of State Highway 652, and 4.0 mi east of Wauchula. Owner: Stacey Rowell.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, unused irrigation, artesian well, diameter 6 in., depth 267 ft, cased to 39 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 98.14 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.87 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby industrial and irrigation wells.

PERIOD OF RECORD.--September 1962 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

REVISED RECORDS.--WDR FL-76-3: 1975.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 73.44 ft NGVD, Oct. 18, 1962; lowest, 21.70 ft NGVD, May 27, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	62.87	56.37	57.20	56.26	61.67	62.56	63.13	59.23	48.35	50.20	52.26	56.72
10	63.31	54.52	57.82	57.75	61.92	62.82	63.50	---	43.55	51.24	52.89	58.16
15	63.72	53.01	57.67	58.88	61.81	55.77	63.54	---	45.28	52.75	54.35	59.65
20	63.27	51.97	57.79	59.25	61.00	59.58	64.12	49.91	42.43	52.62	---	60.54
25	61.72	54.30	56.69	60.52	61.51	61.15	63.78	44.83	46.31	52.00	52.04	61.02
EOM	57.68	56.31	56.02	61.27	61.93	62.16	60.88	46.02	48.69	52.82	55.50	60.93
MAX	63.80	58.19	58.02	61.27	62.13	62.88	64.17	---	48.70	53.17	---	61.26

## WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

## HARDEE COUNTY

**WELL NUMBER.--273345081595301. Mitchell Hammock Surficial Well near Ft. Green Springs, FL.**

LOCATION.--Lat 27°33'45", long 81°59'53", in NE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.34, T.33 S., R.23 E., Hydrologic Unit 03100101, 2.0 mi south of State Highway 62, 4.0 mi south-west of Ft. Green Springs, and 4.3 mi east of Manatee County line. Owner: C. F. Industries.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 16 ft, cased to 11 ft.

INSTRUMENTATION.--Water-stage recorder--15-minute interval.

DATUM.--Elevation of land-surface datum is 120 ft, from topographic map. Measuring point: Top of recorder shelter floor, 3.35 ft above land-surface datum.

PERIOD OF RECORD.--December 1992 to September 1993.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 118.89 ft NGVD, Jan. 27, 1993; lowest, 113.39 ft NGVD, Aug. 24, 1993.

ELEVATION, IN FEET NGVD, PERIOD DECEMBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	115.58	117.32	117.17	117.88	115.40	114.47	115.01	114.25	114.90
10	---	---	---	116.96	117.20	116.49	---	115.22	114.00	114.65	113.75	115.41
15	---	---	115.42	118.35	116.93	117.19	---	114.92	114.25	114.49	113.48	116.29
20	---	---	115.20	117.73	116.18	117.31	---	114.63	114.04	114.32	113.78	115.66
25	---	---	115.06	118.69	116.89	117.49	115.86	114.31	115.06	114.56	113.51	115.45
EOM	---	---	114.92	117.99	117.32	117.12	115.49	114.85	114.92	114.47	115.14	115.06
MAX	---	---	---	118.89	---	117.75	---	115.55	115.16	115.07	115.14	116.29

**WELL NUMBER.--273546082025201. Watkins Road Surficial Well near Duette, FL.**

LOCATION.--Lat 27°35'46", long 82°02'52", in SE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.19, T.33 S., R.23 E., Hydrologic Unit 03100101, 100 ft east of Watkins Road, 1,200 ft north of State Highway 62, and 5.0 mi east of Duette. Owner: C. F. Industries.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 13 ft, cased to 8 ft.

INSTRUMENTATION.--Water-stage recorder--15-minute interval.

DATUM.--Elevation of land-surface datum is 125 ft, from topographic map. Measuring point: Top of recorder shelter floor, 3.33 ft above land-surface datum.

PERIOD OF RECORD.--December 1992 to September 1993.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 124.32 ft NGVD, Apr. 1, 1993; lowest, 119.79 ft NGVD, Aug. 24, 1993.

ELEVATION, IN FEET NGVD, PERIOD DECEMBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	120.56	122.35	122.69	124.24	122.58	120.92	---	120.81	122.22
10	---	---	121.10	121.62	122.19	122.11	123.80	121.88	---	---	120.26	122.45
15	---	---	120.94	122.87	121.98	123.06	124.26	121.51	---	---	120.09	123.20
20	---	---	120.72	122.63	121.77	123.06	123.17	121.15	---	---	119.94	122.46
25	---	---	120.60	122.82	122.44	---	122.53	120.78	---	120.17	120.39	122.51
EOM	---	---	120.52	122.78	122.83	123.01	122.11	121.52	---	121.27	122.02	121.93
MAX	---	---	---	123.15	123.06	---	124.32	122.72	---	---	122.08	123.22

MISCELLANEOUS WATER LEVEL MEASUREMENTS  
OCTOBER 1992 TO SEPTEMBER 1993

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HARDEE COUNTY

STATION NUMBER	STATION NAME	DATE	ELEV- ATION ABOVE NGVD (FEET)
272038081530701	LIMESTONE LAND 622 WELL NR LIMESTONE, FL	05-17-93	38.04
		09-14-93	44.24
272041081562301	CARLTON JR WELL NR LIMESTONE, FL NO. 244	05-17-93	28.54
		09-13-93	33.37
272108081582601	HOLLINGSWORTH WELL 620 NR LIMESTONE, FL	05-17-93	27.71
		09-13-93	35.37
272129081391001	FLINT D. WELL NR CREWSVILLE, FL	05-18-93	46.14
		09-14-93	52.51
272351081474301	GRIFFIN-ZOLFO SPRINGS WELL NO. 723147123 221	09-14-93	44.06
272433081591801	WHALEY WELL 632 NR LIMESTONE, FL	05-17-93	34.41
		09-13-93	39.83
272442082015201	STEPHENS D. WELL NR ONA, FL NO. 724201132 344	05-17-93	26.05
		09-13-93	34.44
272509081410401	MARRLS DP WELL NR GARDNER NO. 411	05-18-93	44.70
		09-14-93	53.33
272620081394901	CARLTON WELL HA-59 NR ZOLFO SPRINGS, FL	05-18-93	65.65
		09-14-93	68.93
272714081545901	ROMP 31 AVON PARK WELL NR ONA, FL	05-17-93	38.80
		09-13-93	44.80
272714081545902	ROMP 31 HAWTHORN WELL NR ONA, FL	10-07-92	51.37
		05-17-93	41.70
		09-13-93	46.20
272715081401601	WILBUR ROBERTSON WELL NR ZOLFO SPRINGS, FL NO. 124	05-18-93	52.97
		09-14-93	60.21
272732081411301	ROBERTSON D. WELL NR ZOLFO SPGS. NO. 342	05-18-93	53.09
		09-14-93	60.75
272855081400701	-PEACE RIVER RANCH NO. 231 NR CREWSVILLE	05-18-93	57.35
		09-14-93	65.18
272917081453901	ANDERSON WELL (HARDEE 601) NO. 442 NR ZOLFO SPRGS	05-17-93	52.88
		09-13-93	59.96
272944081474001	CITY OF ZOLFO SPGS D. WELL AT ZOLFO SPGS. NO. 242	05-18-93	47.81
		09-14-93	55.60
273103081363701	SMITH DP WELL NO. 731136344 333 NR LEMON GROVE	05-18-93	63.76
		09-14-93	71.87
273108081461301	W.D. BOND WELL HA-89 NO. 323 NR WAUCHULA	05-17-93	48.55
		09-13-93	58.14
273145081433601	RICHARDSON WELL 616 NR WAUCHULA, FL	05-18-93	53.76
		09-14-93	63.36
273331081414601	TROGDEN WELL NR ZOLFO SPRINGS	05-18-93	59.44
		09-14-93	68.56
273435081444001	W.B. GEIGER WELL NR WAUCHULA, FL	05-17-93	55.65
		09-14-93	66.40

MISCELLANEOUS WATER LEVEL MEASUREMENTS  
OCTOBER 1992 TO SEPTEMBER 1993

HARDEE COUNTY

STATION NUMBER	STATION NAME	DATE	ELEV- ATION ABOVE NGVD (FEET)
273458081342601	SHEARER D. WELL NR LEMON GROVE NO.141	05-18-93	73.35
		09-13-93	78.05
273555081403001	JOHN WHITE WELL 627 NR WAUCHULA, FL	05-18-93	83.69
		09-14-93	90.76
273714081483101	ST OF FLORIDA, PAYNES CREEK HISTORIC SITE	05-17-93	58.57
		09-13-93	61.97
273813081491201	BRYAN HWIN AT BOWLING GN	05-17-93	71.90
		09-13-93	65.55
273828081515802	AGRI CHEMICALS W. WELL HA-1 NR BOWLING GREEN, FL	05-17-93	62.90
273829081514901	USS AGRI-CHEM LF-5 NR BOWLING GREEN , FL	05-17-93	64.02
		09-13-93	67.89
273834081464701	WHITEHURST DP WELL NR BOWLING GREEN 738146134 22-	05-17-93	57.63
		09-13-93	67.36



**WATER RESOURCES DATA FOR FLORIDA, 1993**  
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KEY TO SITE LOCATIONS ON FIGURE 14

HERNANDO COUNTY

INDEX NUMBER	SITE NUMBER	PAGE NUMBER
1	282605082345801	66
2	282613082381701	66
2	282613082381702	67
2	282613082381703	67
3	282636082221401	68
4	282742082375901	68
5	282851082271601	69
6	283201082315601	69
7	283650082313301	70

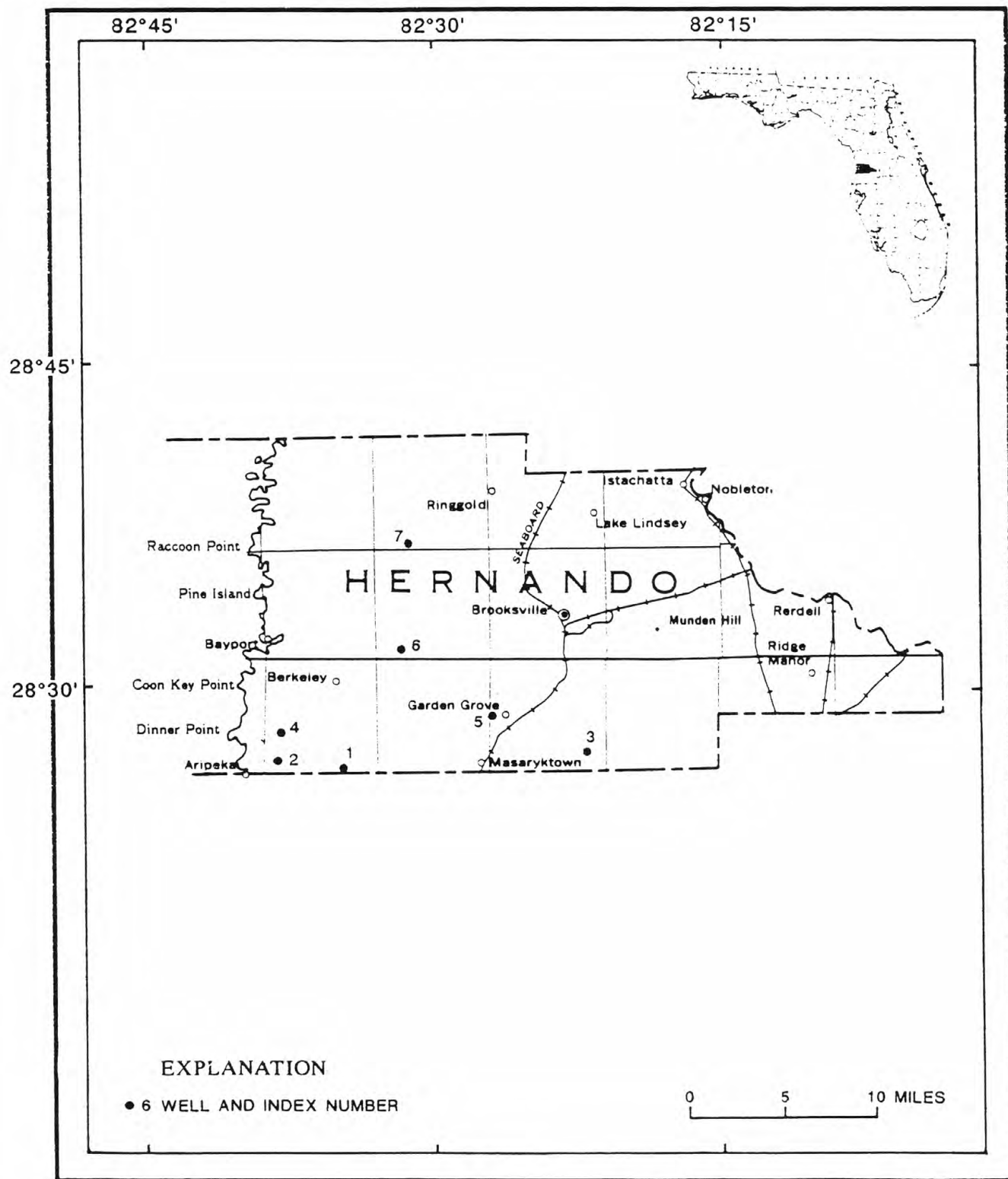


Figure 14.--Location of wells in Hernando County.

## WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

## HERNANDO COUNTY

**WELL NUMBER.--282605082345801. ROMP 97 Deep Well near Aripeka, FL.**

LOCATION.--Lat 28°26'05", long 82°34'58", in SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.35, T.23 S., R.17 E., Hydrologic Unit 03100207, 300 ft north of State Highway 578, 3.5 mi east of U. S. Highway 19, and 5.0 mi east of Aripeka. Owner: Southwest Florida Water Management District.

AQUIFER.--Avon Park formation of Eocene Age, Geologic Unit 124 AVPK.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 355 ft, cased to 310 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 32.54 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.65 ft above land-surface datum.

PERIOD OF RECORD.--June 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 25.77 ft NGVD, Aug. 27, 1984; lowest, 13.82 ft NGVD, July 16, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	18.58	17.92	17.14	16.73	16.37	16.42	16.46	15.64	15.05	14.75	15.08
10	---	18.50	17.85	17.05	16.64	16.24	16.54	16.30	15.45	14.95	14.65	15.18
15	---	18.33	17.68	17.02	16.62	16.25	16.64	16.18	15.36	14.93	14.73	15.26
20	19.07	18.21	17.58	16.99	16.53	16.24	16.69	16.02	15.23	14.87	14.85	15.30
25	18.93	18.07	17.40	16.91	16.43	16.27	16.64	15.83	15.08	14.92	14.68	15.30
EOM	18.70	18.04	17.26	16.83	16.40	16.27	16.57	15.81	15.12	14.91	14.94	15.16
MAX	---	18.66	18.03	17.24	16.83	16.39	16.70	16.56	15.81	15.13	14.94	15.32

**WELL NUMBER.--282613082381701. ROMP TR 18-3 FLRD Well near Aripeka, FL.**

LOCATION.--Lat 28°26'13", long 82°38'17", in SW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.31, T.23 S., R.17 E., Hydrologic Unit 03100207, 300 ft east of U. S. Highway 19, and 1.7 mi northeast of Aripeka. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 16 in., depth 378 ft, cased to 58 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 20.77 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 0.80 ft above land-surface datum.

REMARKS.--Water level affected by tidal fluctuations.

PERIOD OF RECORD.--October 1987 to current year. Prior to October 1988, published as ROMP TR 18-3 Lower Avon Park Well near Aripeka.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 15.36 ft NGVD, Sept. 10, 15, 1988; lowest, 10.37 ft NGVD, Aug. 11, 1993.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.47	12.88	12.33	11.96	11.93	11.77	12.05	11.80	11.25	10.79	10.51	10.81
10	13.50	12.74	12.41	---	11.82	11.70	12.04	11.65	11.04	10.63	10.39	10.84
15	13.36	12.51	12.19	---	11.81	11.61	12.09	11.51	10.98	10.65	10.76	10.87
20	13.14	12.54	12.16	---	11.73	11.58	12.07	11.50	10.94	10.67	10.80	10.97
25	13.18	12.55	12.14	---	11.73	11.78	12.01	11.35	10.81	10.64	10.66	10.92
EOM	12.93	12.41	11.89	11.88	11.67	11.80	11.80	11.36	10.89	10.66	10.83	10.73
MAX	13.59	12.88	12.49	---	11.98	12.64	12.13	11.85	11.37	10.89	10.87	11.02

CAL YR 1992 MAX 13.59

**WELL NUMBER.--282613082381702. ROMP TR 18-3 Upper Avon Park Well near Aripeka, FL.**

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.97 ft NGVD, Oct. 13, 1988; lowest measured, 9.00 ft NGVD, June 7, 1991.

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
DEC 08...	0856	11.70	JUN 21...	0822	10.53
JAN 29...	1404	11.43	AUG 06...	1813	10.38
MAY 18...	1140	11.27	SEP 17...	1415	10.91

**EXTREMES FOR PERIOD OF RECORD.**--Highest daily maximum water level, 16.46 ft NGVD, Sept. 9, 1988; well dry at times some years.

[illegible]

## HERNANDO COUNTY

**WELL NUMBER.--282636082221401. Weeki Well 11 near Masaryktown, FL.**

LOCATION.--Lat 28°26'36", long 82°22'14", in SW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.36, T.23 S., R.19 E., Hydrologic Unit 03100207, 5 ft east of State Highway 581, and 5.3 mi east of Masaryktown. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 69 ft, cased to 68 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 101.00 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--January to December 1967 (periodic); January 1968 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 58.74 ft NGVD, Apr. 5, 1970; lowest, 35.74 ft NGVD, Aug. 30, 31, 1993.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	36.78	37.08	37.01	36.71	36.87	36.63	37.48	37.12	36.38	36.10	36.06	35.87
10	37.10	37.03	36.92	36.64	36.74	36.74	37.42	37.00	36.32	36.17	36.00	36.02
15	37.40	36.99	36.90	36.64	36.65	36.84	37.48	36.86	36.26	36.24	35.94	36.08
20	37.38	36.96	36.84	36.81	36.60	36.97	37.55	36.74	36.21	36.16	35.87	36.28
25	37.30	36.93	36.81	36.82	---	37.07	37.48	36.62	36.13	36.08	35.80	36.51
EOM	37.13	36.99	36.76	36.93	---	37.10	37.32	36.50	36.11	36.13	35.74	36.67
MAX	37.42	37.11	37.01	36.93	---	---	37.55	37.28	36.47	36.24	36.12	36.67

**WELL NUMBER.--282742082375901. ROMP TR 18-1 Deep Well near Aripeka, FL.**

LOCATION.--Lat 28°27'42", long 82°37'59", in NW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.29, T.23 S., R.17 E., Hydrologic Unit 03100207, 100 ft south of State Highway 595, 0.7 mi west of U. S. Highway 19, and 3.2 mi northeast of Aripeka. Owner: Southwest Florida Water Management District.

AQUIFER.--Avon Park formation of Eocene Age, Geologic Unit 124 AVPK.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 580 ft, cased to 445 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 15.29 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.88 ft above land-surface datum.

PERIOD OF RECORD.--April 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 17.52 ft NGVD, Sept. 11, 1988; lowest, 11.73 ft NGVD, July 11, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.89	15.17	14.74	14.31	14.24	14.26	14.50	14.03	13.40	12.92	12.78	13.21
10	15.82	15.02	14.79	14.44	14.21	14.11	14.40	13.85	13.14	12.72	12.73	13.28
15	15.62	14.82	14.55	14.51	14.21	14.26	14.55	13.72	13.08	12.84	13.05	13.31
20	15.42	14.82	14.56	14.47	14.16	14.18	14.42	13.64	12.94	12.87	12.99	13.34
25	15.35	14.82	14.41	14.38	14.18	14.29	14.25	13.44	12.97	13.09	12.97	13.37
EOM	15.10	14.84	14.29	14.30	14.13	14.31	14.10	13.59	13.13	13.02	13.20	13.15
MAX	15.91	15.17	14.82	14.53	14.39	14.69	14.55	14.10	13.61	13.13	13.20	13.44

CAL YR 1992    MAX 15.91  
WTR YR 1993    MAX 15.91

## HERNANDO COUNTY

**WELL NUMBER.--282851082271601. Airport Well near Masaryktown, FL.**

LOCATION.--Lat 28°28'51", long 82°27'16", in SE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.13, T.23 S., R.18 E., Hydrologic Unit 03100207, 0.2 mi north of Brooksville Airport, and 2.7 mi north of Masaryktown. Owner: City of Brooksville.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused industrial, artesian well, diameter 8 in., depth 251 ft, cased to 80 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 65.66 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1 in. bushing, 1.15 ft above land-surface datum.

PERIOD OF RECORD.--August 1960 to current year (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 61.68 ft NGVD, Oct. 19, 1960; lowest measured, 24.96 ft NGVD, Sept. 16, 1993.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
21...	1312	27.67	18...	1445	25.77
DEC			JUN		
07...	1000	28.17	18...	1232	25.47
JAN			AUG		
26...	0922	27.31	09...	1148	25.08
MAR			SEP		
18...	1247	25.88	16...	1320	24.96
APR					
21...	1335	25.84			

**WELL NUMBER.--283201082315601. Weeki Wachee Well near Weeki Wachee, FL.**

LOCATION.--Lat 28°32'01", long 82°31'56", in SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.29, T.22 S., R.18 E., Hydrologic Unit 03100207, 25 ft north of State Highway 50, and 2.6 mi east of Weeki Wachee. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 259 ft, cased to 176 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 36.49 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.08 ft above land-surface datum.

PERIOD OF RECORD.--August 1966 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 23.91 ft NGVD, Aug. 27, 28, 1984; lowest, 13.11 ft NGVD, July 17, 18, 19, 1992.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.29	16.83	16.24	15.50	14.99	14.57	14.43	14.23	13.75	13.60	14.34	14.73
10	16.82	16.74	16.20	15.42	14.87	14.48	14.44	14.16	13.65	13.64	14.25	14.90
15	17.03	16.61	16.03	15.32	14.80	14.46	14.42	14.07	13.63	13.70	14.18	15.05
20	17.05	16.52	15.88	15.28	14.72	14.44	14.41	13.97	13.55	13.74	14.21	15.09
25	17.04	16.41	15.75	15.17	14.67	14.44	14.37	13.82	13.48	14.10	14.15	15.13
EOM	16.93	16.35	15.64	15.09	14.64	14.41	14.29	13.87	13.59	14.33	14.53	15.10
MAX	17.06	16.91	16.33	15.62	15.08	14.62	14.44	14.27	13.87	14.33	14.53	15.14

CAL YR 1992 MAX 17.06  
WTR YR 1993 MAX 17.06

**WELL NUMBER.--283650082313301. ROMP Centralia Deep Well near Weeki Wachee Springs, FL.**

**AQUIFER.**--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

**INSTRUMENTATION.**--Water-stage recorder--60-minute interval.

PERIOD OF RECORD.--December 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 18.38 ft NGVD, Sept. 22, 1988; lowest, 8.95 ft NGVD, June 24, 1992.

[illegible]

MISCELLANEOUS WATER LEVEL MEASUREMENTS  
OCTOBER 1992 TO SEPTEMBER 1993

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HERNANDO COUNTY

STATION NUMBER	STATION NAME	DATE	ELEV- ATION ABOVE NGVD (FEET)
283058082281001	ZIRKELS ESTATES WELL	09-17-93	15.32
283243082365701	ROMP TR 19-2 DEEP WELL NR BAYPORT, FL	05-18-93 09-16-93	5.24 6.52
283313082350101	ROMP TR 19-3 DEEP WELL NEAR WEEKIWACHEE, FL	05-18-93 09-17-93	8.07 8.50
283321082241601	ROMP DP 105 AT BROOKSVILLE, FL	05-18-93 09-17-93	31.34 31.26
283648082275201	COMMUNITY CHURCH WELL	09-16-93	24.17
283924082272301	ROMP DEEP WELL 107 NEAR BROOKSVILLE, FLORIDA	05-18-93 09-16-93	11.11 11.07

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KEY TO SITE LOCATIONS ON FIGURE 15

HIGHLANDS COUNTY

INDEX NUMBER	SITE NUMBER	PAGE NUMBER
1	271226081194301	74
2	271559081242501	74
3	272745081232601	75

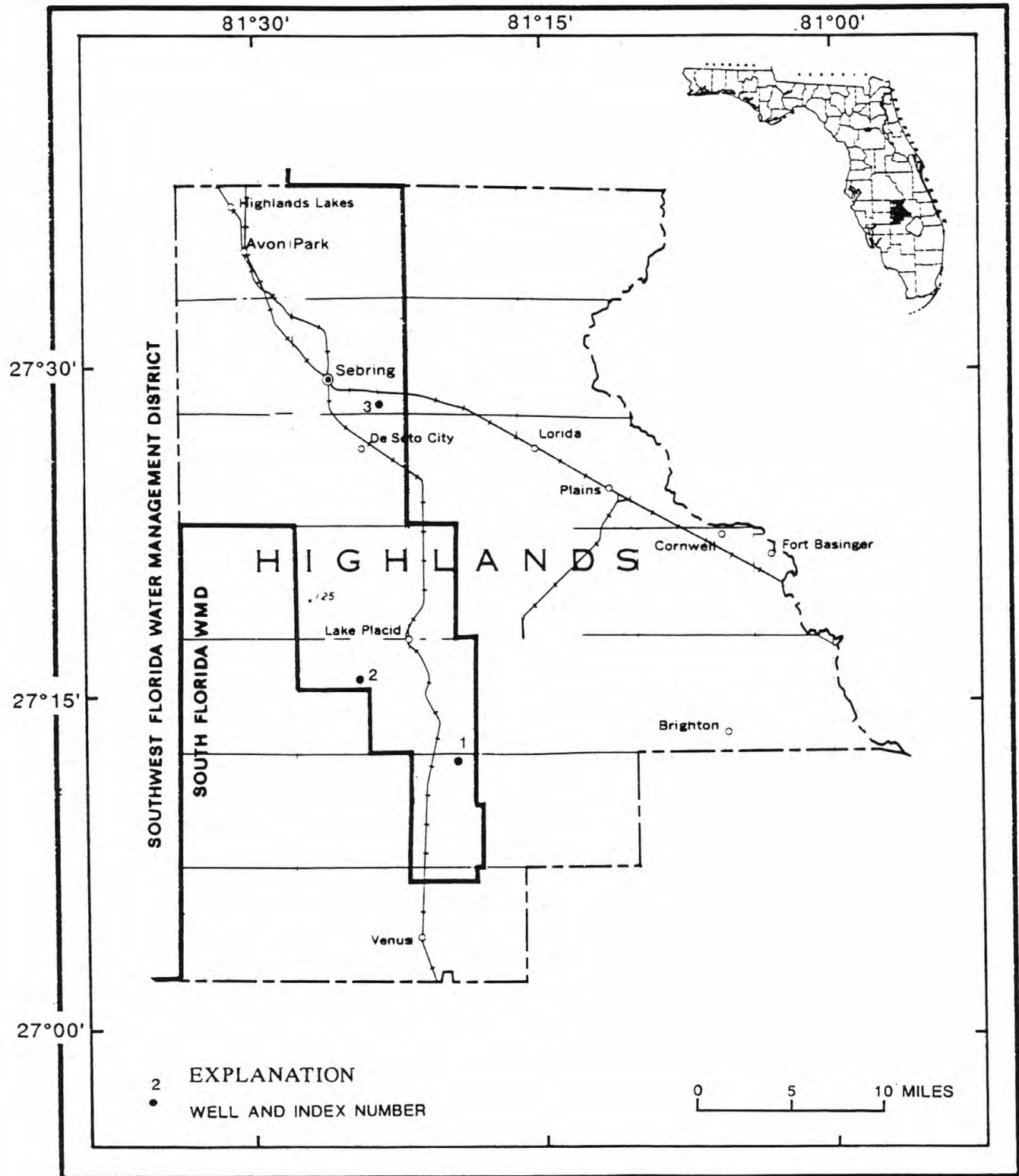


Figure 15.--Location of wells in Highlands County.

## HIGHLANDS COUNTY

**WELL NUMBER.--271226081194301. Bairs Den Well near Lake Placid, FL.**

LOCATION.--Lat 27°12'26", long 81°19'43", in NE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.4, T.38 S., R.30 E., Hydrologic Unit 03090101, 600 ft south of intersection State Highway 70 and U. S. Highway 27, and 6.9 mi south of Lake Placid. Owner: U. S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, nonartesian well, diameter 6 in., depth 35 ft, cased to 28 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 136.01 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.40 ft above land-surface datum.

REMARKS.--The figures of water level as elevation in feet NGVD prior to Oct. 1, 1977, are in error. Revised records are available in files of the Geological Survey.

PERIOD OF RECORD.--September 1948 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey. Prior to October 1979, published as Observation Well H14A near Lake Placid.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 128.49 ft NGVD, Oct. 2, 1979; lowest, 113.93 ft NGVD, May 28-30, 1977.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	126.18	125.40	125.02	124.40	124.42	124.10	124.96	124.36	123.68	123.56	123.64	124.04
10	126.06	125.27	124.91	124.48	124.31	124.05	124.87	124.24	123.61	123.56	123.49	124.27
15	125.95	125.14	124.83	124.48	124.24	124.38	124.74	124.13	123.55	123.61	123.39	124.33
20	125.83	125.02	124.72	124.38	124.17	124.68	124.75	124.02	123.44	123.80	123.33	124.32
25	125.69	125.26	124.62	124.31	124.12	124.93	124.58	123.87	123.35	123.83	123.24	124.26
EOM	125.52	125.22	124.48	124.43	124.13	124.98	124.47	123.74	123.27	123.73	123.87	124.34
MAX	126.27	125.50	125.17	124.51	124.45	124.98	124.98	124.44	123.73	123.83	123.87	124.34

CAL YR 1992 MAX 126.30

WTR YR 1993 MAX 126.27

**WELL NUMBER.--271559081242501. Lake Groves Road Well near Lake Placid, FL.**

LOCATION.--Lat 27°15'59", long 81°24'25", in NW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.15, T.37 S., R.29 E., Hydrologic Unit 03090101, on south side of Lake Groves Road, 0.5 mi west of Jefferson Avenue, and 4.0 mi southwest of Lake Placid. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, nonartesian well, diameter 6 in., depth 23 ft, cased to 13 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 115.56 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 2.30 ft above land-surface datum.

PERIOD OF RECORD.--February 1956 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey. Prior to October 1979, published as Observation Well H440A near Lake Placid.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 115.68 ft NGVD, Sept. 10, 1960; lowest, 106.91 ft NGVD, May 14, 1975.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	112.02	111.22	111.17	110.61	111.01	111.10	---	111.30	110.95	111.27	111.66	112.31
10	111.87	111.10	111.06	110.82	110.85	110.91	---	111.16	110.73	111.08	111.34	112.47
15	111.78	110.98	110.96	110.84	110.72	111.52	---	111.11	110.62	111.35	111.10	112.68
20	111.66	110.88	110.89	110.88	110.63	111.92	---	111.01	110.48	111.39	111.01	112.51
25	111.54	111.54	110.81	110.84	110.76	---	111.70	110.88	110.68	111.27	111.84	112.20
EOM	111.33	111.38	110.69	111.06	111.13	---	111.48	110.93	110.86	111.87	111.91	112.52
MAX	112.05	111.55	111.34	111.06	111.13	---	---	111.44	111.15	111.87	111.91	112.73

## WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

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## HIGHLANDS COUNTY

**WELL NUMBER.--272745081232601. Sebring 412-A NRSD Well near Sebring, Fl.**

LOCATION.--Lat 27°27'45", long 81°23'26", in NW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.2, T.35 S., R.29 E., Hydrologic Unit 03090101, on south side of State Highway 632, 0.9 mi east of State Highway 17, and 4.0 mi southeast of Sebring. Owner: Southwest Florida Water Management District.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, nonartesian well, diameter 6 in., depth 60 ft, cased to 40 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 118.15 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.80 ft above land-surface datum.

PERIOD OF RECORD.--March 1990 to current year. Records of water levels prior to October 1990 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 91.02 ft NGVD, Oct. 3, 4, 1992; lowest, 85.02 ft NGVD, June 12, 1992.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	91.01	90.27	89.43	88.75	88.18	---	---	87.51	87.03	86.64	86.01	86.06
10	90.79	90.19	89.19	88.51	88.11	---	---	87.46	86.98	86.48	85.90	86.34
15	90.76	89.98	89.20	88.48	88.04	---	---	87.41	86.84	86.40	85.84	86.49
20	90.69	89.83	89.11	88.40	87.95	---	---	87.30	86.82	86.34	85.78	86.56
25	90.65	89.81	89.00	88.36	---	---	87.73	87.21	86.70	86.23	85.74	86.58
EOM	90.42	89.72	88.87	88.27	---	---	87.62	87.10	86.68	86.08	85.71	86.58
MAX	91.02	90.38	89.70	88.85	---	---	---	87.52	87.10	86.68	86.07	86.59

MISCELLANEOUS WATER LEVEL MEASUREMENTS  
OCTOBER 1992 TO SEPTEMBER 1993

HIGHLANDS COUNTY

STATION NUMBER	STATION NAME	DATE	ELEV- ATION ABOVE NGVD (FEET)
271223081202601	LK PLACID GVES DP S/O LK PLACID, FL	05-18-93	47.11
		09-15-93	51.91
271559081202301	ROMP 28 FLORIDAN WELL	05-19-93	65.85
		09-15-93	71.33
272652081311501	PRAIRIE OAKS GOLF CLUB WELL NR SEBRING, FL	05-18-93	68.45
		09-15-93	71.64
272835081251701	728125-- 34S29E16 NARANATHA VILLIAGE NR SEABRI	05-19-93	78.11
		09-15-93	86.62
273007081263901	CTY SEBRING DP 24 AT SEBRING	05-19-93	75.87
		09-15-93	85.06
273054081234701	JOHN MC CULLOCH WELL 11 NR SEBRING, FL	05-19-93	75.54
		09-15-93	82.50
273252081264101	BONNET LK DEEP NR SEBRNG	05-19-93	75.96
		09-15-93	84.23
273353081294201	FLOYD DEVANE WELL 18 NR AVON PARK, FL	05-19-93	79.37
		09-15-93	87.66
273615081284901	ROMP 43 FLORIDAN WELL	05-19-93	81.43
		09-15-93	90.07
273704081245501	ROBERT RICHARDS WELL 25 NR AVON PARK, FL	05-19-93	73.69
		09-15-93	73.17
273845081321901	CLENNY DP NW/O AVON PK	05-19-93	75.45
		09-15-93	84.20



**WATER RESOURCES DATA FOR FLORIDA, 1993**  
**Volume 3B: Southwest Florida Ground Water**

KEY TO SITE LOCATIONS ON FIGURE 16

HILLSBOROUGH COUNTY

INDEX NUMBER	SITE NUMBER	PAGE NUMBER
1	274240082212701	80
1	274240082212702	80
1	274240082212703	81
2	274421082275401	81
3	274428082251501	82
3	274428082251502	82
4	275215082201901	83
5	275337082155401	83
6	275402082222701	84
6	275402082222702	84
7	275429082093901	85
8	275627082150801	85
9	275705082222001	86
10	275724082221001	86
11	275802082044701	87
13	280022082210501	87
14	280038082340201	88
15	280053082350202	88
16	280058082202201	89
16	280058082202202	89
17	280105082222801	90
18	280145082132501	90
19	280203082202301	91
20	280209082280301	91
21	280243082203701	92
22	280320082203801	92
22	280320082203802	93
23	280503082143701	93
23	280503082143702	94
24	280548082355701	94
25	280550082202901	95
26	280605082184101	95
27	280639082211001	96
28	280652082195101	96
28	280655082193001	97
28	280655082193002	97
29	280659082175201	98
29	280659082175202	98
30	280740082271001	99
31	280852082135601	99
32	280944082380501	100

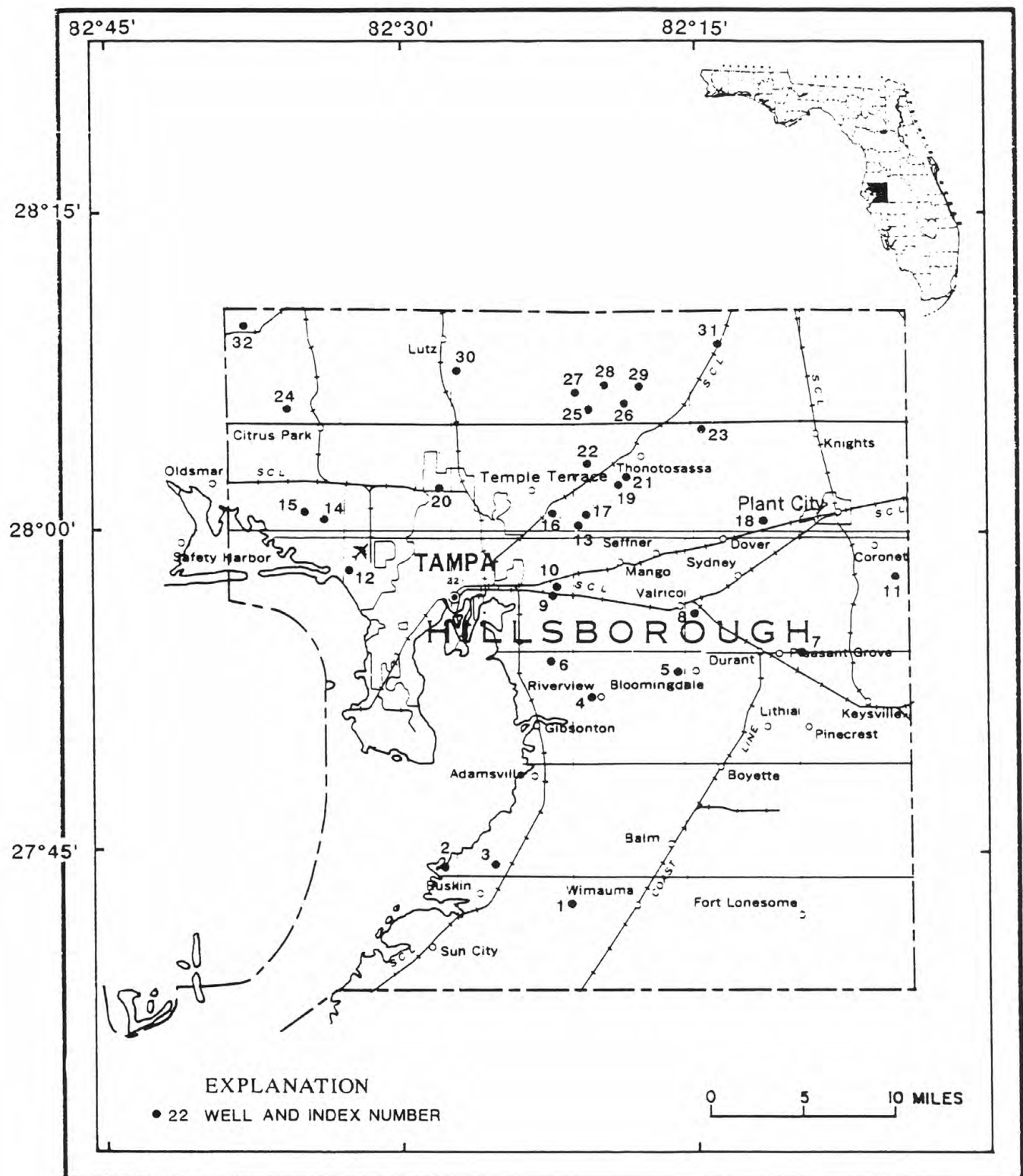


Figure 16.--Location of wells in Hillsborough County.

## HILLSBOROUGH COUNTY

**WELL NUMBER.--274240082212701. ROMP 50 Floridan Well near Wimauma, FL.**

LOCATION.--Lat 27°42'40", long 82°21'27", in NW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.12, T.32 S., R.19 E., Hydrologic Unit 03100203, 0.2 mi south of State Highway 674, and 3.5 mi west of Wimauma. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 to 6 in., depth 562 ft, cased to 200 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 44.00 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 2.44 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby irrigation wells.

PERIOD OF RECORD.--February 1976 to current year. Prior to October 1979, published as ROMP Deep Well No. 50 near Wimauma.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 21.61 ft NGVD, Oct. 1, 1979; lowest, 20.87 ft below NGVD, May 27, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	19.00	7.19	10.59	5.54	13.66	14.58	12.75	4.04	- .53	12.79	12.81	15.41
10	19.89	8.83	10.51	8.75	13.25	11.62	12.71	2.36	-2.77	13.86	10.88	16.85
15	17.50	7.23	10.11	11.30	12.56	9.09	7.98	- .67	1.09	14.74	9.93	17.40
20	14.28	6.93	8.92	13.86	8.98	11.79	10.99	-3.69	4.41	15.34	11.75	15.91
25	10.74	8.88	6.10	13.61	12.07	11.91	6.99	-5.86	7.28	15.27	9.21	15.48
EOM	8.37	9.77	5.29	15.82	13.84	7.27	3.97	- .56	10.39	14.61	14.65	14.50
MAX	19.90	9.98	10.65	16.08	15.77	14.58	12.80	4.04	10.39	15.66	14.65	17.62

CAL YR 1992 MAX 20.10

WTR YR 1993 MAX 19.90

**WELL NUMBER.--274240082212702. ROMP 50 Shallow Well near Wimauma, FL.**

LOCATION.--Lat 27°42'40", long 82°21'27", in NW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.12, T.32 S., R.19 E., Hydrologic Unit 03100203, 0.2 mi south of State Highway 674, and 3.5 mi west of Wimauma. Owner: Southwest Florida Water Management District.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 8 in., depth 37.5 ft, cased to 32.5 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 43.96 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.10 ft above land-surface datum.

PERIOD OF RECORD.--March 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 43.79 ft NGVD, Sept. 22, 23, 1977; lowest, 39.93 ft NGVD, May 27, June 4, 5, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	42.42	41.37	41.35	41.07	41.65	42.06	41.88	41.70	41.22	42.30	41.03	42.12
10	41.94	41.32	41.50	41.88	41.59	41.65	41.58	41.60	40.93	41.94	40.88	41.92
15	41.62	41.31	41.26	42.51	41.55	42.03	41.95	---	41.25	41.61	41.27	42.03
20	41.39	41.27	41.15	41.86	41.46	41.81	41.70	---	41.18	41.56	41.32	41.76
25	41.25	41.31	41.06	42.02	41.85	41.66	41.39	40.82	41.65	41.54	41.11	42.13
EOM	41.17	41.49	41.01	41.88	42.02	41.46	41.19	41.74	41.67	41.20	42.75	41.75
MAX	42.67	41.61	41.50	42.66	42.19	42.35	42.24	---	41.95	42.67	42.75	42.71

CAL YR 1992 MAX 43.26

## HILLSBOROUGH COUNTY

**WELL NUMBER.--274240082212703. ROMP 50 Avon Park Well near Wimauma, FL.**

LOCATION.--Lat 27°42'40", long 82°21'27", in NW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.12, T.32 S., R.19 E., Hydrologic Unit 03100203, 0.2 mi south of State Highway 674, and 3.5 mi west of Wimauma. Owner: Southwest Florida Water Management District.

AQUIFER.--Avon Park formation of Eocene Age, Geologic Unit 124 AVPK.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 1,430 ft, cased to 1,393 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 44.00 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 4.90 ft above land-surface datum.

PERIOD OF RECORD.--August 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 14.95 ft NGVD, Aug. 23, 24, 1982; lowest, 13.05 ft below NGVD, May 26, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.40	8.74	8.64	---	8.91	9.08	8.17	5.30	2.68	5.09	7.11	8.14
10	12.04	8.77	8.60	---	8.73	8.94	8.70	5.08	1.94	5.63	6.42	8.62
15	12.12	8.43	8.44	---	8.64	7.94	7.77	4.08	1.60	6.20	6.18	8.89
20	11.12	8.25	8.14	7.15	7.82	8.02	8.01	3.09	2.73	6.68	-1.68	9.18
25	10.18	8.38	7.27	8.25	7.68	8.38	7.44	1.84	3.46	6.93	4.79	9.00
EOM	9.28	8.49	---	9.15	8.41	7.81	6.34	1.50	4.33	7.12	7.22	9.03
MAX	12.24	9.13	---	---	9.27	9.16	8.70	6.07	4.33	7.12	---	9.20

**WELL NUMBER.--274421082275401. ROMP TR 9-1 Deep Well near Ruskin, FL.**

LOCATION.--Lat 27°44'21", long 82°27'54", in NW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.36, T.31 S., R.18 E., Hydrologic Unit 03100206, at Simmons Park, and 2.2 mi northwest of Ruskin. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 288 ft, cased to 124 ft.

INSTRUMENTATION.--Periodic measurement with static tube by USGS personnel.

DATUM.--Land-surface datum is 4.27 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of 2 in. male adaptor, 2.47 ft above land-surface datum.

PERIOD OF RECORD.--October 1976 to current year (periodic). The figures of water level as elevation, in feet NGVD, prior to Oct. 1, 1979 are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of +0.26 ft. Prior to October 1990, published as ROMP 9-1 Transect Deep Well near Ruskin.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.88 ft NGVD, Oct. 15, 1992; lowest measured, 3.12 ft NGVD, May 20, 1981.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
15...	0945	14.88	18...	0830	9.58
DEC			JUN		
02...	0900	12.69	14...	0915	9.25
JAN			AUG		
14...	0830	12.66	02...	1051	13.09
MAR			SEP		
22...	1215	12.95	14...	1100	14.47

## HILLSBOROUGH COUNTY

**WELL NUMBER.--274428082251501. ROMP TR 9-3 NRSD Well near Ruskin, FL.**

LOCATION.--Lat 27°44'28", long 82°25'15", in NE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.32, T.31 S., R.19 E., Hydrologic Unit 03100206, 80 ft east of U. S. Highway 41, and 1.6 mi northeast of Ruskin. Owner: Southwest Florida Water Management District.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 6 in., depth 25 ft, cased to 20 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 6.57 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 2.89 ft above land-surface datum.

PERIOD OF RECORD.--October 1976 to September 1982 (periodic); October 1982 to September 1983; October 1983 to September 1985 (periodic); October 1985 to current year. The figures of water level as elevation, in feet NGVD, prior to Oct. 1, 1981, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of -1.23 ft. Prior to October 1990, published as ROMP 9-3 Transect Shallow Well near Ruskin.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 6.23 ft NGVD, Sept. 7, 1988; lowest measured, 3.44 ft below NGVD, May 20, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	3.21	3.85	2.73	4.89	5.33	4.99	2.63	1.54	2.84	3.43	3.78
10	---	3.52	3.88	3.75	4.78	4.89	4.79	2.56	1.13	2.68	2.79	4.70
15	---	3.57	3.63	4.53	4.68	4.85	4.52	2.05	1.58	3.72	2.87	4.87
20	---	3.35	3.57	4.79	4.15	4.66	4.73	1.64	1.87	4.07	3.05	4.50
25	4.13	3.36	3.11	4.99	4.51	4.69	3.97	1.00	2.40	4.25	2.68	4.96
EOM	3.54	3.72	2.81	5.19	4.99	4.06	3.25	1.24	2.61	3.86	3.46	4.54
MAX	---	3.72	3.94	5.40	5.17	5.33	5.01	3.06	2.61	4.25	3.88	5.11

**WELL NUMBER.--274428082251502. ROMP TR 9-3 Suwannee Well near Ruskin, FL.**

LOCATION.--Lat 27°44'28", long 82°25'15", in NE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.32, T.31 S., R.19 E., Hydrologic Unit 03100206, 80 ft east of U. S. Highway 41, and 1.6 mi northeast of Ruskin. Owner: Southwest Florida Water Management District.

AQUIFER.--Suwannee limestone of Oligocene Age, Geologic Unit 123 SWNN.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 8 in., depth 514 ft, cased to 289 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 6.57 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of shelter floor, 7.92 ft above land-surface datum.

PERIOD OF RECORD.--October 1985 to current year (periodic). Prior to October 1990, published as ROMP 9-3 Suwannee Well near Ruskin.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.37 ft NGVD, Sept. 3, 1992; lowest measured, 10.49 ft below NGVD, May 17, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
15...	0900	10.39	18...	0900	0.65
DEC			JUN		
02...	0800	7.79	14...	0900	2.04
JAN			AUG		
14...	0800	7.98	02...	1045	8.63
MAR			SEP		
22...	1200	8.66	13...	1426	10.02
APR					
29...	0915	4.55			

## HILLSBOROUGH COUNTY

**WELL NUMBER.--275215082201901. U. S. Phosphoric Well at Riverview, FL.**

LOCATION.--Lat 27°52'15", long 82°20'19", in NE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.18, T.30 S., R.20 E., Hydrologic Unit 03100204, 20 ft south of Riverview Drive, and 0.7 mi west of Riverview. Owner: U. S. Phosphoric.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused industrial, artesian well, diameter 8 in., depth 658 ft, cased to 653 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 23.19 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 12 in. coupling, 0.83 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--September 1962 to current year (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.30 ft NGVD, Sept. 26, 1962; lowest measured, 0.20 ft below NGVD, May 20, 1981.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
14...	1500	12.98	21...	1205	8.14
DEC			JUN		
01...	1500	10.77	16...	1500	7.84
JAN			AUG		
12...	1650	10.67	03...	0830	10.75
MAR			SEP		
26...	1245	11.58	16...	1415	13.08
APR					
27...	1415	10.72			

**WELL NUMBER.--275337082155401. Bloomingdale Road Well near Bloomingdale, FL.**

LOCATION.--Lat 27°53'37", long 82°15'54", in SE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.1, T.30 S., R.20 E., Hydrologic Unit 03100204, on north side of Bloomingdale Road, 1.3 mi east of Bloomingdale, and 6.3 mi northwest of Lithia. Owner: Hillsborough County.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 183 ft, cased to 168 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 53 ft, from topographic map. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--August 1964 to current year (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey. Prior to October 1977, published as Bloomingdale Road Well near Lithia.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.03 ft NGVD, May 18, 1987; lowest measured, 8.52 ft NGVD, May 20, 1981.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
14...	1450	16.31	21...	1255	11.57
DEC			SEP		
01...	1445	14.29	15...	1340	16.93
JAN					
12...	1630	13.30			

## HILLSBOROUGH COUNTY

**WELL NUMBER.--27540208222701. ROMP TR 10-2 Deep Well near Tampa, FL.**

LOCATION.--Lat 27°54'02", long 82°22'27", in NW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.2, T.30 S., R.19 E., Hydrologic Unit 03100206, 69 ft south of State Highway 676A, 1.6 mi east of U. S. Highway 41, and 6.2 mi southeast of Tampa. Owner: Southwest Florida Water Management District.

AQUIFER.--Tampa limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 125 ft, cased to 115 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 13.87 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 6.22 ft above land-surface datum.

PERIOD OF RECORD.--August 1979 to current year. Records of water levels prior to October 1979 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 12.43 ft NGVD, Sept. 7, 8, 1988; lowest, 0.22 ft NGVD, May 23, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.63	9.94	10.05	9.38	10.37	10.68	10.57	9.44	8.48	9.30	9.32	---
10	11.45	9.86	10.18	9.76	10.37	10.31	10.69	9.28	8.23	9.21	8.89	---
15	11.14	9.78	9.95	9.99	10.19	10.26	10.42	9.00	8.28	9.40	9.09	---
20	10.81	9.95	10.03	10.20	9.82	9.95	10.26	8.64	8.38	9.38	9.35	---
25	10.73	10.12	9.62	10.36	9.93	10.34	10.10	8.15	8.82	9.37	9.15	---
EOM	10.19	9.95	9.25	10.45	10.18	10.13	9.65	8.51	9.07	9.48	---	---
MAX	11.68	10.25	10.26	10.45	10.69	10.86	10.69	9.69	9.07	9.49	---	---

**WELL NUMBER.--27540208222702. ROMP TR 10-2 Shallow Well near Tampa, FL.**

LOCATION.--Lat 27°54'02", long 82°22'27", in NW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.2, T.30 S., R.19 E., Hydrologic Unit 03100206, 69 ft south of State Highway 676A, 1.6 mi east of U. S. Highway 41, and 6.2 mi southeast of Tampa. Owner: Southwest Florida Water Management District.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 13.6 ft, cased to 13.6 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 13.87 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 5.82 ft above land-surface datum.

PERIOD OF RECORD.--September 1978 to September 1979 (periodic); October 1979 to current year. Records of water levels prior to October 1978 are available in files of the Geological Survey. The figures of water level as elevation, in feet NGVD, prior to Oct. 1, 1979, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of +0.69 ft.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.06 ft NGVD, Jan. 8, 1979; lowest, 9.49 ft NGVD, June 12, 13, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.79	12.57	12.21	11.59	12.93	13.81	14.40	11.68	10.44	10.27	10.09	11.81
10	13.71	12.28	12.93	12.90	12.82	13.43	13.51	11.36	10.30	10.11	9.81	13.84
15	13.33	12.18	12.18	14.13	13.51	13.80	14.31	11.16	10.54	10.03	10.59	13.93
20	12.39	11.92	11.96	13.28	13.11	13.95	13.27	10.91	10.46	9.93	11.09	12.69
25	11.98	11.74	11.73	14.21	13.26	13.90	12.21	10.69	10.61	9.87	10.74	13.30
EOM	11.76	12.46	11.56	13.53	13.66	14.37	11.82	10.57	10.43	10.10	12.13	12.33
MAX	14.55	13.04	12.93	14.42	14.46	14.57	14.45	11.76	10.62	10.41	12.13	14.38

CAL YR 1992 MAX 14.94  
WTR YR 1993 MAX 14.57

## HILLSBOROUGH COUNTY

**WELL NUMBER.--275429082093901. ROMP 61 Well at Pleasant Grove, FL.**

LOCATION.--Lat 27°54'29", long 82°09'39", in SW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.36, T.29 S., R.21 E., Hydrologic Unit 03100204, 0.6 mi southeast of gage at Edward Medard Reservoir, and 0.6 mi northeast of intersection Turkey Creek Road and Durant Road at Pleasant Grove. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 12 in., depth 1,000 ft, cased to 295 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 71.53 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.89 ft above land-surface datum.

PERIOD OF RECORD.--October 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 54.23 ft NGVD, Apr. 5, 1983; lowest, 19.70 ft NGVD, May 24, 1990.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	43.02	33.73	37.91	36.99	41.28	40.19	41.42	37.50	31.46	35.33	37.93	40.65
10	42.06	35.81	37.98	37.25	40.53	41.30	41.97	37.19	28.21	35.69	36.54	42.23
15	40.82	34.77	38.57	37.72	40.90	40.33	40.46	35.93	27.30	37.28	36.66	43.02
20	39.46	35.74	37.82	39.42	40.34	38.94	41.05	32.62	26.39	36.74	37.74	43.18
25	34.97	35.92	37.23	40.23	41.24	40.31	39.73	30.00	29.31	37.41	36.65	43.75
EOM	34.57	37.81	36.87	40.98	40.43	40.44	38.39	31.44	32.87	39.03	39.22	43.09
MAX	43.04	37.94	38.68	41.33	41.63	41.39	42.00	38.15	32.87	39.03	39.22	43.99
WTR YR 1993	MAX 43.99											

**WELL NUMBER.--275627082150801. Turner Well near Brandon, FL.**

LOCATION.--Lat 27°56'27", long 82°15'08", in SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.19, T.29 S., R.21 E., Hydrologic Unit 03100205, 100 ft east of Valrico Road, 500 ft north of U. S. Highway 60, and 1.5 mi east of Brandon. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused irrigation, artesian well, diameter 8 in., depth 342 ft, cased to 60 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 36.40 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 2.49 ft above land-surface datum.

PERIOD OF RECORD.--January 1963 to August 1978 (periodic); September 1978 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 23.80 ft NGVD, estimated, Sept. 20, 1988; lowest, 10.87 ft NGVD, May 19, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	19.20	17.66	17.44	16.62	17.36	17.30	17.81	16.85	15.40	15.73	---	---
10	19.11	17.69	17.47	16.74	17.20	17.15	17.64	16.59	15.06	15.69	---	---
15	19.03	17.67	17.32	16.93	17.11	16.86	17.56	16.41	14.93	16.00	---	---
20	18.73	17.64	17.17	17.20	16.93	17.20	17.60	16.19	14.61	15.95	---	18.63
25	18.23	17.44	17.01	17.14	17.02	17.35	17.21	15.55	15.11	16.03	---	18.58
EOM	17.85	17.50	16.80	17.45	17.11	17.27	17.05	15.71	15.42	---	---	---
MAX	19.26	17.85	17.48	17.45	17.50	17.38	17.81	16.92	15.71	---	---	---

## HILLSBOROUGH COUNTY

**WELL NUMBER.--275705082222001. ROMP TR 11-2 Well near Tampa, FL.**

LOCATION.--Lat 27°57'05", long 82°22'20", in NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.23, T.29 S., R.19 E., Hydrologic Unit 03100206, 100 ft east of Tampa Bypass Canal, 100 ft south of State Highway 60, at southeastern city limits of Tampa. Owner: Southwest Florida Water Management District.

AQUIFER.--Suwannee limestone of Oligocene Age, Geologic Unit 123 SWNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 315 ft, cased to 300 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 14.22 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of shelter floor, 8.00 ft above land-surface datum.

REMARKS.--Water level affected by tidal fluctuations.

PERIOD OF RECORD.--May 1980 to September 1991; October 1991 to September 1992 (periodic); October 1992 to September 1993.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 17.01 ft NGVD, Sept. 11, 1988; lowest, 9.60 ft NGVD, May 19, 20, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.82	14.68	14.71	14.19	14.63	14.69	14.89	14.19	13.36	13.59	13.63	14.67
10	15.61	14.51	14.80	14.33	14.62	14.59	14.90	14.08	13.09	13.55	13.28	14.90
15	15.48	14.53	14.53	14.47	14.49	14.53	14.76	14.01	12.91	13.67	13.27	15.24
20	15.26	14.66	14.57	14.49	14.41	14.37	14.64	13.76	12.92	13.64	13.43	15.37
25	15.42	14.65	14.58	14.64	14.39	14.59	14.58	13.46	13.24	13.84	13.19	15.23
EOM	14.89	14.56	14.12	14.67	14.56	14.54	14.29	13.78	13.37	13.92	14.26	15.02
MAX	16.00	14.85	14.80	14.67	14.86	15.19	15.03	14.30	13.79	13.92	14.26	15.39

WTR YR 1993 MAX 16.00

**WELL NUMBER.--275724082221001. Structure 160 Well near Tampa, FL.**

LOCATION.--Lat 27°57'24", long 82°22'10", in NE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.14, T.29 S., R.19 E., Hydrologic Unit 03100206, on right bank 50 ft upstream from structure S-160 on Tampa Bypass Canal, at southeastern city limits of Tampa, and 0.4 mi north of State Highway 60. Owner: Southwest Florida Water Management District.

AQUIFER.--Tampa limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, unused industrial, artesian well, diameter 10 in., depth 240 ft, cased to 85 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 14.95 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--April 1971 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 16.69 ft NGVD, Sept. 10, 1988; lowest, 8.37 ft NGVD, May 5, 1971.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.77	14.89	14.75	14.21	14.65	14.68	14.89	14.30	13.49	13.73	13.67	14.77
10	15.60	14.68	14.77	14.42	14.63	14.62	14.84	14.19	13.16	13.61	13.40	14.99
15	15.37	14.70	14.46	14.49	14.48	14.63	14.69	14.16	13.02	13.81	13.47	15.21
20	15.19	14.82	14.61	14.50	14.46	14.39	14.61	13.88	13.12	13.76	13.50	15.35
25	15.38	14.79	14.67	14.62	14.42	14.63	14.64	13.59	13.30	13.98	13.23	15.22
EOM	15.01	14.74	14.04	14.65	14.64	14.46	14.44	13.98	13.47	14.03	14.35	15.03
MAX	16.12	15.04	14.77	14.68	14.86	15.11	14.93	14.42	13.90	14.03	14.35	15.38

CAL YR 1992 MAX 16.12

WTR YR 1993 MAX 16.12

## HILLSBOROUGH COUNTY

**WELL NUMBER.--275802082044701. Fletcher Lett Well near Plant City, FL.**

LOCATION.--Lat 27°58'02", long 82°04'47", in SW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.11, T.29 S., R.22 E., Hydrologic Unit 03100204, 60 ft north of Trapnell Road, 2.6 mi east of State Highway 39, and 3.0 mi south of Plant City. Owner: Fletcher Lett.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, irrigation, artesian well, diameter 8 in., depth 530 ft, cased to 100 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 122.60 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of access hole in pump base, 1.0 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby irrigation wells.

PERIOD OF RECORD.--November 1963 to current year (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey. The figures of water level as elevation, in feet NGVD, prior to Oct. 1, 1979 are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of -1.40 ft.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 81.21 ft NGVD, Nov. 12, 1970; lowest measured, 43.00 ft NGVD, May 13, 1975.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			JUN		
07...	0930	74.20	04...	1201	63.47
JAN			JUL		
13...	1427	70.72	02...	1200	65.51
APR			AUG		
26...	1115	73.70	09...	0740	69.50
MAY			SEP		
21...	1410	64.66	15...	1305	73.84

**WELL NUMBER.--280022082210501. SWFWMD Well west of Vandenberg Airport near Temple Terrace, FL.**

LOCATION.--Lat 28°00'22", long 82°21'05", in NW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.31, T.28 S., R.20 E., Hydrologic Unit 03100206, 0.9 mi northeast of intersection Interstate 4 and U. S. Highway 301, and 3.4 mi southeast of Temple Terrace. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 37 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 17.98 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 1.94 ft above land-surface datum.

PERIOD OF RECORD.--December 1976 to June 1978 (periodic); July 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 17.75 ft NGVD, Sept. 11, 1979; lowest, 12.86 ft NGVD, June 10, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	17.03	16.53	16.36	16.07	16.18	16.25	16.37	16.17	15.37	15.41	15.59	16.04
10	16.90	16.51	16.40	16.07	16.17	16.20	16.30	16.00	14.86	15.44	15.43	16.32
15	16.79	16.45	16.28	16.26	16.17	16.53	16.36	16.03	14.48	15.60	15.30	16.51
20	16.75	16.46	16.25	16.15	16.10	16.19	16.28	15.95	14.54	15.58	15.01	---
25	16.71	16.39	16.19	16.16	16.16	16.24	16.23	15.81	15.11	15.69	14.73	16.60
EOM	16.61	16.39	16.16	16.20	16.19	16.24	16.17	15.71	15.42	15.67	15.89	16.65
MAX	17.25	16.59	16.40	16.30	16.26	16.54	16.38	16.20	15.70	15.69	15.89	---

CAL YR 1992 MAX 17.25

## HILLSBOROUGH COUNTY

**WELL NUMBER.--280038082340201. Channel G BM Deep Well near Tampa, FL.**

LOCATION.--Lat 28°00'38", long 82°34'02", in NE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.35, T.28 S., R.17 E., Hydrologic Unit 03100206, 40 ft south of Channel G, 100 ft west of Webb Road, and 8.6 mi northwest of Tampa. Owner: Unknown.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 120 ft, cased to 115 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 7.80 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of shelter floor, 1.50 ft above land-surface datum.

REMARKS.--Water level affected by tidal fluctuations.

PERIOD OF RECORD.--September 1975 to September 1981; October 1981 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.07 ft NGVD, Sept. 22, 1979; lowest, 4.56 ft NGVD, Apr. 3, 1976.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
14...	1320	7.14	17...	0800	6.21
DEC			JUN		
01...	1240	6.90	15...	1515	6.50
JAN			AUG		
12...	1245	7.00	04...	1035	6.32
APR			SEP		
28...	1849	6.52	13...	0840	7.23

**WELL NUMBER.--280053082350202. Sheldon Road Deep Well near Citrus Park, FL.**

LOCATION.--Lat 28°00'53", long 82°35'02", in NE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.27, T.28 S., R.17 E., Hydrologic Unit 03100206, 25 ft west of State Highway 589, and 5.5 mi south of Citrus Park. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 330 ft, cased to 315 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 9.45 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.24 ft above land-surface datum.

REMARKS.--Water level affected by tidal fluctuations.

PERIOD OF RECORD.--December 1968 to February 1973 (periodic); March 1973 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 10.25 ft NGVD, Sept. 1, 1985; lowest, 5.93 ft NGVD, Mar. 19, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.01	7.38	7.51	7.56	7.90	8.43	8.42	7.21	7.22	7.56	7.29	---
10	8.61	7.16	7.80	7.74	7.81	7.99	8.53	7.11	6.89	7.43	6.99	---
15	8.19	7.05	7.42	7.80	7.85	7.52	8.32	7.09	7.12	7.70	7.56	8.51
20	7.85	7.59	7.52	7.82	7.63	7.57	7.91	7.20	7.11	7.64	7.51	8.53
25	7.66	7.77	7.48	7.92	7.86	---	7.57	6.90	7.36	7.37	7.38	8.32
EOM	7.45	7.37	7.20	7.86	7.73	7.98	7.29	7.45	7.59	7.57	8.10	7.69
MAX	9.43	8.04	8.08	8.10	8.44	---	8.65	7.45	7.59	7.87	8.10	---

## HILLSBOROUGH COUNTY

**WELL NUMBER.--280058082202201. Eureka Springs Deep Well near Temple Terrace, FL.**

LOCATION.--Lat 28°00'58", long 82°20'22", in NE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.30, T.28 S., R.20 E., Hydrologic Unit 03100206, 1.7 mi northwest of Interstate 4 and U. S. Highway 301 interchange, and 2.5 mi southeast of Temple Terrace. Owner: U. S. Geological Survey (corrected).

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 37 ft, cased to 34.5 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 21.40 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.47 ft above land-surface datum.

PERIOD OF RECORD.--June 1976 to September 1990; October 1990 to September 1991 (periodic); October 1991 to current year. Prior to October 1976, published as Eureka Springs Landfill Deep Well near Tampa. Prior to October 1992, published as Eureka Springs Landfill Deep Well near Temple Terrace.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 21.93 ft NGVD, Oct. 10, 1979; lowest, 13.91 ft NGVD, June 10, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	19.85	19.23	18.83	18.28	18.44	18.50	18.83	18.45	17.48	17.05	17.32	---
10	19.95	19.19	18.84	18.26	18.44	18.47	18.76	18.18	17.08	17.09	17.12	---
15	19.83	19.10	18.71	18.39	18.43	18.57	18.79	18.24	16.79	17.33	---	---
20	19.74	19.05	18.66	18.34	18.34	18.50	18.73	18.10	16.51	17.35	---	---
25	19.63	18.94	18.52	18.38	18.37	18.62	18.66	17.83	16.83	17.45	---	---
EOM	19.46	18.93	18.42	18.42	18.42	18.60	18.52	17.78	17.01	17.45	---	---
MAX	20.05	19.40	18.93	18.48	18.50	18.70	18.83	18.50	17.75	17.47	---	---

CAL YR 1992 MAX 20.05

**WELL NUMBER.--280058082202202. Eureka Springs Shallow Well near Temple Terrace, FL.**

LOCATION.--Lat 28°00'58", long 82°20'22", in NE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.30, T.28 S., R.20 E., Hydrologic Unit 03100206, 1.7 mi northwest of intersection Interstate 4 and U. S. Highway 301, and 2.5 mi southeast of Temple Terrace. Owner: U. S. Geological Survey (corrected).

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 10 ft, cased to 4 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 21.19 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.47 ft above land-surface datum.

PERIOD OF RECORD.--June 1976 to current year. Prior to October 1976, published as Eureka Springs Landfill Shallow Well near Tampa. Prior to October 1992, published as Eureka Springs Landfill Shallow Well near Temple Terrace.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 21.37 ft NGVD, Sept. 6, 1988; lowest, 14.94 ft NGVD, June 13, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	20.80	19.28	18.81	---	20.67	20.86	20.87	20.17	17.52	---	---	---
10	20.68	18.58	20.18	20.01	20.67	20.73	20.74	18.45	17.09	---	16.52	---
15	20.27	18.76	---	20.76	20.66	20.81	20.82	18.04	16.86	---	16.05	---
20	18.94	18.39	---	20.52	20.49	20.74	20.59	17.66	16.61	---	15.97	---
25	18.49	18.31	---	20.71	20.75	20.81	---	17.35	16.87	---	15.76	---
EOM	18.21	19.47	---	20.76	20.81	20.81	18.45	18.05	---	---	---	---
MAX	20.85	20.19	---	---	20.89	21.01	---	---	---	---	---	---

## HILLSBOROUGH COUNTY

**WELL NUMBER.--280105082222801. USCE Well TBC-08 near Temple Terrace, FL.**

LOCATION.--Lat 28°01'05", long 82°22'28", in SW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.26, T.28 S., R.19 E., Hydrologic Unit 03100206, 1.5 mi southeast of Temple Terrace, and 1.9 mi northwest of intersection Interstate 4 and U. S. Highway 301. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 100 ft, cased to 43 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 26.00 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.01 ft above land-surface datum.

PERIOD OF RECORD.--August 1975 to April 1976 (periodic); May 1976 to December 1980; January 1981 to September 1982 (periodic); October 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 22.76 ft NGVD, Sept. 5, 1988; lowest, 14.98 ft NGVD, June 29, 1977.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	21.01	22.27	22.54	21.98	22.37	22.41	22.11	22.36	20.92	19.91	20.80	22.06
10	21.25	22.41	22.56	22.00	22.38	22.37	22.22	22.42	20.41	20.39	19.82	22.28
15	22.50	22.42	22.51	22.21	22.37	22.12	22.37	22.43	20.23	20.95	19.17	22.30
20	22.52	22.50	22.44	22.46	22.49	21.91	22.49	21.92	19.56	21.75	19.81	22.34
25	22.51	22.45	22.36	22.44	22.48	21.92	22.41	21.19	19.68	21.87	20.15	22.16
EOM	22.44	22.49	22.18	22.35	22.29	22.20	22.35	21.01	19.65	21.53	22.15	22.57
MAX	22.52	22.51	22.56	22.49	22.51	22.45	22.51	22.48	21.02	21.91	22.25	22.59
CAL YR 1992	MAX 22.56											
WTR YR 1993	MAX 22.59											

**WELL NUMBER.--280145082132501. Tampa Deep Well 15 near Dover, FL.**

LOCATION.--Lat 28°01'50", long 82°13'25", in NE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.20, T.28 S., R.21 E., Hydrologic Unit 03100205, 0.3 mi north of Interstate 4, and 2.5 mi north of Dover. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 16 in., depth 413 ft, cased to 67 ft.

INSTRUMENTATION.--Water-stage recorder--60 minute interval.

DATUM.--Land-surface datum is 69.86 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.91 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby irrigation wells.

PERIOD OF RECORD.--November 1958 to February 1990; October 1991 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 71.91 ft NGVD, Sept. 15, 1959; lowest, 45.59 ft NGVD, Dec. 25, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	58.65	62.52	61.08	63.27	63.23	63.88	61.89	58.27	59.93	60.89	62.81
10	64.13	60.65	62.48	61.66	63.18	63.09	64.00	---	55.71	60.47	59.64	63.61
15	61.99	61.07	62.30	62.37	---	---	---	---	55.23	61.32	59.74	64.40
20	60.63	61.19	61.97	63.00	---	---	---	---	54.28	61.22	60.59	64.44
25	59.74	61.42	61.69	63.06	62.85	62.99	---	58.04	56.71	61.32	60.09	64.28
EOM	58.14	62.41	61.29	63.64	63.13	63.28	62.00	58.76	58.80	61.61	62.41	63.99
MAX	---	62.41	62.60	63.69	---	---	---	---	59.07	61.72	62.41	64.64

**WELL NUMBER.--280203082202301. USCE Well TBC-03 near Temple Terrace, Fl.**

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.61 ft NGVD, Oct. 4, 1979; lowest daily maximum water level, 11.63 ft NGVD, Jan. 23, 1981.

[illegible]

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 24.07 ft NGVD, Sept. 30, 1979; lowest, 12.04 ft NGVD, June 29, 1977.

[illegible]

## HILLSBOROUGH COUNTY

**WELL NUMBER.--280243082203701. USCE Well TBC-01 near Temple Terrace, FL.**

LOCATION.--Lat 28°02'43", long 82°20'37", in NW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.18, T.28 S., R.20 E., Hydrologic Unit 03100206, 2.9 mi east of Temple Terrace, and 3.3 mi north of Intersection Interstate 4 and U. S. Highway 301. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 110 ft, cased to 46 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 43.34 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.0 ft above land-surface datum.

COOPERATION.--Some records, August 1975 to November 1977, were provided by Southwest Florida Water Management District and reviewed by Geological Survey.

PERIOD OF RECORD.--August 1975 to November 1977 (periodic); December 1977 to October 1989; February to September 1990 (periodic); October 1991 to current year. The figures of water level as elevation, in feet NGVD, prior to Oct. 1, 1983, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of -1.66 ft.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 29.67 ft NGVD, Sept. 8, 1988; lowest, 15.56 ft NGVD, Jan. 30, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	25.95	23.49	22.91	22.14	23.70	23.45	24.30	23.35	21.60	20.53	20.48	21.86
10	25.98	23.39	22.84	22.08	23.48	23.67	24.27	23.29	21.18	20.52	20.30	---
15	24.75	23.29	22.73	22.13	23.34	23.88	23.93	22.98	20.85	20.62	20.22	26.09
20	24.20	23.15	22.59	22.37	23.21	24.57	23.69	22.65	20.52	20.58	20.10	26.10
25	23.92	23.04	22.44	22.90	23.10	24.20	23.43	22.28	20.59	20.67	19.98	25.99
EOM	23.69	23.01	22.27	23.88	23.14	23.81	23.12	22.00	20.55	20.63	21.05	25.14
MAX	26.59	23.67	23.00	23.88	23.91	24.59	24.38	23.36	21.95	20.68	21.05	---

CAL YR 1992    MAX 26.59

**WELL NUMBER.--280320082203801. ROMP 67 Avon Park Well near Temple Terrace, FL.**

LOCATION.--Lat 28°03'20", long 82°20'38", in NW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.7, T.28 S., R.20 E., Hydrologic Unit 03100205, 0.1 mi north of Fowler Avenue, and 2.0 mi east of Temple Terrace. Owner: Southwest Florida Water Management District.

AQUIFER.--Avon Park formation of Eocene Age, Geologic Unit 124 AVPK.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 490 ft, cased to 440 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 42.97 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 4.95 ft above land-surface datum.

PERIOD OF RECORD.--September 1979 to current year. Records of water levels prior to October 1979 are available in files of the Geological Survey. Prior to October 1990, published as ROMP 67-1 Avon Park Well near Temple Terrace.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 31.78 ft NGVD, Oct. 2, 1979; lowest, 18.18 ft NGVD, June 10, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	26.26	24.76	24.35	23.64	24.47	24.55	25.10	24.50	22.73	21.83	21.99	23.72
10	26.41	24.73	24.30	23.60	24.31	24.55	25.03	24.36	22.19	22.02	21.75	25.20
15	25.73	24.59	24.16	23.85	24.24	24.68	24.86	24.06	22.00	22.27	21.57	25.52
20	25.40	24.58	23.99	23.72	24.19	25.14	24.71	23.76	21.60	22.38	21.41	25.55
25	25.17	24.39	23.87	23.88	24.17	25.00	24.48	23.35	21.72	22.53	21.16	26.07
EOM	24.90	24.43	23.70	24.50	24.30	24.76	24.24	23.16	21.77	22.41	22.92	---
MAX	26.64	24.87	24.43	24.50	24.56	25.14	25.10	24.57	23.08	22.53	22.92	---

CAL YR 1992    MAX 26.64

**WELL NUMBER.--280320082203802. ROMP 67 Tampa Limestone Well near Temple Terrace, FL.**

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 32.62 ft NGVD, Oct. 4, 1979; lowest, 16.87 ft NGVD, June 13, 1985.

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT 09...	0830	26.24	APR 21...	0905	23.61
DEC 08...	0900	23.26	JUN 10...	0745	21.39
JAN 20...	0830	22.32	AUG 03...	0945	21.06

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 51.12 ft NGVD, Sept. 6, 7, 8, 1985; lowest, 40.74 ft NGVD, June 7, 1985.

[illegible]

## HILLSBOROUGH COUNTY

**WELL NUMBER.--280503082143702. ROMP 68 Suwannee Well near Antioch, FL.**

LOCATION.--Lat 28°05'03", long 82°14'37", in SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.31, T.27 S., R.21 E., Hydrologic Unit 03100205, 2.0 mi north of Antioch, and 9.4 mi southwest of Zephyrhills. Owner: Southwest Florida Water Management District.

AQUIFER.--Suwannee limestone of Oligocene Age, Geologic Unit 123 SWNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 7 in., depth 220 ft, cased to 120 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 56.00 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.43 ft above land-surface datum.

PERIOD OF RECORD.--August 1981 to September 1989; October 1989 to September 1990 (periodic); October 1991 to September 1992; October 1992 to September 1993 (periodic). Prior to October 1990, published as ROMP 68-2 Suwannee Well near Antioch.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 51.58 ft NGVD, Sept. 6, 1985; lowest, 41.46 ft NGVD, June 7, 1985.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
DEC 08...	1015	47.41	JUN 11...	0735	43.52
JAN 20...	0925	47.81	AUG 09...	0800	44.96
APR 21...	0940	48.38	SEP 14...	1630	47.57
MAY 20...	1335	46.46			

**WELL NUMBER.--280548082355701. St. Petersburg Deep Well E-100 near Citrus Park, FL.**

LOCATION.--Lat 28°05'48", long 82°35'55", in NW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.34, T.27 S., R.17 E., Hydrologic Unit 03100206, at Cosme Water Plant, 1.2 mi west of State Highway 587, and 2.0 mi northwest of Citrus Park. Owner: City of St. Petersburg.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 10 in., depth 1,200 ft, cased to 656 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 41.23 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 1.60 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby public supply wells. Well also sampled for water quality.

PERIOD OF RECORD.--April 1972 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

REVISED RECORDS.--WDR FL-75-3: 1975.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 32.14 ft NGVD, Oct. 1, 1979; lowest, 16.27 ft NGVD, Apr. 20, 1972.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	24.48	20.74	22.65	22.24	23.83	25.15	26.29	23.17	23.08	24.12	23.18	24.70
10	24.27	22.71	22.72	22.84	24.13	25.69	25.74	23.01	21.28	23.98	21.36	24.49
15	22.92	22.97	22.34	22.71	24.86	24.25	24.75	22.11	22.90	24.62	22.59	25.34
20	22.32	22.84	22.59	23.09	24.87	27.52	25.80	21.78	22.07	24.28	22.36	25.14
25	22.09	21.27	21.87	23.04	25.22	27.95	24.70	21.18	23.08	24.48	21.54	24.01
EOM	20.28	22.41	22.03	23.43	25.40	26.01	24.47	23.09	23.88	23.76	24.30	23.11
MAX	25.09	23.00	23.54	23.84	25.62	27.99	26.29	24.07	24.20	25.02	24.30	25.49

CAL YR 1992 MAX 25.09

WTR YR 1993 MAX 27.99

## HILLSBOROUGH COUNTY

**WELL NUMBER.--280550082202901. Morris Bridge Deep Well 10 near Branchton, FL.**

LOCATION.--Lat 28°05'50", long 82°20'29", in NW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.31, T.27 S., R.20 E., Hydrologic Unit 03100205, 1.2 mi west of State Highway 579, and 2.5 mi southwest of Branchton. Owner: U. S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 500 ft, cased to 90 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 29.91 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of flange, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--March 1974 to September 1988; October 1988 to current year (periodic). Prior to October 1977, published as Tampa Deep Well 10 near Branchton.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 32.79 ft NGVD, Sept. 9, 1988; lowest, 18.20 ft NGVD, May 31, June 1, 1981.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
16...	1630	28.79	20...	1115	26.78
DEC			JUN		
04...	1630	27.46	03...	1135	23.91
JAN			SEP		
15...	1430	27.01	14...	1400	28.45
MAR					
16...	1415	28.53			

**WELL NUMBER.--280605082184101. Morris Bridge Deep Well 12 near Branchton, FL.**

LOCATION.--Lat 28°06'05", long 82°18'41", in SW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.28, T.27 S., R.20 E., Hydrologic Unit 03100205, 500 ft west of State Highway 579, and 2.9 mi southwest of Branchton. Owner: U. S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 520 ft, cased to 238 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 31.63 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 6 in. flange, 2.16 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby public supply wells. Well also sampled for water quality.

PERIOD OF RECORD.--April 1978 to September 1988; October 1988 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 33.40 ft NGVD, Oct. 2, 1979; lowest, 18.88 ft NGVD, June 14, 1985.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			JUN		
09...	1230	30.84	11...	1050	24.29
DEC			AUG		
11...	1115	27.86	05...	0805	25.61
JAN			SEP		
25...	1000	27.16	14...	1535	28.61
MAY					
20...	1240	26.96			

## WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

## HILLSBOROUGH COUNTY

**WELL NUMBER.--280639082211001. Morris Bridge Deep Well 11 near Branchton, FL.**

LOCATION.--Lat 28°06'39", long 82°21'10", in NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.25, T.27 S., R.19 E., Hydrologic Unit 03100205, 2.0 mi east of State Highway 581, and 4.3 mi southwest of Branchton. Owner: City of Tampa.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 500 ft, cased to 127 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 35.13 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of flange, 3.00 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--March 1974 to current year. Prior to October 1977, published as Tampa Deep Well 11 near Branchton.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 35.47 ft NGVD, Sept. 10, 1988; lowest, 18.36 ft NGVD, June 14, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	33.20	31.20	31.14	30.49	31.74	32.39	33.21	31.86	27.47	25.33	28.39	29.20
10	33.17	31.34	31.14	30.53	31.46	32.40	32.89	31.83	24.51	25.13	27.46	31.44
15	32.20	31.22	30.96	30.83	31.66	32.01	32.22	31.20	27.52	26.54	26.84	32.21
20	32.20	31.14	30.81	27.08	29.13	32.98	32.65	30.72	24.74	---	24.20	32.05
25	31.84	30.94	30.60	27.27	31.04	32.94	32.18	29.98	24.75	28.85	22.60	32.88
EOM	31.31	31.27	30.54	31.64	31.91	32.60	31.78	26.68	25.34	28.87	27.64	32.66
MAX	33.33	31.42	31.29	31.64	31.91	33.09	33.21	31.98	27.53	---	28.81	32.93

**ELL NUMBER.--280652082195101. Morris Bridge Deep Well 3C near Branchton, FL.**

LOCATION.--Lat 28°06'52", long 82°19'51", in SE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.20, T.27 S., R.20 E., Hydrologic Unit 03100205, 1.8 mi west of State Highway 579, and 3.0 mi southwest of Branchton. Owner: City of Tampa.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 1,037 ft, cased to 1,000 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 36.64 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of recorder shelter floor, 3.76 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby public supply wells. Well also sampled for water quality.

PERIOD OF RECORD.--April 1979 to current year. The figures of water level as elevation, in feet NGVD, prior to Oct. 1, 1982 are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of -0.89 ft.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 34.64 ft NGVD, Oct. 1, 1979; lowest, 20.99 ft NGVD, June 9, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	32.84	31.25	31.19	30.52	31.54	31.82	32.65	31.31	28.31	26.90	28.67	29.34
10	32.93	31.35	31.22	30.49	31.28	31.92	32.34	31.31	27.31	26.72	27.63	30.94
15	---	31.24	31.01	30.82	31.36	31.34	31.73	30.75	27.65	27.28	27.38	31.79
20	32.08	31.24	30.86	29.77	30.36	32.31	32.13	30.41	26.58	28.96	26.04	31.74
25	31.83	31.02	30.67	29.59	30.65	32.34	31.77	29.68	26.59	29.22	25.39	32.29
EOM	31.36	31.20	30.59	31.28	31.43	32.13	31.45	28.59	26.74	29.23	27.53	32.11
MAX	---	31.38	31.32	31.28	31.59	32.38	32.65	31.44	28.54	29.35	29.18	32.30

## HILLSBOROUGH COUNTY

**WELL NUMBER.--280655082193001. Morris Bridge Deep Well 3A near Branchton, FL.**

LOCATION.--Lat 28°06'59", long 82°19'43", in NE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.20, T.27 S., R.20 E., Hydrologic Unit 03100205, 1.8 mi west of State Highway 579, and 2.7 mi southwest of Branchton. Owner: City of Tampa.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 14 in., depth 600 ft, cased to 100 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 38.36 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 4.17 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby public supply wells. Record is equivalent to that for Tampa Deep Well 3 (280648082195201), available October 1971 to March 1975.

PERIOD OF RECORD.--March 1975 to January 1976; March 1978 to current year. Prior to March 1978, published as Tampa Deep Well 3A near Branchton.

REVISED RECORDS.--WDR FL-76-3: 1975.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 36.96 ft NGVD, Apr. 2, 3, 1987; lowest, 19.34 ft NGVD, Mar. 19, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	34.76	32.66	32.60	31.97	33.37	---	34.71	33.27	29.11	27.22	---	30.45
10	34.62	32.78	32.64	32.07	32.97	---	34.36	33.03	27.21	26.73	---	33.43
15	33.77	32.65	32.45	32.39	33.14	---	33.86	32.44	29.18	27.08	---	34.02
20	33.63	32.58	32.30	30.98	---	34.46	34.12	31.97	26.96	30.34	---	33.78
25	33.28	32.42	32.13	30.72	---	34.41	33.65	31.29	27.17	30.53	24.90	34.69
EOM	32.83	32.64	31.96	33.37	---	34.06	33.27	29.16	27.01	30.46	29.04	34.32
MAX	34.84	32.83	32.73	33.37	---	---	34.71	33.27	29.22	30.59	---	34.85

CAL YR 1992 MAX 34.84

**WELL NUMBER.--280655082193002. Morris Bridge Shallow Well 3A near Branchton, FL.**

LOCATION.--Lat 28°06'59", long 82°19'43", in SW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.20, T.27 S., R.20 E., Hydrologic Unit 03100205, 1.8 mi west of State Highway 579, and 2.7 mi southwest of Branchton. Owner: U. S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 16 ft, cased to 12 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 37.58 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.70 ft above land-surface datum.

PERIOD OF RECORD.--May 1972 to current year (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey. The figures of water level as elevation, in feet NGVD, prior to Oct. 1, 1977, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of -0.22 ft. Prior to October 1977, published as Tampa Shallow Well 3A near Branchton.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 38.96 ft NGVD, Mar. 10, 1978; well observed dry May 13, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
DEC			JUN		
04...	1600	32.32	03...	1120	32.20
JAN			AUG		
20...	1000	32.44	02...	0945	31.54
MAR					
16...	1300	34.52			

## HILLSBOROUGH COUNTY

**WELL NUMBER.--280659082175201. Morris Bridge Deep Well 13 near Branchton, FL.**

LOCATION.--Lat 28°06'55", long 82°17'52", in NE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.22, T.27 S., R.20 E., Hydrologic Unit 03100205, 0.2 mi southeast of Morris Bridge Road, and 1.4 mi southwest of Branchton. Owner: City of Tampa.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused irrigation, artesian well, diameter 8 in., depth 593 ft, cased to 50 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 37.88 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.05 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby public supply wells. Well also sampled for water quality.

PERIOD OF RECORD.--March 1976 to September 1980; January 1984 to current year. March to September 1976, published as Morris Bridge Road Well near Tampa; October 1976 to September 1977, published as Morris Bridge Road Well near Branchton.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 35.92 ft NGVD, Sept. 10, 1988; lowest, 20.82 ft NGVD, June 14, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	34.40	32.43	32.45	31.91	33.14	33.56	33.93	32.79	28.54	27.33	29.85	30.44
10	34.11	32.55	32.56	32.18	32.97	33.40	33.64	32.44	27.26	26.67	27.45	32.90
15	---	32.40	32.37	32.56	33.09	33.36	33.38	31.92	29.19	28.29	27.16	33.27
20	33.29	32.34	32.22	32.33	30.85	33.76	33.46	31.50	26.91	30.63	26.29	33.13
25	33.01	32.19	32.05	31.80	31.09	33.70	33.07	30.90	26.97	30.67	25.80	33.63
EOM	32.62	32.53	31.97	33.19	33.25	33.45	32.75	30.03	27.05	30.45	29.23	33.37
MAX	---	32.62	32.57	33.19	33.27	33.92	33.93	32.79	29.94	30.67	30.38	33.74

**WELL NUMBER.--280659082175202. Morris Bridge Shallow Well 13 near Branchton, FL.**

LOCATION.--Lat 28°06'55", long 82°17'52", in NE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.22, T.27 S., R.20 E., Hydrologic Unit 03100205, 0.2 mi southeast of Morris Bridge Road, and 1.4 mi southwest of Branchton. Owner: U. S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 1.25 in., depth 8.67 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 37.88 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of PVC adapter, 0.83 ft above land-surface datum.

PERIOD OF RECORD.--January 1984 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 37.55 ft NGVD, Aug. 27, 1991; well observed dry at times some years.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			JUN		
09...	1255	35.71	11...	1035	DRY
DEC			AUG		
11...	1020	34.19	05...	0750	32.25
JAN					
25...	1035	32.70			

**WELL NUMBER.--280740082271001. Debuel Road Deep Well near Lutz, FL.**

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 60.13 ft NGVD, Sept. 27, 1979; lowest, 49.77 ft NGVD, May 31, 1992.

[illegible]

**WELL NUMBER.--280852082135601. Hillsborough State Park Parking Area Deep Well near Zephyrhills, FL.**

**EXTREMES FOR PERIOD OF RECORD.**--Highest daily maximum water level, 46.56 ft NGVD, Sept. 30, 1979; lowest, 35.53 ft NGVD, June 13, 14, 1985.

[illegible]

## WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

## HILLSBOROUGH COUNTY

**WELL NUMBER.--280944082380501. Eldridge-Wilde Deep Well N-4 near Tarpon Springs, FL.**

LOCATION.--Lat 28°09'44", long 82°38'05", in NE  $\frac{1}{4}$ SE  $\frac{1}{4}$  sec.6, T.27 S., R.17 E., Hydrologic Unit 03100207, 3.8 mi northeast of intersection State Highway 582 and East Lake Road, and 6.4 mi east of Tarpon Springs. Owner: Unknown.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 350 ft, cased to 100 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 41.00 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 1.64 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--July 1977 to current year. Records of water levels prior to October 1977 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 31.70 ft NGVD, Oct. 8, 1982; lowest, 14.64 ft NGVD, Feb. 26, 1991.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	24.46	---	---	23.55	22.88	23.80	25.42	---	---	23.19	23.17	20.38
10	25.23	---	24.78	24.12	21.93	24.72	24.79	---	20.55	---	22.83	19.91
15	24.39	25.84	25.45	24.47	21.55	22.05	24.12	23.40	21.83	24.70	21.08	23.36
20	24.67	24.06	24.66	25.03	22.64	25.02	25.65	21.44	21.73	---	18.72	22.43
25	---	24.02	23.51	24.72	24.93	26.23	23.63	18.74	23.60	---	17.14	21.23
EOM	---	24.01	23.86	23.80	23.62	25.00	---	23.25	23.27	---	22.49	22.73
MAX	---	---	---	25.60	25.22	26.44	---	---	---	---	---	24.67

MISCELLANEOUS WATER LEVEL MEASUREMENTS  
OCTOBER 1992 TO SEPTEMBER 1993

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HILLSBOROUGH COUNTY

STATION NUMBER	STATION NAME	DATE	ELEV- ATION ABOVE NGVD (FEET)
273843082321501	4B 38-32-13 PEEK	05-18-93	6.35
		09-16-93	19.31
273903082085601	WELL 739 208 0356	05-19-93	27.67
		09-14-93	32.44
274031082150401	ROMP 123 FLRD WELL NEAR WIMAUMA, FL	10-13-92	24.62
		05-18-93	-2.76
		09-14-93	21.92
274044082205101	SRD WELL ON US 301 NR WIMAUMA	05-18-93	9.08
		09-14-93	20.67
274103082053801	SPIVEY GROVE	05-19-93	27.90
		09-16-93	37.73
274145082114901	STANALAND	05-19-93	14.15
		09-14-93	30.63
274214082084401	FT LONESOME WELL 88 AT FT LONESOME, FL	05-19-93	110.67
		09-16-93	112.65
274218082035701	BARBER WELL 422 NR FT LONESOME. FL	05-18-93	119.21
		09-14-93	117.77
274256082201601	SW HILLS CO 68(SUN CITY CENTER W.7) NR WIMAUMA	05-18-93	7.20
		09-15-93	28.23
274303082280901	SW HILLS CO WELL 71 NR RUSKIN	05-18-93	7.81
		09-16-93	14.44
274312082144201	LANE(SW HILLS CO WELL 72A) NR FT.LONESOME	05-19-93	-1.18
274427082083701	ROMP 48 FLORIDAN WELL NEAR FT. LONESOME, FL.	10-07-92	41.13
		05-18-93	28.62
		09-14-93	38.51
274427082083702	ROMP 48 HAWTHORN WELL NEAR FT. LONESOME, FL.	05-18-93	92.52
		09-15-93	92.47
274546082151403	ROMP 49 AVPK WELL AT BALM, FL	05-18-93	6.50
		09-15-93	28.68
274546082151405	ROMP 49 HTRNN WELL AT BALM, FL	05-18-93	12.34
		09-15-93	33.11
274554082233603	ROMP TR 9-2 SUWANNEE WELL AT APOLLO BEACH, FL	05-18-93	2.75
		09-15-93	11.71
274748082130201	SIMMONS FISH FARM	05-18-93	5.84
		09-15-93	24.13
274813082223601	SW HILLS CO 182 NR ADAMSVILLE	05-19-93	3.75
		09-16-93	11.78
274857082195301	RIVERVIEW NO. 3 NR ADAMSVILLE	05-19-93	4.29
		09-15-93	17.10
274857082195401	RIVERVIEW WELL FIELD WELL 419 NR RIVERVIEW, FL	05-19-93	7.10
		09-15-93	18.08
274925082084301	WCRWSA SCHM-6 UPPER FLORIDAN WELL NR LITHIA, FL	05-17-93	29.29
		09-14-93	39.10

MISCELLANEOUS WATER LEVEL MEASUREMENTS  
OCTOBER 1992 TO SEPTEMBER 1993

HILLSBOROUGH COUNTY

STATION NUMBER	STATION NAME	DATE	ELEV- ATION ABOVE NGVD (FEET)
274925082084302	WCRWSA SCHM-6 INTERMEDIATE WELL NR LITHIA, FL	05-17-93	73.28
		09-14-93	77.31
274925082084303	WCRWSA SCHM-6 NRSD WELL NR LITHIA, FL	05-17-93	89.60
		09-14-93	92.97
274928082225501	SW HILLS CO 220 AT ADAMSVILLE	05-19-93	3.44
		09-13-93	7.54
274941082115701	WCRWSA SCHM-7 FLORIDAN WELL NR LITHIA, FL	05-17-93	16.77
		09-14-93	29.41
274947082145401	749 214 113 CAMP DOROTHY THOMAS NR BOYETTE	05-21-93	8.85
		09-16-93	21.56
275034082134001	WCRWSA SCHM-1 UPPER FLORIDAN WELL NEAR LITHIA, FL	05-17-93	14.55
		09-14-93	25.03
275100082042001	WCRWSA SCHM-5 UPPER FLORIDAN WELL NEAR LITHIA, FL	05-17-93	47.47
		09-14-93	53.79
275100082042002	WCRWSA SCHM-5 INTERMEDIATE WELL NEAR LITHIA, FL	05-17-93	62.90
		09-14-93	65.96
275100082042003	WCRWSA SCHM-5 NRSD WELL NEAR LITHIA, FL	05-17-93	113.04
		09-14-93	117.84
275117082090001	-BLACK & TURNER	05-20-93	23.33
275130082194501	RIVERCREST WELL NR BLOOMINGDALE	09-15-93	29.94
275146082084301	WCRWSA SC-4 UPPER FLORIDAN WELL NEAR LITHIA, FL	05-17-93	22.68
		09-13-93	35.19
275147082083902	WCRWSA SC-4 LOWER INTERMEDIATE WELL NEAR LITHIA, FL	05-17-93	22.14
		09-13-93	34.14
275147082083903	WCRWSA SC-4 UPPER INTERMEDIATE WELL NEAR LITHIA, FL	05-17-93	34.09
		09-13-93	40.62
275147082083905	WCRWSA SC 4-2 NRSD WELL NR LITHIA, FL	05-17-93	45.85
		09-13-93	47.51
275152082035801	EDISON JCT FLRD WELL NR KEYSVILLE, FL	05-17-93	51.15
		09-13-93	56.26
275152082121401	WCRWSA SC-1 FLRD WELL NR LITHIA, FL	05-17-93	16.60
		09-13-93	23.09
275152082121403	WCRWSA SC-1 NRSD WELL NR LITHIA, FL	05-17-93	68.14
		09-13-93	69.66
275158082085101	WCRWSA GRASSY GULCH FLRD WELL NR LITHIA, FL	05-17-93	22.33
		09-13-93	35.78
275158082085102	WCRWSA GRASSY GULCH INTERMEDIATE WELL NR LITHIA, FL	05-17-93	35.03
		09-13-93	37.71
275158082085103	WCRWSA GRASSY GULCH NRSD WELL NR LITHIA, FL	05-17-93	47.30
275210082171001	MCMULLEN CAMPGROUND SO E RIVERVIEW FLA	05-21-93	9.57
275227082310101	ROBINSON HIGH SCHOOL STADIUM D. WELL AT TAMPA, FL	05-17-93	0.83
		09-13-93	1.90

MISCELLANEOUS WATER LEVEL MEASUREMENTS  
OCTOBER 1992 TO SEPTEMBER 1993

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HILLSBOROUGH COUNTY

STATION NUMBER	STATION NAME	DATE	ELEV- ATION ABOVE NGVD (FEET)
275232082052602	WCRWSA SC-15 LOWER INTERMEDIATE WELL NR LITHIA, FL	05-17-93	44.84
		09-13-93	50.32
275232082052603	WCRWSA SC-15 UPPER INTERMEDIATE WELL NR LITHIA, FL	05-17-93	44.92
		09-13-93	50.45
275232082052604	WCRWSA SC 15-1 NRSD WELL NR LITHIA, FL	05-17-93	72.35
		09-13-93	74.65
275235082033601	WCRWSA SCGM-4 FLRD WELL NR LITHIA, FL	05-17-93	50.41
		09-14-93	56.56
275235082033602	WCRWSA SCHM-4 INTERMEDIATE WELL NR LITHIA, FL	05-17-93	74.86
		09-14-93	79.16
275235082033603	WCRWSA SCHM-4 NRSD WELL NR LITHIA, FL	05-17-93	101.54
		09-14-93	103.96
275316082080102	WCRWSA SC-7 LOWER INTERMEDIATE WELL NR LITHIA, FL	05-17-93	29.17
		09-13-93	43.29
275316082080104	WCRWSA SC 7-1 NRSD WELL NR LITHIA, FL	05-17-93	79.51
		09-13-93	80.24
275316082285901	TAMPA YACHT AND RIDING STABLES AT BALLAST POINT	05-17-93	2.06
		09-13-93	3.01
275323082080601	WCRWSA SCHM-11 FLRD WELL NR LITHIA, FL	05-17-93	29.70
		09-14-93	40.91
275336082125401	WCRWSA SCHM-8 FLRD WELL NR LITHIA, FL	05-17-93	11.92
		09-14-93	16.08
275336082125402	WCRWSA SCHM-8 INTERMEDIATE WELL NR LITHIA, FL	05-17-93	11.82
		09-14-93	14.95
275336082125403	WCRWSA SCHM-8 NRSD WELL NR LITHIA, FL	05-17-93	12.87
		09-14-93	14.95
275357082191301	PROVIDENCE BAPT CH NR BRNDN	09-15-93	18.88
275413082114301	LEWIS IRR WELL DURANT RD NR BRANDON	05-21-93	15.25
		09-15-93	22.32
275429082093902	WCRWSA SCHM-9 INTERMEDIATE WELL NR LITHIA, FL	05-17-93	38.93
		09-14-93	44.98
275438082162301	OAKMONT DP NR BRANDON	05-17-93	13.39
		09-13-93	15.69
275452082294101	ACADEMY OF THE HOLY NAMES AT TAMPA, FL	05-17-93	3.72
		09-13-93	4.34
275458082310301	M.MURPHY, 4317 SAN LUIS AT TAMPA, FL	05-17-93	4.79
		09-13-93	5.51
275526082301301	PLANT HIGH SCHOOL STADIUM D.WELL AT TAMPA, FL	05-17-93	10.05
		09-13-93	10.69
275529082143301	BRANDON RIDGELAND	05-20-93	12.93
		09-15-93	15.66
275547082044801	WCRWSA SCHM-3 FLRD WELL NR LITHIA, FL	05-17-93	58.94
		09-14-93	65.51

MISCELLANEOUS WATER LEVEL MEASUREMENTS  
OCTOBER 1992 TO SEPTEMBER 1993

HILLSBOROUGH COUNTY

STATION NUMBER	STATION NAME	DATE	ELEV- ATION ABOVE NGVD (FEET)
275547082044802	WCRWSA SCHM-3 INTERMEDIATE WELL NR LITHIA, FL	05-17-93	64.79
		09-14-93	70.17
275609082191401	HILLSBORO MEM CEM DP NR BRNDN	05-21-93	13.26
		09-15-93	16.03
275613082094401	WCRWSA SCHM-2 FLRD WELL NR LITHIA, FL	05-17-93	46.46
		09-14-93	54.39
275613082094402	WCRWSA SCHM-2 INTERMEDIATE WELL NR LITHIA, FL	05-17-93	62.37
		09-14-93	65.44
275613082094403	WCRWSA SCHM-2 NRSD WELL NR LITHIA, FL	05-17-93	68.33
275630082275201	NCNB NAT'L BANK, 249 SO HYDE PARK AT TAMPA, FL	05-17-93	7.51
		09-13-93	8.33
275631082293801	A.MESSINA, 305 SO.MACDILL AVE. AT TAMPA, FL	05-17-93	10.64
		09-13-93	11.32
275634082305701	CLEVELAND AND HUBERT D WELL AT TAMPA, FL	05-17-93	2.05
		09-13-93	2.24
275653082231101	USCE WELL TBC-15	05-21-93	7.85
		09-15-93	9.23
275747082184001	BRANDON 17	05-21-93	15.94
		09-15-93	17.63
275811082161601	OAK FOREST DP AT BRANDON	05-21-93	17.45
		09-15-93	19.27
275817082325001	ROMP TR 12-1 SWNN WELL NEAR TAMPA, FL.	05-17-93	4.32
		09-13-93	5.62
275843082222201	W.D.FUSSELL 618	05-21-93	15.28
		09-13-93	19.78
275905082292901	THE WOODLANDS APTS, 4714 NO HABANA AT TAMPA, FL	05-17-93	15.35
275928082312801	TIA AIRCRAFT MAINTENANCE AT TAMPA, FL	05-19-93	16.69
		09-13-93	17.95
280012082204901	USCE WELL TBC-05	05-21-93	17.50
		09-13-93	18.44
280042082142301	GRIFFIN 2 D. WELL NR DOVER	05-21-93	46.31
		09-15-93	52.32
280055082222701	USCE TBC-09	05-21-93	20.68
		09-13-93	21.61
280122082360701	PISTOL CLUB FLRD RMP-14 DP NR CITRUS PARK, FL	05-20-93	10.45
		09-16-93	11.52
280129082314701	CITY OF TAMPA D. WELL NR BENJAMIN RD AND WATERS AV	05-21-93	15.46
280148082203801	USCE WELL TBC-04	05-21-93	17.35
		09-13-93	18.15
280253082164001	WELL 802216534001	05-21-93	26.49
		09-14-93	26.37

MISCELLANEOUS WATER LEVEL MEASUREMENTS  
OCTOBER 1992 TO SEPTEMBER 1993

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HILLSBOROUGH COUNTY

STATION NUMBER	STATION NAME	DATE	ELEV- ATION ABOVE NGVD (FEET)
280305082185101	J. W. MORRIS WELL NR TEMPLE TERRACE, FLA	05-21-93	25.76
		09-14-93	26.47
280350082104401	FISHER	05-20-93	79.68
		09-15-93	84.29
280354082335501	WELL 803 233 5455	05-17-93	16.45
		09-14-93	22.73
280354082381901	ROMP TR 13-3 FLR WELL NR CITRUS PARK, FL	05-17-93	14.32
		09-14-93	15.47
280413082061401	MA QUAGLIANI	05-20-93	87.78
		09-15-93	92.82
280420082285501	USGS D. WELL 402 NR LUTZ	05-17-93	35.40
		09-14-93	37.69
280438082075301	MARTIN M GRIFFIN RD	05-20-93	91.95
		09-15-93	96.80
280504082365501	ST PETE DP. E102	05-17-93	17.23
		09-14-93	19.96
280603082385401	ST PETE E-103 DP NR OLDSMAR, FL	05-20-93	16.34
		09-16-93	18.42
280659082294302	BERGER DP WELL NR LUTZ, FL	05-17-93	39.14
		09-14-93	40.88
280659082294303	BERGER S. WELL 2 NR CITRUS PARK, FLA	09-14-93	48.52
280702082302801	HILLS.DP WELL 13 NR CITRUS PARK, FL	05-17-93	32.95
		09-14-93	33.93
280702082302802	HILLSBOROUGH S. WELL 13 NR CITRUS PK, FLA	05-17-93	39.82
		09-14-93	38.50
280703082341701	JAMES DP WELL 11 NR CITRUS PARK, FL	05-17-93	27.92
		09-14-93	30.86
280734082313301	SEC 21 GOODWIN WELL NR LUTZ	05-17-93	32.89
		09-14-93	35.02
280738082282701	BRANT LAKE D. WELL 472 NR LUTZ	05-17-93	48.88
		09-14-93	49.93
280752082182701	MORRIS BRIDGE DP WELL 14 NR BRANCHTON, FL	05-20-93	40.00
		09-14-93	41.92
280833082343601	ST PETE 33A	05-17-93	27.74
		09-14-93	28.72
280901082310401	RMP-01 DP WELL nr CITRUS PARK, FL	05-20-93	39.86
		09-16-93	42.85
280920082322101	LUTZ LK. FERN DP NR LUTZ, FL	05-17-93	37.51
		09-14-93	40.36
280926082162101	MORRIS BRIDGE DP WELL 532 NR BRANCHTON	05-20-93	43.53
		09-14-93	44.84

## QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

## HILLSBOROUGH COUNTY

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
280605082184101 MORRIS BRIDGE DEEP WELL 12 NEAR BRANCHTON, FL. (LAT 28 06 05N LONG 082 18 41W)							
JAN 1993							
25...	1000	588	7.3	--	22.5	42	12
JUN							
11...	1050	589	--	28.0	23.0	43	12
AUG							
05...	0805	587	--	25.5	23.5	41	12
280652082195101 MORRIS BRIDGE WF 3C NR THONOTOSASSA, FL (LAT 28 06 52N LONG 082 19 51W)							
OCT 1992							
19...	1430	2880	--	22.0	17.5	--	60
DEC							
04...	1530	3010	7.5	28.5	23.5	1800	72
JAN 1993							
20...	1000	3020	7.8	19.0	22.5	1800	70
MAR							
16...	1600	3040	--	23.0	22.5	--	75
JUN							
03...	1055	2650	--	25.0	23.5	1800	77
AUG							
02...	0915	2890	--	25.5	23.5	1800	70
280659082175201 MORRIS BR DP 13 (LAT 28 06 55N LONG 082 17 52W)							
JAN 1993							
25...	1030	495	7.4	--	23.0	1.6	8.6
JUN							
11...	1025	494	--	27.5	24.0	1.7	8.9
AUG							
05...	0745	485	--	25.5	24.0	1.7	8.7



**WATER RESOURCES DATA FOR FLORIDA, 1993**  
**Volume 3B: Southwest Florida Ground Water**

KEY TO SITE LOCATIONS ON FIGURE 17

MANATEE COUNTY

INDEX NUMBER	SITE NUMBER	PAGE NUMBER
1	271832082064801	110
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5	272539082292003	113
5	272539082292004	114
5	272539082292005	114
6	272838082142201	115
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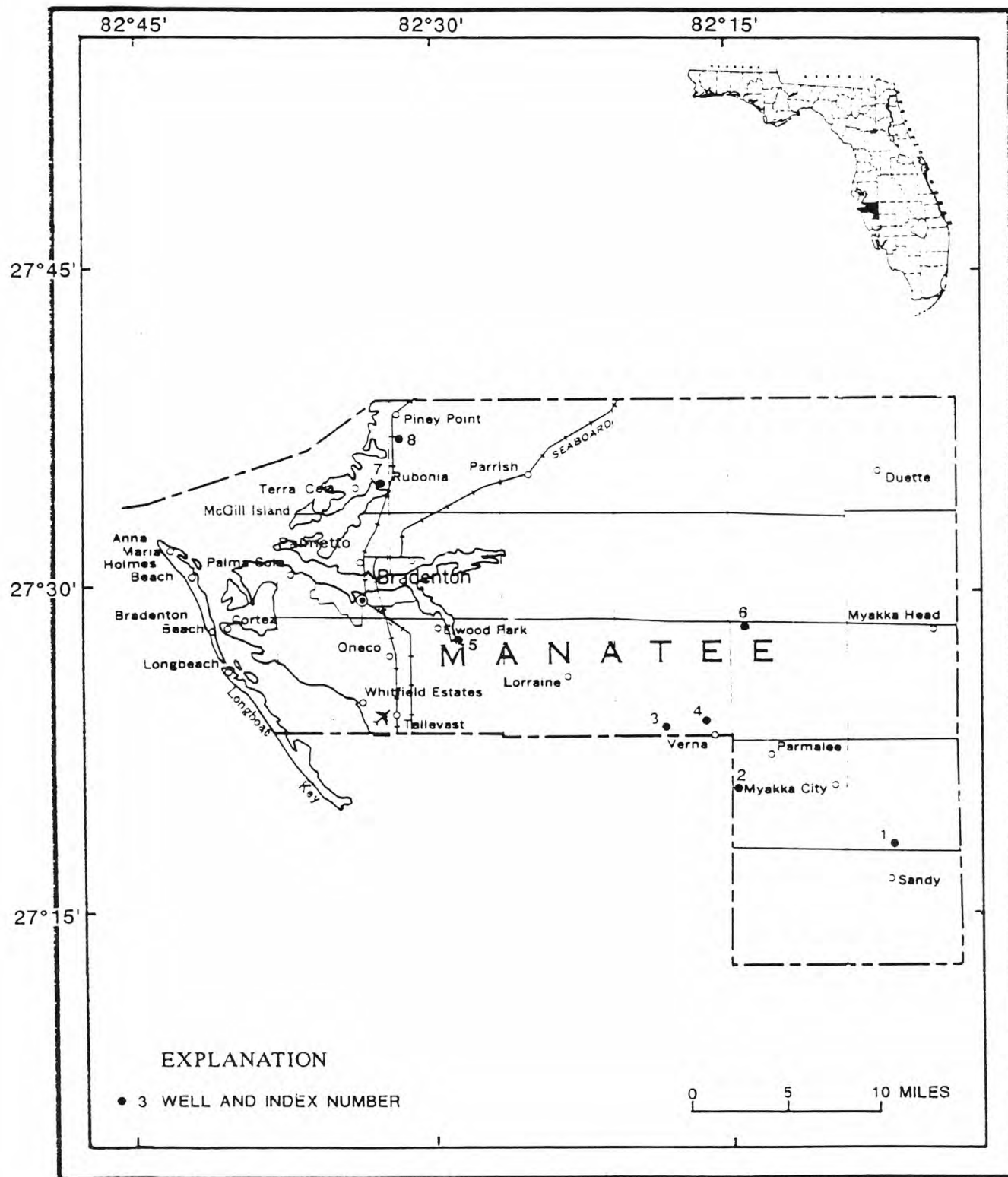


Figure 17.-- Location of wells in Manatee County.

## MANATEE COUNTY

**WELL NUMBER.--271832082064801. Edgeville Deep Well 3 at Edgeville, FL.**

LOCATION.--Lat 27°18'32", long 82°06'48", in NE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.33, T.36 S., R.22 E., Hydrologic Unit 03100102, 0.5 mi southwest of Edgeville, and 4.3 mi east of Myakka City. Owner: U.S. Geological Survey.

AQUIFER.--Limestone aquifer of Oligocene Age, Geologic Unit 123 LMSN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 600 ft, cased to 487 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Elevation of land-surface datum is 70 ft, from topographic map. Measuring point: Top of casing, 2.9 ft above land-surface datum.

PERIOD OF RECORD.--October 1965 to February 1978 (periodic); March 1978 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 46.40 ft NGVD, Oct. 31, 1965; lowest daily maximum water level, 11.39 ft NGVD, May 30, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	37.28	32.70	29.95	27.91	33.33	32.07	32.41	29.27	21.99	29.25	33.45	33.87
10	37.68	31.29	30.49	28.37	33.11	32.00	33.35	28.89	22.30	30.65	---	34.54
15	37.75	29.74	30.51	29.83	33.16	30.49	32.99	27.71	22.62	---	32.68	35.28
20	37.02	28.72	30.43	31.27	31.24	30.52	32.84	25.40	23.86	32.53	32.99	35.84
25	35.72	29.26	29.12	32.34	30.50	31.57	32.13	22.74	25.70	32.39	32.32	35.62
EOM	34.08	29.82	28.57	33.55	30.65	31.79	30.85	21.28	27.61	32.83	33.06	34.70
MAX	---	---	---	33.55	33.76	32.45	33.43	30.51	27.61	---	---	35.84

**WELL NUMBER.--271832082064802. Edgeville Well 4 at Edgeville, FL.**

LOCATION.--Lat 27°18'32", long 82°06'48", in NE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.33, T.36 S., R.22 E., Hydrologic Unit 03100102, 0.5 mi southwest of Edgeville, and 4.3 mi east of Myakka City. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 120 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 70 ft, cased to 65 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 70 ft, from topographic map. Measuring point: Top of casing, 3.2 ft above land-surface datum.

PERIOD OF RECORD.--October 1965 to current year (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 69.93 ft NGVD, Sept. 16, 1971; lowest measured, 63.85 ft NGVD, May 14, 1975.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
08...	1423	68.52	16...	1205	69.72
DEC			JUN		
09...	1245	66.20	17...	1415	65.33
JAN			AUG		
13...	0745	67.02	02...	1615	66.62
MAR					
16...	0920	68.58			

## MANATEE COUNTY

**WELL NUMBER.--272058082143701. Verna T Well 0-2 near Verna, FL.**

LOCATION.--Lat 27°20'58", long 82°14'37", in SW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.18, T.36 S., R.21 E., Hydrologic Unit 03100102, 2.5 mi south of State Highway 70, and 4.0 mi southeast of Verna. Owner: City of Sarasota.

AQUIFER.--Tampa limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 530 ft, cased to 140 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 68.92 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of recorder shelter floor, 3.00 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--March 1978 to current year. Prior to October 1978, published as City of Sarasota Well TH 0-2 near Verna.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 32.59 ft NGVD, Aug. 22, 1982; lowest, 6.73 ft below NGVD, May 26, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	28.59	21.33	20.21	16.95	24.57	22.30	22.57	17.67	10.79	18.87	24.30	24.92
10	29.02	19.85	20.61	18.01	23.75	22.27	23.40	16.99	10.47	20.45	23.59	25.45
15	28.85	---	20.56	19.87	23.74	19.80	22.30	14.80	9.44	22.23	23.21	26.38
20	26.96	18.12	20.39	21.59	21.80	20.94	22.63	11.00	11.81	22.70	23.22	26.98
25	25.03	19.41	18.33	23.23	20.51	21.85	21.22	9.52	14.81	23.23	22.10	25.36
EOM	22.20	20.06	17.83	24.69	21.52	21.48	19.66	9.85	16.83	24.30	23.42	21.64
MAX	29.49	---	20.82	24.69	25.10	22.91	23.49	---	16.83	24.30	24.66	26.99

**WELL NUMBER.--272356082181302. Verna Deep Well 1A near Verna, FL.**

LOCATION.--Lat 27°23'56", long 82°18'13", in NW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.34, T.35 S., R.20 E., Hydrologic Unit 03100201, 60 ft north of State Highway 70, and 2.2 mi northwest of Verna. Owner: U.S. Geological Survey.

AQUIFER.--Suwannee limestone of Oligocene Age, Geologic Unit 123 SWNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 to 4 in., depth 480 ft, cased to 412 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 81.94 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.10 ft above land-surface datum.

REMARKS.--Water level affected by seasonal pumping of nearby irrigation and public supply wells.

PERIOD OF RECORD.--March 1970 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

REVISED RECORDS.--WDR FL-76-3: 1975.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 48.39 ft NGVD, Apr. 3, 1970; lowest, 20.84 ft NGVD, May 28, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	42.88	39.55	39.34	37.25	41.29	40.59	40.15	36.71	32.57	38.26	40.98	41.12
10	43.10	38.80	39.54	37.69	41.21	40.37	40.66	36.08	32.54	39.07	40.87	41.34
15	43.12	38.38	39.42	39.04	40.92	39.56	40.21	35.23	32.87	39.80	40.74	41.69
20	42.52	38.28	39.27	39.69	40.24	39.50	40.20	33.71	34.39	40.24	40.97	41.87
25	41.59	38.64	38.65	40.50	39.78	39.78	39.44	32.07	36.05	40.05	40.74	41.82
EOM	40.43	38.97	37.89	41.22	40.06	39.72	38.21	31.60	37.22	40.58	41.03	41.16
MAX	43.22	40.13	39.55	41.22	41.38	40.59	40.67	37.99	37.22	40.58	41.09	41.97

WTR YR 1993 MAX 43.22

## MANATEE COUNTY

**WELL NUMBER.--272404082161701. Verna T Well 0-1 near Verna, FL.**

LOCATION.--Lat 27°04'04", long 82°16'17", in SE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.26, T.35 S., R.20 E., Hydrologic Unit 03100201, 1.0 mi north of State Highway 70, and 1.2 mi northwest of Verna. Owner: City of Sarasota.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 480 ft, cased to 140 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 98.92 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of flange, 3.00 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--March 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 33.32 ft NGVD, Jan. 24, 1984; lowest, 11.24 ft below NGVD, May 27, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	28.85	20.22	20.13	15.84	24.11	22.70	---	15.11	8.18	19.95	---	---
10	29.73	18.78	19.47	17.32	22.94	21.40	23.46	14.35	8.01	21.61	---	25.51
15	29.04	17.79	20.04	20.21	23.30	19.86	20.52	12.33	9.69	23.14	---	---
20	26.78	17.53	19.08	21.93	20.24	20.98	22.14	8.56	12.83	23.91	---	26.61
25	23.80	18.11	17.89	23.53	20.65	21.47	18.84	5.57	15.50	23.41	22.36	24.56
EOM	21.19	19.58	16.02	25.18	21.75	---	16.77	---	17.87	24.69	---	23.22
MAX	29.82	21.01	20.54	25.18	25.42	---	---	---	---	---	---	---

**WELL NUMBER.--272539082292001. ROMP TR 7-4 Avon Park Well near Bradenton, FL.**

LOCATION.--Lat 27°25'39", long 82°29'20", in SW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.22, T.35 S., R.18 E., Hydrologic Unit 03100202, on southwest shore of Ward Lake Reservoir, 2.0 mi west of Interstate I-75, 1.25 mi south of State Highway 70, and 5.0 mi southeast of Bradenton. Owner: Southwest Florida Water Management District.

AQUIFER.--Upper Floridan aquifer of Eocene Age, Geologic Unit 120 UFAQ.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 1,250 ft, cased to 1,162 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 17.00 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of 6 in. coupling, 2.20 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby irrigation wells.

PERIOD OF RECORD.--November 1989 to September 1991; October 1991 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.01 ft NGVD, Oct. 8, 1992; lowest daily maximum water level, 1.17 ft below NGVD, May 5, 1990.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			JUN		
08...	0907	20.01	15...	0815	6.88
DEC			AUG		
09...	0830	14.80	04...	0905	17.12
JAN			SEP		
12...	1030	13.80	15...	1655	19.13
MAR			27...	1215	18.93
15...	1340	14.67			

## MANATEE COUNTY

**WELL NUMBER.--272539082292002. ROMP TR 7-4 Suwannee Well near Bradenton, FL.**

LOCATION.--Lat 27°25'39", long 82°29'20", in SW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.22, T.35 S., R.18 E., Hydrologic Unit 03100202, on southwest shore of Ward Lake Reservoir, 2.0 mi west of Interstate I-75, 1.25 mi south of State Highway 70, and 5.0 mi southeast of Bradenton. Owner: Southwest Florida Water Management District.

AQUIFER.--Upper Floridan aquifer of Oligocene Age, Geologic Unit 120 UFAQ.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 800 ft, cased to 560 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 17.00 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of recorder shelter floor, 7.40 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby irrigation wells.

PERIOD OF RECORD.--November 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 20.79 ft NGVD, Oct. 12, 1992; lowest, 1.01 ft below NGVD, May 5, 6, 1990.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	20.43	14.53	15.18	12.37	19.02	18.05	16.52	10.76	8.67	---	---	18.56
10	20.69	14.15	15.71	13.74	18.71	17.33	17.32	10.25	7.62	---	---	18.93
15	20.38	13.48	15.90	15.79	18.44	15.99	16.11	8.96	7.46	---	16.94	19.70
20	19.53	13.62	15.14	17.09	16.80	16.11	16.04	7.35	9.94	---	17.15	20.00
25	17.80	13.75	13.74	17.99	16.30	16.74	14.78	5.27	---	---	16.52	19.70
EOM	15.95	14.36	13.23	18.99	17.21	15.73	13.01	6.68	---	---	17.95	18.89
MAX	20.79	15.78	15.90	18.99	19.16	18.05	17.32	12.42	---	---	---	20.03

CAL YR 1992 MAX 20.79

**WELL NUMBER.--272539082292003. ROMP TR 7-4 Tampa Well near Bradenton, FL.**

LOCATION.--Lat 27°25'39", long 82°29'20", in SW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.22, T.35 S., R.18 E., Hydrologic Unit 03100202, on southwest shore of Ward Lake Reservoir, 2.0 mi west of Interstate I-75, 1.25 mi south of State Highway 70, and 5.0 mi southeast of Bradenton. Owner: Southwest Florida Water Management District.

AQUIFER.--Upper Floridan aquifer of Miocene Age, Geological Unit 120 UFAQ.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 500 ft, cased to 380 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 17.00 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of recorder shelter floor, 6.93 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby irrigation wells.

PERIOD OF RECORD.--November 1989 to September 1991; October 1991 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.48 ft NGVD, Oct. 8, 1992; lowest, 0.78 ft below NGVD, May 5, 1990.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV - ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV - ATION ABOVE NGVD (FEET)
OCT			JUN		
08...	0934	20.48	15...	0835	7.21
DEC			AUG		
09...	0900	15.35	04...	0915	17.72
JAN			SEP		
12...	1045	14.35	27...	1205	19.15
MAR					
15...	1305	15.39			

## MANATEE COUNTY

**WELL NUMBER.--272539082292004. ROMP TR 7-4 Hawthorn Well near Bradenton, FL.**

LOCATION.--Lat 27°25'39", long 82°29'20", in SW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.22, T.35 S., R.18 E., Hydrologic Unit 03100202, on southwest shore of Ward Lake Reservoir, 2.0 mi west of Interstate I-75, 1.25 mi south of State Highway 70, and 5.0 mi southeast of Bradenton. Owner: Southwest Florida Water Management District.

AQUIFER.--Intermediate aquifer of Miocene Age, Geologic Unit 121 IAQS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 268 ft, cased to 213 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 17.01 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of recorder shelter floor, 8.03 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby irrigation wells.

PERIOD OF RECORD.--November 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 17.80 ft NGVD, Sept. 3, 1991; lowest, 0.82 ft NGVD, May 26, 1990.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	17.14	15.45	13.72	12.68	15.42	15.59	14.96	12.82	7.69	---	13.23	---
10	17.26	14.77	13.89	12.69	15.64	15.58	15.06	11.94	7.34	---	---	---
15	17.34	14.21	13.91	13.41	15.76	15.37	15.05	11.22	6.87	---	---	---
20	17.23	13.88	13.86	13.76	15.66	15.13	14.79	10.23	7.06	11.70	---	---
25	16.86	13.70	13.47	14.41	15.27	15.15	14.47	8.83	---	---	---	---
EOM	16.13	13.56	13.11	14.99	15.34	15.03	13.80	7.66	---	---	---	16.10
MAX	17.36	16.00	13.94	14.99	15.80	15.90	15.11	13.64	---	---	---	---

**WELL NUMBER.--272539082292005. ROMP TR 7-4 NRSD Well near Bradenton, FL.**

LOCATION.--Lat 27°25'39", long 82°29'20", in SW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.22, T.35 S., R.18 E., Hydrologic Unit 03100202, on southwest shore of Ward Lake Reservoir, 2.0 mi west of Interstate I-75, 1.25 mi south of State Highway 70, and 5.0 mi southeast of Bradenton. Owner: Southwest Florida Water Management District.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 21.3 ft, cased to 15 ft.

INSTRUMENTATION.--Water-stage recorder--60 minute interval.

DATUM.--Land-surface datum is 16.88 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of recorder shelter floor, 3.07 ft above land-surface datum.

REMARKS.--Water levels for the period September 15-30 were deleted, due to the effect of a nearby flowing well.

PERIOD OF RECORD.--March to September 1993.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.21 ft NGVD, Apr. 5, 1993; lowest, 5.76 ft NGVD, June 22, July 26, 1993.

ELEVATION, IN FEET NGVD, PERIOD MARCH TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	7.21	6.63	6.06	5.84	6.05	6.93
10	---	---	---	---	---	---	7.15	6.52	5.94	5.82	6.05	6.91
15	---	---	---	---	---	7.04	7.10	6.40	5.83	5.90	6.07	6.83
20	---	---	---	---	---	7.06	7.01	6.27	5.78	5.81	6.00	---
25	---	---	---	---	---	6.97	6.87	6.13	5.85	5.80	5.90	---
EOM	---	---	---	---	---	6.84	6.77	6.13	5.84	6.12	6.54	---
MAX	---	---	---	---	---	---	7.21	6.74	6.18	6.12	6.54	---

## MANATEE COUNTY

**WELL NUMBER.--272838082142201. Kibler Deep Well 26B near Bethany, FL.**

LOCATION.--Lat 27°28'38", long 82°14'22", in SE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.31, T.34 S., R.21 E., Hydrologic Unit 03100102, 0.2 mi north of State Highway 64, and 1.6 mi east of Bethany. Owner: Kibler Ranch Inc.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused irrigation, artesian well, diameter 8 in., depth 1,123 ft, cased to 208 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Elevation of land-surface datum is 101 ft, from topographic map. Measuring point: Top of recorder shelter floor, 3.0 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby irrigation wells.

PERIOD OF RECORD.--June 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 29.30 ft NGVD, estimated, Aug. 20, 1978; lowest, 24.47 ft below NGVD, May 26, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	22.82	10.47	12.02	6.22	16.49	15.07	15.35	5.70	-2.64	13.13	18.19	19.03
10	23.86	8.72	10.82	8.89	15.19	13.03	16.55	4.30	-2.81	15.17	16.34	19.62
15	22.51	8.79	11.81	12.61	15.15	9.56	11.75	1.07	.34	16.74	15.58	20.81
20	19.02	8.42	10.05	15.26	10.12	12.87	13.71	-2.91	4.25	17.99	16.16	20.91
25	15.32	9.63	8.67	16.89	12.38	14.01	9.23	-7.50	7.63	16.99	13.84	17.58
EOM	11.65	11.21	5.69	18.99	14.20	11.87	6.07	-3.06	10.41	18.19	17.20	14.98
MAX	23.98	11.86	12.49	18.99	19.20	15.29	16.55	5.79	10.41	18.19	18.61	21.49

WTR YR 1993 MAX 23.98

**WELL NUMBER.--273458082324702. ROMP TR 8-1 Hawthorn Well at Rubonia, FL.**

LOCATION.--Lat 27°34'58", long 82°32'47", in NW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.30, T.33 S., R.18 E., Hydrologic Unit 03100206, 0.4 mi east of Bayshore Road, and 0.5 mi northeast of Rubonia. Owner: Southwest Florida Water Management District.

AQUIFER.--Intermediate aquifer system of Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 321 ft, cased to 236 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 15.20 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of shelter floor, 3.11 ft above land-surface datum.

PERIOD OF RECORD.--October 1987 to April 1990; December 1990 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 19.08 ft NGVD, Sept. 9, 15, 1988; lowest, 2.58 ft NGVD, May 28, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
05...	1145	15.25	19...	1020	14.73
DEC			JUN		
08...	1010	14.00	14...	1415	11.07
JAN			16...	1230	11.25
12...	0950	13.63	21...	1015	11.62
MAR			AUG		
15...	1005	14.81	02...	1005	13.11

## MANATEE COUNTY

**WELL NUMBER.--273458082324703. ROMP TR 8-1 Upper Avon Park Well at Rubonia, FL.**

LOCATION.--Lat 27°34'58", long 82°32'47", in NW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.30, T.33 S., R.18 E., Hydrologic Unit 03100206, 0.35 mi east of Bayshore Road, and 0.5 mi northeast of Rubonia. Owner: Southwest Florida Water Management District.

AQUIFER.--Avon Park formation of Eocene Age, Geologic Unit 124 AVPK.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 940 ft, cased to 900 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 15.20 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of adaptor, 5.80 ft above land-surface datum.

PERIOD OF RECORD.--December 1990 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.48 ft NGVD, Oct. 5, 1992; lowest measured, 9.82 ft NGVD, Jan. 15, 1992.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
05...	1155	19.48	19...	1030	17.05
DEC			JUN		
08...	1025	16.52	14...	1420	11.49
JAN			AUG		
12...	1000	16.21	02...	0955	16.51
MAR					
15...	1010	16.77			

**WELL NUMBER.--273718082315501. Florida Power and Light Well at Piney Point, FL.**

LOCATION.--Lat 27°37'18", long 82°31'55", in NE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.7, T.33 S., R.18 E., Hydrologic Unit 03100206, 0.4 mi east of U. S. Highway 41, and 0.8 mi southeast of Piney Point. Owner: J.H. Willis.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused private, artesian well, diameter 12 in., depth 950 ft, cased to 104 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Elevation of land-surface datum is 11 ft, from topographic map. Measuring point: Top of recorder shelter floor, 10.15 ft above land-surface datum.

PERIOD OF RECORD.--May 1978 to current year. Prior to October 1979, published as (273718082315401) Willis Well at Piney Point.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 19.49 ft NGVD, Aug. 14, 1978; lowest, 4.84 ft below NGVD, May 26, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	19.08	12.39	14.88	---	---	17.61	---	9.67	9.08	15.11	15.06	16.83
10	18.61	---	15.12	---	---	17.03	---	9.85	6.51	15.40	13.38	---
15	17.86	---	15.25	16.01	---	15.80	---	8.23	9.44	16.37	---	18.33
20	17.48	---	---	16.77	---	16.06	15.20	6.53	11.60	16.57	15.11	18.63
25	15.16	---	---	17.02	---	---	13.60	4.90	12.84	15.83	14.42	18.19
EOM	13.10	---	---	---	---	---	11.33	7.84	13.84	14.88	16.58	17.17
MAX	19.22	---	---	---	---	---	---	10.94	13.84	16.67	---	---

MISCELLANEOUS WATER LEVEL MEASUREMENTS  
OCTOBER 1992 TO SEPTEMBER 1993

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MANATEE COUNTY

STATION NUMBER	STATION NAME	DATE	ELEV- ATION ABOVE NGVD (FEET)
271228082072101	AMAX WELL 813 NR MYAKKA CITY, FL	05-18-93	34.27
		09-14-93	37.81
271906082112401	ROMP 23 DP NR MYAKKA CITY	05-18-93	22.65
		09-14-93	29.38
271906082112402	ROMP 23-2 (NORTH WELL) 48B NR MYAKKA CITY, FL	05-18-93	20.51
		09-14-93	30.82
272051082094601	MYAKKA CITY COMM. CNTR WELL NEAR MYAKKA CITY, FL	05-18-93	28.59
		09-14-93	32.87
272301082145901	CLOVERDALE FARM D. WELL NR VERNA, FL	05-18-93	5.54
		09-17-93	20.55
272324082383101	SEA CLUB BEACH RESORT WELL AT LONGBOAT KEY	05-18-93	12.33
		09-15-93	14.58
272412082303601	LOCKWOOD RD (BARTH) D. WELL NR BRADENTON	05-17-93	10.23
		09-15-93	16.60
272423082051901	PARKS D. WELL NR MYAKKA HEAD, FL	05-20-93	11.74
		09-14-93	29.80
272510082345701	ROMP TR 7-1 DEEP WELL NR BRADENTON, FL	05-17-93	17.59
		09-15-93	22.03
272735082083401	USGS D. WELL NR MYAKKA HEAD, FL	05-20-93	9.89
		09-14-93	29.72
272814082034802	ROMP 32 SUWANNEE WELL NR MYAKKA HEAD, FL	10-09-92	38.04
		05-20-93	20.75
		09-14-93	33.55
272823082311701	BRADENTON STONE WELL NEAR BRADENTON, FL.	05-18-93	6.46
		09-17-93	19.26
272905082264301	SR 64 D. WELL NR BRADENTON	05-18-93	2.15
		09-17-93	19.09
272911082091201	BEKER SECT 31 WELL (23B)	05-18-93	6.34
		09-14-93	26.49
272949082404001	PERICO ISLAND WELL NR ANNA MARIA ISLAND	05-17-93	13.45
		09-15-93	15.40
273039082175301	RUTLAND-OAK KNOLL WELL	05-18-93	-3.50
		09-16-93	20.99
273159082373101	SNEADS ISLAND NR PALMETTO, FL	05-17-93	16.95
		09-15-93	20.75
273253082072801	ESTECH HAWTHORN 44 NR DUETTE, FL	05-20-93	104.75
		09-16-93	104.67
273255082072601	SWIFT-AVON PARK ON DUETTE RD NR DUETTE	05-20-93	27.91
		09-16-93	37.07
273259082221401	KOEHLER WELL ON RYR RD NR PARRISH	05-18-93	-1.98
		09-17-93	20.00
273354082352401	GEORGE STEVENS WELL 27A NR TERRA CEIA, FL	05-17-93	8.56
		09-15-93	12.00

MISCELLANEOUS WATER LEVEL MEASUREMENTS  
OCTOBER 1992 TO SEPTEMBER 1993

## MANATEE COUNTY

STATION NUMBER	STATION NAME	DATE	ELEV- ATION ABOVE NGVD (FEET)
273459082253201	PARRISH D. WELL AT PARRISH	05-18-93	-1.94
273506082253701	ELLEN MATHESON WELL AT PARRISH, FL	05-18-93	5.43
		09-16-93	20.22
273536082260301	GRIFFIN D. WELL AT PARRISH	05-18-93	0.00
		09-16-93	19.65
273605082071101	BUSBY D. WELL ON DUETTE RD AT DUETTE	05-20-93	28.61
		09-16-93	40.38
273629082090701	AVON PARK NORTH TEST HOLE-SWIFT	05-18-93	22.30
273729082091401	MOODY WELL 801 NR DUETTE, FL	05-20-93	97.78
		09-16-93	95.90
273750082250501	BUCKEYE RD IRR WELL NR PARRISH	05-18-93	-2.64
		09-16-93	17.35

# QUALITY OF GROUND WATER

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## WATER QUALITY DATA, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

### MANATEE COUNTY

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
272333082313801 SH INT. AQUIFER SALTWATER MON W. NR BRADENTON, F(LAT 27 23 33N LONG 082 31 38W)						
OCT 1992						
21...	1020	1620	23.0	84	310	959
NOV						
23...	1325	1670	23.5	88	330	1000
DEC						
28...	1155	1630	23.5	80	320	983
JAN 1993						
28...	1335	1590	23.0	90	320	976
FEB						
24...	1430	1550	23.0	69	290	913
APR						
07...	1500	1550	23.0	82	300	929
30...	1545	1610	23.0	76	290	942
MAY						
26...	1210	1550	23.0	80	280	960
JUN						
24...	0830	1600	23.0	76	310	988
JUL						
26...	1340	1650	23.5	80	330	988
AUG						
30...	1030	1550	23.5	75	310	904
SEP						
27...	1050	1530	24.0	76	150	932
272344082314201 DP UP FLRD AQUIFER SALTWATER MON W. NR BRADENTON, F(LAT 27 23 44N LONG 082 31 42W)						
OCT 1992						
21...	1000	1960	28.0	680	190	1550
NOV						
23...	1305	2000	28.0	700	210	1590
DEC						
28...	1130	1930	28.5	720	190	1510
JAN 1993						
28...	1320	1990	27.5	720	210	1560
FEB						
24...	1415	1970	28.0	710	200	1550
APR						
07...	1445	1970	28.0	580	170	1590
30...	1530	1970	27.0	700	210	1570
MAY						
26...	1150	1940	28.0	710	190	1510
JUN						
24...	0750	1960	28.5	680	180	1580
AUG						
30...	1000	1940	26.5	700	220	1550
SEP						
27...	1040	1970	28.5	680	220	1570

**WATER RESOURCES DATA FOR FLORIDA, 1993**  
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KEY TO SITE LOCATIONS ON FIGURE 18

PASCO COUNTY

INDEX NUMBER	SITE NUMBER	PAGE NUMBER
1	281023082075701	122
2	281025082384601	122
3	281053082310402	123
4	281101082292502	123
5	281124082353001	124
6	281222082393401	124
6	281222082393403	125
7	281424082192701	125
7	281424082192702	126
8	281448082301801	126
9	281558082264601	127
10	281622082241301	127
11	281636082372001	128
11	281636082372002	128
12	281715082164401	129
12	281715082164402	129
13	281917082420901	130
14	281918082264601	130
14	281918082264602	131
15	281922082403901	131
16	281926082212901	132
16	281926082212903	132
17	281949082332001	133
18	282009082373801	133
19	282540082275703	134

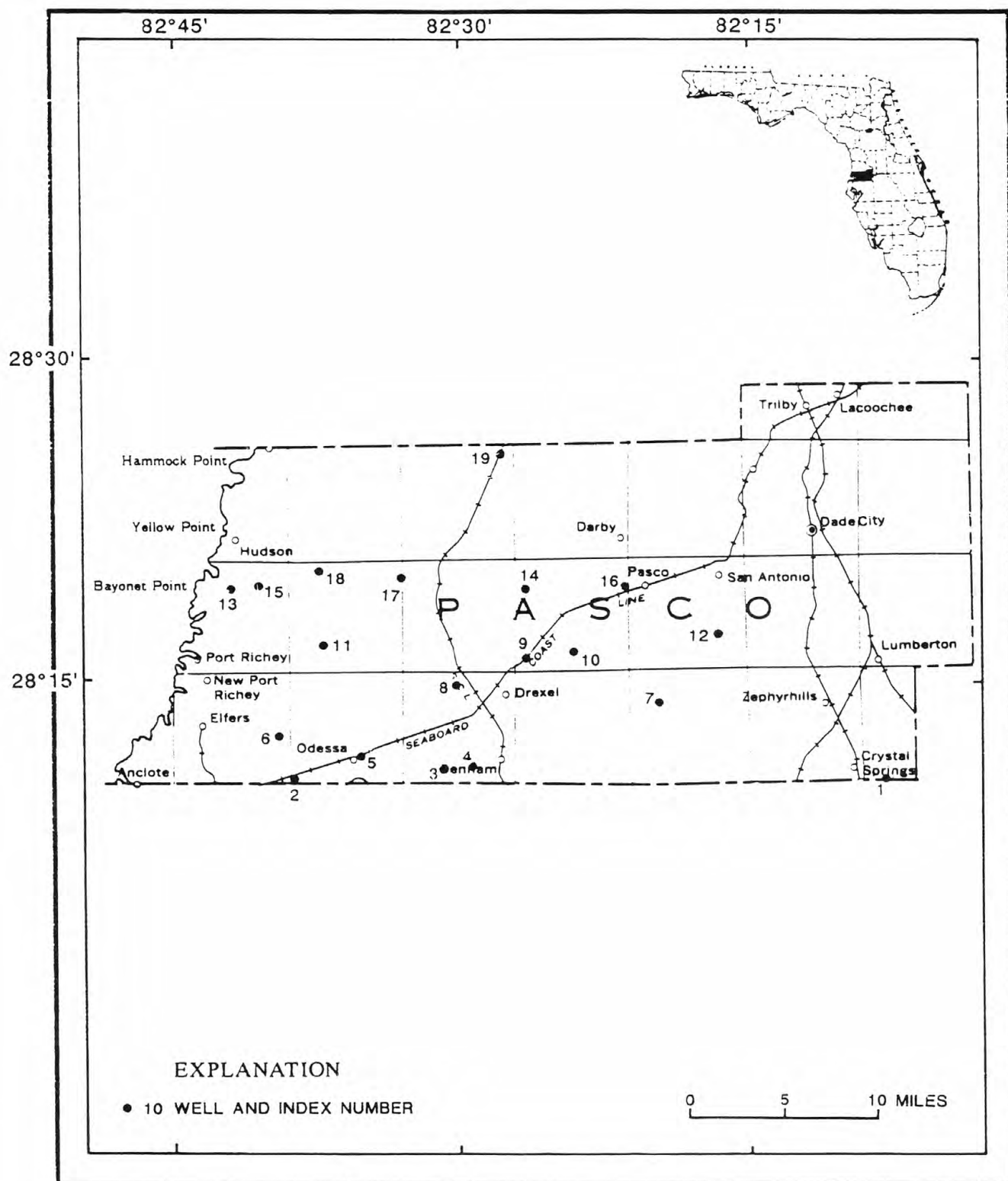


Figure 18.-- Location of wells in Pasco County.

## PASCO COUNTY

**WELL NUMBER.--281023082075701. Weicht Deep Well near Crystal Springs, FL.**

LOCATION.--Lat 28°10'23", long 82°07'57", in SE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.32, T.26 S., R.22 E., Hydrologic Unit 03100205, 1.5 mi east of State Highway 39, and 1.8 mi southeast of Crystal Springs. Owner: C. F. Industries.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, domestic, artesian well, diameter 3 in., depth 100 ft, cased to 60 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 90 ft, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum.

PERIOD OF RECORD.--May 1973 to current year (periodic). Records of water levels prior to October 1977 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 83.78 ft NGVD, Sept. 19, 1973; lowest measured, 73.58 ft NGVD, June 14, 1990.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
05...	1150	83.49	20...	1220	81.93
DEC			JUN		
15...	1010	80.50	09...	1110	77.64
JAN			AUG		
22...	0945	80.92	09...	1140	79.06

**WELL NUMBER.--281025082384601. Eldridge-Wilde Mitchell Well near Tarpon Springs, FL.**

LOCATION.--Lat 28°10'25", long 82°38'46", in SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.31, T.26 S., R.17 E., Hydrologic Unit 03100207, 2.1 mi north of State Highway 582, and 7.0 mi east of Tarpon Springs. Owner: W. H. Mitchell.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused test, artesian well, diameter 10 in., depth 608 ft, cased to 42 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 36.42 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of extension, 1.76 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--November 1972 to July 1974; December 1974 to June 1977 (periodic); July 1977 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 26.19 ft NGVD, Apr. 6, 1987; lowest, 2.73 ft NGVD, Feb. 25, 1991.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.98	16.76	16.96	15.95	13.28	15.18	17.08	13.23	15.93	---	15.15	9.15
10	18.23	15.34	17.47	17.16	11.84	16.54	16.03	14.68	12.28	---	14.39	9.21
15	17.60	17.96	18.56	15.79	11.11	13.27	16.19	15.16	13.49	---	12.07	13.54
20	15.19	16.42	17.05	18.98	12.08	15.42	17.47	11.62	12.61	---	8.26	11.98
25	14.41	16.50	15.86	16.36	17.01	17.80	13.76	9.03	16.68	---	6.47	10.24
EOM	11.18	17.07	15.53	15.32	13.48	13.86	15.52	15.73	15.98	---	14.45	13.26
MAX	18.62	18.41	18.85	19.07	17.08	18.56	18.21	16.20	17.65	---	---	15.87

## PASCO COUNTY

**WELL NUMBER.--281053082310402. St. Petersburg Shallow Well 105 near Land O'Lakes, FL.**

LOCATION.--Lat 28°10'53", long 82°31'04", in SW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.33, T.26 S., R.18 E., Hydrologic Unit 03100207, 1.2 mi south of State Highway 54, and 3.2 mi west of Land O'Lakes. Owner: City of St. Petersburg.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 111 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 20 ft, cased to 18 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 57.82 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.20 ft above land-surface datum.

PERIOD OF RECORD.--March 1973 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 59.23 ft NGVD, Sept. 9, 10, 1988; lowest, 51.12 ft NGVD, June 7, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	57.72	57.48	---	---	56.27	57.24	57.37	55.52	54.27	53.60	53.17	54.23
10	57.09	56.68	---	---	56.39	56.74	56.70	55.17	53.86	53.27	52.89	54.87
15	56.80	56.58	---	57.44	56.34	57.06	57.51	54.79	53.63	53.10	52.72	54.65
20	56.52	56.54	---	56.49	56.26	56.80	56.47	54.42	53.37	53.18	52.63	55.03
25	56.30	56.82	---	57.18	56.49	57.35	56.08	54.05	53.78	53.65	52.60	54.58
EOM	55.97	---	---	56.57	56.80	57.17	55.70	54.93	53.88	53.45	54.16	54.17
MAX	58.04	---	---	---	57.42	57.69	57.58	55.79	54.83	53.93	54.16	55.03

**WELL NUMBER.--281101082292502. Harry Matts Shallow Well near Land O'Lakes, FL.**

LOCATION.--Lat 28°11'01", long 82°29'25", in NW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.34, T.26 S., R.18 E., Hydrologic Unit 03100207, 1.5 mi west of U. S. Highway 41, and 3.2 mi southwest of Land O'Lakes. Owner: Harry Matts.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 10.4 ft, cased to 8 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 68.09 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of male adapter, 1.50 ft above land-surface datum.

PERIOD OF RECORD.--May 1972 to current year (periodic). Records of water levels prior to October 1977 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 65.45 ft NGVD, Sept. 19, 1979; well observed dry at times some years.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
14...	0715	56.95	27...	1934	56.40
DEC			JUN		
01...	0710	DRY	15...	0645	55.96
JAN			AUG		
12...	0725	DRY	05...	0830	55.21

## PASCO COUNTY

**WELL NUMBER.--281124082353001. Swains Well at Odessa, FL.**

LOCATION.--Lat 28°11'24", long 82°35'30", in SW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.27, T.26 S., R.17 E., Hydrologic Unit 03100207, 0.3 mi south of Odessa, and 7.7 mi west of Land O'Lakes. Owner: Mr. Swain.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused irrigation, artesian well, diameter 6 in., depth 316 ft, cased to 65 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 50.69 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of flange, 3.65 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--August 1963 to November 1967; July 1969 to September 1981; October 1981 to current year (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey.

REVISED RECORDS.--WRD FL-76-3: 1975.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 42.08 ft NGVD, Sept. 30, 1979; lowest measured, 30.90 ft NGVD, June 4, 1985.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
13...	1355	37.57	20...	0905	34.99
DEC			JUN		
02...	0742	36.77	14...	0825	34.94
JAN			AUG		
26...	1730	36.60	05...	1315	35.11
MAR			SEP		
15...	0937	36.86	13...	0845	37.06
APR					
19...	1455	37.67			

**WELL NUMBER.--281222082393401. Seven Springs Deep Well near Elfers, FL.**

LOCATION.--Lat 28°12'22", long 82°39'34", in NE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.24, T.26 S., R.16 E., Hydrologic Unit 03100207, 20 ft north of State Highway 54, and 4.1 mi east of Elfers. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 301 ft, cased to 76 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 35.39 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of flange, 1.42 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby irrigation wells.

PERIOD OF RECORD.--July 1965 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 25.43 ft NGVD, Sept. 27, 1979; lowest, 13.87 ft NGVD, Feb. 26, 1991.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	21.41	19.31	20.04	19.22	18.80	19.70	20.56	18.51	---	18.59	16.95	---
10	21.27	19.98	20.02	19.66	18.71	19.84	20.14	18.44	---	18.83	16.25	---
15	20.73	20.39	20.26	19.78	18.31	19.27	19.76	16.88	---	18.59	---	18.91
20	19.86	20.19	19.77	20.42	18.49	20.36	20.61	---	17.16	18.19	---	18.39
25	19.73	19.25	19.63	20.01	19.60	20.43	19.59	16.40	18.35	17.30	---	17.61
EOM	18.43	20.35	19.52	19.57	19.38	19.93	19.26	---	18.80	17.98	---	18.01
MAX	21.42	20.50	20.35	20.53	19.71	20.48	20.71	---	---	19.10	---	---

## PASCO COUNTY

**WELL NUMBER.--281222082393403. Seven Springs Shallow Well near Elfers, FL.**

LOCATION.--Lat 28°12'22", long 82°39'34", in NE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.24, T.26 S., R.16 E., Hydrologic Unit 03100207, 20 ft north of State Highway 54, and 4.1 mi east of Elfers. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 1.25 in., depth 11 ft, cased to 9 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 35.44 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.60 ft above land-surface datum.

REMARKS.--Record is equivalent to that for Seven Springs Shallow Well near Elfers (281222082393402), diameter 1.25 in., depth 5 ft., available July 1968 to November 1972.

PERIOD OF RECORD.--December 1972 to current year (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.14 ft NGVD, Aug. 1, 1974; lowest measured, 27.14 ft NGVD, June 4, 1985.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV - ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV - ATION ABOVE NGVD (FEET)
DEC			JUN		
02...	0844	30.46	15...	1225	29.74
JAN			AUG		
27...	1012	30.34	04...	1615	29.02
MAR			SEP		
15...	1505	30.78	13...	0905	30.71
APR					
10...	0930	30.92			

**WELL NUMBER.--281424082192701. ROMP 85 Avon Park Well near Zephyrhills, FL.**

LOCATION.--Lat 28°14'24", long 82°19'27", in SE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.8, T.26 S., R.20 E., Hydrologic Unit 03100205, 30 ft south of State Highway 54, and 9.0 mi west of Zephyrhills. Owner: Southwest Florida Water Management District.

AQUIFER.--Avon Park formation of Eocene Age, Geologic Unit 124 AVPK.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 505 ft, cased to 450 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 107.94 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.39 ft above land-surface datum.

PERIOD OF RECORD.--February 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 83.52 ft NGVD, Sept. 30, Oct. 1, 1979; lowest, 70.21 ft NGVD, Jan. 22, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	77.73	76.66	77.58	76.51	77.14	77.34	78.23	76.71	75.37	75.66	74.42	74.76
10	78.16	77.40	77.67	76.70	77.44	77.60	78.32	76.23	74.71	75.49	73.94	74.93
15	77.98	77.53	77.33	76.96	77.22	77.35	77.64	75.51	74.75	75.60	73.98	75.36
20	77.72	77.40	77.10	77.05	77.01	77.98	78.14	75.17	74.14	75.24	74.30	75.38
25	77.39	77.23	76.98	77.10	77.09	78.11	77.65	74.28	74.89	75.28	73.55	75.45
BOM	76.64	77.52	76.81	77.49	77.18	77.83	77.13	75.53	75.31	75.09	74.70	75.51
MAX	78.33	77.57	77.67	77.49	77.62	78.25	78.38	77.03	75.71	75.72	75.04	75.51

CAL YR 1992 MAX 78.33

WTR YR 1993 MAX 78.38

**WELL NUMBER.--281424082192702. ROMP 85 Floridan Well near Zephyrhills, FL.**

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 84.22 ft NGVD, Oct. 1, 1979; lowest, 71.61 ft NGVD, May 16, 1981.

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT 05...	1430	78.45	APR 20...	0755	78.83
DEC 15...	0740	78.09	MAY 19...	1405	76.30
JAN 13...	1538	77.62	JUN 09...	0745	75.50

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 64.07 ft NGVD, Sept. 9, 1988; lowest, 55.67 ft NGVD, July 15, 1973.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	63.16	61.33	62.07	61.46	61.75	62.21	62.53	61.02	60.33	60.61	60.83	61.89
10	62.76	62.08	62.04	61.81	61.67	62.27	62.08	60.74	59.86	60.75	60.27	62.24
15	62.23	62.05	61.82	61.94	61.71	62.32	61.86	60.51	60.15	60.91	60.51	61.98
20	61.82	61.95	61.65	62.07	61.61	62.44	62.17	60.24	59.74	60.44	60.57	61.64
25	61.68	61.68	61.36	61.93	61.77	62.34	61.63	59.82	59.74	61.08	60.15	61.62
EOM	61.28	62.13	61.36	62.02	61.95	61.96	61.20	60.83	60.69	60.85	61.48	61.26
MAX	63.17	62.18	62.12	62.23	62.04	62.59	62.53	61.16	60.81	61.14	61.48	62.28
CAL YR 1992	MAX 63.17											
WTR YR 1993	MAX 63.17											

## PASCO COUNTY

**WELL NUMBER.--281558082264601. Pasco Well 13 near Drexel, FL.**

LOCATION.--Lat 28°15'58", long 82°26'46", in SE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.31, T.25 S., R.19 E., Hydrologic Unit 03100205, 300 ft southeast of State Highway 583, and 1.9 mi northeast of Drexel. Owner: C. C. Cone.

AQUIFER.--Tampa limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, unused irrigation, artesian well, diameter 6 in., depth 49 ft, cased to 43 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 80.54 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 2.19 ft above land-surface datum.

PERIOD OF RECORD.--March to September 1934; February 1936 to April 1950 (periodic); June 1951 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 77.24 ft NGVD, Mar. 18, 1960; lowest, 69.49 ft NGVD, June 22, 1992.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	74.11	72.38	72.19	71.71	71.92	72.30	72.85	71.77	70.87	70.94	70.63	71.68
10	73.60	72.58	72.16	71.71	71.80	72.51	72.57	71.59	70.69	71.07	70.42	72.41
15	73.19	72.51	72.09	71.76	71.82	72.81	72.38	71.39	70.64	71.20	70.45	72.31
20	72.87	72.34	71.99	71.88	71.83	72.85	72.47	71.22	70.48	70.96	70.51	72.02
25	72.67	72.14	71.87	71.80	71.81	72.86	72.18	71.01	70.47	70.93	70.32	71.73
EOM	72.36	72.27	71.79	72.00	71.90	72.48	71.94	70.80	71.09	70.77	70.70	71.48
MAX	74.15	72.65	72.26	72.00	72.03	72.89	72.85	71.92	71.09	71.23	70.73	72.43

CAL YR 1992 MAX 74.15

WTR YR 1993 MAX 74.15

**WELL NUMBER.--281622082241301. Cypress Creek Deep Well 3 near Ehren, FL.**

LOCATION.--Lat 28°16'22", long 82°24'13", in NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.33, T.25 S., R.19 E., Hydrologic Unit 03100205, 2.7 mi east of Ehren, and 6.6 mi south of Darby. Owner: Pinellas County.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 352 ft, cased to 136 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 64.48 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--June 1974 to current year. Prior to October 1977, published as Cypress Creek Deep Well 3 near Darby.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 63.68 ft NGVD, Sept. 10, 1974; lowest, 44.67 ft NGVD, Aug. 9, 1993.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	51.75	53.34	51.94	51.46	49.49	49.51	51.19	49.75	46.36	46.62	45.98	45.91
10	51.95	54.00	53.27	50.69	49.63	49.70	50.93	50.09	45.84	46.76	45.12	46.28
15	52.20	51.49	52.30	50.77	49.45	50.26	51.47	48.00	45.50	46.90	45.96	45.71
20	52.26	53.78	53.22	50.10	50.66	50.53	52.05	47.32	45.26	46.44	45.75	46.73
25	51.78	52.16	50.98	49.98	49.40	51.10	51.43	46.78	44.91	46.78	45.25	46.01
EOM	53.59	51.93	53.09	50.87	48.92	50.41	50.29	46.51	45.46	46.47	45.50	48.22
MAX	53.59	54.23	53.42	51.83	51.20	51.55	52.05	50.27	47.23	47.07	46.22	48.22

CAL YR 1992 MAX 54.23

WTR YR 1993 MAX 54.23

**WELL NUMBER.--281636082372001. Moon Lake Deep Well near New Port Richey, FL.**

**EXTREMES FOR PERIOD OF RECORD.**--Highest daily maximum water level, 34.18 ft NGVD, Sept. 9, 1988; lowest, 27.51 ft NGVD, June 11, 1985.

**WELL NUMBER.--281636082372002. Moon Lake Shallow Well near New Port Richey, FL.**

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 35.70 ft NGVD, Aug. 7, 1974; lowest, 28.57 ft NGVD, Dec. 26, 1981.

[illegible]

## PASCO COUNTY

**WELL NUMBER.--281715082164401. State Highway 577 Well near San Antonio, FL.**

LOCATION.--Lat 28°17'15", long 82°16'44", in NE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.26., T.25 S., R.20 E., Hydrologic Unit 03100205, 21 ft west of State Highway 577, and 3.1 mi south of San Antonio. Owner: U. S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 150 ft, cased to 57 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 130.01 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 2.75 ft above land-surface datum.

PERIOD OF RECORD.--August 1964 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 97.01 ft NGVD, Sept. 20, 1964; lowest, 78.61 ft NGVD, Feb. 18, 1991.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	83.38	83.88	84.72	84.62	85.00	84.95	87.15	86.06	83.56	82.87	82.45	82.27
10	84.24	84.31	84.99	84.28	85.10	85.23	87.38	85.46	82.92	82.56	81.59	82.39
15	84.59	84.50	84.88	84.42	85.03	84.50	87.18	84.54	82.67	82.82	81.34	82.84
20	84.65	84.73	84.96	84.36	84.84	85.23	87.22	83.75	82.73	82.83	81.58	83.30
25	84.46	84.51	84.51	84.58	84.82	86.01	87.14	82.81	82.45	82.60	81.75	83.63
EOM	83.95	84.67	84.64	84.77	84.80	86.57	86.67	83.31	82.90	82.83	82.07	83.78
MAX	84.70	84.85	84.99	84.77	85.21	86.57	87.39	86.39	83.64	82.91	82.85	83.78
WTR YR 1993 MAX 87.39												

**WELL NUMBER.--281715082164402. State Highway 577 Shallow Well near San Antonio, FL.**

LOCATION.--Lat 28°17'15", long 82°16'44", in NE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.26, T.25 S., R.20 E., Hydrologic Unit 03100205, 21 ft west of State Highway 577, and 3.1 mi south of San Antonio. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 SAND.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 20.7 ft, cased to 17.7 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 129.78 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.56 ft above land-surface datum.

PERIOD OF RECORD.--January 1970 to current year (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey. The figures of water level as elevation in feet, NGVD from June 26, 1984 to September 3, 1991 are in error. Correct elevations published during this period may be obtained by using datum correction of +0.56 ft.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 126.39 ft NGVD, Sept. 5, 1979; well observed dry Jan. 8, Mar. 5, May 1, 1991.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			AUG		
05...	1505	120.82	09...	0911	116.79
DEC			SEP		
15...	0815	119.56	13...	1725	117.76
MAY					
19...	1428	118.59			

## PASCO COUNTY

**WELL NUMBER.--281917082420901. ROMP TR 17-1 Deep Well at Bayonet Point, FL.**

LOCATION.--Lat 28°19'17", long 82°42'09", in NE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.9, T.25, R.16 E., Hydrologic Unit 03100207, 0.2 mi west of U. S. Highway 19, and 0.7 mi south-west of Bayonet Point. Owner: Southwest Florida Water Management District.

AQUIFER.--Suwannee limestone of Oligocene Age, Geologic Unit 123 SWNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 139 ft, cased to 131 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 10.91 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.27 ft above land-surface datum.

REMARKS.--Water level affected by tidal fluctuations.

PERIOD OF RECORD.--June 1979 to September 1989; October 1989 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.21 ft NGVD, Aug. 31, 1985; lowest measured, 2.87 ft NGVD, Dec. 5, 1991.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
26...	1320	4.79	21...	1134	4.00
DEC			JUN		
08...	1015	3.82	18...	1428	4.05
JAN			AUG		
29...	1511	4.28	09...	1817	3.58
MAR			SEP		
23...	1400	4.69	13...	1200	4.88
APR					
20...	1631	4.14			

**WELL NUMBER.--281918082264601. State Highway 52 Well near Gowers Corner, FL.**

LOCATION.--Lat 28°19'18", long 82°26'46", in NE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.7, T.25 S., R.19 E., Hydrologic Unit 03100207, 30 ft north of State Highway 52, and 3.3 mi east of Gowers Corner. Owner: U. S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 73 ft, cased to 38 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 79.50 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 2.43 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--May 1965 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey. Prior to October 1978, published as State Highway 52 Well east of Gowers Corner.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 77.93 ft NGVD, Dec. 10, 1969; lowest, 66.67 ft NGVD, Aug. 25, 1993.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	69.19	68.68	68.44	67.91	67.87	67.93	69.16	68.63	67.49	66.99	67.14	68.40
10	69.45	68.81	68.40	67.88	67.78	68.16	69.07	68.39	67.32	66.99	66.86	68.93
15	69.36	68.74	68.28	67.88	67.73	68.47	69.10	68.14	67.21	67.24	66.83	68.89
20	69.13	68.63	68.20	67.89	67.70	68.73	69.13	67.94	67.05	67.20	66.84	68.69
25	68.93	68.47	68.09	67.80	67.71	68.94	69.00	67.73	67.00	67.30	66.67	68.42
BOM	68.71	68.52	67.99	67.91	67.76	68.99	68.84	67.73	67.06	67.28	67.78	68.18
MAX	69.48	68.84	68.50	67.98	67.92	68.99	69.16	68.80	67.69	67.32	67.78	68.99

CAL YR 1992 MAX 70.01  
WTR YR 1993 MAX 69.48

## PASCO COUNTY

**WELL NUMBER.--281918082264602. State Highway 52 Shallow Well near Gowers Corner, FL.**

LOCATION.--Lat 28°19'18", long 82°26'46", in NE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.7, T.25 S., R.19 E., Hydrologic Unit 03100207, 30 ft north of State Highway 52, and 3.3 mi east of Gowers Corner. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 1.25 in., depth 6.7 ft, cased to 5.7 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 79.50 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.43 ft above land-surface datum.

PERIOD OF RECORD.--May 1978 to current year (periodic). Prior to October 1978, published as State Highway 52 Shallow Well east of Gowers Corner.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 77.69 ft NGVD, May 18, 1987; well observed dry at times some years.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV - ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV - ATION ABOVE NGVD (FEET)
OCT			JUN		
13...	1318	DRY	14...	1119	DRY
DEC			AUG		
01...	1341	DRY	09...	1310	DRY
MAR			SEP		
18...	1111	DRY	13...	1405	DRY
APR					
21...	1009	DRY			

**WELL NUMBER.--281922082403901. ROMP TR 17-3 Deep Well near Bayonet Point, FL.**

LOCATION.--Lat 28°19'22", long 82°40'39", in NE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.11, T.25 S., R.16 E., Hydrologic Unit 03100207, 0.6 mi south of State Highway 52, and 1.5 mi east of Bayonet Point. Owner: Southwest Florida Water Management District.

AQUIFER.--Suwannee limestone of Oligocene Age, Geologic Unit 123 SWNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 200 ft, cased to 185 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 29.68 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.95 ft above land-surface datum.

REMARKS.--Water level affected by tidal fluctuations.

PERIOD OF RECORD.--June 1979 to September 1989; October 1989 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 10.56 ft NGVD, Sept. 10, 1988; lowest measured, 1.21 ft NGVD, Dec. 5, 1991.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV - ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV - ATION ABOVE NGVD (FEET)
OCT			MAY		
26...	1328	3.39	21...	1416	3.26
DEC			JUN		
08...	1030	2.28	18...	1402	2.82
JAN			AUG		
29...	1530	2.65	09...	1700	2.53
MAR			SEP		
23...	1430	2.88	13...	1335	3.51
APR					
21...	0655	2.61			

## PASCO COUNTY

**WELL NUMBER.--281926082212901. Junction of State Highways 52 and 581 Well near Darby, FL.**

LOCATION.--Lat 28°19'26", long 82°21'29", in NE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.12, T.25 S., R.19 E., Hydrologic Unit 03100205, 45 ft south of State Highway 52, 800 ft east of State Highway 581, and 2.6 mi south of Darby. Owner: U. S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 113 ft, cased to 83 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 89.47 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 2.42 ft above land-surface datum.

PERIOD OF RECORD.--April 1966 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 79.44 ft NGVD, Sept. 30, 1966; lowest, 60.97 ft NGVD, Aug. 17, 1992.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	62.06	63.96	64.13	63.77	63.77	63.93	66.63	66.38	63.96	62.56	61.83	61.32
10	62.62	63.99	64.23	63.58	63.86	64.31	66.63	65.97	63.66	62.38	61.67	61.46
15	63.01	64.13	64.20	63.56	63.81	64.76	66.64	65.52	63.43	62.28	61.51	61.63
20	63.35	64.16	64.12	63.43	63.75	65.14	66.82	65.13	63.15	62.14	61.35	61.72
25	63.67	64.02	64.23	63.47	63.69	65.54	66.80	64.62	62.90	62.02	61.22	61.94
EOM	64.01	63.97	63.94	63.54	63.72	66.13	66.67	64.29	62.75	61.96	61.18	62.05
MAX	64.01	64.23	64.24	63.92	63.89	66.13	66.87	66.63	64.23	62.71	61.94	62.08

WTR YR 1993 MAX 66.87

**WELL NUMBER.--281926082212903. Junction of State Highways 52 and 581 Shallow Well near Darby, FL.**

LOCATION.--Lat 28°19'26", long 82°21'29", in NE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.12, T.25 S., R.19 E., Hydrologic Unit 03100205, 45 ft south of State Highway 52, 800 ft east of State Highway 581, and 2.6 mi south of Darby. Owner: U.S. Geological Survey

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 SAND.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 1.25 in., depth 6 ft, cased to 4 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 89.75 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.50 ft above land-surface datum.

PERIOD OF RECORD.--October 1965 to current year (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 88.92 ft NGVD, July 3, 1974; well observed dry at times some years.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
20...	1300	84.36	21...	1205	85.35
DEC			JUN		
01...	1303	85.07	14...	1014	DRY
JAN			AUG		
28...	1427	85.59	09...	1005	DRY
MAR					
23...	0948	85.00			

## PASCO COUNTY

**WELL NUMBER.--281949082332001. State Highway 52 Deep Well near Fivay Junction, FL.**

LOCATION.--Lat 28°19'49", long 82°33'20", in NW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.12, T.25 S., R.17 E., Hydrologic Unit 03100207, 20 ft south of State Highway 52, and 2.3 mi west of Fivay Junction. Owner: U. S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 73 ft, cased to 60 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 55.89 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.64 ft above land-surface datum.

PERIOD OF RECORD.--April 1966 to current year. Record of water levels prior to January 1974 are available in files of the Geological Survey. Prior to October 1978, published as State Highway 52 Deep Well near Gowers Corner.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 56.75 ft NGVD, Sept. 8, 1988; lowest, 49.91 ft NGVD, June 12, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	54.11	52.70	52.49	52.16	52.38	52.63	53.30	52.68	52.60	52.54	53.15	53.83
10	53.62	52.64	52.61	52.38	52.29	52.63	53.09	52.48	52.25	52.43	52.84	54.06
15	53.34	52.55	52.47	---	52.24	52.95	53.45	52.27	52.21	53.63	52.87	53.86
20	53.10	52.46	52.33	---	52.18	53.12	53.40	52.07	51.98	53.74	52.73	54.09
25	52.91	52.37	52.33	---	52.36	53.03	53.09	51.82	51.80	54.01	52.60	53.63
EOM	52.70	52.64	52.23	52.55	52.53	52.97	52.88	52.90	52.47	53.48	54.06	53.33
MAX	54.23	52.73	52.62	---	52.54	53.13	53.58	52.90	52.90	54.02	54.06	54.29

CAL YR 1992 MAX 54.23

**WELL NUMBER.--282009082373801. State Highway 52 Deep Well near Hudson, FL.**

LOCATION.--Lat 28°20'09", long 82°37'38", in NE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.5, T.25 S., R.17 E., Hydrologic Unit 03100207, 1.6 mi west of junction State Highways 52 and 587, and 5.0 mi southeast of Hudson. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 73 ft, cased to 59 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 33 ft, from topographic map. Measuring point: Top of casing, 1.46 ft above land-surface datum.

PERIOD OF RECORD.--January 1965 to current year (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 30.06 ft NGVD, Mar. 10, 1970; lowest measured, 22.18 ft NGVD, May 22, 1974.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
DEC			MAY		
08...	1046	25.78	20...	1701	25.18
JAN			JUN		
26...	1520	25.57	18...	1334	24.68
MAR			AUG		
23...	1340	26.05	09...	1630	25.13
APR			SEP		
21...	0715	26.37	13...	1415	26.25

## WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

## PASCO COUNTY

**WELL NUMBER.--282540082275703. Masaryktown Shallow Well at Masaryktown, FL.**

LOCATION.--Lat 28°25'40", long 82°27'57", in SW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.1, T.24 S., R.18 E., Hydrologic Unit 03100207, 80 ft west of U. S. Highway 41 at Masaryktown.  
 Owner: Southwest Florida Water Management District.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 SAND.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 1.25 in.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 65.78 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.60 ft above land-surface datum.

REMARKS.--Record is equivalent to that for Masaryktown Shallow Well at Masaryktown (282540082275702), available October 1965 to September 1989.

PERIOD OF RECORD.--January 1990 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 59.23 ft NGVD, July 17, 1991; well observed dry at times some years.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
21...	1200	57.29	21...	1301	57.02
DEC			JUN		
07...	0906	DRY	18...	1251	DRY
JAN			AUG		
26...	1046	DRY	09...	1245	57.11
MAR					
18...	1146	DRY			

MISCELLANEOUS WATER LEVEL MEASUREMENTS  
OCTOBER 1992 TO SEPTEMBER 1993

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PASCO COUNTY

STATION NUMBER	STATION NAME	DATE	ELEV- ATION ABOVE NGVD (FEET)
281023082450701	COASTAL PASCO D. WELL 13 NR NEW PORT RICHEY, FL	05-21-93	2.59
		09-13-93	3.78
281037082071801	J O ALSTON WELL NR CRYSTAL SPRINGS, FL	05-19-93	87.37
		09-14-93	90.80
281046082470801	FPC WELL NO 1 NR TARPON SGS, FLA	05-21-93	0.75
		09-13-93	1.37
281103082322601	DOYLES RANCH DP	05-20-93	41.80
		09-14-93	44.91
281112082211301	IMMER DP NR PEBLE CR	05-19-93	53.13
		09-14-93	53.97
281124082274101	WINTER QUARTERS RV PK	05-20-93	59.32
		09-14-93	60.16
281155082235401	KING DP NR LUTZ	05-19-93	53.31
		09-13-93	53.04
281321082294201	BEXLEY D. WELL 225 NR LAND O' LAKES	05-20-93	59.00
		09-14-93	60.66
281435082221301	ANGUS VALLEY 3 D. WELL 860 NR DREXEL	05-18-93	59.11
		09-14-93	57.66
281437082271401	NININGER D. WELL 857 AT DREXEL	05-20-93	70.25
		09-15-93	71.80
281451082380701	STARKEY DP 10	05-18-93	25.96
		09-14-93	26.68
281504082104801	ROMP 86 AVPK DEEP WELL NEAR ZEPHYRHILLS, FL	05-19-93	63.10
		09-14-93	63.08
281532082412301	NEW PORT RICHEY DP	05-21-93	4.17
		09-13-93	4.97
281535082241301	CYPRESS CK DP TMR-5	05-20-93	50.70
		09-15-93	49.53
281548082220601	815 222	05-19-93	59.32
		09-14-93	57.66
281631082261601	CATCHING'S D. WELL 849 NR DREXEL	05-20-93	66.82
		09-15-93	66.49
281642082440201	COASTAL PASCO D. WELL 04 AT PORT RICHEY, FL	05-21-93	1.37
		09-13-93	1.74
281650082244501	CYPRESS CREEK DP WELL TMR 4 NEAR SAN ANTONIO, FL	05-20-93	48.97
		09-15-93	47.25
281654082201601	CARR D. WELL 846 NR SAN ANTONIO	05-19-93	72.58
		09-14-93	70.66
281719082224801	CYPRESS CK DP TMR-1	05-20-93	62.28
		09-15-93	42.65
281745082255001	STARLING D. WELL 809 NR DREXEL	05-20-93	64.16
		09-15-93	63.98

MISCELLANEOUS WATER LEVEL MEASUREMENTS  
OCTOBER 1992 TO SEPTEMBER 1993

PASCO COUNTY

STATION NUMBER	STATION NAME	DATE	ELEV- ATION ABOVE NGVD (FEET)
281746082233701	CYPRESS CK TMR-3	05-20-93	44.24
		09-15-93	42.82
281801082225101	CYPRESS CR WF D. WELL E-107 NR DREXEL	05-20-93	37.70
		09-15-93	39.66
281845082224001	CYPRESS CK DP TMR-2	05-20-93	26.44
		09-15-93	54.96
281923082252201	ROMP 93 DP NR DARBY	05-20-93	65.28
		09-13-93	64.40
281948082415301	WITHLACOCHEE ELEC 01 AT	05-20-93	1.54
		09-13-93	2.35
281954082413401	PONDEROSA DEV D. WELL AT BAYONET POINT, FL	05-21-93	2.21
		09-13-93	2.97
282044082312401	H. KENT GROVE WELL	05-20-93	60.77
		09-15-93	61.94
282229082405801	COASTAL PASCO D. WELL 02 AT HUDSON, FL	05-21-93	1.76
		09-15-93	1.57
282238082362101	JUSTICE DP NR HUDSON	05-21-93	24.38
		09-15-93	21.72
282434082200301	AIRSTREAM TRL PARK D. WELL 833 NR DARBY	05-19-93	62.69
		09-15-93	64.87
282434082283601	D. A. SUTYAK	05-20-93	24.96
		09-15-93	24.07
282516082365501	LORE DP NR ARIPEKA	05-18-93	13.09
		09-15-93	11.72
282534082222802	BARTHLE RANCH FLRD WELL NEAR MASARYTOWN, FL	05-18-93	43.46
		09-15-93	42.64
282540082275701	MASARYKTOWN DP	05-20-93	46.22
		09-15-93	25.31
282552082314201	GOOCH DP NR MASARKTN	05-18-93	21.18
		09-15-93	20.47



**WATER RESOURCES DATA FOR FLORIDA, 1993**  
**Volume 3B: Southwest Florida Ground Water**

KEY TO SITE LOCATIONS ON FIGURE 19

PINELLAS COUNTY

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11	280532082405702	150
12	280546082390701	151
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18	280734082442101	159
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20	280753082465201	160
21	280852082414301	160
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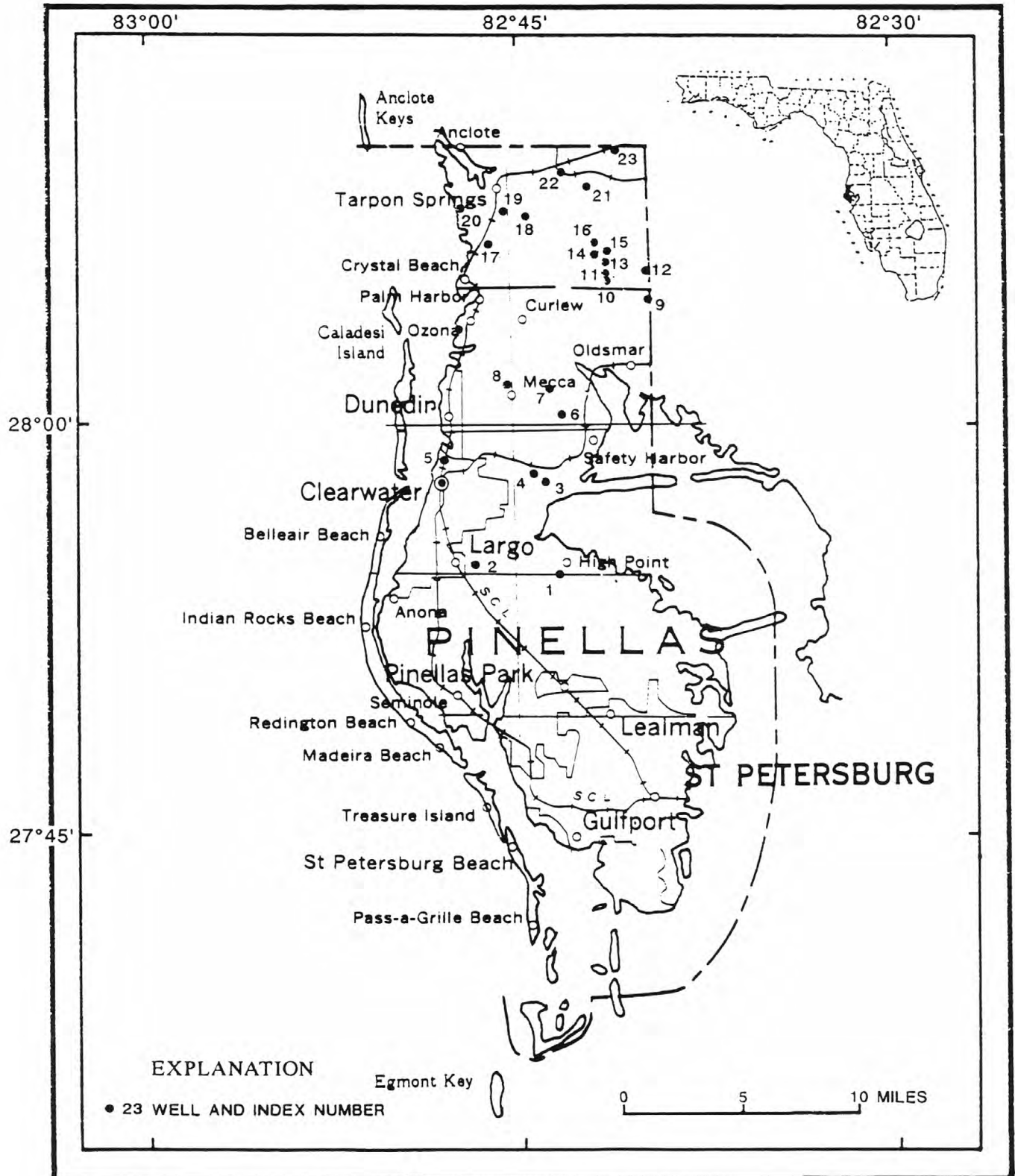


Figure 19.-- Location of wells in Pinellas County.

## PINELLAS COUNTY

**WELL NUMBER.--275430082431401. ROMP TR 13-2A Lower Suwannee Well near Largo, FL.**

LOCATION.--27°54'30", long 82°43'14", in SW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.32, T.29 S., R.16 E., Hydrologic Unit 03100206, 0.5 mi south of East Bay Drive, and 4.4 mi east of Largo. Owner: Southwest Florida Water Management District.

AQUIFER.--Suwannee limestone of Oligocene Age, Geologic Unit 123 SWNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 551 ft, cased to 530 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 16.78 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of casing, 3.15 ft above land-surface datum.

PERIOD OF RECORD.--April 1988 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.18 ft below NGVD, Oct. 13, 1992; lowest measured, 4.65 ft below NGVD, June 20, 1988.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
13...	1000	-1.18	29...	1920	-2.27
NOV			JUN		
30...	0750	-1.97	22...	1630	-2.64
JAN			AUG		
11...	0940	-1.85	10...	1150	-2.57

**WELL NUMBER.--275430082431402. ROMP TR 13-2A Upper Suwannee Well near Largo, FL.**

LOCATION.--Lat 27°54'30", long 82°43'14", in SW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.32, T.29 S., R.16 E., Hydrologic Unit 03100206, 0.5 mi south of East Bay Drive, and 4.4 mi east of Largo. Owner: Southwest Florida Water Management District.

AQUIFER.--Suwannee limestone of Oligocene Age, Geologic Unit 123 SWNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 279 ft, cased to 269 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 17.64 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of coupling, 2.45 ft above land-surface datum.

PERIOD OF RECORD.--April 1988 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.73 ft NGVD, Oct. 13, 1992; lowest measured, 3.46 ft NGVD, June 20, 1988.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
13...	1005	6.73	26...	1935	5.43
NOV			JUN		
30...	0955	5.86	22...	1645	4.95
JAN			AUG		
11...	0940	6.01	10...	1155	5.06

## PINELLAS COUNTY

**WELL NUMBER.--275430082431403. ROMP TR 13-2 NRSD Well near Largo, FL.**

LOCATION.--Lat 27°54'30", long 82°43'14", in SW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.32, T.29 S., R.16 E., Hydrologic Unit 03100206, 0.5 mi south of East Bay Drive, and 2.0 mi east of Largo. Owner: Southwest Florida Water Management District.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 8 in., depth 16 ft, cased to 10 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 17.49 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 2.95 ft above land-surface datum.

PERIOD OF RECORD.--October 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 17.03 ft NGVD, Sept. 8, 1988; lowest, 11.89 ft NGVD, June 22, 23, 1992.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.85	14.46	14.50	13.44	14.32	15.89	16.09	13.59	12.82	13.64	13.78	15.96
10	15.30	14.56	15.18	14.40	14.19	14.87	14.74	13.48	12.59	14.89	13.62	16.48
15	14.50	14.43	14.25	15.39	14.40	15.67	16.25	13.28	12.83	15.66	13.67	16.00
20	14.13	14.03	13.94	14.61	14.09	14.88	14.81	13.09	12.50	14.48	13.50	15.88
25	13.92	13.85	13.71	15.70	14.43	15.15	14.13	12.89	12.49	14.04	14.33	14.59
EOM	13.73	14.57	13.57	14.80	15.25	14.37	13.81	13.24	13.02	14.61	16.52	14.25
MAX	16.60	15.27	15.18	16.20	15.86	16.39	16.25	13.76	13.15	15.66	16.52	16.60

WTR YR 1993 MAX 16.60

**WELL NUMBER.--275458082464001. ROMP TR 13-1A Ocala Well at Largo, FL.**

LOCATION.--Lat 27°54'58", long 82°46'40", in NW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.35, T.29 S., R.15 E., Hydrologic Unit 03100207, 50 ft south of East Bay Drive, and 0.9 mi northeast of Largo. Owner: Southwest Florida Water Management District.

AQUIFER.--Ocala limestone of Eocene Age, Geologic Unit 124 OCAL.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 2 in., depth 540 ft, cased to 520 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 9.92 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.14 ft above land-surface datum.

PERIOD OF RECORD.--April 1988 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.39 ft NGVD, Oct. 13, 1992; lowest measured, 3.09 ft below NGVD, June 20, 1988.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
13...	1050	0.39	29...	1959	-0.74
NOV			JUN		
30...	1015	-0.55	22...	1545	-1.40
JAN			AUG		
11...	1005	-0.51	10...	1210	-1.36

## WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

## PINELLAS COUNTY

**WELL NUMBER.--275458082464002. ROMP TR 13-1A Suwannee Well at Largo, FL.**

LOCATION.--Lat 27°54'58", long 82°46'40", in NW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.35, T.29 S., R.15 E., Hydrologic Unit 03100207, 50 ft south of East Bay Drive, and 0.9 mi northeast of Largo. Owner: Southwest Florida Water Management District.

AQUIFER.--Suwannee limestone of Oligocene Age, Geologic Unit 123 SWNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 264 ft, cased to 254 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 10.16 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.68 ft above land-surface datum.

PERIOD OF RECORD.--April 1988 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.26 ft NGVD, Oct. 13, 1992; lowest measured, 4.45 ft NGVD, June 20, 1988.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
13...	1040	8.26	29...	1955	7.14
NOV			JUN		
30...	1015	7.39	22...	1545	6.34
JAN			AUG		
11...	1005	7.39	10...	1220	6.40

**WELL NUMBER.--275458082464003. ROMP TR 13-1A Tampa Well at Largo, FL.**

LOCATION.--Lat 27°54'58", long 82°46'40", in NW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.35, T.29 S., R.15 E., Hydrologic Unit 03100207, 50 ft south of East Bay Drive, and 0.9 mi northeast of Largo. Owner: Southwest Florida Water Management District.

AQUIFER.--Tampa limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 188 ft, cased to 173 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 9.95 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.10 ft above land-surface datum.

PERIOD OF RECORD.--April 1988 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.42 ft NGVD, Oct. 13, 1992; lowest measured, 4.45 ft NGVD, June 20, 1988.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
13...	1045	8.42	29...	2000	7.29
NOV			JUN		
30...	1120	7.47	22...	1550	6.44
JAN			AUG		
11...	1005	7.56	10...	1205	6.55

## PINELLAS COUNTY

**WELL NUMBER.--275458082464004. ROMP TR 13-1A NRSD Well at Largo, FL.**

LOCATION.--Lat 27°54'58", long 82°46'40", in NW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.35, T.29 S., R.15 E., Hydrologic Unit 03100207, 50 ft south of East Bay Drive, and 0.9 mi northeast of Largo. Owner: Southwest Florida Water Management District.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, water-table well, diameter 6 in., depth 20 ft, cased to 10 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 10.20 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.13 ft above land-surface datum.

PERIOD OF RECORD.--October 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 9.38 ft NGVD, Sept. 8, 1988; lowest, 2.59 ft NGVD, June 20, 1990.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.85	3.72	3.70	3.36	3.96	4.61	4.64	3.73	3.34	3.31	2.98	3.84
10	4.62	3.67	3.85	3.81	3.87	4.20	4.41	3.66	3.18	3.31	3.00	4.69
15	4.10	3.72	3.60	4.13	3.88	4.83	4.77	3.55	3.58	3.14	3.08	4.06
20	3.77	3.52	3.49	4.01	3.82	4.23	4.47	3.49	3.18	3.05	3.12	3.76
25	3.58	3.45	3.44	4.43	4.07	4.56	4.09	3.39	3.56	3.05	3.48	3.53
EOM	3.47	3.82	3.38	4.31	4.34	4.15	3.89	3.48	3.48	3.23	4.17	3.35
MAX	7.26	3.93	3.85	4.85	4.39	5.13	4.92	3.86	3.58	3.46	4.17	4.69
CAL YR 1992	MAX 7.26											
WTR YR 1993	MAX 7.26											

**WELL NUMBER.--275753082433701. Clearwater-Dunedin Deep Well 27 near Clearwater, FL.**

LOCATION.--Lat 27°57'53", long 82°43'37", in SE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.17, T.29 S., R.16 E., Hydrologic Unit 03100207, 0.3 mi north of State Highway 60, and 4.3 mi east of Clearwater. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 6 in., depth 560 ft, cased to 523 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 48.06 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--October 1982 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.45 ft NGVD, Sept. 19, 1988; lowest measured, 0.67 ft below NGVD, May 18, 1984.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
13...	1220	2.92	29...	1814	1.81
NOV			JUN		
30...	1200	2.20	22...	1400	1.27
JAN			AUG		
11...	1155	2.22	03...	1138	1.36

## PINELLAS COUNTY

**WELL NUMBER.--275815082440401. Pinellas Well 665 near Clearwater, FL.**

LOCATION.--Lat 27°58'15", long 82°44'04", in SW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.7, T.29 S., R.16 E., Hydrologic Unit 03100206, 1.1 mi north of State Highway 60, and 4.0 mi east of Clearwater. Owner: Pinellas County.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused public supply, artesian well, diameter 10 in., depth 299 ft, cased to 81 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 33.61 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.00 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--June 1954 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 14.79 ft NGVD, Sept. 15, 1959; lowest, 7.18 ft NGVD, May 14, 15, 22, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.73	10.56	10.29	10.24	10.44	10.70	10.14	---	8.91	8.92	8.77	10.18
10	11.70	10.29	10.62	10.27	10.28	10.24	10.22	---	8.24	8.99	8.59	10.63
15	11.38	10.09	10.31	10.48	10.29	10.15	10.08	---	8.35	9.02	8.90	10.78
20	10.92	10.51	10.45	10.20	10.17	10.03	10.20	8.87	8.36	9.03	9.05	10.76
25	10.85	10.61	10.32	10.46	10.41	10.17	9.85	8.71	8.67	8.99	8.65	10.52
EOM	10.65	10.45	10.13	10.35	10.32	9.99	9.13	9.08	8.65	9.15	9.84	10.10
MAX	11.76	10.85	10.68	10.50	10.65	10.81	10.31	---	9.08	9.23	9.84	10.95

CAL YR 1992 MAX 11.76

**WELL NUMBER.--275843082474201. Garden Street Triangle Well at Clearwater, FL.**

LOCATION.--Lat 27°58'43", long 82°47'42", in NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.9, T.29 S., R.15 E., Hydrologic Unit 03100207, 0.9 mi north of State Highway 60, and 1.0 mi north of City Hall at Clearwater. Owner: City of Clearwater.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused public supply, artesian well, diameter 10 in., depth 208 ft, cased to 54 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 32.27 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 1.17 ft above land-surface datum.

REMARKS.--Water level affected by tidal fluctuations.

PERIOD OF RECORD.--March 1946 to September 1983; October 1983 to December 1990 (periodic); January 1991 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.63 ft NGVD, Sept. 6, 1950; lowest, 3.55 ft NGVD, May 25, 1956.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.19	6.05	6.00	5.44	6.34	6.21	6.35	5.66	5.23	5.52	5.43	6.38
10	6.98	5.63	5.70	5.76	6.07	5.96	6.38	5.59	4.99	5.56	5.29	6.48
15	6.57	5.64	5.69	6.14	6.01	5.42	6.49	5.52	5.20	5.60	5.57	6.54
20	6.30	6.19	5.80	6.02	5.99	5.51	6.12	5.55	5.21	5.61	5.77	6.63
25	6.63	6.35	5.72	6.22	5.93	6.12	5.95	5.32	5.40	5.53	5.49	6.38
EOM	6.28	5.88	5.51	6.08	5.76	6.17	5.83	5.56	5.45	5.50	6.23	5.85
MAX	7.46	6.47	6.11	6.25	6.55	7.47	6.65	5.94	5.56	5.83	6.23	6.77

CAL YR 1992 MAX 7.46  
WTR YR 1993 MAX 7.47

## PINELLAS COUNTY

**WELL NUMBER.--280022082424901. Clearwater Well 67 near Clearwater, FL.**

LOCATION.--Lat 28°00'22", long 82°42'49", in NE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.32, T.28 S., R.16 E., Hydrologic Unit 03100206, 1.0 mi north of State Highway 588, 1.0 mi east of U. S. Highway 19, and 3.5 mi northeast of Clearwater. Owner: City of Clearwater.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused public supply, artesian well, diameter 12 in., depth 297 ft, cased to 92 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 59.71 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 0.98 ft above land-surface datum.

REMARKS.--Water level affected by tidal fluctuations and pumping of nearby public supply wells.

PERIOD OF RECORD.--February 1983 to September 1987; April 1988 to April 1990; October 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 11.38 ft NGVD, Sept. 1, 1985; lowest, 7.03 ft NGVD, June 20, 1988.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.68	9.49	9.61	9.35	9.61	9.96	9.97	9.19	8.75	9.21	9.00	9.60
10	10.43	9.09	9.72	9.41	9.51	9.51	9.95	9.10	8.50	9.03	8.67	9.96
15	9.99	8.86	9.22	9.56	9.60	9.10	10.08	9.05	8.65	9.30	9.03	10.10
20	9.68	9.65	9.50	9.45	9.27	9.06	9.83	9.02	8.68	9.20	9.36	10.16
25	10.05	9.63	9.15	9.66	9.45	9.76	9.57	8.72	8.99	8.96	8.78	10.03
EOM	9.55	9.35	9.03	9.55	9.29	9.75	9.32	9.07	9.04	9.21	9.74	9.45
MAX	10.85	9.86	9.89	9.76	9.94	10.41	10.22	9.46	9.11	9.45	9.74	10.31
CAL YR 1992	MAX 10.85											
WTR YR 1993	MAX 10.85											

**WELL NUMBER.--280118082434501. ROMP TR 14-3 Suwannee Well near Dunedin, FL.**

LOCATION.--Lat 28°01'18", long 82°43'45", in SW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.29, T.28 S., R. 16 E., Hydrologic Unit 03100206, 1,000 ft north of State Highway 580, and 3.5 mi northeast of Dunedin. Owner: Southwest Florida Water Management District.

AQUIFER.--Suwannee limestone of Oligocene Age, Geologic Unit 123 SWNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 319 ft, cased to 299 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 95.23 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of shelter floor, 2.38 ft above land-surface datum.

PERIOD OF RECORD.--April 1988 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.24 ft NGVD, Oct. 13, 1992; lowest measured, 5.51 ft NGVD, June 17, 1988.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
13...	1435	9.24	29...	1723	8.43
NOV			JUN		
30...	1410	8.63	22...	1210	7.52
JAN			AUG		
11...	1300	8.71	10...	1025	7.32

## PINELLAS COUNTY

**WELL NUMBER.--280118082434502. ROMP TR 14-3 Tampa Well near Dunedin, FL.**

**LOCATION.**--Lat 28°01'18", long 82°43'45", in SW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec. 29, T.28 S., R.16 E., Hydrologic Unit 03100206, 1,000 ft north of State Highway 580, and 3.5 mi northeast of Dunedin. Owner: Southwest Florida Water Management District.

**AQUIFER.**--Tampa limestone of Miocene Age, Geologic Unit 112 TAMP.

**WELL CHARACTERISTICS.**--Drilled, observation, artesian well, diameter 10 in., depth 176 ft, cased to 125 ft.

**INSTRUMENTATION.**--Periodic measurement with chalked tape by USGS personnel.

**DATUM.**--Land-surface datum is 95.23 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of shelter floor, 2.38 ft above land-surface datum.

**PERIOD OF RECORD.**--October 1988 to current year (periodic).

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 9.37 ft NGVD, Sept. 15, 1993; lowest measured, 6.26 ft NGVD, Apr. 7, 1989.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
13...	1440	9.21	19...	1330	7.73
NOV			JUN		
30...	1415	8.55	22...	1200	7.38
JAN			AUG		
11...	1300	8.67	10...	1020	7.09
APR			SEP		
29...	1730	8.43	15...	1741	9.37

**WELL NUMBER.--280118082434503. ROMP TR 14-3 NRSD Well near Dunedin, FL.**

**LOCATION.**--Lat 28°01'18", long 82°43'45", in SW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec. 29, T.28 S., R.16 E., Hydrologic Unit 03100206, 1,000 ft north of State Highway 580, and 3.5 mi northeast of Dunedin. Owner: Southwest Florida Water Management District.

**AQUIFER.**--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

**WELL CHARACTERISTICS.**--Drilled, observation well, diameter 6 in., depth 30 ft, cased to 10 ft.

**INSTRUMENTATION.**--Water-stage recorder--60-minute interval.

**DATUM.**--Land-surface datum is 95.49 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.31 ft above land-surface datum.

**PERIOD OF RECORD.**--October 1987 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest daily maximum water level, 95.17 ft NGVD, Sept. 8, 1988; lowest, 89.13 ft NGVD, June 22, 1992.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	92.93	91.03	90.76	90.17	91.15	91.79	91.93	91.05	90.65	91.07	90.82	92.60
10	92.29	90.92	90.58	90.32	90.95	91.63	91.66	90.89	90.38	91.14	90.63	93.74
15	91.89	90.80	90.49	90.44	90.91	92.26	91.95	90.71	90.31	91.63	90.51	93.75
20	91.64	90.67	90.41	90.92	90.79	91.91	91.98	90.56	90.20	91.31	90.63	93.91
25	91.42	90.56	90.34	90.82	91.32	91.74	91.51	90.42	90.15	91.28	91.07	92.45
EOM	91.18	90.88	90.25	91.40	91.55	91.49	91.26	90.80	90.95	91.03	93.68	92.05
MAX	93.15	91.15	90.88	91.45	91.55	92.30	92.31	91.21	90.95	91.63	93.68	93.95

WTR YR 1993 MAX 93.95

## PINELLAS COUNTY

**WELL NUMBER.--280132082452801. ROMP TR 14-2 Ocala Well near Dunedin, FL.**

LOCATION.--Lat 28°01'32", long 82°45'28", in SE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.25, T.28 S., R.15 E., Hydrologic Unit 03100207, 0.5 mi north of State Highway 580, and 2.0 mi northeast of Dunedin. Owner: Southwest Florida Water Management District.

AQUIFER.--Ocala limestone of Eocene Age, Geologic Unit 124 OCAL.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 460 ft, cased to 440 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 54.52 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.85 ft above land-surface datum.

PERIOD OF RECORD.--April 1988 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.89 ft NGVD, Oct. 4, 1988; lowest measured, 1.37 ft NGVD, June 17, 1988.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
13...	1500	3.70	29...	1644	2.78
NOV			JUN		
30...	1458	3.09	22...	1236	2.22
JAN			AUG		
11...	1330	3.00	10...	0945	2.27

**WELL NUMBER.--280132082452802. ROMP TR 14-2 Tampa Well near Dunedin, FL.**

LOCATION.--Lat 28°01'32", long 82°45'28", in SE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.25, T.28 S., R.15 E., Hydrologic Unit 03100207, 0.5 mi north of State Highway 580, and 2.0 mi northeast of Dunedin. Owner: Southwest Florida Water Management District.

AQUIFER.--Tampa limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 2 in., depth 218 ft, cased to 213 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 54.57 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.65 ft above land-surface datum.

PERIOD OF RECORD.--April 1988 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.78 ft NGVD, Oct. 4, 1991; lowest measured, 3.48 ft NGVD, June 17, 1988.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
13...	1530	6.56	29...	1650	5.32
NOV			JUN		
30...	1500	6.00	22...	1235	4.59
JAN			AUG		
11...	1330	5.74	10...	1000	4.67

## PINELLAS COUNTY

**WELL NUMBER.--280132082452803. ROMP TR 14-2 NRSD Well near Dunedin, FL.**

**LOCATION.--**Lat 28°01'32", long 82°45'28", in SE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.25, T.28 S., R.15 E., Hydrologic Unit 03100207, 0.5 mi north of State Highway 580, and 2.0 mi northeast of Dunedin. Owner: Southwest Florida Water Management District.

**AQUIFER.--**Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

**WELL CHARACTERISTICS.--**Drilled, observation, water-table well, diameter 6 in., depth 22 ft, cased to 18 ft.

**INSTRUMENTATION.--**Water-stage recorder--60-minute interval.

**DATUM.--**Land-surface datum is 54.50 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 2.22 ft above land-surface datum.

**PERIOD OF RECORD.--**October 1987 to current year.

**EXTREMES FOR PERIOD OF RECORD.--**Highest daily maximum water level, 53.87 ft NGVD, Sept. 8, 1988; lowest, 46.98 ft NGVD, June 24, 1992.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	51.25	49.79	49.48	48.80	49.74	50.24	50.59	49.58	49.04	49.04	48.30	50.73
10	50.50	49.65	49.37	49.22	49.59	50.02	50.35	49.39	48.70	48.99	48.15	52.42
15	50.12	49.36	49.20	49.35	49.51	50.66	51.13	49.20	48.75	49.19	48.19	51.86
20	49.85	49.21	49.06	49.50	49.42	50.31	50.44	49.03	48.55	49.04	48.46	51.22
25	49.61	49.11	48.96	49.64	49.76	50.28	50.06	48.84	48.82	48.78	48.54	50.60
EOM	49.39	49.63	48.89	50.03	50.08	50.18	49.79	49.38	49.11	48.43	51.02	50.23
MAX	52.52	49.84	49.60	50.31	50.10	50.96	51.15	49.74	49.34	49.22	51.02	52.42
WTR YR 1993    MAX 52.52												

**WELL NUMBER.--280446082390701. East Lake Deep Well 17 near Tarpon Springs, FL.**

**LOCATION.--**Lat 28°04'46", long 82°39'07", in SE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.1, T.28 S., R.16 E., Hydrologic Unit 03100206, 3.3 mi north of intersection State Highway 580 and Race Track Road, and 7.9 mi southeast of Tarpon Springs. Owner: Pinellas County Water System.

**AQUIFER.--**Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

**WELL CHARACTERISTICS.--**Drilled, observation, artesian well, diameter 12 in., depth 305, cased to 57 ft.

**INSTRUMENTATION.--**Periodic measurement with chalked tape by USGS personnel.

**DATUM.--**Land-surface datum is 17.97 ft above National Geodetic Vertical Datum of 1929. Measuring point: Bottom of access hole in casing, 3.38 ft above land-surface datum.

**REMARKS.--**Water level affected by pumping of nearby public supply wells.

**PERIOD OF RECORD.--**July 1977 to current year (periodic).

**EXTREMES FOR PERIOD OF RECORD.--**Highest water level measured, 19.00 ft NGVD, Oct. 4, 1979; lowest measured, 12.87 ft NGVD, June 7, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
05...	1035	17.58	08...	0809	17.06
NOV			MAY		
10...	1340	16.34	17...	1220	15.59
DEC			JUL		
03...	0945	16.46	15...	0750	16.34
JAN			AUG		
11...	0810	16.45	26...	0935	15.14
FEB			SEP		
05...	0759	16.39	13...	1051	16.49
MAR			30...	1035	16.03
01...	0830	16.81			

## WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

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## PINELLAS COUNTY

**WELL NUMBER.--280511082405602. East Lake Shallow Well 8 near Oldsmar, FL.**

LOCATION.--Lat 28°05'11", long 82°40'56", in SE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.34, T.27 S., R.16 E., Hydrologic Unit 03100206, 2.5 mi northeast of intersection State Highway 584 and East Lake Road, and 3.6 mi northwest of Oldsmar. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 110 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 12.4 ft, cased to 7.4 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 12.78 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of male adaptor, 1.80 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--May 1976 to current year (periodic). Records of water levels prior to October 1979 are available in files of the Geological Survey. The figures of water level as elevation, in feet NGVD, prior to Oct. 1, 1988, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of -0.22 ft.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.68 ft NGVD, Aug. 2, 1991; lowest measured, 8.06 ft NGVD, June 7, 1985.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAR		
05...	1135	12.48	01...	0908	12.11
NOV			APR		
10...	1425	11.63	08...	0921	11.83
DEC			JUL		
03...	1015	12.05	15...	0836	11.90
JAN			AUG		
11...	0840	11.71	26...	1022	10.34
FEB			SEP		
05...	0840	11.73	30...	1130	11.15

## WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

## PINELLAS COUNTY

**WELL NUMBER.--280532082405702. East Lake Shallow Well 7 near Oldsmar, FL.**

LOCATION.--Lat 28°05'32", long 82°40'57", in NE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.34, T.27 S., R.16 E., Hydrologic Unit 03100206, 2.8 mi northeast of intersection State Highway 584 and East Lake Road, and 3.9 mi northwest of Oldsmar. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 110 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 12.3 ft, cased to 7.3 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 13.82 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of male adaptor, 3.10 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--September 1975 to current year (periodic). Records of water levels prior to October 1979 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.93 ft NGVD, Sept. 18, 1975; lowest measured, 8.29 ft NGVD, June 7, 1985.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAR		
05...	1145	12.39	01...	0914	10.80
NOV			APR		
10...	1430	10.39	08...	0928	10.56
DEC			JUL		
03...	1026	10.36	15...	0845	10.75
JAN			AUG		
11...	0845	10.52	26...	1030	9.95
FEB			SEP		
05...	0845	10.40	30...	1137	10.22

## WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

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## PINELLAS COUNTY

**WELL NUMBER.--280546082390701. East Lake Deep Well 14 near Tarpon Springs, FL.**

LOCATION.--Lat 28°05'46", long 82°39'07", in SE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.36, T.27 S., R.16 E., Hydrologic Unit 03100206, 4.3 mi north of intersection State Highway 580 and Race Track Road, and 7.2 mi southeast of Tarpon Springs. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 12 in., depth 305 ft, cased to 57 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 22.53 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of access hole in casing, 1.20 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--July 1977 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.40 ft NGVD, Aug. 27, 1980; lowest measured, 13.17 ft NGVD, June 7, 1985.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
05...	1048	18.61	08...	0840	17.85
NOV			MAY		
10...	1345	17.65	17...	1243	16.13
DEC			JUL		
03...	0949	17.53	15...	0800	17.06
JAN			AUG		
11...	0815	16.94	26...	0947	14.66
FEB			SEP		
05...	0805	16.77	13...	1111	17.15
MAR			30...	1050	16.12
01...	0840	17.53			

## WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

## PINELLAS COUNTY

**WELL NUMBER.--280556082405703. East Lake Shallow Well 4A near Oldsmar, FL.**

LOCATION.--Lat 28°05'56", long 82°40'57", in NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.34, T.27 S., R.16 E., Hydrologic Unit 03100206, 3.2 mi northeast of intersection State Highway 584 and East Lake Road, and 4.4 mi northwest of Oldsmar. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 110 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 11.8 ft, cased to 7.8 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 15.00 ft above National Geodetic Vertical Datum of 1929 (levels by Pinellas County). Measuring point: Top of male adaptor, at land-surface datum.

REMARKS.--Water level affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--March 1985 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.71 ft NGVD, Aug. 2, 1991; lowest measured, 9.20 ft NGVD, June 7, 1985.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAR		
05...	1150	13.33	01...	0917	12.93
NOV			APR		
10...	1440	12.97	08...	0934	12.98
DEC			JUL		
03...	1030	13.10	15...	0852	13.29
JAN			AUG		
11...	0850	13.00	26...	1035	12.77
FEB			SEP		
05...	0850	12.78	30...	1142	12.61

## PINELLAS COUNTY

**WELL NUMBER.--280603082410902. East Lake Shallow Well 3 near Oldsmar, FL.**

LOCATION.--Lat 28°06'03", long 82°41'09", in SE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.27, T.27 S., R.16 E., Hydrologic Unit 03100206, 3.1 mi northeast of intersection State Highway 584 and East Lake Road, and 4.6 mi northwest of Oldsmar. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 110 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 9.4 ft, cased to 4.4 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 13.00 ft above National Geodetic Vertical Datum of 1929 (levels by Pinellas County). Measuring point: Top of casing, 4.50 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--May 1976 to current year (periodic). Records of water levels prior to October 1979 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.89 ft NGVD, Sept. 18, 1979; lowest measured, 6.58 ft NGVD, July 3, 1984.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAR		
05...	1200	13.56	01...	0921	12.02
NOV			APR		
10...	1445	11.48	08...	0940	12.02
DEC			JUL		
03...	1035	11.54	15...	0900	10.69
JAN			AUG		
11...	0855	11.10	26...	1040	9.45
FEB			SEP		
05...	0857	11.61	30...	1150	10.07

**WELL NUMBER.--280614082411601. East Lake Monitor M2 Deep Well near Tarpon Springs, FL.**

LOCATION.--Lat 28°06'14", long 82°41'16", in SW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.27, T.27 S., R.16 E., Hydrologic Unit 03100206, 0.4 m east of East Lake Road, 3.2 mi south of State Highway 582, and 5.2 mi southeast of Tarpon Springs. Owner: Pinellas County.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 538 ft, cased to 507 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 14.83 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.29 ft above land-surface datum.

PERIOD OF RECORD.--January 1978 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.63 ft NGVD, Sept. 18, 1979; lowest measured, 7.62 ft NGVD, June 14, 1989.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
05...	1215	12.80	08...	0957	12.05
NOV			MAY		
10...	1300	12.32	19...	1652	10.82
DEC			JUL		
03...	1045	12.24	15...	0917	11.36
JAN			AUG		
11...	0900	11.72	26...	1050	10.08
FEB			SEP		
05...	0910	11.70	13...	1446	11.65
MAR			30...	1205	11.24
01...	0930	11.82			

## WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

## PINELLAS COUNTY

**WELL NUMBER.--280614082411703. East Lake Shallow Well 2A near Oldsmar, FL.**

LOCATION.--Lat 28°06'14", long 82°41'17", in NW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.27, T.27 S., R.16 E., Hydrologic Unit 03100206, 3.2 mi northeast of intersection State Highway 584 and East Lake Road, and 4.8 mi northwest of Oldsmar. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 110 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 9.7 ft, cased to 6.7 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 13.65 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.50 ft above land-surface datum.

REMARKS.--Record is equivalent to that for East Lake Shallow Well 2 near Oldsmar (280614082411702), available May 1976 to March 1985. Water level affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--March 1985 to current year (periodic). The figures of water level as elevation, in feet NGVD, prior to Oct. 1, 1988, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of -0.85 ft.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.40 ft NGVD, Aug. 2, 1991; lowest measured, 8.61 ft NGVD, June 7, 1985.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAR		
05...	1230	13.24	01...	0937	12.15
NOV			APR		
10...	1304	12.05	08...	1013	12.54
DEC			JUL		
03...	1049	11.89	15...	0933	11.11
JAN			AUG		
11...	0905	11.90	26...	1100	9.42
FEB			SEP		
05...	0916	11.95	30...	1210	10.47

## WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

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## PINELLAS COUNTY

**WELL NUMBER.--280617082405702. East Lake Shallow Well 5 near Oldsmar, FL.**

LOCATION.--Lat 28°06'17", long 82°40'57", in NW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.26, T.27 S., R.16 E., Hydrologic Unit 03100206, 3.5 mi northeast of intersection State Highway 584 and East Lake Road, and 4.7 mi northwest of Oldsmar. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 110 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 12 ft, cased to 9 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 14.12 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of male adaptor, 3.10 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--May 1976 to current year (periodic). Records of water levels prior to October 1979 are available in files of the Geological Survey. The figures of water level as elevation, in feet NGVD, prior to Oct. 1, 1988, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of +1.12 ft.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.20 ft NGVD, Aug. 2, 1991; lowest measured, 8.82 ft NGVD, June 7, 1985.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAR		
05...	1111	13.59	01...	0900	13.13
NOV			APR		
10...	1415	12.74	08...	0908	13.10
DEC			JUL		
03...	1000	12.87	15...	0826	12.84
JAN			AUG		
11...	0830	13.00	26...	1012	11.52
FEB			SEP		
05...	0830	12.93	30...	1115	12.63

## WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

## PINELLAS COUNTY

**WELL NUMBER.--280631082411702. East Lake Shallow Well 1 near Oldsmar, FL.**

LOCATION.--Lat 28°06'31", long 82°41'17", in SW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.27, T.27 S., R.16 E., Hydrologic Unit 03100206, 3.6 mi northeast of intersection State Highway 584 and East Lake Road, and 5.1 mi northwest of Oldsmar. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 110 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 12 ft, cased to 10 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 14.98 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 1.40 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--May 1976 to current year (periodic). Records of water levels prior to October 1979 are available in files of the Geological Survey. The figures of water level as elevation, in feet NGVD, prior to Oct. 1, 1988, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of +1.38 ft.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.83 ft NGVD, Aug. 2, 1991; lowest measured, 8.81 ft NGVD, June 7, 1985.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAR		
05...	1245	13.58	01...	0939	12.81
NOV			APR		
10...	1308	12.30	08...	1003	12.40
DEC			JUL		
03...	1055	12.41	15...	0926	11.19
JAN			AUG		
11...	0910	12.33	26...	1120	9.41
FEB			SEP		
05...	0922	12.38	30...	1217	11.18

## WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

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## PINELLAS COUNTY

**WELL NUMBER.--280631082454601. N. W. Pinellas Injection Monitor Shallow Well near Tarpon Springs, FL.**

LOCATION.--Lat 28°06'31", long 82°45'46", in SW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.25, T.27 S., R.15 E., Hydrologic Unit 03100207, 0.4 mi east of Alternate U. S. Highway 19, and 2.6 mi south of Tarpon Springs. Owner: U. S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 12 ft, cased to 8 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 12.38 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of adaptor, 1.60 ft above land-surface datum.

REMARKS.--Water level affected by spray irrigation of area around well.

PERIOD OF RECORD.--May 1974 to September 1987; October 1987 to current year (periodic). Records of water levels prior to October 1975 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.70 ft NGVD, Mar. 8, 1989; lowest daily maximum water level, 1.32 ft NGVD, June 30, 1977.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAR		
05...	1345	7.01	01...	1105	5.02
NOV			APR		
10...	1345	4.69	08...	1106	4.92
DEC			JUL		
03...	1125	4.02	15...	1030	3.99
JAN			AUG		
11...	0945	4.44	26...	1250	3.21
FEB			SEP		
05...	1007	4.70	30...	1332	3.63

## WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

## PINELLAS COUNTY

**WELL NUMBER.--280632082455001. N. W. Pinellas Injection Monitor Deep Well near Tarpon Springs, FL.**

LOCATION.--Lat 28°06'32", long 82°45'50", in SW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.25, T.27 S., R.15 E., Hydrologic Unit 03100207, 0.4 mi east of Alternate U. S. Highway 19, and 2.6 mi south of Tarpon Springs. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 96 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 17.00 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of flange, 0.54 ft above land-surface datum.

PERIOD OF RECORD.--April 1976 to September 1988; October 1988 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 6.52 ft NGVD, Sept. 11, 1988; lowest, 1.20 ft NGVD, Apr. 11, 1977.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
05...	1330	4.84	08...	1100	3.27
NOV			MAY		
10...	1340	3.12	19...	1500	2.21
DEC			JUL		
03...	1120	2.56	15...	1015	2.45
JAN			AUG		
11...	0940	2.51	26...	1245	2.32
FEB			SEP		
05...	1000	3.10	13...	1618	2.60
MAR			30...	1325	2.47
01...	1100	3.34			

## PINELLAS COUNTY

**WELL NUMBER.--280734082442101. ROMP TR 15-3 Deep Well near Tarpon Springs, FL.**

LOCATION.--Lat 28°07'34", long 82°44'21", in NW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.19, T.27 S., R.16 E., Hydrologic Unit 03100207, 400 ft east of U. S. 19, and 1.4 mi south of Tarpon Springs. Owner: Southwest Florida Water Management District.

AQUIFER.--Tampa limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 150 ft, cased to 147 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 25.02 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.40 ft above land-surface datum.

REMARKS.--Water level affected by tidal fluctuations.

PERIOD OF RECORD.--April 1978 to April 1990; January 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 6.80 ft NGVD, estimated, Sept. 9, 1988; lowest, 2.88 ft NGVD, June 10, 11, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.09	5.16	4.91	4.72	5.12	4.71	4.94	4.68	4.69	4.56	4.33	4.79
10	5.72	5.04	5.28	---	4.91	4.53	4.84	4.59	4.35	4.40	4.12	4.92
15	5.38	4.44	4.80	4.82	4.70	3.64	4.76	4.47	4.37	---	4.57	5.00
20	5.02	5.17	4.82	4.97	4.49	4.35	4.72	4.89	4.75	---	4.39	5.00
25	5.44	5.31	4.92	4.56	4.56	4.48	---	4.78	4.40	---	4.28	4.89
EOM	5.12	4.72	4.52	4.55	5.40	4.84	4.52	4.76	4.63	---	4.74	4.63
MAX	6.31	---	5.28	---	5.40	6.52	---	5.02	---	---	---	5.08

**WELL NUMBER.--280747082452001. ROMP TR 15-2 Deep Well near Tarpon Springs, FL.**

LOCATION.--Lat 28°07'47", long 82°45'20", in NE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.24, T.27 S., R.15 E., Hydrologic Unit 03100207, 30 ft north of Curlew Place, 400 ft east of U. S. Alternate Highway 19, and 1.1 mi south of Tarpon Springs. Owner: Southwest Florida Water Management District.

AQUIFER.--Tampa limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 54 ft, cased to 50 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 12.98 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of shelter floor, 3.30 ft above land-surface datum.

PERIOD OF RECORD.--April 1978 to September 1981; October 1981 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 4.67 ft NGVD, Sept. 29, 30, 1979; lowest measured, 2.04 ft NGVD, May 19, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
13...	1545	4.43	19...	1510	2.71
NOV			JUN		
30...	1530	3.23	24...	1200	2.40
JAN			AUG		
11...	1405	2.91	10...	0845	2.44
APR			SEP		
29...	1519	2.89	13...	1549	3.52

## PINELLAS COUNTY

**WELL NUMBER.--280753082465201. ROMP TR 15-1 Deep Well near Tarpon Springs, FL.**

LOCATION.--Lat 28°07'53", long 82°46'52", in NW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.14, T.27 S., R.15 E., Hydrologic Unit 03100207, 70 ft south of Castleworks Lane, 200 ft east of Florida Avenue, and 1.7 mi southwest of Tarpon Springs. Owner: Southwest Florida Water Management District.

AQUIFER.--Tampa limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 87 ft, cased to 68 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 8.15 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of shelter floor, 2.40 ft above land-surface datum.

REMARKS.--Water level affected by tidal fluctuations.

PERIOD OF RECORD.--April 1978 to April 1990; May 1990 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 5.08 ft NGVD, Sept. 9, 1988; lowest, 1.44 ft NGVD, June 11, 1985.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
13...	1530	3.59	19...	1525	2.20
NOV			JUN		
30...	1525	2.58	24...	1230	2.15
JAN			AUG		
11...	1355	2.48	10...	0910	1.97
APR			SEP		
29...	1530	2.26	13...	1602	2.75

**WELL NUMBER.--280852082414301. North Lake Tarpon Well near Tarpon Springs, FL.**

LOCATION.--Lat 28°08'52", long 82°41'43", in NW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.10, T.27 S., R.16 E., Hydrologic Unit 03100207, at junction State Highway 582 and County Road 77, and 3.5 mi east of Tarpon Springs. Owner: Unknown.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 780 ft, cased to 758 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 47.43 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of shelter floor, 2.70 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby public supply wells. Well also sampled for water quality.

PERIOD OF RECORD.--March 1967 to current year (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.21 ft NGVD, Sept. 15, 1986; lowest measured, 7.93 ft NGVD, June 11, 1985.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			JUN		
14...	1030	13.93	24...	1000	11.01
DEC			AUG		
01...	1010	13.19	26...	1200	9.75
JAN			SEP		
12...	1030	12.85	13...	1428	11.90
APR			30...	1240	11.48
29...	1308	12.43			
MAY					
19...	1640	11.24			

## PINELLAS COUNTY

**WELL NUMBER.--280907082424801. Tarpon Road Deep Well near Tarpon Springs, FL.**

LOCATION.--Lat 28°09'07", long 82°42'48", in SW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.9, T.27 S., R.16 E., Hydrologic Unit 03100207, 25 ft north of State Highway 582, and 2.6 mi east of Tarpon Springs. Owner: U. S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 305 ft, cased to 205 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 21.77 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.23 ft above land-surface datum.

REMARKS.--Water level affected by tidal fluctuations.

PERIOD OF RECORD.--July 1965 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 13.06 ft NGVD, Sept. 15, 1971; lowest, 8.13 ft NGVD, May 20, 1990.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.78	10.63	10.69	10.24	10.29	10.59	10.80	10.12	9.80	9.79	9.04	10.00
10	11.59	10.63	10.66	10.36	10.18	10.42	10.72	9.94	9.42	9.66	8.74	10.17
15	11.15	10.50	10.43	10.45	10.13	---	10.79	9.92	9.48	9.66	9.16	10.42
20	10.90	10.75	10.43	10.48	10.09	---	10.72	9.79	9.32	9.50	9.23	10.29
25	10.84	10.67	10.30	10.47	10.25	10.63	10.14	9.40	9.62	9.41	9.01	9.90
EOM	11.00	10.67	10.10	10.34	10.22	10.57	10.25	10.09	9.92	---	9.94	9.84
MAX	11.82	11.12	10.79	10.61	10.53	---	10.84	10.23	10.02	---	---	10.44

**WELL NUMBER.--280907082424802. Tarpon Road Shallow Well near Tarpon Springs, FL.**

LOCATION.--Lat 28°09'07", long 82°42'48", in SW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.9, T.27 S., R.16 E., Hydrologic Unit 03100207, 25 ft north of State Highway 582, and 2.6 mi east of Tarpon Springs. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 1.25 in., depth 12 ft, cased to 10 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 21.48 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--November 1965 to current year (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.93 ft NGVD, Sept. 15, 1971; well observed dry at times some years.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
14...	1125	10.95	29...	1354	11.76
DEC			JUN		
01...	1045	11.44	24...	1045	11.48
JAN			AUG		
12...	0955	11.50	10...	0808	10.96

**WELL NUMBER.--281022082400201. Eldridge-Wilde Deep Well N3 near Tarpon Springs, FL.**

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

**INSTRUMENTATION.**--Water-stage recorder--60-minute interval.

REMARKS.--Water level affected by pumping of nearby public supply wells.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 23.47 ft NGVD, Apr. 3, 1987; lowest, 5.54 ft NGVD, Feb. 25, 1991.

[illegible]

MISCELLANEOUS WATER LEVEL MEASUREMENTS  
OCTOBER 1992 TO SEPTEMBER 1993

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PINELLAS COUNTY

STATION NUMBER	STATION NAME	DATE	ELEV- ATION ABOVE NGVD (FEET)
273655082440901	FT DE SOTO PARK NR PASS-A-GRILLE BEACH	05-18-93	10.60
		09-14-93	12.51
274323082374301	COQUINA KEY ARMS APT NR ST PETERSBURG	05-18-93	8.88
		09-14-93	10.92
274614082425205	WELL NUMBER B5 BEAR CR INJ MONITOR 300	05-18-93	9.15
		09-15-93	11.72
274624082383701	WELL 7462382437 MIRROR LK CTY WELL NR GULFPORT	05-18-93	7.68
		09-14-93	10.12
274754082473201	F. JOHNSON WELL AT MADERIA BEACH, FL	05-18-93	7.78
		09-14-93	9.63
274848082461201	WARVETSMEMPKDPWELL 1 NR MADEIRA BEACH	05-18-93	5.15
		09-14-93	7.60
274859082390701	ROBERTS COMM CTR DP NR LEALMAN	05-18-93	6.41
		09-14-93	8.62
274904082423601	NO. 749242344 114 NR LEALMAN	05-18-93	9.46
		09-14-93	11.78
274929082443504	SCB A4	05-18-93	17.60
		09-14-93	20.00
274937082480801	TIDES GOLF DP WELL NR PINELLAS PARK	05-19-93	6.54
		09-15-93	8.62
275022082494001	HOLLY DP WELL WELL NR PINELLAS PARK	05-18-93	6.14
		09-15-93	8.60
275121082412601	TAMERAK DP WELL NR PINELLAS PARK	05-18-93	6.14
		09-15-93	8.20
275137082382701	KOGER DEEP AT ST. PETE, FL	05-18-93	3.42
		09-15-93	4.73
275241082503901	MK C1 NR INDIAN ROCKS BEACH	05-18-93	5.82
		09-17-93	9.83
275430082460701	EAST BAY COUNTRY CLUB NR LARGO, FL 211 30S15E02	05-19-93	6.24
		09-15-93	8.27
275521082444301	ST CATHERINE DP WELL NR HIGH POINT	09-15-93	6.72
275604082431701	COVE CAY DP WELL NR HIGH POINT	05-19-93	4.92
		09-15-93	6.82
275753082435301	CLE-DUN D. WELL 31 NR CLEARWATER, FL	05-19-93	5.98
		09-15-93	7.49
275842082430301	MISSION HILLS NR SAFETY HARBOR, FL	05-19-93	11.46
		09-16-93	12.54
275949082442401	SYL ABBEY DP WELL #3 NR SAFETY HARBOR	05-19-93	7.90
		09-16-93	10.12
280002082412602	ROMP TR14-1 TAMP WELL NR SAFETY HARBOR, FL	05-19-93	8.08
		09-15-93	9.88
280129082445501	SWFWMD 6" TEST WELL #1 AT DUNEDIN, FL	05-19-93	6.59
		09-15-93	8.13

MISCELLANEOUS WATER LEVEL MEASUREMENTS  
OCTOBER 1992 TO SEPTEMBER 1993

PINELLAS COUNTY

STATION NUMBER	STATION NAME	DATE	ELEV- ATION ABOVE NGVD (FEET)
280134082454801	DUNEDIN #10A AT DUNEDIN	05-19-93	4.23
		09-15-93	6.31
280254082441602	CLE-DUN D. WELL 17 NR DUNEDIN, FL	05-19-93	8.53
		09-15-93	9.67
280618082454001	PINCO NWSTP 31	12-08-92	2.21
		05-11-93	1.95
		07-13-93	2.06
		09-15-93	2.19
280629082454204	INNISBROOK 20D NEAR TARPON SRRINGS, FL	12-08-92	7.67
		05-11-93	4.18
		07-13-93	5.35
		09-15-93	5.51
280629082454205	INNISBROOK 20E NEAR TARPON SPRINGS, FL	12-08-92	3.22
		05-11-93	4.47
		07-13-93	4.73
		09-15-93	5.23
280634082453405	INNISBROOK 3434.5 144 27S15E25 NR CRYSTAL BEACH	12-08-92	4.25
		05-12-93	3.57
		07-14-93	3.32
		09-14-93	3.98
280942082390601	PINELLAS S. WELL N1A NR TARPON SGS.	05-17-93	6.47
		09-13-93	10.60

## WATER QUALITY DATA, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

## PINELLAS COUNTY

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	DENSITY (GM/ML AT 20 C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
274912082441001 South Cross Bayou S-9 (Volkorez Residence) (LAT 27 49 12N LONG 082 44 10W)						
MAY 1993						
03...	1020	731	24.0	23.5	0.999	40
SEP						
01...	0925	769	29.0	24.5	0.999	44
274929082443503 SCB A3 (LAT 27 49 29N LONG 082 44 35W)						
MAY 1993						
03...	0940	35900	25.0	26.0	1.016	12000
SEP						
01...	0910	32200	30.0	26.0	1.010	11000
274929082443504 SCB A4 (LAT 27 49 29N LONG 082 44 35W)						
MAY 1993						
03...	0950	11300	25.0	25.0	1.003	3400
SEP						
01...	0900	11300	30.0	25.5	1.000	3600
275241082503901 MK C1 NR INDIAN ROCKS BEACH (LAT 27 52 41N LONG 082 50 39W)						
MAY 1993						
03...	1145	1020	25.0	24.0	0.999	200
275242082503901 MCKAY CREEK WELLD1 AT INDIAN ROCKS BEACH , FL (LAT 27 52 42N LONG 082 50 39W)						
MAY 1993						
03...	1230	4630	25.0	27.5	1.000	1200
275242082503902 MCKAY CREEK WELL D0 AT INDIAN ROCKS BEACH, FL (LAT 27 52 42N LONG 082 50 39W)						
MAY 1993						
03...	1305	7170	25.0	24.5	1.001	2300
280852082414301 NORTH LAKE TARPON (LAT 28 08 52N LONG 082 41 43W)						
OCT 1992						
14...	1030	46100	27.5	24.5	--	17000
DEC						
01...	1010	46000	14.0	24.0	--	17000
JAN 1993						
12...	1030	46100	27.0	24.5	--	17000
APR						
29...	1308	44700	--	24.5	--	17000
JUN						
24...	1000	44700	--	25.0	--	17000
AUG						
26...	1200	46000	--	24.5	--	17000
SEP						
30...	1300	46200	31.5	25.0	--	17000

## QUALITY OF GROUND WATER

## WATER QUALITY DATA, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

## PINELLAS COUNTY

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY PER (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML)	CALCIUM DIS- SOLVED (MG/L AS CA)
280618082454001 PINCO NWSTP 31 (LAT 28 06 18N LONG 082 45 40W)											
DEC 1992											
08...	0800	174	5.0	19.5	24.5	<10	0.7	<1	<1	K3	7.2
MAY 1993											
11...	0855	151	4.2	24.0	24.0	17	0.5	<1	<1	<1	9.4
JUL											
13...	0831	149	4.4	28.5	24.0	<10	1.5	66	<1	K1	10
SEP											
15...	0905	164	4.5	27.0	25.0	<10	<1.0	<1	<1	K2	10
280629082454204 INNISBROOK 20D NEAR TARPON SPRINGS, FL (LAT 28 06 29N LONG 082 45 42W)											
DEC 1992											
08...	0915	906	6.1	21.0	22.0	15	1.0	<1	<1	K3	58
MAY 1993											
11...	0945	942	6.5	27.0	22.0	27	0.7	<1	<1	<1	63
JUL											
13...	0930	867	6.4	29.0	25.0	35	2.2	K10	<1	<1	55
SEP											
15...	1010	1160	6.1	29.0	27.5	10	0.1	<1	<1	<1	79
280629082454205 INNISBROOK 20E NEAR TARPON SPRINGS, FL (LAT 28 06 29N LONG 082 45 42W)											
DEC 1992											
08...	1005	850	7.0	19.0	23.5	<10	0.5	K1	K1	K8	69
MAY 1993											
11...	1030	1020	6.9	27.0	22.0	31	8.5	<1	<1	<1	79
JUL											
13...	1000	1020	7.0	31.0	24.5	<10	2.6	21	<1	<1	75
SEP											
15...	1110	1070	6.8	29.0	25.5	15	0.1	<1	<1	<1	87
280634082453405 INNISBROOK 3434.5 144 27S15E25 NR CRYSTAL BEAC (LAT 28 06 34N LONG 082 45 34W)											
DEC 1992											
08...	1114	945	5.9	19.5	24.5	30	0.4	<1	<1	K14	41
MAY 1993											
12...	1001	732	5.9	28.0	22.0	25	0.3	<1	<1	K1	26
JUL											
14...	1110	689	5.9	32.5	24.0	33	0.2	<1	<1	K2	28
SEP											
14...	1027	1250	6.0	30.0	25.0	28	0.3	43	<1	K5	46
280647082461401 PINCO NWST 811 HARRY (LAT 28 06 47N LONG 082 46 14W)											
MAY 1993											
12...	0920	416	6.6	23.0	24.0	<10	0.1	<1	<1	<1	60
JUL											
14...	0945	436	6.4	28.5	26.5	<10	<0.1	<1	<1	<1	68
SEP											
14...	0945	423	6.4	28.5	26.5	<10	<1.0	<1	<1	K13	58

# QUALITY OF GROUND WATER

167

## WATER QUALITY DATA, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

### PINELLAS COUNTY

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS ORTHOPHOSPHATE TOTAL (MG/L AS P)	PHOS- PHORUS ORTHOPHOSPHATE TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	SELE- NIUM, TOTAL (UG/L AS SE)
280618082454001 PINCO NWSTP 31 (LAT 28 06 18N LONG 082 45 40W)											
DEC 1992											
08...	0.62	12	1.3	<0.010	0.060	0.020	<0.20	<0.020	0.010	<1	<1
MAY 1993											
11...	0.78	6.2	0.51	<0.010	4.10	0.020	0.31	<0.020	0.010	<1	<1
JUL											
13...	1.1	7.0	2.1	<0.010	3.60	0.290	0.60	0.030	<0.010	<1	<1
SEP											
15...	0.86	7.4	0.99	<0.010	5.80	0.020	0.27	0.060	0.010	<1	<1
280629082454204 INNISBROOK 20D NEAR TARPON SRRINGS, FL (LAT 28 06 29N LONG 082 45 42W)											
DEC 1992											
08...	3.4	110	9.5	<0.010	1.30	0.080	0.73	1.70	1.70	2	<1
MAY 1993											
11...	4.6	120	12	<0.010	<0.020	0.090	0.62	1.70	1.80	1	<1
JUL											
13...	4.4	110	14	<0.010	0.140	0.110	0.38	2.10	1.80	2	<1
SEP											
15...	6.0	150	16	0.020	1.40	0.030	0.52	2.20	2.20	3	<1
280629082454205 INNISBROOK 20E NEAR TARPON SPRINGS, FL (LAT 28 06 29N LONG 082 45 42W)											
DEC 1992											
08...	4.7	84	10	<0.010	0.090	0.990	1.4	1.00	0.850	4	<1
MAY 1993											
11...	6.3	110	12	<0.010	<0.020	1.30	2.0	2.90	2.70	1	<1
JUL											
13...	6.4	110	12	<0.010	<0.020	1.20	1.8	1.90	1.90	3	<1
SEP											
15...	6.3	120	13	0.010	0.090	1.20	1.6	1.60	0.960	4	<1
280634082453405 INNISBROOK 3434.5 144 27S15E25 NR CRYSTAL BEAC(LAT 28 06 34N LONG 082 45 34W)											
DEC 1992											
08...	6.7	120	12	0.080	3.00	0.100	0.85	0.020	0.010	1	<1
MAY 1993											
12...	5.1	93	12	0.140	1.90	<0.010	0.47	0.040	0.050	4	<1
JUL											
14...	4.1	84	11	0.170	0.880	0.010	0.63	0.100	0.030	2	<1
SEP											
14...	7.0	180	16	0.010	0.050	0.050	0.68	0.020	0.020	1	<1
280647082461401 PINCO NWST 811 HARRY (LAT 28 06 47N LONG 082 46 14W)											
MAY 1993											
12...	4.5	11	1.1	<0.010	0.960	<0.010	<0.20	0.020	0.030	<1	<1
JUL											
14...	6.4	20	1.3	0.010	1.40	0.010	<0.20	0.040	0.010	<1	1
SEP											
14...	4.4	13	1.0	<0.020	0.980	0.020	<0.20	0.050	0.030	<1	<1

**WATER RESOURCES DATA FOR FLORIDA, 1993**  
**Volume 3B: Southwest Florida Ground Water**

KEY TO SITE LOCATIONS ON FIGURE 20

POLK COUNTY

INDEX NUMBER	SITE NUMBER	PAGE NUMBER
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6	274545081342501	172
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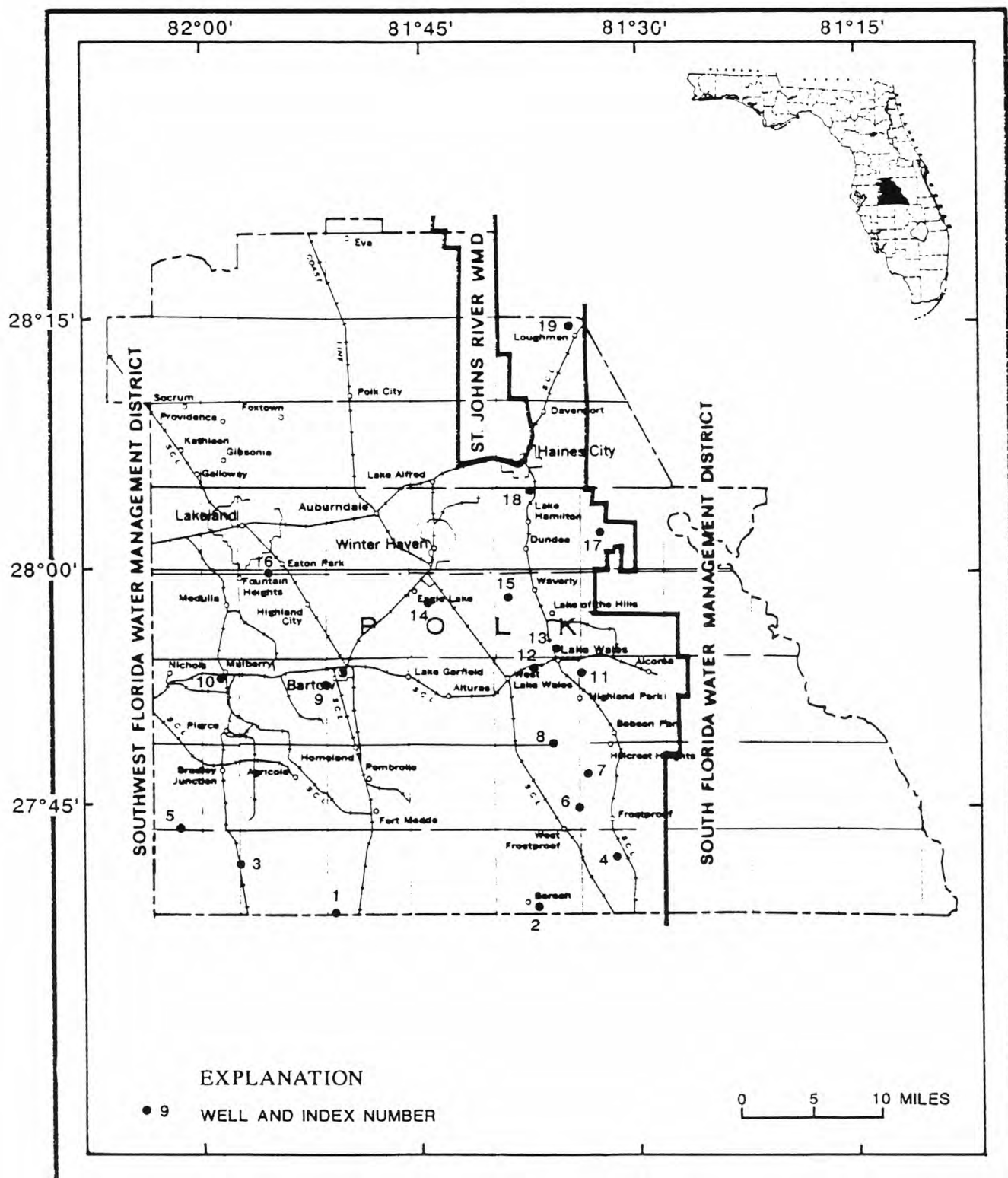


Figure 20.-- Location of wells in Polk County.

## POLK COUNTY

**WELL NUMBER.--273849081511101. Maddox Well near Bowling Green, FL.**

LOCATION.--Lat 27°38'49", long 81°51'11", in SE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.31, T.32 S., R.25 E., Hydrologic Unit 03100101, 450 ft north of Polk-Hardee County Line Road, and 1.7 mi west of Bowling Green. Owner: C. Maddox.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused irrigation, artesian well, diameter 8 in., depth 737 ft, cased to 50 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 117.47 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of recorder shelter floor, 3.06 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby industrial and irrigation wells.

PERIOD OF RECORD.--March 1963 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 75.91 ft NGVD, Mar. 10, 1964; lowest, 23.71 ft NGVD, May 9, 1975.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	68.46	62.61	64.13	65.00	68.35	69.60	69.85	67.59	59.62	60.73	---	---
10	69.08	62.26	64.40	64.54	68.29	69.31	70.83	66.36	58.25	61.62	---	---
15	69.47	61.24	64.89	65.23	69.12	68.25	71.15	63.37	57.43	62.61	---	---
20	68.94	61.07	64.84	66.68	68.44	67.58	71.33	61.28	56.39	63.29	---	---
25	67.46	62.49	64.87	67.05	68.60	68.31	71.19	58.98	57.08	62.99	---	---
EOM	64.58	63.85	64.01	67.98	69.28	69.68	69.36	58.18	58.83	---	---	---
MAX	69.76	64.54	65.06	67.98	69.28	69.95	71.38	68.72	60.12	---	---	---

**WELL NUMBER.--273929081363801. Altman Deep Well near Avon Park, FL.**

LOCATION.--Lat 27°39'29", long 81°36'38", in NW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.34, T.32 S., R.27 E., Hydrologic Unit 03100101, 0.5 mi north of Hardee-Polk County line, and 11 mi northwest of Avon Park. Owner: Unknown.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, irrigation, artesian well, diameter 6 in., depth 700 ft, cased to 80 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 128.80 ft above National Geodetic Vertical Datum of 1929. Measuring point: Hole is south side of casing, 0.20 ft above land-surface datum.

PERIOD OF RECORD.--July 1970 to January 1985 (periodic); October 1991 to September 1992 (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 89.28 ft NGVD, Mar. 11, 1983; lowest measured, 60.64 ft NGVD, May 6, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			JUL		
07...	1550	86.06	14...	1330	80.30
DEC			SEP		
10...	0850	83.81	15...	1620	83.07
JAN					
19...	1110	83.37			

## POLK COUNTY

**WELL NUMBER.--274155081573201. Fort Green Springs Road Well near Bradley Junction, FL.**

LOCATION.--Lat 27°41'55", long 81°57'32", in SE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.13, T.32 S., R.23 E., Hydrologic Unit 03100101, 3.0 mi south of Brewster on Fort Green Springs Road, and 3.0 mi south of Bradley Junction. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 302 ft, cased to 280 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 134.48 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of 8 in. casing extension, 2.45 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby industrial wells.

PERIOD OF RECORD.--August 1964 to current year (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 72.76 ft NGVD, Oct. 1, 1964; lowest measured, 25.76 ft NGVD, May 14, 1975.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV - ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV - ATION ABOVE NGVD (FEET)
OCT			JUN		
08...	0900	68.40	04...	1015	59.20
DEC			JUL		
09...	1415	64.06	02...	1029	58.94
JAN			AUG		
25...	1405	67.05	20...	1230	63.42
APR			SEP		
22...	1650	71.04	16...	1630	67.80
MAY					
18...	1719	62.56			

**WELL NUMBER.--274225081315201. USGS Shallow Well P-48 near Frostproof, FL.**

LOCATION.--Lat 27°42'26", long 81°31'52", in SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.9, T.32 S., R.28 E., Hydrologic Unit 03090101, 60 ft east of Alternate U. S. Highway 27, and 2.7 mi south of Frostproof. Owner: U. S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 62 ft, cased to 59 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 144.31 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.15 ft above land-surface datum.

PERIOD OF RECORD.--October 1948 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey. Prior to Oct. 1, 1977, published as USGS Observation Well P48 near Lake Wales.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 106.23 ft NGVD, Oct. 7, 1948; lowest, 96.16 ft NGVD, May 30, 1982.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	98.74	98.55	98.22	97.85	98.40	98.16	98.39	98.45	98.61	98.72	98.48	98.27
10	98.68	98.46	98.37	97.84	98.39	98.10	98.38	98.42	98.80	98.76	98.48	98.31
15	98.62	98.43	98.08	98.06	98.35	98.27	98.34	98.42	98.84	98.84	98.50	98.30
20	98.58	98.35	98.01	98.20	98.30	98.38	98.38	98.37	98.82	98.67	98.47	98.22
25	98.65	98.31	97.95	98.30	98.23	98.38	98.34	98.32	98.81	98.59	98.48	98.13
EOM	98.54	98.27	97.91	98.38	98.21	98.31	98.42	98.50	98.76	98.51	98.37	98.03
MAX	98.77	98.55	98.37	98.38	98.41	98.54	98.42	98.52	98.85	98.84	98.52	98.34

CAL YR 1992 MAX 99.13

WTR YR 1993 MAX 98.85

## POLK COUNTY

**WELL NUMBER.--274409082015001. Bethlehem Road Deep Well near Bradley Junction, FL.**

LOCATION.--Lat 27°44'09", long 82°01'50", in SW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.32, T.31 S., R.23 E., Hydrologic Unit 03100204, 0.4 mi north of Bethlehem Road, and 6.0 mi southwest of Bradley Junction. Owner: American Cyanamid.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused irrigation, artesian well, diameter 12 in., depth 1,000 ft, cased to 100 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 124.50 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 0.33 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby industrial and irrigation wells.

PERIOD OF RECORD.--September 1972 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 64.74 ft NGVD, Oct. 3, 1982; lowest, 16.60 ft NGVD, May 9, 1975.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	55.69	49.68	49.89	50.36	54.87	56.39	56.71	54.68	44.97	47.62	52.47	53.97
10	55.95	48.90	50.67	50.68	55.56	56.72	57.50	52.85	44.53	48.99	52.67	55.19
15	56.67	47.34	50.53	51.46	55.58	54.90	57.18	51.13	44.59	49.95	51.43	55.93
20	55.85	47.93	51.20	52.86	55.53	54.32	58.00	48.91	43.48	50.78	51.85	57.07
25	54.74	48.18	51.42	53.76	55.58	55.33	56.84	45.29	43.76	51.24	52.08	57.22
EOM	52.05	50.36	50.47	54.33	55.88	55.99	55.51	44.82	46.10	51.41	52.47	56.65
MAX	56.67	51.41	51.73	54.33	55.88	56.89	58.09	55.44	46.10	51.47	52.83	57.45

WTR YR 1993 MAX 58.09

**WELL NUMBER.--274545081342501. ROMP CL-3 FLRD Well near Frostproof, FL.**

LOCATION.--Lat 27°45'45", long 81°34'25", in NE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.25, T.31 S., R.27 E., Hydrologic Unit 03090101, 0.5 mi north of State Road 630A, 1.0 mi east of U. S. Highway 27, and 2.7 mi west of Frostproof. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 10 in., depth 440 ft, cased to 228 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 123.03 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of recorder shelter floor, 2.03 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby irrigation wells. Highest daily maximum water level of 93.43 ft NGVD on July 12, 1991, was recorded during surge caused by a major sinkhole development within 100 ft of well.

PERIOD OF RECORD.--October 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, other than July 12, 1991 (see REMARKS), 86.86 ft NGVD, Apr. 20, 21, 1993; lowest, 62.74 ft NGVD, May 27, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	85.44	75.83	83.20	82.10	85.87	86.21	86.58	79.58	77.54	80.54	82.14	83.13
10	85.94	77.97	82.57	81.77	85.70	85.66	86.75	78.99	73.05	81.76	79.39	84.09
15	85.92	78.67	83.64	83.99	85.71	84.72	86.39	76.02	72.95	82.67	75.95	84.77
20	85.39	79.47	83.50	84.48	84.36	84.17	86.86	74.21	72.64	82.95	77.94	85.38
25	81.78	81.21	82.49	85.31	85.52	85.24	85.98	72.95	73.26	82.15	79.27	84.19
EOM	78.62	82.37	78.74	85.94	85.56	85.45	81.52	75.29	78.52	82.44	82.18	84.35
MAX	86.30	82.64	83.70	85.94	86.26	86.35	86.86	81.35	78.52	83.22	82.90	85.38

CAL YR 1992 MAX 86.30

WTR YR 1993 MAX 86.86

## POLK COUNTY

**WELL NUMBER.--274545081342503. ROMP CL-3 NRSD Well near Frostproof, FL.**

LOCATION.--Lat 27°45'45", long 81°34'25", in NE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.25, T.31 S., R.27 E., Hydrologic Unit 03090101, 0.5 mi north of State Road 630A, 1.0 mi east of U. S. Highway 27, and 2.7 mi west of Frostproof. Owner: Southwest Florida Water Management District.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 50 ft, cased to 20 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 123.31 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of recorder shelter floor, 3.10 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby irrigation wells.

PERIOD OF RECORD.--October 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 118.15 ft NGVD, Aug. 30, 1992; lowest, 115.26 ft NGVD, May 18, 1991.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	117.20	116.69	117.01	116.76	117.00	117.00	117.44	116.79	116.35	116.95	116.73	116.64
10	117.10	116.63	117.05	116.94	117.01	116.90	117.27	116.67	116.20	117.29	116.57	116.86
15	117.01	116.62	116.92	117.37	116.96	117.46	117.37	116.58	116.11	117.15	116.42	116.80
20	116.92	116.59	116.87	117.31	116.91	117.29	117.22	116.48	115.98	116.95	116.39	116.72
25	116.85	117.37	116.81	117.19	116.91	117.22	117.01	116.34	116.13	116.82	116.62	116.60
EOM	116.76	117.12	116.78	116.94	117.00	117.07	116.91	116.49	116.82	116.88	116.73	116.51
MAX	117.24	117.37	117.10	117.47	117.06	117.64	117.44	116.88	116.82	117.29	116.88	116.86

CAL YR 1992 MAX 118.15

WTR YR 1993 MAX 117.64

**WELL NUMBER.--274730081333801. ROMP 55 FLRD Well near Babson Park, FL.**

LOCATION.--Lat 27°47'30", long 81°33'38", in NW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.18, T.31 S., R.28 E., Hydrologic Unit 03090101, 300 ft southwest of Breezy Point Road, 2.5 mi west of Alternate U.S. Highway 27, and 7.3 mi southwest of Babson Park. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 10 in., depth 1,200 ft, cased to 212 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 121.50 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of recorder shelter floor, 2.3 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby irrigation wells.

PERIOD OF RECORD.--February 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 89.50 ft NGVD, Apr. 21, 1993; lowest, 67.06 ft NGVD, May 13, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	87.98	76.91	86.22	85.09	88.61	88.94	89.22	80.95	80.98	83.28	85.17	85.86
10	88.53	80.38	85.33	84.98	88.62	88.65	89.30	82.80	75.88	84.40	82.14	86.57
15	88.61	81.96	86.63	86.79	88.69	84.06	89.18	79.84	75.48	85.24	79.56	87.25
20	86.58	80.94	86.40	87.40	87.19	86.76	89.49	75.98	76.27	85.57	79.27	87.87
25	85.14	84.13	85.57	88.08	88.25	87.96	88.89	76.22	76.63	85.24	81.49	85.73
EOM	81.91	85.47	81.75	88.63	88.54	88.37	84.44	78.46	81.26	85.50	84.83	87.26
MAX	88.85	85.47	86.63	88.63	88.93	89.06	89.50	84.05	81.26	85.80	85.85	87.87

CAL YR 1992 MAX 88.85

WTR YR 1993 MAX 89.50

## POLK COUNTY

**WELL NUMBER.--274730081333802. ROMP 55 NRSD Well near Babson Park, FL.**

LOCATION.--Lat 27°47'30", long 81°33'38", in NW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.18, T.31 S., R.28 E., Hydrologic Unit 03090101, 300 ft southwest of Breezy Point Road, 2.5 mi west of Alternate U.S. Highway 27, and 7.3 mi southwest of Babson Park. Owner: Southwest Florida Water Management District.

AQUIFER.--Surficial aquifer of Quaternary Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 73 ft, cased to 23 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 121.59 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of recorder shelter floor, 1.1 ft above land-surface datum.

PERIOD OF RECORD.--November 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 116.85 ft NGVD, Aug. 21, 1992; lowest, 114.54 ft NGVD, May 16, 17, 1990, May 14, 15, 16, 1991.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	116.34	116.01	116.18	115.94	116.19	116.07	116.25	116.10	115.97	115.91	116.06	115.78
10	116.27	115.98	116.14	115.97	116.16	116.04	116.15	116.05	115.88	116.16	115.97	115.87
15	116.20	115.97	116.09	116.25	116.13	116.35	116.19	116.01	115.84	116.16	115.91	115.87
20	116.12	115.96	116.04	116.31	116.10	116.28	116.24	115.98	115.77	116.09	115.84	115.82
25	116.08	116.22	116.01	116.22	116.07	116.22	116.18	115.92	115.77	116.06	115.83	115.73
EOM	116.04	116.22	115.97	116.23	116.08	116.15	116.14	116.05	115.90	116.10	115.84	115.69
MAX	116.34	116.26	116.32	116.36	116.23	116.38	116.25	116.13	116.05	116.18	116.11	115.88

WTR YR 1993 — MAX 116.38

**WELL NUMBER.--274926081355301. ROMP 44 Floridan Well near Babson Park, FL.**

LOCATION.--Lat 27°49'26", long 81°35'53", in SE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.34, T.30 S., R.27 E., Hydrologic Unit 03090101, 0.25 mi west of U. S. Highway 27, and 4.6 mi west of Babson Park. Owner: Southwest Florida Water Management District.

AQUIFER.--Upper Floridan aquifer of Oligocene and Eocene Age, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 10 in., depth 402 ft, cased to 232 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 132.83 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.55 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby wells.

PERIOD OF RECORD.--January 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 94.08 ft NGVD, Apr. 20, 1993; lowest, 72.63 ft NGVD, May 21, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	92.60	86.22	91.24	89.89	93.32	93.61	93.62	90.03	85.24	87.47	90.16	90.23
10	93.13	86.39	---	89.87	93.51	93.69	93.86	87.93	84.30	88.55	88.48	90.99
15	93.34	87.07	91.41	91.29	93.43	91.60	93.81	86.60	82.70	89.48	86.09	91.74
20	92.97	87.93	91.33	91.97	93.05	90.65	94.08	84.99	82.15	89.96	86.41	92.46
25	90.55	89.37	90.47	92.68	92.87	92.29	93.67	83.09	81.83	89.91	86.53	92.56
EOM	87.93	90.57	89.81	93.06	93.15	93.11	92.09	82.87	85.12	90.61	89.05	92.30
MAX	93.37	90.57	---	93.06	93.58	93.72	94.08	91.65	85.75	90.61	90.73	92.62

## POLK COUNTY

**WELL NUMBER.--274926081355302. ROMP 44 NRSD Well near Babson Park, FL.**

LOCATION.--Lat 27°49'26", long 81°35'53", in SE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.34, T.30 S., R.27 E., Hydrologic Unit 03090101, 0.25 mi west of U. S. Highway 27, and 4.6 mi west of Babson Park. Owner: Southwest Florida Water Management District.

AQUIFER.--Surficial aquifer of Quaternary Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 75 ft, cased to 25 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 132.94 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.37 ft above land-surface datum.

PERIOD OF RECORD.--January 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 130.25 ft NGVD, Aug. 21, 1992; lowest, 124.57 ft NGVD, May 23, 1990.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	129.50	127.99	128.26	---	128.14	128.29	128.90	127.94	127.33	127.82	127.61	127.50
10	128.98	127.90	128.35	---	128.00	127.98	128.55	127.56	126.89	128.45	127.36	127.55
15	128.76	128.08	128.06	---	127.87	128.51	128.53	127.43	126.57	128.09	127.13	---
20	128.51	127.88	127.94	128.34	127.78	128.35	128.32	127.23	126.24	127.70	127.06	127.53
25	128.36	128.92	127.82	128.23	127.92	128.63	128.02	126.95	126.85	127.96	127.72	127.24
EOM	128.14	128.50	127.74	128.38	128.14	128.22	127.79	127.74	127.92	128.04	127.91	---
MAX	129.62	128.92	128.44	---	128.34	128.71	128.90	127.94	128.02	128.70	127.95	---

CAL YR 1992 MAX 130.25

**WELL NUMBER.--275314081514201. ROMP 59 Avon Park Well at Bartow, FL.**

LOCATION.--Lat 27°53'14", long 81°51'42", in SE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.12, T.30 S., R.24 E., Hydrologic Unit 03100101, 950 ft west of State Highway 555, 0.6 mi south of State Highway 60, and 0.8 mi west of Bartow. Owner: Southwest Florida Water Management District.

AQUIFER.--Avon Park formation of Eocene Age, Geologic Unit 124 AVPK.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 12 in., depth 1,050 ft, cased to 200 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 117.41 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 4.39 ft above land-surface datum.

PERIOD OF RECORD.--February 1977 to current year. Prior to October 1979, published as Bartow Avon Park Well at Bartow.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 75.65 ft NGVD, Apr. 20, 1983; lowest, 33.33 ft NGVD, May 16, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	71.18	---	---	67.65	71.09	72.10	72.62	70.74	63.01	63.48	67.29	67.99
10	71.51	---	---	67.50	71.03	71.81	73.21	69.40	61.96	64.47	66.73	69.40
15	71.84	---	---	68.17	71.48	70.98	---	67.24	61.18	65.45	65.98	70.33
20	---	---	67.49	69.27	71.29	70.49	---	65.33	59.83	66.00	66.22	71.14
25	---	---	67.66	69.89	71.23	71.20	73.55	63.28	60.36	65.80	65.43	71.45
EOM	---	---	67.18	70.52	71.62	72.10	72.45	61.97	62.03	66.82	66.89	71.48
MAX	---	---	---	70.52	71.65	72.23	---	71.89	63.33	66.82	67.45	71.71

## POLK COUNTY

**WELL NUMBER.--275314081514202. ROMP 59 Hawthorn Well at Bartow, FL.**

LOCATION.--Lat 27°53'14", long 81°51'42", in SE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.12, T.30 S., R.24 E., Hydrologic Unit 03100101, 930 ft west of State Highway 555, 0.6 mi south of State Highway 60, and 0.8 mi west of Bartow. Owner: Southwest Florida Water Management District.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 142 ft, cased to 122 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 117.84 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--February 1977 to current year. Prior to October 1979, published as Bartow Hawthorn Well at Bartow.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 92.46 ft NGVD, Apr. 15, 16, 1983; lowest, 74.85 ft NGVD, June 15-18, 1977.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	86.91	87.06	85.78	85.60	85.73	86.24	87.52	88.28	86.15	84.99	86.01	85.72
10	87.06	86.81	85.71	85.59	85.85	---	87.91	88.06	85.94	---	86.03	85.91
15	87.18	86.55	85.68	85.52	85.94	---	88.17	87.82	85.74	85.12	86.00	86.12
20	87.27	86.28	85.64	85.50	86.01	---	88.28	87.42	85.40	85.64	85.92	86.37
25	87.31	86.07	85.61	85.55	86.08	84.18	88.36	86.94	85.12	85.81	85.78	86.58
EOM	87.27	85.91	85.61	85.63	86.14	86.85	88.37	86.39	85.06	85.96	85.69	86.75
MAX	87.31	87.24	85.88	85.63	86.14	---	88.39	88.36	86.35	---	86.03	86.75
CAL YR 1992 MAX 87.31												

**WELL NUMBER.--275314081514203. ROMP 59 Upper Hawthorn Well at Bartow, FL.**

LOCATION.--Lat 27°53'14", long 81°51'42", in SE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.12, T.30 S., R.24 E., Hydrologic Unit 03100101, 970 ft west of State Highway 555, 0.6 mi south of State Highway 60, and 0.8 mi west of Bartow. Owner: Southwest Florida Water Management District.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 60 ft, cased to 50 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 118.71 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of shelter floor, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--February 1977 to September 1979; October 1979 to current year (periodic). Prior to October 1979, published as Bartow Upper Hawthorn Well at Bartow.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 92.29 ft NGVD, Oct. 13, 1982; lowest daily maximum water level, 75.24 ft NGVD, June 13, 16, 17, 18, 1977.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
06...	1135	89.66	23...	1340	90.23
DEC			JUL		
15...	1109	87.65	09...	1350	86.39
JAN			AUG		
11...	0802	87.29	20...	0635	86.87

## POLK COUNTY

**WELL NUMBER.--275326081585801. ROMP 60 Deep Well at Mulberry, FL.**

LOCATION.--Lat 27°53'26", long 81°58'58", in SE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.11, T.30 S., R.23 E., Hydrologic Unit 03100204, 0.3 mi south of State Highway 60, and 0.5 mi west of Mulberry. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused industrial, artesian well, diameter 10 in., depth 710 ft, cased to 237 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 99.72 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.00 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby industrial and irrigation wells.

PERIOD OF RECORD.--February 1955 to February 1961 (periodic); March 1961 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey. Prior to October 1979, published as Mulberry Deep Well at Mulberry.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 87.07 ft NGVD, Oct. 23, 1959; lowest daily maximum water level, 25.90 ft NGVD, May 9, 1975.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	69.50	64.58	65.37	66.03	69.42	70.50	70.95	69.19	61.29	61.97	65.99	66.80
10	69.78	63.93	65.76	65.90	69.45	70.28	71.58	67.76	60.42	63.01	65.40	68.17
15	70.09	62.94	66.13	66.63	69.91	69.68	71.95	65.75	59.54	64.02	64.55	69.02
20	69.71	63.04	65.93	67.58	69.77	68.77	72.22	64.10	58.66	64.63	64.92	69.74
25	68.13	63.87	65.97	68.18	69.55	69.49	71.84	61.94	58.74	64.52	64.29	70.11
EOM	66.04	65.15	65.75	68.80	69.92	70.44	70.81	60.29	60.46	65.46	65.77	70.17
MAX	70.21	65.98	66.20	68.80	70.03	70.62	72.24	70.34	61.53	65.46	66.03	70.29

CAL YR 1992 MAX 70.21

WTR YR 1993 MAX 72.24

**WELL NUMBER.--275348081335701. ROMP 57A Ocala Well near Lake Wales, FL.**

LOCATION.--Lat 27°53'48", long 81°33'55", in SE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.1, T.30 S., R.27 E., Hydrologic Unit 03090101, 300 ft west of 11th Street, 0.5 mi north of State Highway 60, and 1.4 mi east of Lake Wales. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of Eocene Age, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 315 ft, cased to 274 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 197.58 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of recorder shelter floor, 3.10 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby well.

PERIOD OF RECORD.--November 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 99.29 ft NGVD, Apr. 5, 10, 1993; lowest, 89.72 ft NGVD, Dec. 25, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	98.74	97.14	98.65	97.90	98.94	98.93	99.29	96.96	97.89	98.21	97.69	98.11
10	98.76	97.68	98.52	98.36	98.76	98.71	99.29	97.75	96.16	98.25	96.97	98.54
15	98.55	97.94	98.53	98.81	98.76	98.00	98.92	96.76	96.26	98.39	97.36	98.62
20	98.32	97.95	98.39	98.75	98.72	98.72	99.12	96.35	96.27	98.01	96.72	98.64
25	97.58	98.38	98.43	98.99	98.83	98.98	98.54	95.75	95.74	98.38	96.86	97.85
EOM	97.44	98.75	97.91	98.95	99.27	98.77	97.49	97.84	97.63	98.64	98.29	98.00
MAX	98.80	98.76	98.78	99.15	99.27	99.10	99.29	98.03	97.97	98.64	98.57	98.71

CAL YR 1992 MAX 98.80

WTR YR 1993 MAX 99.29

**WELL NUMBER.--275348081335703. ROMP 57A NRSD Well near Lake Wales, FL.**

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 101.95 ft NGVD, Apr. 26-May 1, 1993; lowest, 97.48 ft NGVD, May 31, June 1, 2, 1990.

[illegible]

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 108.54 ft NGVD, Mar. 29, 1983; lowest, 87.93 ft NGVD, May 30, 1986.

[illegible]

## POLK COUNTY

**WELL NUMBER.--275411081372002. ROMP 57 Hawthorn Well near Lake Wales, FL.**

LOCATION.--Lat 27°54'11", long 81°37'20", in NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.4, T.30 S., R.27 E., Hydrologic Unit 03100101, 25 ft south of State Highway 60, 1.5 mi west of U. S. Highway 27, and 2.0 mi west of Lake Wales. Owner: Southwest Florida Water Management District.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 7 in., depth 140 ft, cased to 95 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 128.10 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 4.08 ft above land-surface datum.

PERIOD OF RECORD.--July 1981 to current year. Prior to October 1, 1982, published as ROMP 57-2 Hawthorn Well near Lake Wales.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 120.68 ft NGVD, July 29, 1982; lowest, 110.38 ft NGVD, June 8, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	119.68	116.86	117.66	116.79	118.16	118.23	118.59	116.56	116.39	116.45	117.52	116.81
10	118.63	116.81	117.35	117.03	118.03	118.05	118.53	116.40	115.57	116.30	116.76	117.57
15	118.87	116.86	117.35	117.33	117.71	117.76	118.06	115.78	115.26	116.26	116.25	117.68
20	118.12	116.82	117.21	118.21	117.65	117.68	118.38	115.42	114.98	116.31	116.26	117.65
25	117.74	117.52	116.82	117.69	118.01	118.01	117.85	114.89	114.69	117.54	115.79	117.39
EOM	117.40	117.74	116.86	117.36	118.25	117.87	117.14	115.96	116.02	118.05	116.67	117.27
MAX	119.68	117.79	117.77	118.42	118.25	118.23	118.75	117.05	116.39	118.33	118.13	117.75
CAL YR 1992	MAX 119.71											
WTR YR 1993	MAX 119.68											

**WELL NUMBER.--275411081372003. ROMP 57 NRSD Well near Lake Wales, FL.**

LOCATION.--Lat 27°54'11", long 81°37'20", in NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.4, T.30 S., R.27 E., Hydrologic Unit 03100101, 40 ft south of State Highway 60, 1.5 mi west of U. S. Highway 27, and 2.0 mi west of Lake Wales. Owner: Southwest Florida Water Management District.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 40 ft, cased to 15 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 128.82 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.25 in. coupling, 1.98 ft above land-surface datum.

PERIOD OF RECORD.--August 1981 to current year (periodic). Prior to October 1990, published as ROMP 57-3 Shallow Well near Lake Wales.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 123.59 ft NGVD, Aug. 4, 1982; lowest measured, 115.08 ft NGVD, June 6, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
08...	1246	122.54	21...	0840	121.06
DEC			JUL		
15...	1700	120.10	06...	1340	119.08
JAN			AUG		
12...	0802	119.67	10...	0800	120.24

## POLK COUNTY

**WELL NUMBER.--275507081353701. ROMP 58 Ocala Well near Lake Wales, FL.**

LOCATION.--Lat 27°55'07", long 81°35'37", in NW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.35, T.29 S., R.27 E., Hydrologic Unit 03100101, 75 ft west of alternate U. S. Highway 27, 0.2 mi north of Florida Avenue, and 1.3 mi northwest of Lake Wales. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of Eocene Age, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 10 in., depth 330 ft, cased to 155 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Elevation of land-surface datum is 142 ft, from topographic map. Measuring point: Top of recorder shelter floor, 3.34 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby well.

PERIOD OF RECORD.--November 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 100.68 ft NGVD, Oct. 12, 1992; lowest, 84.86 ft NGVD, May 19, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	100.52	94.27	99.37	97.95	99.77	99.47	100.17	94.31	96.60	98.58	97.81	95.69
10	100.44	94.67	---	98.85	98.54	99.18	100.18	95.21	92.53	98.57	96.39	96.49
15	99.82	97.43	---	99.47	97.89	97.86	99.12	93.69	92.85	98.28	96.18	99.05
20	98.43	96.23	98.62	99.75	99.26	98.77	99.65	91.82	93.23	97.72	95.30	98.57
25	96.15	98.19	98.66	99.99	99.65	99.41	97.66	91.75	91.58	98.28	93.07	97.64
EOM	96.74	99.94	96.87	100.18	99.93	99.55	96.90	94.44	97.11	99.18	95.80	98.80
MAX	100.68	99.94	---	100.18	100.24	100.20	100.28	96.10	97.11	99.18	99.26	99.19

**WELL NUMBER.--275507081353702. ROMP 58 NRSD Well near Lake Wales, FL.**

LOCATION.--27°55'07", long 81°35'37", in NW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.35, T.29 S., R.27 E., Hydrologic Unit 03100101, 75 ft west of alternate U. S. Highway 27, 0.2 mi north of Florida Avenue, and 1.3 mi northwest of Lake Wales. Owner: Southwest Florida Water Management District.

AQUIFER.--Surficial aquifer system of Quaternary Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 60 ft, cased to 45 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Elevation of land-surface datum is 142 ft, from topographic map. Measuring point: Top of recorder shelter floor, 3.18 ft above land-surface datum.

PERIOD OF RECORD.--November 1987 to current year. Prior to October 1, 1991, published as ROMP 58 Shallow well near Lake Wales.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 122.78 ft NGVD, Dec. 7-11, 1987; lowest, 116.21 ft NGVD, Apr. 11, May 29, 31, 1992.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	122.22	121.98	---	120.64	---	---	---	121.96	121.30	---	120.22	119.63
10	122.28	---	---	120.53	---	---	---	121.88	121.17	120.44	120.13	119.78
15	122.29	---	121.14	120.55	---	---	---	121.77	---	120.31	120.01	119.90
20	122.25	---	121.02	120.69	---	---	---	121.64	---	120.18	119.90	119.89
25	122.23	---	120.90	120.82	---	---	122.00	121.45	---	120.11	119.79	119.83
EOM	122.09	---	120.76	120.95	---	---	122.00	121.40	---	120.29	119.72	119.81
MAX	122.31	---	---	120.95	---	---	---	122.00	---	---	120.28	119.91

## POLK COUNTY

**WELL NUMBER.--275815081444201. Lake McLeod Shallow Well near Eagle Lake, FL.**

LOCATION.--Lat 27°58'15", long 81°44'42", in SE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.7, T.29 S., R.26 E., Hydrologic Unit 03100101, at intersection Eagle Loop Road and Lake McLeod Road, and 1.0 mi east of Eagle Lake. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 111 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 1.25 in., depth 26 ft, cased to 24 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 139.25 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.50 ft above land-surface datum.

PERIOD OF RECORD.--May 1965 to current year (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 133.59 ft NGVD, Sept. 7, 1988; lowest measured, 122.93 ft NGVD, June 1, 1977.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
06...	1300	131.31	23...	1245	130.50
DEC			JUL		
15...	1306	129.37	05...	1237	130.93
JAN			AUG		
11...	1114	128.99	09...	1245	130.44

**WELL NUMBER.--275840081391101. Rodgers Well near Waverly, FL.**

LOCATION.--Lat 27°58'40", long 81°39'11", in SE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.7, T.29 S., R.27 E., Hydrologic Unit 03100101, 300 ft south of State Highway 540, 1.3 mi west of U. S. Highway 27, and 2.3 mi west of Waverly. Owner: H.S. Rodgers.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, irrigation, artesian well, diameter 12 in., depth 612 ft, cased to 91 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 141.80 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of access hole in pump base, 1.00 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby irrigation wells.

PERIOD OF RECORD.--1958; 1971; 1972; January 1973 to current year (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey. Prior to October 1977, published as Rogers Well near Waverly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 120.53 ft NGVD, Nov. 5, 1958; lowest measured, 96.64 ft NGVD, May 13, 1981.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
DEC			MAY		
15...	1500	114.09	18...	0722	107.94
APR			SEP		
23...	1000	112.77	15...	0920	116.28

## POLK COUNTY

**WELL NUMBER.--275959081552501. Sanlon Ranch Deep Well near Eaton Park, FL.**

LOCATION.--Lat 27°59'59", long 81°55'25", in SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.33, T.28 S., R.24 E., Hydrologic Unit 03100101, 200 ft east of State Highway 37, and 1.1 mi southwest of Eaton Park. Owner: Unknown.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused industrial, artesian well, diameter 24 in., depth 1,220 ft, cased to 293 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 125.22 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.50 ft above land-surface datum.

PERIOD OF RECORD.--January 1970 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 98.70 ft NGVD, Apr. 19, 1983; lowest, 66.38 ft NGVD, May 9, 1975.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	95.85	93.43	93.46	93.51	95.34	96.07	96.58	95.07	89.69	90.34	92.56	93.08
10	96.06	92.97	93.51	93.52	95.46	95.97	96.61	94.29	89.19	90.77	92.09	93.78
15	96.06	92.41	93.52	94.09	95.66	95.65	96.49	93.50	88.97	91.20	91.38	94.63
20	95.65	92.26	93.58	94.42	95.73	95.53	96.66	92.37	88.41	91.63	91.85	95.22
25	95.16	92.55	93.30	94.79	95.69	95.78	96.35	90.81	88.26	91.63	91.47	95.58
EOM	94.27	93.27	93.43	95.40	95.78	96.17	95.82	90.05	89.24	92.25	92.23	95.30
MAX	96.26	94.09	93.58	95.40	95.90	96.22	96.74	95.72	90.15	92.25	92.56	95.61
CAL YR 1992	MAX 96.26											
WTR YR 1993	MAX 96.74											

**WELL NUMBER.--280229081325201. Lake Hatchineha Road Well near Lake Hamilton, FL.**

LOCATION.--Lat 28°02'29", long 81°32'52", in SE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.18, T.28 S., R.28 E., Hydrologic Unit 03090101, on north side of State Highway 542, 5.0 mi east of town of Lake Hamilton. Owner: Florida Department of Transportation.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 463, cased to 137 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 93.90 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 0.75 in. hole in cap, 3.10 ft above land-surface datum.

REMARKS.--The figures of water level as elevation, in feet NGVD, prior to Oct. 1, 1978, are in error. Revised records are in files of the Geological Survey.

PERIOD OF RECORD.--January 1963 to current year (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey. Prior to October 1979, published as Lake Hamilton Well near Lake Hamilton.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 85.56 ft NGVD, Nov. 10, 1969; lowest measured, 74.43 ft NGVD, June 6, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
06...	1330	82.97	18...	0645	80.59
DEC			JUL		
15...	1530	82.09	05...	0941	82.05
JAN			AUG		
11...	1255	82.35	09...	1108	80.88
APR			SEP		
23...	0925	82.38	15...	0850	82.60

## WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

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## POLK COUNTY

**WELL NUMBER.--280456081374301. Smith Well at Haines City, FL.**

**LOCATION.--**Lat 28°04'56", long 81°37'43", in NW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.4, T.28 S., R.27 E., Hydrologic Unit 03100101, 0.1 mi south of State Highway 544, and 0.4 mi west of Alternate U. S. Highway 27 at Haines City. Owner: Jess Smith.

**AQUIFER.--**Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

**WELL CHARACTERISTICS.--**Drilled, irrigation, artesian well, diameter 10 in., depth 549 ft, cased to 110 ft.

**INSTRUMENTATION.--**Periodic measurement with chalked tape by USGS personnel.

**DATUM.--**Land-surface datum is 167.99 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of access hole in pump base, 0.70 ft above land-surface datum.

**REMARKS.--**Water level affected by pumping of nearby irrigation wells.

**PERIOD OF RECORD.--**May 1973 to current year (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey. The figures of water level as elevation, in feet NGVD, prior to Oct. 1, 1977 are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of -2.01 ft.

**EXTREMES FOR PERIOD OF RECORD.--**Highest water level measured, 113.50 ft NGVD, Jan. 31, 1980; lowest measured, 96.03 ft NGVD, Mar. 31, 1976.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			JUL		
06...	1349	113.14	05...	0920	111.43
DEC			AUG		
15...	1545	111.29	09...	1125	109.06
JAN			SEP		
11...	1312	112.35	15...	0820	112.53
APR					
23...	0850	105.63			

## POLK COUNTY

**WELL NUMBER.--281532081345001. Loughman Deep Well near Loughman, FL.**

**LOCATION.--**Lat 28°15'32", long 81°34'50", in NW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.2, T.26 S., R.27 E., Hydrologic Unit 03090101, 10 ft south of Lake Wilson Road, 0.6 mi east of State Highway 545, and 1.6 mi northwest of Loughman. Owner: U.S. Geological Survey.

**AQUIFER.--**Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

**WELL CHARACTERISTICS.--**Drilled, observation, artesian well, diameter 6 in., depth 250 ft, cased to 85 ft.

**INSTRUMENTATION.--**Water-stage recorder--60-minute interval.

**DATUM.--**Land-surface datum is 104.29 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 2.72 ft above land-surface datum.

**REMARKS.--**Water level affected by pumping of nearby irrigation wells.

**PERIOD OF RECORD.--**August 1960 to November 1970 (periodic); December 1970 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

**EXTREMES FOR PERIOD OF RECORD.--**Highest daily maximum water level, 93.23 ft NGVD, Oct. 1, 1979; lowest, 88.60 ft NGVD, May 20, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	90.68	90.40	90.61	90.21	90.80	90.72	91.21	91.10	91.23	91.20	90.83	90.47
10	90.73	90.39	90.57	90.34	90.75	90.60	91.08	91.31	90.94	91.30	90.66	90.73
15	90.68	90.22	90.46	90.55	90.66	90.64	90.96	91.18	91.25	91.29	90.56	90.76
20	90.50	90.28	90.41	90.68	90.64	90.84	90.96	91.24	91.08	91.18	90.28	90.56
25	90.60	90.55	90.28	90.68	90.62	91.04	90.82	90.88	90.84	91.20	90.21	90.44
EOM	90.48	90.62	90.23	90.84	90.68	91.02	90.66	91.40	91.05	91.01	90.53	90.32
MAX	90.77	90.65	90.65	90.84	90.88	91.09	91.21	91.40	91.40	91.33	90.97	90.76

WTR YR 1993    MAX 91.40

**WELL NUMBER.--281532081345002. Loughman Shallow Well near Loughman, FL.**

**LOCATION.--**Lat 28°15'32", long 81°34'50", in NW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.2, T.26 S., R.27 E., Hydrologic Unit 03090101, 10 ft south of Lake Wilson Road, 0.6 mi east of State Highway 545, and 1.6 mi northwest of Loughman. Owner: U.S. Geological Survey.

**AQUIFER.--**Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

**WELL CHARACTERISTICS.--**Drilled, observation, nonartesian well, diameter 6 in., depth 32 ft, cased to 29 ft.

**INSTRUMENTATION.--**Periodic measurement with chalked tape by USGS personnel.

**DATUM.--**Land-surface datum is 104.29 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of nipple, 2.70 ft above land-surface datum.

**PERIOD OF RECORD.--**January 1967 to current year (periodic). Records of water levels prior to January 1974 are available in files of the Geological Survey.

**EXTREMES FOR PERIOD OF RECORD.--**Highest water level measured, 94.06 ft NGVD, Aug. 5, 1982; lowest measured, 89.65 ft NGVD, May 20, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
DEC			JUL		
15...	1615	91.12	05...	0825	92.48
JAN			AUG		
11...	1348	90.94	09...	1015	92.08
APR					
23...	0815	91.99			

MISCELLANEOUS WATER LEVEL MEASUREMENTS  
OCTOBER 1992 TO SEPTEMBER 1993

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POLK COUNTY

STATION NUMBER	STATION NAME	DATE	ELEV- ATION ABOVE NGVD (FEET)
273851082031501	ROMP 40 AVON PARK WELL NEAR DUETTE, FL	05-18-93	33.70
		09-13-93	42.09
273851082031502	ROMP 40 HAWTHORN WELL NEAR DUETTE, FL	05-18-93	128.37
		09-13-93	127.59
273913081331801	NEUMAN WEGUAR WELL 29 NR BEREAH, FL	05-18-93	74.25
274009081452202	MOBIL WELL UF5 NORTH WELL NR BOWLING GREEN, FL	09-16-93	75.53
274108081474601	MOBILE WELL UF9 NORTH WELL NR FT MEADE, FL	05-18-93	64.60
		09-16-93	69.58
274134081401801	LASTINGER RD NR FT MEADE	05-18-93	117.13
		09-16-93	121.87
274227081460401	MOBILE WELL UF 7 NORTH WELL NR FT MEADE, FL	05-18-93	71.09
		09-16-93	69.73
274238081415801	MOBIL WELL UF 1 NORTH WELL NR FT MEADE, FL	05-18-93	80.11
		09-16-93	86.58
274358081540401	32S24E03 743154222 122	05-18-93	111.05
		09-16-93	115.48
274432081493401	J.C.BARNETTE NR FT. MEADE, FL	05-18-93	61.86
		09-16-93	67.07
274522081303901	ROMP CL-2 FLORIDAN WELL NR FROSTPROOF, FL.	05-18-93	76.40
274545081342502	CL-3 HTRN WELL NR FROSTPROOF, FL.	05-18-93	75.47
		09-15-93	84.27
274547081470901	ROMP 45 HAWTHORN WELL AT FT. MEADE, FL.	05-18-93	67.17
		09-16-93	71.59
274547081470902	ROMP 45 SUWANEE WELL AT FT. MEADE, FL	10-07-92	70.10
		05-18-93	64.04
		09-16-93	69.37
274722081590001	119	05-17-93	113.09
		09-13-93	113.75
274841081480901	V. C. CORP OFFICE WELL AT HOMELAND	05-18-93	63.36
		09-16-93	68.55
274847081414501	140	05-18-93	122.51
		09-16-93	126.58
274910081452201	LAKE GARFIELD NURSERIES IRR WELL	05-18-93	63.40
275040081493001	IMC TEST WELL ON HWY 98 NR BARTOW	05-18-93	77.63
		09-16-93	81.25
275059081562201	164	05-17-93	81.98
		09-13-93	82.54
275129082010401	30S23E21 751201422 143	05-17-93	105.74
		09-13-93	109.96
275158081494601	COCHRAN OLD	05-19-93	78.05
		09-16-93	75.73

MISCELLANEOUS WATER LEVEL MEASUREMENTS  
OCTOBER 1992 TO SEPTEMBER 1993

POLK COUNTY

STATION NUMBER	STATION NAME	DATE	ELEV- ATION ABOVE NGVD (FEET)
275253081502301	BARTOW SENIOR HIGH SCHOOL	05-19-93	76.93
		09-16-93	73.88
275301081495701	L.B. BARNES WELL 54 AT BARTOW, FL	05-19-93	77.05
		09-16-93	79.62
275307081510401	WILDWOOD BAPTIST CHURCH AT BARTOW, FL	05-19-93	68.15
		09-16-93	72.29
275403081391301	SR60 DP WELL NR LK WALES	05-18-93	94.61
		09-15-93	102.44
275433081460501	210	05-19-93	86.99
		09-16-93	92.24
275440081493701	CNTRL FL TRUSS HWTN AT BRTW	05-19-93	83.63
275538082031901	KNOX DP WELL NR MULBERRY	05-17-93	59.97
		09-13-93	64.86
275545081362701	222	05-18-93	99.48
		09-15-93	105.83
275615082022001	WARREN HWTN NR MULBERRY	05-17-93	92.43
		09-13-93	97.61
275628081541201	TILLERY RD DEEP NR LKLND	05-19-93	66.80
		09-14-93	70.29
275723081465701	FOODTWN DEEP NR EAGLE LK	05-19-93	88.91
		09-16-93	95.84
275800081523001	CNTL HWTH AT HGHLND CITY	05-19-93	80.30
		09-14-93	80.01
275833082003501	PIPER WATER TWR NR LKLND	05-19-93	70.50
		09-14-93	75.15
280045081504001	POLK CNTY LNDFLL NR LKLD	05-19-93	94.21
		09-14-93	93.41
280053081572301	ORLEANS ST DEEP AT LKLND	05-17-93	72.74
		09-14-93	81.63
280247082015301	PRECISION TRUSS NR LKLND	05-17-93	123.06
280338081572901	N FLORIDA AVE D AT LKLND	05-17-93	84.53
		09-14-93	91.44
280420081570101	LAKELAND STADIUM WELL AT LAKELAND	05-17-93	92.40
		09-14-93	98.67
280455082021501	PLANT CITY QUAD	05-20-93	94.52
		09-15-93	99.46
280457082020901	JOHNSON HTHN NR LAKELAND	05-20-93	97.57
		09-15-93	102.42
280502082002101	HAMILTON HWTN NR LAKELND	05-17-93	84.08
		09-14-93	92.57
280520081575201	CRESENT DR DP AT LAKELND	05-17-93	92.71
		09-14-93	99.15



**WATER RESOURCES DATA FOR FLORIDA, 1993**  
**Volume 3B: Southwest Florida Ground Water**

LOCATION TO SITES ON FIGURE 21

SARASOTA COUNTY

INDEX NUMBER	SITE NUMBER	PAGE NUMBER
1	270137082235301	190
2	270240082235701	190
3	270542082261801	191
4	270919082234201	191
4	270919082234202	192
4	270919082234203	192
4	270919082234204	193
4	270919082234205	193
4	270919082234206	194
5	270952082095901	194
6	270959082203001	195
6	270959082203002	195
6	270959082203003	196
7	271118082285301	196
8	271134082092201	197
8	271134082092202	197
9	271227082084801	198
10	271601082330501	198
11	271619082240201	199
12	271938082251801	199
13	272020082194801	200
14	272040082325501	200
15	272049082324401	201
15	272053082320202	201
16	272119082325101	202
16	272127082323801	202
16	272129082330202	203
16	272133082324701	203
17	272220082151401	204
18	272248082175201	204
19	272255082172202	205
20	272257082180202	205
20	272258082181701	206
21	272258082195301	206
21	272258082195302	207
22	272301082191401	207
23	272308082161801	208
24	272316082302601	208
25	272317082290502	209

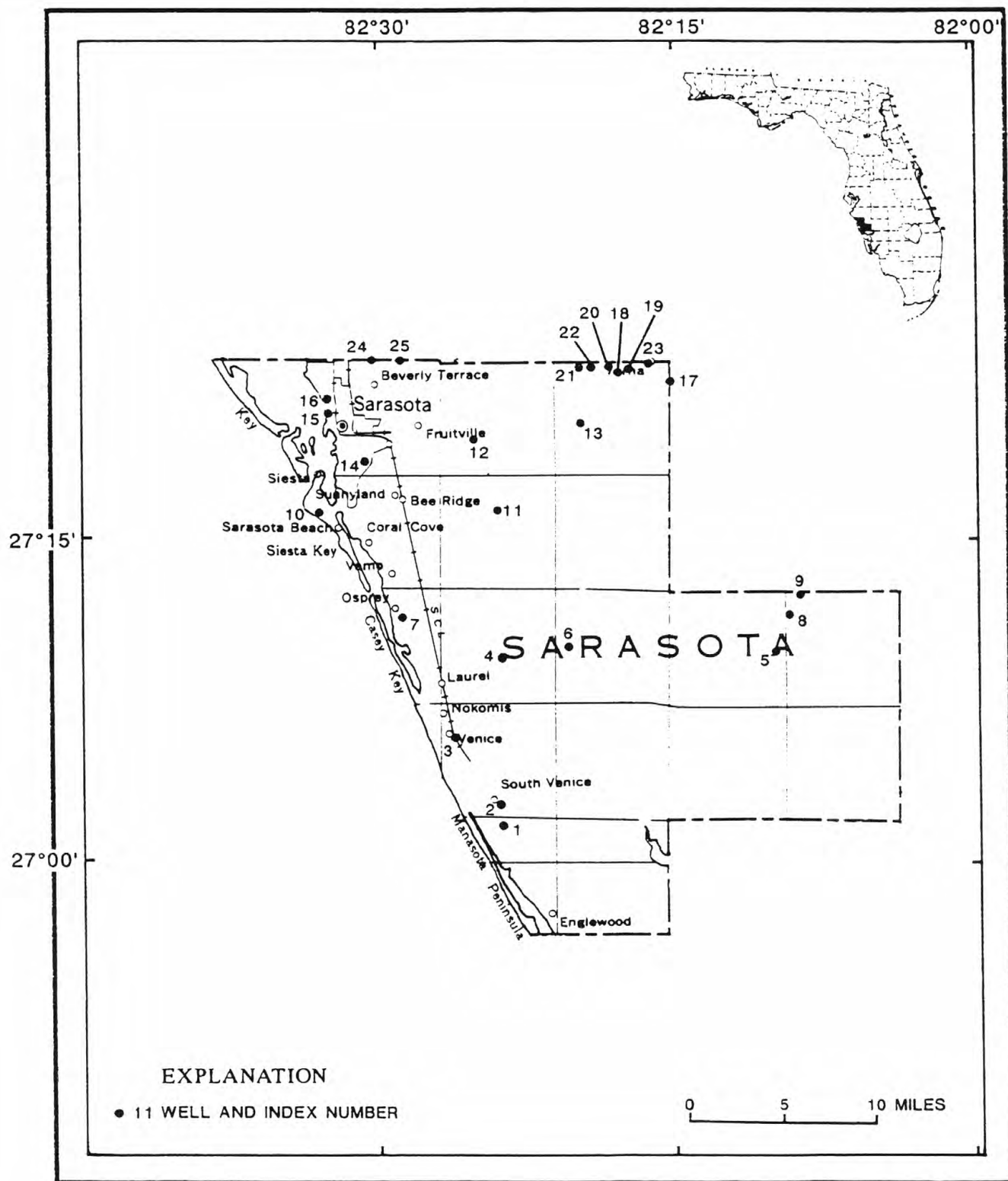


Figure 21.-- Location of wells in Sarasota County.

## SARASOTA COUNTY

**WELL NUMBER.--270137082235301. Manasota Deep Well 14 near Englewood, FL.**

LOCATION.--Lat 27°01'37", long 82°23'53", in NW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.3, T.40 S., R.19 E., Hydrologic Unit 03100201, 100 ft west of State Highway 775, and 5.0 mi northwest of Englewood. Owner: U.S. Geological Survey.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 305 ft, cased to 263 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 15.92 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 10.60 ft above land-surface datum.

PERIOD OF RECORD.--November 1966 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 22.70 ft NGVD, Nov. 30, 1971; lowest, 17.83 ft NGVD, June 11, 1992.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	20.98	19.98	19.45	19.05	19.51	19.50	19.50	19.26	18.65	19.05	19.19	19.77
10	20.85	19.53	19.53	19.13	19.59	19.25	19.57	19.09	18.51	19.15	19.11	19.69
15	20.69	19.44	19.36	19.18	19.47	19.16	19.71	19.17	18.66	19.40	19.18	19.87
20	20.59	19.55	19.39	19.16	19.32	19.22	19.62	19.13	18.74	19.43	19.49	20.10
25	20.64	19.55	19.18	19.52	19.23	19.32	19.42	18.76	18.79	19.27	19.39	20.15
EOM	20.26	19.40	19.11	19.43	19.27	19.33	19.35	18.93	18.97	19.31	19.70	20.06
MAX	20.99	20.21	19.55	19.64	19.71	19.69	19.74	19.38	18.97	19.45	19.70	20.18

CAL YR 1992 MAX 20.99

WTR YR 1993 MAX 20.99

**WELL NUMBER.--270240082235701. ROMP TR 4-2 Suwannee Well near Venice, FL.**

LOCATION.--Lat 27°02'40", long 82°23'57", in SW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.34, T.39 S., R.19 E., Hydrologic Unit 03100201, 0.2 mi east of State Highway 775, and 4.7 mi south of Venice. Owner: Southwest Florida Water Management District.

AQUIFER.--Tampa limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 475 ft, cased to 460 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 15.69 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of recorder shelter floor, 11.60 ft above land-surface datum.

PERIOD OF RECORD.--September 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 24.33 ft NGVD, Mar. 17, 1983; lowest, 20.68 ft NGVD, May 28, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	23.65	22.68	22.31	22.12	22.62	22.59	22.54	22.23	21.42	21.89	22.22	22.53
10	23.38	22.18	22.52	22.08	22.67	22.33	22.64	22.01	21.38	22.01	22.22	22.46
15	23.17	22.12	22.28	22.19	22.44	21.98	22.76	22.09	21.47	22.17	22.34	22.81
20	23.21	22.42	22.38	22.10	22.38	22.00	22.54	22.07	21.50	22.29	22.41	22.96
25	23.40	22.42	22.12	22.64	22.28	22.28	22.42	21.75	21.57	22.10	22.39	22.98
EOM	22.93	22.11	22.03	22.51	22.29	22.35	22.29	21.73	21.79	22.30	22.58	22.77
MAX	23.82	22.85	22.52	22.74	22.99	22.92	22.76	22.43	21.79	22.33	22.58	23.00

CAL YR 1992 MAX 23.82

WTR YR 1993 MAX 23.82

## SARASOTA COUNTY

**WELL NUMBER.--270542082261801. Venice Well 35 at Venice, FL.**

LOCATION.--Lat 27°05'42", long 82°26'18", in SW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.7, T.39 S., R.19 E., Hydrologic Unit 03100201, 0.2 mi west of U. S. Highway 41, and 0.4 mi south of Venice. Owner: U.S. Geological Survey.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 163 ft, cased to 86 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 13.28 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.17 ft above land-surface datum.

REMARKS.--Water level affected by tidal fluctuations.

PERIOD OF RECORD.--October 1963 to current year. Records of water levels prior to October 1975 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 9.88 ft NGVD, Sept. 5, 1974; lowest, 2.42 ft below NGVD, Apr. 30, 1971.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.41	6.55	6.20	5.56	6.63	6.62	7.08	5.10	5.44	5.38	4.97	5.47
10	8.42	6.46	6.07	5.43	5.55	5.17	7.05	6.06	5.12	5.80	4.46	6.02
15	7.99	5.78	5.83	6.42	6.49	6.65	7.04	6.32	5.16	5.28	4.69	5.50
20	7.44	6.59	4.90	5.46	6.40	6.91	6.83	5.65	4.82	5.19	6.05	6.42
25	6.83	5.51	5.95	6.22	6.16	6.69	5.86	5.27	5.70	4.15	4.58	6.26
EOM	7.14	6.11	5.40	5.89	5.82	5.62	6.67	5.73	4.11	5.16	6.31	5.84
MAX	8.44	6.81	6.31	6.77	6.69	7.23	7.58	6.66	5.92	5.99	6.38	6.79

CAL YR 1992 MAX 8.75

WTR YR 1993 MAX 8.44

**WELL NUMBER.--270919082234201. ROMP TR 5-2 Surficial Well near Laurel, FL.**

LOCATION.--Lat 27°09'19", long 82°23'42", in NE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.22, T.38 S., R.19 E., Hydrologic Unit 03100201, 0.4 mi east of Haul Road, 1.25 mi north of Laurel Road, and 2.0 mi northeast of Laurel. Owner: Southwest Florida Water Management District.

AQUIFER.--Surficial aquifer system of Pleistocene/Pliocene Age, Geologic Unit 110 SAQS.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 13 ft, cased to 8 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 15.18 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District bench mark). Measuring point: Top of male adapter, 5.69 ft above land-surface datum.

PERIOD OF RECORD.--October 1989 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.92 ft NGVD, Sept. 16, 1993; lowest measured, 7.47 ft NGVD, June 21, 1990.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV			JUN		
02...	1600	11.62	15...	1110	10.72
JAN			23...	1300	10.78
20...	1325	11.93	AUG		
APR			04...	1220	11.37
12...	1420	12.32	SEP		
			16...	1130	12.92

## SARASOTA COUNTY

**WELL NUMBER.--270919082234202. ROMP TR 5-2 Upper Hawthorn Well near Laurel, FL.**

LOCATION.--Lat 27°09'19", long 82°23'42", in NE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.22, T.38 S., R.19 E., Hydrologic Unit 03100201, 0.4 mi east of Haul Road, 1.25 mi north of Laurel Road, and 2.0 mi northeast of Laurel. Owner: Southwest Florida Water Management District.

AQUIFER.--Intermediate aquifer system of Miocene Age, Geologic Unit 121 IAQS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 120 ft, cased to 100 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 15.18 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District bench mark). Measuring point: Top of casing, 20.72 ft above land-surface datum.

REMARKS.--Well platform under reconstruction in 1992 water year, resulting in sporadic measurements.

PERIOD OF RECORD.--October 1989 to current year (periodic). Prior to October 1990, published as ROMP TR 5-2 Hawthorn Well near Laurel.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.01 ft NGVD, Apr. 12, 1993; lowest measured, 9.45 ft NGVD, May 15, 1990.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
JAN 20...	1555	13.02	AUG 04...	1300	12.72
APR 12...	1450	14.01	SEP 14...	0826	13.32
JUN 15...	1146	11.56			

**WELL NUMBER.--270919082234203. ROMP TR 5-2 Lower Hawthorn Well near Laurel, FL.**

LOCATION.--Lat 27°09'19", long 82°23'42", in NE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.22, T.38 S., R.19 E., Hydrologic Unit 03100201, 0.4 mi east of Haul Road, 1.25 mi north of Laurel Road, and 2.0 mi northeast of Laurel. Owner: Southwest Florida Water Management District.

AQUIFER.--Intermediate aquifer system of Miocene Age, Geologic Unit 121 IAQS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 265 ft, cased to 245 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 15.18 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District bench mark). Measuring point: Top of steel casing, 21.72 ft above land-surface datum.

REMARKS.--Well platform under reconstruction in 1992 water year, resulting in sporadic measurements.

PERIOD OF RECORD.--October 1989 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.87 ft NGVD, Sept. 10, 1991; lowest measured, 18.83 ft NGVD, May 15, 1990.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
JAN 20...	1415	25.01	AUG 04...	1255	25.92
APR 12...	1443	25.63	SEP 14...	0828	26.75
JUN 15...	1143	21.42			

## SARASOTA COUNTY

**WELL NUMBER.--270919082234204. ROMP TR 5-2 Tampa Well near Laurel, FL.**

LOCATION.--Lat 27°09'19", long 82°23'42", in NE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.22, T.38 S., R.19 E., Hydrologic Unit 03100201, 0.4 mi east of Haul Road, 1.25 mi north of Laurel Road, and 2.0 mi northeast of Laurel. Owner: Southwest Florida Water Management District.

AQUIFER.--Intermediate aquifer system of Miocene Age, Geologic Unit 121 IAQS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in. (corrected), depth 400 ft, cased to 360 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 15.18 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District bench mark). Measuring point: Top of casing, 22.63 ft above land-surface datum.

REMARKS.--Well platform under reconstruction in 1992 water year, resulting in sporadic measurements.

PERIOD OF RECORD.--October 1989 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.37 ft NGVD, Sept. 10, 1991; lowest measured, 18.36 ft NGVD, May 15, 1990.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 02...	1550	27.36	MAY 18...	1005	23.80
JAN 20...	1405	25.04	JUN 15...	1135	21.72
APR 12...	1435	25.77	AUG 04...	1245	26.11

**WELL NUMBER.--270919082234205. ROMP TR 5-2 Suwannee Well near Laurel, FL.**

LOCATION.--Lat 27°09'19", long 82°23'42", in NE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.22, T.38 S., R.19 E., Hydrologic Unit 03100201, 0.4 mi east of Haul Road, 1.25 mi north of Laurel Road, and 2.0 mi northeast of Laurel. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 123 SWNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 700 ft, cased to 510 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 15.18 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District bench mark). Measuring point: Top of flange, 21.94 ft above land-surface datum.

PERIOD OF RECORD.--October 1988 to current year. The figures of water level as elevation, in feet NGVD, prior to Oct. 1, 1992, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of +0.18 ft.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 30.27 ft NGVD (corrected), Sept. 4, 1991; lowest, 19.26 ft NGVD (corrected), May 31, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	28.31	26.89	26.13	28.30	27.86	27.82	26.64	23.52	25.38	27.79	28.17
10	---	27.58	27.20	25.98	28.49	27.92	27.81	26.04	23.15	26.13	27.60	28.11
15	---	26.99	27.19	26.53	28.20	27.67	28.03	25.57	23.35	26.51	27.53	28.79
20	---	26.91	27.18	26.89	28.06	27.49	27.99	25.17	23.72	26.99	27.86	29.12
25	---	26.76	26.98	27.58	27.79	27.59	27.76	24.18	24.22	26.88	27.70	29.17
EOM	---	26.72	26.57	27.91	27.60	27.54	27.38	23.65	24.99	27.55	27.90	29.02
MAX	---	---	27.48	27.91	28.60	28.39	28.04	27.34	24.99	27.55	27.90	29.18

## SARASOTA COUNTY

**WELL NUMBER.--270919082234206. ROMP TR 5-2 Ocala Well near Laurel, FL.**

LOCATION.--Lat 27°09'19", long 82°23'42", in NE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.22, T.38 S., R.19 E., Hydrologic Unit 03100201, 0.4 mi east of Haul Road, 1.25 mi north of Laurel Road, and 2.0 mi northeast of Laurel. Owner: Southwest Florida Water Management District.

AQUIFER.--Upper Floridan aquifer of Eocene Age, Geologic Unit 120 UFAQ.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in. (corrected), depth 890 ft, cased to 850 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 15.18 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District bench mark). Measuring point: Top of coupling, 22.60 ft above land-surface datum.

REMARKS.--Well platform under reconstruction in 1992 water year, resulting in sporadic measurements.

PERIOD OF RECORD.--October 1989 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 30.35 ft NGVD, Nov. 2, 1992; lowest measured, 20.50 ft NGVD, May 15, 1990.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV			MAY		
02...	1345	30.35	18...	1010	26.89
JAN			JUN		
20...	1400	28.25	15...	1138	24.70
APR			AUG		
12...	1440	29.27	04...	1250	28.90

**WELL NUMBER.--270952082095901. Mabry Carlton Well 13 near Myakka City, FL.**

LOCATION.--Lat 27°09'52", long 82°09'59", in SE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.13, T.38 S., R.21 E., Hydrologic Unit 03100102, 2.0 mi south of State Highway 72, and 12.5 mi southwest of Myakka City. Owner: Mabry Carlton.

AQUIFER.--Tampa limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, irrigation, artesian well, diameter 6 in., depth 287 ft, cased to 65 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Elevation of land-surface datum is 30 ft, from topographic map. Measuring point: Top of recorder shelter floor, 12.15 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 40.41 ft NGVD, Sept. 12, 13, 1986; lowest, 28.18 ft NGVD, May 24, 1984.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	40.26	38.97	37.75	37.17	39.01	39.10	39.31	38.30	35.72	36.34	37.49	38.47
10	40.33	38.40	37.80	37.19	39.12	39.05	39.34	37.99	35.47	36.73	37.49	38.85
15	40.30	37.97	37.69	37.72	39.16	38.85	39.34	37.58	35.43	37.10	37.44	39.16
20	40.10	37.73	37.70	38.03	39.05	38.97	39.34	37.15	35.36	37.23	37.46	39.35
25	39.80	37.68	37.48	38.46	38.92	39.04	39.05	36.43	35.49	37.22	37.45	39.38
EOM	39.30	37.67	37.36	38.83	38.93	38.99	38.77	35.97	35.92	37.41	38.05	39.17
MAX	40.40	39.23	37.80	38.83	39.21	39.38	39.38	38.69	35.94	37.41	38.05	39.38

CAL YR 1992 MAX 40.40

WTR YR 1993 MAX 40.40

## SARASOTA COUNTY

**WELL NUMBER.--270959082203001. ROMP 19 WLAM Well near Sarasota, FL.**

LOCATION.--Lat 27°09'59", long 82°20'30", in SW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.18, T.38 S., R.20 E., Hydrologic Unit 03100102, 5.2 mi south of State Highway 72, and 15.5 mi southeast of Sarasota. Owner: Southwest Florida Water Management District.

AQUIFER.--Suwannee limestone of Oligocene Age, Geologic Unit 123 SWNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 425 ft, cased to 410 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Elevation of land-surface datum is 20 ft, from topographic map. Measuring point: Top of casing, 12.62 ft above land-surface datum.

PERIOD OF RECORD.--July 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 33.04 ft NGVD, Jan. 27, 1984; lowest, 18.94 ft NGVD, May 31, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	31.83	29.64	27.89	---	---	---	---	---	---	---	29.05	29.47
10	31.78	28.84	28.25	---	---	---	---	---	---	---	29.16	---
15	31.79	28.11	28.22	---	---	---	---	---	---	27.90	29.19	---
20	31.68	27.95	28.15	---	---	---	---	---	---	---	29.48	30.58
25	31.21	27.78	28.07	---	---	---	---	---	---	28.29	29.19	30.64
EOM	30.46	27.72	27.66	---	---	---	---	---	---	28.79	---	30.46
MAX	31.89	30.35	28.29	---	---	---	---	---	---	---	---	---
CAL YR 1992	MAX 31.89											

**WELL NUMBER.--270959082203002. ROMP 19 WUAM Well near Sarasota, FL.**

LOCATION.--Lat 27°09'59", long 82°20'30", in SW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.18, T.38 S., R.20 E., Hydrologic Unit 03100102, 5.2 mi south of State Highway 72, and 15.5 mi southeast of Sarasota. Owner: Southwest Florida Water Management District.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 18 in., depth 205 ft, cased to 87 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 20 ft, from topographic map. Measuring point: Top of shelter floor, 12.38 ft above land-surface datum.

PERIOD OF RECORD.--July 1981 to September 1991; October 1991 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 19.70 ft NGVD, estimated, Sept. 3, 1988; lowest, 12.11 ft NGVD, June 11, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV			AUG		
18...	1600	17.49	30...	1318	16.81
MAY			SEP		
20...	0820	17.70	16...	0925	17.29
JUL					
12...	1630	16.06			

## WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

## SARASOTA COUNTY

**WELL NUMBER.--270959082203003. ROMP 19 WS Well near Sarasota, FL.**

LOCATION.--Lat 27°09'59", long 82°20'30", in SW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.18, T.38 S., R.20 E., Hydrologic Unit 03100102, 5.2 mi south of State Highway 72, and 15.5 mi southeast of Sarasota. Owner: Southwest Florida Water Management District

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 67 ft, cased to 32 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Elevation of land-surface datum is 20 ft, from topographic map. Measuring point: Top of recorder shelter floor, 2.90 ft above land-surface datum.

PERIOD OF RECORD.--July 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 19.72 ft NGVD, June 26, 1992; lowest, 13.56 ft NGVD, June 12, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	16.80	16.44	18.01	18.87	19.02	18.31	---	17.67	16.87	---
10	---	---	17.00	17.63	18.40	18.09	18.25	17.46	---	18.21	16.90	---
15	---	---	16.66	18.44	18.28	19.29	18.84	16.99	---	18.49	16.71	---
20	---	16.87	16.48	18.11	17.81	18.82	17.99	---	---	---	16.79	18.41
25	---	16.88	16.33	18.56	18.30	18.16	17.69	---	17.33	17.19	16.74	---
EOM	---	16.89	16.19	18.55	19.10	18.95	17.35	---	16.98	17.59	---	18.19
MAX	---	---	17.03	19.14	19.15	19.31	19.29	---	---	---	---	---

**WELL NUMBER.--271118082285301. Osprey Well 9 near Osprey, FL.**

LOCATION.--Lat 27°11'18", long 82°28'53", in SW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.11, T.38 S., R.18 E., Hydrologic Unit 03100201, 0.3 mi east of U. S. Highway 41, and 1.0 mi southeast of Osprey. Owner: U.S. Geological Survey.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 255 ft, cased to 157 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 14.37 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 10.06 ft above land-surface datum.

PERIOD OF RECORD.--March 1966 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 21.45 ft NGVD, July 10, 1968; lowest, 6.52 ft NGVD, May 28, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.58	12.79	11.79	11.05	12.71	12.68	12.95	11.94	10.13	10.31	10.17	11.52
10	14.65	12.36	11.66	11.18	12.80	12.49	13.22	11.45	9.28	10.50	10.01	11.63
15	14.59	12.05	11.86	11.73	12.78	12.63	13.14	11.42	9.23	10.22	10.33	11.74
20	14.40	11.48	11.58	12.02	12.55	13.00	13.24	10.67	9.81	10.13	10.69	12.13
25	14.00	11.57	11.47	12.25	12.45	12.80	12.95	10.11	9.87	9.41	10.41	12.06
EOM	13.45	11.72	11.17	12.67	12.57	12.54	12.46	10.06	10.09	10.09	11.06	12.09
MAX	14.71	13.36	11.92	12.67	13.04	13.00	13.24	12.50	10.22	10.50	11.06	12.21

CAL YR 1992 MAX 14.71

WTR YR 1993 MAX 14.71

## SARASOTA COUNTY

**WELL NUMBER.--271134082092201. Big Slough Deep Well near Arcadia, FL.**

LOCATION.--Lat 27°11'34", long 82°09'22", in NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.12, T.38 S., R.22 E., Hydrologic Unit 03100102, 30 ft south of State Highway 72, and 17.5 mi west of Arcadia. Owner: U.S. Geological Survey.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 100 ft, cased to 78 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 33.26 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of PVC extension, 3.33 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--December 1977 to current year. The figures of water level as elevation, in feet NGVD, prior to Oct. 1, 1982, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of +0.11 ft.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 35.92 ft NGVD, Oct. 6, 1982; lowest, 28.74 ft NGVD, June 15, 16, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	35.21	34.27	33.09	32.54	33.97	34.33	34.66	33.91	32.07	31.58	32.25	33.35
10	35.28	33.92	33.09	32.53	34.10	34.29	34.68	33.67	31.83	31.79	32.28	33.81
15	35.31	33.65	32.96	32.86	34.19	34.29	34.76	33.36	31.61	32.02	32.25	34.18
20	35.18	33.39	32.88	33.12	34.17	34.45	34.59	33.11	31.33	32.14	32.20	34.37
25	34.94	33.26	32.78	33.48	34.10	34.52	34.45	32.65	31.25	32.09	32.29	34.47
EOM	34.57	33.14	32.67	33.81	34.17	34.40	34.21	32.34	31.41	32.21	32.90	34.48
MAX	35.36	34.50	33.14	33.81	34.22	34.59	34.76	34.15	32.32	32.21	32.90	34.51

WTR YR 1993 MAX 35.36

**WELL NUMBER.--271134082092202. Big Slough Shallow Well near Arcadia, FL.**

LOCATION.--Lat 27°11'34", long 82°09'22", in NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.12, T.38 S., R.22 E., Hydrologic Unit 03100102, 30 ft south of State Highway 72, and 17.5 mi west of Arcadia. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 25 ft, cased to 19 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 33.26 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.65 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--December 1977 to current year. The figures of water level as elevation, in feet NGVD, prior to Oct. 1, 1982, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of +0.07 ft.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 34.51 ft NGVD, June 27, 1992; lowest, 25.80 ft NGVD, June 16, 18, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	31.26	29.17	28.62	28.14	30.17	30.56	32.39	29.58	28.61	28.27	28.20	30.48
10	30.96	28.97	28.58	28.62	30.26	30.15	31.83	29.31	28.18	28.37	27.91	31.19
15	30.71	28.82	28.47	29.48	30.15	31.52	31.03	29.04	27.90	28.79	27.93	31.24
20	30.05	28.68	28.38	30.10	29.77	31.56	31.57	28.80	27.54	28.47	27.88	30.96
25	29.67	28.89	28.29	29.93	29.92	30.97	30.52	28.57	27.44	28.09	28.09	30.55
EOM	29.37	28.76	28.20	30.62	30.58	30.35	30.01	28.74	28.13	28.34	30.77	30.78
MAX	31.26	29.33	28.72	30.73	30.58	31.62	32.39	29.89	28.79	28.79	---	31.43

CAL YR 1992 MAX 34.51

## SARASOTA COUNTY

**WELL NUMBER.--271227082084801. Mabry Carlton Well No. 6 near Myakka City, FL.**

LOCATION.--Lat 27°12'27", long 82°08'48", in NW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.6, T.38 S., R.22 E., Hydrologic Unit 03100102, 1.0 mi north of State Highway 72, and 9.5 mi southeast of Myakka City. Owner: M. Carlton & Sons.

AQUIFER.--Tampa limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, irrigation, artesian well, diameter 12 in., depth 369 ft, cased to 311 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Elevation of land-surface datum is 40 ft, from topographic map. Measuring point: Top of recorder shelter floor, 5.50 ft above land-surface datum.

PERIOD OF RECORD.--March 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 41.10 ft NGVD, Jan. 25, 27, 1984; lowest, 25.14 ft NGVD, May 28, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	40.40	37.71	36.41	35.04	38.47	37.93	38.05	36.28	31.36	35.29	37.19	38.33
10	40.42	36.24	36.41	35.46	38.54	37.99	38.31	35.95	31.57	36.05	37.36	38.67
15	40.45	35.95	36.41	36.28	38.52	37.02	38.30	34.74	31.69	36.69	37.35	39.01
20	40.24	35.45	36.71	36.89	37.81	36.86	38.24	33.63	32.65	36.84	37.75	39.33
25	39.70	35.72	35.49	37.67	37.37	37.35	37.60	32.19	33.25	37.04	37.57	39.45
EOM	38.48	36.18	35.54	38.22	37.45	37.86	36.63	31.67	34.42	37.22	38.07	39.11
MAX	40.52	38.33	36.72	38.22	38.58	38.13	38.31	36.50	34.42	37.22	38.07	39.45
CAL YR 1992	MAX 40.52											
WTR YR 1993	MAX 40.52											

**WELL NUMBER.--271601082330501. ROMP TR 6-1 Hawthorn Well near Sarasota, FL.**

LOCATION.--Lat 27°16'01", long 82°33'05", in NW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.13, T.37 S., R.17 E., Hydrologic Unit 03100201, 40 ft south of State Highway 789A, 1.8 mi west of U. S. Highway 41, and 4.8 mi south of Sarasota. Owner: Southwest Florida Water Management District.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 315 ft, cased to 300 ft.

INSTRUMENTATION.--Periodic measurement with pressure gage or chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 5 ft, from topographic map. Measuring points: Top of 2 in. access hole in top of 6 in. cap, 4.08 ft above land-surface datum, with pressure gage; bottom of 2 in. discharge pipe, 3.91 ft above land-surface datum, with chalked tape.

PERIOD OF RECORD.--April 1979 to September 1989; October 1989 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 12.04 ft NGVD, Sept. 22, 1985; lowest measured, 3.25 ft NGVD, June 9, 1992.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
DEC			JUN		
10...	0945	6.94	21...	1140	6.01
JAN			AUG		
20...	1200	6.81	04...	1135	4.72
APR			SEP		
12...	1115	8.98	13...	1244	8.22
MAY					
18...	1220	3.77			

## SARASOTA COUNTY

**WELL NUMBER.--271619082240201. Florida Cities Test Well 1 near Sarasota, FL.**

LOCATION.--Lat 27°16'19", long 82°24'02", in SE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.9, T.37 S., R.19 E., Hydrologic Unit 03100201, 20 ft east of Bee Ridge Road, 1.0 mi north of State Highway 72, and 9.0 mi southeast of Sarasota. Owner: Florida Cities Utilities.

AQUIFER.--Suwannee limestone of Oligocene Age, Geologic Unit 123 SWNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 446 ft, cased to 104 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 34.26 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 2.99 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby irrigation wells.

PERIOD OF RECORD.--March 1974 to December 1974 (periodic); January 1975 to current year. Records of water levels prior to October 1975 are available in files of the Geological Survey. The figures of water level as elevation, in feet NGVD, prior to Oct. 1, 1977, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of -1.74 ft.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 24.30 ft NGVD, estimated, Mar. 8, 9, 1978; lowest, 20.37 ft below NGVD, May 5, 1976.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	20.18	14.85	13.56	12.31	16.85	17.04	17.22	12.37	9.72	12.73	14.82	16.27
10	20.27	14.49	14.02	12.58	16.80	16.12	17.61	---	7.57	13.64	14.22	17.07
15	19.97	13.49	14.54	14.42	16.65	15.66	17.05	---	7.90	13.83	15.01	17.40
20	19.40	13.91	12.82	15.13	15.18	17.01	17.13	---	8.38	13.31	15.10	17.69
25	17.41	12.89	12.98	15.71	16.03	16.67	15.88	8.08	10.69	12.54	14.15	17.41
EOM	16.05	13.85	12.64	16.55	16.53	15.85	15.25	9.91	10.82	14.65	16.03	17.04
MAX	20.35	15.72	14.54	16.83	17.28	17.04	17.61	---	11.25	14.68	16.03	17.96

**WELL NUMBER.--271938082251801. Sarasota Well 9 near Sarasota, FL.**

LOCATION.--Lat 27°19'38", long 82°25'18", in SW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.20, T.36 S., R.19 E., Hydrologic Unit 03100201, 0.8 mi south of State Highway 780, and 5.0 mi east of Sarasota. Owner: Palmer Corporation.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused irrigation, artesian well, diameter 8 in., depth 730 ft, cased to 101 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 33.56 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 4.00 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby irrigation wells.

PERIOD OF RECORD.--September 1930 to December 1931; January 1932 to April 1937; November 1941 to current year. Records of water levels prior to January 1943 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 38.76 ft NGVD, Mar. 7, 1931; lowest daily maximum water level, 1.19 ft NGVD, May 27, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	27.85	21.55	20.15	18.27	24.51	24.19	23.84	17.39	14.19	20.72	24.08	25.44
10	27.89	20.22	21.34	19.56	24.18	22.19	24.23	17.43	13.35	21.74	23.68	25.88
15	27.64	20.47	20.69	21.26	23.79	22.91	23.44	16.59	13.36	22.55	23.20	26.21
20	26.90	19.07	19.02	22.62	21.71	22.78	22.89	14.45	14.96	22.40	23.40	26.40
25	25.33	19.40	18.82	23.47	21.78	22.86	21.89	11.50	17.65	22.30	23.40	26.02
EOM	23.43	20.24	17.81	24.92	23.32	22.13	19.88	13.02	19.06	23.90	24.93	25.25
MAX	28.36	22.91	21.84	24.92	25.18	24.19	24.23	19.48	19.06	23.90	25.02	26.42

WTR YR 1993 MAX 28.36

## SARASOTA COUNTY

**WELL NUMBER.--272020082194801. Verna T Well 0-4 near Verna, FL.**

LOCATION.--Lat 27°20'20", long 82°19'48", in NE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.20, T.36 S., R.20 E., Hydrologic Unit 03100102, 60 ft north of State Highway 780, and 5.0 mi southwest of Verna. Owner: City of Sarasota.

AQUIFER.--Tampa limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 500 ft, cased to 140 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Elevation of land-surface datum is 43 ft, from topographic map. Measuring point: Top of recorder shelter floor, 3.0 ft above land-surface datum.

PERIOD OF RECORD.--February 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 28.07 ft NGVD, Jan. 27, 1984; lowest, 6.04 ft below NGVD, May 28, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	25.32	19.01	17.99	14.61	21.85	20.09	19.55	14.52	8.37	16.66	21.30	21.76
10	25.76	17.62	18.40	15.27	21.75	20.00	20.28	13.68	8.52	18.04	20.97	22.44
15	25.57	16.82	18.41	17.48	21.30	18.79	19.81	12.63	8.59	19.37	20.79	23.27
20	24.51	16.51	18.05	18.91	20.23	18.56	19.49	10.40	10.54	19.79	21.07	23.69
25	22.48	16.99	16.58	20.11	18.58	19.03	18.48	7.64	13.00	19.90	20.38	23.23
EOM	20.67	17.38	15.51	21.64	19.14	18.98	16.98	7.04	15.07	20.97	21.07	22.25
MAX	25.78	20.23	18.50	21.64	21.95	20.34	20.40	16.51	15.07	20.97	21.34	23.69
WTR YR 1993	MAX 25.78											

**WELL NUMBER.--272040082325501 New Hog Well at Sarasota, FL.**

LOCATION.--Lat 27°20'40", long 82°32'55", in NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.24, T.36 S., R.17 E., Hydrologic Unit 03100201, 200 ft south of Coast Guard Auxiliary Station on Tenth Street, 0.1 mi west of U.S. Highway 41, 0.6 mi north of State Highway 780, and 1.0 mi southeast of Sarasota. Owner: City of Sarasota.

AQUIFER.--Suwannee limestone of Oligocene Age, Geologic Unit 123 SWNN.

WELL CHARACTERISTICS.--Drilled, production, artesian well, diameter 6 in., depth 531 ft, cased to 84 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Elevation of land-surface datum is 4.5 ft, from topographic map. Measuring point: Top of recorder shelter floor, 15.07 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby production wells.

PERIOD OF RECORD.--October 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.-- Highest daily maximum water level, 15.73 ft NGVD, Oct. 6, 1992; lowest, 5.29 ft NGVD, May 23, 1990.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.65	10.94	11.63	10.23	13.04	12.41	12.02	9.89	7.73	9.87	10.95	12.82
10	14.03	10.89	11.37	10.55	12.86	12.28	12.31	9.23	7.29	10.14	10.92	12.85
15	14.25	10.29	11.42	11.48	12.99	11.83	12.09	8.77	7.39	10.77	11.20	13.30
20	13.72	10.67	11.23	11.90	12.50	11.78	12.10	8.46	7.90	10.90	11.90	13.86
25	13.08	10.78	10.88	12.19	12.08	11.91	11.92	7.40	8.60	10.72	---	13.56
EOM	12.66	10.68	10.46	13.27	11.93	12.38	10.92	7.17	9.18	10.94	11.92	13.37
MAX	15.73	11.87	11.63	13.27	13.46	13.50	12.74	10.62	9.18	10.94	---	13.94

## SARASOTA COUNTY

**WELL NUMBER.--272049082324401. City of Sarasota 11th Street Well at Sarasota, FL.**

LOCATION.--Lat 27°20'49", long 82°32'44", in SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.18, T.36 S., R.18 E., Hydrologic Unit 03100201, 30 ft north of 11th Street, 0.2 mi west of U. S. Highway 301, and 0.8 mi north of State Highway 780 at Sarasota. Owner: City of Sarasota.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, unused public supply, artesian well, diameter 6 in., depth 479 ft, cased to 43 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 8.73 ft above National Geodetic Vertical Datum of 1929 (levels by City of Sarasota). Measuring point: Top of 8 in. flange, 13.34 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--April 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 19.31 ft NGVD, Sept. 30, 1979; lowest, 1.67 ft NGVD, May 17, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.63	---	---	7.60	11.11	9.93	9.69	7.52	5.27	7.20	8.45	10.49
10	11.92	---	---	8.28	10.38	10.77	9.95	6.57	4.53	7.41	8.40	10.50
15	---	---	---	9.31	10.86	10.49	9.82	6.27	5.11	8.32	8.58	10.93
20	---	---	---	9.91	9.91	9.49	9.76	5.95	4.84	8.43	8.86	11.35
25	---	---	---	9.88	9.64	9.62	9.78	4.57	5.93	8.03	8.55	11.07
EOM	---	---	---	11.13	10.37	9.55	8.80	4.80	6.44	8.28	9.55	10.93
MAX	---	---	---	---	11.11	10.77	10.40	8.72	6.44	8.58	9.55	11.50

**WELL NUMBER.--272053082320202. City of Sarasota Injection Monitor Well 2 at Sarasota, FL.**

LOCATION.--Lat 27°20'53", long 82°32'05", in SE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.18, T.36 S., R.18 E., Hydrologic Unit 03100201, at city of Sarasota Sewage Treatment Plant, 0.25 mi west of U. S. Highway 301, and 0.8 mi north of State Highway 780 at Sarasota. Owner: City of Sarasota.

AQUIFER.--Avon Park formation of Eocene Age, Geologic Unit 124 AVPK.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 24 in., depth 1,200 ft, cased to 1,100 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 23.60 ft above National Geodetic Vertical Datum of 1929 (levels by City of Sarasota). Measuring point: Top of recorder shelter floor, 3.75 ft above land-surface datum.

PERIOD OF RECORD.--April 1976 to August 1990; January 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 23.87 ft NGVD, Oct. 2, 1979; lowest, 7.30 ft NGVD, May 28, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	19.05	15.09	15.24	13.76	17.28	16.82	16.08	12.99	10.43	13.99	15.96	16.27
10	19.04	14.73	15.47	14.17	17.31	16.59	16.51	12.35	10.09	14.48	15.77	16.46
15	18.96	14.16	15.55	15.42	17.15	16.01	16.22	11.91	10.03	15.24	15.12	16.97
20	18.34	14.30	15.31	16.06	16.59	15.89	16.04	10.73	11.03	15.52	15.38	17.41
25	17.57	14.47	14.63	16.73	16.00	16.08	15.38	9.42	12.08	15.29	14.86	17.18
EOM	16.38	14.64	14.11	17.28	16.18	15.89	14.29	9.49	12.98	15.80	15.68	16.76
MAX	19.21	16.14	15.59	17.28	17.58	17.00	16.57	14.20	12.99	15.80	16.03	17.43

## SARASOTA COUNTY

**WELL NUMBER.--272119082325101. Whitaker Bayou Well at Sarasota, FL.**

LOCATION.--Lat 27°21'19", long 82°32'51", in NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.13, T.36 S., R.17 E., Hydrologic Unit 03100201, on right bank of Whitaker Bayou, 45 ft upstream from bridge on U. S. Highway 41, and 1.5 mi northwest of Sarasota. Owner: City of Sarasota.

AQUIFER.--Tampa limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, unused public supply, artesian well, diameter 12 in., depth 337 ft, cased to 54 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 9.93 ft above National Geodetic Vertical Datum of 1929 (levels by City of Sarasota). Measuring point: Top of recorder shelter floor, 9.94 ft above land-surface datum.

REMARKS.--Water level affected by tidal fluctuations.

PERIOD OF RECORD.--September 1962 to current year. Records of water levels prior to October 1975 are available in files of the Geological Survey. The figures of water level as elevation, in feet NGVD, prior to Oct. 1, 1978, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of +3.85 ft.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 16.05 ft estimated, NGVD, Aug. 12, 1978; lowest, 4.46 ft below NGVD, May 17, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.58	3.18	---	2.00	4.75	4.81	4.43	1.92	.29	1.27	2.99	5.69
10	6.72	3.76	3.22	2.14	4.59	4.38	4.56	1.29	-.40	1.99	2.91	5.94
15	6.93	3.44	3.08	3.66	4.84	4.13	4.46	1.19	.28	3.00	3.49	6.18
20	6.25	3.80	2.63	4.89	4.57	4.56	4.85	1.28	-1.46	2.61	3.67	6.19
25	5.43	3.31	2.63	5.19	4.20	4.26	3.90	-.33	.77	2.44	2.96	6.37
EOM	5.60	3.62	2.24	6.29	3.88	4.64	3.90	-.25	.45	2.67	4.47	6.18
MAX	7.74	4.75	---	6.29	6.72	5.77	5.33	3.59	1.08	3.44	4.47	6.53

**WELL NUMBER.--272127082323801. City of Sarasota 23rd and Coconut Well near Sarasota, FL.**

LOCATION.--Lat 27°21'27", long 82°32'38" in NW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.18, T.36 S., R.18 E., Hydrologic Unit 03100201, 200 ft north of 23rd Street, 0.5 mi east of Coconut Street, and 1.6 mi northwest of Sarasota. Owner: City of Sarasota.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 570 ft, cased to 45 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 9.37 ft above National Geodetic Vertical Datum of 1929 (levels by City of Sarasota). Measuring point: Top of flange, 2.87 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--October 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 11.50 ft NGVD, Dec. 21, 1987; lowest, 7.89 ft below NGVD, May 17, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.33	1.05	3.58	-.59	2.59	2.09	1.10	2.55	-4.40	-1.29	---	10.26
10	4.36	3.27	.97	-.42	2.42	1.52	1.38	-.58	-3.09	.11	---	10.61
15	6.77	.36	.95	4.65	5.39	1.29	1.17	-3.22	-.78	3.42	---	11.03
20	6.32	3.20	.67	1.58	1.72	1.11	1.45	1.32	-4.75	.48	---	---
25	3.18	.52	.27	3.00	1.15	1.45	4.27	-1.92	.45	.05	---	---
EOM	3.37	.65	-.23	6.82	.94	4.99	3.58	-5.35	-2.42	---	---	11.08
MAX	8.05	3.66	3.90	6.82	6.94	5.96	5.54	2.55	1.79	---	---	---

## SARASOTA COUNTY

**WELL NUMBER.--272129082330202. City of Sarasota Hickory Avenue Well near Sarasota, FL.**

LOCATION.--Lat 27°21'29", long 82°33'02", in NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.13, T.36 S., R.17 E., Hydrologic Unit 03100201, 200 ft east of Hickory Avenue, 0.2 mi west of U. S. Highway 41, and 1.7 mi northwest of Sarasota. Owner: City of Sarasota.

AQUIFER.--Upper Floridan Aquifer of Tertiary Age, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 591 ft, cased to 38 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 18.13 ft above National Geodetic Vertical Datum of 1929 (levels by City of Sarasota). Measuring point: Top of 6 in. flange, 3.41 ft above land-surface datum.

REMARKS.--Water level affected by pumpage of nearby production well.

PERIOD OF RECORD.--November 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 18.04 ft NGVD, May 9, 1993; lowest, 28.54 ft below NGVD, May 17, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	-13.03	---	---	---	---	12.17	-7.37	11.72	6.67	---	---	.28
10	---	---	---	---	---	11.66	-7.36	8.38	12.89	---	---	.33
15	---	---	---	---	---	.67	-8.20	7.88	---	---	---	1.17
20	---	---	---	---	---	-8.70	-8.28	9.30	---	-2.95	-7.88	15.27
25	---	---	---	---	---	-11.72	2.84	7.05	---	-3.40	1.14	.56
EOM	---	---	---	---	---	1.36	12.01	6.14	---	-3.49	4.37	-.16
MAX	---	---	---	---	---	---	12.07	18.04	---	---	---	15.27

**WELL NUMBER.--272133082324701. City of Sarasota 27th Street Well near Sarasota, FL.**

LOCATION.--Lat 27°21'33", long 82°32'47", in NW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.18, T.36 S., R.18 E., Hydrologic Unit 03100201, 30 ft south of 27th Street, 0.2 mi east of U. S. Highway 41, and 1.8 mi northwest of Sarasota. Owner: City of Sarasota.

AQUIFER.--Tampa limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, unused public supply well, diameter 12 in., depth 343 ft, cased to 45 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 6.84 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 18.14 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--August 1980 to current year. Records of water levels prior to October 1980 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 20.90 ft NGVD, Sept. 1, 1981; lowest, 4.59 ft below NGVD, May 17, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.35	5.00	6.63	3.49	6.48	6.58	5.25	5.41	.45	3.40	6.94	10.36
10	8.21	6.29	4.91	3.68	6.79	5.81	5.51	2.44	.91	3.38	7.48	10.53
15	9.85	4.19	4.91	5.07	8.31	5.36	5.37	1.70	2.33	6.21	7.61	10.95
20	9.29	5.83	4.67	5.62	6.36	5.17	5.62	3.89	.34	6.29	8.07	11.46
25	7.06	4.48	4.30	6.54	5.76	5.42	7.03	1.15	3.55	4.13	6.02	11.48
EOM	7.20	4.54	3.77	9.42	5.48	7.81	6.51	-.27	2.47	4.32	8.86	10.98
MAX	10.45	6.49	6.93	9.42	9.54	8.49	8.35	5.41	4.51	6.73	8.86	11.61

CAL YR 1992 MAX 10.45  
WTR YR 1993 MAX 11.61

## SARASOTA COUNTY

**WELL NUMBER.--272220082151401. KME Test Well 09 near Verna, FL.**

LOCATION.--Lat 27°22'20", long 82°15'14", in SE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.1, T.36 S., R.20 E., Hydrologic Unit 03100102, in Verna well field, 0.9 mi east of Verna Road, and 1.1 mi southeast of Verna. Owner: City of Sarasota.

AQUIFER.--Tampa limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 575 ft, cased to 123 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 72.92 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.00 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--April to October 1964; April 1973 to current year. Records of water levels prior to October 1975 are available in files of the Geological Survey. The figures of water level as elevation, in feet NGVD, prior to Oct. 1, 1977, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of -5.11 ft.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 39.89 ft NGVD, Oct. 15, 1964; lowest, 22.91 ft below NGVD, May 28, June 4, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	24.49	14.47	15.46	9.35	20.80	15.32	16.36	13.00	5.85	14.18	18.39	19.29
10	25.37	12.46	13.95	13.39	16.46	16.09	13.16	10.60	7.13	15.74	17.97	20.19
15	22.79	13.49	13.74	13.14	18.83	14.94	17.69	9.05	5.21	19.26	18.76	20.26
20	20.20	10.00	15.98	14.17	14.82	16.53	10.33	4.60	11.26	16.85	17.49	22.38
25	20.80	11.65	11.24	18.03	13.89	15.47	12.56	4.66	10.06	19.86	15.04	20.44
EOM	17.00	14.82	11.20	21.27	17.55	13.38	16.26	8.92	14.15	21.29	18.03	17.69
MAX	26.38	17.84	16.44	21.27	21.73	19.67	19.56	15.95	14.15	21.29	21.62	22.89
CAL YR 1992	MAX 26.38											
WTR YR 1993	MAX 26.38											

**WELL NUMBER.--272248082175201. KME Well 14 A near Verna, FL.**

LOCATION.--Lat 27°22'48", long 82°17'52", in SW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.3, T.36 S., R.20 E., Hydrologic Unit 03100201, 500 ft southeast of water plant at Verna well field, and 1.8 mi southwest of Verna. Owner: City of Sarasota.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, unused public supply, artesian well, diameter 6 in., depth 107 ft, cased to 84 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 80.14 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of flange, 3.65 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--January 1973 to current year. Records of water levels prior to October 1976 are available in files of the Geological Survey. The figures of water level as elevation, in feet NGVD, prior to Oct. 1, 1977, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of -0.06 ft.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 50.34 ft NGVD, Aug. 12, 1992; lowest, 14.51 ft NGVD, Jan. 20, 1973.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	49.38	47.38	45.15	44.10	45.66	46.28	46.39	---	---	42.91	45.89	47.49
10	49.58	46.65	45.28	43.76	46.04	46.10	46.50	---	---	43.48	46.51	47.32
15	49.67	45.89	45.30	44.36	46.12	45.98	46.45	---	---	44.22	46.72	47.47
20	49.18	45.54	45.00	44.76	45.96	45.98	46.40	---	---	44.63	47.11	47.35
25	48.58	45.37	45.21	44.94	46.01	46.13	46.23	---	40.92	44.71	47.47	47.41
EOM	47.98	45.05	44.82	45.60	45.96	46.13	45.73	---	42.12	45.30	47.66	47.33
MAX	49.77	47.53	45.37	45.60	46.26	46.46	46.60	---	---	45.31	47.66	47.85

## SARASOTA COUNTY

**WELL NUMBER.--272255082172202. KME Recharge Well near Verna, FL.**

LOCATION.--Lat 27°22'55", long 82°17'22", in SW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.3, T.36 S., R.20 E., Hydrologic Unit 03100201, at Verna Well Field, 0.5 mi east of water plant, and 1.5 mi southwest of Verna. Owner: City of Sarasota.

AQUIFER.--Avon Park formation of Eocene Age, Geologic Unit 124 AVPK.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 1,200 ft, cased to 800 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 78.77 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 4.00 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--June 1976 to current year. The figures of water level as elevation, in feet NGVD, prior to Oct. 1, 1977, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of -0.13 ft.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 26.73 ft NGVD, Aug. 22, 1982; lowest, 16.29 ft below NGVD, May 27, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	23.73	14.16	14.74	10.15	19.54	17.92	17.18	8.78	2.58	15.27	19.77	19.89
10	24.13	13.20	14.88	11.99	18.90	16.44	18.03	8.10	2.18	16.75	18.59	20.64
15	23.19	12.51	15.29	15.12	18.08	14.10	15.73	5.61	4.06	17.93	18.54	21.62
20	21.16	12.07	13.99	16.95	14.90	15.44	16.58	2.07	7.63	18.76	18.91	21.62
25	18.69	12.99	12.44	18.64	15.69	15.89	13.09	-1.08	10.78	18.31	17.63	19.99
EOM	15.69	14.12	9.80	20.25	16.98	15.04	11.20	1.78	12.89	19.67	19.21	18.61
MAX	24.36	15.56	15.29	20.25	20.33	17.92	18.03	10.22	12.89	19.67	19.99	22.02

CAL YR 1992 MAX 24.61

WTR YR 1993 MAX 24.36

**WELL NUMBER.--272257082180202. KME Water Table Well 11 near Verna, FL.**

LOCATION.--Lat 27°22'57", long 82°18'02", in SW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.3, T.36 S., R.20 E., Hydrologic Unit 03100201, 500 ft west of water plant, and 1.9 mi southwest of Verna. Owner: City of Sarasota.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 21 ft, cased to 18 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 79 ft, from topographic map. Measuring point: Top of adapter, 3.2 ft above land-surface datum.

PERIOD OF RECORD.--November 1972 to current year (periodic). Records of water levels prior to October 1977 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 79.62 ft NGVD, Oct. 11, 1973; lowest measured, 71.30 ft NGVD, May 29, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
19...	1615	77.35	17...	1020	76.40
JAN			AUG		
12...	1255	75.59	06...	1155	77.30
APR			SEP		
09...	0905	78.51	14...	0945	78.78

## SARASOTA COUNTY

**WELL NUMBER.--272258082181701. KME Water Table Well 09 near Verna, FL.**

LOCATION.--Lat 27°22'58", long 82°18'17", in SE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.4, T.36 S., R.20 E., Hydrologic Unit 03100201, 0.5 mi west of water plant in Verna well field, and 2.2 mi southwest of Verna. Owner: City of Sarasota.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 8 in., depth 42 ft, cased to 21 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 79.00 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 6 in. flange, 2.74 ft above land-surface datum.

PERIOD OF RECORD.--February 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 79.23 ft NGVD, June 18, 1982, Sept. 7, 1988; lowest, 72.36 ft NGVD, June 8, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	78.98	76.70	76.40	75.83	77.34	77.73	79.08	77.54	76.36	76.31	77.21	77.73
10	78.72	76.52	76.78	76.85	77.22	77.09	78.87	76.71	75.91	76.69	76.96	79.01
15	78.24	76.63	76.36	78.21	77.07	78.36	79.07	76.42	75.59	76.74	78.00	78.91
20	77.77	76.35	76.18	77.41	76.88	77.98	78.80	76.18	75.41	76.05	77.59	78.13
25	77.24	76.61	76.06	78.29	77.03	77.67	78.76	75.84	77.64	76.68	78.49	77.35
EOM	76.86	76.58	75.90	77.78	77.82	77.11	77.17	77.28	76.68	78.72	79.07	76.75
MAX	79.05	76.90	76.78	78.86	78.62	79.01	79.08	77.54	77.64	78.72	79.13	79.09
CAL YR 1992	MAX 79.21											
WTR YR 1993	MAX 79.13											

**WELL NUMBER.--272258082195301. KME Well 04 near Verna, FL.**

LOCATION.--Lat 27°22'58", long 82°19'53", in NW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.5, T.36 S., R.20 E., Hydrologic Unit 03100201, at Verna well field, 2.0 mi west of water plant, and 3.9 mi southwest of Verna. Owner: City of Sarasota.

AQUIFER.--Tampa limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 440 ft, cased to 91 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 62.25 ft above National Geodetic Vertical Datum of 1929 (levels by City of Sarasota). Measuring point: Top of recorder shelter floor, 3.18 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--March 1964 to current year. Records of water levels prior to October 1975 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 47.33 ft NGVD, Apr. 5, 1964; lowest, 1.81 ft NGVD, May 28, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	28.06	24.97	23.86	21.70	25.74	25.08	24.55	21.53	---	---	---	25.64
10	28.37	24.12	24.03	22.04	25.69	24.88	24.97	20.67	---	---	24.51	26.03
15	28.38	23.59	24.06	23.17	25.49	24.16	24.71	19.86	---	---	24.48	26.57
20	27.97	23.34	23.92	23.87	24.90	24.07	24.65	18.51	---	---	24.83	26.89
25	27.05	23.38	23.16	24.67	24.31	24.21	23.90	16.82	---	---	24.62	26.80
EOM	25.95	23.53	22.42	25.54	24.59	24.09	22.98	16.12	---	---	25.20	26.34
MAX	28.47	25.69	24.09	25.54	25.80	25.12	24.97	22.70	---	---	---	26.91

## SARASOTA COUNTY

**WELL NUMBER.--272258082195302. KME Well 04-A near Verna, FL.**

LOCATION.--Lat 27°22'58", long 82°19'53", in NW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.5, T.36 S., R.20 E., Hydrologic Unit 03100201, at Verna well field, 2.0 mi west of water plant, and 3.9 mi southwest of Verna. Owner: City of Sarasota.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 20 ft, cased to 17 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 62.61 ft above National Geodetic Vertical Datum of 1929 (levels by City of Sarasota). Measuring point: Top of casing, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--January 1965 to current year (periodic). Records of water levels prior to October 1975 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 62.58 ft NGVD, Aug. 28, 1981; lowest measured, 55.65 ft NGVD, June 11, 1985.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT 19...	1525	61.14	MAY 17...	0845	60.08
JAN 12...	1205	61.03	AUG 06...	1015	60.70

**WELL NUMBER.--272301082191401. KME 02 Well near Verna, FL.**

LOCATION.--Lat 27°23'01", long 82°19'14", in NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.5, T.36 S., R.20 E., Hydrologic Unit 03100201, 1.5 mi west of water plant in Verna well field, and 3.4 mi southwest of Verna. Owner: City of Sarasota.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 16 in., depth 860 ft, cased to 356 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 71.95 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of shelter floor, 3.00 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--October 1964 to September 1987; October 1987 to current year (periodic). Records of water levels prior to October 1976 are available in files of the Geological Survey. The figures of water level as elevation, in feet NGVD, prior to Oct. 1, 1977, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of +0.95 ft. Revised records are in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 34.85 ft NGVD, Oct. 15, 1964; lowest measured, 14.85 ft below NGVD, May 15, 1989.

## ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT 19...	1543	21.21	AUG 06...	0915	19.41
JAN 12...	1225	12.88	SEP 14...	0900	20.92
MAY 17...	0940	3.53	28...	1330	19.23

## SARASOTA COUNTY

**WELL NUMBER.--272308082161801. KME Well 08 at Verna, FL.**

LOCATION.--Lat 27°23'08", long 82°16'18", in NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.2, T.36 S., R.20 E., Hydrologic Unit 03100201, at Verna well field, 300 ft south of Manatee County line, and 0.2 mi southwest of Verna. Owner: City of Sarasota.

AQUIFER.--Tampa limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 445 ft, cased to 126 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 95.94 ft above National Geodetic Vertical Datum of 1929 (levels by City of Sarasota). Measuring point: Top of flange, 2.60 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--March 1964 to current year. Records of water levels prior to October 1975 are available in files of the Geological Survey. The figures of water level as elevation, in feet NGVD, prior to Oct. 1, 1977, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of -0.40 ft.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 43.27 ft NGVD, Apr. 30, 1964; lowest, 24.32 ft below NGVD, May 26, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	21.52	12.94	11.85	7.06	15.30	13.74	13.70	4.63	-4.76	11.22	16.85	15.83
10	22.75	10.58	11.88	9.56	14.70	12.88	14.27	5.75	-2.02	12.85	14.95	15.16
15	21.29	10.50	11.43	10.71	15.51	12.05	12.75	2.16	-2.70	15.95	15.89	16.58
20	18.36	9.45	11.81	11.94	13.01	12.11	13.49	- .31	2.98	14.21	16.69	17.16
25	16.57	9.73	9.26	14.67	12.53	11.75	10.91	-3.37	6.53	14.71	14.88	15.61
EOM	14.53	11.92	8.76	16.12	13.68	11.41	7.07	-1.55	8.23	15.96	14.99	15.15
MAX	22.75	14.13	12.71	16.12	16.24	14.92	14.27	6.84	8.62	16.31	16.86	17.41

WTR YR 1993    MAX 22.75

**WELL NUMBER.--272316082302601. Sarasota County Test Well No. 1 near Sarasota, FL.**

LOCATION.--Lat 27°23'16", long 82°30'26", in NE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.4, T.36 S., R.18 E., Hydrologic Unit 03100201, 1.4 mi east of U. S. Highway 301, and 4.1 mi northeast of Sarasota. Owner: Sarasota County.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120FLRD.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 4 in., depth 606 ft, cased to 350 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 34.00 ft above National Geodetic Vertical Datum of 1929 (levels by Sarasota County). Measuring point: Top of recorder shelter floor, 3.23 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--January 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 21.89 ft NGVD, Sept. 1, 5, 1986; lowest, 2.95 ft below NGVD, May 18, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	21.60	15.69	12.45	14.00	18.43	18.73	17.01	8.84	9.91	15.06	---	---
10	21.37	15.87	17.23	14.70	18.83	18.36	15.22	7.87	8.95	11.08	---	---
15	21.26	15.10	17.09	16.23	18.94	17.85	13.15	7.33	7.64	16.32	---	---
20	20.30	11.33	12.56	17.21	18.18	17.28	12.83	5.59	6.77	16.51	---	---
25	19.32	15.15	15.22	18.15	17.03	17.50	11.99	8.13	8.31	---	---	---
EOM	17.78	13.48	10.71	14.77	17.47	16.74	10.56	8.89	9.14	---	---	---
MAX	21.64	---	17.40	18.82	19.17	---	18.27	---	---	---	---	---

## WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

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## SARASOTA COUNTY

**WELL NUMBER.--272317082290502. Sarasota County Test Well 6A near Sarasota, FL.**

LOCATION.--Lat 27°23'17", long 82°29'05", in NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.3, T.36 S., R.18 E., Hydrologic Unit 03100201, 2.8 mi east of U. S. Highway 301, and 5.0 mi northeast of Sarasota. Owner: City of Sarasota.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120FLRD.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 4 in., depth 527 ft, cased to 392 ft.

INSTRUMENTATION.--Water-stage recorder--60-minute interval.

DATUM.--Elevation of land-surface datum is 27 ft, from topographic map. Measuring point: Top of recorder shelter floor, 3.00 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--October 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 19.36 ft NGVD, Oct. 12, 1992; lowest, 14.52 ft below NGVD, May 18, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993  
MAXIMUM VALUES

5	19.26	10.89	11.81	9.82	16.05	7.54	13.25	8.10	-3.19	12.02	---	---
10	18.86	11.57	14.24	9.21	7.15	4.63	14.04	7.17	5.16	12.64	---	---
15	19.04	2.43	13.83	11.02	6.90	13.61	13.29	6.34	4.78	12.66	---	---
20	17.42	10.16	3.98	12.21	5.43	3.51	12.97	4.42	6.29	13.74	---	---
25	16.24	10.56	11.94	13.32	4.56	12.19	12.19	2.00	8.30	---	---	---
EOM	5.89	11.15	10.02	15.05	5.07	13.02	11.02	3.07	9.73	---	---	---
MAX	19.36	14.23	14.43	15.20	16.05	15.19	15.18	9.16	10.68	---	---	---

MISCELLANEOUS WATER LEVEL MEASUREMENTS  
OCTOBER 1992 TO SEPTEMBER 1993

SARASOTA COUNTY

STATION NUMBER	STATION NAME	DATE	ELEV- ATION ABOVE NGVD (FEET)
265652082185801	ENGLEWOOD WELL 150 NR ENGLEWOOD, FL	05-17-93	7.63
		09-14-93	8.69
265653082190301	ENGLEWOOD WD PO 1	05-17-93	13.82
		09-14-93	14.25
265710082205101	ENGLEWOOD WD RD 2	05-17-93	2.93
		09-14-93	0.67
265712082205701	ENGLEWOOD WTR DT R-2	05-17-93	3.29
		09-14-93	5.14
265809082194001	ENGLEWOOD WELL 6	05-17-93	7.71
		09-14-93	8.77
265834082202401	ENGLEWOOD WELL 14	05-17-93	3.30
		09-14-93	7.34
270036082213401	ENGLEWOOD TEST C10	05-17-93	8.71
		09-14-93	9.82
270058082152502	N. PORT ON SITE MW	05-17-93	22.20
		09-14-93	23.60
270106082214101	ENGLEWOOD DEEP ZONE 3 NR ENGW FL	05-17-93	12.65
		09-14-93	13.12
270406082220102	PLANTATION SWNN WELL NR VENICE, FL	05-18-93	23.35
		09-14-93	24.25
270406082220103	PLANTATION UPPER HTRN WELL NR VENICE, FL	05-18-93	4.07
		09-14-93	5.68
270406082220104	PLANTATION TMIM WELL NR VENICE, FL	05-18-93	2.57
		09-14-93	5.17
270420082230502	VENICE GARDENS SWNN WELL NR VENICE, FL	05-18-93	24.25
		09-14-93	25.25
270420082230503	VENICE GARDENS HTRN WELL NR VENICE, FL	05-18-93	3.77
		09-14-93	7.22
270807082152701	MACARTHUR TRACT WELL 14FS NR MURDOCK, FL	05-20-93	34.55
		09-13-93	37.95
270807082152702	MACARTHUR TRACT WELL 14GS NR MURDOCK, FL	05-20-93	33.34
		09-13-93	36.84
270808082270502	ROMP TR5-1 SUWANNEE WELL AT LAUREL, FL.	05-18-93	19.09
		09-14-93	20.59
270808082270503	ROMP TR5-1 HAWTHORN WELL AT LAUREL, FL.	05-18-93	9.00
		09-14-93	10.84
270814082192701	MACARTHUR TRACT WELL 3F NR MURDOCK, FL	05-20-93	31.33
		09-16-93	34.53
270814082192702	MACARTHUR TRACT WELL 3E NR MURDOCK, FL	05-20-93	20.47
		09-16-93	20.76
270822082231101	HENRY RANCH WELL 1 NR MURDOCK, FL	05-18-93	14.97
270840082225101	HENRY RANCH WELL 3 NR VENICE, FL	05-18-93	11.35

MISCELLANEOUS WATER LEVEL MEASUREMENTS  
OCTOBER 1992 TO SEPTEMBER 1993

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SARASOTA COUNTY

STATION NUMBER	STATION NAME	DATE	ELEV- ATION ABOVE NGVD (FEET)
270902082193109	CLUSTER 21 HAWTHORN MONITOR W RMR NR LAUREL FLA	05-20-93	16.96
		09-16-93	16.95
270931082252901	38S19E20 70922501 411	05-18-93	18.10
		09-14-93	22.00
270933082154901	MACARTHUR TRACT WELL 14FN NR MURDOCK, FL	05-20-93	35.36
		09-13-93	40.20
270934082252801	MYAKKA RIVER NURSERY WELL NR MURDOCK, FL	05-18-93	6.89
		09-14-93	7.59
271015082122901	MACARTHUR TRACT WELL 20F NR MURDOCK, FL	05-19-93	34.66
		09-13-93	39.00
271015082122902	RMR WELL 20C NR SARASOTA, FL 256 FT	05-19-93	33.56
		09-13-93	38.00
271021082151601	ROMP 19ELAM WELL NEAR SARASOTA, FL	05-19-93	33.17
		09-13-93	37.05
271021082151602	ROMP 19 EUAM WELL NEAR SARASOTA, FL	05-19-93	30.13
		09-13-93	30.85
271035082285901	SOUTHBAY UTILITIES DEEP WELL NR OSPREY FL	05-19-93	14.13
		09-14-93	15.01
271059082173901	MACARTHUR TRACT WELL 6F NR MURDOCK, FL	05-19-93	28.13
		09-13-93	32.28
271059082173902	MACARTHUR TRACT WELL 6E NR MURDOCK, FL	05-19-93	26.14
		09-13-93	27.19
271118082082401	MABRY CARLTON WELL 16 NEAR MYAKKA CITY, FL	05-19-93	33.31
		09-13-93	35.27
271137082074801	SWFWMD R-18-1	05-19-93	37.50
		09-13-93	41.86
271222082295201	SARASOTA COUNTY HISTORICAL SOCIETY WELL	05-17-93	7.67
		09-13-93	7.81
271242082171501	RING-MAC 10-F FLRD WELL NR SARASOTA, FL	05-19-93	28.12
		09-13-93	33.96
271242082171502	RING-MAC 10-E HTRN WELL NR SARASOTA, FL	05-19-93	19.22
		09-13-93	25.56
271348082221801	BUCK HAWKINS WELL NR SARASOTA, FL	05-19-93	12.35
271422082150201	2202	05-19-93	28.32
		09-13-93	32.93
271522082165801	PALMER WELL NR SARASOTA, FL	05-19-93	13.53
		09-13-93	16.89
271717082332601	MARTIN D WELL AT SIESTA KEY	05-18-93	12.70
		09-13-93	15.60
271757082241301	BEE RIDGE WELL 15 NR SARASOTA, FLA	05-19-93	11.06
		09-13-93	24.47
272127082295301	KENSINGTON PARK WELL 1 NR SARASOTA, FL	05-18-93	8.40
		09-13-93	16.35

MISCELLANEOUS WATER LEVEL MEASUREMENTS  
OCTOBER 1992 TO SEPTEMBER 1993

SARASOTA COUNTY

STATION NUMBER	STATION NAME	DATE	ELEV- ATION ABOVE NGVD (FEET)
272206082151101	VERNA W T WELL 23	05-17-93	63.37
		09-14-93	65.70
272219082151701	VERNA PROD WELL 37	09-14-93	17.58
272247082170201	VERNA PROD WELL 23	05-17-93	-8.39
272248082171901	VERNA PROD. WELL 20	09-14-93	29.19
272253082195402	VERNA W T WELL 1	05-17-93	61.39
272254082234901	N.E. SCHROEDER-MANATEE FLRD WELL NR SARASOTA, FL	09-13-93	16.74
272257082165401	VERNA PROD WELL 24	05-17-93	-10.30
272305082190301	VERNA PROD WELL 1	05-17-93	-4.30
		09-14-93	14.25
272317082302402	CNTY PUMP STATION 1 3 INCH WELL NR SARASOTA, FL	05-18-93	6.51
		09-13-93	15.62

# QUALITY OF GROUND WATER

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WATER QUALITY DATA, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

## SARASOTA COUNTY

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
271021082151603 - ROMP 19 ES WELL NEAR SARASOTA, FL (LAT 27 10 21N LONG 082 15 16W)											
JUN											
21...	1330	938	6.9	23.5	30	110	24	52	0.56	100	60
AUG											
04...	1236	930	6.8	23.5	--	110	26	52	0.58	110	64
19...	1115	930	6.8	23.5	--	--	--	--	--	--	--

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)
271021082151603 - ROMP 19 ES WELL NEAR SARASOTA, FL (LAT 27 10 21N LONG 082 15 16W)										
JUN										
21...	0.30	20	616	--	--	--	--	--	--	400
AUG										
04...	0.30	19	524	--	--	--	--	--	--	440
19...	--	--	--	<0.010	<0.020	0.400	0.91	0.110	0.030	--

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
271134082092201 BIG SLOUGH DP WELL (LAT 27 11 34N LONG 082 09 22W)						
MAY 1993						
04...	1345	946	26.0	74	110	606
271134082092202 BIG SLOUGH SH. (LAT 27 11 34N LONG 082 09 22W)						
MAY 1993						
04...	1315	840	28.5	82	54	538

## QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

## SARASOTA COUNTY

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
272038082292401 BOBBY JONES WELL 3 NR SARASOTA, FL (LAT 27 20 38N LONG 082 29 24W)							
JUN 1993							
22...	1030	1070	26.5	<5	120	45	32
272225082153501 VERNA PROD WELL 33 (LAT 27 22 25N LONG 082 15 35W)							
JUN 1993							
23...	1555	1010	28.0	<5	120	56	14
272248082162801 VERNA PROD WELL 29 (LAT 27 22 48N LONG 082 16 28W)							
JUN 1993							
23...	1530	1110	27.0	<5	130	63	14
272248082182701 CITY SARASOTA 8 (LAT 27 22 48N LONG 082 18 27W)							
JUN 1993							
23...	1400	955	27.5	<5	110	54	19
272256082163501 VERNA PROD WELL 27 (LAT 27 22 56N LONG 082 16 35W)							
JUN 1993							
23...	1500	1120	27.5	<5	140	58	16
272257082165401 VERNA PROD WELL 24 (LAT 27 22 57N LONG 082 16 54W)							
JUN 1993							
24...	1050	1090	27.0	<5	170	75	14
272257082174401 VERNA PROD WELL 15 (LAT 27 22 57N LONG 082 17 44W)							
JUN 1993							
23...	1430	1230	27.5	<5	150	70	15
272257082185401 VERNA PROD WELL 3 (LAT 27 22 57N LONG 082 18 54W)							
JUN 1993							
22...	1155	965	27.0	<5	110	47	20

# QUALITY OF GROUND WATER

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## WATER QUALITY DATA, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

### SARASOTA COUNTY

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)
------	---	---	---	--	---	--	--

272038082292401 BOBBY JONES WELL 3 NR SARASOTA, FL (LAT 27 20 38N LONG 082 29 24W)

JUN 1993							
22...	4.9	370	52	1.5	29	870	21000

272225082153501 VERNA PROD WELL 33 (LAT 27 22 25N LONG 082 15 35W)

JUN 1993							
23...	2.6	380	17	1.0	25	838	10000

272248082162801 VERNA PROD WELL 29 (LAT 27 22 48N LONG 082 16 28W)

JUN 1993							
23...	2.7	450	17	1.0	24	908	13000

272248082182701 CITY SARASOTA 8 (LAT 27 22 48N LONG 082 18 27W)

JUN 1993							
23...	2.9	340	24	1.5	32	780	14000

272256082163501 VERNA PROD WELL 27 (LAT 27 22 56N LONG 082 16 35W)

JUN 1993							
23...	2.3	430	15	0.80	27	926	7800

272257082165401 VERNA PROD WELL 24 (LAT 27 22 57N LONG 082 16 54W)

JUN 1993							
24...	2.7	540	18	1.1	24	1080	10000

272257082174401 VERNA PROD WELL 15 (LAT 27 22 57N LONG 082 17 44W)

JUN 1993							
23...	3.0	520	20	1.3	25	1060	18000

272257082185401 VERNA PROD WELL 3 (LAT 27 22 57N LONG 082 18 54W)

JUN 1993							
22...	3.1	320	26	1.3	33	774	21000



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## CONVERSION FACTORS AND VERTICAL DATUM

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

*Sea level:* In this report “sea level” refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment for the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

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