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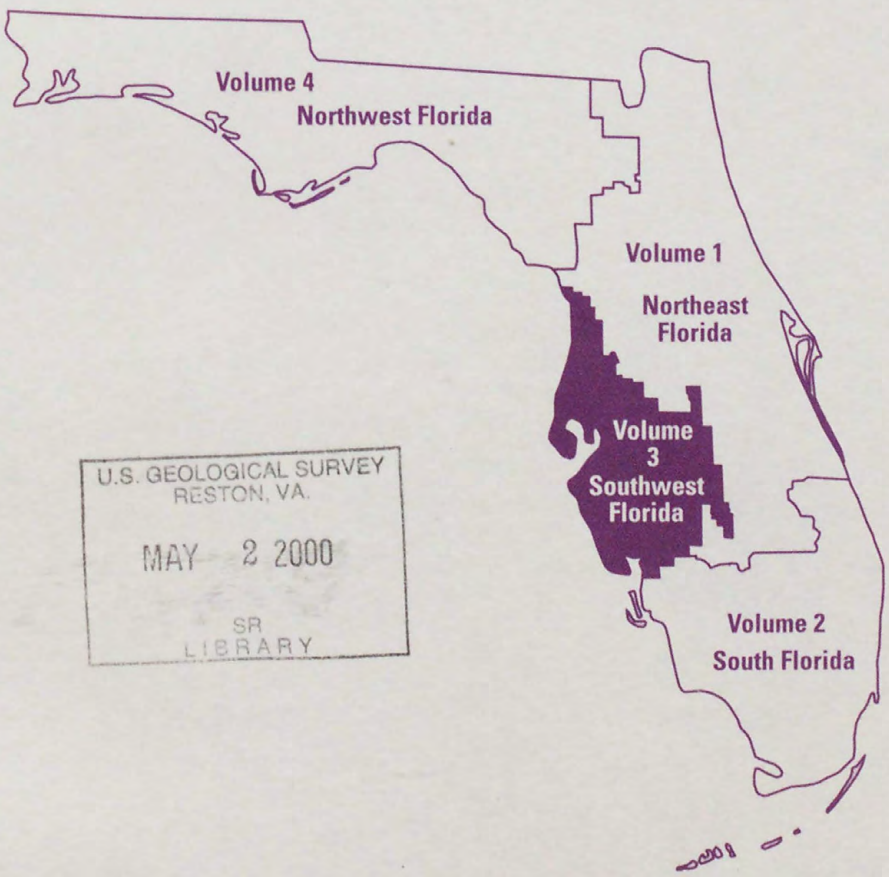
Water Resources Data Florida Water Year 1999

Volume 3B. Southwest Florida Ground Water

Water-Data Report FL-99-3B



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

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

CALENDAR FOR WATER YEAR 1999

1998

OCTOBER

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
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NOVEMBER

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1999

JANUARY

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31						

FEBRUARY

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28						

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AUGUST

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SEPTEMBER

S	M	T	W	T	F	S
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5	6	7	8	9	10	11
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19	20	21	22	23	24	25
26	27	28	29	30		

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

Water Resources Data Florida Water Year 1999

Volume 3B. Southwest Florida Ground Water

By J.E. Coffin and W.L. Fletcher

Water-Data Report FL-99-3B

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

Charles G. Groat, Director

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

For additional information write to
District Chief, Water Resources Division
U.S. Geological Survey
227 North Bronough Street, Suite 3015
Tallahassee, Florida 32301

2000

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 C. R. Goodwin, District Chief, Florida.

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13. ABSTRACT *(Maximum 200 words)*

Water resources data for the 1999 water year in Florida consist of continuous or daily discharges for 354 streams, periodic discharge for 17 streams, continuous daily stage for 121 streams, periodic stage for 1 streams, peak stage and discharge for 38 streams, continuous or daily elevations for 21 lakes, periodic elevations for 42 lakes; continuous ground-water levels for 408 wells, periodic ground-water levels for 1,715 wells, and quality-of-water data for 131 surface-water sites and 198 wells.

The data for Southwest Florida include 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 for 133 wells; periodic ground-water elevations at 38 wells; miscellaneous ground-water elevations at 528 wells; and water quality at 6 ground-water sites.

These data represent the national Water Data System records collected by the U.S. Geological Survey and cooperating local, state, and federal agencies in Florida.

14. SUBJECT TERMS
*Florida, *Hydrologic data, *Surface Water, *Ground Water, *Water Quality, Flow-rate, Gaging stations, Lakes, Reservoirs, Chemical analyses, Sediments, Water Temperatures, Sampling sites, Water Levels, Water analyses, Elevations, Water wells.

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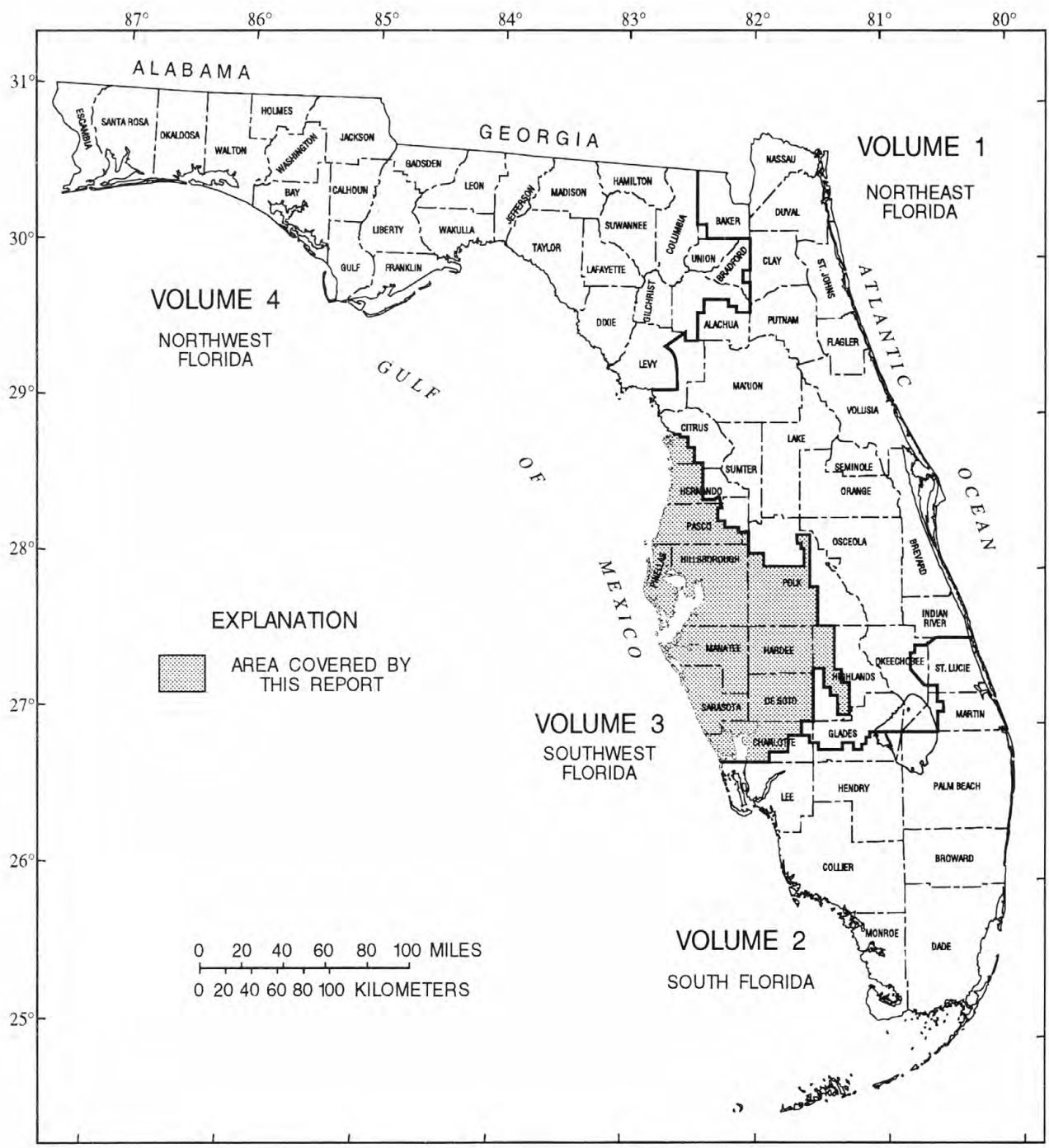


Figure 1.--Geographic area covered by this report.

INTRODUCTION

The Water Resources Division of the U.S. Geological Survey, in cooperation with local, State, and Federal agencies, obtains a large amount of data pertaining to the water resources of Florida each water year. These data, accumulated during many water years, constitute a valuable data base for developing an improved understanding of the water resources of the State. To make these data readily available to interested parties outside the 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, and 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 133 wells; periodic ground-water elevations at 38 wells; miscellaneous ground-water elevations at 528 wells; and water-quality at 6 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 local, 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 U.S. Geological Survey, Branch of Information Services, Box 25286, Federal Center, 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-99-3B." 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.

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 (850) 942-9500.

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
Tampa Bay Water
County of Hillsborough
County of Sarasota
City of Sarasota
City of Tampa

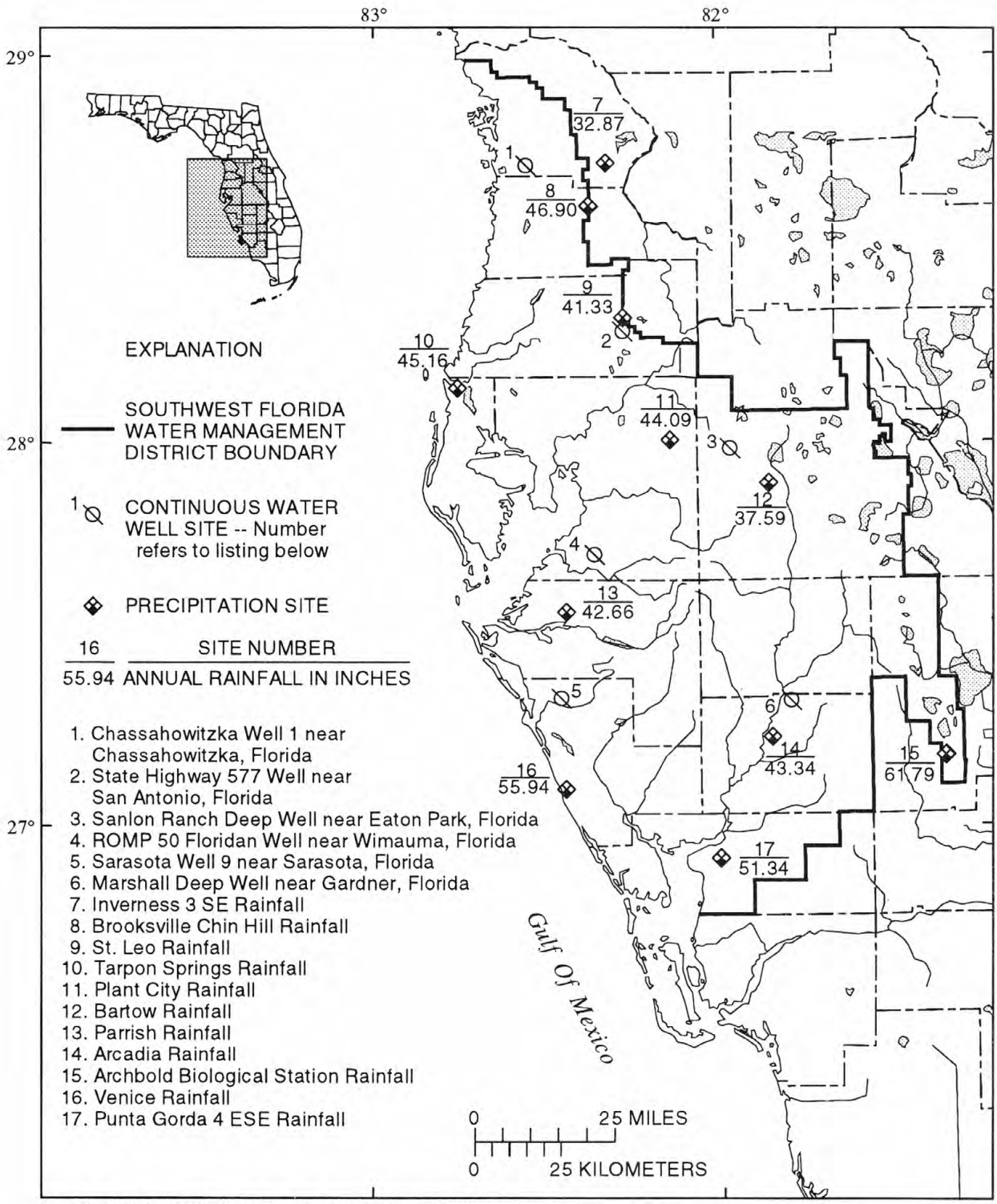
SUMMARY OF HYDROLOGIC CONDITIONS

During the 1999 water year, rainfall at 11 National Oceanic and Atmospheric Administration (NOAA) stations in west-central Florida (fig. 2) ranged from 32.87 inches at Inverness in Citrus County (site 7) to 61.79 inches at Archbold Biological Station in Highlands County (site 15). The 1999 water year total rainfall was higher at three long-term stations and lower at eight long-term stations than the 1961-90 normal. Total rainfall at the 11 stations ranged from 20.53 inches below normal at Inverness (site 7) to 12.10 inches above normal at Archbold Biological Station (site 15).

Generally, water levels are lowest in May at the height of the spring dry season. 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 1999 water year and monthly maximum, median, and minimum 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 tidal fluctuations.



Base from U.S. Geological Survey digital data, 1:2,000,000, 1972
Albers Equal-Area Conic projection
Standard Parallels 29°30′and 45°30′, central meridian –83°00′

Figure 2.--Hydrologic conditions index map.

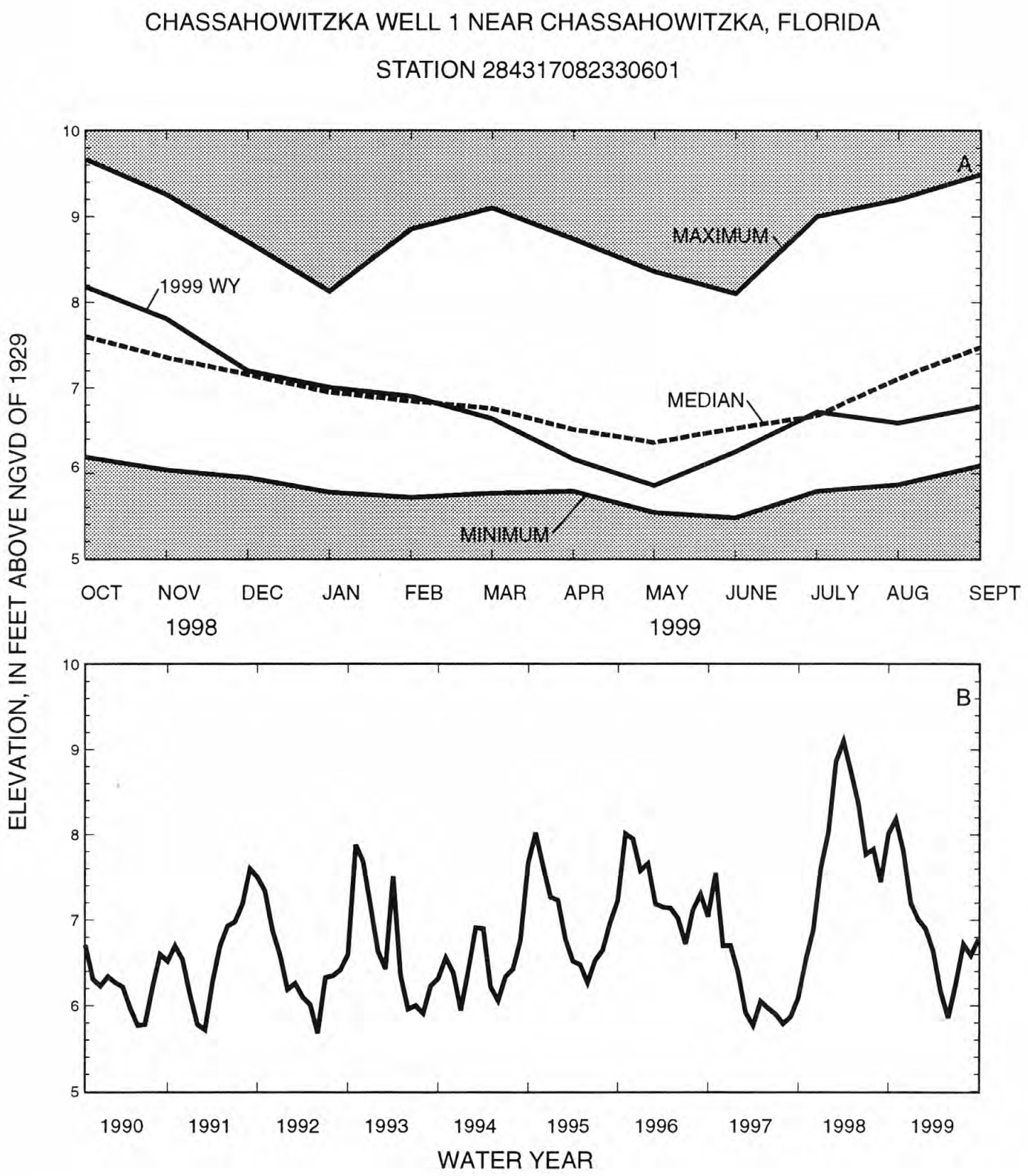


Figure 3.--Chassahowitzka well 1 near Chassahowitzka, Upper Floridan aquifer, (A) 1999 monthly mean elevation compared to the maximum, median, and minimum monthly mean elevation for the period of record, and (B) the monthly mean elevation for the period 1990-1999.

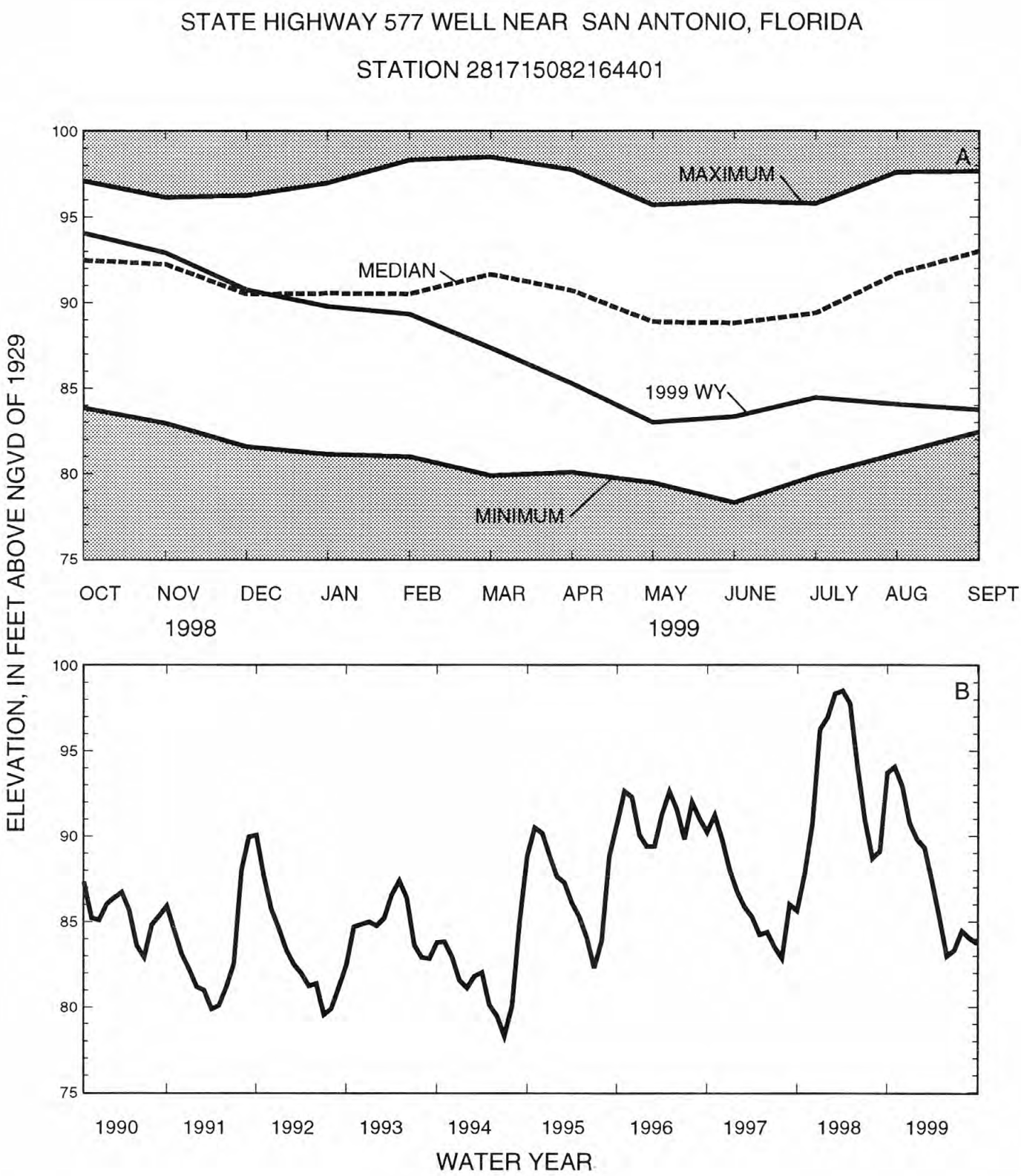


Figure 4.--State Highway 577 well near San Antonio, Upper Floridan aquifer, (A) 1999 monthly mean elevation compared to the maximum, median, and minimum monthly mean elevation for the period of record, and (B) the monthly mean elevation for the period 1990-1999.

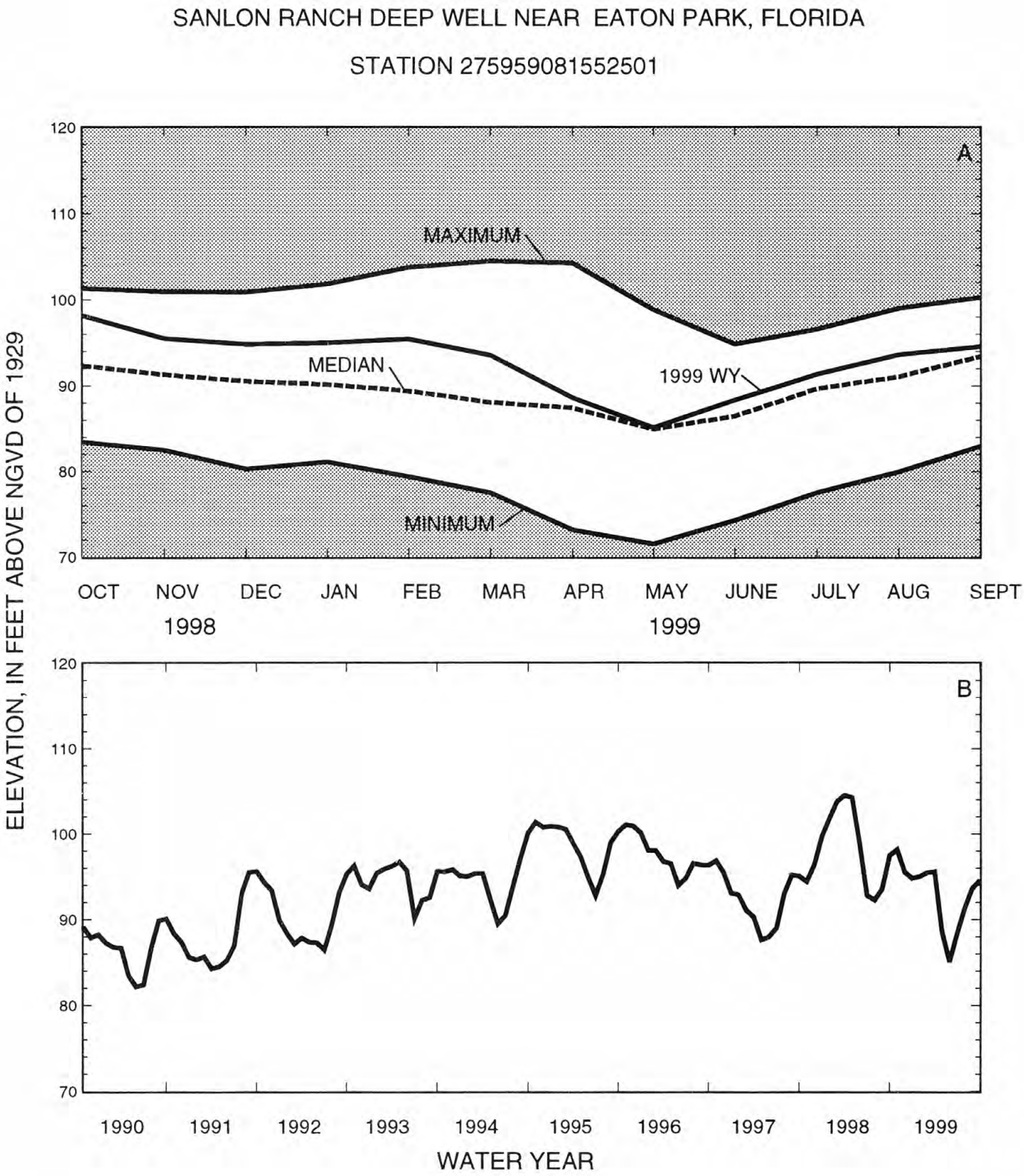


Figure 5.--Sanlon Ranch deep well near Eaton Park, Upper Floridan aquifer, (A) 1999 monthly mean elevation compared to the maximum, median, and minimum monthly mean elevation for the period of record, and (B) the monthly mean elevation for the period 1990-1999.

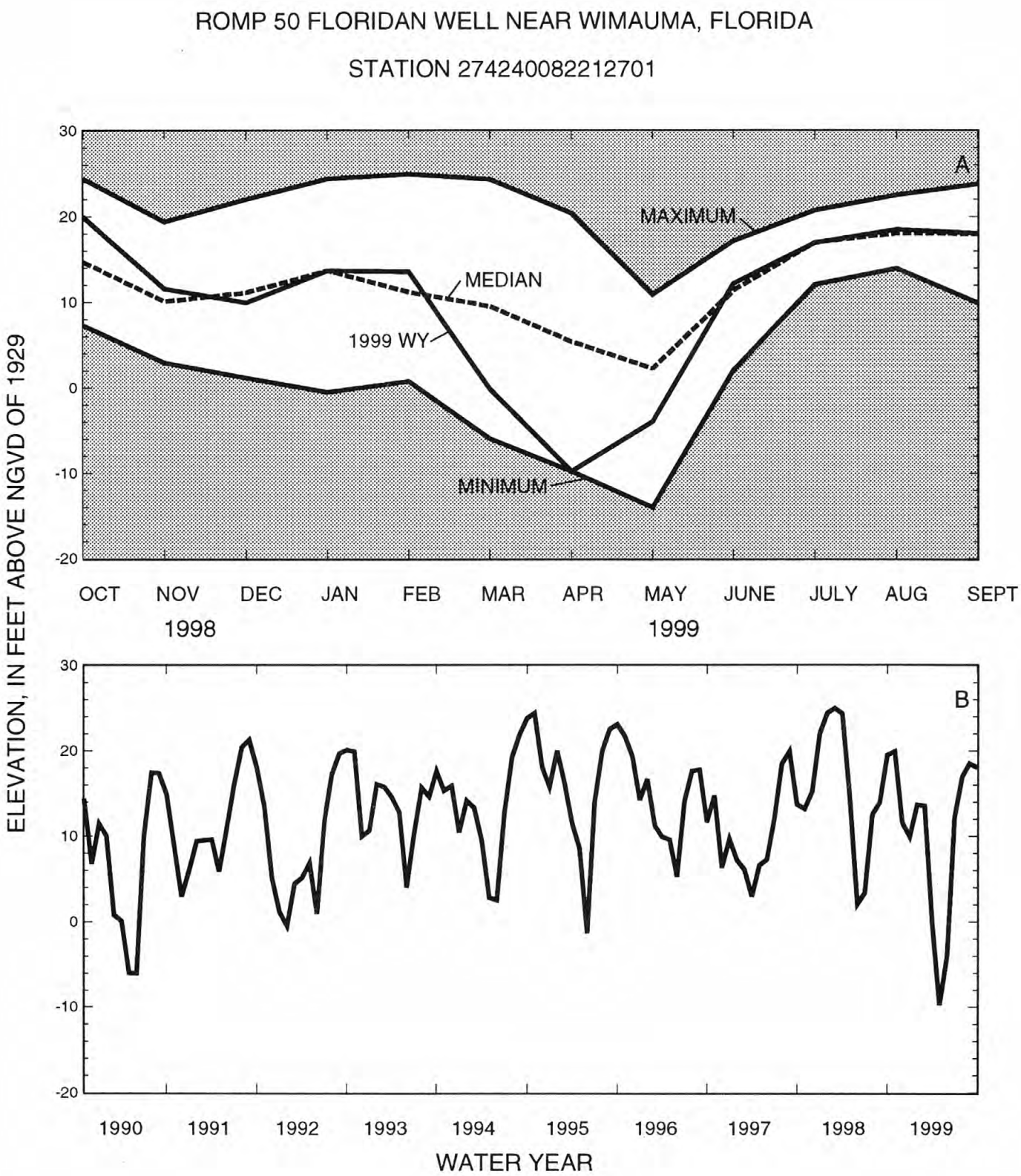


Figure 6.--ROMP 50 Floridan well near Wimauma, Upper Floridan aquifer, (A) 1999 monthly mean elevation compared to the maximum, median, and minimum monthly mean elevation for the period of record, and (B) the monthly mean elevation for the period 1990-1999.

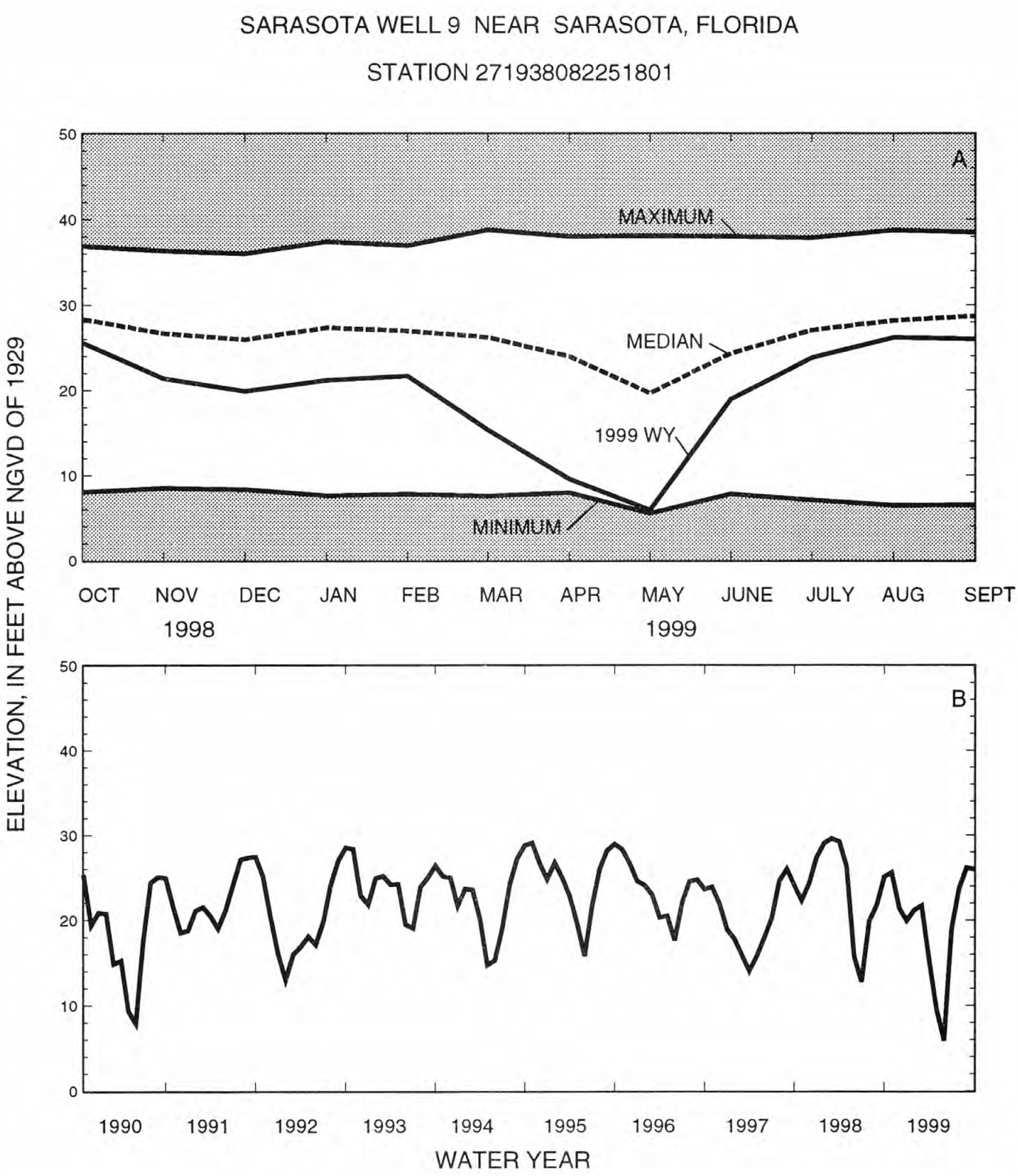


Figure 7.--Sarasota well 9 near Sarasota, Upper Floridan aquifer, (A) 1999 monthly mean elevation compared to the maximum, median, and minimum monthly mean elevation for the period of record, and (B) the monthly mean elevation for the period 1990-1999.

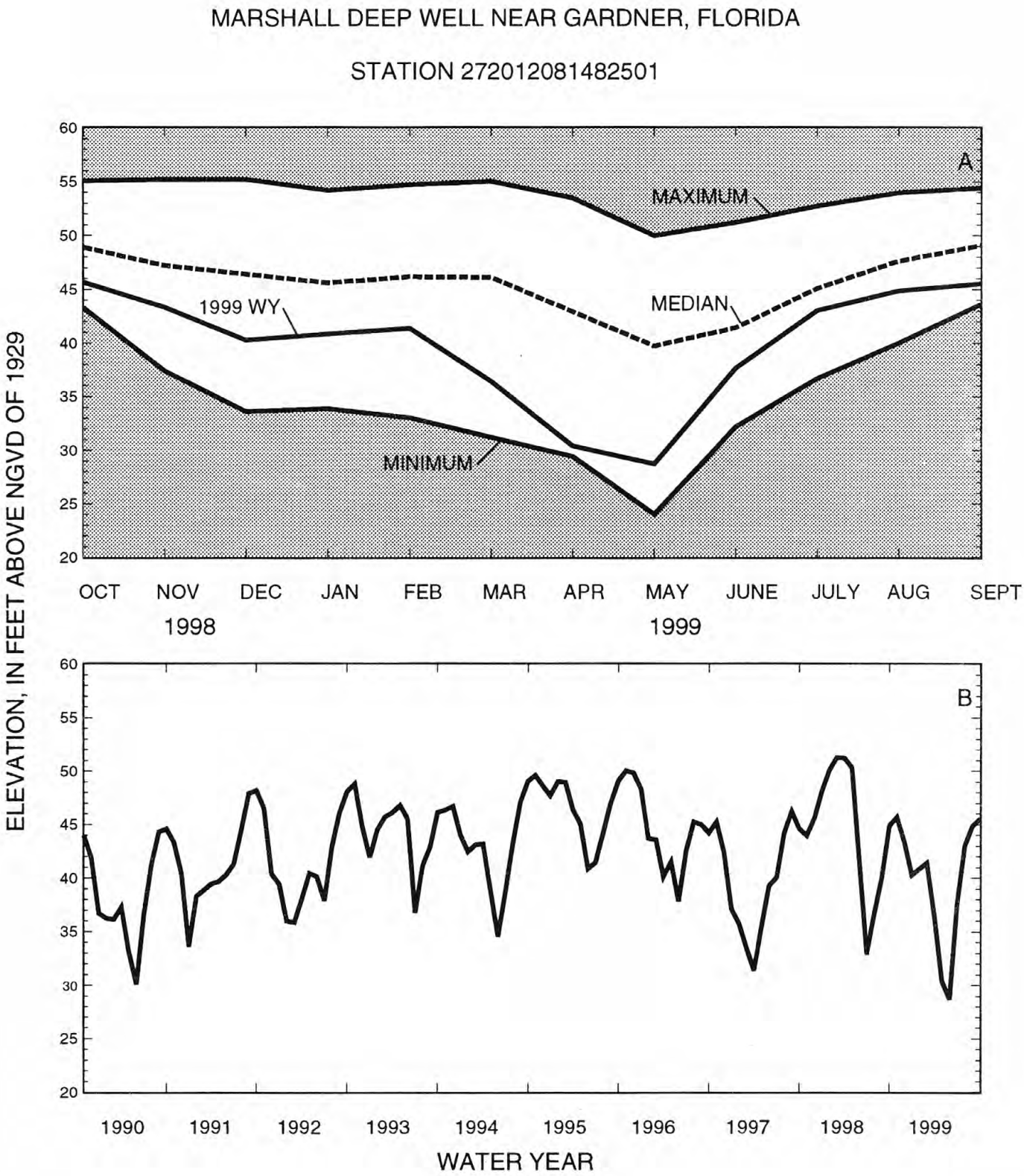


Figure 8.--Marshall deep well near Gardner, Upper Floridan aquifer, (A) 1999 monthly mean elevation compared to the maximum, median, and minimum monthly mean elevation for the period of record, and (B) the monthly mean elevation for the period 1990-1999.

EXPLANATION OF THE RECORDS

The ground-water records published in this report are for the 1999 water year that began October 1, 1998, and ended September 30, 1999. 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.)

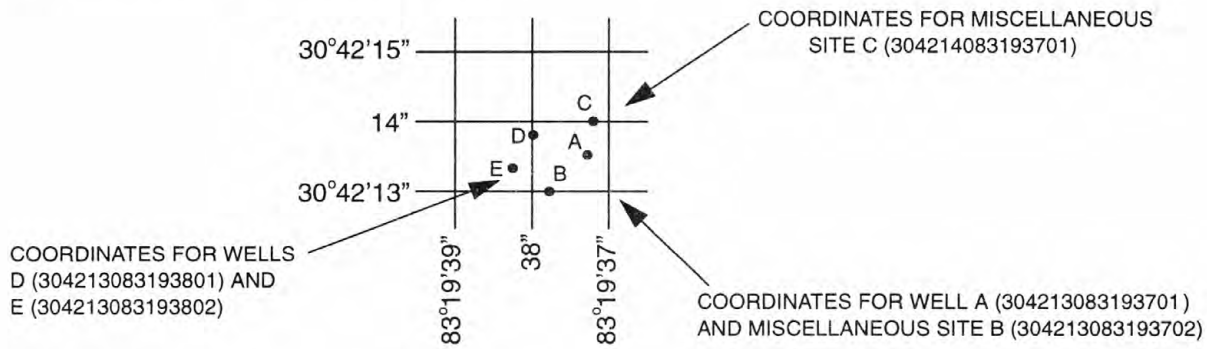


Figure 9.--System for numbering wells and miscellaneous sites.
(latitude and longitude)

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 electronic data loggers 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 manuscript. 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 electronic data logger. 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 electronic data loggers 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. Periods for which datum corrections need to be applied are described in this entry.

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 electronic data loggers, 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 electronic data loggers, 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 TWRI publications referred to in the "On-site Measurements and Sample Collection" and the "Laboratory Measurements" sections in this data report. In addition, the TWRI Book 1, Chapter D2, describes guidelines for the collection and field analysis of ground-water samples for selected unstable constituents. The values reported in this report represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. These methods are consistent with ASTM standards and generally follow ISO standards. All samples were

obtained by trained personnel. The wells sampled were pumped long enough to assure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material 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:

PRINTED OUTPUT	REMARK
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
V	Analyte was detected in both the environmental sample and the associated blanks

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 USGS WATER DATA

The USGS provides near real-time stage and discharge data for many of the gaging stations equipped with the necessary telemetry and historic daily-mean and peak-flow discharge data for most current or discontinued gaging stations through the world wide web (WWW). These data may be accessed at

http://water.usgs.gov

Some water-quality and ground-water data also are available through the WWW. In addition, data can be provided in various machine-readable formats. 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 District Offices (See address on the back of the title page.)

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.

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.

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 micron (um) 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 ($CaCO_3$).

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.

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 liter (UG/L, µg/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.

Parameter Code is a 5-digit number used in the U.S. Geological Survey's data system, National Water Information System (NWIS), to uniquely identify a specific constituent. The codes used in NWIS are the same as those used in the U.S. Environmental Protection Agency's data system, STORET.

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 (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

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.

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, and it may vary in the same source with changes in the composition of the water.

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, 1999 is called the "1999 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 abbreviation 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, Branch of Information Services, Box 25286, Federal Center, 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."

Book 1. Collection of Water Data by Direct Measurement

Section D. Water Quality

1-D1. *Water temperature—influential factors, field measurement, and data presentation*, by H.H. Stevens, Jr., J.F. Ficke, 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.

Book 2. Collection of Environmental Data

Section D. Surface Geophysical Methods

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.

Section E. Subsurface Geophysical Methods

2-E1. *Application of borehole geophysics to water-resources investigations,* by W.S. Keys and L.M. MacCary: 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.

Section F. Drilling and Sampling Methods

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.

Book 3. Applications of Hydraulics

Section A. Surface-Water Techniques

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 measurement 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-Al0. *Discharge ratings at gaging stations,* by E.J. Kennedy: USGS–TWRI Book 3, Chapter A10. 1984. 59 pages.

3-A11. *Measurement of discharge by the 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*, Revised, by J.F. Wilson, Jr., E.D. Cobb, and F.A. Kilpatrick: USGS–TWRI Book 3, Chapter A12. 1986. 34 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. Rathbun, Nobuhiro Yotsukura, G.W. Parker, and L.L. DeLong: USGS–TWRI Book 3, Chapter A18. 1989. 52 pages.

3-A19. *Levels at streamflow gaging stations*, by E.J. Kennedy: USGS–TWRI Book 3, Chapter A19. 1990. 31 pages.

3-A20. *Simulation of soluble waste transport and buildup in surface waters using tracers*, by F.A. Kilpatrick: USGS–TWRI Book 3, Chapter A20. 1993. 38 pages.

3-A21 *Stream-gaging cableways,* by C. Russell Wagner: USGS–TWRI Book 3, Chapter A21. 1995. 56 pages.

Section B. Ground-Water Techniques

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 programed 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. 190 pages.

Section C. Sedimentation and Erosion Techniques

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.

Book 4. Hydrologic Analysis and Interpretation

Section A. Statistical Analysis

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.

Section B. Surface Water

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.

Section D. Interrelated Phases of the Hydrologic Cycle

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.

Book 5. Laboratory Analysis

Section A. Water Analysis

5-A1. *Methods for determination of inorganic substances in water and fluvial sediments,* by M.J. Fishman and L.C. Friedman, editors: 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.

Section C. Sediment Analysis

5-C1. *Laboratory theory and methods for sediment analysis,* by H.P. Guy: USGS–TWRI Book 5, Chapter C1. 1969. 58 pages.

Book 6. Modeling Techniques

Section A. Ground Water

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-flow problems, Part 3: Design philosophy and programming details,* by L.J. Torak: USGS–TWRI Book 6, Chapter A5, 1993. 243 pages.

6-A6. A coupled surface-water and ground-water flow model (MODBRANCH) for simulation of stream-aquifer interaction, by Eric D. Swain and Eliezer J. Wexler. 1996. 125 pages.

Book 7. Automated Data Processing and Computations

Section C. Computer Programs

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.

Book 8. Instrumentation

Section A. Instruments for Measurement of Water Level

8-A1. *Methods of measuring water levels in deep wells,* by M.S. Garber and F.C. Koopman: USGS–TWRI Book 8, Chapter A1. 1968. 23 pages.

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.

Section B. Instruments for Measurement of Discharge

8-B2. *Calibration and maintenance of vertical-axis type current meters,* by G.F. Smoot and C.E. Novak: USGS–TWRI Book 8, Chapter B2. 1968. 15 pages.

Book 9. Handbooks for Water-Resources Investigations

Section A. National Field Manual for the Collection of Water-Quality Data

9-A1. *National Field Manual for the Collection of Water-Quality Data: Preparations for Water Sampling*, by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI Book 9, Chapter A1. 1998. 47 p.

9-A2. *National Field Manual for the Collection of Water-Quality Data: Selection of Equipment for Water Sampling*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI Book 9, Chapter A2. 1998. 94 p.

9-A3. *National Field Manual for the Collection of Water-Quality Data: Cleaning of Equipment for Water Sampling*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI Book 9, Chapter A3. 1998. 75 p.

9-A4. *National Field Manual for the Collection of Water-Quality Data: Collection of Water Samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI Book 9, Chapter A4. 1999. 152 p.

9-A5. *National Field Manual for the Collection of Water-Quality Data: Processing of Water Samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI Book 9, Chapter A5. 1999, 149 p.

9-A6. *National Field Manual for the Collection of Water-Quality Data: Field Measurements*, edited by F.D. Wilde and D.B. Radtke: USGS–TWRI Book 9, Chapter A6. 1998. Variously paginated.

9-A7. *National Field Manual for the Collection of Water-Quality Data: Biological Indicators*, by D.N. Myers and F.D. Wilde: USGS–TWRI Book 9, Chapter A7.1. 1997. 49 pages.

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9-A8. *National Field Manual for the Collection of Water-Quality Data: Bottom-Material Samples*, by D.B. Radtke: USGS–TWRI Book 9, Chapter A8. 1998. 48 pages.

9-A9. *National Field Manual for the Collection of Water-Quality Data: Safety in Field Activities*, by S.L. Lane and R.G. Fay: USGS–TWRI Book 9, Chapter A9. 1998. 60 pages.

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WELL DESCRIPTIONS AND GROUND-WATER DATA

KEY TO SITE LOCATIONS ON FIGURE 10

CHARLOTTE COUNTY

INDEX NUMBER	SITE NUMBER	PAGE NUMBER
1	265138082002201	24

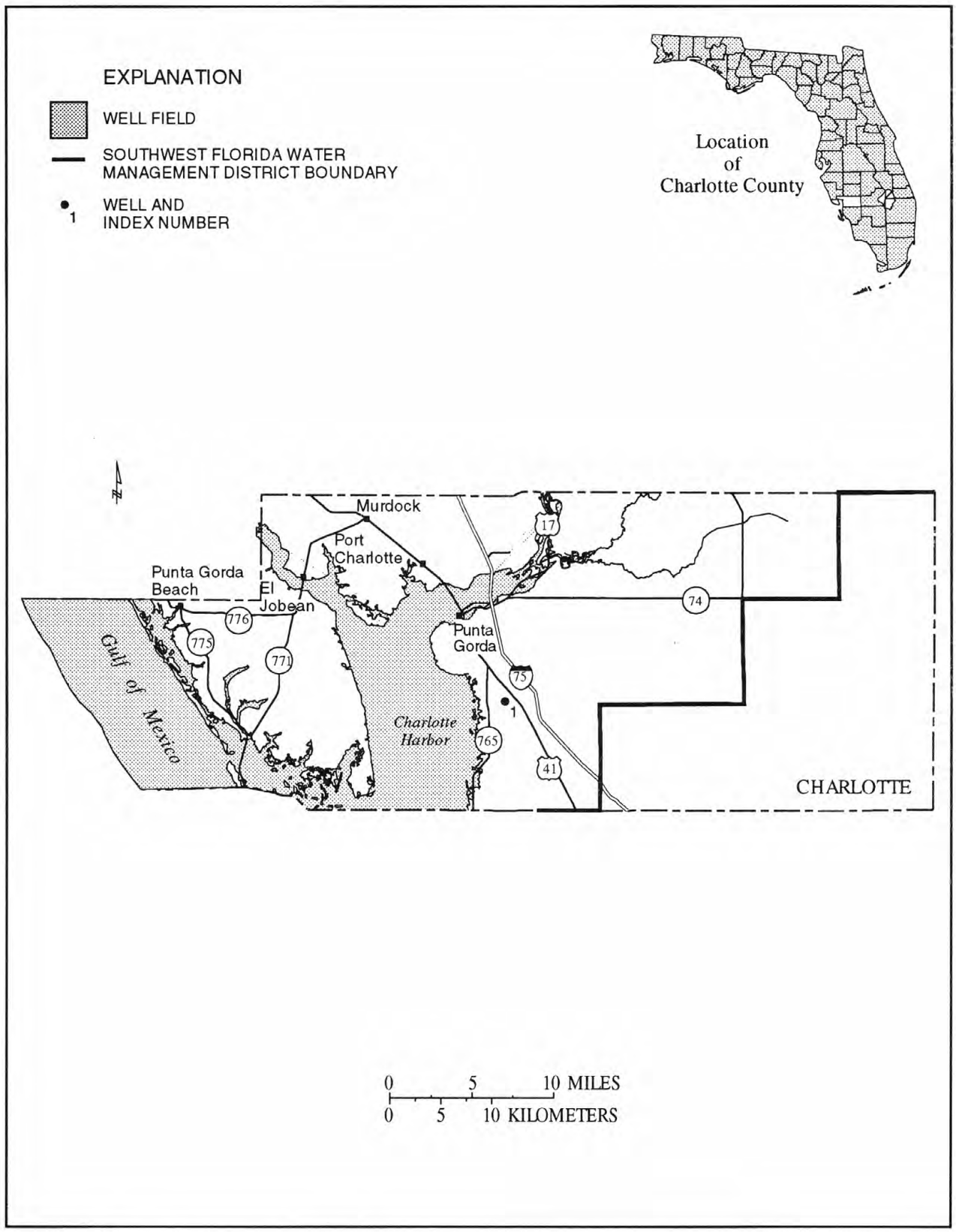

Figure 10.-- Location of wells in Charlotte County.

CHARLOTTE COUNTY

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

LOCATION.--Lat 26°51'38", long 82°00'22", in $SW^1/_4SW^1/_4$ 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 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	1.48	1.61	6.06	-1.51	-5.98	-5.37	7.00	10.81	10.12	11.08
10	---	6.82	.55	6.23	2.53	-4.00	-3.90	-8.30	7.21	10.92	10.40	10.53
15	---	4.96	3.31	7.96	1.71	-4.04	---	.42	8.49	11.00	10.80	11.02
20	---	2.59	-.52	8.31	2.23	-4.84	---	-3.11	9.60	11.23	10.87	11.39
25	---	3.99	1.64	7.47	3.06	-7.02	---	1.64	9.44	11.38	11.40	11.55
EOM	---	7.45	2.71	7.42	.55	-7.31	-5.64	5.05	10.23	11.33	11.17	11.65
MAX	---	---	6.36	8.47	7.67	-.31	---	5.05	10.23	11.38	11.47	11.65

CHARLOTTE COUNTY

STATION NUMBER	STATION NAME	DATE	ELEV-ATION ABOVE NGVD (FEET) (72020)
265004081581901	42S23E12 HERRIN NVR 1 FL	05-11-99	23.26
		09-14-99	26.99
265017082153701	42S20E12 65021501241 FL	05-10-99	14.40
		09-13-99	16.00
265257081444101	BABCOCK 5 NEAR PUNTA GORDA FL	05-11-99	33.45
265504082000601	41S23E10 USGS C3 343 FL	05-11-99	4.04
		09-14-99	12.52
265531082194803	ROMP TR3-3 SUWANNEE WELL NEAR ENGLEWOOD FL	05-10-99	17.05
		09-13-99	19.05
265531082194804	ROMP TR3-3 LOWER HAWTHORN WELL NR ENGLEWOOD FL	05-10-99	17.30
		09-13-99	19.80
265531082194805	ROMP TR3-3 UPPER HAWTHORN WELL NR ENGLEWOOD FL	05-10-99	10.46
		09-13-99	12.80
265633082015201	BROWNS DEEP WELL AT PUNTA GORDA FL	05-10-99	39.00
		09-13-99	43.30
265638082130703	ROMP TR3-1 UPPER HAWTHORN MONITOR NR EL JOBEAN FL	05-10-99	10.79
		09-13-99	13.02
265638082130705	ROMP TR3-1 LOWER HAWTHORN MON.NR EL JOBEAN,FL	05-10-99	27.49
		09-13-99	31.15
265638082130706	ROMP TR3-1 SUWANNEE MONITOR NEAR EL JOBEAN FL	05-10-99	29.28
		09-13-99	32.85
265644081483303	ROMP 5-MW3 WELL NEAR BERMONT FL	05-11-99	46.96
		09-14-99	50.54
265644081483304	ROMP 5-MW2 WELL NEAR BERMONT FL	05-11-99	26.93
		09-14-99	35.50
265644081483305	ROMP 5-MW5 WELL NEAR BERMONT FL	09-14-99	37.71
265646081554501	ST HWY 74 DEEP NEAR PUNTA GORDA FL	05-11-99	22.81
		09-14-99	24.18
265837081561101	ROMP 11 HAWTHORN WELL NEAR PUNTA GORDA FL	05-12-99	21.60
		09-14-99	24.80
270152082002806	ROMP 10 TAMPA WELL NEAR PORT CHAROLTTE FL	05-10-99	54.30
		09-13-99	59.20
270152082002807	ROMP 10 HAWTHORN WELL NEAR PORT CHAROLTTE FL	05-10-99	26.09
		09-13-99	32.10

KEY TO SITE LOCATIONS ON FIGURE 11

CITRUS COUNTY

INDEX NUMBER	SITE NUMBER	PAGE NUMBER
1	284317082330601	28

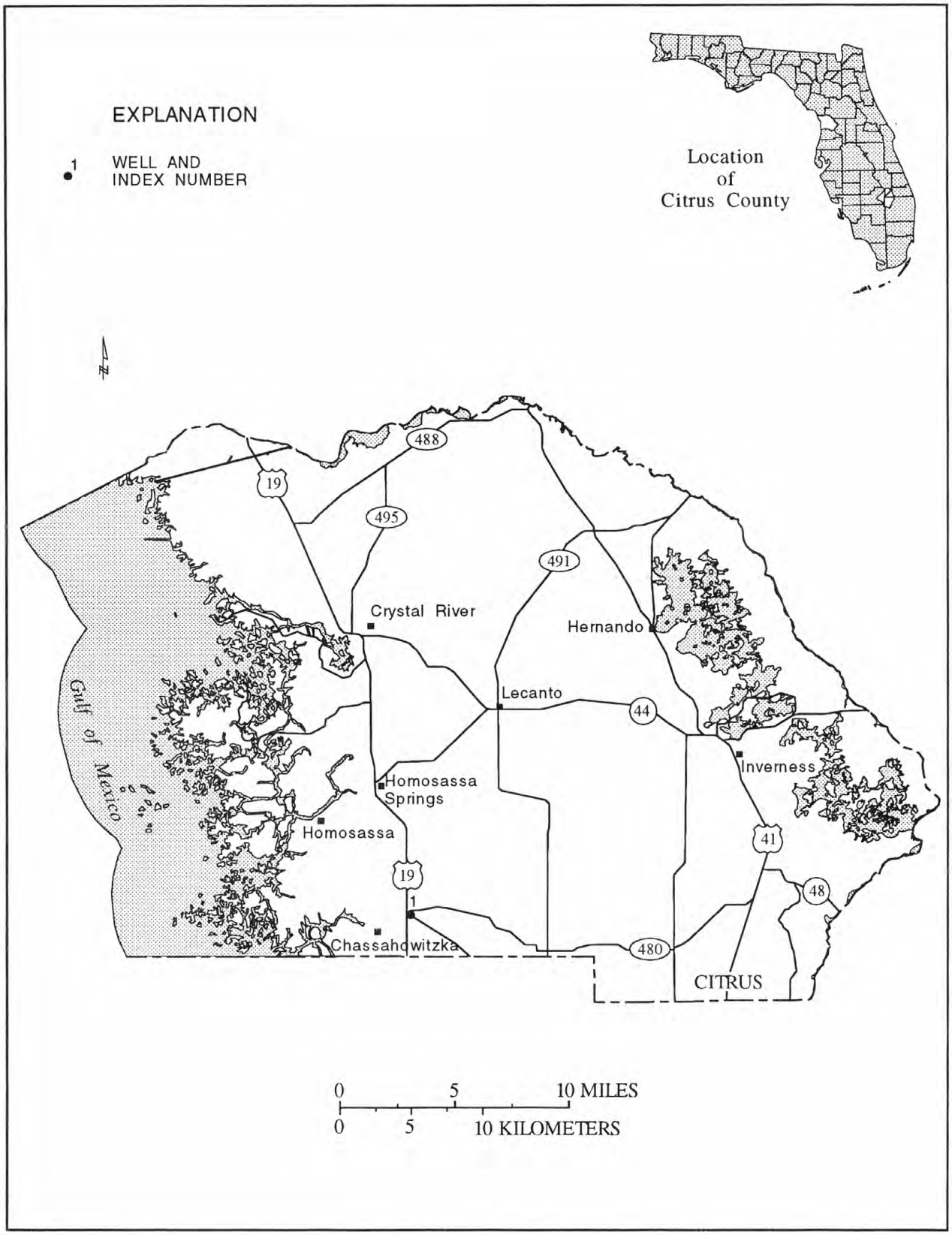

Figure 11.-- Location of wells in Citrus County.

CITRUS COUNTY

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

LOCATION.--Lat 28°43'17", long 82°33'06", in $NE^1/_4NE^1/_4$ 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 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.01	7.80	7.11	6.78	6.77	6.35	6.07	5.84	5.67	6.54	6.26	6.44
10	7.94	7.62	6.97	6.81	6.69	6.34	6.07	5.75	5.64	6.72	6.41	6.71
15	7.97	7.55	6.94	6.77	6.53	6.64	6.15	5.77	5.77	6.68	6.37	6.51
20	7.84	7.49	6.91	6.69	6.60	6.38	5.96	5.70	6.09	6.50	6.24	6.66
25	7.63	7.31	6.84	6.99	6.42	6.28	5.85	5.69	6.12	6.43	6.57	6.58
EOM	7.65	7.19	6.80	6.91	6.52	6.13	5.85	5.84	6.25	6.27	6.58	6.65
MAX	8.18	7.81	7.20	7.01	6.90	6.64	6.17	5.86	6.25	6.72	6.59	6.78

CAL YR 1998 MAX 9.10
WTR YR 1999 MAX 8.18

CITRUS COUNTY

STATION NUMBER	STATION NAME	DATE	ELEV-ATION ABOVE NGVD (FEET) (72020)
284339082270401	LECANTO WELL 1 NEAR LECANTO FL	05-12-99	7.59
		09-13-99	8.23
284532082371001	HOMOSASSA WELL 1 AT HOMOSASSA FL	09-13-99	1.69
284803082351701	NORRIS CATTLE CO WELL AT HOMOSASSA SPRINGS FL	05-11-99	1.75
		09-13-99	1.87
285020082365301	OZELLO WELL 3 NEAR CRYSTAL RIVER FL	05-11-99	1.17
		09-13-99	1.26
285102082361001	OZELLO WELL 4 NEAR CRYSTAL RIVER FL	05-11-99	2.14
		09-13-99	2.18
285112082354401	ROMP TR 21-2 DEEP WELL NR HOMOSASSA SPRINGS FL	05-11-99	2.44
		09-13-99	2.15
285234082341901	ROMP TR 21-3 DEEP WELL NR HOMOSASSA SPRINGS FL	09-13-99	2.57
285254082323001	LECANTO WELL 7 NEAR LECANTO FL	05-11-99	3.56
		09-13-99	3.97
285421082361602	CRYS ROAD DEEP WELL AT CRYSTAL RIVER FL	05-11-99	1.86
		09-13-99	.81
285737082400601	FPC (FLORIDA POWER CORP) CR3 NEAR CRYSTAL RIVER FL	05-11-99	1.46
		09-13-99	3.19

KEY TO SITE LOCATIONS ON FIGURE 12

DE SOTO COUNTY

INDEX NUMBER	SITE NUMBER	PAGE NUMBER
1	270410081565201	32
2	270414081584701	32
3	271232081392201	33
3	271232081392202	33
4	271308081522601	34
5	271538082002301	34
6	271757081493001	35
6	271757081493002	35
6	271757081493003	36
7	272012081482501	36

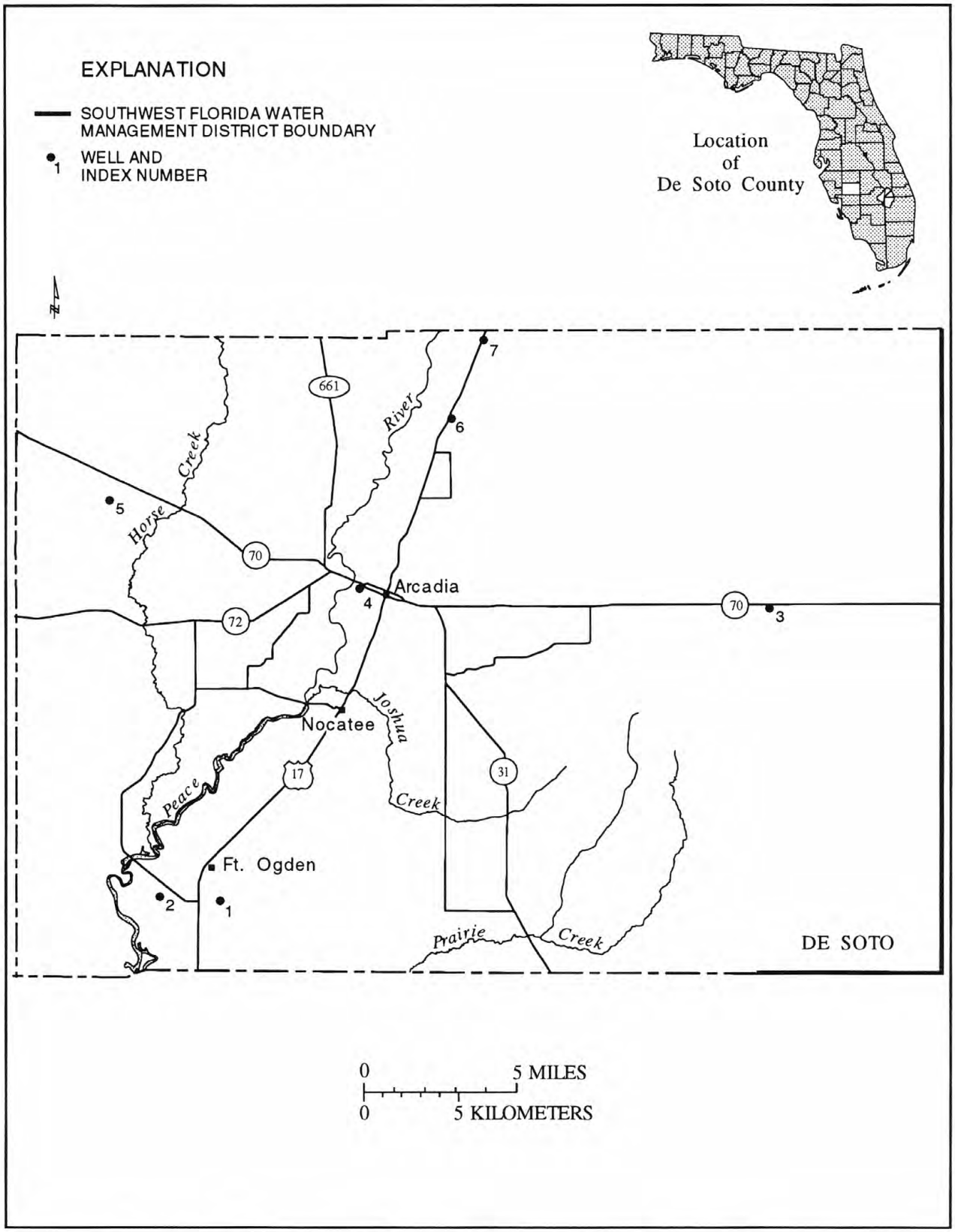

Figure 12.-- Location of wells in De Soto County.

DE SOTO COUNTY

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

LOCATION.--Lat 27°04'10", long 81°56'52", in NW$^1/_4$SE$^1/_4$ 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 1998 TO SEPTEMBER 1999

DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)	DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)
OCT			MAY		
05...	1406	47.58	17...	1520	42.83
DEC			JUN		
14...	1503	45.78	28...	1530	46.68
JAN			AUG		
26...	1501	43.68	10...	1430	47.18
MAR					
30...	1200	42.53			

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

LOCATION.--Lat 27°04'14", long 81°58'47", in NW$^1/_4$SE$^1/_4$ 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 1998 TO SEPTEMBER 1999

DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)	DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)
OCT			MAY		
05...	1430	47.50	17...	1545	43.00
DEC			JUN		
14...	1445	47.20	28...	1600	47.00
MAR			AUG		
30...	1229	42.65	10...	1500	48.00

DE SOTO COUNTY

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

LOCATION.--Lat 27°12'32", long 81°39'22", in $NW^1/_4NW^1/_4$ 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, 51.59 ft NGVD, Oct. 20, 1995; lowest, 36.74 ft NGVD, Apr. 23, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	46.76	47.32	43.84	42.30	40.81	43.40	48.67	48.91	49.42
10	---	---	---	45.96	46.46	43.08	39.34	41.58	45.57	48.71	48.40	49.29
15	---	---	46.08	46.80	46.59	44.06	37.92	43.17	46.32	49.11	48.74	49.59
20	---	---	46.65	46.51	45.56	43.53	38.12	41.64	47.37	48.56	48.89	49.45
25	---	---	46.27	47.33	44.03	41.56	38.38	43.94	47.86	48.33	49.51	49.80
EOM	---	---	45.82	48.41	45.29	42.64	39.84	44.18	48.37	49.10	49.13	49.97
MAX	---	---	---	48.41	48.50	45.53	42.30	44.18	48.37	49.39	49.62	49.97

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

LOCATION.--Lat 27°12'32", long 81°39'22", in $NW^1/_4NW^1/_4$ 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, 75.95 ft NGVD, June 29, 1999; lowest measured, 70.53 ft NGVD, May 18, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)	DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)
OCT			MAY		
02...	1435	74.57	18...	1335	70.53
DEC			JUN		
15...	1347	72.28	29...	1022	75.95
FEB			AUG		
01...	1800	72.09	11...	1345	73.20
MAR					
31...	1225	71.18			

DE SOTO COUNTY

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

LOCATION.--Lat 27°13'08", long 81°52'26", in $NW^1/_4NW^1/_4$ 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 1998 TO SEPTEMBER 1999

DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)	DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)
OCT			JUN		
02...	1400	46.43	28...	1730	41.78
DEC			AUG		
14...	1552	42.33	10...	1630	42.03
MAR			SEP		
31...	1015	39.38	15...	1315	42.33
MAY					
12...	1218	37.08			
18...	1633	37.63			

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

LOCATION.--Lat 27°15'38", long 82°00'23", in $SW^1/_4NW^1/_4$ 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, 45.92 ft NGVD, Feb. 23, 1998; lowest, 26.61 ft NGVD, May 6, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	43.13	39.93	37.77	38.59	39.71	34.55	---	---	33.54	39.82	40.61	42.31
10	42.92	41.03	36.87	37.04	38.73	34.33	27.61	28.65	34.71	40.25	41.42	42.05
15	42.57	41.37	37.61	38.54	37.85	33.56	---	30.99	35.66	40.79	41.63	41.90
20	42.49	40.09	37.79	37.99	36.44	34.49	---	30.10	37.07	41.14	41.86	41.81
25	40.97	39.07	37.14	38.86	34.95	32.51	---	31.72	38.14	41.48	42.50	42.51
EOM	39.26	39.12	37.48	40.12	35.26	31.74	---	32.53	39.05	41.15	42.56	42.99
MAX	43.20	41.37	38.62	40.12	40.20	35.33	---	---	39.05	41.58	42.70	42.99

DE SOTO COUNTY

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

LOCATION.--Lat 27°17'57", long 81°49'30", in $SW^1/_4SW^1/_4$ 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, 64.32 ft NGVD, June 16, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	70.40	69.96	68.89	68.22	68.44	67.70	67.66	64.69	64.54	---	68.10	68.83
10	70.07	70.01	68.78	68.14	68.26	67.62	65.86	64.67	64.44	66.48	68.26	68.60
15	69.82	69.72	68.65	68.07	68.06	67.56	65.32	64.89	64.33	66.44	67.97	68.47
20	69.58	69.45	68.54	68.02	67.91	67.53	64.99	64.67	64.83	66.59	68.42	69.70
25	69.36	69.23	68.42	68.47	67.83	67.83	64.78	64.70	---	66.63	69.05	70.19
EOM	69.10	69.06	68.31	68.56	67.78	67.65	64.76	64.60	---	67.99	69.10	70.29
MAX	---	70.08	69.02	68.57	68.54	67.91	67.66	64.91	---	---	69.19	70.33

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

LOCATION.--Lat 27°17'57", long 81°49'30", in $SW^1/_4SW^1/_4$ 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, 26.87 ft NGVD, Apr. 16, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	48.28	44.17	41.22	43.01	43.91	38.59	35.28	32.87	36.91	43.95	43.99	46.76
10	47.85	45.93	40.43	41.50	42.51	37.03	31.09	33.19	38.71	43.81	44.78	45.39
15	47.49	46.53	42.26	43.01	42.57	38.87	28.24	35.70	39.69	44.56	45.91	45.93
20	46.76	43.47	42.44	41.82	40.59	38.73	29.14	33.59	41.37	45.13	46.15	46.18
25	45.74	42.89	41.70	43.86	38.66	34.96	28.36	35.75	---	45.57	46.95	47.18
EOM	43.04	43.41	41.92	45.42	39.91	35.50	30.67	36.23	43.26	45.21	46.08	47.39
MAX	---	46.53	---	45.42	44.70	40.23	35.28	36.23	---	45.65	47.09	47.39

DE SOTO COUNTY

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

LOCATION.--Lat 27°17'57", long 81°49'30", in $SW^1/_4SW^1/_4$ 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.

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

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 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	47.52	43.57	40.09	41.17	43.48	37.33	33.11	31.89	37.51	44.65	43.84	46.37
10	47.29	45.32	39.18	40.05	42.30	35.89	29.55	32.80	39.26	43.65	44.88	44.50
15	46.05	45.18	41.05	41.96	41.79	37.93	27.41	35.47	40.21	44.28	45.83	45.62
20	46.12	40.91	41.68	40.88	39.08	37.60	27.91	32.21	42.23	44.87	46.19	45.98
25	44.45	41.10	40.79	42.87	37.13	32.47	27.05	35.78	---	46.09	46.87	46.76
EOM	42.56	42.62	40.41	44.49	39.05	34.06	29.41	36.70	43.97	45.41	45.67	47.07
MAX	---	45.81	---	44.49	---	38.79	33.54	36.70	---	46.21	47.11	47.10

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

LOCATION.--Lat 27°20'12", long 81°48'25", in $NW^1/_4NW^1/_4$ 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 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	45.28	41.77	39.26	39.16	41.29	35.51	28.86	23.96	30.02	39.02	42.35	44.87
10	45.67	42.48	38.33	35.84	41.09	34.25	25.89	24.45	31.46	39.90	42.50	44.64
15	45.41	43.32	38.70	37.38	39.75	32.71	22.83	27.11	32.47	40.82	43.08	44.46
20	44.99	42.38	38.35	38.15	39.14	33.83	22.06	27.24	34.33	41.66	43.82	44.17
25	43.99	41.51	38.21	39.08	36.70	32.87	---	27.86	36.09	42.46	44.57	44.88
EOM	42.20	40.46	38.74	40.86	36.40	30.85	21.61	28.72	37.64	42.87	44.51	45.53
MAX	45.67	43.34	40.28	40.86	41.40	36.41	---	28.72	37.64	43.02	44.84	45.53

DE SOTO COUNTY

STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (FEET) (72020)
270225081443303	ROMP 12 NOCATEE WELL NEAR ARCADIA FL	05-11-99	44.91
		09-14-99	49.40
270225081443304	ROMP 12 LOWER INTERMEDIATE WELL NEAR ARCADIA FL	05-11-99	44.65
		09-14-99	49.29
270225081443305	ROMP 12 UPPER INTERMEDIATE WELL NEAR ARCADIA FL	05-11-99	37.93
		09-14-99	43.41
270325081484701	NAT WOLF CORP IRRIGATION WELL NEAR ARCADIA FL	09-14-99	48.12
270417081575601	ROB LANE DESOTO 36 WELL (RUSSELL) NEAR ARCADIA FL	05-12-99	38.62
		09-15-99	44.65
270418081365802	ROMP 13-MW4 WELL NEAR ARCADIA FL	05-11-99	46.53
		09-14-99	49.85
270418081365803	ROMP 13-MW3 WELL NEAR ARCADIA FL	05-11-99	46.55
		09-14-99	49.93
270418081365804	ROMP 13-MW2 WELL NEAR ARCADIA FL	05-11-99	46.03
		09-14-99	49.98
270418081365805	ROMP 13-MW1 WELL NEAR ARCADIA FL	05-11-99	58.20
		09-14-99	60.10
270540082001101	GDU WELL M-2 NEAR FORT OGDEN FL	05-13-99	38.90
		09-15-99	49.70
270540082001102	GDU WELL T-2 NEAR FORT OGDEN FL	05-13-99	37.47
		09-15-99	48.27
270737082025001	ROMP 9.5 IASUPZ WELL NEAR FORT OGDEN FL	05-13-99	33.92
		09-15-99	37.86
270737082025101	ROMP 9.5 UFA WELL NEAR FORT OGDEN FL	05-13-99	39.52
		09-15-99	46.46
270737082025102	ROMP 9.5 IASLPZ WELL NEAR FORT OGDEN FL	05-13-99	36.61
		09-15-99	44.05
270737082025104	ROMP 9.5 SAS WELL NEAR FORT OGDEN FL	05-13-99	30.82
		09-15-99	34.13
270858081582201	NUNEZ RED HAWK RANCH WELL NEAR NOCATEE FL	05-12-99	36.50
		09-15-99	44.10
271026081583601	ROMP 17 AVON PARK WELL NEAR NOCATEE FL	05-12-99	39.34
		09-15-99	46.74
271026081583603	ROMP 17 TAMPA-SUWANNEE WELL NEAR NOCATEE FL	05-12-99	17.10
		09-15-99	18.91
271026081583604	ROMP 17 TAMPA WELL NEAR NOCATEE FL	05-12-99	34.65
		09-15-99	42.65

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1998 TO SEPTEMBER 1999

DE SOTO COUNTY

STATION NUMBER	STATION NAME	DATE	ELEV-ATION ABOVE NGVD (FEET) (72020)
271026081583605	ROMP 17-SAS WELL NEAR NOCATEE FL	05-12-99	39.77
		09-15-99	46.60
271109081541901	MINUTE MAID WELL 43 FBG D-68 NEAR ARCADIA FL	05-12-99	41.47
271115081462701	ROMP 16 OCALA WELL NEAR ARCADIA FL	05-12-99	42.58
		09-16-99	48.41
271115081462702	ROMP 16 HAWTHORN WELL NEAR ARCADIA FL	05-12-99	41.86
		09-16-99	48.55
271228081482801	TOWNSEN RIVER HWTN ARCADIA FL	05-12-99	40.53
		09-16-99	49.00
271405081453201	BEVIS DEEP IRRIGATION WELL NEAR ARCADIA FL	05-12-99	42.28
		09-16-99	48.50
271610081565401	CUNNINGHAM WELL NEAR ARCADIA FL	05-13-99	33.57
		09-15-99	44.59
271623081520101	CAMP CHANYATAH WELL 49 NEAR ARCADIA FL	05-13-99	30.64
		09-15-99	34.10
271720081521501	SORRELLS BROS WELL 8 NEAR ARCADIA FL	05-13-99	31.94
		09-15-99	42.80
271746081404301	SOUTH TOMATO GROWERS WELL NEAR ARCADIA FL	05-12-99	40.49
		09-16-99	47.27
271746081453501	FLA POWER & LIGHT WELL NEAR ARCADIA FL	05-13-99	38.38
		09-15-99	47.02
271748081345101	TRG WELL J36 NEAR ARCADIA FL	05-12-99	41.80
		09-16-99	47.76
272015081392701	AMOCO 2 OIL TEST WELL NEAR ARCADIA FL	05-12-99	46.80
		09-14-99	58.41

KEY TO SITE LOCATIONS ON FIGURE 13

HARDEE COUNTY

INDEX NUMBER	SITE NUMBER	PAGE NUMBER
1	272714081545901	42
2	272728081474701	42
2	272728081474702	43
2	272728081474703	43
3	272924081395801	44
4	273156081451401	44

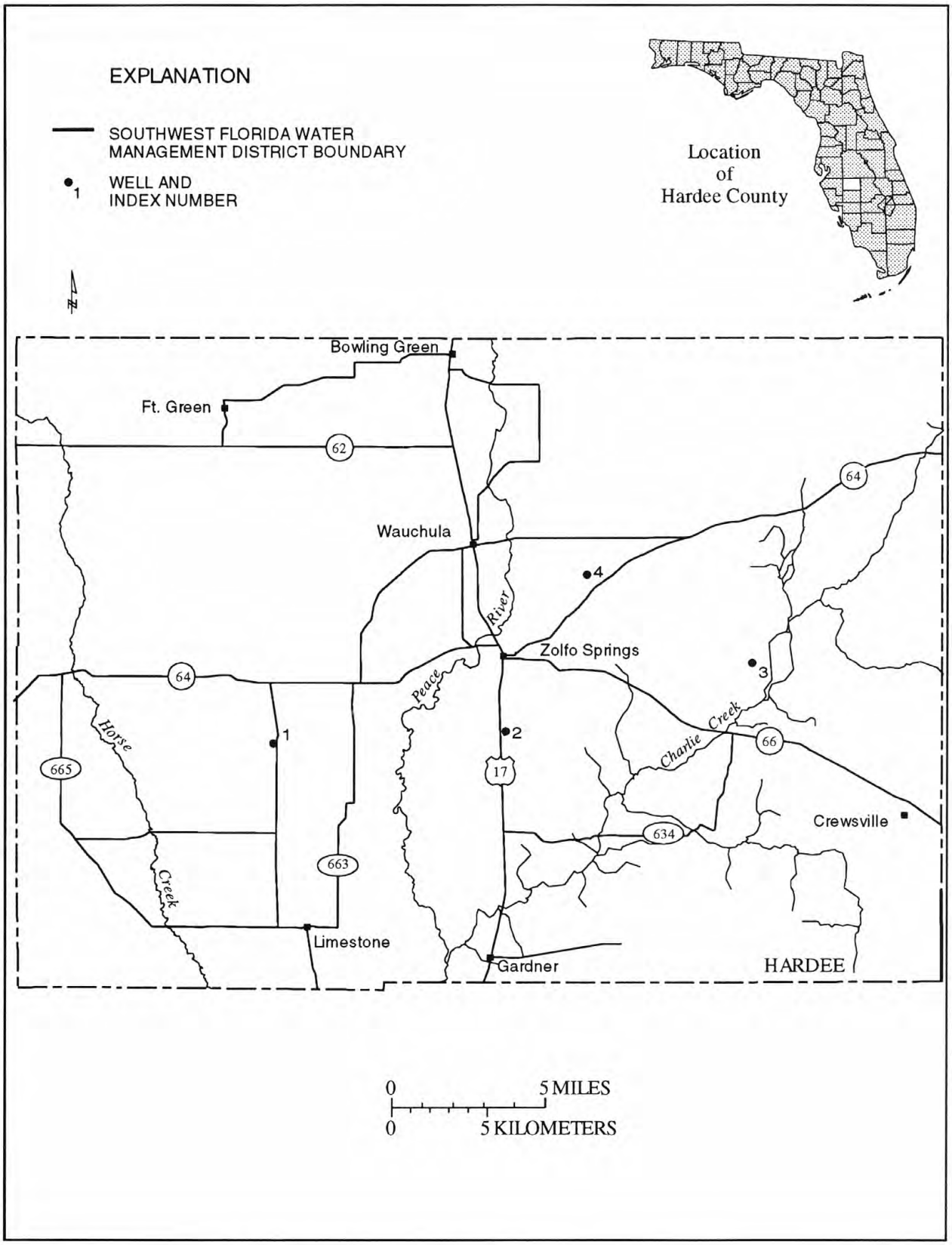

Figure 13.-- Location of wells in Hardee County.

HARDEE COUNTY

WELL NUMBER.--272714081545901. ROMP 31 Avon Park Well near Ona, FL.

LOCATION.--Lat 27°27'14", long 81°54'59", in $NE^1/_4NW^1/_4$ sec.9, T.35 S., R.24 E., Hydrologic Unit 03100101, 80 ft west of State Highway 663, and 1.4 mi south of Ona. 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 1,152 ft, cased to 460 ft.

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

DATUM.--Land-surface datum is 78.09 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 irrigation wells.

PERIOD OF RECORD.--November 1977 to September 1992; October 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 57.92 ft NGVD, Mar. 9, 1998; lowest, 8.86 ft NGVD, Apr. 28, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	46.84	42.21	39.26	39.15	42.31	34.51	21.39	12.69	19.09	33.38	39.97	45.03
10	46.89	42.71	37.73	35.80	42.23	33.02	17.24	13.59	21.01	35.08	40.99	44.81
15	46.12	43.25	37.83	37.73	41.04	30.45	14.46	15.09	22.69	36.42	42.25	44.48
20	45.89	42.05	37.90	38.76	40.93	28.53	---	15.35	25.55	38.18	43.07	44.09
25	45.60	41.19	37.66	39.51	37.81	26.95	---	15.78	28.35	38.99	44.09	44.81
EOM	43.81	41.44	38.13	41.34	36.39	24.55	---	16.99	30.83	39.78	44.49	45.70
MAX	46.97	43.33	40.93	41.34	42.54	36.15	---	---	30.83	39.78	44.69	45.70

CAL YR 1998 MAX 57.92

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

LOCATION.--Lat 27°27'28", long 81°47'47", in $SW^1/_4SE^1/_4$ 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, 60.52 ft NGVD, Mar. 9, 1998; lowest, 13.00 ft NGVD, estimated, May 27, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	50.84	46.81	44.41	43.56	46.83	38.94	27.24	18.80	25.61	39.25	44.33	49.34
10	51.08	47.53	43.03	39.73	46.71	38.08	22.83	20.50	27.49	40.76	45.66	49.56
15	50.53	48.02	42.51	42.15	45.06	35.39	19.41	---	28.85	41.90	46.65	48.95
20	49.91	46.87	42.79	43.09	45.57	34.74	17.47	21.74	31.83	43.18	47.62	48.47
25	49.59	46.12	42.25	43.96	42.30	33.00	15.92	22.52	34.48	43.31	48.55	49.40
EOM	48.01	46.31	43.10	45.91	41.17	30.38	---	24.20	37.06	43.89	48.84	50.31
MAX	51.08	48.15	46.01	45.91	47.18	41.02	---	---	37.06	43.92	49.02	50.31

HARDEE COUNTY

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

LOCATION.--Lat 27°27'28", long 81°47'47", in $SW^1/_4SE^1/_4$ 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.--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, 4.11 ft above land-surface datum.

PERIOD OF RECORD.--October 1981 to September 1989; October 1989 to September 1990, October 1991 to September 1997 (periodic); October 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 58.98 ft NGVD, Mar. 9, 1998; lowest, 19.60 ft NGVD, estimated, May 27, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	52.13	50.08	48.20	47.29	48.87	44.44	34.42	25.58	30.87	42.08	46.32	51.11
10	52.26	50.26	47.05	44.23	49.07	43.34	29.83	26.73	32.13	43.21	47.43	51.22
15	52.05	50.59	46.21	44.83	48.66	41.40	28.72	---	33.09	44.36	48.41	50.91
20	51.77	49.93	46.11	46.18	48.62	40.71	25.70	27.97	35.17	45.37	49.50	50.26
25	51.66	49.22	46.03	46.91	47.18	37.80	23.35	28.02	37.47	45.46	50.44	50.97
EOM	50.91	49.19	46.56	48.18	46.29	36.76	23.11	29.29	39.97	45.75	50.58	51.86
MAX	52.26	50.73	48.95	48.18	49.27	46.17	36.20	---	39.97	45.85	50.63	51.86

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

LOCATION.--Lat 27°27'28", long 81°47'47", in $SW^1/_4SE^1/_4$ 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, 67.80 ft NGVD, Aug. 25, 1995; lowest, 61.81 ft NGVD, May 17, 1994.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	64.79	66.33	63.94	64.20	64.37	63.34	62.60	62.55	63.13	65.48	63.68	64.55
10	64.89	65.07	63.80	64.19	64.09	63.16	62.48	62.79	62.94	65.20	64.14	64.03
15	64.44	64.63	63.75	63.88	63.97	63.59	62.28	---	62.78	64.57	64.04	63.74
20	64.16	64.91	63.60	63.75	63.65	63.30	62.19	62.13	63.21	64.06	65.49	64.60
25	64.42	64.48	63.54	64.82	63.51	63.01	62.07	62.12	64.79	63.79	64.84	64.44
EOM	63.89	64.07	63.49	64.24	63.42	62.78	62.60	62.09	65.85	63.47	65.44	64.53
MAX	65.59	66.33	64.03	64.93	64.66	63.59	62.80	---	65.87	65.88	65.49	65.47

HARDEE COUNTY

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

LOCATION.--Lat 27°29'24", long 81°39'58", in $NE^1/_4NE^1/_4$ 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 1998 TO SEPTEMBER 1999

DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)	DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)
OCT			MAY		
08...	1500	60.36	21...	0900	46.00
DEC			JUN		
07...	1245	56.81	29...	1500	60.18
JAN			AUG		
29...	1202	48.75	16...	1315	66.60
APR					
01...	1045	48.32			

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

LOCATION.--Lat 27°31'56", long 81°45'14", in $SE^1/_4SW^1/_4$ 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 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	62.00	57.30	54.51	54.81	58.63	51.20	39.35	33.40	39.81	51.80	54.83	59.40
10	61.87	58.65	52.96	52.03	57.72	48.83	33.30	33.96	41.00	52.95	56.39	58.30
15	60.73	59.00	54.11	54.18	57.80	47.90	29.61	---	41.91	53.29	57.30	58.70
20	59.82	57.44	53.80	54.92	57.67	46.35	30.42	---	44.96	53.12	57.99	58.22
25	60.22	56.16	53.19	56.06	54.54	44.76	28.66	---	47.49	53.51	59.19	59.64
EOM	57.70	56.70	54.92	58.07	53.17	42.09	30.32	---	49.83	53.79	58.29	60.80
MAX	62.08	59.00	55.26	58.07	58.63	53.20	39.35	---	---	54.07	59.26	60.80

HARDEE COUNTY

STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (FEET) (72020)
272038081530701	LIMESTONE LAND 622 WELL NEAR LIMESTONE FL	05-12-99	21.18
		09-14-99	41.09
272041081562301	CARLTON JR WELL NO 224 NEAR LIMESTONE FL	05-13-99	4.60
272108081582601	HOLLINGSWORTH WELL 620 NEAR LIMESTONE FL	05-13-99	3.00
		09-14-99	34.78
272129081391001	FLINT DEEP WELL NEAR CREWSVILLE FL	05-13-99	36.20
272442082015201	STEPHENS DEEP WELL NO 724201132344 NEAR ONA FL	05-13-99	.50
		09-14-99	33.52
272509081410401	MARRLS DEEP WELL NO 411 NEAR GARDNER FL	05-12-99	29.47
		09-15-99	54.67
272620081394901	CARLTON WELL HA-59 NEAR ZOLFO SPRINGS FL	05-12-99	60.13
		09-15-99	68.86
272714081545902	ROMP 31 HAWTHORN WELL NEAR ONA FL	05-13-99	17.32
		09-14-99	46.07
272715081401601	WILBUR ROBERTSON WELL NO 124 NR ZOLFO SPRINGS FL	05-12-99	41.23
		09-15-99	61.28
272855081400701	PEACE RIVER RANCH NO 231 NR CREWSVILLE FL	05-12-99	43.67
		09-15-99	64.92
272917081453901	ANDERSON WELL (HARDEE 601) NO 442 ZOLFO SPRINGS FL	05-13-99	35.20
		09-15-99	60.00
272944081474001	CITY ZOLFO SPGS DEEP WELL NO 242 ZOLFO SPRINGS FL	05-13-99	29.86
		09-15-99	55.77
273103081363701	SMITH DEEP WELL NO. 731136344333 NR LEMON GROVE FL	05-12-99	50.34
273108081461301	W.D. BOND WELL HA-89 NO. 323 NEAR WAUCHULA FL	05-13-99	33.20
		09-15-99	57.84
273331081414601	TROGDEN WELL NEAR ZOLFO SPRINGS FL	05-12-99	47.41
273423081582901	CF INDUSTRIES UF-3 WELL NEAR WAUCHULA FL	05-12-99	91.73
		09-17-99	94.77
273424081582501	CF INDUSTRIES DEEP WELL LF1 NEAR FORT GREEN FL	05-12-99	28.47
		09-17-99	53.02
273426081513401	CF INDUSTRIES DEEP WELL LF6 NEAR FORT GREEN FL	05-12-99	42.50
		09-17-99	63.54
273427081513401	CF INDUSTRIES WELL UF-6 NEAR WAUCHULA FL	05-12-99	59.80
		09-17-99	77.60
273435081444001	W.B. GEIGER WELL NEAR WAUCHULA FL	05-12-99	42.22
		09-15-99	64.45
273458081342601	SHEARER DEEP WELL NO. 141 NEAR LEMON GROVE FL	05-12-99	65.65

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1998 TO SEPTEMBER 1999

HARDEE COUNTY

STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (FEET) (72020)
273555081403001	JOHN WHITE WELL 627 NEAR WAUCHULA FL	05-12-99	74.85
		09-15-99	92.17
273714081483101	ST OF FLORIDA PAYNES CREEK HISTORIC SITE FL	05-12-99	45.41
		09-15-99	60.38
273813081491201	BRYAN HAWTHORN WELL AT BOWLING GREEN FL	05-12-99	62.15
		09-15-99	65.32
273834081464701	WHITEHURST DP 73814613422 WELL NR BOWLING GREEN FL	05-12-99	45.59
		09-15-99	65.65

KEY TO SITE LOCATIONS ON FIGURE 14

HERNANDO COUNTY

INDEX NUMBER	SITE NUMBER	PAGE NUMBER
1	282605082345801	50
2	282613082381701	50
2	282613082381702	51
2	282613082381703	51
3	282636082221401	52
4	282659082391101	52
5	282742082375901	53
6	283201082315601	53
7	283650082313301	54

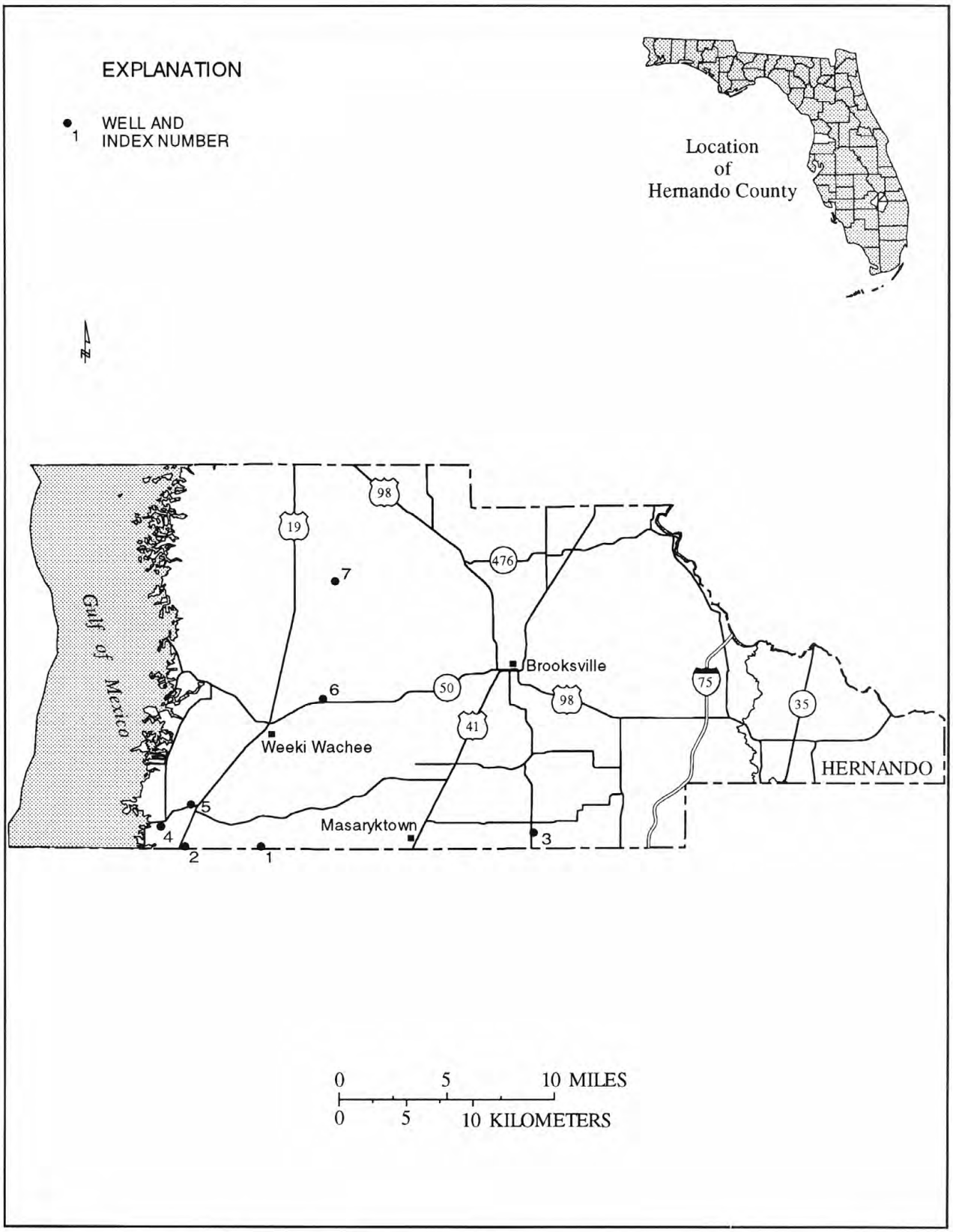

Figure 14.-- Location of wells in Hernando County.

HERNANDO COUNTY

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

LOCATION.--Lat 28°26'05", long 82°34'58", in $SW^1/_4SW^1/_4$ 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, 13.34 ft NGVD, June 5, 1994.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	22.71	21.92	21.05	20.35	---	---	18.18	17.26	16.46	16.18	16.00	15.67
10	22.69	21.77	20.84	---	---	---	18.04	17.11	16.33	16.11	15.98	15.91
15	22.51	21.59	20.77	---	---	---	17.86	16.96	16.20	16.08	15.88	16.13
20	22.37	21.43	20.65	---	---	---	17.76	16.75	16.23	16.11	15.97	16.22
25	22.20	21.31	20.49	---	---	---	17.55	16.79	16.27	16.11	15.94	16.19
EOM	21.99	21.17	20.37	---	---	18.33	17.47	16.61	16.15	16.12	15.82	16.15
MAX	22.72	21.92	21.16	---	---	---	18.32	17.44	16.57	16.20	16.04	16.23

CAL YR 1998 MAX 24.27

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

LOCATION.--Lat 28°26'13", long 82°38'17", in $SW^1/_4SE^1/_4$ 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, 9.86 ft NGVD, June 29, 1994.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.67	13.96	13.46	13.06	13.10	12.60	12.20	11.87	11.47	11.34	11.56	11.25
10	14.53	13.84	13.24	12.98	12.95	12.54	12.09	11.71	11.42	11.35	11.68	11.69
15	14.34	13.77	13.22	13.08	12.88	12.73	12.20	11.67	11.34	11.44	11.53	11.69
20	14.22	13.71	13.25	12.97	12.78	12.54	11.99	11.53	11.33	11.47	11.51	11.80
25	14.05	13.56	13.13	13.22	12.73	12.38	11.86	11.57	11.34	11.52	11.54	11.77
EOM	13.98	13.51	13.09	13.27	12.77	12.30	11.96	11.50	11.32	11.64	11.31	11.76
MAX	14.77	14.03	13.51	13.46	13.29	12.75	12.32	11.87	11.53	11.70	11.71	11.82

CAL YR 1998 MAX 15.26
WTR YR 1999 MAX 14.77

HERNANDO COUNTY

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

LOCATION.--Lat 28°26'13", long 82°38'17", in $SW^1/_4SE^1/_4$ 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.--Avon Park formation of Eocene Age, Geologic Unit 124 AVPK.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 4 in. reduced to 3 in. below 20 ft, depth 510 ft, cased to 480 ft.

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

DATUM.--Land-surface datum is 20.96 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 1.77 ft above land-surface datum.

PERIOD OF RECORD.--April 1988 to current year (periodic). The figures of water level as elevation, in feet NGVD, Oct. 1, 1996, to Sept. 30, 1997, are in error. Correct elevations may be obtained by using datum correction of -0.17 ft.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.32 ft NGVD, May 24, 1999; lowest measured, 9.00 ft NGVD, June 7, 1991.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)	DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)
OCT			MAY		
08...	1030	13.79	24...	1000	15.32
DEC			JUL		
04...	1040	12.74	08...	1034	11.06
FEB			AUG		
01...	1030	12.46	12...	0945	11.04
MAR					
30...	1103	11.75			

WELL NUMBER.--282613082381703. ROMP TR 18-3 NRSD Well near Aripeka, FL.

LOCATION.--Lat 28°26'13", long 82°38'17", in $SW^1/_4SE^1/_4$ 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.--Surficial aquifer system of Quaternary Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-level well, diameter 6 in., depth 10 ft, cased to 7 ft.

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

DATUM.--Land-surface datum is 20.88 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of male adaptor, 2.80 ft above land-surface datum.

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

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

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.18	14.56	13.73	13.48	13.56	12.94	12.47	11.99	11.72	11.62	12.02	11.47
10	15.03	14.28	13.65	13.34	13.44	12.83	12.38	11.89	11.58	11.47	11.99	12.02
15	14.86	---	13.59	13.27	13.30	13.09	12.27	11.80	11.47	11.60	11.88	12.11
20	14.70	---	13.49	13.20	13.19	12.77	12.25	11.69	11.61	11.91	11.88	12.03
25	14.54	---	13.42	13.89	13.08	12.68	12.15	11.78	11.49	11.73	11.79	12.00
EOM	14.38	---	13.35	13.67	13.02	12.55	12.11	11.68	11.42	11.99	11.60	11.96
MAX	15.36	---	---	13.89	13.65	13.09	12.54	12.08	11.76	12.23	12.15	12.30

HERNANDO COUNTY

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

LOCATION.--Lat 28°26'36", long 82°22'14", in $SW^1/_4NW^1/_4$ 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, 59.26 ft NGVD, Apr. 15, 1998; lowest, 33.88 ft NGVD, July 14, 1994.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	55.37	55.20	54.09	52.81	51.68	50.47	49.18	47.80	46.16	46.40	45.56	44.55
10	55.71	55.01	53.89	52.71	51.44	50.31	48.95	47.48	46.47	46.54	45.31	44.37
15	55.92	54.88	53.69	52.49	51.20	50.08	48.74	47.15	46.52	46.74	45.08	44.20
20	55.69	54.68	53.49	52.25	51.04	49.83	48.49	46.90	46.19	46.74	44.88	43.99
25	55.40	54.52	53.28	52.12	50.79	49.64	48.29	46.64	46.20	46.37	44.93	43.87
EOM	55.24	54.30	53.03	51.92	50.72	49.41	48.02	46.34	46.22	45.86	44.68	44.01
MAX	55.96	55.23	54.23	53.01	51.85	50.67	49.35	47.95	46.67	46.77	45.76	44.66

CAL YR 1998 MAX 59.26
WTR YR 1999 MAX 55.96

WELL NUMBER.--282659082391101. ROMP TR 18-2 Lake City Well near Aripeka, FL.

LOCATION.--Lat 28°26'59", long 82°39'11", in $SE^1/_4SE^1/_4$ sec.25, T.23 S., R.16 E., Hydrologic Unit 03100207, 650 ft south of State Highway 595, and 1.4 mi northeast of Aripeka. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of Eocene Age, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 3 in., depth 790 ft, cased to 760 ft.

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

DATUM.--Land-surface datum is 6.69 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.35 ft above land-surface datum.

PERIOD OF RECORD.--October 1987 to March 1988; April 1988 to current year (periodic). Prior to October 1988, published as ROMP TR 18-2 Avon Park Well near Aripeka.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.54 ft below NGVD, Mar. 30, 1998; lowest measured, 4.59 ft below NGVD, June 23, 1997.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)	DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)
OCT			MAY		
08...	1110	-2.65	24...	1015	-4.02
DEC			JUL		
04...	1125	-4.10	08...	1046	-4.08
FEB			AUG		
01...	1050	-3.33	12...	0957	-3.66
APR					
02...	1050	-3.75			

HERNANDO COUNTY

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

LOCATION.--Lat 28°27'42", long 82°37'59", in $NW^1/_4NW^1/_4$ 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.

REMARKS.--Water level affected by tidal fluctuations.

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 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.66	16.14	15.55	15.32	15.70	15.05	14.55	13.98	13.13	---	13.60	13.23
10	16.53	---	15.38	15.37	15.53	14.96	14.46	13.82	13.22	13.50	13.74	13.85
15	16.34	---	15.39	15.62	15.42	15.24	14.42	13.53	13.11	13.74	13.61	14.05
20	16.23	---	15.35	15.54	15.36	14.98	14.31	13.32	13.42	13.79	13.63	14.09
25	16.04	---	15.27	15.95	15.21	14.82	14.20	13.34	---	13.81	13.59	14.01
EOM	16.01	---	15.27	15.90	15.26	14.70	14.19	13.23	---	13.65	13.32	13.97
MAX	16.78	---	---	15.98	15.90	15.24	14.70	14.12	---	---	13.82	14.09

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

LOCATION.--Lat 28°32'01", long 82°31'56", in $SW^1/_4SW^1/_4$ 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, 12.68 ft NGVD, June 29, 30, July 1, 1994.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	20.51	20.07	19.28	18.49	18.02	17.23	16.36	15.52	14.87	15.38	15.29	15.48
10	20.45	19.92	19.10	18.40	17.85	17.07	16.26	15.38	14.78	15.41	15.26	15.64
15	20.42	19.78	19.00	18.26	17.72	16.97	16.07	15.27	14.76	15.43	15.24	15.65
20	20.35	19.66	18.85	18.12	17.57	16.85	15.99	15.12	15.15	15.45	15.27	15.68
25	20.19	19.52	18.75	18.19	17.44	16.68	15.84	15.08	15.31	15.43	15.46	15.67
EOM	20.11	19.39	18.58	18.16	17.37	16.50	15.68	14.95	15.33	15.39	15.53	15.61
MAX	20.51	20.08	19.39	18.58	18.12	17.34	16.45	15.68	15.33	15.45	15.53	15.69

CAL YR 1998 MAX 22.54
WTR YR 1999 MAX 20.51

HERNANDO COUNTY

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

LOCATION.--Lat 28°36'50", long 82°31'33", in $SE^1/_4NW^1/_4$ sec.32, T.21 S., R.18 E., Hydrologic Unit 03100207, 1.5 mi east of intersection U. S. Highway 19 and State Highway 476, and 7.0 mi north of town of Weeki Wachee Springs. 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 170 ft, cased to 122 ft.

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

DATUM.--Land-surface datum is 39.44 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.29 ft above land-surface datum.

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, 8.90 ft NGVD, June 23, 1997.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.71	15.34	14.12	13.04	12.57	11.87	11.21	10.45	9.80	11.08	10.98	11.51
10	15.89	15.13	13.92	12.92	12.46	11.75	11.07	10.30	9.73	11.20	11.17	11.75
15	15.96	14.96	13.73	12.80	12.33	11.65	10.94	10.17	9.82	11.28	11.26	11.82
20	15.90	14.74	13.56	12.66	12.20	11.60	10.83	10.06	10.35	11.27	11.23	11.78
25	15.73	14.56	13.37	12.65	12.08	11.49	10.71	9.95	10.73	11.21	11.33	11.72
EOM	15.49	14.34	13.17	12.67	12.02	11.34	10.59	9.87	10.85	11.09	11.44	11.74
MAX	15.96	15.46	14.29	13.15	12.65	11.98	11.32	10.57	10.85	11.28	11.44	11.82

CAL YR 1998 MAX 16.93
WTR YR 1999 MAX 15.96

HERNANDO COUNTY

STATION NUMBER	STATION NAME	DATE	ELEV-ATION ABOVE NGVD (FEET) (72020)
282659082391104	ROMP TR 18-2 8IN UPPR AVON PARK WELL NR ARIPEKA FL	05-12-99	7.48
		09-14-99	7.91
282742082375901	ROMP TR 18-1 DEEP WELL NEAR ARIPEKA FL	05-12-99	13.61
		09-14-99	13.89
283243082365701	ROMP TR 19-2 DEEP WELL NEAR BAYPORT FL	05-12-99	6.25
		09-14-99	5.35
283313082350101	ROMP TR 19-3 DEEP WELL NEAR WEEKI WACHEE FL	05-12-99	8.39
		09-14-99	8.64
283321082241601	ROMP DEEP 105 AT BROOKSVILLE FL	05-12-99	35.62
		09-13-99	33.46
283321082241602	ROMP 105 AT BROOKSVILLE FL	05-12-99	35.04
		09-13-99	33.11
283537082151501	ROMP DEEP WELL 103 NEAR BROOKSVILLE FL	05-11-99	40.12
		09-13-99	38.75
283924082272301	ROMP DEEP WELL 107 NEAR BROOKSVILLE FL	05-12-99	11.35
		09-13-99	11.31

KEY TO SITE LOCATIONS ON FIGURE 15

HIGHLANDS COUNTY

INDEX NUMBER	SITE NUMBER	PAGE NUMBER
1	272745081232601	58

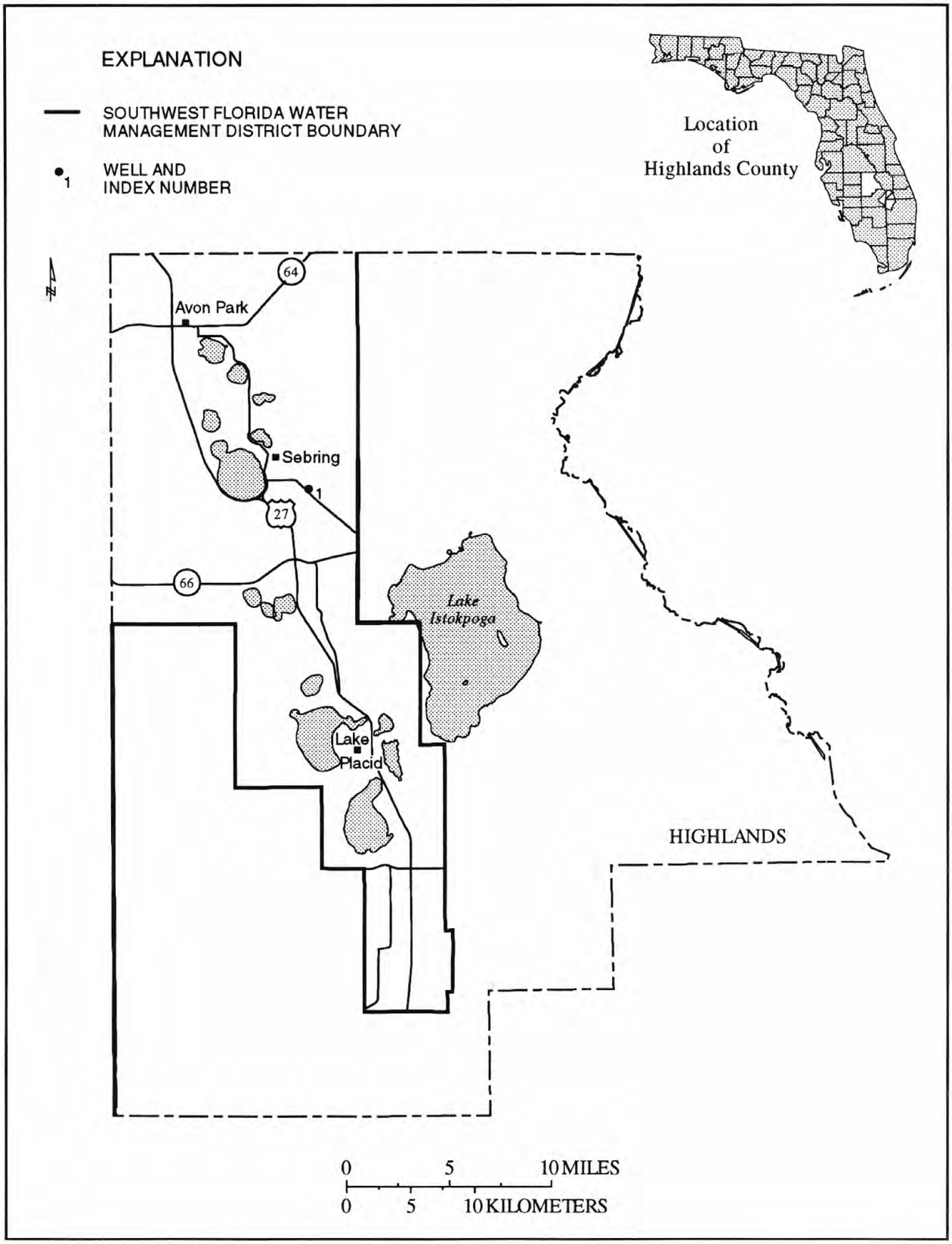

Figure 15.-- Location of wells in Highlands County.

HIGHLANDS COUNTY

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

LOCATION.--Lat 27°27'45", long 81°23'26", in $NW^1/_4SE^1/_4$ 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 CHARACTERISICS.--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.

REMARKS.--Record is equivalent to that for Sebring Well 412 near Sebring which was previously published as Observation Well H10 near Sebring.

PERIOD OF RECORD.--March 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 91.89 ft NGVD, Mar. 31, Apr. 1, 1998; lowest, 83.99 ft NGVD, May 30, 1994.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	89.70	89.05	89.05	88.29	87.73	87.12	86.59	85.98	86.75	87.79	89.22	90.73
10	89.65	89.39	88.88	88.24	87.65	87.02	86.37	86.08	86.77	88.34	89.47	90.72
15	89.57	89.52	88.76	88.16	87.50	86.97	86.31	86.34	86.72	88.95	89.57	90.65
20	89.36	89.43	88.55	88.05	87.45	86.89	86.24	86.43	86.71	89.32	89.57	90.42
25	89.33	89.24	88.51	87.88	87.36	86.62	86.13	86.54	86.84	89.42	89.95	90.37
EOM	89.23	89.15	88.38	87.80	87.24	86.62	86.04	86.69	87.11	89.38	90.55	90.37
MAX	89.73	89.52	89.13	88.36	87.80	87.19	86.62	86.69	87.11	89.42	90.55	90.74

WTR YR 1999 MAX 90.74

HIGHLANDS COUNTY

STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (FEET) (72020)
270858081211101	ROMP 14 AVON PARK WELL NEAR LAKE PLACID FL	05-11-99	44.87
		09-13-99	49.50
270858081211102	ROMP 14 HAWTHORN WELL NEAR LAKE PLACID FL	05-11-99	109.38
		09-13-99	110.72
270858081211103	ROMP 14 LINGER LODGE NEAR LAKE PLACID FL	05-11-99	138.11
		09-13-99	141.61
270858081211104	ROMP 14 SUWANNEE WELL NEAR LAKE PLACID FL	05-11-99	44.78
		09-13-99	50.22
271223081202601	LAKE PLACID GROVES DEEP SOUTH OF LAKE PLACID FL	05-11-99	46.14
		09-13-99	45.95
271559081202301	ROMP 28 FLORIDAN WELL NR LAKE PLACID FL	05-11-99	66.55
		09-13-99	65.15
		09-13-99	72.04
272835081251701	NARANATHA VILLAGE NR SEBRING FL	05-11-99	77.82
		09-13-99	86.46
273054081234701	JOHN MC CULLOCH WELL 11 NEAR SEBRING FL	05-11-99	72.46
		09-13-99	82.37
273252081264101	BONNET LAKE DEEP NEAR SEBRING FL	05-11-99	78.60
		09-13-99	83.25
273353081294201	FLOYD DEVANE WELL 18 NEAR AVON PARK FL	05-11-99	79.46
		09-13-99	86.08
273615081284901	ROMP 43 FLORIDAN WELL NEAR AVON PARK FL	05-11-99	84.02
		09-13-99	87.57
273704081245501	ROBERT RICHARDS WELL 25 NEAR AVON PARK FL	05-11-99	71.16
		09-13-99	74.51
273845081321901	CLENNY DEEP NW/O AVON PK FL	05-11-99	70.01
		09-13-99	80.75

KEY TO SITE LOCATIONS ON FIGURE 16

HILLSBOROUGH COUNTY

INDEX NUMBER	SITE NUMBER	PAGE NUMBER
1	274240082212701	62
1	274240082212702	62
1	274240082212703	63
2	275215082201901	63
3	275429082093901	64
4	275627082150801	64
5	275724082221001	65
6	275802082044701	65
7	280005082324201	66
8	280022082210501	66
9	280038082340201	67
10	280053082350202	67
11	280058082202201	68
11	280058082202202	68
12	280105082222801	69
13	280145082132501	69
14	280203082202301	70
15	280209082280301	70
16	280243082203701	71
17	280320082203801	71
18	280503082143701	72
19	280548082355701	72
20	280740082271001	73
21	280944082380501	73

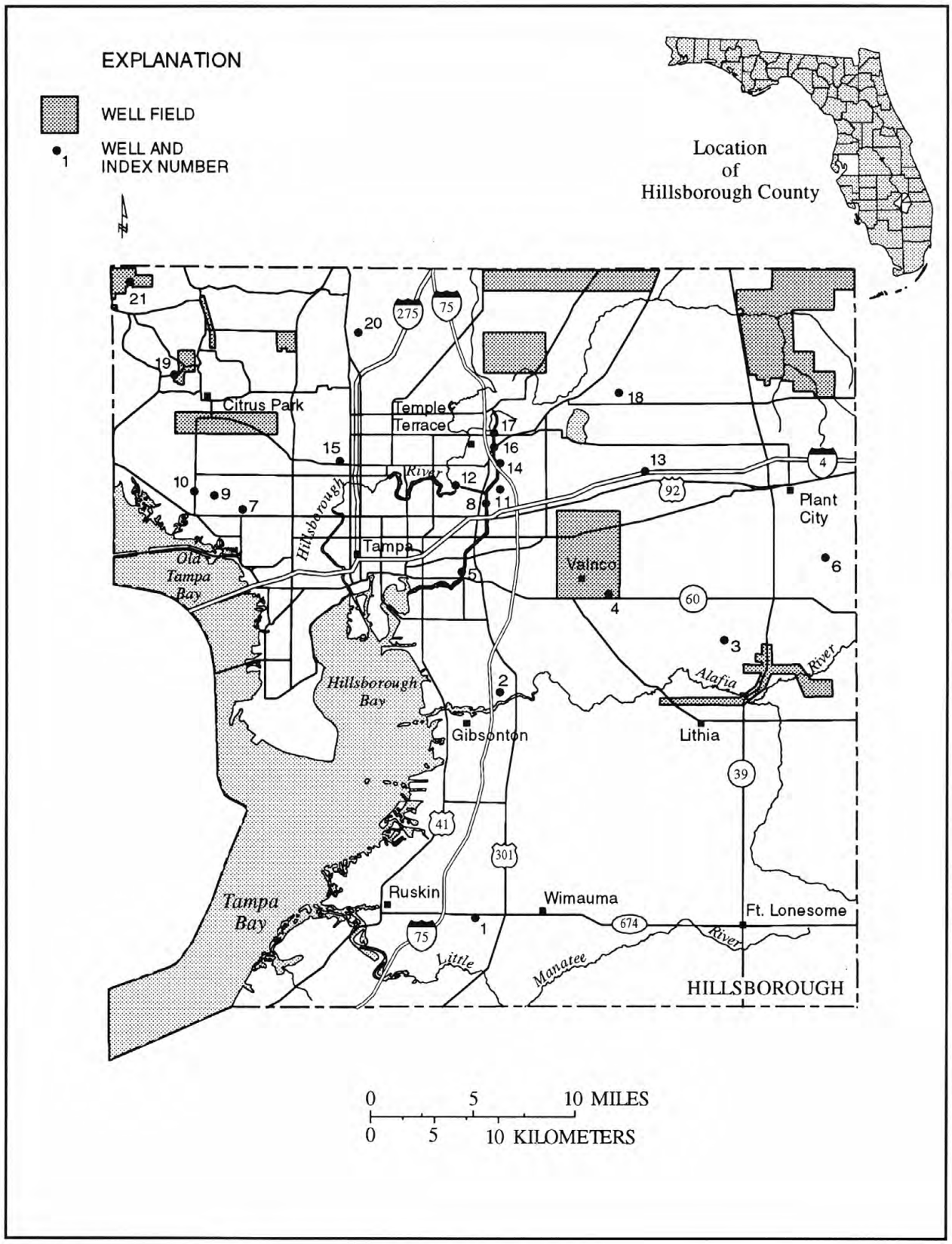

Figure 16.-- Location of wells in Hillsborough County.

HILLSBOROUGH COUNTY

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

LOCATION.--Lat 27°42'40", long 82°21'27", in $NW^1/_4SE^1/_4$ 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, 24.97 ft NGVD, Feb. 23, 1998; lowest, 20.87 ft below NGVD, May 27, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	19.52	8.93	---	11.93	12.25	-1.40	-11.21	---	-.38	14.18	14.00	16.68
10	15.23	11.46	---	11.17	9.22	---	-14.39	-3.95	3.46	15.33	16.37	18.03
15	13.58	9.82	7.62	11.53	6.16	-2.38	-16.50	-11.37	4.88	15.91	17.10	18.01
20	10.84	8.25	9.24	10.65	4.76	-3.75	-11.48	-8.74	8.75	16.97	17.48	16.66
25	9.68	7.94	8.26	12.19	1.60	-7.16	-15.53	-5.71	11.11	16.03	18.38	17.13
EOM	7.24	8.92	9.95	13.34	-.41	-9.92	-16.66	-4.89	12.18	15.11	17.44	16.17
MAX	19.93	11.56	---	13.68	13.55	---	-9.78	---	12.18	16.97	18.50	18.03

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

LOCATION.--Lat 27°42'40", long 82°21'27", in $NW^1/_4SE^1/_4$ 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 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	41.81	42.26	41.32	41.55	41.38	41.02	41.00	40.92	41.19	41.92	41.95	41.73
10	41.58	41.56	41.21	41.58	41.32	41.10	40.95	40.82	41.29	41.87	41.91	42.18
15	41.37	41.46	41.54	41.38	41.22	41.53	40.88	41.16	41.05	42.19	41.83	42.04
20	41.27	41.33	41.29	41.36	41.18	41.27	41.10	41.01	42.20	41.96	41.87	42.36
25	41.20	41.39	41.24	42.15	41.11	41.18	40.86	40.90	41.93	41.51	42.07	41.89
EOM	41.17	41.33	41.31	41.54	41.09	41.02	41.16	41.13	41.83	41.62	41.68	41.79
MAX	42.25	42.26	41.63	42.32	41.50	41.53	41.23	41.17	42.30	42.19	42.53	42.78

WTR YR 1999 MAX 42.78

HILLSBOROUGH COUNTY

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

LOCATION.--Lat 27°42'40", long 82°21'27", in $NW^1/_4SE^1/_4$ 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 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.46	4.62	4.37	4.64	5.35	1.21	-4.12	-7.76	-7.21	-1.80	1.98	5.34
10	6.90	5.49	3.71	4.31	4.67	---	-5.15	-8.56	-6.22	-.94	2.85	5.75
15	6.22	5.48	3.47	4.76	3.94	---	-6.03	-8.81	-5.53	-.06	3.62	6.29
20	5.72	4.99	4.15	4.57	3.35	-.97	-6.38	-8.28	-4.53	.74	3.96	6.07
25	5.36	4.57	4.11	4.48	2.33	-1.74	-6.89	-7.95	-3.43	1.29	4.70	6.56
EOM	4.83	4.69	4.31	5.34	1.83	-3.20	-7.96	-8.21	-2.61	1.66	5.25	6.63
MAX	7.46	5.54	4.68	5.34	5.43	---	-3.39	-7.76	-2.61	1.66	5.25	6.63

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

LOCATION.--Lat 27°52'15", long 82°20'19", in $NE^1/_4SE^1/_4$ 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, 15.95 ft NGVD, Feb. 20, 1998; lowest measured, 0.20 ft below NGVD, May 20, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)	DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)
OCT			MAY		
06...	1135	15.15	11...	1030	5.47
DEC			19...	1250	6.36
03...	1300	11.22	JUN		
JAN			29...	1425	10.37
28...	1300	11.49	AUG		
APR			12...	1600	11.64
02...	1245	6.36	SEP		
			14...	1030	12.28

HILLSBOROUGH COUNTY

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

LOCATION.--Lat 27°54'29", long 82°09'39", in $SW^1/_4SE^1/_4$ 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 September 1999 (discontinued).

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 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	44.74	35.04	37.72	39.07	40.87	35.53	---	---	23.61	34.36	36.46	40.74
10	43.11	37.06	37.15	35.81	40.48	32.10	---	---	26.18	36.01	37.95	41.79
15	40.85	37.87	37.24	38.25	39.14	31.77	---	23.05	27.61	36.26	38.52	41.55
20	38.44	38.19	38.05	38.46	38.30	32.52	---	24.22	30.22	36.99	39.02	40.54
25	37.14	38.18	37.73	39.79	36.57	31.01	---	25.74	31.97	37.10	40.15	40.96
EOM	34.81	37.63	38.44	40.50	35.91	28.38	---	23.94	33.20	36.94	40.09	40.68
MAX	45.57	38.44	38.59	40.89	40.92	35.80	---	---	33.20	37.39	40.32	41.91

WELL NUMBER.--275627082150801. Turner Well near Brandon, FL.

LOCATION.--Lat 27°56'27", long 82°15'08", in $SW^1/_4SW^1/_4$ 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: Malco Petroleum Incorporate.

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, 28.20 ft NGVD, Mar. 22, 23, 1998; lowest, 10.87 ft NGVD, May 19, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	24.53	22.44	20.57	---	18.59	17.13	15.39	14.09	14.30	15.98	16.81	18.33
10	24.45	22.24	20.12	18.78	18.30	16.73	15.01	14.09	14.46	16.06	17.23	18.55
15	24.22	21.89	19.92	18.72	18.14	16.59	14.74	14.24	14.78	16.36	17.43	18.49
20	23.80	21.51	19.66	18.41	17.92	16.32	14.71	14.30	15.16	16.59	17.83	18.52
25	23.11	21.16	19.48	18.59	17.47	16.08	14.41	14.48	15.46	16.59	18.40	18.61
EOM	22.72	20.92	19.25	18.60	17.33	15.68	14.33	14.35	15.74	16.65	18.42	18.76
MAX	24.53	22.58	20.79	---	18.64	17.35	15.67	14.53	15.74	16.67	18.53	18.76

HILLSBOROUGH COUNTY

WELL NUMBER.--275724082221001. Structure 160 Well near Tampa, FL.

LOCATION.--Lat 27°57'24", long 82°22'10", in NE$^1/_4$SE$^1/_4$ 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.

REMARKS.--Water level affected by tidal fluctuations.

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, 18.63 ft NGVD, Mar. 9, 1998; lowest, 8.37 ft NGVD, May 5, 1971.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	17.36	16.19	15.24	14.53	14.77	13.82	13.13	---	12.65	14.10	14.23	14.77
10	17.18	16.03	14.98	14.91	14.59	---	13.36	---	12.62	14.30	14.39	14.88
15	16.85	16.02	14.94	14.75	14.38	---	---	---	12.83	14.34	14.58	14.78
20	16.73	15.73	14.98	14.59	14.42	---	---	12.56	13.48	14.32	14.55	14.99
25	16.44	15.58	15.04	14.73	14.10	---	---	13.51	13.68	14.28	14.81	14.97
EOM	16.26	15.47	14.85	14.86	14.27	---	---	12.73	13.90	14.31	14.64	15.00
MAX	17.37	16.26	15.33	15.20	14.85	---	---	---	13.94	14.44	14.93	15.07

WELL NUMBER.--275802082044701. Fletcher Lett Well near Plant City, FL.

LOCATION.--Lat 27°58'02", long 82°04'47", in SW$^1/_4$SE$^1/_4$ 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, 87.68 ft NGVD, Sept. 13, 1995; lowest measured, 43.00 ft NGVD, May 13, 1975.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)	DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)
OCT			MAY		
05...	0935	74.73	12...	0810	70.32
DEC			17...	0830	55.20
01...	0855	67.96	AUG		
JAN			09...	0947	68.35
25...	0835	71.31	SEP		
MAR			14...	1430	81.51
29...	0835	61.24			

HILLSBOROUGH COUNTY

WELL NUMBER.--280005082324201. ROMP TR 12-3 SWNN Replacement Well near Tampa, FL.

LOCATION.--Lat 28°00'05", long 82°32'42", in NW$^1/_4$SE$^1/_4$ sec.31, T.28 S., R.21 E., Hydrologic Unit 03100206, at intersection Southern Comfort Boulevard and Idlewild Avenue, 0.5 mi north of State Highway 580, and 5.0 mi west of Tampa. 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 342 ft, cased to 294 ft.

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

DATUM.--Land-surface datum is 19.25 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.84 ft above land-surface datum.

REMARKS.--Drilled in June 1992 as a replacement for ROMP TR 12-3 SWNN Well near Tampa (280034082323702) which was destroyed by construction of Veterans Expressway.

PERIOD OF RECORD.--October 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 13.61 ft NGVD, Oct. 5, 1995; lowest, 10.10 ft NGVD, Apr. 25, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.42	11.60	11.16	10.98	11.40	10.87	10.54	10.53	10.56	11.52	11.23	11.44
10	12.10	11.62	10.90	11.43	11.23	10.96	10.58	10.42	10.54	11.62	11.48	11.80
15	11.92	11.43	11.00	11.58	10.76	11.19	10.78	10.59	10.56	11.54	11.45	11.46
20	11.60	11.38	11.16	11.15	11.35	10.89	10.38	10.40	11.07	11.42	11.67	12.55
25	11.10	11.18	11.31	11.22	10.91	10.76	10.10	10.54	11.50	11.32	11.70	12.18
EOM	11.54	11.10	11.25	11.48	11.11	10.60	10.53	10.54	11.43	11.20	11.33	12.02
MAX	13.14	11.62	11.49	11.77	11.66	11.31	10.82	10.74	11.54	11.66	11.85	12.86

CAL YR 1998 MAX 13.49
WTR YR 1999 MAX 13.14

WELL NUMBER.--280022082210501. SWFWMD Well west of Vandenberg Airport near Temple Terrace, FL.

LOCATION.--Lat 28°00'22", long 82°21'05", in NW$^1/_4$SE$^1/_4$ 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, 17.92 ft NGVD, Mar. 3, 1998; lowest, 12.86 ft NGVD, June 10, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.76	16.30	15.78	15.45	15.35	14.66	13.92	13.43	13.43	14.52	14.82	15.07
10	16.44	16.22	15.65	15.50	15.29	14.53	13.90	13.38	13.44	14.84	14.81	15.13
15	16.48	16.13	15.64	15.46	15.20	14.42	13.74	13.39	13.42	14.75	14.89	15.11
20	16.47	16.05	15.55	15.37	15.08	14.23	13.77	13.39	14.18	14.75	14.91	15.15
25	16.37	16.00	15.46	15.45	14.87	14.30	13.65	13.44	14.31	14.74	15.06	15.14
EOM	16.30	15.92	15.46	15.36	14.80	13.95	13.57	13.60	14.43	14.74	15.06	15.13
MAX	16.81	16.30	16.07	15.54	15.38	14.79	14.06	13.63	14.43	14.84	15.16	15.17

WTR YR 1999 MAX 16.81

HILLSBOROUGH COUNTY

WELL NUMBER.--280038082340201. Channel G BM Deep Well near Tampa, FL.

LOCATION.--Lat 28°00'38", long 82°34'02", in $NE^1/_4NW^1/_4$ 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 1998 TO SEPTEMBER 1999

DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)	DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)
OCT			MAY		
06...	1020	7.41	10...	1118	5.85
DEC			17...	0730	5.67
02...	1530	6.19	JUN		
JAN			28...	0825	6.79
28...	1140	6.61	JUL		
APR			29...	1455	6.60
07...	1320	5.75	SEP		
			13...	0819	7.29

WELL NUMBER.--280053082350202. Sheldon Road Deep Well near Citrus Park, FL.

LOCATION.--Lat 28°00'53", long 82°35'02", in $NE^1/_4SE^1/_4$ 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, 3.57 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 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.22	7.51	7.26	7.07	7.54	6.75	6.64	6.81	6.79	7.78	7.54	7.69
10	7.92	7.55	6.95	7.63	7.51	6.93	6.72	6.63	6.77	7.92	7.54	8.04
15	7.75	7.46	7.08	7.74	6.54	7.23	6.94	6.84	6.84	7.87	7.58	7.49
20	7.51	7.37	7.33	7.38	7.10	6.87	6.56	6.64	7.41	7.67	7.75	8.57
25	7.06	7.25	7.38	7.46	---	6.90	6.26	6.77	7.73	7.67	7.86	8.28
EOM	7.44	7.14	7.38	7.72	---	6.70	6.69	6.74	7.74	7.54	7.50	8.10
MAX	8.86	7.56	7.71	7.98	---	---	6.94	6.95	7.79	7.94	7.96	8.84

CAL YR 1998 MAX 9.24

HILLSBOROUGH COUNTY

WELL NUMBER.--280058082202201. Eureka Springs Deep Well near Temple Terrace, FL.

LOCATION.--Lat 28°00'58", long 82°20'22", in $NE^1/_4SE^1/_4$ 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.

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.

REMARKS.--Well also sampled for water quality.

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; October 1976 to October 1992, published as Eureka Springs Landfill Deep Well near Temple Terrace.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 23.24 ft NGVD, Mar. 27, 28, 1998; lowest, 13.91 ft NGVD, June 10, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	21.29	20.65	19.49	18.63	18.32	17.48	16.41	15.39	15.31	16.53	17.00	17.66
10	21.30	20.41	19.26	18.63	18.21	17.29	16.22	15.26	15.31	16.78	17.13	17.79
15	21.21	20.26	19.15	18.53	18.06	17.20	15.97	15.32	15.31	16.86	17.25	17.77
20	21.14	20.03	19.01	18.37	17.96	16.99	15.90	15.28	15.86	16.91	17.36	17.80
25	20.89	19.85	18.85	18.38	17.73	16.87	15.70	15.40	16.12	16.92	17.60	17.78
EOM	20.68	19.69	18.74	18.36	17.68	16.60	15.57	15.41	16.34	16.92	17.62	17.81
MAX	---	20.65	19.67	18.76	18.39	17.65	16.57	15.59	16.34	16.97	17.68	17.84

WELL NUMBER.--280058082202202. Eureka Springs Shallow Well near Temple Terrace, FL.

LOCATION.--Lat 28°00'58", long 82°20'22", in $NE^1/_4SE^1/_4$ 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.

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; October 1976 to October 1992, published as Eureka Springs Landfill Shallow Well near Temple Terrace.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 21.55 ft NGVD, Aug. 25, 1995; lowest, 14.94 ft NGVD, June 13, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	20.77	20.10	17.68	---	20.53	18.15	17.30	16.25	17.29	18.33	20.61	20.40
10	20.59	18.59	17.52	---	19.73	17.92	17.09	16.06	17.12	20.76	19.39	20.61
15	19.86	18.20	17.59	---	---	18.93	16.88	16.04	17.00	20.88	20.80	19.52
20	19.16	17.93	17.38	---	---	18.15	16.80	15.92	20.36	20.62	20.43	20.77
25	18.37	18.17	17.31	20.66	---	17.77	16.63	16.35	19.41	19.48	20.71	20.57
EOM	18.01	17.74	17.39	20.49	18.65	17.48	16.44	17.90	18.62	18.89	20.61	20.35
MAX	20.86	20.10	17.71	---	---	18.93	17.46	20.04	20.61	20.88	21.12	20.83

HILLSBOROUGH COUNTY

WELL NUMBER.--280105082222801. USCE Well TBC-08 near Temple Terrace, FL.

LOCATION.--Lat 28°01'05", long 82°22'28", in $SW^1/_4NE^1/_4$ 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 September 1999 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 22.94 ft NGVD, Sept. 26, 1997; lowest, 14.98 ft NGVD, June 29, 1977.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	21.69	22.48	22.07	22.23	22.19	21.67	20.22	18.50	18.21	21.78	21.44	21.80
10	21.84	22.50	22.15	22.21	22.09	21.45	19.83	18.32	18.03	22.00	21.43	22.09
15	22.05	22.49	22.16	22.23	21.98	21.39	19.50	18.53	18.37	21.83	21.85	21.83
20	21.98	22.48	22.04	21.94	21.89	21.25	19.34	18.39	19.51	21.73	21.88	21.76
25	21.95	22.27	22.06	22.18	21.83	20.94	19.10	18.82	20.28	21.74	21.94	21.85
EOM	22.43	22.21	22.17	21.98	21.78	20.61	18.61	18.53	21.22	21.58	21.88	21.80
MAX	22.43	22.53	22.20	22.31	22.22	21.76	20.53	18.82	21.22	22.00	22.12	22.10

CAL YR 1998 MAX 22.60
WTR YR 1999 MAX 22.53

WELL NUMBER.--280145082132501. Tampa Deep Well 15 near Dover, FL.

LOCATION.--Lat 28°01'50", long 82°13'25", in $NE^1/_4SE^1/_4$ 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 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	65.77	58.70	60.24	61.04	61.67	58.62	55.00	52.50	53.56	59.25	60.83	60.54
10	63.02	60.31	59.68	58.24	61.20	57.69	53.98	52.27	54.22	59.65	61.44	60.72
15	59.70	60.84	60.48	59.80	60.89	57.20	52.95	53.03	55.18	60.47	61.54	59.90
20	58.10	60.02	60.55	60.16	59.58	57.27	54.29	53.17	56.51	60.85	61.65	59.49
25	57.00	60.62	60.06	61.17	58.88	56.48	53.18	53.93	57.40	60.43	61.99	60.07
EOM	56.17	60.28	60.66	61.49	58.41	55.58	52.94	53.47	58.31	60.80	61.39	59.75
MAX	67.02	60.87	60.66	61.67	61.80	58.75	55.25	54.10	58.31	60.99	62.00	61.22

WTR YR 1999 MAX 67.02

HILLSBOROUGH COUNTY

WELL NUMBER.--280203082202301. USCE Well TBC-03 near Temple Terrace, Fl.

LOCATION.--Lat 28°02'03", long 82°20'23", in $SW^1/_4NE^1/_4$ sec.19, T.28 S., R.20 E., Hydrologic Unit 03100206, 2.8 mi north of intersection Interstate 4 and U. S. Highway 301, and 3.3 mi east 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 6 in., depth 100 ft, cased to 37 ft.

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

DATUM.--Land-surface datum is 36.18 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 4.17 ft above land-surface datum.

PERIOD OF RECORD.--August 1975 to December 1980 (periodic); January 1981 to September 1989; November 1990 to current year. 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 +6.18 ft. Revised records of water levels are in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.61 ft NGVD, Oct. 4, 1979; lowest daily maximum, 11.63 ft NGVD, Jan. 23, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.75	17.99	17.24	16.75	16.55	15.92	15.15	14.53	14.45	15.47	15.84	16.11
10	18.53	17.87	17.12	16.75	16.49	15.79	15.07	14.43	14.44	15.76	15.85	16.17
15	18.41	17.76	17.09	16.67	16.40	---	14.94	14.44	14.43	15.77	15.87	16.13
20	18.35	17.63	16.94	16.58	16.31	---	14.90	14.43	15.00	15.78	15.89	16.15
25	18.19	17.51	16.82	16.62	16.10	---	14.78	14.49	15.19	15.78	16.06	16.15
EOM	18.05	17.40	16.78	16.57	16.04	---	14.67	14.57	15.35	15.79	16.06	16.17
MAX	18.80	18.02	17.39	16.83	16.59	---	15.26	14.67	15.35	15.82	16.09	16.18

CAL YR 1998 MAX 21.56

WELL NUMBER.--280209082280301. ROMP 66 Deep Well at Sulphur Springs, FL.

LOCATION.--Lat 28°02'09", long 82°28'03", in $SW^1/_4NW^1/_4$ sec.24, T.28 S., R.18 E., Hydrologic Unit 03100205, 50 ft east of North Boulevard, and 0.2 mi north of intersection Busch Boulevard and North Boulevard in Sulphur Springs. 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 250 ft, cased to 42 ft.

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

DATUM.--Land-surface datum is 38.08 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 4.00 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 24.51 ft NGVD, Dec. 29, 1997; lowest, 12.04 ft NGVD, June 29, 1977.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	22.62	19.92	17.30	15.91	15.31	14.63	13.81	14.29	14.47	16.86	16.50	16.92
10	22.12	19.51	16.90	15.82	15.18	14.45	13.88	14.19	14.47	16.88	16.46	16.78
15	21.57	19.16	16.69	15.69	15.04	14.36	14.16	14.28	14.90	16.88	16.53	16.59
20	21.06	18.72	16.42	15.50	14.95	14.26	14.48	14.25	15.75	16.87	16.81	16.76
25	20.52	18.12	16.20	15.48	14.82	14.12	14.37	14.28	16.30	16.65	17.39	16.97
EOM	20.13	17.64	15.98	15.36	14.72	13.95	14.43	14.48	16.66	16.54	17.32	16.93
MAX	22.90	20.03	17.56	15.96	15.36	14.71	14.49	14.48	16.66	16.90	17.48	17.20

WTR YR 1999 MAX 22.90

HILLSBOROUGH COUNTY

WELL NUMBER.--280243082203701. USCE Well TBC-01 near Temple Terrace, Fl.

LOCATION.--Lat 28°02'43", long 82°20'37", in $NW^1/_4SE^1/_4$ 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, 30.70 ft NGVD, Dec. 30, 1997; lowest, 15.56 ft NGVD, Jan. 30, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	26.56	23.77	22.81	22.04	21.85	21.10	19.95	18.26	17.55	18.42	20.10	20.87
10	25.75	23.60	22.63	21.99	21.75	20.92	19.67	18.03	17.53	19.50	20.17	20.89
15	24.78	23.39	22.59	21.87	21.62	20.76	19.37	17.94	17.43	19.84	20.26	20.80
20	24.48	23.22	22.44	21.70	21.48	20.58	19.18	17.74	17.75	20.04	20.27	20.77
25	24.18	23.08	22.27	21.81	21.34	20.42	18.85	17.69	17.96	20.07	20.88	20.83
EOM	23.86	22.94	22.07	21.88	21.22	20.14	18.58	17.67	18.15	20.10	20.89	20.79
MAX	26.69	23.79	22.91	22.04	21.88	21.21	20.10	18.55	18.15	20.13	20.90	20.94

CAL YR 1998 MAX 30.22
WTR YR 1999 MAX 26.69

WELL NUMBER.--280320082203801. ROMP 67 Avon Park Well near Temple Terrace, FL.

LOCATION.--Lat 28°03'20", long 82°20'38", in $NW^1/_4SE^1/_4$ 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 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	27.41	25.78	24.75	24.14	23.75	22.59	21.21	19.58	19.27	21.10	21.95	22.38
10	27.20	25.54	24.61	24.15	23.49	22.37	20.92	19.42	19.31	21.97	22.05	22.41
15	26.68	25.35	24.54	23.83	23.26	22.25	20.54	19.53	19.35	22.04	22.15	22.27
20	26.46	25.24	24.33	23.73	23.05	22.04	20.40	19.34	19.97	22.26	22.07	22.20
25	26.10	25.10	24.21	24.13	22.97	21.80	20.13	19.44	20.39	22.19	22.80	22.34
EOM	25.82	24.93	24.10	24.03	22.86	21.52	19.89	19.39	20.68	22.06	22.61	22.25
MAX	27.59	25.78	24.90	24.18	24.02	22.85	21.47	19.87	20.68	22.26	22.82	22.55

CAL YR 1998 MAX 29.68
WTR YR 1999 MAX 27.59

HILLSBOROUGH COUNTY

WELL NUMBER.--280503082143701. ROMP 68 Avon Park Well near Antioch, FL.

LOCATION.--Lat 28°05'03", long 82°14'37", in $SW^1/_4SW^1/_4$ 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.--Avon Park formation of Eocene Age, Geologic Unit 124 AVPK.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 500 ft, cased to 480 ft.

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

DATUM.--Land-surface datum is 56.00 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.39 ft above land-surface datum.

PERIOD OF RECORD.--August 1981 to current year. Prior to October 1990, published as ROMP 68-1 Avon Park Well near Antioch.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 52.36 ft NGVD, Dec. 29, 1997; lowest, 40.74 ft NGVD, June 7, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	50.40	47.91	46.77	46.37	46.96	45.23	43.82	41.98	41.58	45.14	45.50	45.24
10	49.35	47.99	46.39	45.89	46.57	45.03	43.12	41.83	41.96	45.28	46.00	45.48
15	48.43	47.88	46.64	46.32	46.11	45.03	42.59	42.25	42.36	45.52	46.08	45.16
20	48.06	47.45	46.42	46.17	45.57	44.63	43.11	41.87	43.12	45.68	46.00	44.95
25	47.82	47.31	46.29	46.73	45.33	44.35	42.38	42.02	43.84	45.41	46.06	45.15
EOM	47.38	47.02	46.22	47.08	45.36	44.11	42.24	41.79	44.64	45.43	45.54	45.43
MAX	50.85	48.06	47.06	47.08	47.07	45.58	43.94	42.40	44.64	45.73	46.23	45.58

WTR YR 1999 MAX 50.85

WELL NUMBER.--280548082355701. St. Petersburg Deep Well E-100 near Citrus Park, FL.

LOCATION.--Lat 28°05'48", long 82°35'55", in $NW^1/_4NW^1/_4$ 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.

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, 16.03 ft NGVD, Apr. 28, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	26.39	22.84	22.95	23.03	21.73	20.79	18.68	18.56	20.05	21.80	20.10	20.17
10	25.58	23.38	22.42	23.88	21.24	19.30	18.05	18.82	19.26	21.41	20.53	21.66
15	24.41	23.01	23.48	23.66	21.19	19.76	16.76	19.22	20.13	21.09	23.26	21.38
20	23.81	23.26	23.10	22.84	20.68	19.54	19.14	18.28	21.30	21.29	21.72	22.01
25	23.35	22.84	23.05	23.57	18.73	19.20	16.69	19.61	21.97	20.95	21.93	22.22
EOM	21.30	23.23	23.57	21.88	19.69	18.29	18.08	19.04	21.97	20.09	20.26	22.68
MAX	26.39	23.71	23.69	23.96	21.77	20.79	19.14	20.11	22.17	22.93	23.26	22.90

CAL YR 1998 MAX 27.26
WTR YR 1999 MAX 26.39

HILLSBOROUGH COUNTY

WELL NUMBER.--280740082271001. Debuel Road Deep Well near Lutz, FL.

LOCATION.--Lat 28°07'40", long 82°27'10", in $SE^1/_4SE^1/_4$ sec.13, T.27 S., R.18 E., Hydrologic Unit 03100205, 0.7 mi east of intersection U. S. Highway 41 and Debuel Road, and 1.8 mi south of Lutz. 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 300 ft, cased to 118 ft.

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

DATUM.--Land-surface datum is 63.68 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.--August 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, 60.13 ft NGVD, Sept. 27, 1979; lowest, 48.13 ft NGVD, June 1, 1994.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	58.03	56.73	55.80	55.53	55.41	---	53.62	52.26	51.90	53.66	52.80	---
10	57.65	56.35	55.78	55.48	---	---	53.48	---	52.16	53.78	---	54.16
15	57.24	---	56.01	55.51	---	---	53.18	52.30	51.94	---	---	53.97
20	57.02	56.12	55.64	55.20	---	---	53.34	51.93	52.77	53.23	53.38	54.32
25	56.60	56.01	55.59	55.80	54.77	---	---	51.75	53.12	---	53.86	54.39
EOM	56.44	55.86	55.53	55.48	---	---	52.88	51.75	53.46	53.01	53.73	54.39
MAX	58.56	---	56.06	---	---	---	---	---	53.46	---	---	---

WELL NUMBER.--280944082380501. Eldridge-Wilde Deep Well N-4 near Tarpon Springs, FL.

LOCATION.--Lat 28°09'44", long 82°38'05", in $NE^1/_4SE^1/_4$ 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 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	29.38	25.22	23.97	25.41	26.02	25.35	20.71	19.99	20.72	24.81	23.38	23.03
10	28.88	23.94	24.51	24.49	23.75	---	20.49	20.40	20.10	24.99	23.81	24.91
15	27.13	24.44	25.54	24.96	23.53	---	21.06	20.61	20.63	24.64	24.15	24.93
20	27.11	24.62	23.94	24.23	24.15	---	23.10	18.11	23.06	24.47	24.85	26.32
25	26.01	24.83	25.53	26.22	---	---	17.59	19.48	24.76	23.72	25.16	26.70
EOM	21.87	24.74	25.67	23.94	21.76	21.38	20.66	19.37	23.76	23.56	23.74	26.33
MAX	31.44	26.53	26.02	26.33	---	---	23.10	21.59	24.76	25.07	25.71	26.80

HILLSBOROUGH COUNTY

STATION NUMBER	STATION NAME	DATE	ELEV-ATION ABOVE NGVD (FEET) (72020)
274031082150401	ROMP 123 FLORIDAN WELL NEAR WIMAUMA FL	05-10-99	-20.48
		09-13-99	19.93
274044082205101	SRD WELL ON US 301 NEAR WIMAUMA FL	05-10-99	.31
		09-13-99	22.02
274214082084401	FT LONESOME WELL 88 AT FORT LONESOME FL	05-10-99	101.40
		09-13-99	107.97
274218082035701	BARBER WELL 422 NEAR FORT LONESOME FL	05-10-99	114.23
		09-13-99	115.64
274303082280901	SW HILLS CO WELL 71 NEAR RUSKIN FL	09-14-99	17.44
274421082275401	ROMP TR 9-1 FLORIDAN WELL NEAR RUSKIN FL	05-10-99	6.84
		09-13-99	13.27
274427082083701	ROMP 48 FLORIDAN WELL NEAR FORT LONESOME FL	05-10-99	4.75
		09-13-99	37.31
274427082083702	ROMP 48 HAWTHORN WELL NEAR FORT LONESOME FL	05-10-99	89.86
		09-13-99	93.31
274428082251502	ROMP TR 9-3 SUWANNEE WELL NEAR RUSKIN FL	05-10-99	-5.98
		09-13-99	10.94
274428082251503	ROMP TR 9-3 AVON PARK WELL NEAR RUSKIN FL	05-10-99	-9.41
		09-13-99	7.10
274546082151403	ROMP 49 AVON PARK WELL AT BALM FL	05-10-99	-4.03
		09-13-99	28.38
274546082151405	ROMP 49 HAWTHORNN WELL AT BALM FL	05-10-99	-7.30
		09-13-99	33.91
274554082233801	ROMP TR9-2 AVON PARK WELL AT APOLLO BEACH FL	09-13-99	12.00
274554082233802	ROMP TR9-2 OCALA WELL AT APOLLO BEACH FL	09-13-99	13.19
274554082233803	ROMP TR9-2 SUWANNEE WELL AT APOLLO BEACH FL	05-10-99	-6.35
274554082233804	ROMP TR9-2 TAMPA WELL AT APOLLO BEACH FL	05-10-99	-3.35
274554082233805	ROMP TR9-2 SURFICIAL WELL AT APOLLO BEACH FL	05-10-99	5.06
274748082130201	SIMMONS FISH FARM NEAR LITHIA FL	05-10-99	-10.99
		09-13-99	23.88
274925082084301	WCRWSA SCHM-6 UPPER FLORIDAN WELL NEAR LITHIA FL	05-04-99	7.49
		09-09-99	37.79
274925082084302	WCRWSA SCHM-6 INTERMEDIATE WELL NEAR LITHIA FL	05-04-99	62.61
		09-09-99	70.77
274925082084303	WCRWSA SCHM-6 NRSD WELL NEAR LITHIA FL	05-04-99	87.08
		09-09-99	85.81

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1998 TO SEPTEMBER 1999

HILLSBOROUGH COUNTY

STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (FEET) (72020)
274928082225501	SW HILLSBOROUGH COUNTY 220 AT ADAMSVILLE FL	05-10-99	-.23
		09-13-99	7.92
274941082115701	WCRWSA SCHM-7 FLORIDAN WELL NEAR LITHIA FL	05-04-99	1.47
		09-09-99	29.63
274947082145401	CAMP DOROTHY THOMAS NEAR BOYETTE FL	05-10-99	2.74
		09-15-99	22.86
275034082134001	WCRWSA SCHM-1 UPPER FLORIDAN WELL NEAR LITHIA FL	05-04-99	4.74
		09-09-99	24.97
275100082042001	WCRWSA SCHM-5 UPPER FLORIDAN WELL NEAR LITHIA FL	05-04-99	26.86
		09-09-99	51.27
275100082042002	WCRWSA SCHM-5 INTERMEDIATE WELL NEAR LITHIA FL	05-04-99	56.32
		09-09-99	66.50
275100082042003	WCRWSA SCHM-5 NRSD WELL NEAR LITHIA FL	05-04-99	111.51
		09-09-99	111.80
275130082194501	RIVERCREST WELL NEAR BLOOMINGDALE FL	05-11-99	6.38
		09-14-99	14.68
275146082084301	WCRWSA SC-4 UPPER FLORIDAN WELL NEAR LITHIA FL	05-05-99	.71
		09-09-99	32.78
275147082083903	WCRWSA SC-4 UPPER INTERMEDIATE WELL NEAR LITHIA FL	05-05-99	23.97
		09-09-99	37.31
275147082083905	WCRWSA SC 4-2 NRSD WELL NEAR LITHIA FL	05-05-99	45.41
		09-09-99	46.10
275152082035801	EDISON JCT FLORIDAN WELL NEAR KEYSVILLE FL	05-05-99	29.39
		09-09-99	54.32
275152082121401	WCRWSA SC-1 FLORIDAN WELL NEAR LITHIA FL	05-05-99	8.13
		09-09-99	22.93
275152082121403	WCRWSA SC-1 NRSD WELL NEAR LITHIA FL	05-05-99	66.90
		09-09-99	68.83
275158082085101	WCRWSA GRASSY GULCH FLORIDAN WELL NEAR LITHIA FL	05-05-99	1.41
		09-09-99	32.05
275158082085102	WCRWSA GRASSY GULCH INTERMEDIATE WELL NR LITHIA FL	05-05-99	30.83
		09-09-99	36.37
275210082171001	MCMULLEN CAMPGROUND SO E RIVERVIEW FL	05-10-99	6.62
275227082310101	ROBINSON HIGH SCHOOL STADIUM DEEP WELL AT TAMPA FL	05-10-99	.68
		09-13-99	1.87
275232082052603	WCRWSA SC-15 UPPER INTERMEDIATE WELL NR LITHIA FL	05-05-99	22.85
		09-09-99	48.83

HILLSBOROUGH COUNTY

STATION NUMBER	STATION NAME	DATE	ELEV-ATION ABOVE NGVD (FEET) (72020)
275235082033601	WCRWSA SCGM-4 FLORIDAN WELL NEAR LITHIA FL	05-04-99	30.52
		09-09-99	53.73
275235082033602	WCRWSA SCHM-4 INTERMEDIATE WELL NEAR LITHIA FL	05-04-99	61.47
		09-09-99	75.05
275235082033603	WCRWSA SCHM-4 NRSD WELL NEAR LITHIA FL	05-04-99	100.26
		09-09-99	102.14
275316082285901	TAMPA YACHT AND RIDING STABLES AT BALLAST POINT FL	05-10-99	1.59
		09-13-99	2.36
275323082080601	WCRWSA SCHM-11 FLORIDAN WELL NEAR LITHIA FL	05-04-99	10.68
		09-09-99	40.50
275336082125401	WCRWSA SCHM-8 FLORIDAN WELL NEAR LITHIA FL	05-04-99	10.32
		09-09-99	13.96
275336082125402	WCRWSA SCHM-8 INTERMEDIATE WELL NEAR LITHIA FL	05-04-99	10.25
		09-09-99	13.84
275402082222701	ROMP TR10-2 DEEP WELL NEAR TAMPA FL	05-11-99	7.16
		09-15-99	10.65
275402082222702	ROMP TR 10-2 SHALLOW WELL NEAR TAMPA FL	05-11-99	11.35
		09-15-99	13.72
275429082093902	WCRWSA SCHM-9 INTERMEDIATE WELL NEAR LITHIA FL	05-04-99	27.50
		09-09-99	44.30
275438082162301	OAKMONT DEEP NEAR BRANDON FL	05-05-99	11.25
		09-09-99	15.04
275458082310301	M.MURPHY,4317 SAN LUIS AT TAMPA FL	05-10-99	4.04
		09-13-99	5.26
275526082301301	PLANT HIGH SCHOOL STADIUM DEEP WELL AT TAMPA FL	05-10-99	8.92
		09-13-99	10.58
275529082143301	BRANDON RIDGELAND WELL NEAR BRANDON FL	05-11-99	11.23
		09-14-99	15.26
275547082044801	WCRWSA SCHM-3 FLORIDAN WELL NEAR LITHIA FL	05-04-99	41.04
		09-09-99	62.51
275547082044802	WCRWSA SCHM-3 INTERMEDIATE WELL NEAR LITHIA FL	05-04-99	53.93
		09-09-99	66.96
275609082191401	HILLSBOROUGH MEM CEM DEEP NEAR BRANDON FL	05-11-99	11.63
		09-15-99	15.64
275613082094401	WCRWSA SCHM-2 FLORIDAN WELL NEAR LITHIA FL	05-04-99	32.76
		09-09-99	52.78
275613082094402	WCRWSA SCHM-2 INTERMEDIATE WELL NEAR LITHIA FL	05-04-99	58.38
		09-09-99	62.62

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1998 TO SEPTEMBER 1999

HILLSBOROUGH COUNTY

STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (FEET) (72020)
275613082094403	WCRWSA SCHM-2 NRSD WELL NEAR LITHIA FL	05-04-99	65.60
		09-09-99	65.60
275630082275201	NCNB NAT'L BANK,249 SO HYDE PARK AT TAMPA,FL	05-10-99	6.88
		09-13-99	8.16
275631082293801	A.MESSINA,305 SO.MACDILL AVE AT TAMPA FL	05-10-99	9.85
		09-13-99	11.27
275634082305701	CLEVELAND AND HUBERT DEEP WELL AT TAMPA FL	05-10-99	.71
		09-13-99	1.07
275705082222001	ROMP TR 11-2 SUWANNEE WELL NEAR TAMPA FL	05-11-99	12.34
		09-15-99	14.63
275747082184001	BRANDON 17 NEAR BRANDON FL	05-14-99	13.75
		09-16-99	16.23
275759082085402	ROMP DV-2 LOWER HAWTHORN WELL AT DOVER FL	05-12-99	47.34
		09-14-99	65.87
275820082324602	ROMP TR 12-1 NRSD RPLC. WELL NEAR TAMPA, FL	05-10-99	4.53
		09-13-99	5.96
275843082222201	W.D.FUSSELL 618 WELL NEAR TAMPA FL	05-14-99	16.42
		09-16-99	17.95
275905082292901	THE WOODLANDS APTS,4714 NO HABANA AT TAMPA FL	05-10-99	14.66
		09-13-99	16.07
275926082123402	ROMP DV-1 LOWER HAWTHORN WELL AT DOVER FL	05-12-99	42.90
		09-14-99	54.81
275926082123403	ROMP DV-1 TAMPA WELL AT DOVER FL	05-12-99	42.32
		09-14-99	54.34
275926082123404	ROMP DV-1 AVON PARK WELL AT DOVER FL	05-12-99	43.07
		09-14-99	54.62
280012082204901	USCE WELL TBC-05 NEAR TEMPLE TERRACE FL	05-14-99	14.91
		09-16-99	17.10
280042082142301	GRIFFIN 2 DEEP WELL NEAR DOVER FL	05-14-99	40.45
		09-16-99	44.30
280055082222701	USCE TBC-09 NEAR TEMPLE TERRACE FL	09-01-99	20.76
280305082185101	J. W. MORRIS WELL NEAR TEMPLE TERRACE FL	05-12-99	21.71
280350082104401	FISHER FL	05-12-99	73.51
		09-14-99	79.92
280354082335501	WELL 803 233 5455 FL	05-11-99	15.15
		09-16-99	18.70
280354082381901	ROMP TR 13-3 FLR WELL NEAR CITRUS PARK FL	05-11-99	12.69
		09-14-99	14.68

HILLSBOROUGH COUNTY

STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (FEET) (72020)
280413082061401	MA QUAGLIANI WELL NEAR PLANT CITY FL	05-12-99	84.05
		09-14-99	90.14
280420082285501	USGS DEEP WELL 402 NEAR LUTZ FL	05-11-99	34.18
		09-13-99	37.13
280438082075301	MARTIN M GRIFFIN ROAD WELL NEAR KNIGHTS FL	05-12-99	87.44
280504082365501	ST PETE DEEP WELL E102 NEAR CITRUS PARK FL	05-11-99	14.95
		09-14-99	18.83
280550082202901	MORRIS BRIDGE DEEP 10 NEAR BRANCHTON FL	05-10-99	18.62
		09-13-99	23.87
280603082385401	ST PETE E-103 DEEP NEAR OLDSMAR FL	05-05-99	14.99
		09-08-99	18.17
280605082184101	MORRIS BRIDGE DEEP WELL 12 NEAR BRANCHTON FL	05-10-99	19.56
		09-13-99	24.83
280655082193001	MORRIS BRIDGE DEEP WELL 3A NEAR BRANCHTON FL	05-10-99	20.85
		09-13-99	29.98
280659082175201	MORRIS BRIDGE DEEP 13 NEAR BRANCHTON FL	05-10-99	22.58
		09-13-99	29.49
280659082294302	BERGER DEEP WELL NEAR LUTZ FL	05-11-99	36.12
		09-13-99	41.48
280659082294303	BERGER SHALLOW WELL 2 NEAR CITRUS PARK FL	05-11-99	46.47
		09-13-99	49.60
280702082302801	HILLSBOROUGH DEEP WELL 13 NEAR CITRUS PARK FL	05-11-99	27.69
		09-13-99	35.00
280702082302802	HILLSBOROUGH SHALLOW WELL 13 NEAR CITRUS PARK FL	05-11-99	45.42
		09-13-99	43.07
280734082313301	SEC 21 GOODWIN WELL NEAR LUTZ FL	05-11-99	29.09
		09-14-99	33.72
280852082135601	HILLSBOROUGH RD STATE PARK DP NEAR ZEPHYRHILLS FL	05-12-99	36.59
		09-16-99	37.72
280901082310401	ROMP-01 DEEP WELL NEAR CITRUS PARK FL	05-05-99	36.40
		09-08-99	40.99
280920082322102	LUTZ-LAKE FERN SHALLOW WELL NEAR LUTZ FL	05-11-99	33.63
		09-14-99	38.50
280926082162101	MORRIS BRIDGE DEEP WELL 532 NEAR BRANCHTON FL	09-16-99	43.55

WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

HILLSBOROUGH COUNTY

DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
280055082222701 USCE TBC-09 NEAR TEMPLE TERRACE FL (LAT 28 00 55N LONG 082 22 27W)											
SEP 1999											
01...	1045	20.76	458	24.5	20	67	7.1	11	.8	50	22
280058082202201 EUREKA SPRINGS DEEP WELL NEAR TEMPLE TERRACE FL (LAT 28 00 58N LONG 082 20 22W)											
SEP 1999											
01...	0930	17.52	366	26.5	100	58	4.0	5.1	7.6	47	5.4

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)
280055082222701 USCE TBC-09 NEAR TEMPLE TERRACE FL (LAT 28 00 55N LONG 082 22 27W)										
SEP 1999										
01...	.22	13	274	<.01	<.02	.08	<.20	.09	.05	21
280058082202201 EUREKA SPRINGS DEEP WELL NEAR TEMPLE TERRACE FL (LAT 28 00 58N LONG 082 20 22W)										
SEP 1999										
01...	.20	13	249	.01	1.2	.03	.81	.12	.11	66

DATE	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
280055082222701 USCE TBC-09 NEAR TEMPLE TERRACE FL (LAT 28 00 55N LONG 082 22 27W)										
SEP 1999										
01...	1.3	<1.0	<1.0	1.3	1300	<1	<.1	1.9	1000	3.1
280058082202201 EUREKA SPRINGS DEEP WELL NEAR TEMPLE TERRACE FL (LAT 28 00 58N LONG 082 20 22W)										
SEP 1999										
01...	7.7	<1.0	4.8	75	E111	8	<.1	2.1	680	73

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The following water level data were collected from October 1998 through May 1999 as part of a study to evaluate the effects of augmenting lakes with ground water.

STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (72020)
Surficial aquifer water-levels			
280504082333301	HALFMOON LAKE 23 NRSD WELL NEAR CITRUS PARK FL	10-06-98	39.91
		11-04-98	38.56
		12-03-98	38.12
		01-07-99	38.33
		02-04-99	38.28
		03-01-99	37.49
		04-05-99	37.12
		05-05-99	36.19
280517082331501	HALFMOON LAKE 18 NRSD WELL NEAR CITRUS PARK FL	11-05-98	45.82
		12-03-98	44.98
		01-07-99	44.59
		02-04-99	44.42
		03-02-99	43.88
		04-06-99	43.42
		05-05-99	42.78
280519082322601	HALFMOON LAKE 20 NRSD WELL NEAR CITRUS PARK FL	10-06-98	51.13
		11-04-98	49.30
		12-03-98	48.28
		01-07-99	48.11
		02-04-99	48.24
		03-02-99	47.20
		04-06-99	46.94
280530082325601	HALFMOON LAKE 1 NRSD WELL NEAR CITRUS PARK FL	10-08-98	46.23
		11-05-98	44.87
		12-03-98	43.53
		01-07-99	43.20
		02-04-99	43.09
		03-02-99	42.20
		04-06-99	41.54
		05-05-99	40.85
280531082320301	HALFMOON LAKE 35 NRSD WELL NEAR CITRUS PARK FL	10-06-98	48.94
		11-04-98	48.68
		12-01-98	48.34
		01-07-99	48.61
		02-04-99	48.75
		03-02-99	48.20
		04-06-99	47.92
		05-05-99	47.23
280539082324301	HALFMOON LAKE 13 NRSD WELL NEAR CITRUS PARK FL	10-06-98	49.17
		11-05-98	48.44
		12-03-98	46.53
		01-07-99	46.31
		02-04-99	46.28
		03-02-99	45.51
		04-06-99	44.93
		05-05-99	44.57

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STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (72020)
Surficial aquifer water-levels--continued			
280540082325601	HALFMOON LAKE 27 NRSD WELL NEAR CITRUS PARK FL	10-08-98	43.68
		11-05-98	43.35
		12-03-98	43.12
		01-07-99	42.56
		02-04-99	42.43
		03-02-99	41.96
		04-06-99	41.68
		05-05-99	40.65
280541082330201	HALFMOON LAKE 12 NRSD WELL NEAR CITRUS PARK FL	10-08-98	44.61
		11-05-98	42.73
		12-03-98	41.52
		01-07-99	41.35
		02-04-99	41.48
		03-02-99	41.67
		04-06-99	40.22
		05-05-99	39.29
280544082324701	HALFMOON LAKE 8 NRSD WELL NEAR CITRUS PARK FL	10-06-98	44.32
		11-05-98	43.72
		12-03-98	43.27
		01-07-99	43.34
		02-04-99	43.07
		03-02-99	42.89
		04-06-99	42.11
		05-05-99	41.40
280544082324702	HALFMOON LAKE 7 NRSD WELL NEAR CITRUS PARK FL	10-06-98	44.20
		11-05-98	43.89
		12-03-98	43.17
		01-07-99	43.09
		02-04-99	42.97
		03-02-99	42.52
		04-06-99	42.02
		05-05-99	41.33
280544082324703	HALFMOON LAKE 6 NRSD WELL NEAR CITRUS PARK FL	10-06-98	44.05
		11-05-98	43.75
		12-03-98	43.08
		01-07-99	43.01
		02-04-99	42.92
		03-02-99	41.90
		04-06-99	41.89
		05-05-99	41.29
280544082324704	HALFMOON LAKE 30 NRSD WELL NEAR CITRUS PARK FL	10-06-98	35.98
		11-05-98	32.95
		12-03-98	33.43
		01-07-99	33.32
		02-04-99	33.91
		03-02-99	32.65
		04-06-99	31.03
		05-05-99	28.92

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STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (72020)
Surficial aquifer water-levels--continued			
280544082324706	HALFMOON LAKE 32 NRSD WELL NEAR CITRUS PARK FL	10-06-98	43.58
		11-05-98	43.27
		12-03-98	42.87
		01-07-99	42.59
		02-04-99	42.52
		03-02-99	42.11
		04-06-99	41.62
		05-05-99	41.00
280546082324301	HALFMOON LAKE 5 NRSD WELL NEAR CITRUS PARK FL	10-06-98	50.20
		11-05-98	48.50
		12-03-98	47.33
		01-07-99	46.96
		02-04-99	47.05
		03-02-99	46.22
		04-06-99	45.75
		05-05-99	45.26
280550082325501	HALFMOON LAKE 25 NRSD WELL NEAR CITRUS PARK FL	10-08-98	43.61
		11-05-98	43.28
		12-03-98	42.84
		01-07-99	42.67
		02-04-99	42.47
		03-02-99	42.00
		04-07-99	41.75
		05-05-99	40.73
280550082330201	HALFMOON LAKE 11 NRSD WELL NEAR CITRUS PARK FL	10-08-98	45.10
		11-05-98	43.40
		12-03-98	42.28
		01-07-99	42.27
		02-04-99	42.22
		03-02-99	41.58
		04-06-99	41.12
		05-05-99	40.40
280551082325201	HALFMOON LAKE 10 NRSD WELL NEAR CITRUS PARK FL	10-08-98	43.55
		11-05-98	43.33
		12-03-98	42.72
		01-07-99	42.54
		02-04-99	42.45
		03-02-99	41.99
		04-06-99	41.41
		05-05-99	40.66
280552082324501	HALFMOON LAKE 14 NRSD WELL NEAR CITRUS PARK FL	10-06-98	49.70
		11-05-98	48.70
		12-03-98	47.74
		01-07-99	47.62
		02-04-99	47.57
		03-02-99	46.84
		04-06-99	46.27
		05-05-99	45.63

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STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (72020)
Surficial aquifer water-levels--continued			
280552082325401	HALFMOON LAKE 24 NRSD WELL NEAR CITRUS PARK FL	10-08-98	43.61
		11-05-98	43.32
		12-03-98	42.74
		01-07-99	42.63
		02-04-99	42.44
		03-02-99	41.96
		04-07-99	41.48
		05-05-99	40.81
280552082325402	HUTCHINSON 60 NRSD WELL NEAR CITRUS PARK FL	10-08-98	44.04
		11-05-98	43.57
		12-03-98	42.67
		01-04-99	43.02
		02-04-99	42.51
		03-02-99	42.02
		04-07-99	41.54
		05-07-99	40.83
280552082325403	HALFMOON LAKE 3 NRSD WELL NEAR CITRUS PARK FL	10-08-98	44.05
		11-05-98	43.54
		12-03-98	42.68
		01-07-99	42.85
		02-04-99	42.50
		03-02-99	42.01
		04-07-99	41.55
		05-05-99	40.94
280552082325404	HALFMOON LAKE 4 NRSD WELL NEAR CITRUS PARK FL	10-08-98	44.00
		11-05-98	43.52
		12-03-98	42.63
		01-07-99	42.81
		02-04-99	42.48
		03-02-99	41.96
		04-07-99	41.52
		05-05-99	40.87
280554082324901	HALFMOON LAKE 29 NRSD WELL NEAR CITRUS PARK FL	10-06-98	43.59
		11-05-98	43.22
		12-03-98	42.79
		01-07-99	42.45
		02-04-99	42.37
		03-02-99	42.05
		04-06-99	41.57
		05-05-99	40.67
280557082324501	HALFMOON LAKE 2 NRSD WELL NEAR CITRUS PARK FL	10-06-98	47.57
		11-05-98	47.63
		12-03-98	47.08
		01-07-99	47.04
		02-04-99	47.01
		03-02-99	46.45
		04-06-99	45.84
		05-05-99	45.04

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STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (72020)
Surficial aquifer water-levels--continued			
280557082330701	HALFMOON LAKE 9A NRSD WELL NEAR CITRUS PARK FL	10-08-98	44.68
		11-05-98	43.32
		12-03-98	42.25
		01-07-99	42.36
		02-04-99	42.35
		03-02-99	41.60
		04-06-99	41.07
		05-05-99	40.00
280558082325501	HALFMOON LAKE 28 NRSD WELL NEAR CITRUS PARK FL	10-06-98	43.87
		11-05-98	43.43
		12-03-98	42.79
		01-07-99	42.64
		02-04-99	42.54
		03-02-99	42.12
280558082330301	HALFMOON LAKE 26 NRSD WELL NEAR CITRUS PARK FL	10-06-98	43.69
		11-05-98	43.31
		12-03-98	42.72
		01-07-99	42.53
		02-04-99	42.46
		03-02-99	41.96
		04-06-99	41.42
		05-05-99	40.63
280600082325901	HALFMOON LAKE 9 NRSD WELL NEAR CITRUS PARK FL	10-06-98	46.50
		11-05-98	44.99
		12-03-98	44.22
		01-07-99	44.07
		02-04-99	44.08
		03-02-99	43.46
		04-06-99	43.12
		05-05-99	42.17
280623082321401	HALFMOON LAKE 33 NRSD WELL NEAR CITRUS PARK FL	10-06-98	52.33
		11-04-98	50.93
		12-01-98	51.66
		01-07-99	50.79
		02-03-99	50.78
		03-03-99	50.11
		04-06-99	49.77
		05-05-99	48.74
280624082323901	HALFMOON LAKE 16 NRSD WELL NEAR CITRUS PARK FL	10-06-98	51.40
		11-04-98	50.47
		12-01-98	49.89
		01-07-99	49.94
		02-04-99	49.73
		03-03-99	49.17
		04-06-99	48.89
		05-04-99	48.02

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STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (72020)
Surficial aquifer water-levels--continued			
280626082330401	HALFMOON LAKE 17 NRSD WELL NEAR CITRUS PARK FL	10-06-98	48.85
		11-04-98	46.71
		12-03-98	45.94
		01-07-99	45.81
		02-04-99	45.62
		03-02-99	44.96
		04-06-99	44.53
		05-04-99	43.77
280626082331701	HALFMOON LAKE 21 NRSD WELL NEAR CITRUS PARK FL	10-06-98	45.76
		11-04-98	45.02
		12-03-98	44.34
		01-07-99	44.64
		02-04-99	44.41
		03-02-99	44.27
		04-06-99	43.44
		05-04-99	42.79
280638082293201	ROUND LAKE 18 NRSD WELL NEAR LUTZ FL	10-06-98	51.39
		11-03-98	48.59
		12-01-98	47.70
		01-04-99	47.00
		02-02-99	46.89
		03-01-99	45.84
		04-05-99	44.58
		05-04-99	42.53
280646082295101	ROUND LAKE 19 NRSD WELL NEAR LUTZ FL	10-06-98	51.68
		11-03-98	49.52
		12-01-98	48.51
		01-04-99	47.67
		02-02-99	47.71
		03-01-99	47.04
		04-05-99	46.11
		05-04-99	44.77
280648082300701	ROUND LAKE 13 NRSD WELL NEAR CITRUS PARK FL	10-06-98	53.65
		11-03-98	51.63
		12-01-98	50.86
		01-04-99	50.47
		02-02-99	50.32
		03-01-99	49.65
		04-05-99	49.01
		05-04-99	48.34
280648082302602	USGS 6-30-5S WELL NEAR LUTZ FL	10-06-98	54.44
		11-03-98	52.19
		12-01-98	50.91
		01-06-99	49.82
		02-03-99	49.36
		03-02-99	48.62
		04-05-99	47.47
		05-02-99	46.49

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STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (72020)
Surficial aquifer water-levels--continued			
280650082301402	USGS SHALLOW WELL 466 NEAR LUTZ FL	10-06-98	53.81
		11-03-98	52.20
		12-01-98	51.41
		01-06-99	50.59
		02-03-99	50.07
		03-02-99	48.92
		04-05-99	47.54
		05-03-99	46.24
280654082305802	SECTION 21 SHALLOW WELL 3A NEAR LUTZ FL	10-06-98	53.13
		11-03-98	51.67
		12-01-98	51.03
		01-06-99	51.08
		02-03-99	50.88
		03-02-99	49.81
		04-05-99	48.94
		05-03-99	48.14
280656082295501	ROUND LAKE 25 NRSD WELL NEAR LUTZ FL	10-06-98	52.10
		11-03-98	49.33
		12-01-98	47.95
		01-04-99	46.92
		02-02-99	46.42
		03-01-99	45.54
		04-05-99	44.30
		05-04-99	42.58
280659082294303	BERGER SHALLOW WELL 2 NEAR CITRUS PARK FL	10-06-98	54.25
		11-03-98	51.86
		12-01-98	50.54
		01-06-99	49.44
		02-02-99	48.89
		03-01-99	48.17
		04-05-99	47.40
		05-04-99	46.53
280659082310101	DOSSON LAKE 31 NRSD WELL NEAR LUTZ FL	10-09-98	54.67
		11-03-98	53.38
		12-01-98	52.82
		01-06-99	52.82
		02-03-99	52.78
		03-03-99	51.78
		04-06-99	51.00
		05-03-99	50.35
280702082302802	HILLSBOROUGH SHALLOW WELL 13 NEAR CITRUS PARK FL	10-06-98	52.24
		11-03-98	51.05
		12-01-98	50.29
		01-06-99	49.80
		02-03-99	49.26
		03-02-99	48.30
		04-05-99	47.11
		05-03-99	45.75

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STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (72020)
Surficial aquifer water-levels--continued			
280702082312501	DOSSON LAKE 32 NRSD WELL NEAR LUTZ FL	10-09-98	52.00
		11-03-98	50.79
		12-01-98	50.14
		01-06-99	50.37
		02-03-99	50.63
		03-03-99	49.60
		04-06-99	48.97
		05-03-99	48.29
280706082300301	RUSTY WELL NRSD AT BERGER ROAD NEAR LUTZ FL	10-06-98	50.99
		11-03-98	51.09
		12-01-98	50.98
		01-06-99	50.71
		02-02-99	50.42
		03-01-99	50.11
		04-05-99	49.19
280706082300401	ROUND LAKE 7 NRSD WELL NEAR LUTZ FL	10-06-98	53.01
		11-03-98	50.82
		12-01-98	49.58
		01-06-99	49.35
		02-02-99	47.92
		03-01-99	47.21
		04-05-99	46.16
		05-04-99	44.97
280707082292701	ROUND LAKE 17 NRSD WELL NEAR LUTZ FL	10-06-98	55.62
		11-03-98	53.62
		12-01-98	52.68
		01-06-99	51.75
		02-02-99	51.48
		03-01-99	50.54
		04-05-99	49.49
		05-04-99	48.32
280707082300801	ROUND LAKE 8 NRSD WELL NEAR TAMPA FL	10-06-98	54.02
		11-03-98	51.88
		12-01-98	50.72
		01-06-99	49.30
		02-02-99	49.30
		03-01-99	48.60
		04-05-99	47.77
		05-04-99	46.76
280707082322601	DOSSON LAKE 39 NRSD WELL NEAR LUTZ FL	10-08-98	54.44
		11-04-98	52.85
		12-01-98	52.07
280709082324601	DOSSON LAKE 40 NRSD WELL NEAR LUTZ FL	10-08-98	49.89
		11-03-98	48.56
		12-01-98	48.31
		01-07-99	48.80
		02-03-99	48.90
		03-03-99	47.92
		04-06-99	47.40
		05-04-99	46.67

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STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (72020)
Surficial aquifer water-levels--continued			
280710082295901	ROUND LAKE 4 DEEP NRSD WELL NEAR LUTZ FL	10-06-98	53.46
		11-03-98	51.86
		12-01-98	51.31
		01-06-99	50.84
		02-02-99	50.90
		03-01-99	50.42
		04-05-99	50.16
		05-04-99	48.96
280710082295902	ROUND LAKE 5 INT DEEP NRSD WELL NEAR LUTZ FL	10-06-98	53.44
		11-03-98	51.84
		12-01-98	51.29
		01-06-99	50.85
		02-02-99	50.86
		03-01-99	50.37
		04-05-99	50.11
		05-04-99	48.93
280710082295903	ROUND LAKE 6 SHALLOW NRSD WELL NEAR LUTZ FL	10-06-98	53.39
		11-03-98	51.78
		12-01-98	51.23
		01-06-99	50.77
		02-02-99	50.81
		03-01-99	50.32
		04-05-99	50.06
		05-04-99	48.87
280710082320001	DOSSON LAKE 36 NRSD WELL NEAR LUTZ FL	10-08-98	56.09
		11-04-98	54.58
		12-01-98	53.93
		01-07-99	53.96
		02-03-99	54.07
		03-03-99	53.06
		04-06-99	52.46
		05-04-99	51.68
280712082314801	DOSSON LAKE 37 NRSD WELL NEAR LUTZ FL	10-08-98	55.31
		11-03-98	54.11
		12-01-98	53.65
		01-07-99	54.22
		02-03-99	54.15
		03-03-99	53.11
		04-06-99	52.56
		05-04-99	51.92
280713082295401	ROUND LAKE 12 NRSD WELL NEAR LUTZ FL	10-06-98	55.58
		11-03-98	53.25
		12-01-98	52.38
		01-06-99	51.91
		02-02-99	52.20
		03-01-99	51.19
		04-05-99	50.96
		05-04-99	50.16

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Surficial aquifer water-levels--continued			
280713082300601	ROUND LAKE 21 NRSD WELL NEAR CITRUS PARK FL	10-06-98	53.61
		11-03-98	52.59
		12-01-98	52.25
		01-04-99	52.08
		02-02-99	52.14
		03-01-99	52.03
		04-05-99	52.05
		05-04-99	51.04
280714082300701	ROUND LAKE 9 NRSD WELL NEAR CITRUS PARK FL	10-06-98	53.89
		11-03-98	51.26
		12-01-98	50.43
		01-04-99	49.91
		02-02-99	49.69
		03-01-99	48.98
		04-05-99	48.66
		05-04-99	47.32
280714082310601	DOSSON LAKE 30 NRSD WELL NEAR LUTZ FL	10-09-98	55.66
		11-03-98	54.39
		12-01-98	53.84
		01-06-99	54.06
		02-03-99	53.87
		03-03-99	52.95
		04-06-99	52.37
		05-03-99	48.90
280714082311801	DOSSON LAKE 24 NRSD WELL NEAR LUTZ FL	10-09-98	54.48
		11-03-98	52.85
		12-01-98	52.35
		01-06-99	52.93
		02-03-99	53.08
		03-03-99	51.81
		04-06-99	51.24
		05-06-99	50.51
280715082313001	DOSSON LAKE 28 NRSD WELL NEAR LUTZ FL	11-02-98	52.61
		12-15-98	52.11
		01-22-99	51.78
		03-12-99	51.08
		05-03-99	49.80
280715082313301	DOSSON LAKE 25 NRSD WELL NEAR LUTZ FL	11-02-98	52.58
		12-15-98	52.08
		01-22-99	51.73
		03-12-99	51.14
		05-03-99	49.84
280716082311801	DOSSON LAKE 23 NRSD WELL NEAR LUTZ FL	10-09-98	54.86
		11-03-98	53.52
		12-01-98	53.12
		01-06-99	53.21
		02-03-99	53.29
		03-03-99	52.23
		04-06-99	51.84
		05-03-99	51.08

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STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (72020)
Surficial aquifer water-levels--continued			
280717082295401	DEWEY THOMPSON SHALLOW WELL NEAR LUTZ FL	10-06-98	55.32
		11-03-98	53.07
		12-01-98	52.30
		01-06-99	51.21
		02-02-99	51.81
		03-01-99	50.88
		04-05-99	51.14
		05-04-99	49.90
280717082313601	DOSSON LAKE 14 NRSD WELL NEAR LUTZ FL	10-08-98	53.92
		11-04-98	52.50
		12-02-98	52.10
		01-07-99	51.92
		02-03-99	51.73
		03-03-99	51.13
		04-06-99	50.42
		05-03-99	48.42
280718082300001	ROUND LAKE 20 NRSD WELL NEAR LUTZ FL	10-06-98	53.70
		11-03-98	52.72
		12-01-98	52.29
		01-04-99	52.05
		02-02-99	52.06
		03-01-99	51.80
		04-05-99	51.79
		05-04-99	50.72
280718082300801	ROUND LAKE 10 NRSD WELL NEAR CITRUS PARK FL	10-06-98	55.35
		11-03-98	53.06
		12-01-98	51.77
		01-04-99	51.28
		02-02-99	50.92
		03-01-99	50.01
		04-05-99	49.18
		05-04-99	48.36
280720082313902	DOSSON LAKE 2 NRSD WELL NEAR LUTZ FL	10-09-98	53.03
		11-06-98	52.44
		12-02-98	51.23
		01-08-99	51.51
		02-05-99	51.21
		03-04-99	50.25
		04-07-99	49.42
		05-04-99	48.57
280720082313903	DOSSON LAKE 3 NRSD WELL NEAR LUTZ FL	10-09-98	53.89
		11-06-98	53.50
		12-02-98	52.23
		01-08-99	52.47
		02-05-99	52.27
		03-04-99	51.31
		04-07-99	50.61
		05-04-99	49.80

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STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (72020)
Surficial aquifer water-levels--continued			
280720082313904	DOSSON LAKE 4 NRSD WELL NEAR LUTZ FL	10-09-98	53.82
		11-06-98	53.40
		12-02-98	52.09
		01-08-99	52.90
		02-05-99	52.12
		03-04-99	51.19
		04-07-99	50.48
		05-04-99	49.69
280720082313905	DOSSON LAKE 5 NRSD WELL NEAR LUTZ FL	10-09-98	53.75
		11-06-98	53.33
		12-02-98	52.06
		01-08-99	52.33
		02-05-99	50.09
		03-04-99	51.17
		04-07-99	50.47
280721082300401	ROUND LAKE 11 NRSD WELL NEAR CITRUS PARK FL	10-06-98	55.56
		11-03-98	53.07
		12-01-98	51.85
		01-04-99	51.16
		02-02-99	50.78
		03-01-99	49.81
		04-05-99	48.79
		05-04-99	47.83
280721082320001	DOSSON LAKE 35 NRSD WELL NEAR LUTZ FL	10-08-98	56.90
		11-04-98	54.86
		12-01-98	54.28
		01-07-99	54.36
		02-03-99	54.46
		03-03-99	53.53
		04-06-99	52.96
		05-04-99	52.44
280722082314601	DOSSON LAKE 6 NRSD WELL NEAR LUTZ FL	10-09-98	54.46
		11-06-98	54.02
		12-02-98	54.27
		01-08-99	53.92
		02-05-99	53.74
		03-04-99	53.26
		05-04-99	52.46
280723082311801	DOSSON LAKE 22 NRSD WELL NEAR LUTZ FL	10-09-98	55.35
		11-03-98	53.94
		12-01-98	53.44
		01-06-99	53.89
		02-03-99	53.81
		03-03-99	53.00
		04-06-99	51.85
		05-03-99	50.99

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STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (72020)
Surficial aquifer water-levels--continued			
280724082293301	ROUND LAKE 14 NRSD WELL NEAR LUTZ FL	10-06-98	57.74
		11-03-98	56.15
		12-01-98	55.23
		01-04-99	54.60
		02-02-99	54.20
		03-01-99	53.45
		04-05-99	52.69
		05-04-99	51.93
280724082312901	DOSSON LAKE 20 NRSD WELL NEAR LUTZ FL	10-09-98	53.20
		11-03-98	52.62
		12-01-98	52.14
		01-06-99	51.90
		02-03-99	51.85
		03-03-99	51.15
		04-06-99	50.45
		05-03-99	49.52
280725082321401	DOSSON LAKE 38 NRSD WELL NEAR LUTZ FL	10-08-98	55.54
		11-04-98	55.21
		12-01-98	53.64
		01-07-99	53.86
		02-03-99	53.83
		03-03-99	52.93
		04-06-99	52.41
		05-04-99	51.76
280726082300001	ROUND LAKE 24 NRSD WELL NEAR LUTZ FL	10-06-98	54.79
		11-03-98	52.94
		12-01-98	51.87
		01-04-99	50.94
		02-02-99	50.14
		03-01-99	49.01
		04-05-99	47.85
		05-04-99	46.54
280726082305301	SECTION 21 455S ALTERNATE WELL NEAR LUTZ FL	10-06-98	53.66
		11-03-98	51.89
		12-01-98	51.22
		01-06-99	51.60
		02-02-99	51.48
280726082313101	DOSSON LAKE 19 NRSD WELL NEAR LUTZ FL	10-09-98	53.18
		11-03-98	52.80
		12-01-98	52.18
		01-06-99	52.03
		02-03-99	51.88
		03-03-99	51.33
		04-06-99	50.73
		05-03-99	49.87
280727082311901	DOSSON LAKE 21 NRSD WELL NEAR LUTZ FL	10-09-98	55.46
		11-03-98	53.90
		12-01-98	53.44
		01-06-99	53.98
		02-03-99	53.94
		03-03-99	52.17
		04-06-99	48.43
		05-03-99	47.79

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Surficial aquifer water-levels--continued			
280728082301103	ST PETE 21-7 SHALLOW WELL NEAR LUTZ FL	10-06-98	54.47
		11-03-98	52.71
		12-01-98	52.16
		01-06-99	52.21
		02-02-99	51.66
		03-01-99	50.78
		04-05-99	49.96
		05-03-99	48.77
280728082313701	DOSSON LAKE 9 NRSD WELL NEAR LUTZ FL	10-08-98	53.63
		11-04-98	52.74
		12-01-98	51.91
		01-06-99	52.10
		02-03-99	51.36
		03-03-99	50.39
		04-06-99	49.40
		05-03-99	48.30
280728082314501	DOSSON LAKE 8 NRSD WELL NEAR LUTZ FL	10-08-98	55.99
		11-04-98	54.20
		12-01-98	53.39
		01-06-99	53.25
		02-03-99	52.87
		03-03-99	52.16
		04-06-99	51.41
		05-03-99	50.70
280729082300501	SECTION 21 455 SHALLOW WELL NEAR LUTZ FL	10-06-98	50.92
		11-03-98	50.29
		12-01-98	49.60
		01-06-99	49.93
		02-02-99	49.45
		05-03-99	46.96
280729082313501	DOSSON LAKE 27 NRSD WELL NEAR LUTZ FL	11-02-98	52.61
		12-15-98	52.11
		01-22-99	51.78
		03-12-99	50.70
		05-03-99	49.15
280730082312901	DOSSON LAKE 18 NRSD WELL NEAR LUTZ FL	10-09-98	53.73
		11-03-98	52.44
		12-01-98	51.99
		01-06-99	52.48
		02-03-99	52.33
		03-03-99	51.42
		04-06-99	50.88
		05-03-99	51.05
280730082313201	DOSSON LAKE 26 NRSD WELL NEAR LUTZ FL	11-02-98	52.62
		12-15-98	52.13
		01-22-99	51.85
		03-12-99	51.22
		05-03-99	49.86

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STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (72020)
Surficial aquifer water-levels--continued			
280732082305802	ST. PETE SHALLOW WELL 26A NEAR LUTZ FL	10-01-98	55.54
		11-03-98	52.87
		12-01-98	52.33
		01-06-99	52.77
		02-02-99	52.52
		03-02-99	51.31
		04-05-99	50.65
		05-03-99	50.02
280733082312801	DOSSON LAKE 17 NRSD WELL NEAR LUTZ FL	10-09-98	54.52
		11-03-98	53.21
		12-01-98	52.73
		01-06-99	53.76
		02-03-99	52.95
		03-03-99	51.97
		04-06-99	51.92
		05-03-99	50.96
280733082313801	DOSSON LAKE 13 NRSD WELL NEAR LUTZ FL	10-08-98	53.70
		11-04-98	53.08
		12-01-98	52.19
		01-06-99	51.88
		02-03-99	51.62
		03-03-99	50.77
		04-06-99	49.75
		05-03-99	48.48
280733082313802	DOSSON LAKE 11 NRSD WELL NEAR LUTZ FL	10-08-98	53.70
		11-04-98	53.08
		12-01-98	52.13
		01-06-99	51.77
		02-03-99	51.57
		03-03-99	50.71
		04-06-99	49.70
		05-03-99	48.42
280733082313803	DOSSON LAKE 12 NRSD WELL NEAR LUTZ FL	10-08-98	53.75
		11-04-98	53.17
		12-01-98	52.32
		01-06-99	52.12
		02-03-99	51.55
		03-03-99	50.71
		04-06-99	49.70
		05-03-99	48.42
280734082323701	DOSSON LAKE 41 NRSD WELL NEAR LUTZ FL	10-06-98	52.86
		11-04-98	50.52
		12-01-98	50.15
		01-07-99	50.67
		02-04-99	50.52
		03-03-99	49.71
		04-06-99	49.24
		05-04-99	48.67

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STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (72020)
Surficial aquifer water-levels--continued			
280738082303301	SECTION 21 SHALLOW WELL 5B NEAR LUTZ FL	10-06-98	54.25
		11-03-98	52.20
		12-01-98	51.42
		01-06-99	51.36
		02-02-99	51.30
		03-01-99	50.16
		04-05-99	49.27
		05-03-99	48.35
280738082312901	DOSSON LAKE 15 NRSD WELL NEAR LUTZ FL	10-09-98	54.80
		11-03-98	53.58
		12-01-98	53.06
		01-06-99	53.75
		02-03-99	53.35
		03-03-99	52.32
		04-06-99	52.49
		05-03-99	51.23
280739082294202	VAN DYKE SHALLOW WELL NEAR LUTZ FL	10-06-98	57.69
		11-03-98	55.94
		12-01-98	55.21
		01-04-99	54.94
		02-02-99	54.50
		03-01-99	53.78
		04-05-99	52.97
		05-04-99	51.99
280739082313901	DOSSON LAKE 10 NRSD WELL NEAR LUTZ FL	10-08-98	54.29
		11-04-98	52.84
		12-01-98	52.45
		01-06-99	52.91
		02-03-99	52.43
		03-03-99	51.42
		04-06-99	49.95
		05-03-99	49.97
280740082295401	ROUND LAKE 15 NRSD WELL NEAR LUTZ FL	10-06-98	56.45
		11-03-98	54.77
		12-01-98	53.96
		01-04-99	53.77
		02-02-99	53.28
		03-01-99	52.47
		04-05-99	51.43
		05-04-99	50.24
280744082300801	ROUND LAKE 16 NRSD WELL NEAR LUTZ FL	10-06-98	58.56
		11-03-98	57.14
		12-01-98	56.86
		01-06-99	57.44
		02-02-99	57.40
		03-01-99	56.42
		04-05-99	55.74
		05-04-99	55.72

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STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (72020)
Surficial aquifer water-levels--continued			
280747082312501	DOSSON LAKE 34 NRSD WELL NEAR LUTZ FL	10-08-98	55.90
		11-03-98	54.95
		12-01-98	54.65
		01-06-99	54.85
		02-03-99	54.80
		03-03-99	53.99
		04-06-99	53.44
		05-03-99	52.65
280814082313201	DOSSON LAKE 33 NRSD WELL NEAR LUTZ FL	10-08-98	54.76
		11-03-98	54.35
		12-01-98	53.99
		01-06-99	54.09
		02-03-99	54.12
		03-03-99	53.47
		04-06-99	52.68
		05-03-99	51.76

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Upper Floridan aquifer water-levels			
280544082324705	HALFMOON LAKE 31 UP FLORIDAN NR CITRUS PARK FL	10-06-98	32.12
		11-05-98	28.64
		12-03-98	29.14
		01-07-99	28.94
		02-04-99	29.65
		03-02-99	27.37
		04-06-99	26.36
		05-05-99	23.94
280551082324001	HALFMOON LAKE AUGMENTATION WELL NR CITRUS PARK FL	10-06-98	32.56
		11-05-98	28.98
		12-03-98	29.39
		01-07-99	29.19
		02-04-99	29.99
		03-02-99	28.59
		04-06-99	26.42
		05-05-99	23.77
280552082325405	HUTCHINSON 59 FLORIDAN WELL NEAR CITRUS PARK FL	10-08-98	32.20
		11-05-98	29.30
		12-03-98	29.41
		01-04-99	29.20
		02-04-99	30.15
		03-02-99	28.80
		04-07-99	26.44
		05-07-99	23.83
280600082333001	ROMP 5 DEEP WELL NEAR CITRUS PARK FL	10-06-98	28.80
		11-04-98	24.55
		12-03-98	25.67
		01-07-99	25.35
		02-04-99	26.22
		03-02-99	24.72
		04-06-99	22.72
		05-04-99	20.25
280622082325401	NORTHWEST ELEM SCH FLORIDAN WELL NR CITRUS PARK FL	10-06-98	31.25
		12-03-98	28.99
		01-07-99	29.89
		03-02-99	28.64
		04-06-99	26.20
		05-04-99	23.80
280648082302601	USGS DEEP WELL 433 NEAR LUTZ FL	10-06-98	40.76
		11-03-98	36.75
		12-01-98	37.95
		01-06-99	37.14
		02-03-99	36.42
		03-02-99	34.89
		04-05-99	33.00
		05-03-99	28.80
280650082301401	USGS DEEP WELL 466 NEAR LUTZ FL	10-06-98	43.35
		11-03-98	39.83
		12-01-98	40.78
		01-06-99	39.60
		02-03-99	39.03
		03-01-99	35.47
		04-05-99	35.67
		05-03-99	32.40

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STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (72020)
Upper Floridan aquifer water-levels--continued			
280656082305801	SECTION 21 DEEP WELL 1 NEAR LUTZ FL	10-06-98	38.92
		11-03-98	34.53
		12-01-98	35.31
		01-06-99	35.53
		02-02-99	35.40
		03-02-99	33.59
		04-05-99	30.44
		05-03-99	25.63
280659082294302	BERGER DEEP WELL NEAR LUTZ FL	10-06-98	45.66
		11-03-98	42.59
		12-01-98	42.51
		01-06-99	41.92
		02-02-99	42.06
		03-01-99	40.22
		04-05-99	39.39
		05-04-99	34.95
280702082302801	HILLSBOROUGH DEEP WELL 13 NEAR CITRUS PARK FL	10-06-98	37.66
		11-03-98	33.71
		12-01-98	35.14
		01-06-99	34.28
		02-03-99	34.12
		03-02-99	32.46
		04-05-99	30.80
		05-03-99	26.17
280716082295701	DEWEY THOMPSON DEEP WELL NEAR LUTZ FL	10-06-98	45.32
		11-03-98	42.12
		12-01-98	42.11
		01-06-99	40.46
		02-02-99	41.05
		03-01-99	36.79
		04-05-99	39.94
		05-04-99	31.08
280720082313901	DOSSON LAKE 1 FLORIDAN WELL NEAR LUTZ FL	10-09-98	39.55
		11-06-98	36.67
		12-02-98	36.38
		01-08-99	36.57
		02-05-99	35.56
		03-04-99	34.18
		04-07-99	30.94
		05-04-99	27.81
280728082301101	ST PETE DEEP 21-7 NEAR LUTZ FL	10-06-98	42.24
		11-03-98	42.16
		12-01-98	42.11
		01-06-99	42.06
		02-02-99	42.03
		03-01-99	41.94
		04-05-99	41.76
		05-03-99	41.57

SPECIAL STUDY MISCELLANEOUS WATER LEVEL MEASUREMENTS
October 1998 to May 1999

HILLSBOROUGH COUNTY

STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (72020)
Upper Floridan aquifer water-levels--continued			
280728082301102	ST PETE INTERMEDIATE DEEP WELL 21-7 NEAR LUTZ FL	10-06-98	38.51
		11-03-98	34.76
		12-01-98	35.76
		01-06-99	35.44
		02-02-99	34.85
		03-01-99	33.17
		04-05-99	32.67
		05-03-99	28.02
280732082305801	ST PETE DEEP 26A WELL NEAR LUTZ FL	10-06-98	38.64
		11-03-98	34.73
		12-01-98	35.34
		01-06-99	35.85
		02-02-99	35.51
		03-02-99	34.03
		04-05-99	31.15
		05-03-99	27.46
280734082313301	SEC 21 GOODWIN WELL NEAR LUTZ FL	10-09-98	39.52
		11-03-98	35.53
		12-01-98	36.23
		01-06-99	36.13
		02-03-99	36.36
		03-03-99	33.53
		04-06-99	31.21
		05-03-99	27.93
280740082301201	SECTION 21 DEEP WELL 468 NEAR LUTZ FL	10-06-98	40.62
		11-03-98	36.94
		12-01-98	39.30
		01-06-99	37.65
		02-02-99	36.52
		03-01-99	36.34
		04-05-99	34.79
		05-03-99	30.84

KEY TO SITE LOCATIONS ON FIGURE 17

MANATEE COUNTY

INDEX NUMBER	SITE NUMBER	PAGE NUMBER
1	271832082064801	106
1	271832082064802	106
2	272058082143701	107
3	272356082181302	107
4	272404082161701	108
5	272539082292001	108
5	272539082292002	109
5	272539082292003	109
5	272539082292004	110
5	272539082292005	110
6	272838082142201	111
7	273458082324703	111
7	273458082324704	112
8	273718082315501	112

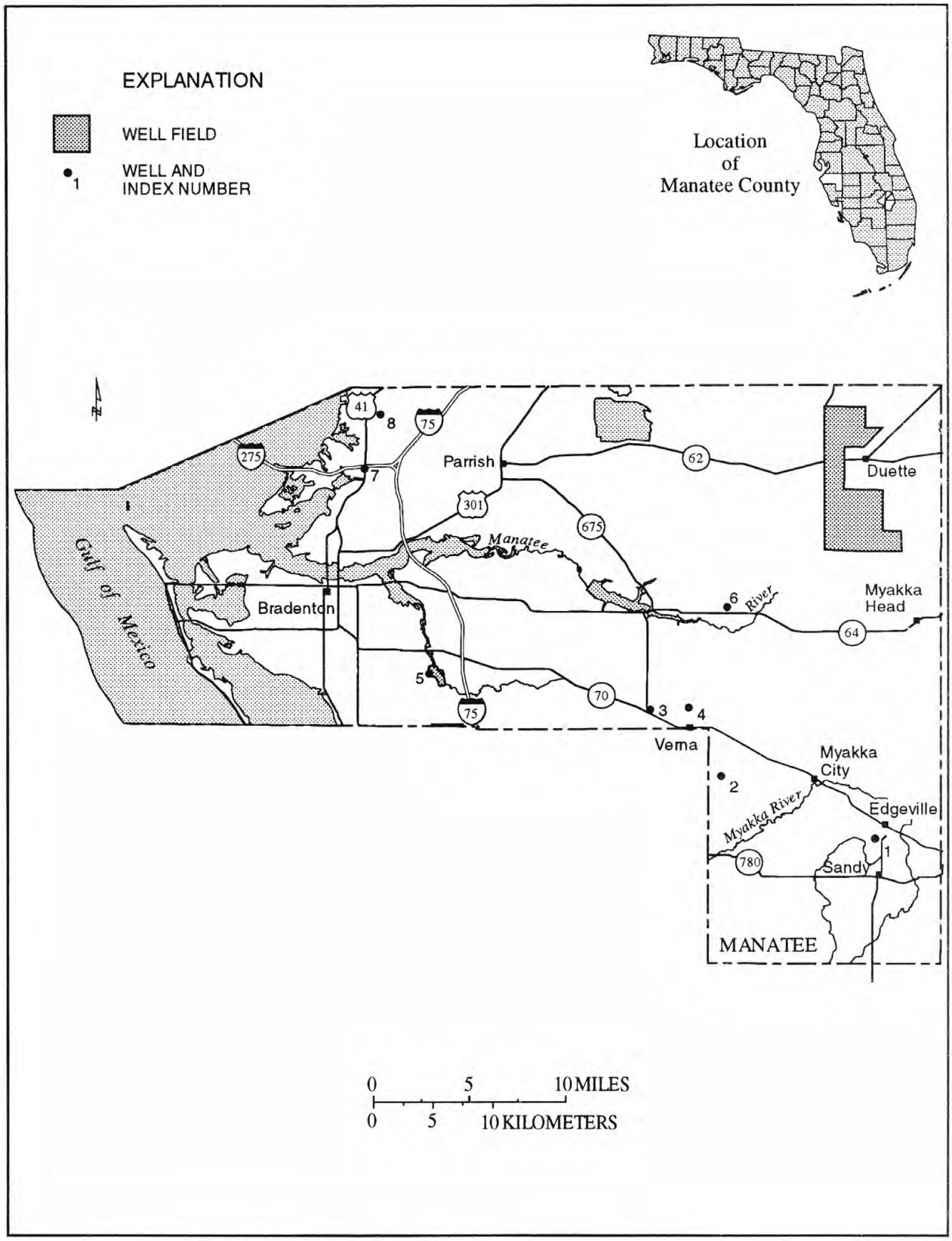

Figure 17.-- Location of wells in Manatee County.

MANATEE COUNTY

WELL NUMBER.--271832082064801. Edgeville Deep Well 3 at Edgeville, FL.

LOCATION.--Lat 27°18'32", long 82°06'48", in NE$^1/_4$NW$^1/_4$ 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 flange, 2.95 ft above land-surface datum.

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

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, 4.96 ft NGVD, Apr. 29, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	32.33	28.76	27.18	27.27	26.67	18.71	12.18	6.98	15.61	28.15	---	32.73
10	32.73	29.37	24.81	26.38	24.57	16.62	10.34	7.77	19.01	29.33	31.76	33.46
15	32.32	28.95	18.75	26.08	22.44	16.41	8.83	10.25	21.01	30.36	31.69	32.93
20	31.64	28.37	24.12	26.37	21.56	17.34	7.57	10.68	22.98	30.46	33.14	32.41
25	30.92	28.08	24.36	27.30	18.75	15.44	6.22	12.24	24.78	---	34.14	32.81
EOM	---	27.88	26.04	28.67	18.60	13.86	5.32	13.24	26.72	30.43	33.00	33.66
MAX	---	---	27.93	28.67	28.85	18.75	13.24	13.24	26.72	---	---	33.66

WELL NUMBER.--271832082064802. Edgeville Well 4 at Edgeville, FL.

LOCATION.--Lat 27°18'32", long 82°06'48", in NE$^1/_4$NW$^1/_4$ 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, 3.20 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 1998 TO SEPTEMBER 1999

DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)	DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)
OCT			MAY		
05...	1450	68.15	13...	0915	67.58
DEC			JUL		
08...	1020	67.14	01...	1405	69.23
JAN			AUG		
26...	1330	68.85	17...	1340	67.86
MAR					
30...	1430	66.80			

MANATEE COUNTY

WELL NUMBER.--272058082143701. Verna T Well 0-2 near Verna, FL.

LOCATION.--Lat 27°20'58", long 82°14'37", in $SW^1/_4NE^1/_4$ 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, 2.60 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, 7.31 ft below NGVD, May 8, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	24.51	18.03	16.59	17.38	19.23	7.93	-.92	-6.53	4.68	17.71	22.90	25.81
10	23.79	19.23	14.85	17.97	17.37	5.93	-2.62	-6.30	7.36	19.00	23.73	25.40
15	22.98	18.99	15.18	18.08	15.45	3.76	-4.93	-2.45	9.40	21.26	24.32	23.95
20	22.64	17.40	15.03	17.83	11.60	3.44	-5.45	-1.99	12.14	21.76	---	23.57
25	20.42	17.15	15.12	17.60	6.96	2.03	-6.00	-.04	14.23	21.92	25.63	24.15
EOM	17.53	18.05	16.07	18.57	8.39	1.11	-5.94	2.05	16.29	22.23	26.12	24.54
MAX	---	19.23	18.02	18.95	19.36	8.43	.74	2.05	16.29	22.26	---	26.06

WELL NUMBER.--272356082181302. Verna Deep Well 1A near Verna, FL.

LOCATION.--Lat 27°23'56", long 82°18'13", in $NW^1/_4NW^1/_4$ 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, 0.94 ft NGVD, May 9, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	26.58	21.62	21.03	21.81	22.90	13.11	---	1.30	8.40	18.45	22.12	25.03
10	26.41	22.32	19.50	21.33	22.76	12.56	---	1.19	10.73	19.34	22.68	24.84
15	25.18	22.42	19.53	21.95	20.91	11.47	6.11	2.22	12.10	20.23	23.60	24.69
20	24.28	21.56	19.85	21.83	17.66	11.19	6.52	2.91	14.23	21.56	24.43	24.34
25	24.41	21.22	19.71	21.79	15.65	10.05	2.73	5.04	15.60	21.88	24.99	24.99
EOM	22.95	21.58	20.71	23.04	14.57	8.97	1.27	6.32	16.98	21.84	25.33	25.25
MAX	26.64	22.51	21.71	23.04	23.19	14.36	---	6.32	16.98	21.92	25.41	25.25

CAL YR 1998 MAX 35.72

MANATEE COUNTY

WELL NUMBER.--272404082161701. Verna T Well 0-1 near Verna, FL.

LOCATION.--Lat 27°24'04", long 82°16'17", in $SE^1/_4SE^1/_4$ 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 recorder shelter floor, 3.09 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 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	24.82	16.08	14.90	17.65	18.43	6.02	-3.72	-9.43	3.73	17.98	22.17	25.19
10	23.39	17.90	13.70	16.91	16.94	4.30	-5.52	-9.15	6.78	19.19	23.51	24.15
15	22.06	16.68	14.30	17.46	14.14	3.13	-8.04	-5.63	9.00	20.73	23.94	22.81
20	21.02	15.70	14.02	16.53	11.84	1.64	-7.94	-5.20	11.37	21.82	24.68	22.37
25	19.87	15.30	14.28	17.22	8.59	.47	-9.82	---	13.98	22.42	25.21	23.24
EOM	16.85	16.59	15.82	18.49	7.45	-1.58	-10.50	---	15.96	22.03	25.64	23.85
MAX	24.83	17.90	16.38	18.61	18.76	7.28	-2.38	---	15.96	22.54	---	---

WELL NUMBER.--272539082292001. ROMP TR 7-4 Avon Park Well near Bradenton, FL.

LOCATION.--Lat 27°25'39", long 82°29'20", in $SW^1/_4NE^1/_4$ sec.22, T.35 S., R.18 E., Hydrologic Unit 03100202, on southwest shore of Ward Lake Reservoir, 1.25 mi south of State Highway 70, 2.0 mi west of Interstate I-75, 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.--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 flange, 10.57 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 September 1997 (periodic); October 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.51 ft NGVD, Oct. 4, 1994; lowest daily maximum, 1.17 ft below NGVD, May 5, 1990.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	19.60	13.68	12.77	14.48	16.29	8.84	3.41	-.30	---	---	17.39	19.06
10	19.17	14.97	12.05	14.75	15.81	7.77	1.83	-.51	---	---	18.09	19.31
15	18.00	14.86	12.43	15.04	14.38	6.50	.38	.10	9.24	17.14	18.49	19.41
20	16.73	13.73	12.56	14.51	12.61	---	.38	.59	---	17.58	18.91	18.66
25	15.78	13.12	12.71	14.60	10.69	5.63	.25	2.05	---	17.78	19.66	19.26
EOM	14.23	13.49	13.58	15.83	10.09	4.44	-.88	2.71	---	17.08	19.69	19.25
MAX	19.98	15.00	13.58	16.18	16.31	---	4.16	2.71	---	---	19.87	20.14

MANATEE COUNTY

WELL NUMBER.--272539082292002. ROMP TR 7-4 Suwannee Well near Bradenton, FL.

LOCATION.--Lat 27°25'39", long 82°29'20", in $SW^1/_4NE^1/_4$ sec.22, T.35 S., R.18 E., Hydrologic Unit 03100202, on southwest shore of Ward Lake Reservoir, 1.25 mi south of State Highway 70, 2.0 mi west of Interstate I-75, 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 flange, 13.35 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, 23.78 ft NGVD, Oct. 4, 1994; lowest, 1.01 ft below NGVD, May 5, 6, 1990.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	20.31	14.41	13.43	15.18	17.03	9.65	3.99	.22	---	---	18.21	19.87
10	19.91	15.71	12.75	---	16.57	8.55	2.38	-.08	---	---	18.91	20.10
15	18.64	15.63	13.14	---	15.08	7.22	.89	.65	9.85	18.00	19.31	20.21
20	17.29	14.43	13.30	---	13.28	---	.90	1.24	---	18.39	19.76	19.42
25	16.45	13.88	13.46	---	11.28	6.29	.73	2.61	---	18.60	20.43	20.05
EOM	14.98	14.13	14.32	16.55	10.78	5.03	-.35	3.74	---	17.80	20.50	20.06
MAX	20.31	15.76	14.32	---	---	---	4.79	3.74	---	---	20.67	20.33

WELL NUMBER.--272539082292003. ROMP TR 7-4 Tampa Well near Bradenton, FL.

LOCATION.--Lat 27°25'39", long 82°29'20", in $SW^1/_4NE^1/_4$ sec.22, T.35 S., R.18 E., Hydrologic Unit 03100202, on southwest shore of Ward Lake Reservoir, 1.25 mi south of State Highway 70, 2.0 mi west of Interstate I-75, 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.--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 flange, 13.02 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 September 1997 (periodic); October 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 23.40 ft NGVD, Feb. 3, 4, 1998; lowest, 0.88 ft below NGVD, May 9, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	20.26	14.50	13.75	15.39	17.14	9.71	4.04	-.36	---	---	18.22	19.93
10	19.92	15.81	13.01	15.66	16.70	8.63	2.33	-.74	---	---	18.91	20.14
15	18.70	15.76	13.26	15.98	15.22	7.27	.75	-.13	9.94	17.99	19.31	20.25
20	17.40	14.54	13.44	15.40	13.44	---	.62	.33	---	18.39	19.74	19.48
25	16.58	14.00	13.57	15.38	11.50	6.41	.38	1.67	---	18.60	20.48	20.10
EOM	15.08	14.43	14.42	16.66	10.91	5.16	-.84	2.80	---	17.78	20.53	20.11
MAX	20.26	15.88	14.42	16.66	17.14	---	4.92	2.80	---	---	20.72	20.39

MANATEE COUNTY

WELL NUMBER.--272539082292004. ROMP TR 7-4 Hawthorn Well near Bradenton, FL.

LOCATION.--Lat 27°25'39", long 82°29'20", in $SW^1/_4NE^1/_4$ sec.22, T.35 S., R.18 E., Hydrologic Unit 03100202, on southwest shore of Ward Lake Reservoir, 1.25 mi south of State Highway 70, 2.0 mi west of Interstate I-75, 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, 13.09 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, 19.12 ft NGVD, Oct. 20, 1995; lowest, 0.22 ft NGVD, June 11, 12, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	13.06	12.28	11.45	---	10.33	---	---	---	---	9.68	12.50
10	---	12.77	11.69	11.73	---	9.83	---	---	---	---	10.26	12.89
15	---	12.84	---	11.88	12.14	9.27	---	---	.61	7.19	10.65	13.26
20	---	---	---	11.83	11.79	---	---	---	---	7.89	11.24	13.48
25	---	---	---	11.92	---	---	---	---	---	8.56	11.75	13.66
EOM	13.14	---	---	12.06	---	---	---	---	---	9.07	12.23	13.91
MAX	---	---	---	---	---	---	---	---	---	---	12.23	13.91

WELL NUMBER.--272539082292005. ROMP TR 7-4 NRSD Well near Bradenton, FL.

LOCATION.--Lat 27°25'39", long 82°29'20", in $SW^1/_4NE^1/_4$ sec.22, T.35 S., R.18 E., Hydrologic Unit 03100202, on southwest shore of Ward Lake Reservoir, 1.25 mi south of State Highway 70, 2.0 mi west of Interstate I-75, 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.

PERIOD OF RECORD.--March 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 10.88 ft NGVD, Jan. 23, 1998; lowest, 4.62 ft NGVD, June 18, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.60	7.23	6.43	6.33	6.59	6.06	5.51	5.03	---	---	6.93	8.08
10	7.51	7.10	6.55	6.34	6.50	5.98	5.42	4.92	---	---	7.99	8.02
15	7.30	6.75	6.50	6.27	6.38	5.94	5.33	5.04	4.91	6.74	7.85	7.80
20	7.16	6.63	6.42	6.23	6.27	---	5.28	4.81	---	6.73	8.96	7.74
25	7.09	6.57	6.35	6.50	6.15	5.71	5.18	4.74	---	6.63	9.58	7.58
EOM	6.98	6.50	6.30	6.66	6.09	5.59	5.10	4.73	---	6.55	8.48	7.58
MAX	---	7.23	6.59	6.69	6.66	---	5.58	5.09	---	---	9.82	8.39

MANATEE COUNTY

WELL NUMBER.--272838082142201. Kibler Deep Well 26B near Bethany, FL.

LOCATION.--Lat 27°28'38", long 82°14'22", in $SE^1/_4NE^1/_4$ 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, 25.57 ft below NGVD, Apr. 29, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	19.80	8.52	6.88	11.48	11.50	-5.94	-17.09	-22.14	---	12.97	17.49	---
10	16.86	10.74	4.71	10.22	8.56	-9.12	-20.31	-20.56	.29	14.74	18.93	16.81
15	15.80	9.15	6.94	10.95	3.43	-7.68	-22.85	-15.78	3.29	16.30	19.65	16.11
20	13.35	7.24	6.46	9.35	.42	-11.29	-21.42	-15.14	6.18	17.45	19.85	16.60
25	11.51	8.00	7.17	10.93	-2.73	-14.09	-23.26	-10.63	8.77	17.85	20.98	17.12
EOM	7.27	9.25	9.04	11.76	-4.88	-16.18	-24.76	-8.56	10.91	17.06	20.91	18.18
MAX	20.05	10.89	9.04	12.28	11.96	-4.77	---	---	---	17.92	21.36	---

WELL NUMBER.--273458082324703. ROMP TR 8-1 Upper Avon Park Well at Rubonia, FL.

LOCATION.--Lat 27°34'58", long 82°32'47", in $NW^1/_4NW^1/_4$ 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, 20.84 ft NGVD, Oct. 6, 1994; lowest measured, 7.89 ft NGVD, May 17, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)	DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)
OCT			MAY		
01...	1405	19.54	17...	1210	7.89
NOV			JUN		
30...	1515	15.24	28...	1205	15.82
JAN			AUG		
25...	1335	16.73	09...	1230	18.23
MAR					
31...	0910	10.00			

MANATEE COUNTY

WELL NUMBER.--273458082324704. ROMP TR 8-1 Hawthorn REPLACEMENT Well at Rubonia, FL.

LOCATION.--Lat 27°34'58", long 82°32'47", in $NW^1/_4NW^1/_4$ 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 6 in., depth 160 ft, cased to 100 ft.

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

DATUM.--Land-surface datum is 15.20 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.11 ft above land-surface datum.

REMARKS.--Record for October 1993 to September 1994 previously published as ROMP TR 8-1 Hawthorn Well at Rubonia (273458082324702), is in error and should be disregarded. Correct elevations published in WRD FL-95-3B.

PERIOD OF RECORD.--October 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 16.63 ft NGVD, Feb. 16, 1998; lowest, 8.60 ft NGVD, May 23, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.28	13.75	13.15	13.37	14.09	13.23	11.26	9.22	9.11	11.64	13.25	14.24
10	14.37	13.69	13.00	13.53	14.11	12.88	10.82	8.97	9.61	12.10	13.37	14.54
15	14.29	13.73	13.04	13.64	13.98	12.60	10.38	8.77	9.95	12.44	13.51	14.69
20	14.13	13.62	13.12	13.68	13.86	12.38	9.97	8.68	10.44	12.73	13.76	14.78
25	13.91	13.47	13.14	13.78	13.62	12.13	9.74	8.65	10.83	12.86	14.04	14.86
EOM	13.71	13.35	13.23	13.70	13.51	11.71	9.41	8.80	11.19	12.99	14.19	15.02
MAX	14.38	13.75	13.31	13.88	14.12	13.48	11.69	9.34	11.19	12.99	14.19	15.02

WTR YR 1999 MAX 15.02

WELL NUMBER.--273718082315501. Florida Power and Light Well at Piney Point, FL.

LOCATION.--Lat 27°37'18", long 82°31'55", in $NE^1/_4SE^1/_4$ 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, 13.35 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, 20.99 ft NGVD, Jan. 27, 1998; lowest, 4.84 ft below NGVD, May 26, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	19.44	14.04	11.45	14.87	16.89	---	---	---	8.87	16.02	17.01	17.54
10	17.53	14.72	11.32	15.73	16.24	---	---	---	10.76	16.90	17.70	18.98
15	16.80	15.01	13.80	15.86	14.37	---	---	---	11.32	17.20	17.97	19.22
20	15.21	---	14.32	15.00	13.67	---	---	---	13.32	17.61	18.30	18.73
25	14.67	12.81	---	15.67	---	---	---	4.40	14.39	17.00	18.95	18.96
EOM	---	12.67	14.26	16.64	---	---	---	6.81	14.94	16.79	18.46	18.65
MAX	---	---	---	16.64	---	---	---	---	14.94	17.61	18.96	19.22

MANATEE COUNTY

STATION NUMBER	STATION NAME	DATE	ELEV-ATION ABOVE NGVD (FEET)
271906082112401	ROMP 23 DEEP NEAR MYAKKA CITY FL	05-11-99	3.18
		09-13-99	29.31
271906082112402	ROMP 23-2 (NORTH WELL) 48B NEAR MYAKKA CITY FL	05-11-99	2.10
		09-13-99	28.62
272051082094601	MYAKKA CITY COMM CNTR WELL NEAR MYAKKA CITY FL	05-11-99	14.77
		09-13-99	30.93
272412082303601	LOCKWOOD RIVER (BARTH) DEEP WELL NEAR BRADENTON FL	05-11-99	1.72
272423082051901	PARKS DEEP WELL NEAR MYAKKA HEAD FL	05-11-99	-7.51
272510082345701	ROMP TR 7-1 DEEP WELL NEAR BRADENTON FL	05-11-99	13.28
272537082033301	GOUGH FLORIDAN NEAR MYAKKA HEAD FL	05-11-99	-5.25
		09-13-99	30.09
272728082153002	ROMP 33 SUWANNEE NEAR BETHANY FL	05-10-99	-17.05
		09-13-99	18.98
272728082153003	ROMP 33 HAWTHORN NEAR BETHANY FL	05-10-99	22.24
		09-13-99	34.76
272728082153004	ROMP 33 NSRD NEAR BETHANY FL	05-10-99	66.64
		09-13-99	68.92
272735082083401	USGS DEEP WELL NEAR MYAKKA HEAD FL	05-10-99	-11.59
		09-13-99	25.63
272814082034802	ROMP 32 SUWANNEE WELL NEAR MYAKKA HEAD FL	05-10-99	-4.57
		09-13-99	31.40
272855082362001	MEADOWCROFT FLORIDAN WELL AT BRADENTON FL	05-12-99	7.16
		09-15-99	15.87
272905082264301	SR 64 DEEP WELL NEAR BRADENTON FL	05-12-99	-7.56
272940082360801	MILLER ELEMENTARY SCH HAWTHORN WELL BRADENTON FL	05-12-99	7.08
		09-15-99	16.65
273159082373101	SNEADS ISLAND NEAR PALMETTO FL	05-11-99	13.60
		09-15-99	21.95
273253082072801	ESTECH HAWTHORN 44 NEAR DUETTE FL	05-11-99	106.38
		09-14-99	108.12
273255082072601	SWIFT-AVON PARK ON DUETTE ROAD NEAR DUETTE FL	05-11-99	2.33
		09-14-99	33.93
273354082352401	GEORGE STEVENS WELL 27A NEAR TERRA CEIA FL	05-11-99	4.07
		09-15-99	11.43
273458082324705	ROMP TR 8-1 SUWANNEE WELL AT RUBONIA FL	05-11-99	9.15
		09-13-99	21.00

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1998 TO SEPTEMBER 1999

MANATEE COUNTY

STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (FEET) (72020)
273458082324707	ROMP TR 8-1 SURFICIAL WELL AT RUBONIA FL	05-11-99	6.74
		09-13-99	11.34
273459082253201	PARRISH DEEP WELL AT PARRISH FL	05-10-99	-9.24
273506082253701	ELLEN MATHESON WELL AT PARRISH FL	05-10-99	3.45
		09-13-99	22.61
273521082150501	ROMP 39 AVON PARK FLORIDAN WELL NEAR PARRISH FL	05-10-99	-21.70
		09-14-99	18.61
273521082150502	ROMP 39 SUWANNEE FLORIDAN WELL NEAR PARRISH FL	05-10-99	-21.71
		09-14-99	18.14
273521082150503	ROMP 39 INTERMEDIATE WELL NEAR PARRISH FL	05-10-99	85.79
		09-14-99	85.67
273536082260301	GRIFFIN DEEP WELL AT PARRISH FL	05-10-99	-7.03
273605082071101	BUSBY DEEP WELL ON DUETTE ROAD AT DUETTE FL	05-10-99	6.73
		09-14-99	38.22
273729082091401	MOODY WELL 801 NEAR DUETTE FL	05-10-99	93.30
		09-14-99	95.65

WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MANATEE COUNTY

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
272333082313801 SH INT. AQUIFER SALTWATER MON W. NR BRADENTON, F(LAT 27 23 33N LONG 082 31 38W)						
NOV 20...	1055	1570	23.5	76	300	904

KEY TO SITE LOCATIONS ON FIGURE 18

PASCO COUNTY

INDEX NUMBER	SITE NUMBER	PAGE NUMBER
1	281023082075701	118
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3	281053082310402	119
4	281101082292502	119
5	281124082353001	120
6	281424082192701	120
7	281448082301801	121
8	281558082264601	121
9	281622082241301	122
10	281636082372001	122
10	281636082372002	123
11	281715082164401	123
11	281715082164402	124
12	281918082264601	124
13	281926082212901	125
14	281949082332001	125
15	282009082373801	126

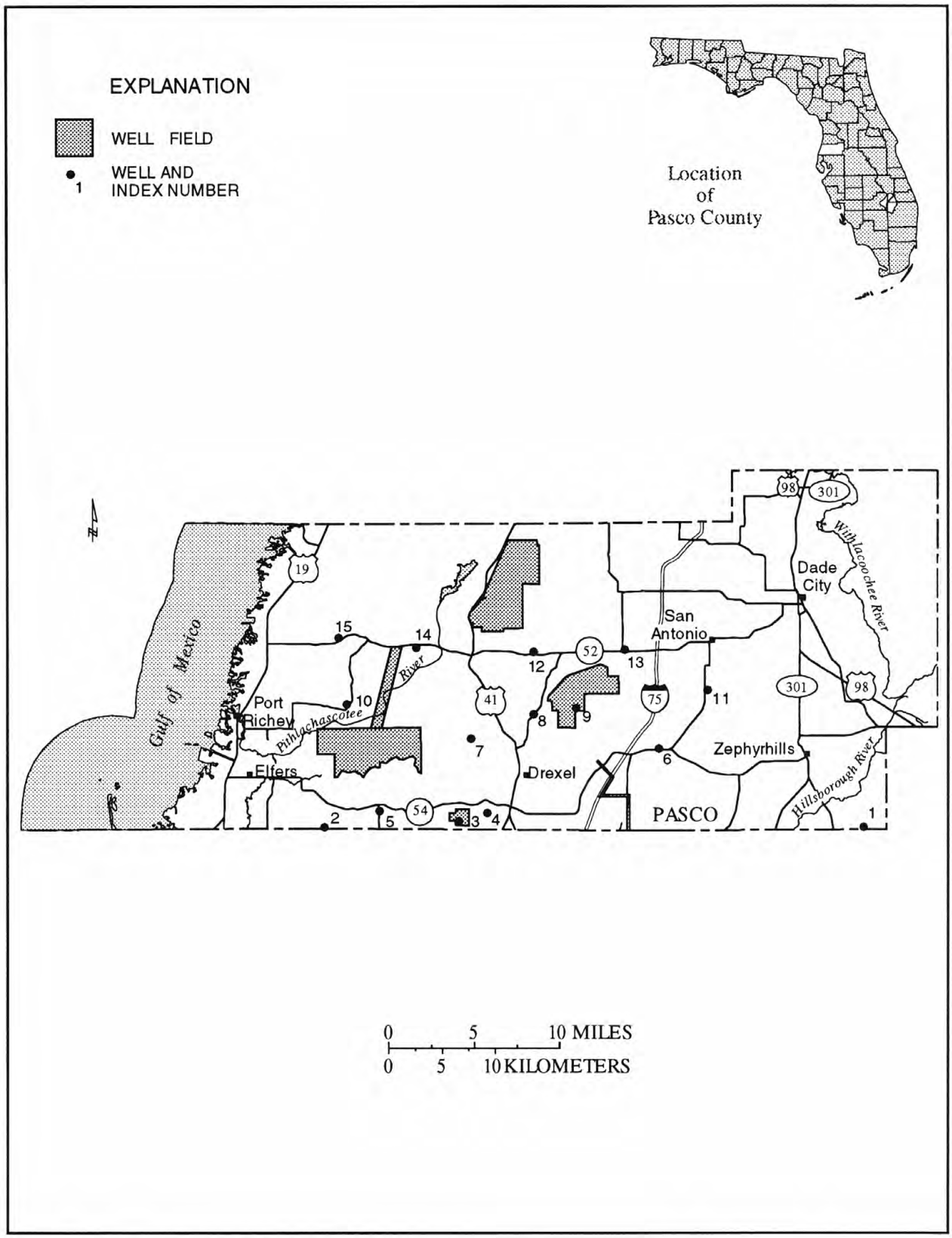

Figure 18.-- Location of wells in Pasco County.

PASCO COUNTY

WELL NUMBER.--281023082075701. Weicht Deep Well near Crystal Springs, FL.

LOCATION.--Lat 28°10'23", long 82°07'57", in $SE^1/_4SW^1/_4$ 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, 85.36 ft NGVD, Dec.19, 1997; lowest measured, 73.58 ft NGVD, June 14, 1990.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)	DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)
OCT			MAY		
05...	1400	84.77	19...	1330	78.17
DEC			JUN		
03...	1600	81.43	29...	1205	81.49
JAN			AUG		
28...	0900	82.11	10...	1408	79.89
MAR					
31...	1315	80.26			

WELL NUMBER.--281025082384601. Eldridge-Wilde Mitchell Well near Tarpon Springs, FL.

LOCATION.--Lat 28°10'25", long 82°38'46", in $SW^1/_4SW^1/_4$ 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, 26.39 ft NGVD, Oct. 2, 1998; lowest, 2.73 ft NGVD, Feb. 25, 1991.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	22.38	18.11	---	18.13	14.56	17.82	---	---	10.96	15.66	14.95	12.67
10	22.28	15.61	14.94	17.24	16.73	15.30	---	11.33	11.12	15.76	14.27	17.72
15	20.53	15.45	16.95	15.66	14.07	13.24	---	11.75	11.72	15.19	16.36	16.77
20	19.58	16.47	18.64	14.95	17.53	---	---	9.91	14.89	14.17	16.93	18.73
25	16.82	16.70	14.47	18.01	12.32	---	---	10.18	17.05	14.71	16.82	18.88
EOM	12.74	16.22	16.39	15.90	12.94	11.69	---	10.06	13.20	12.96	14.64	17.67
MAX	26.39	19.19	---	19.21	18.97	---	---	---	17.05	17.49	18.60	19.35

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 $SW^1/_4NW^1/_4$ 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 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	58.43	57.77	56.42	56.47	56.08	55.01	54.01	52.96	51.94	54.86	52.96	54.35
10	58.28	57.10	56.12	56.92	55.83	54.80	53.76	52.60	51.81	54.26	52.78	54.34
15	58.10	56.94	56.65	56.19	55.55	55.56	53.44	52.45	51.85	54.12	53.41	54.68
20	57.84	56.80	56.15	56.05	55.42	54.90	53.50	52.27	54.79	53.77	53.22	55.66
25	57.56	56.65	55.97	57.07	55.23	54.53	53.11	52.26	55.28	53.46	54.03	56.57
EOM	57.23	56.44	55.97	56.26	55.50	54.20	53.09	52.05	54.71	53.19	53.71	56.31
MAX	58.55	57.77	57.14	57.36	56.23	55.56	54.16	53.09	55.37	54.86	54.10	57.18

CAL YR 1998 MAX 58.99
WTR YR 1999 MAX 58.55

WELL NUMBER.--281101082292502. Harry Matts Shallow Well near Land O'Lakes, FL.

LOCATION.--Lat 28°11'01", long 82°29'25", in $NW^1/_4NE^1/_4$ 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 1998 TO SEPTEMBER 1999

DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)
OCT		
01...	0925	65.37
NOV		
30...	1605	62.68
JAN		
28...	1335	61.70
APR		
01...	1405	60.32
MAY		
18...	1000	DRY
JUN		
30...	1430	59.81
AUG		
02...	1145	DRY

PASCO COUNTY

WELL NUMBER.--281124082353001. Swains Well at Odessa, FL.

LOCATION.--Lat 28°11'24", long 82°35'30", in $SW^1/_4SE^1/_4$ 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 1998 TO SEPTEMBER 1999

DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)	DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)
OCT			MAY		
09...	0945	40.21	10...	0940	33.18
NOV			17...	1000	32.94
30...	0945	36.91	JUL		
JAN			07...	0840	35.42
25...	1335	37.45	AUG		
MAR			09...	0808	34.44
29...	0850	35.13	SEP		
			13...	1135	35.71

WELL NUMBER.--281424082192701. ROMP 85 Avon Park Well near Zephyrhills, FL.

LOCATION.--Lat 28°14'24", long 82°19'27", in $SE^1/_4NE^1/_4$ 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, 83.78 ft NGVD, Feb. 23, 1998; lowest, 70.21 ft NGVD, Jan. 22, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	82.19	80.10	78.46	78.03	78.14	76.42	74.88	73.29	73.04	75.42	74.09	75.02
10	81.75	80.16	77.95	77.92	77.46	76.37	74.68	72.79	73.93	75.57	73.95	75.09
15	81.53	79.53	78.22	78.05	76.79	76.39	73.99	73.25	74.08	75.45	74.19	75.02
20	81.24	78.89	78.24	77.73	76.98	76.02	74.65	72.87	74.48	75.53	74.62	74.63
25	80.69	78.92	78.26	78.00	76.50	75.67	73.74	72.98	74.82	75.07	75.54	74.77
EOM	80.31	78.56	78.15	78.33	76.87	75.08	73.49	72.98	75.17	74.25	75.38	74.62
MAX	82.42	80.18	78.53	78.36	78.33	76.89	75.16	73.44	75.17	75.64	75.65	75.30

CAL YR 1998 MAX 83.78
WTR YR 1999 MAX 82.42

PASCO COUNTY

WELL NUMBER.--281448082301801. Bexley Well 2 near Drexel, FL.

LOCATION.--Lat 28°14'48", long 82°30'18", in $SE^1/_4SE^1/_4$ sec.4, T.26 S., R.18 E., Hydrologic Unit 03100207, 2.0 mi west of U. S. Highway 41, and 2.8 mi west of Drexel. Owner: Bud Bexley.

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

WELL CHARACTERISTICS.--Drilled, unused irrigation, artesian well, diameter 8 in., depth 743 ft, cased to 44 ft.

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

DATUM.--Land-surface datum is 67.43 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.12 ft above land-surface datum.

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

PERIOD OF RECORD.--November 1969 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, 64.07 ft NGVD, Sept. 9, 1988; lowest, 55.67 ft NGVD, July 15, 1973.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	62.98	61.75	60.73	60.87	61.04	60.12	59.50	58.67	57.81	---	58.51	59.37
10	62.61	61.49	60.62	61.04	60.87	60.03	59.32	58.23	57.77	---	58.34	59.66
15	62.22	61.28	60.80	61.03	60.68	60.26	58.97	58.11	57.69	59.23	58.60	60.02
20	62.03	61.11	60.59	60.81	60.51	60.32	59.09	57.93	---	59.13	59.01	59.99
25	61.71	61.05	60.50	61.37	60.29	60.05	58.65	57.94	---	58.90	59.49	60.19
EOM	61.41	60.85	60.49	61.39	60.27	59.68	58.69	57.86	---	58.70	59.27	60.58
MAX	63.36	61.75	60.85	61.58	61.30	60.41	59.65	58.69	---	---	59.51	60.58

WELL NUMBER.--281558082264601. Pasco Well 13 near Drexel, FL.

LOCATION.--Lat 28°15'58", long 82°26'46", in $SE^1/_4NW^1/_4$ 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, 69.12 ft NGVD, June 1, 1994.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	74.26	72.82	71.93	71.68	71.89	71.20	70.91	70.27	70.15	71.84	70.77	71.93
10	73.86	72.64	71.83	71.64	71.74	71.15	70.76	70.18	70.38	71.75	70.67	71.82
15	73.54	72.44	71.84	71.59	71.51	71.15	70.56	70.23	70.59	71.55	70.58	71.93
20	73.30	72.29	71.71	71.43	71.45	71.12	70.54	70.15	71.39	71.36	70.84	71.81
25	73.03	72.19	71.64	71.86	71.25	71.08	70.47	70.11	71.78	71.13	71.84	71.86
EOM	72.80	72.06	71.56	71.98	71.29	71.01	70.35	70.05	71.70	70.98	72.27	72.25
MAX	---	72.82	72.03	72.02	71.97	71.30	71.03	70.34	71.78	71.84	72.47	72.25

PASCO COUNTY

WELL NUMBER.--281622082241301. Cypress Creek Deep Well 3 near Ehren, FL.

LOCATION.--Lat 28°16'22", long 82°24'13", in $NE^1/_4NE^1/_4$ 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 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	60.29	58.99	57.62	54.09	56.83	56.40	51.29	48.17	47.45	49.64	48.86	49.78
10	59.68	58.79	56.65	55.37	57.01	55.87	50.94	47.40	46.47	50.20	48.82	50.18
15	59.23	57.74	56.37	54.31	57.50	54.62	50.06	47.19	46.48	49.88	48.66	50.19
20	59.61	58.07	56.28	54.84	57.42	53.40	49.15	46.68	48.18	50.13	48.52	50.40
25	58.15	56.95	55.45	55.88	56.10	52.95	50.22	46.70	47.43	49.56	48.78	50.68
EOM	59.43	57.42	54.38	56.91	54.77	51.84	49.04	47.20	48.74	49.77	49.57	50.71
MAX	60.46	58.99	57.62	56.91	57.50	56.46	52.27	49.19	48.74	51.34	49.71	51.15

CAL YR 1998 MAX 62.79
WTR YR 1999 MAX 60.46

WELL NUMBER.--281636082372001. Moon Lake Deep Well near New Port Richey, FL.

LOCATION.--Lat 28°16'36", long 82°37'20", in $NW^1/_4SE^1/_4$ sec.29, T.25 S., R.17 E., Hydrologic Unit 03100207, 20 ft west of State Highway 587, and 5.9 mi east of New Port Richey. 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 115 ft, cased to 65 ft.

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

DATUM.--Land-surface datum is 38.87 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.30 ft above land-surface datum.

PERIOD OF RECORD.--April 1966 to September 1981; October 1981 to April 1983 (periodic); May 1983 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, 34.38 ft NGVD, Mar. 20, 1998; lowest, 27.21 ft NGVD, Sept. 24, 1997.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	32.29	31.24	30.45	30.22	30.37	29.79	29.35	28.66	---	29.95	29.96	29.73
10	32.03	30.99	30.34	30.34	30.22	29.70	29.24	28.53	---	29.74	29.84	30.36
15	31.77	30.88	30.26	30.31	30.07	29.85	29.08	28.43	---	29.92	29.82	30.21
20	31.56	30.78	30.16	30.16	29.98	29.75	29.04	---	---	30.50	29.89	30.14
25	31.36	30.64	30.12	30.59	29.90	29.57	28.88	---	---	30.49	30.39	30.14
EOM	31.16	30.52	30.08	30.49	29.88	29.46	28.81	---	29.88	30.29	30.09	30.21
MAX	32.56	31.24	30.51	30.61	30.47	29.87	29.45	---	---	30.56	30.39	30.38

CAL YR 1998 MAX 34.38

PASCO COUNTY

WELL NUMBER.--281636082372002. Moon Lake Shallow Well near New Port Richey, FL.

LOCATION.--Lat 28°16'36", long 82°37'20", in $NW^1/_4SE^1/_4$ sec.29, T.25 S., R.17 E., Hydrologic Unit 03100207, 20 ft west of State Highway 587, and 5.9 mi east of New Port Richey. 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 25 ft, cased to 22 ft.

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

DATUM.--Land-surface datum is 38.87 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of flange, 2.80 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, 35.98 ft NGVD, Mar. 21, 22, 23, 1998; lowest, 27.88 ft NGVD, Sept. 24, 1997.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	33.60	32.51	31.50	30.71	30.96	30.51	30.22	---	29.05	30.42	31.21	31.11
10	33.53	32.32	31.36	30.65	30.93	30.44	---	---	28.94	---	31.09	31.17
15	33.39	32.16	31.21	---	30.85	30.40	29.91	---	28.84	---	30.96	31.22
20	33.19	31.99	31.05	---	30.75	30.37	---	29.36	28.88	30.67	30.83	31.16
25	32.99	31.82	30.94	30.66	30.67	30.31	---	29.27	29.65	31.04	30.89	31.11
EOM	32.73	31.66	30.80	30.91	30.60	30.25	---	29.15	30.19	31.22	31.14	---
MAX	33.60	32.68	31.63	---	30.96	30.59	---	---	30.19	---	---	---

CAL YR 1998 MAX 35.98

WELL NUMBER.--281715082164401. State Highway 577 Well near San Antonio, FL.

LOCATION.--Lat 28°17'15", long 82°16'44", in $NE^1/_4NW^1/_4$ 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, 98.51 ft NGVD, Mar. 21, 1998; lowest, 76.97 ft NGVD, May 28, 1994.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	93.99	92.53	89.83	89.39	88.83	87.16	85.13	82.51	81.20	83.72	83.65	82.83
10	93.97	92.40	89.59	87.99	88.93	86.45	83.71	82.24	81.41	84.04	83.54	83.24
15	94.00	92.19	89.75	88.76	88.57	86.87	83.33	82.01	81.78	84.28	83.46	83.48
20	93.99	91.37	89.91	88.73	87.30	86.63	83.61	81.12	82.37	84.38	83.04	82.90
25	93.62	90.97	89.56	88.74	86.96	86.08	83.28	81.30	82.67	84.46	83.73	83.00
EOM	92.87	90.81	89.69	89.18	87.27	85.23	82.54	81.40	83.34	83.94	83.84	83.12
MAX	94.06	92.92	90.77	89.79	89.33	87.37	85.28	83.00	83.34	84.46	84.06	83.75

CAL YR 1998 MAX 98.51
WTR YR 1999 MAX 94.06

PASCO COUNTY

WELL NUMBER.--281715082164402. State Highway 577 Shallow Well near San Antonio, FL.

LOCATION.--Lat 28°17'15", long 82°16'44", in $NE^1/_4NW^1/_4$ 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 coupling, 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, 126.78 ft NGVD, Apr. 7, 1998; well observed dry Jan. 8, Mar. 5, May 1, 1991, Apr. 19, May 30, 1994.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)	DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)
OCT			MAY		
01...	1000	123.99	19...	1020	114.57
DEC			JUL		
01...	1145	122.51	07...	1133	114.13
JAN			AUG		
26...	1550	120.99	09...	1505	114.79
APR					
02...	1000	118.30			

WELL NUMBER.--281918082264601. State Highway 52 Well near Gowers Corner, FL.

LOCATION.--Lat 28°19'18", long 82°26'46", in $NE^1/_4SW^1/_4$ 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, 64.44 ft NGVD, June 4, 5, 14, 15, 1994.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	75.68	74.94	73.70	73.60	73.56	72.59	71.97	70.95	70.81	72.91	71.14	71.70
10	75.25	74.37	73.55	73.77	73.34	72.52	71.81	71.03	70.83	72.50	71.19	71.59
15	74.99	74.23	73.76	73.47	73.14	73.02	71.63	71.25	70.79	72.10	71.02	71.39
20	74.80	74.08	73.47	73.26	72.97	72.68	71.53	70.99	72.60	71.76	71.25	71.33
25	74.57	74.01	73.38	74.17	72.85	72.39	71.33	71.10	72.43	71.49	72.07	71.38
EOM	74.38	73.81	73.28	73.79	72.77	72.15	71.15	70.85	72.71	71.46	72.15	71.76
MAX	76.15	74.94	73.88	74.17	73.76	73.02	72.13	71.34	72.71	73.01	72.49	72.05

CAL YR 1998 MAX 77.52
WTR YR 1999 MAX 76.15

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 $NE^1/_4SE^1/_4$ 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, 59.12 ft NGVD, July 14, 1994.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	76.04	74.60	72.81	71.96	71.97	70.74	69.38	67.69	66.61	69.71	68.22	68.83
10	75.85	74.19	72.43	72.06	71.74	70.54	69.14	67.38	66.67	69.91	67.95	68.88
15	75.33	74.02	72.46	72.06	71.52	70.43	68.78	67.08	66.68	69.86	67.81	68.66
20	74.94	73.65	72.21	71.78	71.28	70.24	68.39	66.89	67.51	69.54	67.77	68.35
25	74.76	73.58	72.26	71.93	71.35	---	68.42	66.89	68.42	69.27	68.43	68.31
EOM	74.71	73.07	72.14	72.17	71.28	69.62	67.98	66.73	68.94	68.72	68.80	68.77
MAX	76.28	74.60	73.05	72.26	72.23	---	69.59	67.91	68.94	69.92	68.80	68.94

WELL NUMBER.--281949082332001. State Highway 52 Deep Well near Fivay Junction, FL.

LOCATION.--Lat 28°19'49", long 82°33'20", in $NW^1/_4NE^1/_4$ 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, 49.43 ft NGVD, June 22, 1997.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	54.46	53.47	52.88	52.70	52.66	52.01	51.52	50.76	50.61	51.38	51.35	52.22
10	54.12	53.29	52.78	52.82	52.50	51.94	51.40	50.61	50.59	51.14	51.27	52.14
15	53.97	53.17	52.72	52.72	52.37	52.04	51.25	50.50	50.39	51.09	51.52	52.06
20	53.77	53.06	52.62	52.58	52.26	51.85	51.18	50.32	51.46	51.98	52.30	51.94
25	53.57	53.11	52.57	53.03	52.18	51.76	51.03	51.11	51.63	51.91	52.90	51.90
EOM	53.35	52.97	52.51	52.83	52.13	51.62	50.89	50.90	51.54	51.60	52.48	52.03
MAX	55.04	53.47	52.95	53.03	52.80	52.10	51.60	51.13	51.63	51.98	52.90	52.42

CAL YR 1998 MAX 55.84
WTR YR 1999 MAX 55.04

PASCO COUNTY

WELL NUMBER.--282009082373801. State Highway 52 Deep Well near Hudson, FL.

LOCATION.--Lat 28°20'09", long 82°37'38", in $NE^1/_4SW^1/_4$ 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 1998 TO SEPTEMBER 1999

DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)	DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)
OCT			MAY		
08...	1405	27.57	12...	1424	23.41
DEC			24...	1250	22.97
04...	1355	25.68	JUL		
FEB			08...	1253	23.47
01...	0910	25.46	AUG		
MAR			12...	1450	23.16
30...	1125	24.33	SEP		
			13...	1516	23.17

PASCO COUNTY

STATION NUMBER	STATION NAME	DATE	ELEV-ATION ABOVE NGVD (FEET) (72020)
281023082450701	COASTAL PASCO DEEP WELL 13 NEAR NEW PORT RICHEY FL	05-10-99	4.19
		09-13-99	4.74
281035082305701	ST PETE WELL 42 NEAR LAND O LAKES FL	05-10-99	32.41
		09-13-99	38.41
281037082071801	J O ALSTON WELL NEAR CRYSTAL SPRINGS FL	05-13-99	83.54
		09-16-99	83.74
281046082470801	FPC WELL NO 1 NEAR TARPON SPRINGS FL	05-10-99	1.60
		09-13-99	1.46
281103082322601	DOYLES RANCH DEEP NEAR ODESSA FL	05-14-99	44.86
281124082274101	WINTER QUARTERS ROAD WELL NEAR CITRUS PARK FL	05-11-99	57.62
		09-16-99	60.06
281143082304702	STATE HWY 54 DEEP NEAR LAND O LAKES FL	05-10-99	38.63
		09-13-99	43.25
281155082235401	KING DEEP NEAR LUTZ FL	05-13-99	51.22
281321082294201	BEXLEY DEEP WELL 225 NEAR DREXEL FL	05-11-99	56.68
		09-15-99	58.61
281424082192702	ROMP 85 FLORIDAN WELL NEAR ZEPHYRHILLS FL	05-13-99	73.12
		09-16-99	75.43
281435082260101	ROMP 84 FLORIDAN WELL NEAR DREXEL FL	05-11-99	60.62
		09-16-99	61.43
281437082271401	NININGER DEEP WELL 857 AT DREXEL FL	05-11-99	69.43
		09-16-99	70.88
281446082354101	STARKEY WELL MW-1 NEAR NEW PORT RICHEY FL	05-06-99	20.15
		09-10-99	28.23
281451082380701	STARKEY DEEP 10 NEAR ODESSA FL	05-06-99	26.08
		09-10-99	27.25
281504082104801	ROMP 86 AVON PARK DEEP WELL NEAR ZEPHYRHILLS FL	05-13-99	70.68
		09-16-99	69.12
281535082241301	CYPRESS CREEK DEEP TMR-5 NEAR SAN ANTONIO FL	09-07-99	52.34
281548082220601	815 222 FL	05-13-99	60.01
		09-16-99	62.81
281631082261601	CATCHING'S D. WELL 849 NR DREXEL FL	05-11-99	64.79
		09-16-99	68.50
281642082440201	COASTAL PASCO DEEP WELL 04 AT PORT RICHEY FL	05-10-99	1.10
		09-13-99	.73
281650082244501	CYPRESS CREEK DEEP WELL TMR-4 NEAR SAN ANTONIO FL	05-03-99	50.75
		09-07-99	51.51

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1998 TO SEPTEMBER 1999

PASCO COUNTY

STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (FEET) (72020)
281654082201601	CARR DEEP WELL 846 NEAR SAN ANTONIO FL	05-13-99	72.80
		09-16-99	74.80
281745082255001	STARLING DEEP WELL 809 NEAR DREXEL FL	05-14-99	65.59
		09-11-99	65.92
281917082420901	ROMP TR 17-1 DEEP WELL AT BAYONET POINT FL	05-10-99	3.82
		09-13-99	4.16
281922082403901	ROMP TR 17-3 DEEP WELL NEAR BAYONET POINT FL	05-10-99	3.16
		09-13-99	2.96
281923082252201	ROMP 93 DEEP NEAR DARBY FL	05-12-99	69.63
		09-15-99	69.65
281948082415301	WITHLACOOCHEE ELEC 01 AT BAYONET POINT FL	05-10-99	1.29
		09-13-99	2.23
281954082413401	PONDEROSA DEV DEEP WELL AT BAYONET POINT FL	05-14-99	2.19
		09-13-99	2.75
282044082312401	H. KENT GROVE WELL NEAR GOWERS CORNER FL	05-12-99	59.94
		09-15-99	60.97
282148082281801	CROSSBAR A-1 DEEP NEAR LOYCE FL	05-03-99	58.23
		09-07-99	55.34
282229082405801	COASTAL PASCO DEEP WELL 02 AT HUDSON FL	05-12-99	1.93
		09-14-99	1.46
282238082362101	JUSTICE DEEP NEAR HUDSON FL	05-12-99	22.55
		09-14-99	22.58
282434082200301	AIRSTREAM TRL PARK DEEP WELL 833 NEAR DARBY FL	05-13-99	74.28
		09-15-99	70.42
282434082283601	D. A. SUTYAK WELL NEAR MASARYKTOWN FL	05-11-99	33.67
		09-15-99	30.03
282516082365501	LORE DEEP NEAR ARIPEKA FL	05-12-99	13.20
		09-14-99	12.83
282534082222802	BARTHLE RANCH FLORIDAN WELL NEAR MASARYKTOWN FL	05-13-99	55.40
		09-15-99	52.02
282540082275701	MASARYKTOWN DEEP NEAR MASARYKTOWN FL	05-11-99	34.03
		09-14-99	30.97
282552082314201	GOOCH DEEP WELL NEAR MASARYKTOWN FL	05-12-99	24.84

KEY TO SITE LOCATIONS ON FIGURE 19

PINELLAS COUNTY

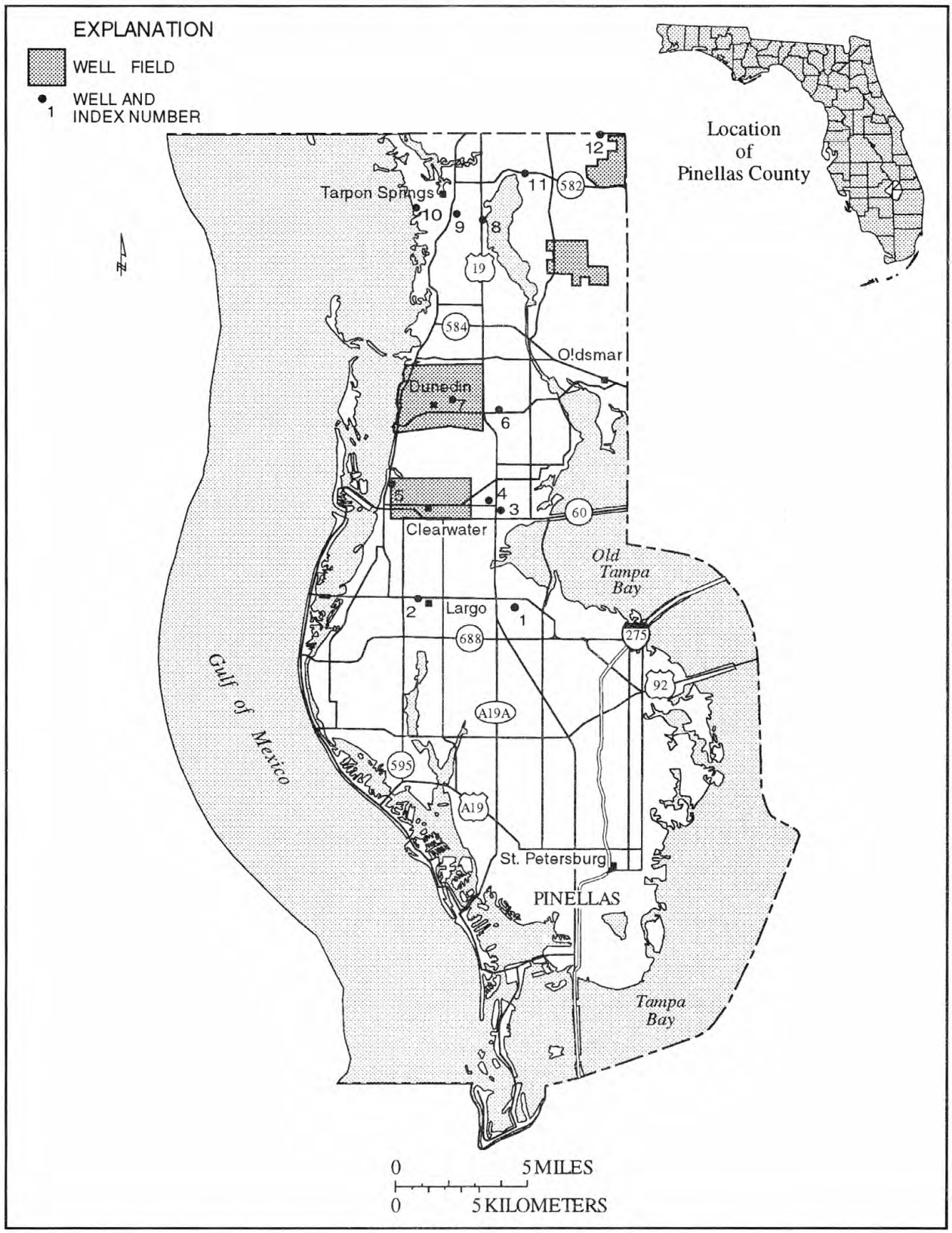

Figure 19.-- Location of wells in Pinellas County.

PINELLAS COUNTY

WELL NUMBER.--275430082431401. ROMP TR 13-2A Lower Suwannee Well near Largo, FL.

LOCATION.--Lat 27°54'30", long 82°43'14", in $SW^1/_4SE^1/_4$ 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 shelter floor, 3.26 ft above land-surface datum.

PERIOD OF RECORD.--April 1988 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.36 ft NGVD, Jan. 28, 1998; lowest measured, 4.65 ft below NGVD, June 20, 1988.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)	DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)
OCT			MAY		
06...	1455	-.06	12...	0815	-2.05
DEC			JUL		
08...	1315	-1.37	06...	1145	-.30
FEB			AUG		
02...	1016	-.37	05...	1228	-.54
APR			SEP		
07...	1105	-2.19	15...	0818	.04

WELL NUMBER.--275430082431402. ROMP TR 13-2A Upper Suwannee Well near Largo, FL.

LOCATION.--Lat 27°54'30", long 82°43'14", in $SW^1/_4SE^1/_4$ 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, 7.83 ft NGVD, Oct. 3, 1994; lowest measured, 3.46 ft NGVD, June 20, 1988.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)	DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)
OCT			MAY		
06...	1458	6.05	12...	0823	3.87
DEC			JUL		
08...	1318	4.70	06...	1148	5.64
FEB			AUG		
02...	1023	5.64	05...	1226	5.43
APR			SEP		
07...	1102	3.71	15...	0822	5.99

PINELLAS COUNTY

WELL NUMBER.--275430082431403. ROMP TR 13-2 NRSD Well near Largo, FL.

LOCATION.--Lat 27°54'30", long 82°43'14", in $SW^1/_4SE^1/_4$ 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, 11.39 ft NGVD, June 13, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.31	14.55	12.88	13.51	13.83	12.69	12.34	11.92	11.53	16.10	14.28	14.11
10	14.46	13.88	12.74	13.62	13.48	12.62	12.25	11.81	11.45	15.50	14.27	15.93
15	14.06	13.59	13.29	13.34	13.19	12.94	12.16	11.75	11.47	15.86	15.69	15.75
20	13.82	13.35	12.97	13.21	13.01	12.74	12.21	11.63	14.11	14.28	15.85	16.46
25	13.59	13.18	12.79	13.93	12.84	12.53	12.05	11.90	14.38	14.14	15.93	15.52
EOM	13.36	13.00	13.02	13.72	12.85	12.42	11.98	11.60	15.77	14.06	14.54	15.80
MAX	16.26	14.55	13.35	13.98	14.05	12.94	12.40	12.01	15.77	16.32	16.61	16.54

CAL YR 1998 MAX 16.70
WTR YR 1999 MAX 16.61

WELL NUMBER.--275458082464002. ROMP TR 13-1A Suwannee Well at Largo, FL.

LOCATION.--Lat 27°54'58", long 82°46'40", in $NW^1/_4SW^1/_4$ 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, 10.48 ft NGVD, Jan. 27, 1998; lowest measured, 4.45 ft NGVD, June 20, 1988.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)	DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)
OCT			MAY		
06...	1425	7.64	12...	1115	5.35
DEC			JUL		
08...	1244	6.12	06...	1221	7.14
FEB			AUG		
02...	0933	7.18	05...	1156	6.81
APR			SEP		
07...	1030	5.08	15...	0920	7.74

PINELLAS COUNTY

WELL NUMBER.--275458082464003. ROMP TR 13-1A Tampa Well at Largo, FL.

LOCATION.--Lat 27°54'58", long 82°46'40", in $NW^1/_4SW^1/_4$ 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, 9.67 ft NGVD, Oct. 3, 1994; lowest measured, 4.45 ft NGVD, June 20, 1988.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)	DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)
OCT			MAY		
06...	1429	7.82	12...	1120	5.55
DEC			JUL		
08...	1248	6.29	06...	1217	7.35
FEB			AUG		
02...	0929	7.37	05...	1200	7.02
APR			SEP		
07...	1033	5.28	15...	0910	7.96

WELL NUMBER.--275458082464004. ROMP TR 13-1A NRSD Well at Largo, FL.

LOCATION.--Lat 27°54'58", long 82°46'40", in $NW^1/_4SW^1/_4$ 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, May 29, 30, June 1, 1994.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	3.46	3.41	2.96	3.20	3.14	3.03	3.06	2.97	3.00	3.84	2.98	3.14
10	3.36	3.09	2.94	3.29	3.09	3.03	3.04	2.97	2.96	3.36	2.99	3.69
15	3.28	3.04	3.06	3.09	3.05	3.25	3.00	2.97	2.95	3.96	3.27	3.37
20	3.19	3.01	3.00	3.09	3.05	3.10	3.02	2.89	4.85	3.26	3.46	3.91
25	3.11	2.99	3.00	3.27	3.04	3.07	3.02	3.01	3.43	3.13	3.76	3.35
EOM	3.04	2.96	3.08	3.15	3.41	3.06	3.35	2.86	3.46	3.02	3.51	3.39
MAX	3.70	3.51	3.69	3.81	3.41	3.57	3.35	3.20	5.33	5.74	4.75	4.96

CAL YR 1998 MAX 6.62
WTR YR 1999 MAX 5.74

PINELLAS COUNTY

WELL NUMBER.--275753082433701. Clearwater-Dunedin Deep Well 27 near Clearwater, FL.

LOCATION.--Lat 27°57'53", long 82°43'37", in $SE^1/_4NW^1/_4$ 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, 3.91 ft NGVD, Oct. 3, 1994; well observed dry June 5, July 2, 1998; May 12, July 6, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)	DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)
OCT			MAY		
06...	1240	2.46	12...	1240	DRY
DEC			JUL		
08...	1512	1.36	06...	1115	DRY
FEB			AUG		
02...	1056	2.15	05...	1015	2.27
APR			SEP		
07...	0855	.77	14...	1145	2.55

WELL NUMBER.--275815082440401. Pinellas Well 665 near Clearwater, FL.

LOCATION.--Lat 27°58'15", long 82°44'04", in $SW^1/_4SE^1/_4$ 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 33.64 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 2.97 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 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.96	9.74	9.05	9.23	9.56	9.15	8.54	8.21	8.04	9.74	9.72	9.93
10	10.67	9.58	8.89	9.42	9.46	8.86	8.45	8.34	7.98	10.07	9.93	10.73
15	10.07	9.48	8.98	9.40	9.09	9.08	8.43	8.32	8.32	10.12	10.01	10.42
20	9.99	9.43	8.90	9.25	9.39	8.94	8.38	7.87	9.04	10.20	10.16	10.73
25	9.44	9.20	9.13	9.49	9.16	8.86	8.07	7.94	9.28	10.08	10.58	10.78
EOM	9.62	9.08	9.10	9.46	9.23	8.49	8.45	8.05	9.31	9.88	10.49	10.88
MAX	11.48	9.74	9.27	9.61	9.61	9.23	8.68	8.40	9.36	10.26	10.63	10.92

CAL YR 1998 MAX 12.42
WTR YR 1999 MAX 11.48

PINELLAS COUNTY

WELL NUMBER.--275843082474201. Garden Street Triangle Well at Clearwater, FL.

LOCATION.--Lat 27°58'43", long 82°47'42", in $NE^1/_4NE^1/_4$ 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 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.67	6.08	5.56	5.47	5.93	5.39	5.05	5.08	4.84	5.92	5.95	6.29
10	6.53	5.85	5.19	5.72	5.67	5.36	5.04	5.16	4.91	6.26	6.27	6.91
15	6.04	5.83	5.24	5.86	5.46	5.73	5.35	5.12	5.04	6.22	6.30	6.47
20	6.10	5.72	5.52	5.70	5.92	5.46	4.87	4.91	5.51	6.26	6.46	7.32
25	5.55	5.47	5.55	5.56	5.56	5.31	4.80	4.84	5.66	6.14	6.69	6.95
EOM	5.94	5.44	5.63	5.87	5.76	5.19	5.18	4.79	5.66	6.08	6.53	6.92
MAX	7.21	6.14	5.97	6.37	6.17	5.80	5.37	5.44	5.73	6.32	6.74	7.44

CAL YR 1998 MAX 7.82
WTR YR 1999 MAX 7.44

WELL NUMBER.--280118082434501. ROMP TR 14-3 Suwannee Well near Dunedin, FL.

LOCATION.--Lat 28°01'18", long 82°43'45", in $SW^1/_4NW^1/_4$ 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 casing, 2.26 ft above land-surface datum.

PERIOD OF RECORD.--April 1988 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.72 ft NGVD, Aug. 28, 1995; lowest measured, 5.51 ft NGVD, June 17, 1988.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)	DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)
OCT			MAY		
02...	1531	9.54	11...	0837	5.91
DEC			JUL		
08...	1103	7.08	06...	0949	7.53
FEB			AUG		
01...	1555	7.93	04...	1310	7.77
MAR			19...	1342	8.44
31...	1047	6.20	SEP		
APR			14...	0817	7.55
15...	1000	6.80			

PINELLAS COUNTY

WELL NUMBER.--280118082434502. ROMP TR 14-3 Tampa Well near Dunedin, FL.

LOCATION.--Lat 28°01'18", long 82°43'45", in $SW^1/_4NW^1/_4$ 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, 2.40 ft above land-surface datum.

PERIOD OF RECORD.--October 1988 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.69 ft NGVD, Aug. 28, 1995; lowest measured, 5.25 ft NGVD, May 11, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)	DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)
OCT			MAY		
02...	1524	9.51	11...	0840	5.25
DEC			JUL		
08...	1111	6.84	06...	0906	7.10
18...	1250	7.35	AUG		
FEB			04...	1316	7.69
01...	1600	7.77	19...	1322	8.39
MAR			SEP		
31...	1034	5.80	14...	0805	7.10
APR					
15...	0954	6.54			

WELL NUMBER.--280118082434503. ROMP TR 14-3 NRSD Well near Dunedin, FL.

LOCATION.--Lat 28°01'18", long 82°43'45", in $SW^1/_4NW^1/_4$ 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 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	92.08	---	---	---	90.56	89.97	---	89.77	89.72	92.11	92.14	91.55
10	91.76	---	90.44	---	90.38	89.90	---	89.71	89.65	93.53	92.25	92.52
15	91.49	---	90.40	---	90.23	90.11	89.78	89.64	89.93	93.61	92.71	91.95
20	91.28	---	---	---	90.13	90.13	89.96	89.60	93.61	93.88	91.91	92.51
25	91.10	---	---	---	90.06	90.06	89.91	89.55	92.73	92.70	92.60	92.05
EOM	90.92	---	---	---	90.02	89.89	89.82	89.69	92.17	92.05	91.83	91.83
MAX	---	---	---	---	90.64	90.15	---	89.81	93.61	94.68	92.90	92.76

PINELLAS COUNTY

WELL NUMBER.--280132082452801. ROMP TR 14-2 Ocala Well near Dunedin, FL.

LOCATION.--Lat 28°01'32", long 82°45'28", in $SE^1/_4NW^1/_4$ 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, 4.05 ft NGVD, Aug. 28, 1995; lowest measured, 1.21 ft NGVD, Mar. 18, 1997.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)	DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)
OCT			MAY		
02...	1435	3.72	11...	1008	1.38
DEC			JUL		
08...	1040	1.92	02...	1445	2.34
FEB			AUG		
01...	1446	2.44	04...	1238	2.40
APR			SEP		
06...	1425	1.40	14...	0944	2.77

WELL NUMBER.--280132082452802. ROMP TR 14-2 Tampa Well near Dunedin, FL.

LOCATION.--Lat 28°01'32", long 82°45'28", in $SE^1/_4NW^1/_4$ 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, 6.93 ft NGVD, Oct. 2, 1998; lowest measured, 3.48 ft NGVD, June 17, 1988.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)	DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)
OCT			MAY		
02...	1425	6.93	11...	1011	4.16
DEC			JUL		
08...	1035	5.02	02...	1440	5.05
FEB			AUG		
01...	1440	5.52	04...	1242	5.40
APR			SEP		
06...	1427	4.36	14...	0948	5.77

PINELLAS COUNTY

WELL NUMBER.--280132082452803. ROMP TR 14-2 NRSD Well near Dunedin, FL.

LOCATION.--Lat 28°01'32", long 82°45'28", in $SE^1/_4NW^1/_4$ 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, 46.32 ft NGVD, June 13, 14, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	49.98	49.31	48.42	48.29	48.13	47.77	47.62	47.13	46.44	48.03	49.31	49.61
10	49.70	49.02	48.32	48.23	48.05	47.72	47.52	47.03	46.38	48.35	49.73	50.43
15	49.57	48.83	48.34	48.13	47.98	47.93	47.41	46.92	46.34	49.26	49.83	49.84
20	49.31	48.73	48.23	48.09	47.92	47.91	47.38	46.80	47.82	50.75	49.35	50.32
25	49.13	48.64	48.18	48.33	47.87	47.87	47.29	46.68	48.12	49.88	50.87	50.07
EOM	48.94	48.53	48.16	48.27	47.84	47.69	47.20	46.53	48.14	49.40	50.00	49.89
MAX	50.29	49.31	48.51	48.34	48.23	47.96	47.67	47.19	48.14	51.24	51.86	50.78

CAL YR 1998 MAX 53.67
WTR YR 1999 MAX 51.86

WELL NUMBER.--280734082442101. ROMP TR 15-3 Deep Well near Tarpon Springs, FL.

LOCATION.--Lat 28°07'34", long 82°44'21", in $NW^1/_4NE^1/_4$ 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 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.19	4.92	4.73	4.22	4.61	4.36	4.24	4.63	4.08	4.73	4.90	---
10	5.04	4.71	4.20	4.12	4.51	4.34	4.22	4.12	4.27	4.97	5.21	---
15	5.00	4.78	4.35	4.77	4.68	4.76	5.05	4.50	4.51	4.96	5.11	---
20	4.94	4.69	4.73	4.62	4.62	4.61	4.51	4.37	4.62	4.79	---	---
25	4.63	4.49	4.34	4.34	4.53	4.24	4.20	4.12	4.87	4.90	---	---
EOM	4.85	4.56	4.49	4.91	4.73	4.41	4.50	4.36	4.93	4.94	---	---
MAX	5.77	5.02	4.89	5.87	5.20	4.96	5.05	4.67	4.96	5.05	---	---

CAL YR 1998 MAX 5.99

PINELLAS COUNTY

WELL NUMBER.--280747082452001. ROMP TR 15-2 Deep Well near Tarpon Springs, FL.

LOCATION.--Lat 28°07'47", long 82°45'20", in $NE^1/_4NW^1/_4$ 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 1998 TO SEPTEMBER 1999

DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)	DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)
OCT			MAY		
02...	1335	4.05	10...	1310	2.84
DEC			JUL		
08...	0940	2.45	02...	1325	3.58
FEB			AUG		
01...	1347	2.98	04...	1145	3.28
APR			SEP		
06...	1325	2.65	13...	1400	3.77

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 $NW^1/_4SW^1/_4$ 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 1998 TO SEPTEMBER 1999

DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)	DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)
OCT			MAY		
02...	1345	3.52	10...	1330	2.15
DEC			JUL		
08...	0955	1.88	02...	1340	2.84
FEB			AUG		
01...	1400	2.48	04...	1205	2.50
APR			SEP		
06...	1337	2.11	13...	1420	3.15

WELL NUMBER.--280907082424801. Tarpon Road Deep Well near Tarpon Springs, FL.

LOCATION.--Lat 28°09'07", long 82°42'48", in $SW^1/_4NW^1/_4$ 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 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.65	10.63	9.79	9.94	10.03	9.46	9.29	8.89	8.69	10.04	9.78	9.74
10	11.12	10.33	9.79	10.12	9.86	9.45	8.99	8.93	8.73	9.95	9.96	10.53
15	11.03	10.23	9.97	10.01	9.66	9.83	9.20	8.71	8.85	10.10	10.44	10.08
20	10.89	10.24	9.67	9.75	9.67	9.54	9.20	8.61	9.86	10.28	10.47	10.73
25	10.32	10.04	9.96	10.19	9.37	9.54	8.55	8.62	10.18	10.04	10.42	10.66
EOM	10.28	10.08	9.97	9.97	9.43	9.08	9.20	8.72	9.91	10.00	9.69	10.41
MAX	11.93	10.63	10.07	10.31	10.16	9.83	9.37	9.16	10.18	10.31	10.56	10.87

WTR YR 1999 MAX 11.93

PINELLAS COUNTY

WELL NUMBER.--280907082424802. Tarpon Road Shallow Well near Tarpon Springs, FL.

LOCATION.--Lat 28°09'07", long 82°42'48", in $SW^1/_4NW^1/_4$ 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 1998 TO SEPTEMBER 1999

DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)	DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)
OCT			MAY		
02...	1205	12.90	10...	1146	11.79
DEC			JUN		
01...	1238	12.82	29...	1425	11.45
JAN			JUL		
26...	1247	12.58	30...	1122	11.48
APR			SEP		
01...	1115	12.06	13...	1259	11.51

WELL NUMBER.--281022082400201. Eldridge-Wilde Deep Well N3 near Tarpon Springs, FL.

LOCATION.--Lat 28°10'22", long 82°40'02", in $NW^1/_4NW^1/_4$ sec.1, T.27 S., R.16 E., Hydrologic Unit 03100207, 2.4 mi northeast of intersection State Highway 582 and East Lake Road, and 4.8 mi east 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 350 ft, cased to 100 ft.

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

DATUM.--Land-surface datum is 28.78 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 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, 23.47 ft NGVD, Apr. 3, 1987; lowest, 5.51 ft NGVD, May 29, 1994.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	20.22	16.34	14.91	16.85	15.92	15.00	11.28	11.10	11.11	14.36	13.52	12.71
10	19.17	15.38	15.84	16.35	14.14	13.70	11.47	11.28	11.02	14.41	13.43	15.51
15	18.15	15.01	16.42	15.86	14.36	14.51	11.82	10.43	10.71	14.75	14.73	15.18
20	18.35	15.33	15.02	15.21	14.73	15.52	13.48	10.08	12.96	15.35	14.82	16.22
25	15.54	15.34	16.36	16.25	10.33	15.25	8.43	10.82	14.90	15.12	14.46	15.92
EOM	13.08	15.19	16.37	14.68	12.78	11.90	12.11	10.13	13.43	14.17	13.30	16.05
MAX	23.21	16.62	16.46	16.85	15.92	15.52	13.51	12.20	14.90	15.49	15.47	16.56

CAL YR 1998 MAX 23.21
WTR YR 1999 MAX 23.21

PINELLAS COUNTY

STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (FEET) (72020)
273655082440901	FT DESOTO PARK NEAR PASS-A-GRILLE BEACH FL	05-11-99	9.47
		09-16-99	12.85
274614082425205	BEAR CREEK B5 INJECTION MON WELL 300 NR ST PETE FL	05-11-99	8.55
		09-16-99	12.02
274624082383701	7462382437 MIRROR LAKE CTY WELL NEAR GULFPORT FL	05-13-99	7.52
		09-16-99	11.72
274848082461201	WAR VETS MEM PK DEEP WELL 1 NEAR MEDEIRA BEACH FL	05-13-99	4.99
		09-16-99	8.09
274859082390701	ROBERTS COMM CTR DEEP NEAR LEALMAN FL	05-13-99	5.16
		09-16-99	8.76
274904082423601	NO 749242344114 NEAR LEALMAN FL	05-13-99	7.74
		09-16-99	12.09
274929082443504	SOUTH CROSS BAYOU A4 AT ST PETERSBURG FL	05-10-99	17.35
		09-15-99	21.50
274937082480801	TIDES GOLF DEEP WELL NEAR PINELLAS PARK FL	05-13-99	5.35
		09-16-99	8.53
275121082412601	TAMERAK DEEP WELL NEAR PINELLAS PARK FL	05-13-99	4.97
275241082503901	MK C1 NEAR INDIAN ROCKS BEACH FL	05-13-99	7.78
		09-15-99	10.01
275521082444301	ST CATHERINE DEEP WELL NEAR HIGH POINT FL	05-12-99	3.91
		09-14-99	6.24
275604082431701	COVE CAY DEEP WELL NEAR HIGH POINT FL	05-12-99	4.63
		09-14-99	6.01
275753082435301	CLE-DUN DEEP WELL 31 NEAR CLEARWATER FL	05-12-99	3.67
		09-14-99	5.49
275842082430301	MISSION HILLS NEAR SAFETY HARBOR FL	05-12-99	9.99
		09-14-99	11.67
275949082442401	SYL ABBEY DEEP WELL 3 NR SAFETY HARBOR FL	05-12-99	18.20
		09-15-99	19.72
280002082412602	ROMP TR14-1 TAMPA WELL NEAR SAFETY HARBOR FL	05-12-99	7.04
		09-15-99	9.32
280129082445501	SWFWMD 6" TEST WELL 1 AT DUNEDIN FL	05-11-99	5.03
		09-14-99	6.58
280134082454801	DUNEDIN 10A AT DUNEDIN FL	05-10-99	4.40
		09-14-99	6.10
280446082390701	EAST LAKE DEEP WELL 17 NEAR TARPOPN SPRINGS FL	05-13-99	14.34
		09-13-99	16.50

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1998 TO SEPTEMBER 1999

PINELLAS COUNTY

STATION NUMBER	STATION NAME	DATE	ELEV-ATION ABOVE NGVD (FEET) (72020)
280546082390701	EAST LAKE DEEP WL 14 NEAR OLDSMAR FL	05-13-99	14.02
		09-13-99	16.91
280632082455001	NW PINELLAS MTR DEEP NEAR TARPON SPRINGS FL	05-10-99	2.24
		09-15-99	2.75
280852082414301	NORTH LAKE TARPON NEAR TARPON SPRINGS FL	05-10-99	10.56
		09-13-99	12.73
280856082401201	ELDRIDGE-WILDE 2S NEAR TARPON SPRINGS FL	05-10-99	8.63
		09-13-99	13.77
280942082390601	PINELLAS SHALLOW WELL N1A NEAR TARPON SPRINGS FL	05-10-99	8.53
		09-13-99	13.65

KEY TO SITE LOCATIONS ON FIGURE 20

POLK COUNTY

INDEX NUMBER	SITE NUMBER	PAGE NUMBER
1	274155081573201	148
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5	275314081514201	150
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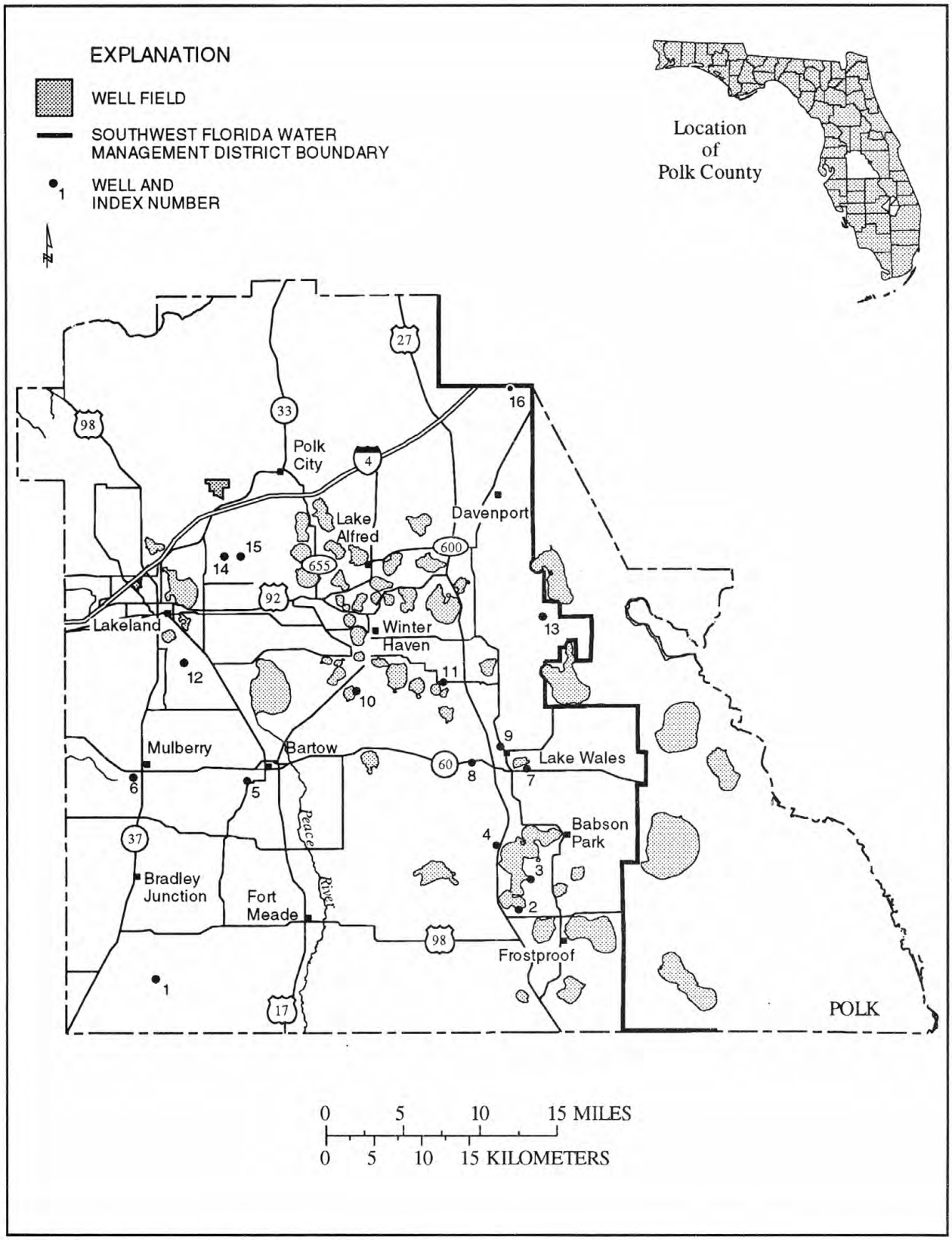

Figure 20.-- Location of wells in Polk County.

POLK COUNTY

WELL NUMBER.--274155081573201. Fort Green Springs Road Well near Bradley Junction, FL.

LOCATION.--Lat 27°41'55", long 81°57'32", in $SE^1/_4SE^1/_4$ 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. Measuring point: Top of aluminum plate, 1.33 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, 79.66 ft NGVD, Apr. 1, 1998; lowest measured, 25.76 ft NGVD, May 14, 1975.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)	DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)
OCT			MAY		
09...	1357	71.79	12...	1304	46.47
DEC			18...	1540	47.77
07...	1716	65.03	JUN		
JAN			28...	1743	55.89
29...	1615	68.50	AUG		
APR			09...	1802	63.04
02...	1505	53.73	SEP		
			17...	1334	65.50

WELL NUMBER.--274545081342501. ROMP CL-3 FLRD Well near Frostproof, FL.

LOCATION.--Lat 27°45'45", long 81°34'25", in $NE^1/_4NW^1/_4$ sec.25, T.31 S., R.27 E., Hydrologic Unit 03090101, 0.5 mi north of State Highway 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), 91.70 ft NGVD, Mar. 9, 1998; lowest, 62.74 ft NGVD, May 27, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	87.17	80.61	78.52	83.99	85.15	80.38	72.36	70.46	72.20	82.75	82.47	84.75
10	85.30	83.48	77.09	81.59	84.00	77.90	68.57	71.79	76.01	83.05	83.77	81.73
15	81.46	83.73	79.34	82.41	84.21	78.26	66.72	75.01	77.47	83.57	84.43	83.86
20	82.16	79.77	80.74	82.34	84.08	78.15	69.04	75.82	79.57	83.78	84.67	84.74
25	82.59	80.42	80.47	83.60	81.27	73.80	67.46	73.77	80.60	83.50	85.58	85.40
EOM	78.74	81.04	83.25	84.73	80.82	71.71	69.34	72.68	81.89	80.47	83.86	86.16
MAX	87.54	83.73	83.25	84.73	85.43	81.30	72.36	76.13	81.89	83.78	85.69	86.16

CAL YR 1998 MAX 91.70
WTR YR 1999 MAX 87.54

POLK COUNTY

WELL NUMBER.--274730081333801. ROMP 55 FLRD Well near Babson Park, FL.

LOCATION.--Lat 27°47'30", long 81°33'38", in $NW^1/_4NE^1/_4$ 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, 94.58 ft NGVD, Mar. 9, 1998; lowest, 67.06 ft NGVD, May 13, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	90.50	84.11	80.71	87.06	88.38	84.00	75.95	74.34	75.75	85.01	85.65	87.56
10	88.19	86.54	80.37	84.77	86.54	81.79	72.47	75.52	79.05	85.70	86.71	84.01
15	84.07	86.67	83.06	86.05	87.52	81.65	68.79	78.48	80.63	86.28	87.22	86.80
20	84.90	81.66	84.31	85.99	87.65	81.53	72.87	79.29	82.51	86.38	87.62	87.68
25	85.18	83.76	84.09	86.82	83.51	76.54	71.00	75.38	83.34	86.39	88.46	88.24
EOM	81.68	84.80	86.41	87.89	84.43	75.92	73.30	76.22	84.75	83.26	86.82	88.85
MAX	90.62	86.83	86.41	87.89	88.68	84.89	76.54	79.45	84.75	86.61	88.48	88.85

CAL YR 1998 MAX 94.58
WTR YR 1999 MAX 90.62

WELL NUMBER.--274926081355301. ROMP 44 Floridan Well near Babson Park, FL.

LOCATION.--Lat 27°49'26", long 81°35'53", in $SE^1/_4NE^1/_4$ 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, 99.85 ft NGVD, Mar. 9, 1998; lowest, 72.63 ft NGVD, May 21, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	95.77	89.40	88.84	92.64	93.51	89.70	82.05	80.28	80.75	89.92	90.04	92.07
10	94.74	91.40	87.62	89.41	93.47	88.78	79.88	80.44	83.22	90.06	90.90	91.38
15	93.41	92.34	88.88	90.99	92.75	86.68	78.17	83.02	85.12	90.54	91.38	---
20	91.61	90.93	90.30	91.61	93.02	87.32	78.72	84.43	86.67	90.61	92.00	92.15
25	91.21	89.77	90.35	91.79	91.03	86.07	77.92	84.12	88.01	90.12	92.65	92.82
EOM	90.26	90.46	91.72	92.90	90.02	83.69	78.22	81.31	89.16	89.91	92.67	93.60
MAX	95.77	92.35	91.72	92.90	93.72	90.02	83.49	84.52	89.16	90.65	92.96	---

CAL YR 1998 MAX 99.85

POLK COUNTY

WELL NUMBER.--274926081355302. ROMP 44 NRSD Well near Babson Park, FL.

LOCATION.--Lat 27°49'26", long 81°35'53", in $SE^1/_4NE^1/_4$ 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.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 132.94 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of shelter floor, 3.37 ft above land-surface datum.

PERIOD OF RECORD.--January 1989 to September 1994; October 1994 to current year (periodic).

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 1998 TO SEPTEMBER 1999

DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)	DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)
OCT			MAY		
06...	1112	128.80	18...	1128	126.54
DEC			JUN		
07...	1148	127.90	29...	1225	128.94
JAN			AUG		
26...	1020	128.33	10...	1005	128.88
MAR					
30...	1103	127.17			

WELL NUMBER.--275314081514201. ROMP 59 Avon Park Well at Bartow, FL.

LOCATION.--Lat 27°53'14", long 81°51'42", in $SE^1/_4NE^1/_4$ 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.

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

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, 83.84 ft NGVD, Mar. 9, 1998; lowest, 33.33 ft NGVD, May 16, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	74.89	70.13	68.37	70.22	71.99	67.68	57.62	50.50	51.01	62.25	65.34	68.43
10	75.09	70.75	68.22	68.37	71.97	66.11	54.53	50.65	52.51	63.11	66.13	68.02
15	74.31	70.92	68.41	69.70	71.78	64.30	52.40	51.71	53.79	63.64	66.87	68.61
20	73.38	69.61	68.87	70.29	71.35	63.73	51.85	52.39	56.09	64.11	67.30	68.92
25	72.45	69.33	68.84	70.50	69.68	61.94	50.56	52.41	58.11	64.22	68.19	69.69
EOM	70.56	69.70	69.62	71.49	68.97	59.38	49.91	51.86	60.29	64.68	68.53	70.75
MAX	75.18	70.95	69.62	71.49	---	68.98	58.81	52.62	60.29	64.77	68.70	70.75

CAL YR 1998 MAX 83.84

POLK COUNTY

WELL NUMBER.--275314081514202. ROMP 59 Hawthorn Well at Bartow, FL.

LOCATION.--Lat 27°53'14", long 81°51'42", in $SE^1/_4NE^1/_4$ 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, 95.64 ft NGVD, Apr. 4, 5, 6, 1998; lowest, 74.85 ft NGVD, June 15-18, 1977.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	90.26	90.17	88.66	87.55	87.13	86.61	84.28	81.99	80.71	80.71	81.54	82.67
10	90.89	89.77	88.43	87.47	87.13	86.30	83.85	81.71	80.54	80.87	81.70	82.79
15	91.14	89.54	88.21	87.34	87.07	86.00	83.44	81.49	80.40	81.06	81.88	82.83
20	91.09	89.36	87.97	87.25	87.07	85.56	82.97	81.26	80.30	81.18	81.99	82.76
25	90.92	89.12	87.77	87.19	86.94	85.19	82.58	81.07	80.28	81.30	82.22	82.79
EOM	90.58	88.88	87.65	87.13	86.83	84.68	82.28	80.87	80.52	81.42	82.52	82.89
MAX	91.14	90.50	88.83	87.62	87.13	86.80	84.60	82.23	80.84	81.42	82.52	82.89

CAL YR 1998 MAX 95.64
WTR YR 1999 MAX 91.14

WELL NUMBER.--275314081514203. ROMP 59 Upper Hawthorn Well at Bartow, FL.

LOCATION.--Lat 27°53'14", long 81°51'42", in $SE^1/_4NE^1/_4$ 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.--Water-stage recorder--60-minute interval.

DATUM.--Land-surface datum is 118.71 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of flange, 2.94 ft above land-surface datum.

PERIOD OF RECORD.--February 1977 to September 1979; October 1979 to September 1997 (periodic); October 1997 to current year. Prior to October 1979, published as Bartow Upper Hawthorn Well at Bartow.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 98.36 ft NGVD, Mar. 30, 1998; lowest, 75.24 ft NGVD, June 13, 16, 17, 18, 1977.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	93.53	92.28	90.50	89.39	89.27	88.32	85.33	82.92	82.35	83.21	84.50	85.78
10	93.85	91.72	90.22	89.54	89.29	88.15	84.85	82.78	82.28	83.48	84.76	85.93
15	93.74	91.72	89.92	89.35	89.18	87.59	84.22	82.66	82.29	83.71	84.85	86.01
20	93.42	91.33	89.70	89.25	89.25	86.98	83.67	82.56	82.24	83.88	84.97	85.81
25	93.16	91.06	89.64	89.12	88.93	86.55	83.37	82.55	82.57	84.03	85.48	85.88
EOM	92.54	90.71	89.48	89.27	88.87	85.89	83.18	82.49	82.86	84.22	85.63	86.13
MAX	93.86	92.43	90.70	89.67	89.36	88.77	85.82	83.09	82.86	84.23	85.75	86.13

CAL YR 1998 MAX 98.36
WTR YR 1999 MAX 93.86

POLK COUNTY

WELL NUMBER.--275326081585801. ROMP 60 Deep Well at Mulberry, FL.

LOCATION.--Lat 27°53'26", long 81°58'58", in $SE^1/_4NW^1/_4$ sec.11, T.30 S., R.23 E., Hydrologic Unit 03l00204, 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 September 1999 (discontinued). 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 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	72.79	67.65	66.31	68.30	70.29	65.75	55.64	48.95	49.32	60.41	63.76	66.91
10	72.94	68.37	66.25	66.30	70.29	64.30	52.68	48.60	50.84	61.46	64.54	66.67
15	72.07	68.54	66.30	67.66	69.90	62.28	50.64	49.63	52.11	62.09	65.24	67.00
20	71.27	67.58	66.86	68.29	69.50	61.73	48.83	50.59	54.36	62.65	65.77	67.29
25	70.07	67.21	66.81	68.53	67.70	60.07	---	50.74	56.28	62.69	66.59	68.03
EOM	68.23	67.51	67.67	69.61	66.87	57.72	47.55	50.19	58.44	63.15	66.99	69.05
MAX	73.03	68.55	67.67	69.61	70.48	66.86	---	---	58.44	63.22	67.14	69.05

WELL NUMBER.--275348081335701. ROMP 57A Ocala Well near Lake Wales, FL.

LOCATION.--Lat 27°53'48", long 81°33'55", in $SE^1/_4SE^1/_4$ 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, 104.50 ft NGVD, Mar. 24, 1998; lowest, 89.72 ft NGVD, Dec. 25, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	103.24	102.42	101.64	102.55	102.23	100.46	99.37	98.20	97.91	100.92	100.09	99.61
10	102.49	102.75	101.22	101.80	101.21	100.04	97.84	99.29	99.11	100.43	100.15	98.46
15	101.21	102.21	102.18	101.83	102.08	100.87	97.76	99.79	99.40	100.48	100.07	100.04
20	101.78	101.29	102.12	101.28	101.19	100.11	98.91	99.12	100.17	100.39	100.66	100.37
25	102.40	101.45	102.25	102.24	100.70	98.81	98.07	98.56	100.32	100.21	100.68	100.09
EOM	100.99	102.04	102.08	102.07	101.02	98.69	99.14	98.84	100.62	99.18	99.56	100.25
MAX	103.24	102.85	102.40	102.58	102.25	101.28	99.37	99.93	100.72	100.92	100.73	100.50

WTR YR 1999 MAX 103.24

POLK COUNTY

WELL NUMBER.--275348081335703. ROMP 57A NRSD Well near Lake Wales, FL.

LOCATION.--Lat 27°53'48", long 81°33'57", in $SE^1/_4SE^1/_4$ 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.--Surficial aquifer system of Quaternary Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 135 ft, cased to 114 ft.

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

DATUM.--Land-surface datum is 197.59 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of shelter floor, 3.25 ft above land-surface datum.

PERIOD OF RECORD.--November 1987 to September 1994; October 1994 to current year (periodic).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 107.42 ft NGVD, Apr. 1, 1998; lowest daily maximum water level, 97.48 ft NGVD, May 31, June 1, 2, 1990.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)	DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)
OCT			MAY		
06...	0945	107.09	18...	0908	104.38
DEC			JUN		
03...	1602	106.60	29...	1027	104.26
JAN			AUG		
26...	0811	106.13	10...	0801	104.33
MAR					
30...	0905	105.46			

WELL NUMBER.--275411081372001. ROMP 57 Floridan Well near Lake Wales, FL.

LOCATION.--Lat 27°54'11", long 81°37'20", in $NE^1/_4NE^1/_4$ 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.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 7 in., depth 634 ft, cased to 160 ft.

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

DATUM.--Land-surface datum is 128.22 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 4.21 ft above land-surface datum.

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

PERIOD OF RECORD.--July 1981 to current year. Prior to October 1, 1982, published as ROMP 57-1 Floridan Well near Lake Wales.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 111.20 ft NGVD, Mar. 23, 1998; lowest, 87.93 ft NGVD, May 30, 1986.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	108.47	103.91	103.43	104.10	---	101.42	97.95	96.28	96.84	105.90	102.79	103.08
10	106.62	105.84	102.78	103.55	---	100.85	95.34	98.11	100.09	104.21	104.18	101.65
15	105.34	105.43	104.05	103.99	104.65	100.76	94.65	100.67	101.12	102.72	104.33	102.80
20	105.02	102.02	105.44	105.04	103.45	101.81	95.69	100.45	103.07	102.56	104.93	103.60
25	105.18	103.90	105.39	105.89	103.03	98.56	95.56	97.97	103.92	102.49	104.96	103.91
EOM	102.42	104.84	105.77	106.34	103.24	97.56	96.02	98.82	104.92	100.72	101.44	105.07
MAX	108.47	105.88	105.97	---	---	103.42	---	101.49	104.92	105.96	105.08	105.07

POLK COUNTY

WELL NUMBER.--275411081372002. ROMP 57 Hawthorn Well near Lake Wales, FL.

LOCATION.--Lat 27°54'11", long 81°37'20", in $NE^1/_4NE^1/_4$ sec.4, T.30 S., R.27 E., Hydrologic Unit 0310010l, 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.

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

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, 109.92 ft NGVD, Apr. 24, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	116.66	114.55	113.92	114.40	---	113.16	111.36	110.37	110.53	115.22	113.41	113.16
10	115.84	115.12	113.55	113.67	---	112.96	110.68	110.75	111.08	114.58	113.87	112.54
15	115.40	114.93	113.95	113.74	114.26	112.81	110.28	112.01	111.74	113.89	113.74	112.75
20	115.04	113.84	114.30	114.00	113.99	112.81	110.60	112.03	113.44	113.85	113.89	112.91
25	114.91	114.24	114.26	114.89	113.74	111.88	110.14	111.59	113.94	113.35	113.82	113.03
EOM	113.87	114.40	114.37	115.17	113.67	111.45	110.31	111.14	114.51	112.79	112.97	113.85
MAX	116.98	115.12	114.39	---	---	113.73	111.55	112.28	114.51	115.22	113.91	113.85

WELL NUMBER.--275411081372003. ROMP 57 NRSD Well near Lake Wales, FL.

LOCATION.--Lat 27°54'11", long 81°37'20", in $NE^1/_4NE^1/_4$ 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 1998 TO SEPTEMBER 1999

DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)	DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)
OCT			MAY		
06...	0830	120.28	18...	0822	116.31
DEC			JUN		
03...	1516	118.26	29...	0928	118.41
JAN			AUG		
26...	0705	118.57	10...	0714	117.71
MAR					
30...	0813	116.95			

POLK COUNTY

WELL NUMBER.--275507081353701. ROMP 58 Ocala Well near Lake Wales, FL.

LOCATION.--Lat 27°55'07", long 81°35'37", in NW$^1/_4$SW$^1/_4$ 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, 104.59 ft NGVD, Mar. 23, 1998; lowest, 84.86 ft NGVD, May 19, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	98.95	98.31	100.74	100.18	94.18	92.09	92.04	91.39	100.31	97.32	95.44
10	---	100.48	97.37	98.35	99.38	95.67	88.83	---	95.54	98.44	97.70	95.09
15	98.60	98.99	99.42	96.94	99.46	94.91	90.26	95.93	95.61	97.76	98.36	95.74
20	99.15	97.16	99.72	98.64	97.32	96.34	92.44	93.46	98.43	97.82	99.06	97.05
25	99.26	98.22	99.60	100.40	96.42	92.20	91.33	92.59	98.21	97.53	98.76	95.99
EOM	97.29	99.26	99.45	100.07	97.96	92.91	90.47	93.19	99.22	93.79	95.36	98.48
MAX	---	100.55	100.05	100.94	100.42	98.09	93.48	---	99.41	100.31	99.06	98.48

WELL NUMBER.--275507081353702. ROMP 58 NRSD Well near Lake Wales, FL.

LOCATION.--27°55'07", long 81°35'37", in NW$^1/_4$SW$^1/_4$ 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.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 142 ft, from topographic map. Measuring point: Top of shelter floor, 3.18 ft above land-surface datum.

PERIOD OF RECORD.--November 1987 to September 1994; October 1994 to current year (periodic). Prior to October 1, 1991, published as ROMP 58 Shallow well near Lake Wales.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 125.95 ft NGVD, Apr. 1, 1998; lowest daily maximum water level, 116.21 ft NGVD, Apr. 11, May 29, 31, 1992.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)	DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)
OCT			MAY		
14...	0930	123.33	18...	1005	118.59
DEC			JUN		
03...	1740	121.92	29...	1108	119.28
JAN			AUG		
26...	0901	120.74	10...	1052	119.56
MAR					
30...	0952	119.57			

POLK COUNTY

WELL NUMBER.--275815081444201. Lake McLeod Shallow Well near Eagle Lake, FL.

LOCATION.--Lat 27°58'15", long 81°44'42", in $SE^1/_4SE^1/_4$ sec.7, T.29 S., R.26 E., Hydrologic Unit 0310010l, 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, 136.03 ft NGVD, Oct. 5, 1998; lowest measured, 122.93 ft NGVD, June 1, 1977.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)	DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)
OCT			MAY		
05...	1649	136.03	17...	1429	131.90
DEC			JUN		
01...	1545	134.29	28...	1543	132.46
JAN			AUG		
25...	1445	133.67	09...	1615	131.82
MAR					
29...	1428	132.77			

WELL NUMBER.--275840081391101. Rodgers Well near Waverly, FL.

LOCATION.--Lat 27°58'40", long 81°39'11", in $SE^1/_4NW^1/_4$ sec.7, T.29 S., R.27 E., Hydrologic Unit 0310010l, 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 September 1999 (periodic), discontinued. 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, 92.61 ft NGVD, Nov. 29, 1993.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)	DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)
OCT			MAY		
06...	1040	111.90	18...	1047	108.78
DEC			JUN		
07...	1117	108.08	29...	1154	111.60
JAN			AUG		
26...	0945	111.00	10...	0930	110.37
MAR					
30...	1032	101.76			

POLK COUNTY

WELL NUMBER.--275959081552501. Sanlon Ranch Deep Well near Eaton Park, FL.

LOCATION.--Lat 27°59'59", long 81°55'25", in $SW^1/_4SW^1/_4$ 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, 104.51 ft NGVD, Mar. 28, 1998; lowest, 66.38 ft NGVD, May 9, 1975.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	98.00	95.17	94.29	94.93	95.28	92.91	87.59	83.63	84.17	89.57	91.17	93.27
10	98.08	95.36	93.92	94.37	95.38	92.27	86.19	83.67	84.29	90.13	91.86	93.52
15	97.54	95.54	94.08	94.19	95.20	91.38	84.73	84.32	85.21	90.83	92.06	93.43
20	96.89	95.13	94.21	94.38	94.88	90.86	84.11	84.72	85.98	91.17	92.64	93.71
25	96.25	94.70	94.28	94.55	94.14	90.32	83.49	85.11	87.05	91.24	93.43	94.06
EOM	95.46	94.83	94.65	95.00	93.69	88.91	83.48	84.75	88.32	91.10	93.52	94.57
MAX	98.17	95.54	94.81	95.00	95.46	93.58	88.63	85.11	88.32	91.32	93.61	94.57

WTR YR 1999 MAX 98.17

WELL NUMBER.--280229081325201. Lake Hatchineha Road Well near Lake Hamilton, FL.

LOCATION.--Lat 28°02'29", long 81°32'52", in $SE^1/_4SE^1/_4$ 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 casing (corrected), 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, 86.14 ft NGVD, Mar. 30, 1998; lowest measured, 74.43 ft NGVD, June 6, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)	DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)
OCT			MAY		
05...	1505	83.40	11...	1206	80.31
DEC			17...	1300	80.55
01...	1358	82.06	JUN		
JAN			28...	1345	81.62
25...	1304	82.82	AUG		
MAR			09...	1436	81.38
29...	1250	79.70	SEP		
			15...	1228	81.37

POLK COUNTY

WELL NUMBER.--280558081530101. Tenoroc Replacement NRSD Well near Lakeland, FL.

LOCATION.--Lat 28°05'58", long 81°53'01", in $SE^1/_4SW^1/_4$ sec.26, T.27 S., R.24 E., Hydrologic Unit 03100101, located on state land (Tenoroc Fish Management Area), 50 ft south of Tenoroc Mine Road, 1.8 mi east of Combee Road, and 6.2 mi northeast of Lakeland. Owner: U.S. Geological Survey.

AQUIFER.--Disturbed fill material consisting of unconsolidated quartz sand and clay sediment.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 20 ft, cased to 18 ft.

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

DATUM.--Land-surface datum is 134.81 ft above National Geodetic Vertical Datum of 1929 (levels by University of South Florida). Measuring point: Top of casing, 2.5 ft above land-surface datum.

PERIOD OF RECORD.--October 1997 to March 1999 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 129.67 ft NGVD, Mar. 21, 1998; lowest, 123.95 ft NGVD, July 7, 1998.

ELEVATION, IN FEET NGVD, PERIOD OCTOBER 1998 TO MARCH 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	127.88	---	125.63	125.76	126.14	124.91	---	---	---	---	---	---
10	127.65	---	125.62	125.80	126.01	124.83	---	---	---	---	---	---
15	127.17	---	125.65	125.78	125.64	124.72	---	---	---	---	---	---
20	126.34	---	125.58	125.64	125.68	124.65	---	---	---	---	---	---
25	125.55	---	125.58	125.91	125.22	124.49	---	---	---	---	---	---
EOM	---	---	125.62	126.11	125.24	124.15	---	---	---	---	---	---
MAX	---	---	---	126.12	126.19	125.24	---	---	---	---	---	---

WELL NUMBER.--280559081520501. Tenoroc FLRD Well near Lakeland, FL.

LOCATION.--Lat 28°05'59", long 81°52'05", in $NE^1/_4NW^1/_4$ sec.36, T.27 S., R.24 E., Hydrologic Unit 03100101, located on state land (Tenoroc Fish Management Area), 0.3 mi southeast of Tenoroc Mine Road, 2.0 mi east of Combee Road, and 6.6 mi northeast of Lakeland. Owner: State of Florida.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 430 ft.

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

DATUM.--Land-surface datum is 136.08 ft above National Geodetic Vertical Datum of 1929 (levels by University of South Florida). Measuring point: Top of extension, 3.4 ft above land-surface datum.

PERIOD OF RECORD.--October 1996 to March 1999 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 123.96 ft NGVD, Mar. 21, 1998; lowest, 117.80 ft NGVD, July 4, 1998.

ELEVATION, IN FEET NGVD, PERIOD OCTOBER 1998 TO MARCH 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	122.12	120.42	119.95	120.25	120.28	118.95	---	---	---	---	---	---
10	121.88	120.70	119.87	120.09	120.05	118.84	---	---	---	---	---	---
15	121.14	120.69	120.06	120.23	119.76	118.66	---	---	---	---	---	---
20	120.98	120.25	120.13	120.05	119.54	118.78	---	---	---	---	---	---
25	120.62	120.05	120.11	120.09	119.31	118.35	---	---	---	---	---	---
EOM	120.14	119.98	120.17	120.29	119.26	117.85	---	---	---	---	---	---
MAX	122.12	120.70	120.35	120.38	120.33	119.24	---	---	---	---	---	---

CAL YR 1998 MAX 123.96

POLK COUNTY

WELL NUMBER.--281532081345001. Loughman Deep Well near Loughman, FL.

LOCATION.--Lat 28°15'32", long 81°34'50", in $NW^1/_4NE^1/_4$ 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 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	91.63	91.18	90.58	90.42	90.26	89.77	89.16	88.85	88.98	90.82	90.42	90.40
10	91.53	91.10	90.45	90.53	90.13	89.70	88.71	89.27	88.93	90.85	90.14	90.35
15	91.41	91.01	90.52	90.45	90.07	89.76	88.79	89.39	89.00	90.68	90.16	90.85
20	91.38	90.80	90.39	90.24	89.96	89.55	88.94	89.32	89.95	90.67	90.39	90.90
25	91.23	90.82	90.44	90.36	89.85	89.41	88.67	89.09	90.17	90.50	90.63	90.82
EOM	91.08	90.74	90.38	90.32	89.95	89.32	89.17	89.24	90.77	90.29	90.40	90.79
MAX	91.71	91.18	90.73	90.53	90.34	89.95	89.35	89.41	90.77	90.85	90.63	90.96

WTR YR 1999 MAX 91.71

WELL NUMBER.--281532081345002. Loughman Shallow Well near Loughman, FL.

LOCATION.--Lat 28°15'32", long 81°34'50", in $NW^1/_4NE^1/_4$ 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.--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 nipple, 2.70 ft above land-surface datum.

PERIOD OF RECORD.--January 1967 to September 1997 (periodic); October 1997 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, 94.75 ft NGVD, Mar. 26, 27, 1998; lowest measured, 89.65 ft NGVD, May 20, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	93.20	92.30	91.78	91.40	91.16	90.84	90.48	90.22	90.31	92.72	91.96	92.06
10	93.04	92.20	91.69	91.36	91.11	90.79	90.41	90.22	90.26	92.63	91.86	91.95
15	92.87	92.12	91.63	91.31	91.06	90.73	90.33	90.30	90.24	92.49	91.79	92.13
20	92.71	92.02	91.55	91.26	90.99	90.68	90.28	90.37	90.80	92.39	91.78	92.21
25	92.56	91.94	91.49	91.23	90.93	90.63	90.23	90.36	91.28	92.24	91.99	92.25
EOM	92.38	91.86	91.43	91.19	90.89	90.55	90.22	90.35	92.36	92.06	92.12	92.28
MAX	93.20	92.35	91.84	91.42	91.19	90.89	90.54	90.38	92.36	92.72	92.12	92.28

WTR YR 1999 MAX 93.20

POLK COUNTY

STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (FEET) (72020)
275023081321501	CL-1 FLORIDAN WELL NEAR BABSON PARK FL	05-11-99	92.73
		09-15-99	95.30
275040081493001	IMC TEST WELL ON HWY 98 NEAR BARTOW FL	05-10-99	65.65
		09-13-99	78.95
275059081562201	164 FL	05-10-99	71.89
		09-15-99	85.08
275158081494601	COCHRAN OLD FL	05-10-99	72.09
		09-13-99	79.63
275301081495701	L.B. BARNES WELL 54 AT BARTOW FL	05-10-99	65.94
		09-13-99	75.30
275307081510401	WILDWOOD BAPTIST CHURCH AT BARTOW FL	05-11-99	54.52
275403081391301	SR60 DEEP WELL NEAR LAKE WALES FL	05-11-99	91.95
		09-15-99	99.21
275433081460501	210 FL	05-10-99	86.66
		09-13-99	90.50
275440081493701	CNTRL FL TRUSS HWTN AT BARTOW FL	05-11-99	77.78
		09-15-99	79.06
275538082031901	KNOX DEEP WELL NEAR MULBERRY FL	05-11-99	42.92
		09-15-99	61.97
275545081362701	222 FL	05-11-99	98.62
		09-15-99	101.58
275615082022001	WARREN HAWTHORN NEAR MULBERRY FL	05-11-99	85.86
		09-15-99	93.12
275628081541201	TILLERY ROAD DEEP NEAR LAKELAND FL	05-10-99	52.50
		09-13-99	68.56
275723081465701	FOODTWN DEEP NEAR EAGLE LAKE FL	05-11-99	84.33
		09-15-99	92.49
275728081570001	ROMP 60X FLORIDAN WELL NEAR LAKELAND FL	05-11-99	55.67
		09-13-99	71.56
275800081523001	CNTL HAWTHORN AT HIGHLAND CITY FL	05-10-99	66.84
		09-13-99	80.11
275824081363201	FREEMAN HAWTHORN NEAR DUNDEE FL	05-11-99	98.10
		09-15-99	100.52
280045081504001	POLK CNTY LNDFLL NEAR LAKELAND FL	05-10-99	89.73
		09-13-99	94.42
280053081572301	ORLEANS ST DEEP AT LAKELAND FL	05-10-99	66.32
		09-13-99	78.48

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1998 TO SEPTEMBER 1999

POLK COUNTY

STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (FEET) (72020)
280113081435301	ROMP 73 FLORIDAN WELL AT WINTER HAVEN FL	05-11-99	112.11
		09-15-99	115.22
280247082015301	PRECISION TRUSS NEAR LAKELAND FL	05-10-99	77.04
		09-13-99	86.43
280338081572901	N FLORIDA AVE D AT LAKELAND FL	05-10-99	78.91
		09-13-99	85.26
280420081570101	LAKELAND STADIUM WELL AT LAKELAND FL	05-10-99	87.07
		09-13-99	92.97
280455082021501	PLANT CITY QUAD FL	05-12-99	89.14
		09-14-99	94.24
280520081575201	CRESENT DR DEEP AT LAKELND FL	05-10-99	88.22
		09-13-99	93.45

POLK COUNTY

The following data were collected from October 1998 to September 1999 as part of a study to understand ground-water flow patterns around Lake Starr. Water levels were measured with an electronic or a steel water-level tape.

STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (FEET) (72020)
Water-table (surficial aquifer wells)			
275659081351201	LAKE STARR WTS-26 NRSD WELL NEAR LAKE WALES FL	10-21-98	102.97
		11-27-98	102.63
		12-30-98	102.35
		01-27-99	102.18
		03-05-99	101.45
		04-05-99	100.66
		05-05-99	99.87
		06-02-99	99.54
		07-06-99	100.15
		08-05-99	99.76
		09-08-99	99.55
275659081353501	LAKE STARR WTS-22 NRSD WELL NEAR LAKE WALES FL	10-21-98	107.66
		11-27-98	107.27
		12-30-98	106.96
		01-27-99	106.69
		03-05-99	106.28
		04-05-99	105.64
		05-05-99	104.83
		06-02-99	104.37
		07-06-99	104.31
		08-05-99	104.26
		09-08-99	104.29
275704081345401	LAKE STARR WTS-9 NRSD WELL NEAR LAKE WALES FL	10-21-98	103.94
		11-27-98	103.29
		12-30-98	102.85
		01-27-99	102.53
		03-05-99	102.17
		04-05-99	101.55
		05-05-99	100.72
		06-02-99	100.29
		07-06-99	100.11
		08-05-99	99.97
		09-08-99	99.96
275704081351701	LAKE STARR WTS-19 NRSD WELL NEAR LAKE WALES FL	10-21-98	103.91
		11-27-98	103.52
		12-30-98	103.28
		01-27-99	103.13
		03-05-99	102.47
		04-05-99	101.69
		05-05-99	100.89
		06-02-99	100.62
		07-06-99	101.22
		08-05-99	100.80
		09-08-99	100.66

POLK COUNTY

STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (FEET) (72020)
Water-table (surficial aquifer wells--continued)			
275704081351901	LAKE STARR STUS NRSD WELL NEAR LAKE WALES FL	10-21-98	104.47
		11-27-98	104.07
		12-30-98	103.81
		01-27-99	103.65
		03-05-99	103.07
		04-05-99	102.30
		05-05-99	101.50
		06-02-99	101.20
		07-06-99	101.79
		08-05-99	101.37
		09-08-99	101.25
275706081351001	LAKE STARR WTS-15 NRSD WELL NEAR LAKE WALES FL	10-21-98	104.17
		11-27-98	103.71
		12-30-98	103.37
		01-27-99	103.12
		03-05-99	102.72
		04-05-99	102.03
		05-05-99	101.19
		06-02-99	100.91
		07-06-99	101.20
		08-05-99	100.93
		09-08-99	100.84
275708081352001	LAKE STARR STLS NRSD WELL NEAR LAKE WALES FL	10-21-98	105.25
		11-27-98	104.87
		12-30-98	104.56
		01-27-99	104.51
		03-05-99	103.92
		04-05-99	103.19
		05-05-99	102.38
		06-02-99	102.11
		07-06-99	102.82
		08-05-99	102.32
		09-08-99	102.12
275710081352801	LAKE STARR WTS-21 NRSD WELL NEAR LAKE WALES FL	10-21-98	105.60
		11-27-98	105.23
		12-30-98	104.96
		01-27-99	104.98
		03-05-99	104.36
		04-05-99	103.68
		05-05-99	102.91
		06-02-99	102.63
		07-06-99	103.35
		08-05-99	102.85
		09-08-99	102.65

POLK COUNTY

STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (FEET) (72020)
Water-table (surficial aquifer wells--continued)			
275711081351801	LAKE STARR WTS-17 NRSD WELL NEAR LAKE WALES FL	10-21-98	105.43
		11-27-98	105.06
		12-30-98	104.71
		01-27-99	104.73
		03-05-99	104.20
		04-05-99	103.49
		05-05-99	102.78
		06-02-99	102.56
		07-06-99	103.21
		08-05-99	102.47
275712081354601	LAKE STARR WTS-23 NRSD WELL NEAR LAKE WALES FL	10-21-98	108.56
		11-27-98	108.18
		12-30-98	107.84
		01-27-99	107.70
		03-05-99	107.26
		04-05-99	106.51
		05-05-99	105.61
		06-02-99	105.20
		07-06-99	105.60
		08-05-99	105.58
		09-08-99	105.65
275714081353601	LAKE STARR WTS-25 NRSD WELL NEAR LAKE WALES FL	10-21-98	105.73
		11-27-98	105.40
		12-30-98	105.08
		01-27-99	105.19
		03-05-99	104.47
		04-05-99	103.69
		05-05-99	102.90
		06-02-99	102.68
		07-06-99	103.59
		08-05-99	103.03
		09-08-99	102.82
275715081351001	LAKE STARR WTS-14 NRSD WELL NEAR LAKE WALES FL	10-21-98	105.33
		11-27-98	104.89
		12-30-98	104.56
		01-27-99	104.55
		03-05-99	104.04
		04-05-99	103.34
		05-05-99	102.54
		06-02-99	102.27
		07-06-99	102.82
275717081345801	LAKE STARR STUSE NRSD WELL NEAR LAKE WALES FL	10-21-98	104.27
		11-27-98	103.84
		12-30-98	103.54
		01-27-99	103.27
		03-05-99	102.84
		04-05-99	102.16
		05-05-99	101.42
		06-02-99	101.13
		07-06-99	101.35
		08-05-99	101.08
		09-08-99	101.01

POLK COUNTY

STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (FEET) (72020)
Water-table (surficial aquifer wells--continued)			
275719081353401	LAKE STARR STLW NRSD WELL NEAR LAKE WALES FL	10-21-98	105.71
		11-27-98	105.34
		12-30-98	104.94
		01-27-99	105.10
		03-05-99	104.49
		04-05-99	103.80
		05-05-99	103.03
		06-02-99	102.79
		07-06-99	103.49
		08-05-99	103.00
		09-08-99	102.80
275721081350301	LAKE STARR STLSE NRSD WELL NEAR LAKE WALES FL	10-21-98	105.46
		11-27-98	105.10
		12-30-98	104.77
		01-27-99	104.75
		03-05-99	104.22
		04-05-99	103.64
		05-05-99	102.82
		06-02-99	102.52
		07-06-99	103.10
		08-05-99	102.65
		09-08-99	102.43
275723081344201	LAKE STARR WTS-8 NRSD WELL NEAR LAKE WALES FL	10-21-98	105.13
		11-27-98	104.78
		12-30-98	104.56
		01-27-99	104.27
		03-05-99	103.83
		04-05-99	103.32
		05-05-99	102.77
		06-02-99	102.19
		07-06-99	101.72
		08-05-99	101.68
		09-08-99	102.00
275726081345701	LAKE STARR WTS-11 NRSD WELL NEAR LAKE WALES FL	10-21-98	105.54
		11-27-98	105.17
		12-30-98	104.82
		01-27-99	104.82
		03-05-99	104.31
		04-05-99	103.67
		05-05-99	102.92
		06-02-99	102.63
		07-06-99	103.21
		08-05-99	102.74
		09-08-99	102.54

POLK COUNTY

STATION NUMBER	STATION NAME	DATE	ELEV-ATION ABOVE NGVD (FEET) (72020)
Water-table (surficial aquifer wells--continued)			
275726081354701	LAKE STARR WTS-1 NRSD WELL NEAR LAKE WALES FL	10-21-98	108.08
		11-27-98	107.71
		12-30-98	107.41
		01-27-99	107.22
		03-05-99	106.84
		04-05-99	106.12
		05-05-99	105.25
		06-02-99	104.89
		07-06-99	105.31
		08-05-99	105.37
		09-08-99	105.35
275729081353701	LAKE STARR STLNW NRSD WELL NEAR LAKE WALES FL	10-21-98	106.03
		11-27-98	105.73
		12-30-98	105.54
		01-27-99	105.54
		03-05-99	104.92
		04-05-99	104.18
		05-05-99	103.41
		06-02-99	103.23
		07-06-99	104.17
		08-05-99	103.64
		09-08-99	103.48
275731081354001	LAKE STARR STUNW NRSD WELL NEAR LAKE WALES FL	10-21-98	106.52
		11-27-98	106.16
		12-30-98	106.04
		01-27-99	106.02
		03-05-99	105.37
		04-05-99	104.58
		05-05-99	103.77
		06-02-99	103.56
		07-06-99	104.57
		08-05-99	104.04
		09-08-99	103.95
275734081345501	LAKE STARR STLE NRSD WELL NEAR LAKE WALES FL	10-21-98	105.69
		11-27-98	105.32
		12-30-98	104.97
		01-27-99	104.93
275734081352301	LAKE STARR STLN NRSD WELL NEAR LAKE WALES FL	10-21-98	105.86
		11-27-98	105.52
		12-30-98	105.21
		01-27-99	105.23
		03-05-99	104.73
		04-05-99	104.17
		05-05-99	103.42
		06-02-99	103.17
		07-06-99	103.78
		08-05-99	103.34
		09-08-99	103.18

POLK COUNTY

STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (FEET) (72020)
Water-table (surficial aquifer wells--continued)			
275736081352301	LAKE STARR STUN NRSD WELL NEAR LAKE WALES FL	10-21-98	106.35
		11-27-98	106.02
		12-30-98	105.68
		01-27-99	105.64
		03-05-99	105.21
		04-05-99	104.66
		05-05-99	103.89
		06-02-99	103.57
		07-06-99	104.24
		08-05-99	103.84
		09-08-99	103.72
275737081345101	LAKE STARR STUE NRSD WELL NEAR LAKE WALES FL	10-21-98	106.35
		11-27-98	105.95
		12-30-98	105.52
		01-27-99	105.22
		03-05-99	104.89
		04-05-99	104.40
		05-05-99	103.77
		06-02-99	103.28
		07-06-99	103.33
		08-05-99	103.30
		09-08-99	103.26
275739081350401	LAKE STARR STLNE NRSD WELL NEAR LAKE WALES FL	10-21-98	105.62
		11-27-98	105.28
		12-30-98	104.97
		01-27-99	104.97
		03-05-99	104.44
		04-05-99	103.80
		05-05-99	103.08
		06-02-99	102.76
		07-06-99	103.33
		08-05-99	102.92
		09-08-99	102.72
275749081354001	LAKE STARR WTS-4 NRSD WELL NEAR LAKE WALES FL	10-21-98	109.39
		11-27-98	109.16
		12-30-98	108.95
		01-27-99	108.72
		03-05-99	108.32
		04-05-99	107.70
		05-05-99	106.95
		06-02-99	106.50
		07-06-99	106.45
		08-05-99	106.94
		09-08-99	107.17

POLK COUNTY

STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (FEET) (72020)
Water-table (surficial aquifer wells--continued)			
275753081350201	LAKE STARR WTS-7 NRSD WELL NEAR LAKE WALES FL	10-21-98	106.40
		11-27-98	106.15
		12-30-98	105.89
		01-27-99	105.62
		03-05-99	105.26
		04-05-99	104.71
		05-05-99	103.93
		06-02-99	103.48
		07-06-99	103.55
		08-05-99	104.05
		09-08-99	103.90

POLK COUNTY

The following data were collected from October 1998 to September 1999 as part of a study to understand ground-water flow patterns around Lake Starr. Water levels were measured with an electronic or a steel water-level tape.

STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (FEET) (72020)
Piezometer (nest wells)			
275709081352001	LAKE STARR 2PNS-10 NRSD WELL NEAR LAKR WALES FL	10-21-98	105.45
		11-27-98	104.89
		12-30-98	104.75
		01-27-99	104.73
		03-05-99	104.16
		04-05-99	103.44
		05-05-99	102.38
		06-02-99	102.09
		07-06-99	102.77
		08-05-99	102.31
		09-08-99	102.10
275709081352002	LAKE STARR 2PNS-27 NRSD WELL NEAR LAKE WALES FL	10-21-98	105.44
		11-27-98	105.06
		12-30-98	104.75
		01-27-99	104.73
		03-05-99	104.16
		04-05-99	103.45
		05-05-99	102.64
		06-02-99	102.36
		07-06-99	103.02
		08-05-99	102.55
		09-08-99	102.32
275709081352003	LAKE STARR 2PNS-51 NRSD WELL NEAR LAKE WALES FL	10-21-98	105.26
		11-27-98	104.90
		12-30-98	104.60
		01-27-99	104.56
		03-05-99	103.94
		04-05-99	103.23
		05-05-99	102.43
		06-02-99	102.17
		07-06-99	102.83
		08-05-99	102.37
		09-08-99	102.15
275709081352004	LAKE STARR 2PNS-101 NRSD WELL NEAR LAKE WALES FL	10-21-98	105.09
		11-27-98	104.63
		12-30-98	104.57
		01-27-99	104.43
		03-05-99	104.20
		04-05-99	103.83
		05-05-99	103.47
		06-02-99	103.31
		07-06-99	103.21
		08-05-99	103.14
		09-08-99	103.15

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STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (FEET) (72020)
Piezometer (nest wells--continued)			
275709081352005	LAKE STARR 2PNS-156 NRSD WELL NEAR LAKE WALES FL	10-21-98	104.27
		11-27-98	104.09
		12-30-98	103.86
		01-27-99	103.80
		03-05-99	102.86
		04-05-99	102.15
		05-05-99	101.39
		06-02-99	101.13
		07-06-99	102.09
		08-05-99	101.57
		09-08-99	101.19
275732081352402	LAKE STARR 1PNS-25 NRSD WELL NEAR LAKE WALES FL	10-21-98	105.82
		11-27-98	105.48
		12-30-98	105.17
		01-27-99	105.20
		03-05-99	104.70
		04-05-99	104.14
		05-05-99	103.39
		06-02-99	103.11
		07-06-99	103.71
		08-05-99	103.29
		09-08-99	103.12
275732081352403	LAKE STARR 1PNS-50 NRSD WELL NEAR LAKE WALES FL	10-21-98	105.85
		11-27-98	105.49
		12-30-98	105.21
		01-27-99	105.21
		03-05-99	104.70
		04-05-99	104.14
		05-05-99	103.38
		06-02-99	103.12
		07-06-99	103.72
		08-05-99	103.30
		09-08-99	103.13
275732081352404	LAKE STARR 1PNS-75 NRSD WELL NEAR LAKE WALES FL	10-21-98	105.82
		11-27-98	105.52
		12-30-98	105.21
		01-27-99	105.23
		03-05-99	104.13
		05-05-99	103.41
		06-02-99	103.13
		07-06-99	103.71
		08-05-99	103.30
		09-08-99	103.11

SPECIAL STUDY MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1998 TO SEPTEMBER 1999

POLK COUNTY

STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (FEET) (72020)
Piezometer (nest wells--continued)			
275732081352405	LAKE STARR 1PNS-100 ICU WELL NEAR LAKE WALES FL	10-21-98	105.85
		11-27-98	105.52
		12-30-98	105.23
		01-27-99	105.23
		03-05-99	104.72
		04-05-99	104.12
		05-05-99	104.02
		06-02-99	103.77
		07-06-99	104.39
		08-05-99	103.94
		09-08-99	103.78
275732081352406	LAKE STARR 1PNS-125 FLORIDAN WELL NR LAKE WALES FL	10-21-98	102.80
		11-27-98	101.20
		12-30-98	104.15
		01-27-99	104.30
		03-05-99	97.98
		04-05-99	98.48
		05-05-99	97.84
		06-02-99	97.96
		07-06-99	102.07
		08-05-99	101.44
		09-08-99	99.35
275734081345502	LAKE STARR 3PNS-40 NRSD WELL NEAR LAKE WALES FL	10-21-98	105.70
		11-27-98	105.33
		12-30-98	105.01
		01-27-99	104.93
		03-05-99	104.45
		04-05-99	103.84
		05-05-99	104.36
		06-02-99	104.05
		07-06-99	104.59
		08-05-99	104.15
		09-08-99	103.99

POLK COUNTY

The following data were collected from October 1998 to September 1999 as part of a study to understand ground-water flow patterns around Lake Starr. Water levels were measured with an electronic or a steel water-level tape.

STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (FEET) (72020)
Upper Floridan (aquifer wells)			
275654081350601	NELSON FLORIDAN WELL NEAR LAKE WALES FL	10-21-98	92.83
		11-27-98	94.49
		12-30-98	94.48
		01-27-99	95.01
		03-05-99	90.28
		05-05-99	89.18
		06-02-99	88.27
		07-06-99	93.18
		08-05-99	92.16
		09-08-99	88.23
275659081344401	ORANGE-CO, INC. FLORIDAN WELL NEAR LAKE WALES FL	10-21-98	92.45
		11-27-98	94.38
		12-30-98	94.24
		01-27-99	94.76
		03-05-99	90.33
		04-05-99	88.56
		05-05-99	89.16
		06-02-99	87.61
		07-06-99	92.82
		08-05-99	91.96
		09-08-99	88.72
275707081351901	HART FLORIDAN WELL NEAR LAKE WALES F	10-21-98	95.06
		11-27-98	96.72
		12-30-98	96.54
		01-27-99	97.07
		03-05-99	93.17
		04-05-99	92.03
		05-05-99	90.76
		06-02-99	91.21
		07-06-99	95.47
		08-05-99	94.35
		09-08-99	91.71
275708081354501	ESTEVE FLORIDAN WELL NEAR LAKE WALES FL	10-21-98	101.28
		11-27-98	102.86
		12-30-98	104.47
		01-27-99	104.70
		03-05-99	97.81
		04-05-99	96.82
		05-05-99	96.80
		06-02-99	97.37
		07-06-99	103.86
		08-05-99	101.89
		09-08-99	97.52

SPECIAL STUDY MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1998 TO SEPTEMBER 1999

POLK COUNTY

STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (FEET) (72020)
Upper Floridan (aquifer wells--continued)			
275737081344401	PERRY FLORIDAN WELL NEAR LAKE WALES FL	10-21-98	93.05
		11-27-98	94.17
		12-30-98	95.62
		01-27-99	95.90
		03-05-99	91.98
		04-05-99	90.65
		05-05-99	90.34
		06-02-99	87.54
		07-06-99	94.05
		08-05-99	93.28
		09-08-99	90.47
275742081350901	BEVIS FLORIDAN WELL NEAR LAKE WALES FL	10-21-98	98.28
		11-27-98	98.38
		01-27-99	101.60
		04-05-99	96.98
		05-05-99	94.98
		06-02-99	94.66
		07-06-99	98.10
		08-05-99	98.73
		09-08-99	96.48

LOCATION TO SITES ON FIGURE 21

SARASOTA COUNTY

INDEX NUMBER	SITE NUMBER	PAGE NUMBER	INDEX NUMBER	SITE NUMBER	PAGE NUMBER
1	270137082235301	178	13	270959082203003	189
2	270240082235701	178	14	271001082190701	189
3	270808082152601	179	15	271017082123101	190
3	270808082152603	179	15	271017082123102	190
3	270808082152604	180	15	271017082123103	191
4	270816082192601	180	16	271100082172701	191
4	270816082192602	181	16	271100082172702	192
4	270816082192603	181	16	271100082172703	192
5	270835082194101	182	17	271118082285301	193
6	270852082164801	182	18	271134082092201	194
7	270901082193101	183	18	271134082092202	194
7	270901082193102	183	19	271207082154301	195
7	270901082193103	184	20	271227082084801	195
7	270901082193104	184	21	271601082330501	196
8	270926082155101	185	22	271619082240201	196
8	270926082155103	185	23	271938082251801	197
9	270928082172601	186	24	272020082194801	197
10	270932082195201	186	25	272127082323801	198
11	270933082203601	187	26	272129082330202	198
12	270952082095901	187	27	272316082302601	199
13	270959082203001	188	28	272317082290502	199
13	270959082203002	188			

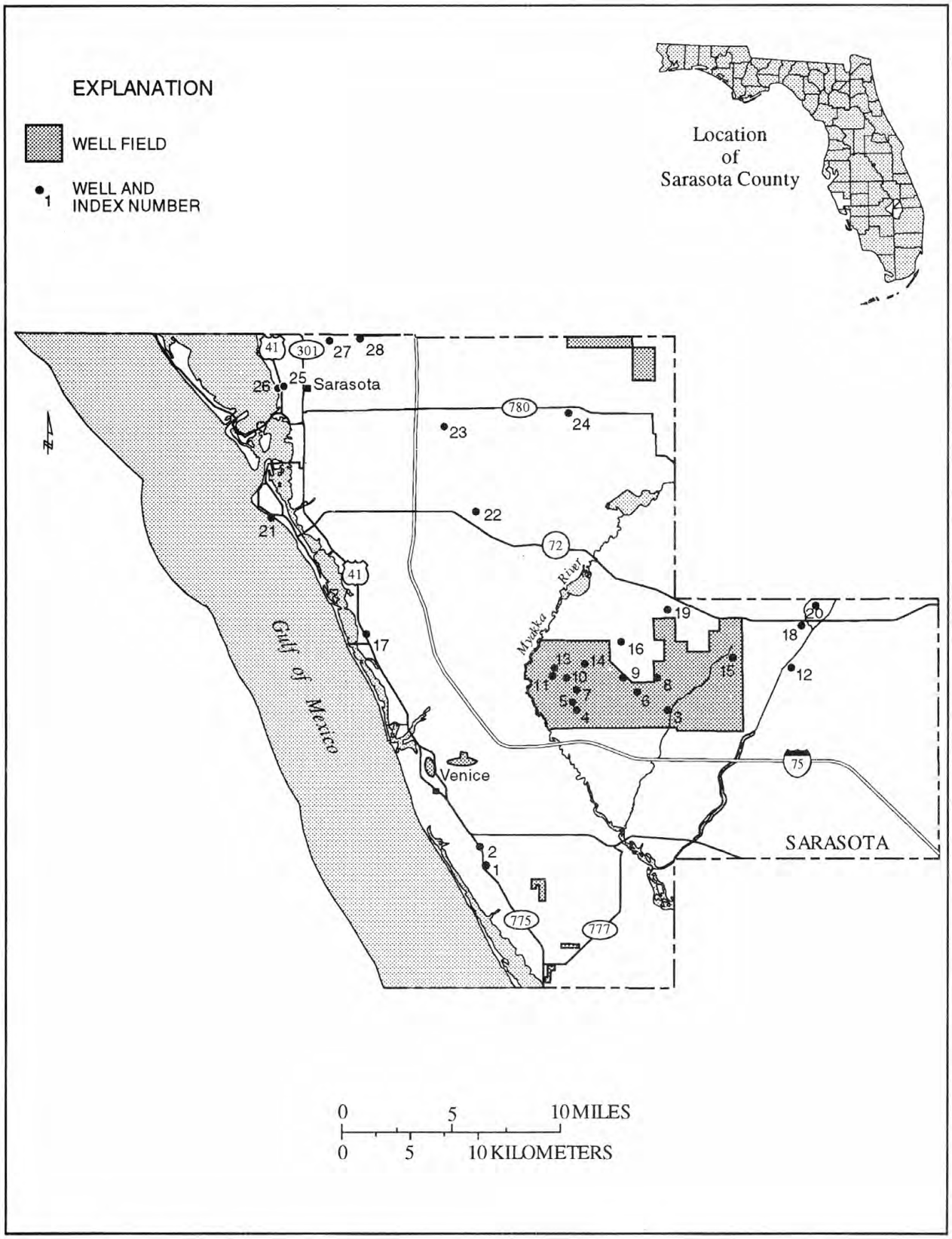

Figure 21.-- Location of wells in Sarasota County.

SARASOTA COUNTY

WELL NUMBER.--270137082235301. Manasota Deep Well 14 near Englewood, FL.

LOCATION.--Lat 27°01'37", long 82°23'53", in $NW^1/_4SW^1/_4$ 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, 17.57 ft NGVD, May 4, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	20.50	20.28	19.49	---	19.67	19.10	18.34	17.62	18.00	19.21	19.62	20.17
10	20.44	19.95	---	---	19.59	18.98	18.21	17.78	18.19	19.36	19.75	20.48
15	20.37	19.80	---	---	19.34	19.14	18.13	17.73	18.29	19.59	19.91	20.55
20	20.13	19.76	---	---	19.58	18.83	17.90	17.69	18.54	19.62	19.96	20.69
25	19.87	19.68	---	19.62	19.26	18.76	17.78	17.69	18.74	19.63	20.06	20.60
EOM	19.83	19.49	---	19.63	19.25	18.53	17.81	17.78	19.04	19.62	20.11	20.60
MAX	20.56	20.28	---	---	19.73	19.25	18.53	17.84	19.04	19.67	20.14	20.82

WELL NUMBER.--270240082235701. ROMP TR 4-2 Suwannee Well near Venice, FL.

LOCATION.--Lat 27°02'40", long 82°23'57", in $SW^1/_4NW^1/_4$ 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, 19.98 ft NGVD, May 3, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	22.86	22.70	21.80	21.75	22.12	21.34	20.84	20.12	20.55	21.84	22.40	22.93
10	22.87	22.09	21.64	22.19	22.08	21.37	20.57	20.28	20.83	22.12	22.45	23.35
15	22.68	22.35	21.62	22.18	21.78	21.67	20.67	20.17	21.10	22.21	22.61	23.12
20	22.66	22.03	21.72	22.10	22.20	21.25	20.17	20.06	21.27	22.23	22.50	23.41
25	22.33	21.99	21.78	22.18	21.71	21.04	20.14	20.10	21.48	22.31	22.71	23.17
EOM	22.51	21.84	21.81	22.15	21.81	20.92	20.23	20.41	21.74	22.40	22.82	23.16
MAX	22.95	22.70	22.11	22.35	22.32	21.74	20.92	20.41	21.74	22.45	22.82	23.59

CAL YR 1998 MAX 23.69
WTR YR 1999 MAX 23.59

SARASOTA COUNTY

WELL NUMBER.--270808082152601. Mabry Carlton CW-6 (14-FS) SWNN Well near Sarasota, FL.

LOCATION.--Lat 27°08'08", long 82°15'26", in $NE^1/_4NE^1/_4$ sec.36, T.38 S., R.20 E., Hydrologic Unit 03100102, 5.1 mi south of State Highway 72, and 22 mi southeast of Sarasota. Owner: Sarasota County.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 550 ft, cased to 500 ft.

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

DATUM.--Land-surface datum is 25.26 ft above National Geodetic Vertical Datum of 1929 (levels by Sarasota County). Measuring point: Top of recorder shelter floor, 18.71 ft above land-surface datum.

PERIOD OF RECORD.--September 1987 to September 1993 (periodic); November 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 39.34 ft NGVD, Oct. 3, 11, 1994; lowest, 25.00 ft NGVD, May 1, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	35.65	34.37	32.95	32.42	33.02	30.00	27.62	25.08	---	32.56	34.17	35.57
10	35.69	33.73	32.58	32.74	32.83	29.91	27.13	25.22	28.34	32.67	34.48	35.75
15	35.53	33.84	32.38	32.72	32.19	29.33	26.51	25.53	---	33.22	34.59	35.68
20	35.35	34.11	32.12	32.73	31.74	28.99	25.90	25.82	29.88	33.71	34.87	35.47
25	34.74	33.43	32.06	32.74	30.93	28.81	25.25	26.15	30.69	34.23	35.29	35.38
EOM	34.39	33.19	32.36	33.05	30.52	28.29	25.14	26.79	31.31	34.14	35.28	35.45
MAX	35.71	34.37	33.15	33.05	33.28	30.40	28.21	26.79	---	34.30	35.50	35.81

WELL NUMBER.--270808082152603. Mabry Carlton CW-6 (14-ES) HTRN Well near Sarasota, FL.

LOCATION.--Lat 27°08'08", long 82°15'26", in $NE^1/_4NE^1/_4$ sec.36, T.38 S., R.20 E., Hydrologic Unit 03100102, 5.1 mi south of State Highway 72, and 22 mi southeast of Sarasota. Owner: Sarasota County.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 14 in., depth 210 ft, cased to 41 ft.

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

DATUM.--Land-surface datum is 25.26 ft above National Geodetic Vertical Datum of 1929 (levels by Sarasota County). Measuring point: Top of recorder shelter floor, 5.61 ft above land-surface datum.

PERIOD OF RECORD.--December 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 28.14 ft NGVD, Oct. 2, 1994; lowest, 21.08 ft NGVD, May 19, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	25.78	26.20	24.78	24.57	24.66	23.79	23.01	21.52	21.23	24.52	25.09	26.23
10	25.44	25.90	24.55	24.50	24.65	23.55	22.71	21.35	21.33	24.49	25.93	26.23
15	25.42	25.58	24.89	24.28	24.38	24.18	22.42	21.23	---	25.56	26.03	26.38
20	25.07	25.50	24.54	24.15	24.26	23.70	22.14	21.19	22.97	25.41	26.31	26.58
25	25.68	25.39	24.31	25.25	23.96	23.39	21.92	21.48	23.33	24.97	26.55	26.43
EOM	25.14	25.02	24.22	24.87	23.87	23.22	21.74	21.21	23.61	24.64	26.41	26.43
MAX	26.16	26.20	25.03	25.29	24.81	24.18	23.17	21.67	---	25.56	26.61	26.62

SARASOTA COUNTY

WELL NUMBER.--270808082152604. Mabry Carlton CW-6 (14S) NRSD Well near Sarasota, FL.

LOCATION.--Lat 27°08'08", long 82°15'26", in $NE^1/_4NE^1/_4$ sec.36, T.38 S., R.20 E., Hydrologic Unit 03100102, 5.1 mi south of State Highway 72, and 22 mi southeast of Sarasota. Owner: Sarasota County.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 37 ft, cased to 5 ft.

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

DATUM.--Land-surface datum is 25.26 ft above National Geodetic Vertical Datum of 1929 (levels by Sarasota County). Measuring point: Top of recorder shelter floor, 2.89 ft above land-surface datum.

PERIOD OF RECORD.--November 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 26.34 ft NGVD, Sept. 19, 1994; lowest, 20.40 ft NGVD, June 1, 1995.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	24.09	25.55	23.22	23.65	23.61	22.63	22.11	20.96	20.60	24.32	23.93	24.73
10	23.57	24.83	22.94	23.44	23.42	22.29	21.84	20.79	20.54	23.75	25.84	24.80
15	23.56	24.11	23.74	22.95	23.02	23.57	21.61	20.66	---	25.51	25.15	25.32
20	23.00	24.62	23.18	22.80	22.80	22.81	21.47	20.69	22.81	24.71	25.41	25.57
25	24.20	24.07	22.89	25.00	22.57	22.43	21.28	21.13	23.03	23.74	25.69	25.18
EOM	23.33	23.54	22.85	24.01	22.50	22.33	21.11	20.66	22.99	23.01	25.21	25.02
MAX	25.36	25.55	24.19	25.31	23.91	23.61	22.29	21.17	---	25.51	25.84	25.57

WELL NUMBER.--270816082192601. Mabry Carlton CW-1 (3F) SWNN Well near Sarasota, FL.

LOCATION.--Lat 27°08'16", long 82°19'26", in $SW^1/_4SE^1/_4$ sec.29, T.38 S., R.20 E., Hydrologic Unit 03100102, 7.2 mi south of State Highway 72, and 19 mi southeast of Sarasota. Owner: Sarasota County.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 554 ft, cased to 500 ft.

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

DATUM.--Land-surface datum is 20.77 ft above National Geodetic Vertical Datum of 1929 (levels by Sarasota County). Measuring point: Top of recorder shelter floor, 18.92 ft above land-surface datum.

PERIOD OF RECORD.--May 1990 to September 1993 (periodic); November 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 36.48 ft NGVD, Oct. 3, 1994; lowest, 17.81 ft NGVD, May 6, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	31.17	29.80	26.06	26.56	26.86	23.25	20.70	18.05	22.77	28.85	27.83	31.16
10	30.98	27.10	26.17	26.12	26.11	24.44	20.37	18.03	24.25	27.51	30.32	31.53
15	29.92	28.27	27.87	26.17	25.61	24.13	19.44	19.21	24.33	29.82	30.88	31.97
20	30.92	30.09	26.33	27.03	24.59	22.42	18.85	18.50	26.11	28.09	30.40	29.24
25	29.49	26.72	26.14	27.98	24.10	21.56	18.44	20.87	26.90	29.50	31.44	---
EOM	27.69	28.75	26.07	27.72	23.42	21.17	18.08	19.45	26.93	28.00	30.96	---
MAX	31.33	30.09	27.87	27.98	28.20	25.30	21.49	20.87	27.01	30.28	31.61	---

CAL YR 1998 MAX 34.19

SARASOTA COUNTY

WELL NUMBER.--270816082192602. Mabry Carlton CW-1 (3E) HTRN Well near Sarasota, FL.

LOCATION.--Lat 27°08'16", long 82°19'26", in $SW^1/_4SE^1/_4$ sec.29, T.38 S., R.20 E., Hydrologic Unit 03100102, 7.2 mi south of State Highway 72, and 19 mi southeast of Sarasota. Owner: Sarasota County.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 112 HTRN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 230 ft, cased to 65 ft.

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

DATUM.--Land-surface datum is 20.77 ft above National Geodetic Vertical Datum of 1929 (levels by Sarasota County). Measuring point: Top of recorder shelter floor, 2.87 ft above land-surface datum.

PERIOD OF RECORD.--September 1987 to September 1993 (periodic); November 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 21.09 ft NGVD, Oct. 3, 1994; lowest, 12.84 ft NGVD, May 30, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.20	18.24	17.65	17.19	17.38	16.61	15.57	13.87	13.11	15.21	16.55	18.12
10	18.23	18.09	17.51	17.33	17.39	16.51	15.34	13.63	13.38	15.45	16.89	18.30
15	18.25	18.08	17.53	17.27	17.26	16.43	15.03	13.39	13.59	15.92	17.11	18.36
20	18.21	18.03	17.45	17.15	17.21	16.19	14.67	13.04	13.91	16.18	17.49	18.52
25	18.15	17.90	17.36	17.25	16.95	16.01	14.40	13.03	14.33	16.37	17.81	---
EOM	18.01	17.79	17.26	17.40	16.91	15.79	14.16	12.90	14.65	16.46	17.99	---
MAX	18.30	18.24	17.79	17.40	17.44	16.86	15.75	14.07	14.65	16.46	18.03	---

CAL YR 1998 MAX 20.56

WELL NUMBER.--270816082192603. Mabry Carlton CW-1 (3G) NRSD Well near Sarasota, FL.

LOCATION.--Lat 27°08'16", long 82°19'26", in $SW^1/_4SE^1/_4$ sec.29, T.38 S., R.20 E., Hydrologic Unit 03100102, 7.2 mi south of State Highway 72, and 19 mi southeast of Sarasota. Owner: Sarasota County.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 35 ft, cased to 5 ft.

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

DATUM.--Land-surface datum is 20.77 ft above National Geodetic Vertical Datum of 1929 (levels by Sarasota County). Measuring point: Top of recorder shelter floor, 2.55 ft above land-surface datum.

PERIOD OF RECORD.--March 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 21.51 ft NGVD, July 18, 1995; lowest, 16.27 ft NGVD, Apr. 11, 1997.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	19.89	20.92	19.08	19.60	19.73	18.91	18.20	17.08	17.63	20.77	19.73	19.97
10	19.59	20.37	18.93	19.41	19.54	18.67	18.03	16.91	18.25	20.18	20.45	20.80
15	20.58	19.91	19.62	19.13	19.31	19.11	17.80	16.73	18.33	20.91	20.59	20.65
20	19.87	19.64	19.29	18.98	19.16	18.77	17.67	16.54	19.46	20.55	20.73	21.17
25	19.92	19.41	19.10	20.61	18.98	18.51	17.44	16.79	19.56	19.80	20.84	---
EOM	19.45	19.21	19.20	20.01	18.87	18.38	17.26	16.49	19.33	19.63	20.35	---
MAX	20.76	20.92	19.70	20.62	19.95	19.11	18.34	17.21	19.68	20.91	20.97	---

CAL YR 1998 MAX 21.26

SARASOTA COUNTY

WELL NUMBER.--270835082194101. Mabry Carlton (STM-24A) Tampa Well near Sarasota, FL.

LOCATION.--Lat 27°08'35", long 82°19'41", in $NE^1/_4SW^1/_4$ sec.29, T.38 S., R.20 E., Hydrologic Unit 03100102, 6.8 mi south of State Highway 72, and 18.5 mi southeast of Sarasota. Owner: Sarasota County.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 400 ft, cased to 280 ft.

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

DATUM.--Land-surface datum is 22.82 ft above National Geodetic Vertical Datum of 1929 (levels by Sarasota County). Measuring point: Top of recorder shelter floor, 15.94 ft above land-surface datum.

PERIOD OF RECORD.--November 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 35.49 ft NGVD, Oct. 3, 1994; lowest, 9.51 ft NGVD, May 6, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	28.91	27.30	21.37	23.27	21.20	16.84	12.94	9.96	19.36	26.83	23.02	28.55
10	28.48	22.47	22.63	21.45	19.59	20.23	14.62	9.79	21.63	23.64	27.26	28.74
15	26.81	24.78	25.59	20.88	18.80	20.28	11.56	14.03	20.95	27.20	28.34	30.29
20	22.81	28.28	22.95	22.83	17.16	15.77	11.23	10.44	23.60	---	27.71	24.96
25	26.76	20.84	22.26	24.80	17.65	---	10.41	15.00	24.45	---	29.68	27.56
EOM	23.72	23.05	21.94	24.29	17.02	---	10.25	12.87	22.99	23.27	28.64	25.73
MAX	29.11	28.28	25.59	24.87	24.97	---	---	15.00	24.45	---	29.68	30.59

WELL NUMBER.--270852082164801. Mabry Carlton 8-B NRSD Well near Sarasota, FL.

LOCATION.--Lat 27°08'52", long 82°16'48", in $SE^1/_4NW^1/_4$ sec.26, T.38 S., R.20 E., Hydrologic Unit 03100102, 4.8 mi south of State Highway 72, and 20.5 mi southeast of Sarasota. Owner: Sarasota County.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 45 ft, cased to 45 ft, screened interval 10-15 ft, 25-30 ft, and 40-45 ft.

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

DATUM.--Land-surface datum is 25.83 ft above National Geodetic Vertical Datum of 1929 (levels by Sarasota County). Measuring point: Top of recorder shelter floor, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--May 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 27.36 ft NGVD, Sept. 28, 1997; lowest, 21.86 ft NGVD, June 2, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	25.87	26.49	25.11	25.34	25.41	24.55	23.84	22.68	22.18	25.55	25.17	25.85
10	25.51	26.29	24.91	25.21	25.19	24.26	23.63	22.57	22.24	24.70	26.42	26.06
15	25.95	25.88	25.47	24.81	24.91	25.02	23.41	22.34	22.04	26.23	26.35	26.30
20	25.37	25.93	25.05	24.71	24.72	24.50	23.28	22.10	23.97	25.94	26.77	26.86
25	25.57	25.60	24.84	26.16	24.55	24.18	23.05	22.23	24.42	25.38	26.76	26.52
EOM	25.09	25.31	24.79	25.73	24.47	24.01	22.88	21.92	24.33	24.86	26.25	26.46
MAX	26.34	26.50	25.59	26.16	25.65	25.02	23.98	22.83	24.71	26.24	26.79	26.90

CAL YR 1998 MAX 27.29
WTR YR 1999 MAX 26.90

SARASOTA COUNTY

WELL NUMBER.--270901082193101. Mabry Carlton CW-2 (OM-21) Ocala Well near Sarasota, FL.

LOCATION.--Lat 27°09'01", long 82°19'31", in $NW^1/_4NE^1/_4$ sec.29, T.38 S., R.20 E., Hydrologic Unit 03100102, 6.3 mi south of State Highway 72, and 18 mi southeast of Sarasota. Owner: Sarasota County.

AQUIFER.--Ocala Group of Eocene Age, Geologic Unit 124 OCAL.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 1,000 ft, cased to 690 ft.

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

DATUM.--Land-surface datum is 24.00 ft above National Geodetic Vertical Datum of 1929 (levels by Sarasota County). Measuring point: Top of recorder shelter floor, 19.93 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby production well.

PERIOD OF RECORD.--September 1987, May 1990, May 1991 to September 1993 (periodic); February 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 36.24 ft NGVD, Oct. 3, 1994; lowest, 9.18 ft NGVD, May 16, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	30.31	28.95	21.84	26.86	---	21.28	20.71	17.48	19.64	28.01	26.63	26.48
10	24.31	25.86	---	25.60	---	23.47	20.03	13.33	22.74	27.27	28.95	27.49
15	25.45	23.86	23.27	25.52	---	22.74	19.19	9.35	22.19	28.92	29.43	31.50
20	30.13	29.43	26.29	26.54	23.40	22.48	17.61	10.74	24.41	28.61	26.66	30.03
25	26.86	25.66	25.29	27.54	24.35	21.26	18.11	17.36	24.67	27.98	30.80	27.04
EOM	22.77	27.82	24.62	26.57	14.19	11.75	16.49	15.91	25.84	28.10	27.76	20.75
MAX	30.42	29.43	---	27.54	---	23.99	21.03	18.97	25.92	29.43	30.83	31.71

WELL NUMBER.--270901082193102. Mabry Carlton CW-2 (SM 21A) SWNN Well near Sarasota, FL.

LOCATION.--Lat 27°09'01", long 82°19'31", in $NW^1/_4NE^1/_4$ sec.29, T.38 S., R.20 E., Hydrologic Unit 03100102, 6.3 mi south of State Highway 72, and 18 mi southeast of Sarasota. Owner: Sarasota County.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 690 ft, cased to 440 ft.

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

DATUM.--Land-surface datum is 24.00 ft above National Geodetic Vertical Datum of 1929 (levels by Sarasota County). Measuring point: Top of recorder shelter floor, 19.54 ft above land-surface datum.

PERIOD OF RECORD.--February 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 36.39 ft NGVD, Oct. 3, 1994; lowest, 11.22 ft NGVD, May 16, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	30.18	28.85	21.55	26.13	---	20.05	19.15	15.81	18.85	27.96	25.12	26.68
10	25.60	24.68	---	24.38	---	22.82	18.74	11.57	22.64	26.41	28.44	26.78
15	25.15	23.08	23.26	24.41	---	22.29	17.61	11.34	21.63	28.79	29.11	31.36
20	30.03	29.50	25.64	25.67	21.84	21.28	16.10	12.05	23.88	27.53	26.44	28.83
25	25.59	24.46	24.62	27.09	23.18	19.78	16.49	16.02	24.39	26.95	30.70	26.15
EOM	23.74	27.76	23.65	25.45	16.49	13.85	14.82	14.60	25.06	27.04	27.06	22.88
MAX	30.32	29.50	---	27.09	---	23.80	19.70	17.88	25.66	29.37	30.70	31.61

SARASOTA COUNTY

WELL NUMBER.--270901082193103. Mabry Carlton CW-2 (HM-21) HTRN Well near Sarasota, FL.

LOCATION.--Lat 27°09'01", long 82°19'31", in NW$^1/_4$NE$^1/_4$ sec.29, T.38 S., R.20 E., Hydrologic Unit 03100102, 6.3 mi south of State Highway 72, and 18 mi southeast of Sarasota. Owner: Sarasota County.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 240 ft, cased to 93 ft.

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

DATUM.--Land-surface datum is 24.00 ft above National Geodetic Vertical Datum of 1929 (levels by Sarasota County). Measuring point: Top of recorder shelter floor, 3.16 ft above land-surface datum.

PERIOD OF RECORD.--September 1987 to September 1993 (periodic); February 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 24.41 ft NGVD, May 11, 1992; lowest daily maximum, 12.98 ft NGVD, June 2, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.48	18.79	18.05	17.56	---	17.07	16.09	14.29	13.15	15.27	16.89	18.43
10	18.53	18.44	---	17.75	---	16.97	15.85	13.99	13.50	15.50	17.24	18.69
15	18.62	18.44	17.88	17.59	---	16.90	15.57	---	13.72	15.94	17.32	18.77
20	18.66	18.45	17.78	---	17.69	16.62	15.13	13.32	14.02	16.32	17.69	18.93
25	18.63	18.30	---	17.52	17.39	16.47	14.83	13.17	14.41	16.52	18.06	19.00
EOM	18.54	18.21	17.65	17.67	17.37	16.24	14.60	13.04	14.68	16.74	18.29	19.09
MAX	18.72	18.79	---	---	---	17.31	16.21	---	14.68	16.76	18.33	19.09

WELL NUMBER.--270901082193104. Mabry Carlton CW-2 (N5) NRSD Well near Sarasota, FL.

LOCATION.--Lat 27°09'01", long 82°19'31", in NW$^1/_4$NE$^1/_4$ sec.29, T.38 S., R.20 E., Hydrologic Unit 03100102, 6.3 mi south of State Highway 72, and 18 mi southeast of Sarasota. Owner: Sarasota County.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 45 ft, cased to 5 ft.

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

DATUM.--Land-surface datum is 24.00 ft above National Geodetic Vertical Datum of 1929 (levels by Sarasota County). Measuring point: Top of recorder shelter floor, 3.12 ft above land-surface datum.

PERIOD OF RECORD.--February 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 24.45 ft NGVD, July 18, 1995; lowest, 19.74 ft NGVD, June 2, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	23.31	24.05	22.42	23.08	---	22.47	21.66	20.45	20.94	23.83	23.06	23.34
10	22.94	23.63	---	22.86	---	22.12	21.45	20.27	21.55	23.26	23.77	23.82
15	23.67	23.32	23.23	22.43	---	23.14	21.21	20.08	21.58	23.92	23.64	23.76
20	23.13	23.06	22.71	22.33	22.59	22.38	21.10	19.87	23.38	23.60	23.82	24.19
25	23.18	22.85	22.50	23.81	22.40	22.03	20.86	20.44	23.54	22.96	23.90	23.76
EOM	22.66	22.59	22.55	23.42	22.34	21.85	20.75	19.87	23.03	23.02	23.65	23.84
MAX	23.81	24.05	---	23.82	---	23.14	21.81	20.66	23.57	23.92	24.04	24.19

SARASOTA COUNTY

WELL NUMBER.--270926082155101. Mabry Carlton CW-5 (14-FN) SWNN Well near Sarasota, FL.

LOCATION.--Lat 27°09'26", long 82°15'51", in $NE^1/_4SW^1/_4$ sec.24, T.38 S., R.20 E., Hydrologic Unit 03100102, 3.9 mi south of State Highway 72, and 20.5 mi southeast of Sarasota. Owner: Sarasota County.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 550 ft, cased to 500 ft.

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

DATUM.--Land-surface datum is 28.71 ft above National Geodetic Vertical Datum of 1929 (levels by Sarasota County). Measuring point: Top of recorder shelter floor, 15.76 ft above land-surface datum.

PERIOD OF RECORD.--September 1987 to September 1993 (periodic); November 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 41.15 ft NGVD, Sept. 12, 1991; lowest daily maximum, 21.97 ft NGVD, May 6, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	34.57	32.96	31.09	30.64	31.47	27.75	24.89	22.05	25.11	31.19	32.82	34.51
10	34.54	32.00	30.67	31.07	31.15	27.77	24.38	22.25	26.34	31.01	33.08	34.63
15	34.23	32.10	30.51	31.08	30.45	27.14	23.60	22.71	27.01	31.69	33.37	34.79
20	34.19	32.72	30.10	31.18	29.77	26.60	22.95	23.00	28.03	32.22	33.58	34.30
25	33.25	31.55	30.11	---	28.79	26.33	22.33	23.65	28.96	32.77	34.26	34.06
EOM	32.77	31.67	30.44	31.43	28.27	25.76	22.14	23.96	29.66	32.76	33.96	34.13
MAX	34.57	32.96	31.44	---	32.06	28.24	25.65	23.96	29.79	33.02	34.45	34.95

WELL NUMBER.--270926082155103. Mabry Carlton CW-5 (14-GN) NRSD Well near Sarasota, FL.

LOCATION.--Lat 27°09'26", long 82°15'51", in $NE^1/_4SW^1/_4$ sec.24, T.38 S., R.20 E., Hydrologic Unit 03100102, 3.9 mi south of State Highway 72, and 20.5 mi southeast of Sarasota. Owner: Sarasota County.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 42 ft, cased to 7 ft.

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

DATUM.--Land-surface datum is 28.69 ft above National Geodetic Vertical Datum of 1929 (levels by Sarasota County). Measuring point: Top of recorder shelter floor, 2.69 ft above land-surface datum.

PERIOD OF RECORD.--May 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 29.15 ft NGVD, Mar. 20, 1998; lowest, 23.94 ft NGVD, June 12, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	27.82	28.71	27.29	27.80	27.78	26.84	26.08	24.78	24.14	28.48	27.48	27.96
10	27.48	28.33	27.08	27.56	27.51	26.54	25.83	24.60	24.08	27.88	28.71	28.05
15	27.57	27.95	27.77	27.15	27.20	27.66	25.56	24.43	24.05	28.76	28.45	28.61
20	27.09	27.74	27.31	27.05	27.00	26.88	25.39	24.33	27.31	28.39	28.80	28.90
25	27.90	27.96	27.07	28.52	26.82	26.51	25.15	24.34	27.61	27.87	28.73	---
EOM	27.27	27.51	26.97	28.10	26.76	26.26	25.00	24.06	27.33	27.29	28.39	27.89
MAX	28.39	28.71	27.94	---	28.03	27.66	26.23	24.95	28.02	28.76	28.92	---

SARASOTA COUNTY

WELL NUMBER.--270928082172601. Mabry Carlton OM-41 SWNN Well near Sarasota, FL.

LOCATION.--Lat 27°09'28", long 82°17'26", in $NE^1/_4SE^1/_4$ sec.22, T.38 S., R.20 E., Hydrologic Unit 03100102, 4.3 mi south of State Highway 72, and 19.5 mi southeast of Sarasota. Owner: Sarasota County.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 750 ft, cased to 700 ft.

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

DATUM.--Land-surface datum is 31.04 ft above National Geodetic Vertical Datum of 1929 (levels by Sarasota County). Measuring point: Top of recorder shelter floor, 10.00 ft above land-surface datum.

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

PERIOD OF RECORD.--January 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 37.91 ft NGVD, Sept. 30, 1994; lowest, 19.40 ft NGVD, May 6, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	32.95	31.29	28.68	28.16	29.59	25.76	22.32	19.45	22.83	29.77	30.76	32.32
10	32.56	30.10	28.35	28.77	29.11	26.04	22.02	19.68	24.69	28.90	31.25	32.39
15	32.08	30.11	28.34	29.18	28.45	25.50	21.00	20.26	24.91	29.37	32.45	33.32
20	32.50	31.25	27.80	29.29	27.69	24.60	20.39	20.52	26.08	30.34	32.10	32.22
25	31.06	29.26	27.72	29.09	26.82	24.07	19.79	20.87	26.81	30.44	32.68	---
EOM	30.46	30.11	27.92	29.42	26.37	23.61	19.58	21.36	27.53	30.89	31.74	---
MAX	32.95	31.29	29.56	29.42	30.37	26.57	23.59	21.42	28.22	31.32	32.88	---

WELL NUMBER.--270932082195201. Mabry Carlton 26 NRSD Well near Sarasota, FL.

LOCATION.--Lat 27°09'32", long 82°19'52", in $NE^1/_4SW^1/_4$ sec.20, T.38 S., R.20 E., Hydrologic Unit 03100102, 5.7 mi south of State Highway 72, and 17.5 mi southeast of Sarasota. 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 11 ft, cased to 6 ft.

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

DATUM.--Land-surface datum is 22.00 ft above National Geodetic Vertical Datum of 1929 (levels by Sarasota County). Measuring point: Top of casing, 5.55 ft above land-surface datum.

PERIOD OF RECORD.--March 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 24.34 ft NGVD, July 18, 1995; lowest, 18.92 ft NGVD, June 2, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	22.71	23.75	21.71	23.03	22.69	21.46	20.58	19.35	19.57	23.42	22.84	22.20
10	22.25	23.42	21.55	22.93	22.33	21.10	20.34	19.33	19.92	22.11	23.46	23.23
15	22.60	22.89	23.08	22.01	21.89	22.07	20.09	19.23	20.08	23.71	23.09	23.46
20	21.81	22.57	22.25	21.85	21.60	21.32	19.94	19.09	21.68	22.88	23.50	23.90
25	22.54	22.24	21.96	23.63	21.42	20.94	19.73	19.14	22.41	21.83	23.66	23.67
EOM	21.73	21.94	21.93	23.13	21.36	20.79	19.55	19.00	21.68	22.28	23.27	23.74
MAX	23.64	23.75	23.33	23.68	23.04	22.12	20.75	19.49	22.45	23.71	23.76	23.90

CAL YR 1998 MAX 24.11
WTR YR 1999 MAX 23.90

SARASOTA COUNTY

WELL NUMBER.--270933082203601. Mabry Carlton 27 NRSD Well near Sarasota, FL.

LOCATION.--Lat 27°09'33", long 82°20'36", in $SW^1/_4NE^1/_4$ sec.19, T.38 S., R.20 E., Hydrologic Unit 03100102, 5.8 mi south of State Highway 72, and 17 mi southeast of Sarasota. 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 13 ft, cased to 8 ft.

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

DATUM.--Land-surface datum is 20.00 ft above National Geodetic Vertical Datum of 1929 (levels by Sarasota County). Measuring point: Top of recorder shelter floor, 1.33 ft above land-surface datum.

PERIOD OF RECORD.--March 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 19.91 ft NGVD, Sept. 7, 1995; lowest, 14.11 ft NGVD, June 1, 1995, July 11, 1998.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.02	18.58	16.35	17.28	17.22	16.75	16.31	15.25	15.37	18.31	17.24	17.08
10	17.14	18.23	16.18	17.23	17.06	16.43	16.08	15.13	16.26	17.24	17.59	17.74
15	17.13	17.82	17.46	16.61	16.84	17.70	15.89	14.94	15.90	18.45	17.31	17.12
20	16.70	17.03	16.75	16.45	16.76	16.80	15.79	14.72	17.04	17.67	18.10	18.67
25	17.20	16.75	16.48	18.42	16.60	16.47	15.60	14.68	17.32	16.87	18.25	18.00
EOM	---	16.54	16.50	17.69	16.56	16.69	15.43	14.42	16.56	17.07	17.68	18.27
MAX	---	---	17.80	18.49	17.60	17.70	16.58	15.39	17.54	18.45	18.47	18.67

WELL NUMBER.--270952082095901. Mabry Carlton Well 13 near Myakka City, FL.

LOCATION.--Lat 27°09'52", long 82°09'59", in $SE^1/_4SW^1/_4$ 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, 41.09 ft NGVD, Oct. 14, 15, 1995; lowest, 28.18 ft NGVD, May 24, 1984.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	38.76	37.78	36.90	---	36.81	35.08	33.69	31.22	---	36.43	37.79	39.34
10	38.74	37.77	36.65	36.28	36.77	34.94	33.15	31.15	32.78	36.77	37.98	39.32
15	38.57	37.89	36.30	36.31	36.42	34.65	32.65	31.51	33.24	37.04	38.23	39.26
20	38.43	37.65	36.14	36.27	36.25	34.55	31.94	31.70	33.98	37.52	38.51	39.09
25	38.08	37.50	36.09	36.26	35.64	34.42	31.59	31.87	34.91	37.72	39.15	39.24
EOM	37.76	37.11	36.03	36.77	35.46	34.11	31.21	32.13	35.81	37.84	39.35	39.44
MAX	38.86	37.89	37.09	---	36.86	35.37	34.05	32.13	---	37.86	39.44	39.44

CAL YR 1998 MAX 40.25

SARASOTA COUNTY

WELL NUMBER.--270959082203001. ROMP 19 WLAM Well near Sarasota, FL.

LOCATION.--Lat 27°09'59", long 82°20'30", in $SW^1/_4SE^1/_4$ 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, 12.71 ft NGVD, May 7, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	27.31	25.24	22.97	23.20	23.56	19.42	16.22	12.94	17.41	24.27	24.59	27.87
10	27.21	23.57	22.65	22.62	22.78	19.60	15.38	12.99	19.26	23.31	25.95	28.24
15	26.61	24.18	23.71	22.85	22.27	18.83	14.57	13.62	19.71	---	26.73	28.18
20	26.66	25.63	22.79	22.82	21.09	18.21	14.17	13.36	21.26	24.24	27.06	26.62
25	25.67	23.31	22.62	23.82	20.31	17.41	13.46	15.06	22.26	24.94	27.81	26.96
EOM	23.75	24.41	22.15	23.78	19.56	17.04	13.07	14.68	22.33	24.76	27.29	27.05
MAX	27.31	25.63	23.94	23.93	24.18	20.33	16.87	15.06	22.33	---	27.90	28.42

WELL NUMBER.--270959082203002. ROMP 19 WUAM Well near Sarasota, FL.

LOCATION.--Lat 27°09'59", long 82°20'30", in $SW^1/_4SE^1/_4$ 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.--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, 12.31 ft (corrected) above land-surface datum.

PERIOD OF RECORD.--July 1981 to September 1991; October 1991 to September 1993 (periodic); October 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 19.70 ft NGVD, estimated, Sept. 3, 1988; lowest, 10.24 ft NGVD, June 7, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.10	15.70	15.20	14.73	14.83	14.53	13.46	11.71	10.27	11.38	13.12	14.65
10	15.24	15.43	15.08	14.85	14.86	14.43	13.24	11.44	10.33	11.63	13.25	14.84
15	15.29	15.47	15.05	14.80	14.81	14.38	13.00	11.12	10.38	---	13.47	15.02
20	15.30	15.39	14.93	14.70	14.85	14.06	12.57	10.82	10.63	12.30	13.82	15.32
25	15.33	15.35	14.90	14.81	14.70	13.89	12.32	10.60	10.86	12.58	14.19	15.32
EOM	15.37	15.26	14.83	14.85	14.76	13.69	12.07	10.33	11.03	12.89	14.44	15.46
MAX	15.39	15.70	15.25	14.90	14.90	14.72	13.66	11.99	11.03	---	14.44	15.46

SARASOTA COUNTY

WELL NUMBER.--270959082203003. ROMP 19 WS Well near Sarasota, FL.

LOCATION.--Lat 27°09'59", long 82°20'30", in $SW^1/_4SE^1/_4$ 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, 19.86 ft NGVD, July 18, 1995; lowest, 13.56 ft NGVD, June 12, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.12	19.25	17.05	17.74	17.99	17.11	16.40	15.24	15.23	18.03	18.37	17.90
10	17.92	18.66	16.86	17.63	17.77	16.75	16.18	15.10	15.75	17.12	18.62	18.51
15	17.85	18.09	17.82	17.14	17.48	17.58	15.95	14.94	15.57	---	18.49	17.85
20	17.36	17.78	17.28	16.95	17.32	17.02	15.81	14.77	16.76	17.77	19.18	19.47
25	17.75	17.55	17.03	19.07	17.10	16.64	15.60	14.75	16.79	17.20	19.21	18.76
EOM	17.19	17.27	17.00	18.36	16.99	16.66	15.42	14.53	16.66	17.67	18.69	19.07
MAX	18.73	19.25	17.88	19.07	18.28	17.58	16.59	15.38	17.03	---	19.30	19.47

WELL NUMBER.--271001082190701. Mabry Carlton 4-B NRSD Well near Sarasota, FL.

LOCATION.--Lat 27°10'01", long 82°19'07", in $SW^1/_4SW^1/_4$ sec.16, T.38 S., R.20 E., Hydrologic Unit 03100102, 5.0 mi south of State Highway 72, and 17.5 mi southeast of Sarasota. Owner: Sarasota County.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 50 ft, cased to 50 ft, screened interval 10-20 ft, 30-35 ft, and 45-50 ft.

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

DATUM.--Land-surface datum is 25.68 ft above National Geodetic Vertical Datum of 1929 (levels by Sarasota County). Measuring point: Top of recorder shelter floor, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--January 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 26.28 ft NGVD, July 18, 1995; lowest, 20.66 ft NGVD, June 2, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	25.08	25.59	24.32	24.82	24.76	23.80	22.77	21.30	21.08	25.32	25.10	25.07
10	24.75	25.27	24.16	24.68	24.54	23.46	22.47	21.25	21.24	24.74	25.46	25.13
15	25.06	24.98	24.92	24.30	24.27	24.30	22.19	21.00	21.20	25.48	25.29	25.29
20	24.64	25.07	24.50	24.19	24.07	23.59	22.01	20.85	24.42	25.18	25.53	25.72
25	24.63	24.70	24.32	25.49	23.85	23.20	21.74	21.09	25.24	24.69	25.69	25.55
EOM	24.27	24.48	24.33	25.10	23.76	23.04	21.50	20.71	24.70	24.76	25.43	25.48
MAX	25.40	25.59	25.11	25.53	25.02	24.30	22.99	21.46	25.25	25.48	25.80	25.74

CAL YR 1998 MAX 26.02
WTR YR 1999 MAX 25.80

SARASOTA COUNTY

WELL NUMBER.--271017082123101. Mabry Carlton CW-7 (20F) SWNN Well near Sarasota, FL.

LOCATION.--Lat 27°10'17", long 82°12'31", in $NW^1/_4SE^1/_4$ sec.16, T.38 S., R.21 E., Hydrologic Unit 03100102, 1.6 mi south of State Highway 72, and 23 mi southwest of Sarasota. Owner: Sarasota County.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 629 ft, cased to 500 ft.

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

DATUM.--Land-surface datum is 30.78 ft above National Geodetic Vertical Datum of 1929 (levels by Sarasota County). Measuring point: Top of recorder shelter floor, 18.54 ft above land-surface datum.

PERIOD OF RECORD.--September 1987 to September 1993 (periodic); December 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 41.18 ft NGVD, Oct. 10, 1994; lowest measured, 23.85 ft NGVD, May 22, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	37.80	36.20	34.95	34.30	35.39	31.92	29.20	26.21	28.95	33.39	---	37.79
10	37.77	35.77	34.52	34.44	35.27	31.75	28.38	26.28	29.92	34.05	36.55	37.85
15	37.56	36.06	34.11	34.76	34.49	31.02	27.65	26.93	30.93	34.60	36.84	37.87
20	37.45	35.87	33.78	34.73	33.96	30.92	---	27.55	31.86	34.83	---	37.58
25	36.90	---	33.88	34.62	32.94	30.71	26.34	27.86	---	35.42	---	37.61
EOM	36.45	---	34.18	35.19	32.48	30.03	25.87	28.43	32.63	35.62	37.65	37.85
MAX	37.82	---	---	35.19	35.44	32.37	---	---	---	35.62	---	37.87

WELL NUMBER.--271017082123102. Mabry Carlton CW-7 (20E) HTRN Well near Sarasota, FL.

LOCATION.--Lat 27°10'17", long 82°12'31", in $NW^1/_4SE^1/_4$ sec.16, T.38 S., R.21 E., Hydrologic Unit 03100102, 1.6 mi south of State Highway 72, and 23 mi southwest of Sarasota. Owner: Sarasota County.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 14 in., depth 250 ft, cased to 100 ft.

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

DATUM.--Land-surface datum is 30.78 ft above National Geodetic Vertical Datum of 1929 (levels by Sarasota County). Measuring point: Top of recorder shelter floor, 16.15 ft above land-surface datum.

PERIOD OF RECORD.--December 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 39.61 ft NGVD, Oct. 13, 1994; lowest, 24.16 ft NGVD, May 3, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	35.93	34.67	33.34	32.48	33.48	30.27	27.71	24.25	26.81	31.86	34.39	---
10	36.03	34.03	32.95	32.78	33.49	30.00	26.96	24.37	27.66	---	34.54	---
15	35.91	34.22	32.46	32.91	32.87	29.53	26.20	24.70	28.63	33.19	34.81	---
20	35.72	34.18	32.13	32.91	32.40	29.05	25.27	25.36	29.52	33.65	---	36.04
25	35.29	33.95	32.17	32.92	31.43	28.96	24.86	25.64	30.58	34.15	---	35.96
EOM	34.87	33.49	32.36	33.23	30.98	28.36	24.43	26.18	31.41	34.42	---	36.11
MAX	36.05	34.78	33.45	33.23	33.59	30.85	28.29	26.18	31.41	---	---	---

SARASOTA COUNTY

WELL NUMBER.--271017082123103. Mabry Carlton CW-7 (20) NRSD Well near Sarasota, FL.

LOCATION.--Lat 27°10'17", long 82°12'31", in $NW^1/_4SE^1/_4$ sec.16, T.38 S., R.21 E., Hydrologic Unit 03100102, 1.6 mi south of State Highway 72, and 23 mi southeast of Sarasota. Owner: Sarasota County.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 46.5 ft, cased to 6.5 ft.

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

DATUM.--Land-surface datum is 30.78 ft above National Geodetic Vertical Datum of 1929 (levels by Sarasota County). Measuring point: Top of recorder shelter floor, 3.27 ft above land-surface datum.

PERIOD OF RECORD.--December 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 30.70 ft NGVD, Mar. 21, 1998; lowest, 24.75 ft NGVD, June 11, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	29.32	30.05	28.13	28.31	28.26	27.35	26.81	25.48	24.95	30.11	28.60	---
10	29.23	29.65	27.91	28.03	28.00	27.09	26.55	25.44	24.82	29.95	29.91	---
15	29.03	29.16	28.41	27.71	27.75	28.02	26.28	25.56	25.88	30.23	29.80	---
20	28.52	28.85	28.00	27.58	27.58	27.58	26.11	25.42	28.82	29.89	---	30.22
25	28.48	28.63	27.78	29.28	27.40	27.21	25.85	25.60	29.90	29.09	---	30.14
EOM	28.06	28.34	27.73	28.56	27.32	27.07	25.69	25.08	29.86	29.24	---	30.13
MAX	29.88	30.06	28.48	29.28	28.49	28.02	27.00	25.77	30.12	30.24	---	---

WELL NUMBER.--271100082172701. Mabry Carlton CW-3 (6F) SWNN Well near Sarasota, FL.

LOCATION.--Lat 27°11'00", long 82°17'27", in $SW^1/_4SE^1/_4$ sec.10, T.38 S., R.20 E., Hydrologic Unit 03100102, 2.6 mi south of State Highway 72, and 18.5 mi southeast of Sarasota. Owner: Sarasota County.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 551 ft, cased to 500 ft.

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

DATUM.--Land-surface datum is 30.00 ft above National Geodetic Vertical Datum of 1929 (levels by Sarasota County). Measuring point: Top of recorder shelter floor, 12.51 ft above land-surface datum.

PERIOD OF RECORD.--September 1987 to September 1993 (periodic); January 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 37.18 ft NGVD, Oct. 10, 1994; lowest, 16.87 ft NGVD, May 6, 7, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	32.02	---	27.66	27.07	28.69	24.27	20.56	16.92	20.93	28.44	30.48	31.74
10	31.83	---	27.27	27.79	28.31	24.34	19.98	17.10	22.77	27.99	31.15	31.73
15	31.28	---	27.13	28.20	27.52	23.59	18.94	17.68	23.39	28.44	---	32.37
20	31.55	---	26.59	28.17	26.62	22.98	18.07	17.94	24.50	29.49	---	31.32
25	30.18	---	26.58	28.01	25.51	22.52	17.45	18.93	25.50	29.80	---	30.93
EOM	29.50	---	26.81	28.52	24.90	21.93	17.11	19.45	26.42	30.43	31.01	31.08
MAX	---	---	28.32	28.52	29.11	24.86	21.84	19.51	26.75	---	---	32.53

SARASOTA COUNTY

WELL NUMBER.--271100082172702. Mabry Carlton CW-3 (6E) HTRN Well near Sarasota, FL.

LOCATION.--Lat 27°11'00", long 82°17'27", in $SW^1/_4SE^1/_4$ sec.10, T.38 S., R.20 E., Hydrologic Unit 03100102, 2.6 mi south of State Highway 72, and 18.5 mi southeast of Sarasota. Owner: Sarasota County.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 240 ft, cased to 60 ft.

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

DATUM.--Land-surface datum is 30.00 ft above National Geodetic Vertical Datum of 1929 (levels by Sarasota County). Measuring point: Top of recorder shelter floor, 3.02 ft above land-surface datum.

PERIOD OF RECORD.--September 1987 to September 1993 (periodic); January 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 30.33 ft NGVD, Oct. 2, 3, 1994; lowest, 20.69 ft NGVD, May 20, 21, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	27.85	27.24	26.42	25.93	26.64	24.73	22.83	20.90	21.37	25.41	26.49	28.07
10	27.69	27.16	26.07	26.16	26.37	24.54	22.52	20.78	21.60	25.31	27.02	28.00
15	27.65	27.06	26.27	26.17	26.33	24.33	22.07	20.75	21.78	26.06	27.20	28.24
20	27.43	27.30	25.95	26.02	25.89	24.03	21.66	20.69	23.11	26.44	27.99	28.14
25	27.16	27.18	25.74	26.61	25.36	23.72	21.31	20.76	23.71	26.53	28.39	28.02
EOM	26.71	26.99	25.68	26.81	25.13	23.39	21.10	21.29	24.19	26.50	28.05	28.08
MAX	28.03	27.39	26.70	26.81	26.85	25.05	23.34	21.31	24.22	---	28.45	28.42

WELL NUMBER.--271100082172703. Mabry Carlton CW-3 (6G) NRSD Well near Sarasota, FL.

LOCATION.--Lat 27°11'00", long 82°17'27", in $SW^1/_4SE^1/_4$ sec.10, T.38 S., R.20 E., Hydrologic Unit 03100102, 2.6 mi south of State Highway 72, and 18.5 mi southeast of Sarasota. Owner: Sarasota County.

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

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 55 ft, cased to 55 ft, screened interval 5 to 35 ft, and 45 to 55 ft.

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

DATUM.--Land-surface datum is 30.00 ft above National Geodetic Vertical Datum of 1929 (levels by Sarasota County). Measuring point: Top of recorder shelter floor, 3.49 ft above land-surface datum.

PERIOD OF RECORD.--May 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 30.45 ft NGVD, Sept. 27, 1997; lowest, 24.26 ft NGVD, June 9, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	29.16	29.98	27.93	28.38	28.46	26.98	26.12	25.09	24.35	29.37	28.94	29.48
10	28.89	29.71	27.62	28.20	28.06	26.70	25.94	24.91	---	28.08	29.79	29.50
15	29.53	29.24	28.57	27.70	27.63	27.19	25.72	24.81	24.36	29.83	29.54	29.84
20	28.62	---	27.99	27.49	27.34	26.79	25.57	24.71	26.84	29.74	30.11	30.18
25	28.55	---	27.65	29.57	27.09	26.43	25.40	24.60	27.37	29.20	30.14	29.97
EOM	27.95	---	27.57	29.00	26.98	26.31	25.23	24.45	27.31	28.89	29.95	29.91
MAX	29.78	---	28.66	29.58	28.89	27.19	26.27	25.20	---	---	30.29	30.20

SARASOTA COUNTY

WELL NUMBER.--271118082285301. Osprey Well 9 near Osprey, FL.

LOCATION.--Lat 27°11'18", long 82°28'53", in $SW^1/_4NW^1/_4$ 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, 0.36 ft NGVD, May 27, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.40	6.88	6.59	6.79	7.61	5.53	3.19	1.77	1.93	6.60	6.68	10.13
10	9.56	7.52	6.03	7.18	7.38	4.95	2.97	1.43	2.52	7.33	7.53	10.63
15	8.66	7.40	6.67	7.39	6.88	4.69	2.41	1.10	2.73	7.22	---	10.55
20	8.31	7.13	6.57	7.03	6.87	4.59	2.55	.52	3.83	---	---	10.66
25	7.64	6.72	6.46	7.47	5.90	3.86	---	.61	4.77	---	9.94	---
EOM	6.98	6.57	6.38	7.64	5.81	3.65	2.06	.93	5.15	7.32	9.82	11.05
MAX	9.68	7.56	6.77	7.78	7.62	5.61	---	2.08	5.15	---	---	---

SARASOTA COUNTY

WELL NUMBER.--271134082092201. Big Slough Deep Well near Arcadia, FL.

LOCATION.--Lat 27°11'34", long 82°09'22", in $NE^1/_4NE^1/_4$ 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, 36.12 ft NGVD, Oct. 6, 7, 1995; lowest, 28.74 ft NGVD, June 15, 16, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	34.41	33.68	33.13	32.20	32.63	31.79	31.00	29.23	28.81	31.06	32.98	34.54
10	34.42	33.66	32.95	32.32	32.66	31.63	30.74	29.01	28.89	31.42	33.17	34.49
15	34.35	33.74	32.78	32.27	32.53	31.51	30.41	28.90	28.99	31.86	33.35	34.39
20	34.17	33.67	32.57	32.21	32.48	31.34	30.07	28.86	29.37	32.19	33.86	34.35
25	33.93	33.56	32.46	32.33	32.16	31.30	29.78	28.84	29.88	32.59	34.64	34.42
EOM	33.66	33.30	32.25	32.54	32.04	31.13	29.52	28.81	30.52	32.89	34.46	34.62
MAX	34.47	33.75	33.24	32.54	32.66	32.03	31.12	29.46	30.52	32.89	34.64	34.62

CAL YR 1998 MAX 35.83
WTR YR 1999 MAX 34.64

WELL NUMBER.--271134082092202. Big Slough Shallow Well near Arcadia, FL.

LOCATION.--Lat 27°11'34", long 82°09'22", in $NE^1/_4NE^1/_4$ 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 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	31.02	30.72	29.26	28.95	29.31	28.47	28.23	26.88	25.97	29.40	29.41	31.15
10	30.99	30.87	29.03	28.96	29.07	28.32	28.01	26.68	25.91	28.93	30.06	30.72
15	30.58	30.40	29.03	28.79	28.89	28.59	27.70	26.54	25.83	29.05	30.12	30.48
20	30.18	30.00	29.00	28.68	28.74	28.70	27.53	26.40	26.95	30.16	31.99	31.16
25	29.83	29.73	28.87	29.69	28.63	28.51	27.29	26.26	27.47	29.76	33.60	31.26
EOM	29.46	29.50	28.74	29.58	28.56	28.50	27.09	26.08	29.15	29.57	31.96	31.58
MAX	31.97	31.09	29.45	29.80	29.54	28.71	28.46	27.04	29.15	30.22	33.61	31.73

WTR YR 1999 MAX 33.61

SARASOTA COUNTY

WELL NUMBER.--271207082154301. Mabry Carlton NRSD Well 46 near Sarasota, FL.

LOCATION.--Lat 27°12'11", long 82°15'43", in $SE^1/_4NW^1/_4$ sec.1, T.38 S., R.20 E., Hydrologic Unit 03100102, 0.6 mi south of State Highway 72, and 19.2 mi southeast of Sarasota. 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 24 ft, cased to 19 ft.

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

DATUM.--Land-surface datum is 31.00 ft above National Geodetic Vertical Datum of 1929 (levels by Sarasota County). Measuring point: Top of flange, 3.49 ft above land-surface datum.

PERIOD OF RECORD.--May 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 32.55 ft NGVD, Apr. 3, 1996; lowest, 26.96 ft NGVD, June 11, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	30.93	31.93	30.25	30.98	30.70	29.70	29.00	27.66	27.11	31.64	31.73	31.04
10	31.19	31.48	30.09	30.77	30.42	29.38	28.70	27.45	27.02	31.13	31.86	31.00
15	31.50	31.11	31.06	30.33	30.10	30.35	28.38	27.61	27.46	31.87	31.47	31.48
20	30.89	30.86	30.53	30.23	29.90	29.62	28.35	27.91	31.17	31.70	31.76	31.90
25	31.38	30.74	30.28	31.60	29.74	29.22	28.01	27.71	31.35	31.32	31.87	31.66
EOM	30.78	30.43	30.25	31.05	29.66	29.23	27.90	27.22	30.95	31.55	31.58	31.69
MAX	31.74	31.93	31.30	31.66	30.98	30.36	29.23	27.95	31.50	31.87	31.93	31.90

CAL YR 1998 MAX 32.18
WTR YR 1999 MAX 31.93

WELL NUMBER.--271227082084801. Mabry Carlton Well No. 6 near Myakka City, FL.

LOCATION.--Lat 27°12'27", long 82°08'48", in $NW^1/_4NE^1/_4$ 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, Oct. 3, 5, 1994; lowest, 22.19 ft NGVD, Apr. 29, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	37.76	35.58	33.62	33.72	34.78	30.28	26.72	23.34	---	34.41	36.26	37.95
10	37.24	35.63	33.18	33.32	34.26	29.95	25.07	23.64	29.08	35.07	36.68	37.87
15	37.29	35.55	32.00	33.83	33.01	28.85	24.57	25.21	30.34	35.70	36.84	37.70
20	37.02	35.23	32.43	33.67	32.23	29.51	23.68	25.40	31.49	36.04	37.14	37.46
25	36.07	34.86	32.59	33.79	30.52	28.33	22.70	26.07	32.62	36.29	37.83	37.66
EOM	35.41	34.28	33.25	34.85	30.26	27.82	22.29	26.73	33.60	36.34	37.92	38.05
MAX	37.90	35.69	34.53	34.85	34.93	30.48	27.21	26.73	---	36.45	37.94	---

CAL YR 1998 MAX 40.87

SARASOTA COUNTY

WELL NUMBER.--271601082330501. ROMP TR 6-1 Hawthorn Well near Sarasota, FL.

LOCATION.--Lat 27°16'01", long 82°33'05", in $NW^1/_4NE^1/_4$ 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 point: Valve on top of 2 in. extension, 2.40 ft above land-surface datum.

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, 0.27 ft below NGVD, May 12, 1999.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)	DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)
DEC			JUL		
07...	1440	5.86	13...	1137	4.61
JAN			AUG		
25...	0920	6.20	24...	1437	8.13
MAR			SEP		
29...	1240	4.06	14...	1059	6.69
MAY					
11...	1400	1.33			
12...	1235	-.27			

WELL NUMBER.--271619082240201. Florida Cities Test Well 1 near Sarasota, FL.

LOCATION.--Lat 27°16'19", long 82°24'02", in $SE^1/_4SE^1/_4$ sec.9, T.37 S., R.19 E., Hydrologic Unit 03l00201, 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 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.09	---	8.94	9.42	---	6.29	-.77	-6.01	-1.84	8.84	8.35	13.90
10	13.90	---	7.12	9.75	---	3.99	-2.94	-5.90	-.06	9.15	10.96	14.97
15	---	---	9.07	---	---	5.14	-4.39	-7.77	-.59	8.45	12.43	14.13
20	---	9.37	8.40	---	8.30	4.50	-4.03	-8.34	2.90	9.71	13.92	14.61
25	---	8.01	8.74	---	6.82	1.97	-5.18	-5.67	5.20	10.07	14.07	15.09
EOM	---	8.62	8.00	---	5.77	.18	-4.30	-5.20	5.42	8.80	13.76	14.51
MAX	---	---	9.29	---	---	6.29	.89	-4.27	6.52	10.57	14.68	15.16

SARASOTA COUNTY

WELL NUMBER.--271938082251801. Sarasota Well 9 near Sarasota, FL.

LOCATION.--Lat 27°19'38", long 82°25'18", in $SW^1/_4SE^1/_4$ 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 (periodic); 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 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	25.52	20.61	19.51	19.81	21.67	14.68	8.80	4.13	9.99	20.45	23.16	25.65
10	25.34	21.01	18.43	20.44	21.16	13.37	6.97	4.38	12.30	21.41	23.98	25.68
15	24.52	21.34	18.53	20.53	20.08	12.22	5.54	4.45	13.77	22.47	24.55	25.64
20	23.36	20.47	18.39	20.25	18.54	11.98	5.57	---	15.67	23.23	25.22	25.10
25	22.64	19.83	18.27	20.50	16.92	11.00	4.82	---	17.45	23.67	25.90	25.23
EOM	21.29	19.99	19.15	21.14	15.86	9.76	3.86	---	18.95	23.29	26.13	25.45
MAX	25.59	21.38	19.92	21.16	21.68	15.33	9.55	---	---	23.77	26.17	25.98

WELL NUMBER.--272020082194801. Verna T Well 0-4 near Verna, FL.

LOCATION.--Lat 27°20'20", long 82°19'48", in $NE^1/_4NW^1/_4$ 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, 28.75 ft NGVD, Feb. 17, 1998; lowest, 6.04 ft below NGVD, May 28, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	22.71	16.55	15.31	16.04	17.88	8.47	1.63	-3.75	4.15	16.12	20.41	---
10	22.20	16.81	13.80	16.29	17.36	7.70	.29	-4.02	6.75	17.47	21.03	---
15	21.31	17.17	13.83	16.81	---	6.07	---	-2.56	8.84	18.81	21.71	---
20	20.34	---	13.98	16.13	---	5.84	-2.79	-1.40	10.81	19.87	22.39	---
25	19.15	15.84	14.06	16.24	---	4.69	-3.19	.09	12.76	20.02	23.06	---
EOM	17.30	15.85	15.02	17.50	---	3.23	-4.08	1.75	14.53	19.98	23.54	---
MAX	22.74	---	15.88	17.50	---	9.99	---	1.75	14.53	20.30	23.54	---

SARASOTA COUNTY

WELL NUMBER.--272127082323801. City of Sarasota 23rd and Coconut Well near Sarasota, FL.

LOCATION.--Lat 27°21'27", long 82°32'38" in $NW^1/_4NW^1/_4$ 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 120 FLRD.

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, 3.10 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, 11.56 ft NGVD, Feb. 2, 1999; lowest, 7.89 ft below NGVD, May 17, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	3.56	2.47	---	-.75	.69	-1.83	-5.04	-3.55	-.73	4.78	5.53	3.17
10	3.85	2.11	---	-.25	1.54	-2.57	-5.85	-3.47	6.41	5.08	2.72	3.40
15	5.19	1.91	---	-.60	3.55	-3.03	-4.63	-3.40	10.17	5.60	2.86	3.37
20	2.42	1.52	-1.02	-.69	1.30	-3.56	-6.77	-3.21	2.44	6.02	2.89	6.74
25	2.31	1.06	-.72	-.40	4.71	-3.86	-7.41	-2.81	3.56	5.98	3.29	7.42
EOM	1.85	---	-.69	-.12	-.33	-.64	-7.62	-2.28	3.82	5.64	3.30	4.32
MAX	5.25	---	---	3.12	11.56	-.22	-1.37	-2.28	10.49	10.00	5.62	8.16

WELL NUMBER.--272129082330202. City of Sarasota Hickory Avenue Well near Sarasota, FL.

LOCATION.--Lat 27°21'29", long 82°33'02", in $NE^1/_4NE^1/_4$ 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 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.45	10.90	10.15	10.20	11.42	8.95	6.02	5.59	8.10	13.25	14.17	12.46
10	12.39	10.63	9.69	10.68	10.44	8.30	5.44	5.76	10.92	13.66	12.01	12.74
15	13.18	10.53	9.69	10.60	11.39	7.93	5.38	5.91	14.60	14.14	12.13	12.82
20	11.39	10.15	9.82	10.46	10.08	7.51	4.76	5.93	10.89	14.64	12.18	16.58
25	10.92	9.76	9.97	10.50	11.20	7.22	4.39	6.32	11.70	14.57	12.59	15.00
EOM	10.59	9.65	10.17	10.95	8.77	8.03	4.23	6.90	12.42	14.28	12.62	12.82
MAX	13.20	12.40	10.46	11.84	17.13	9.35	7.55	6.90	14.87	14.66	14.25	17.45

WTR YR 1999 MAX 17.45

SARASOTA COUNTY

WELL NUMBER.--272316082302601. Sarasota County Test Well No. 1 near Sarasota, FL.

LOCATION.--Lat 27°23'16", long 82°30'26", in $NE^1/_4NW^1/_4$ 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, 23.39 ft NGVD, Oct. 3, 1994; lowest, 2.95 ft below NGVD, May 18, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	20.20	16.22	14.72	16.27	14.08	9.00	4.39	4.62	---	---	18.78	20.37
10	20.13	16.71	11.34	13.30	17.70	8.18	2.59	4.53	---	17.87	19.38	20.57
15	19.07	16.41	11.25	13.64	16.68	7.17	5.01	4.77	---	18.52	19.69	20.71
20	14.84	12.82	11.33	16.14	15.66	7.08	5.14	5.32	---	19.09	20.09	20.19
25	17.51	12.32	11.51	13.29	13.87	---	5.08	6.17	---	19.29	20.63	20.61
EOM	16.65	12.35	11.98	14.11	10.28	5.15	4.25	---	---	18.85	20.71	20.62
MAX	20.44	16.80	14.72	16.69	17.81	---	5.19	---	---	---	20.83	20.72

WELL NUMBER.--272317082290502. Sarasota County Test Well 6A near Sarasota, FL.

LOCATION.--Lat 27°23'17", long 82°29'05", in $NE^1/_4NE^1/_4$ 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: Sarasota County.

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, 21.39 ft NGVD, Oct. 3, 1994; lowest, 14.52 ft below NGVD, May 18, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	17.75	12.43	10.76	12.78	14.14	---	-6.79	-.94	4.21	13.81	15.96	17.98
10	17.70	13.25	9.46	11.61	14.28	---	-8.00	-1.07	6.60	14.72	16.69	17.99
15	16.46	12.41	9.60	11.96	13.08	---	-.73	-.82	8.08	15.61	17.15	18.10
20	15.28	11.21	9.50	12.38	11.81	-3.27	-.19	-.12	9.24	16.24	17.59	17.12
25	14.36	10.54	9.78	11.67	9.81	-4.39	-.22	.96	11.29	16.33	18.14	17.88
EOM	13.11	10.84	10.53	12.68	.76	-5.70	-1.24	2.04	12.60	15.92	18.27	17.97
MAX	17.85	13.32	10.76	13.20	14.61	---	-.04	2.04	12.60	16.51	18.38	18.17

SARASOTA COUNTY

STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (FEET) (72020)
265652082185801	ENGLEWOOD WELL 150 NEAR ENGLEWOOD FL	05-12-99	5.52
		09-13-99	8.84
265710082205101	ENGLEWOOD WD RIVER 2 NEAR ENGLEWOOD FL	05-12-99	6.93
		09-13-99	10.01
265712082205701	ENGLEWOOD WATER DT R-2 NEAR ENGLEWOOD FL	05-12-99	.45
		09-13-99	4.28
265809082194001	ENGLEWOOD WELL TW 6 NR ENGLEWOOD FL	05-12-99	3.72
		09-13-99	7.37
270036082213401	ENGLEWOOD TEST C10 NR ENGLEWOOD FL	05-12-99	7.01
		09-13-99	11.21
270058082152502	N PORT ON SITE MON WELL NEAR NORTH PORT FL	05-12-99	22.70
		09-13-99	27.02
270058082152503	N PORT ONSITE SH MONITOR WELL NEAR NORTH PORT FL	05-12-99	20.30
		09-13-99	24.60
270106082214101	ENGLEWOOD DEEP ZONE 3 NEAR ENGLEWOOD FL	05-12-99	9.50
		09-13-99	13.71
270406082220102	PLANTATION SUWANNEE WELL NEAR VENICE FL	05-12-99	19.17
		09-14-99	24.70
270406082220103	PLANTATION UPPER HAWTHORN WELL NEAR VENICE FL	05-12-99	1.03
		09-14-99	5.96
270406082220104	PLANTATION TMIM WELL NEAR VENICE FL	05-12-99	-.12
		09-14-99	4.55
270420082230502	VENICE GARDENS SUWANNEE WELL NEAR VENICE FL	05-12-99	18.01
		09-14-99	23.71
270420082230503	VENICE GARDENS HAWTHORN WELL NEAR VENICE FL	05-11-99	13.63
		09-14-99	20.80
270432082085701	ROMP 9 SUWANNEE WELL NEAR NORTH PORT FL	05-12-99	36.22
		09-13-99	42.92
270432082085705	ROMP 9 SURFICIAL NEAR NORTH PORT FL	05-12-99	15.58
		09-13-99	17.14
270432082085706	ROMP 9 UPPER INTERMEDIATE NEAR NORTH PORT FL	05-11-99	18.55
		09-13-99	21.60
270432082085708	ROMP 9 AVON PARK NEAR NORTH PORT FL	05-12-99	37.79
		09-13-99	43.51
270432082085709	ROMP 9 LOWER INTERMEDIATE NEAR NORTH PORT FL	09-13-99	45.28
270432082085710	ROMP 9 MIDDLE INTERMEDIATE NEAR NORTH PORT FL	05-12-99	26.59
		09-13-99	31.22

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1998 TO SEPTEMBER 1999

SARASOTA COUNTY

STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (FEET) (72020)
270542082261801	VENICE WELL 35 NEAR VENICE FL	05-11-99	2.55
		09-14-99	5.54
270808082270502	ROMP TR5-1 SUWANNEE WELL AT LAUREL FL	05-11-99	14.59
		09-14-99	20.62
270808082270503	ROMP TR5-1 HAWTHORN WELL AT LAUREL FL	05-11-99	2.68
		09-14-99	11.25
270840082225101	HENRY RANCH WELL 3 NEAR VENICE FL	05-12-99	5.05
		09-13-99	10.05
270919082234202	ROMP TR5-2 UPPER HAWTHORN MONITOR NEAR LAUREL FL	05-12-99	6.15
		09-13-99	11.13
270919082234203	ROMP TR5-2 LOWER HAWTHORN MONITOR NEAR LAUREL FL	05-12-99	14.35
		09-13-99	25.45
270919082234205	ROMP TR5-2 SUWANNEE MONITOR NEAR LAUREL FL	05-12-99	16.05
		09-13-99	27.37
271021082151603	ROMP 19 ES WELL NEAR SARASOTA FL	06-30-99	30.47
		08-24-99	31.30
271035082285901	SOUTHBAY UTILITIES DEEP WELL NEAR OSPREY FL	05-11-99	8.36
		09-14-99	15.14
271137082074801	SWFWMD R-18-1 FL	05-11-99	31.00
		09-14-99	43.52
271137082284501	ROMP 20 SUWANNEE OB-3 WELL NEAR OSPREY FL	09-14-99	23.81
271137082284502	ROMP 20 HAWTHORN AT OSPREY FL	05-11-99	8.05
		09-14-99	19.90
271137082284503	ROMP TR-20 UPPER HAWTHORN WELL AT OSPREY FL	05-11-99	-9.85
		09-14-99	1.69
271717082332601	MARTIN D WELL AT SIESTA KEY FL	05-11-99	7.75
		09-14-99	16.35
271757082241301	BEE RIDGE WELL 15 NEAR SARASOTA FL	05-11-99	1.25
		09-14-99	23.32
271813082201301	ROMP 22 AVON PARK WELL NEAR UTOPIA FL	05-11-99	-2.01
		09-14-99	22.45
271813082201302	ROMP 22 SUWANNEE WELL NEAR UTOPIA FL	05-11-99	-.20
		09-14-99	24.13
271813082201303	ROMP 22 LOW INTERMEDIATE WELL NEAR FRUITVILLE FL	05-11-99	-.05
		09-14-99	24.20
271813082201304	ROMP 22 UPPER INTERMEDIATE WELL NEAR FRUITVILLE FL	05-11-99	8.29
		09-14-99	24.47

SARASOTA COUNTY

STATION NUMBER	STATION NAME	DATE	ELEVATION ABOVE NGVD (FEET) (72020)
271813082201305	ROMP 22 SURFICIAL WELL NEAR FRUITVILLE FL	05-11-99	28.72
		09-14-99	33.02
272049082324501	ROMP TR SA-1 LINGER LODGEL NEAR SARASOTA FL	05-11-99	1.03
		09-15-99	1.66
272049082324502	ROMP TR SA-1 SUWANNEE WELL NEAR SARASOTA FL	05-11-99	6.60
		09-15-99	14.91
272049082324503	ROMP TR SA-1 UPPER INTER WELL NEAR SARASOTA FL	05-11-99	2.07
		09-15-99	.65
272053082320202	STA INJ DEEP MTR 2 NEAR SARASOTA FL	05-11-99	2.06
		09-15-99	14.53
272119082325101	WHITAKER BAY WELL NEAR SARASOTA FL	05-11-99	-.30
		09-15-99	5.65
272127082295301	KENSINGTON PARK WELL 1 NEAR SARASOTA FL	05-11-99	.89
		09-15-99	17.13
272133082324701	CITY SARASOTA 27TH ST WELL NEAR SARASOTA FL	05-11-99	-.55
		09-15-99	7.25
272317082302402	COUNTY PUMP STATION 1 3 INCH WELL NEAR SARASOTA FL	05-11-99	3.38
		09-15-99	17.22

WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

SARASOTA COUNTY

DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)
271021082151603 ROMP 19 ES WELL NEAR SARASOTA FL (LAT 27 10 21N LONG 082 15 16W)											
JUN 1999											
30...	1150	30.47	779	27.0	40	66	24	68	.8	73	60
AUG											
24...	0931	31.30	855	26.5	30	79	26	66	1.0	84	68
271134082092201 BIG SLOUGH DEEP WELL NR ARCADIA FL (LAT 27 11 34N LONG 082 09 22W)											
MAY 1999											
11...	1305	28.95	--	--	--	--	--	--	--	--	--
JUN											
30...	1004	30.44	849	27.0	--	--	--	--	--	--	100
AUG											
24...	1100	34.35	803	28.5	--	--	--	--	--	--	100
SEP											
14...	1224	34.30	--	--	--	--	--	--	--	--	--
271134082092202 BIG SLOUGH SHALLOW WELL NEAR ARCADIA FL (LAT 27 11 34N LONG 082 09 22W)											
JUN 1999											
30...	1005	29.10	637	27.0	--	--	--	--	--	--	56
AUG											
24...	1105	33.40	636	28.9	--	--	--	--	--	--	60

DATE	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)
271021082151603 ROMP 19 ES WELL NEAR SARASOTA FL (LAT 27 10 21N LONG 082 15 16W)										
JUN 1999										
30...	.28	11	511	<.01	.29	.02	.56	.05	<.01	7.2
AUG										
24...	.26	15	540	<.01	.28	.03	.60	.19	.01	3.5

DATE	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)
271021082151603 ROMP 19 ES WELL NEAR SARASOTA FL (LAT 27 10 21N LONG 082 15 16W)										
JUN 1999										
30...	5.4	<1.0	<1.0	1.2	1400	1	<.1	<1.0	310	4.4
AUG										
24...	3.0	<1.0	<1.0	2.2	1200	3	<.1	2.4	420	4.0

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CONVERSION FACTORS AND VERTICAL DATUM

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