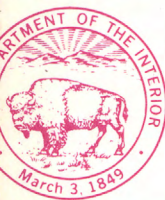
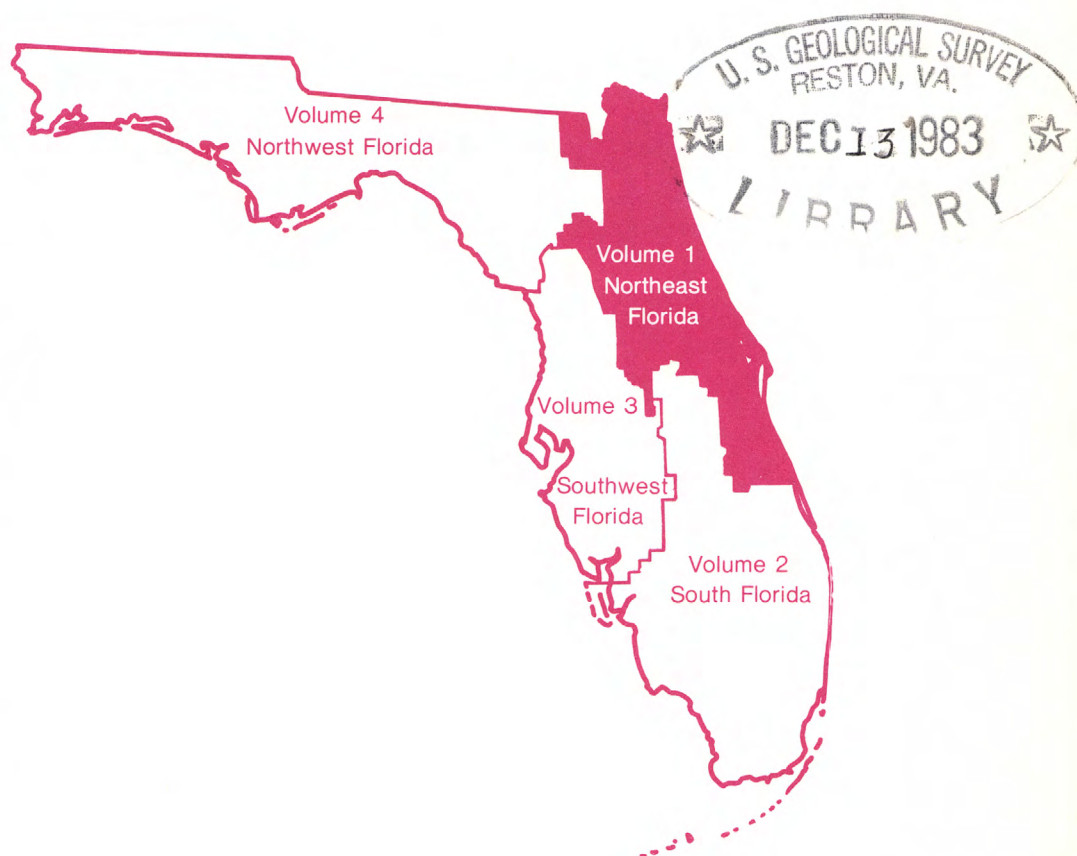


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Water Resources Data Florida Water Year 1982

Volume 1B. Northeast Florida Ground Water



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT FL-82-1B
Prepared in cooperation with the State of Florida
and with other agencies

CALENDAR FOR WATER YEAR 1982

1981

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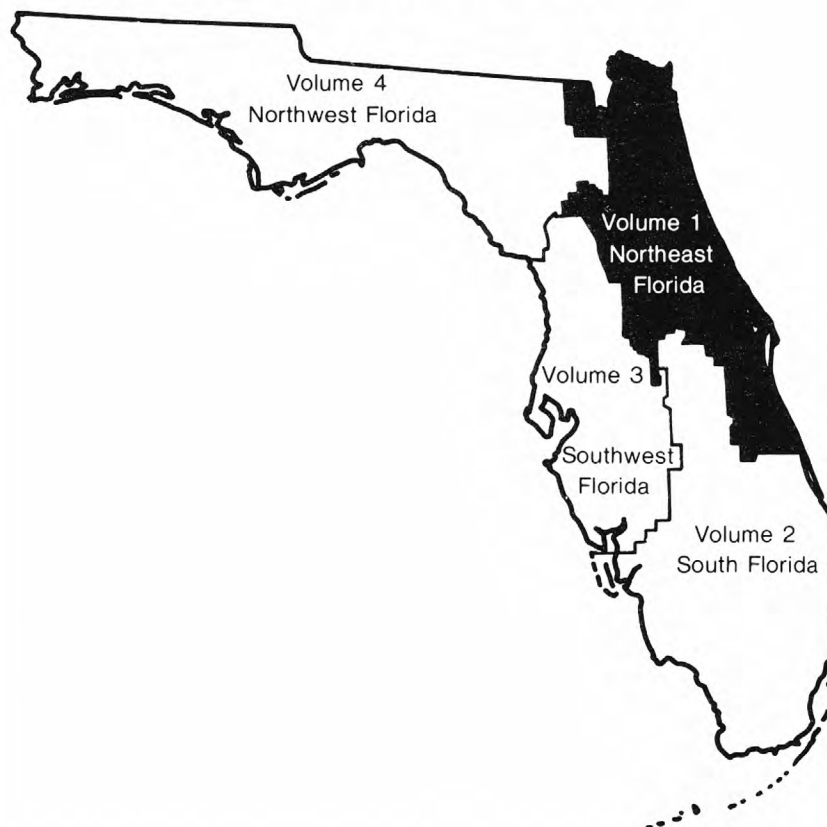
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JANUARY							FEBRUARY							MARCH						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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10	11	12	13	14	15	16	14	15	16	17	18	19	20	14	15	16	17	18	19	20
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31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



Water Resources Data Florida Water Year 1982

Volume 1B. Northeast Florida Ground Water
by L.D. Fayard, D.M. Bonnet, and R.G. Belles



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT FL-82-1B
Prepared in cooperation with the State of Florida
and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

JAMES G. WATT, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

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

For additional information write to
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U.S. Geological Survey
80 North Hughey Avenue, Suite 216
Orlando, Florida 32801

1983

PREFACE

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

- 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, and who typed, edited, and assembled the report. In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, and tabulation of the data.

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

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		14.	
15. Supplementary Notes Prepared in cooperation with the State of Florida and other agencies.			
16. Abstract (Limit: 200 words) Water resources data for the 1982 water year in Florida consists of continuous or daily discharge for 264 streams, periodic discharge for 41 streams, miscellaneous discharge for 71 streams, continuous or daily stage for 102 streams, periodic stage for 15 streams, peak discharge for 83 streams and peak stage for 8 streams; continuous or daily elevations for 102 lakes, periodic elevations for 111 lakes; continuous ground water levels for 420 wells, periodic ground water levels for 587 wells, and miscellaneous water level measurements for 2,794 wells; quality of water data for 327 surface water sites and 791 wells. The data for northeast Florida includes continuous or daily discharge for 61 streams, periodic discharge for 8 streams, miscellaneous discharge for 21 streams, peak discharge for 29 streams, low-flow discharge for 2 streams, continuous or daily stage for 73 streams; continuous elevations for 40 lakes and periodic elevations for 15 lakes; continuous ground water levels for 32 wells, periodic ground water levels for 91 wells, and miscellaneous water level measurements for 779 wells; quality of water for 23 surface water sites and for 173 wells. These data represent the National Water Data System records collected by the U.S. Geological Survey and cooperating local, state and federal agencies in Florida.			
17. Document Analysis: a. Descriptors *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. b. Identifiers/Open-Ended Terms c. COSATI Field/Group			
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Volume 1: Northeast Florida

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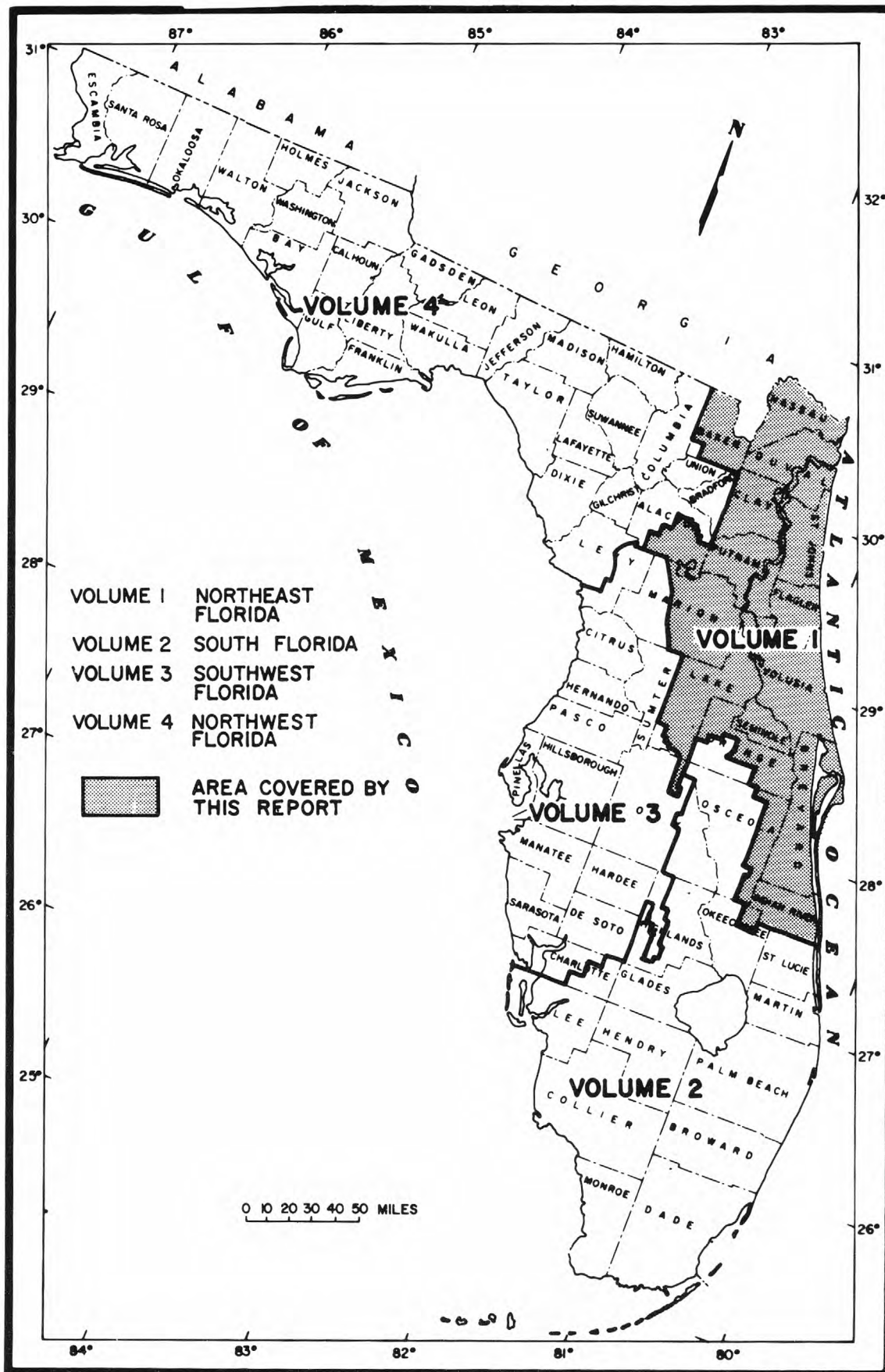


Figure 1. Geographic area covered by this report.

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INTRODUCTION

Water resources data for the 1982 water year for northeast Florida consist of records of stage, discharge, and water quality of streams; elevation and water quality of lakes and reservoirs; water-levels and water quality of wells; and discharge and water quality of springs. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating state and federal agencies in Florida.

Records of discharge and stage of streams, and contents (or elevations) of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water supply papers entitled, "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled, "Ground-Water Levels in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from the Branch of Distribution, U.S. Geological Survey, 1200 South Eads Street, Alexandria, VA 22202.

For water years 1961 through 1974, streamflow data were released by the U.S. Geological Survey in annual reports on a state-boundary basis. Water-quality records for water years 1964 through 1974 were similarly released either in separate reports or in conjunction with streamflow records.

Beginning with the 1975 water year, water data for streamflow, water quality, and ground water are published in official Survey reports on a state-boundary basis. These official Survey reports carry 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-82-1B." For archiving and general distribution, the reports for water years 1971-74 are also 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 subdistrict chief at the address given on the back of the title page or by telephone (305) 420-6191.

COOPERATION

The systematic collection of water resources data in the State of Florida by the U.S. Geological Survey began in 1930 and has been continued in cooperation with state, federal, and local agencies. The data for this report were collected as part of a cooperative program with the following agencies:

Florida Department of Environmental Regulation
Florida Department of Transportation
Florida Department of Natural Resources
St. Johns River Water Management District
County of Lake
County of St. Johns

County of Volusia
City of Cocoa
City of Gainesville
City of Jacksonville
Corps of Engineers, U.S. Army

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DEFINITION OF TERMS

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

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons.

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

Bacteria are microscopic unicellular organisms, typically spherical, rod-like, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, 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.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, non-spore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as all the organisms which produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C $\pm$ 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestines or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C $\pm$ 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found also in the intestines of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C $\pm$ 1.0°C on M-enterococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by micro-organisms, such as bacteria.

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

Ash weight is the weight or amount of residue present after the residue from the dry weight determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash weight values of zooplankton and phytoplankton are expressed in g/m³ (grams per cubic meter), and periphyton and benthic organisms in g/m² (grams per square meter).

Dry weight refers to the weight of residue present after drying in an oven at 60°C for zooplankton and 105°C for periphyton, until the weight remains unchanged. This weight represents the total organic matter, ash and sediment, in the sample. Dry weight values are expressed in the same units as ash weight.

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

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

Cfs day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.9835 acre-feet, or approximately 646,000 gallons, and represents a runoff of approximately 0.0372 inch from 1 square mile.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water, and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural-water color or with carbonaceous organic pollution from sewage or industrial wastes.

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

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure as used in this report is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of saltwater.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (ft³/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute.

Detergents (methylene blue active substance, MBAS). Anionic surfactants in detergents resist chemical oxidation and biological breakdown. Soap is an example of this class and the synthetic members are sodium salts of organic sulfonates or sulfates (Rose, 1966). Their persistence in water over long periods of time contributes to pollution of both ground water and surface water. Some of the effects produced from detergent pollution are unpleasant taste, odor, and foaming (Wayman and others, 1962). Although the physiological implications of MBAS to human beings is unknown, prolonged ingestion of this material by rats is believed to be nontoxic (Paynter, 1960). The U.S. Public Health Service (1962) recommends that MBAS should not exceed 0.5 mg/L in drinking and culinary waters. ISD-W (1971) sets 0.2 mg/L as the highest desirable level and 1.0 mg/L as the maximum permissible level.

Discharge is the volume of water (or more broadly, total fluids) that passes a given point within a given period of time.

Mean discharge is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

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

Drainage area of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gage height is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

Micrograms per liter (μ g/L) is a unit expressing the concentration of chemical constituents in solution as weight (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) is a unit expressing the concentration of chemical constituents in solution. Milligrams per liter represents the weight of solute per unit volume of water. Concentration of suspended sediment can also be expressed in mg/L based on the mass of sediment per liter of sample.

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

Organism is any living entity, such as an insect, phytoplankter, or zooplankter.

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

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meters (m²), acres, or hectares. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

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Partial-record station is a particular site where limited streamflow data are collected systematically over a period of years for use in hydrologic analyses.

Periphyton is the assemblage of micro-organisms attached to and growing upon solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton is a useful indicator of water quality.

Pesticides are chemical compounds used to control the growth of undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Since the first application of DDT as an insecticide in the early 1930's, there have been almost 60,000 pesticide formulations registered, each containing at least one of the approximately 800 different basic pesticide compounds (Goerlitz and Brown, 1972, p. 24). The United States annually produces about one billion pounds of these compounds. Although efforts are being made to substitute many of the chlorinated hydrocarbon pesticides with more specific, fast acting, and easily degradable compounds, chlorinated hydrocarbon pesticides are still commonly used in many areas of the country.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are primary food producers in the aquatic environment, and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per 100 mL of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algae mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per 100 mL of sample.

A picocurie (pCi) is one millionth of the amount of radioactivity represented by a microcurie, which is the quantity of radiation represented by one millionth of a gram of radium-226. A picocurie of radium results in 2.22 disintegrations per minute.

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Radioisotopes are isotope forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight, but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus. For example: Ordinary chlorine is a mixture of isotopes having atomic weights 35 and 37, with the natural mixture having an atomic weight about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron (Rose, 1966). There are 275 isotopes of the 81 stable elements in addition to over 800 radioactive isotopes.

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

Runoff in inches (IN.) shows the depth of which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transformed by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Sediment discharge is the rate at which suspended sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight, or by volume, that is discharged in a given time.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks and dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos 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 micromhos). This relation is not constant from stream to stream, and it may even vary in the same source with changes in the composition of the water (Durfor and Becker, 1964, p. 27-29).

Stage-discharge relation is the relation between gage height and the volume of water per unit of time, flowing in a channel.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff," as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Surface area of a lake is that area outlined on the latest U.S. Geological Survey topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for stages when the various maps were made.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45 µg membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required for all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determination of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45 µg membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

Thermograph is a thermometer that continuously and automatically records on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the location of the thermograph of a digital mechanism that automatically records water temperature on paper tape.

Tons per day is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour period.

Total is the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected forms of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determines all of the constituent in the sample.)

Total in bottom material is the total amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material."

Total, recoverable is the amount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

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Total organic carbon (TOC) is a measure of the organically related carbonaceous content of water. It includes all natural and manmade organic compounds which are combustible at a temperature of 950°C.

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. Thus, the water year beginning October 1, 1970 and ending September 30, 1971 is called the "1971 water year."

WRD is used as an abbreviation for "Water-Resources Data" in the summary REVISIONS paragraph to refer to previously published state annual basic-data reports.

WSP is used as an abbreviation for "Water-Supply paper" in references to previously published reports.

SPECIAL NETWORKS

Some of the stations for which data are published in this report are included in special networks and programs. These stations are identified by their title, set in parentheses, under the station name.

The National Stream Quality Accounting Network (NASQAN) has been designed to meet many of the information demands of agencies or groups involved in planning and management on a national or regional scale. These agencies include the Water Resources Council, Council on Environmental Quality, Environmental Protection Agency, and interstate or State-Federal units, such as river-basin commissions or river-compact commissions.

The primary objectives of the accounting network are (1) to depict areal variability of water-quality conditions nationwide on a year-to-year basis and (2) to detect and assess long-term changes in stream quality. In implementing the network, one or more stations in each river-basin unit is selected so as to sample a major part of the surface-water discharge from the unit. The NASQAN stations in Florida are shown in figure 2.

Both accounting and broad-scale monitoring objectives have been incorporated in the network design. Temperature, specific conductance, the major inorganic constituents, sediment, organic and minor inorganic constituents, bacterial content, and other biological parameters are measured periodically to provide information on their range, diversity, and variability. The ability of the stream to support biological life is assessed by periodic observations of the lower forms of aquatic plants and animals. Information obtained from the accounting network stations will provide a broad base of water-quality data on streams throughout the nation.

Pesticide program is a network of regularly sampled water-quality stations where additional samples are collected to determine the concentration and distribution of pesticides in streams whose waters are used for irrigation or in streams in areas where potential contamination could result from the application of the commonly used insecticides and herbicides.

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

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

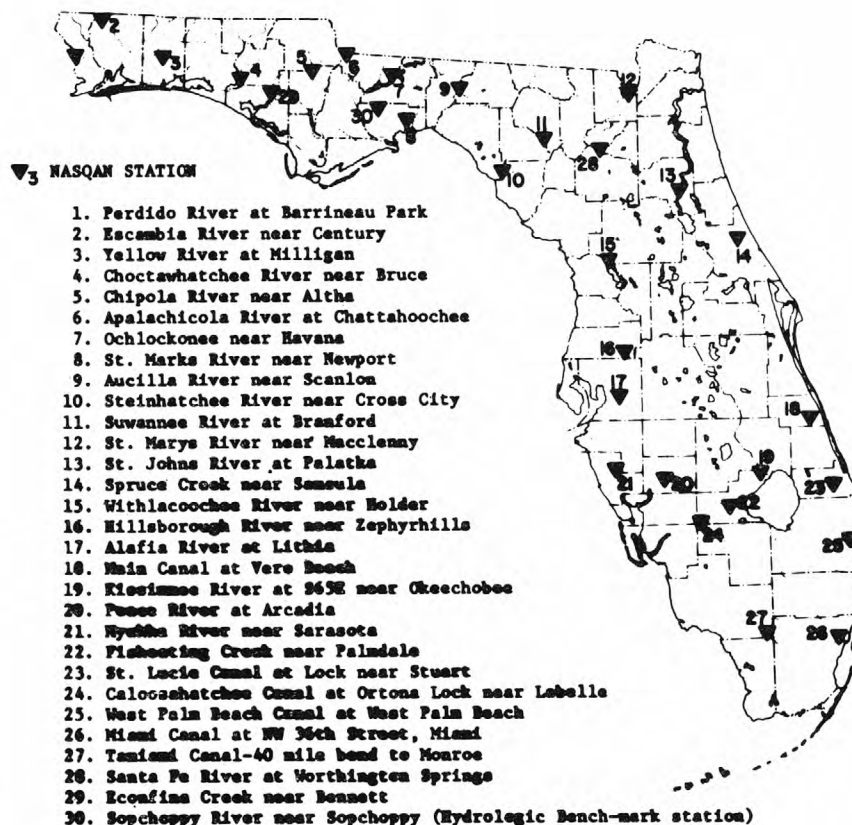


Figure 2. NASQAN Stations in the State of Florida

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STATION IDENTIFICATION

Downstream order and station number

Surface-water stations are listed in a downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the lists of gaging stations and water-quality stations in the front of this report the rank of tributaries is indicated by indentation, each indentation representing one rank.

As an added means of identification, each gaging station, partial-record station, and water-quality station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and gaging stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Water-quality stations located at or near gaging stations or partial-record stations have the same number as the gaging or partial-record station. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station, such as 02335500, which appears just to the left of the station name includes the 2-digit part number "02" plus the 6-digit downstream order number "335500." In this report, the records are listed in downstream order by parts. The part number refers to an area whose boundaries coincide with certain natural drainage lines. All records for a drainage basin encompassing more than one state can be arranged in downstream order by assembling pages from the various state reports by station number to include all records in the basin.

Numbering system for wells and miscellaneous sites

Downstream order station numbers are not assigned to wells, and to miscellaneous sites where only random water-quality samples or discharge measurements are taken.

The well and miscellaneous site numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits is a sequential number for sites within a 1-second grid. In the event that the latitude-longitude coordinates for two sites are the same, sequential numbers "01," "02," are assigned to give each site a unique number. See figure below.

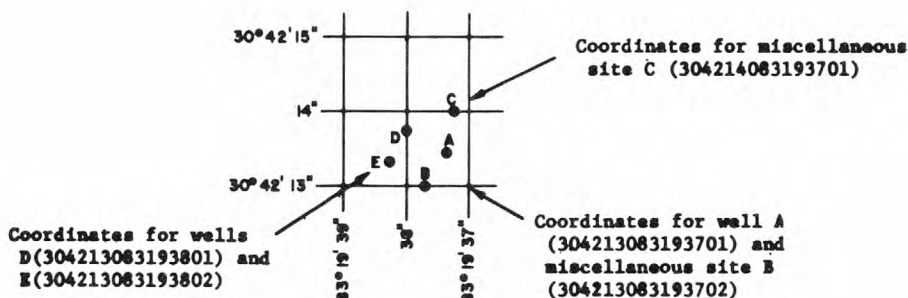


Figure 3. System for numbering wells and miscellaneous sites.
(latitude and longitude)

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from either direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at selected time intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the U.S. Geological Survey. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

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

At some stream-gaging stations the stage-discharge relation is affected by backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in determining discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in determining discharge.

At some stations there is no relation between stage and discharge because of the flat stream gradients and/or tidal fluctuations. Discharge is determined from ratings which are based on a relation between recorded deflection (velocity index unit) at a fixed point and mean velocity at a fixed measuring section, and a relation between recorded stage and cross-sectional area at the measuring site.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents or a table showing the daily contents is given. Tables of daily mean gage heights are included for some streamflow stations. Records are published for the water year, which begins on October 1 and ends on September 30.

The description of the gaging station gives the location, drainage area, period of record, notations of revisions of previously published records, type and history of gages, general remarks, average discharge, and extremes of discharge or contents. The location of the gaging station and the drainage area are obtained from most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

Previously published streamflow records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISED RECORDS" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge are affected by the revision, the fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The type of gage currently in use; the datum of the present gage referred to National Geodetic Vertical Datum; and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." National Geodetic Vertical Datum is explained in "DEFINITION OF TERMS" on page 3.

Information pertaining to the accuracy of the discharge records and to conditions which affect the natural flow of the gaging station is given under "REMARKS." For reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. In addition, the median of yearly mean discharges is given for stream-gaging stations having 10 or more complete years of record if the median differs from the average by more than 10 percent. Under "EXTREMES" are given first, the extremes for the period of record, second, information available outside the period of record, and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a non-recording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations peak discharges are listed with EXTREMES FOR THE CURRENT YEAR: if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharge is not published for any canals, ditches, drains, or for any stream for which peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

Skeleton rating tables are published, immediately following EXTREMES, for stream-gaging stations where they serve a useful purpose and the dates of applicability can be easily identified.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN"), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches. In the yearly summary below the monthly summary, the figures shown are the appropriate daily discharges for the calendar and water years.

Footnotes to the table of daily discharge are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs a table showing daily contents or stage is given. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given.

Data collected at partial-record stations follow the information for continuous record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record stations.

Accuracy of field data and computed results

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

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges is within 5 percent; "good" within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

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

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

Other data available

Information of a more detailed nature than that published for most of the gaging stations, such as discharge measurements, gage-height records, and rating tables, is on file in the subdistrict office. Also most gaging station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the subdistrict office.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and examination of data

The descriptive heading for water-quality records at surface-water stations where parameters are measured on a daily basis (specific conductance, pH, dissolved oxygen, water temperature, sediment discharge, etc.) gives the period of record for the daily water-quality parameters; extremes for the period of record, extremes for the current year; and general remarks. The chemical analyses of samples collected at these sites are given immediately following the daily records.

For records collected at miscellaneous surface-water sites and ground-water sites no descriptive statements are given, however, the site number, date of sampling and other pertinent data are given in the table of chemical analyses.

Water analysis

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey Techniques of Water-Resources Investigations listed on a following page.

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

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

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the subdistrict office.

Water temperature

Water temperature is measured at most of the water-quality stations. For daily-sampled stations, the water temperature is taken at about the same time each day to minimize the effect of diurnal variations. Most large streams have small diurnal variations in water temperature; small, shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. The thermometers used for determining the water temperature are accurate to plus or minus 0.5°C.

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Sediment

Suspended sediment samples are collected monthly at stations in the Hydrologic Benchmark Network and National Stream Quality Accounting Network with depth-integrating samplers. Depth-integrated samples were collected at three or more verticals in the cross section to determine variations in the cross section and to more accurately determine suspended sediment loads. Daily sediment loads in tons per day are reported for days on which samples were collected.

Mineral constituents in solution

All natural waters contain dissolved mineral matter. The quantity of dissolved mineral matter in natural water depends primarily on the type of rocks or soils with which the water has been in contact and the length of time of contact. Ground water is generally more highly mineralized than surface runoff because it remains in contact with the rocks and soils for much longer periods. Many streams are fed by both surface runoff and ground water from seepage or direct spring inflow. Such streams reflect the character of the more mineralized ground water during dry periods and are diluted by surface runoff during wet periods.

The mineral constituents and physical properties of waters reported in this report include those that have a practical bearing on water use. The results of analyses generally include silica, iron, calcium, magnesium, sodium, potassium, alkalinity, sulfate, chloride, fluoride, nitrogen and phosphorus species, pH, dissolved solids, and specific conductance. Aluminum, manganese, color, dissolved oxygen, and other dissolved constituents and physical properties are reported for certain streams. Microbiologic and organic components (pesticides, total organic carbon) and minor elements (arsenic, cobalt, cadmium, copper, lead, mercury, nickel, strontium, zinc, etc.) are determined occasionally for some streams in connection with specific studies. The source and significance of a number of constituents are discussed in table 1.

Qualifying remarks codes

The following remarks codes may appear with the data.

E	Estimated value
<	Actual value is known to be less than the value shown
>	Actual value is known to be greater than the value shown
M	Presence of material verified but not quantified
N	Presumptive evidence of presence of material
ND	Material specifically analyzed for but not detected
K	Results based on colony count outside the acceptance range (non-ideal colony count)

Table 1.--Source and significance of dissolved mineral constituents and properties of water

Constituent	Source or cause	Significance
Alkalinity (As CaCO_3)	Caused primarily by bicarbonate, carbonate, and hydroxide. Other weak acid radicals like borate, phosphate, and silicate may contribute to alkalinity.	Ability of water to neutralize strong acid. High alkalinity itself not detrimental but usually associated with high pH, hardness, and dissolved solids which can be detrimental.
Aluminum (Al)	Usually present only in negligible quantities in natural waters except where the waters have been in contact with the more soluble rocks of high aluminum content. Acid waters often contain large amounts.	May be troublesome in feed waters forming scale on boiler tubes. High concentrations usually indicate the presence of acid mine drainage or industrial waste.
Arsenic (As)	Natural arsenic-bearing minerals. Found in some ground waters, in wastes from industry and mining activity, and residues from some insecticides and herbicides.	The U.S. Environmental Protection Agency (1977a) gives a limit of 50 ug/L for potable waters.
Bicarbonate (HCO_3) and Carbonate (CO_3)	Produced by reaction of atmospheric carbon dioxide with water. Dissolved from carbonate rocks such as limestone and dolomite.	Bicarbonate and carbonate produce alkalinity. Bicarbonates of calcium and magnesium decompose in steam boilers and hot water facilities to precipitate as scale and release corrosive carbon dioxide gas. In combination with calcium and magnesium cause carbonate hardness.
Cadmium (Cd)	Found in wastes from pigment works, textile printing, lead mines, and chemical industries.	The results of animal studies suggest that very small amounts of cadmium can produce nephrotoxic and cardiovascular effects. The reproductive organs of animals are specifically affected after parenteral administration of very small amounts of cadmium salts. The U.S. Environmental Protection Agency (1977a) states that cadmium in excess of 10 ug/L is cause for rejection of the water supply.
Calcium (Ca) and Magnesium (Mg)	Dissolved from practically all soils and rocks, but especially from limestone, dolomite and gypsum. Calcium and magnesium are found in large quantities in some brines. Magnesium is present in large quantities in seawater.	Causes most of the hardness and scale-forming properties of water; consumes soap (see hardness). Waters low in calcium and magnesium are desired in electroplating, tanning, dyeing, and in textile manufacturing.
Chloride (Cl)	Dissolved from rocks and soils. Present in sewage and found in large amounts in ancient brines, seawater, and industrial brines.	About 300 mg/L in combination with sodium gives salty taste to water. Increases the corrosiveness of water. The U.S. Environmental Protection Agency (1977b) recommends that the chloride content should not exceed 250 mg/L.
Chromium (Cr)	Few if any waters contain chromium from natural sources. Natural waters probably contain only traces of chromium as a cation unless the pH is very low. When chromium is present in water, it is usually the result of pollution by industrial wastes such as metal pickling, plating, manufacturing of paints, dyes, explosives, ceramics, paper, glass, and photography processing.	The U.S. Environmental Protection Agency (1977a) limits the maximum concentration of hexavalent chromium to 50 ug/L. Toxicity to aquatic life varies widely with the species, temperature, pH, and other factors.
Cobalt (Co)	Cobalt occurs in nature in the minerals smaltite, $(\text{Co}, \text{Ni})\text{As}_2$, and cobaltite, CoAsS . Alluvial deposits and soils derived from shales often contain cobalt in the form of phosphate or sulfate, but other soil types may be markedly deficient in cobalt in any form. Biological activity may aid in the solution of small amounts of cobalt. May also be present in industrial wastes especially those from manufacture of ceramics, inks, electric heating units, and cobalt pigments.	Usually suggests pollution. Relatively low toxicity to man. Fish and aquatic life tolerance varies widely from less than 3 mg/L to more than 10 mg/L. Essential in trace quantities for plant growth.
Color	Yellow-to-brown color of some water is usually caused by organic matter extracted from leaves, roots, and other organic substances. Objectionable color in water also results from industrial wastes and sewage.	Water for domestic and some industrial uses should be free from perceptible color. The U.S. Environmental Protection Agency (1977b) proposes a limit of 15 Pt-Co units. Color in water is objectionable in food and beverage processing and many manufacturing processes. Limits light penetration in water, thus preventing growth of some organisms.

Table 1 (Continued)

Constituent or property	Source or cause	Significance												
Copper (Cu)	Copper is a fairly common constituent of natural water. Small amounts may be introduced into water by solution of copper and brass water pipes and other copper-bearing equipment in contact with the water or from copper salts added to control algae in open reservoirs. Copper salts such as the sulfate and chloride are highly soluble in waters with a low pH but in water of normal alkalinity the salts hydrolize and copper may be precipitated. In the normal pH range of natural water containing carbon dioxide, the copper might be precipitated as carbonate.	Copper imparts a disagreeable metallic taste to water. As little as 1.5 mg/L can usually be detected, and 5 mg/L can render the water unpalatable. Copper is not considered to be a cumulative systemic poison like lead and mercury; most copper ingested is excreted by the body and very little is retained. The pathological effects of copper are controversial, but it is generally believed very unlikely that humans could unknowingly ingest the toxic quantities from palatable drinking water. The U.S. Environmental Protection Agency, (1977b) recommends that copper should not exceed 1 mg/L in drinking and culinary water. Copper is essential in trace amounts for plant growth but becomes toxic in large amounts.												
Dissolved Oxygen (DO)	Dissolved in water from air and from oxygen given off in the process of photosynthesis by aquatic plants.	Dissolved oxygen increases the palatability of water. The amount necessary to support fish life varies with species and age, with temperature, and concentration of other constituents in the water. Under average stream conditions, 5 mg/L is usually necessary to maintain a varied fish fauna in good condition. For many industrial uses, zero dissolved oxygen is desirable to inhibit corrosion.												
Dissolved solids	Chiefly mineral constituents dissolve from weathering of rocks and soils.	The U.S. Environmental Protection Agency (1977b) recommends that the dissolved solids should not exceed 500 mg/L, however, 1,000 mg/L is permitted under certain circumstances. Waters containing more than 1,000 mg/L of dissolved solids are unsuitable for many purposes. The U.S. Geological Survey classifies the degree of salinity of water as follows: <table><tr><th>Dissolved solids (mg/L)</th><th>Degree of salinity</th></tr><tr><td>Less than 1,000.....</td><td>Nonsaline.</td></tr><tr><td>1,000 to 3,000.....</td><td>Slightly saline.</td></tr><tr><td>3,000 to 10,000.....</td><td>Moderately saline.</td></tr><tr><td>10,000 to 35,000.....</td><td>Very saline.</td></tr><tr><td>More than 35,000.....</td><td>Brine.</td></tr></table>	Dissolved solids (mg/L)	Degree of salinity	Less than 1,000.....	Nonsaline.	1,000 to 3,000.....	Slightly saline.	3,000 to 10,000.....	Moderately saline.	10,000 to 35,000.....	Very saline.	More than 35,000.....	Brine.
Dissolved solids (mg/L)	Degree of salinity													
Less than 1,000.....	Nonsaline.													
1,000 to 3,000.....	Slightly saline.													
3,000 to 10,000.....	Moderately saline.													
10,000 to 35,000.....	Very saline.													
More than 35,000.....	Brine.													
Fluoride (F)	Dissolved in small to minute quantities from most rocks and soils. Enters many waters from fluoridation of municipal supplies.	Fluoride in drinking water reduces the incidence of tooth decay when the water is consumed during the period of enamel calcification. However, it may cause mottling of the teeth depending on the concentration of fluoride, the age of the child, amount of drinking water consumed, and susceptibility of the individual (Maier, 1950).												
Hardness (as CaCO ₃)	In most waters nearly all the hardness is due to calcium and magnesium. All of the metallic cations other than the alkali metals also cause hardness.	Consumes soap before a lather will form. Deposits soap curd on bathtubs. Hard water forms scale in boilers, water heaters, and pipes. Hardness equivalent to the bicarbonate and carbonate is called carbonate hardness. Any hardness in excess of this is called non-carbonate hardness. Waters of hardness up to 60 mg/L are considered soft; 61 to 120 mg/L, moderately hard; 121 to 180 mg/L, hard; more than 180 mg/L, very hard.												
Iron (Fe)	Iron is dissolved from many rocks and soils. On exposure to air, normal basic waters that contain more than 1 mg/L of iron soon become turbid with the insoluble reddish ferric compounds produced by oxidation. Surface waters, therefore, seldom contain as much as 1 mg/L of dissolved iron, although some acid waters carry large quantities of iron in solution.	On exposure to air, iron in ground water oxidizes to reddish-brown sediment. More than about 300 ug/L may stain laundry and utensils reddish brown. Objectionable for food processing, textile processing, beverages, ice manufacture, brewing and other processes. The U.S. Environmental Protection Agency (1977), for esthetic reasons, recommends a limit of 300 ug/L. Larger quantities cause unpleasant taste and favor growth of bacteria.												

Table 1 (Continued)

Constituent or property	Source or cause	Significance
Lead (Pb)	Lead seldom occurs in most natural waters, but industrial mine and smelter effluents may contain relatively large amounts of lead which contaminates the streams. Also, atmospheric contamination which is produced from several types of engine exhausts has considerably increased the availability of this element for solution in rainfall, resulting in contamination of lead in streams (Hem, 1970).	The U.S. Environmental Protection Agency, (1977a) states that lead shall not exceed 50 ug/L in drinking and culinary water on carriers subject to Federal quarantine regulations. Maximum safe concentrations for animal watering is reported to be 500 ug/L. Toxicity of lead to fish decreases with increasing water hardness.
Manganese (Mn)	Dissolved from some rocks and soils. Not as common as iron. Large quantities often associated with high iron content and with acid waters.	Same objectionable features as iron. Causes dark brown or black stain. The U.S. Environmental Protection Agency (1977b) proposes that manganese should not exceed 0.05 mg/L.
Nickel (Ni)	Chiefly from metal-plating works, manufacturing of ceramic colors and inks.	Presence of nickel in water may suggest pollution. Federal drinking water standards do not place a limit on nickel. In the Soviet Union the maximum permissible concentration is 1.0 mg/L (Kirkor, 1951).
Nitrogen, Ammonia (N)	Includes nitrogen in the form of NH_3 and NH_4^+ . Found in many waters but usually only in trace amounts. Waters from hot springs may contain high concentrations. Found also in waters polluted with sewage and other organic waste.	Usually indicates organic pollution. Toxicity to fish is dependent on the pH of the water; 2.5 mg/L ammonia nitrogen can be harmful in the 7.4 to 8.5 pH range (Ellis and others, 1948). Ammonium salts are destructive to concrete made from portland cement.
Nitrogen, Organic (N)	Amino acids, proteins, and polypeptides. Derived from living organisms and their life processes and from wastes and sewage.	Sometimes indicates pollution. Increases nutrient content of water through decomposition and formation of other nitrogen forms.
Nitrogen, Nitrate (N)	Decaying organic matter, sewage, fertilizers, and nitrates in soil.	Concentrations much greater than the local average may suggest pollution. The U.S. Environmental Protection Agency (1975) established a 10 mg/L maximum contamination level. More than about 10 mg/L of nitrate (N) may cause a type of methemoglobinemia in infants, sometimes fatal. Water of high nitrate content should not be used in baby feeding (Maxcy, 1950). Nitrate has shown to be helpful in reducing intercrystalline cracking of boiler steel. It encourages growth of algae and other organisms which produce undesirable tastes and odors.
Nitrogen, Nitrite (N)	Unstable in the presence of oxygen and is present in only small amounts in most waters. Found in sewage and other organic wastes.	Presence of nitrite is usually an indication of recent organic pollution. Undesirable in waters for some dyeing and brewing processes.
Nitrogen, Total Kjeldahl (N)	Includes ammonia nitrogen and organic nitrogen.	See organic and ammonia nitrogen.
Nitrogen, total (N)	All forms of nitrogen--inorganic and organic.	See ammonia nitrogen, nitrite, nitrate, and organic.
Hydrogen ion concentration (pH)	Hydrogen ions derived from ionization of weak and strong acids. Hydrogen ion concentration is expressed in terms of pH where $\text{pH} = \log (\text{H}^+)$. Acid generating salts and dissolved gases such as SO_2 and CO_2 increase the number of hydrogen ions. Carbonates, bicarbonates, hydroxides, phosphates, silicates, and borates reduce the number of hydrogen	pH ranges between 0 and 14. A pH of 7.0 indicates solution having equal numbers of hydrogen and hydroxide ions. pH higher than 7.0 denotes predominance of hydroxide ions; values lower than 7.0 indicate predominance of hydrogen ions. Corrosiveness of water generally increases with decreasing pH. However, excessively alkaline waters may also attack metals. A pH range of 6.5-8.5 is recommended by the U.S. Environmental Protection Agency (1977b).
Strontium (Sr)	Dissolved from rocks and soil. Found in seawater and many brines. Present in waters of local areas where strontium minerals such as celestite and strontianite are present.	Naturally occurring strontium is similar chemically to calcium and only adds to the hardness of water.

Table 1 (Continued)

Constituent or property	Source or cause	Significance
Sulfate (SO ₄)	Dissolved from rocks and soils containing gypsum, iron sulfides, and other sulfur compounds. Usually present in mine waters and in some industrial waters.	Sulfate in water containing calcium forms hard scale in steam boilers. In large amounts, sulfate in combination with other ions gives bitter taste to water. Some calcium sulfate is considered beneficial in the brewing process. The U.S. Environmental Protection Agency (1977b) recommends that the sulfate content should not exceed 250 mg/L.
Temperature	Solar energy, thermal pollution from waste outfalls and heat from Earth's core.	Affects usefulness of water for many purposes. For most uses, a water of uniformly low temperature is desired. Shallow wells show some seasonal fluctuations in water temperature. Ground waters from moderate depths usually are nearly constant in temperature, which is near the mean annual air temperature of the area. In very deep wells, the water temperature generally increases on the average about 1°C with each 100-foot increment of depth. Seasonal fluctuations in temperatures of surface waters are comparatively large, depending on the depth of water, but do not reach the extremes of air temperature.
Turbidity	Colloidal suspensions of sediment, precipitates, and other small particles.	The U.S. Environmental Protection Agency (1977a) has established a maximum contaminant level as a monthly average of one nephelometric turbidity unit (NTU) for 5 turbidity units (NTU) with state approval, provided it does not interfere with disinfection, maintenance of chlorine residual, or bacteriological testing. Interferes with light penetration and limits growth of organisms. Also directly lethal to some life forms.
Zinc (Zn)	Dissolved from some rocks and soils. Found in high concentrations in some mine waters having a low pH. Zinc is used in many commercial products and industrial wastes may contain large amounts. May be derived from zinc plated or galvanized metal products.	High concentrations may be toxic to aquatic plants and animals. Zinc may have such a toxic action on purifying bacterial flora of streams as to present serious sewage pollution problems. The U.S. Environmental Agency (1977b) recommends that zinc should not exceed 5,000 ug/L (5 mg/L) in drinking water.

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the data

Ground-water level data from a statewide network of observation wells are published herein. The records include data from wells equipped with continuous water level recorders and data from wells where water levels are measured periodically.

Each well is identified by means of (1) a 15-digit number that is based on the grid system of latitude and longitude as shown in figure 3, and (2) a local number that is provided for continuity with older reports and for other use as dictated by local needs.

Measurements 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 insure that measurements at each well are of consistent accuracy and reliability.

Water-level measurements in this report are given in feet with reference to either National Geodetic Vertical Datum (NGVD) or land-surface datum (lsd). National Geodetic Vertical Datum is the datum plane on which the national network of precise levels is based; land-surface datum is a datum plane that approximates land surface at each well. If known, the altitude of the land-surface datum above National Geodetic Vertical Datum is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported daily or for every fifth day and the end of the 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, however, most measurements are reported to a hundredth of a foot.

HYDROLOGIC CONDITIONS

Rainfall was above normal at three rainfall stations and below normal at one station out of the five representative stations in the St. Johns River basin. These stations are at Melbourne in the upper St. Johns River basin, Orlando in the middle basin, Clermont in the Oklawaha basin, and Crescent City and Jacksonville in the lower basin.

Rainfall was above normal for the water year at Clermont (+5.7 inches), Orlando (+6.7 inches), and Crescent City (+5.7 inches). Jacksonville had near normal rainfall and Melbourne was 5.7 inches below normal.

Ground-water levels in the Floridan aquifer, which were at record lows in the previous water year, began to recover during the spring.

Figures 4-7 present hydrographs for four wells representing selected areas of the St. Johns River basin. The upper hydrograph is daily maximum elevations for the water year, and the lower is a plot of the annual average elevations for the period of record. Well 28224508047601 (fig. 4) near Cocoa was at a low of 25.28 feet NGVD in December and recovered to 28.74 feet by the end of the water year. Well 283253081283401 (fig. 5) near Orlando, began to recover in April and continued to rise during the rest of the water year. Well 291115081592501 (fig. 6) near Ocala, also began rising in April and reached an elevation of 51.98 feet by September 30. Well 285745081054001 (fig. 7) in Volusia County, started to rise in late December and continued a slow rise during the remainder of the water year.

Water levels in the surficial aquifer began to rise in Winter and continued this rise throughout the water year.

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HYDROLOGIC CONDITIONS--Continued

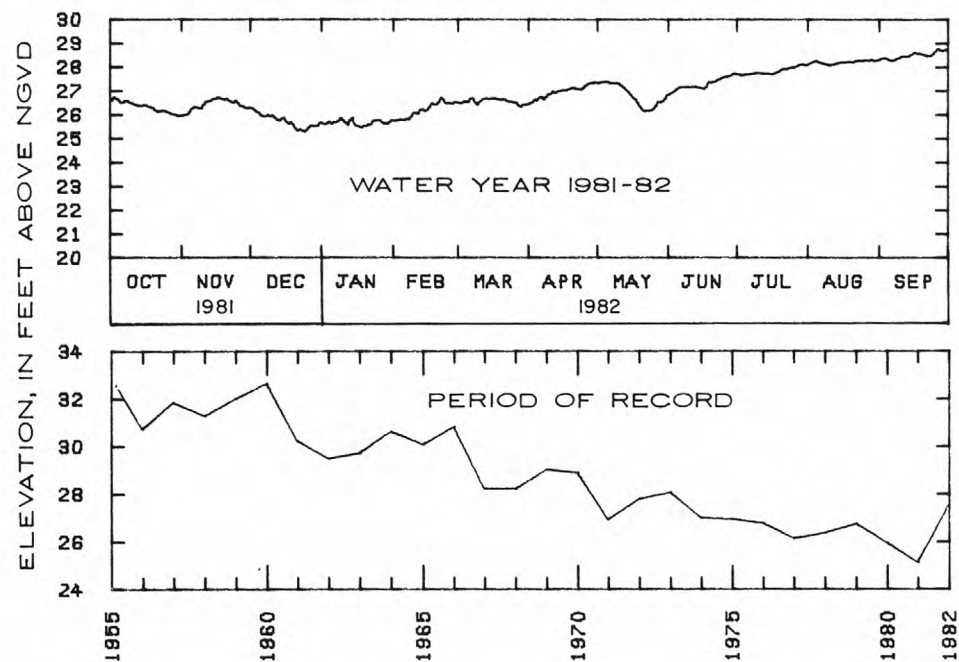


Figure 4. Water-year and long-term hydrographs for well 28224508047601, in Brevard County

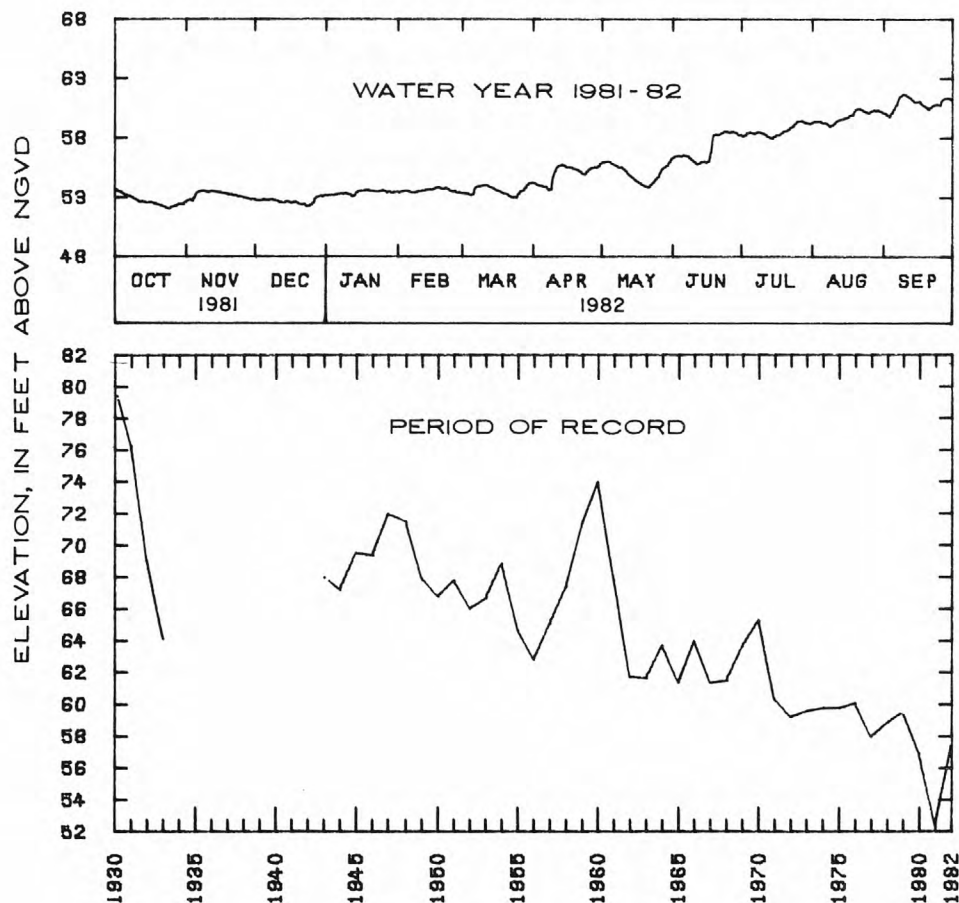


Figure 5. Water-year and long-term hydrographs for well 283253081283401, in Orange County.

HYDROLOGIC CONDITIONS--Continued

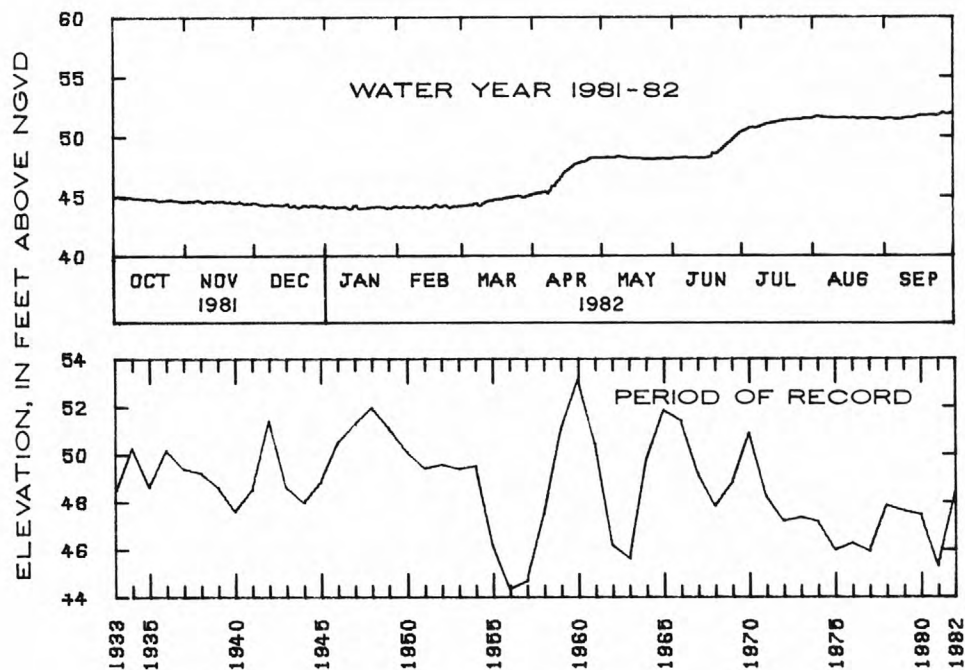


Figure 6. Water-year and long-term hydrographs for well 291115081592501, in Marion County.

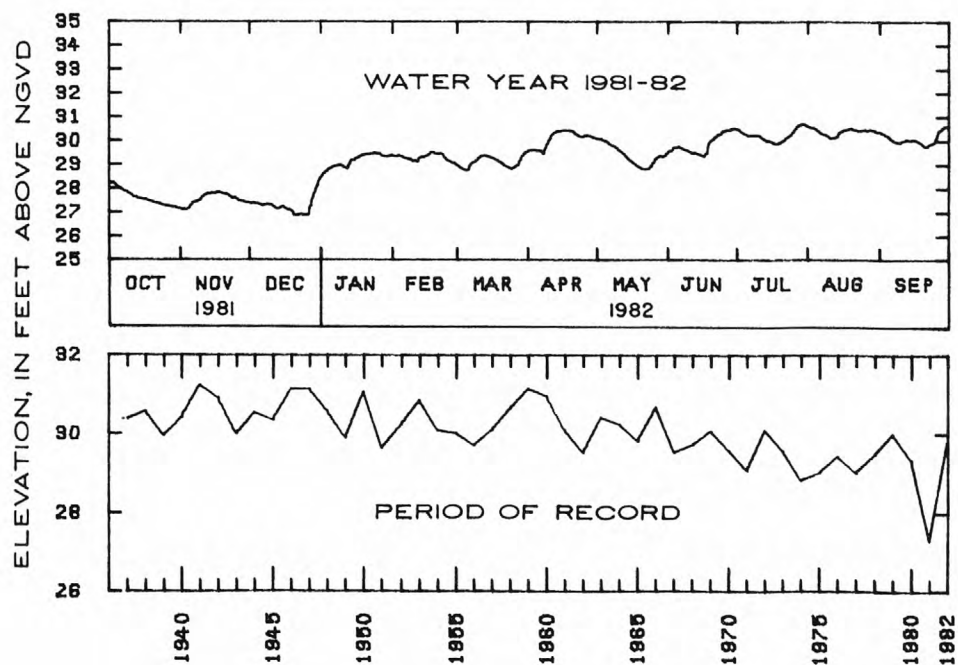


Figure 7. Water-year and long-term hydrographs for well 285745081054001, in Volusia County.

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PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-four manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing 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) is on 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 Distribution, 1200 South Eads Street, Arlington, VA 22202, authorized agent of the Superintendent of Documents, Government Printing Office.

- NOTE: When ordering any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."
- 1-D1. WATER TEMPERATURE-INFLUENTIAL FACTORS, FIELD MEASUREMENT, AND DATA PRESENTATION, by H. H. Stevens, Jr., J. F. 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, W. W. Wood: USGS--TWRI Book 1, Chapter D2, 1976. 24 pages.
 - 2-D1. APPLICATION OF SURFACE GEOPHYSICS TO GROUND-WATER INVESTIGATIONS, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.
 - 2-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.
 - 3-A1. GENERAL FIELD AND OFFICE PROCEDURES FOR INDIRECT DISCHARGE MEASUREMENTS, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
 - 3-A2. MEASUREMENT OF PEAK DISCHARGE BY THE SLOPE-AREA METHOD, by Tate Dalrymple and M. A. Benson, USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
 - 3-A3. MEASUREMENT OF PEAK DISCHARGE AT CULVERTS BY INDIRECT METHODS, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
 - 3-A4. MEASUREMENT OF PEAK DISCHARGE AT WIDTH CONTRACTIONS BY INDIRECT METHODS, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
 - 3-A5. MEASUREMENT OF PEAK DISCHARGE AT DAMS BY INDIRECT METHODS, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.
 - 3-A6. GENERAL PROCEDURE FOR GAGING STREAMS, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.
 - 3-A7. STAGE MEASUREMENTS AT GAGING STATIONS, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
 - 3-A8. DISCHARGE MEASUREMENTS AT GAGING STATIONS, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.
 - 3-A11. MEASUREMENT OF DISCHARGE BY MOVING-BOAT METHOD, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.
 - 3-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-C1. FLUVIAL SEDIMENT CONCEPTS, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.
 - 3-C2. FIELD METHODS FOR MEASUREMENT OF FLUVIAL SEDIMENT, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.
 - 3-C3. COMPUTATION OF FLUVIAL-SEDIMENT DISCHARGE, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.
 - 4-A1. SOME STATISTICAL TOOLS IN HYDROLOGY, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.
 - 4-A2. FREQUENCY CURVES, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.
 - 4-B1. LOW-FLOW INVESTIGATIONS, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.
 - 4-B2. STORAGE ANALYSES FOR WATER SUPPLY, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.

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- 4-B3. REGIONAL ANALYSES OF STREAMFLOW CHARACTERISTICS, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.
- 4-D1. COMPUTATION OF RATE AND VOLUME OF STREAM DEPLETION BY WELLS, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.
- 5-A1. METHODS FOR DETERMINATION OF INORGANIC SUBSTANCES IN WATER AND FLUVIAL SEDIMENTS, by M. W. Skougstad and others, editors: USGS--TWRI Book 5, Chapter A1. 1979. 626 pages.
- 5-A2. DETERMINATION OF MINOR ELEMENTS IN WATER BY EMISSION SPECTROSCOPY, by P. R. Barnett and E. C. Mallor, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.
- 5-A3. METHODS FOR ANALYSIS OF ORGANIC SUBSTANCES IN WATER, by D. F. Goerlitz and Eugene Brown: USGS--TWRI 5, Chapter A3. 1972. 40 pages.
- 5-A4. METHODS FOR COLLECTION AND ANALYSIS OF AQUATIC BIOLOGICAL AND MICROBIOLOGICAL SAMPLES, edited by P. E. Greeson, T. A. Ehlke, G. A. Irwin, B. W. Lium, and K. V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 332 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-C1. LABORATORY THEORY AND METHODS FOR SEDIMENT ANALYSIS, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.
- 7-C1. FINITE DIFFERENCES 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.
- 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-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.

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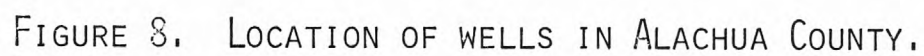
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WELL DESCRIPTIONS AND GROUND-WATER DATA

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KEY TO SITE LOCATIONS ON FIGURE 8
ALACHUA COUNTY

Index number	Site number	Page number
1	294207082163201	26



WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

ALACHUA COUNTY

WELL NUMBER.--294207082163201. Local Number Alachua 942-216-01. Sperry Rand Well at Gainesville, FL.

LOCATION.--Lat 29°42'07", long 82°16'32", in NW¼NE¼NE¼ sec.23, T.9 S., R.20 E., Hydrologic Unit 03080102, on north side of Gainesville Airport property, east of State Highway 24, and about 2 mi (3 km) north of State Highway 232 in Gainesville.

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

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 10 in (25 cm), depth 447 ft (136 m), cased to 175 ft (53 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of 1.5 in (3.8 cm) pipe, 0.16 ft (0.49 m) above land-surface datum.

DATUM.--Land-surface datum is 153.20 ft (46.70 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Additional measurements were made to better define low water conditions during the 1982 water year.

PERIOD OF RECORD.--June 1957 to December 1958; January 1961 to current year (bimonthly). 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, 66.71 ft (20.33 m) NGVD, Sept. 2, 1965; lowest measured, 49.51 ft (15.09 m) NGVD, Apr. 2, 1982.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
26...	1740	50.32	31...	2035	52.41
DEC			JUN		
02...	1420	50.34	03...	0800	52.08
17...	1000	50.24	JUL		
23...	0900	50.44	01...	1210	52.10
FEB			30...	1320	52.99
04...	1220	52.03	AUG		
11...	0915	51.46	03...	1520	53.29
MAR			31...	1200	52.09
01...	1512	49.66	SEP		
30...	1830	49.86	13...	1810	53.48
APR					
02...	0800	49.51			
MAY					
03...	0815	51.86			
04...	1715	51.86			

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

ALACHUA COUNTY

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS) (90095)	PH (STAND- ARD UNITS) (00400)	PH LAB (STAND- ARD UNITS) (00403)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD- NESS (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
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293623082181201 - ACPD #2 MON WELL SHED NR ALACHUA SK NR GVILLE (LAT 29 36 23 LONG 082 18 12)

JUL , 1982												
28...	1445	250	259	6.8	7.4	20	.6	K90	<1	<1	123	47
SEP												
27...	1230	275	276	6.5	7.5	10	.4	260	<1	<1	133	51

293625082181001 - SUPPLY WELL DNR DIST 3 HQ NR GAINESVILLE (LAT 29 36 25 LONG 082 18 10)

JUL , 1982												
28...	1440	320	338	7.0	7.3	30	.5	<1	<1	<1	134	49
SEP												
27...	1300	345	340	6.3	7.4	40	.4	790	K100	<1	132	48

293631082180501 - ACPD WELL NORTH OF ALACHUA SINK (LAT 29 36 31 LONG 082 18 05)

JUL , 1982												
28...	1300	460	452	6.7	7.3	20	.5	K160	<1	<1	199	72

DATE	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)	ALKA- LITY FIELD (MG/L AS CACO3) (00410)	ALKA- LITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	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)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)
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293623082181201 - ACPD #2 MON WELL SHED NR ALACHUA SK NR GVILLE (LAT 29 36 23 LONG 082 18 12)

JUL , 1982												
28...	1.3	3.4	<.1	126	124	5.0	5.6	.3	9.4	161	147	.06
SEP												
27...	1.3	3.0	.5	--	120	5.0	6.1	.4	8.2	175	148	.01

293625082181001 - SUPPLY WELL DNR DIST 3 HQ NR GAINESVILLE (LAT 29 36 25 LONG 082 18 10)

JUL , 1982												
28...	2.8	16	1.9	141	136	3.0	20	.2	9.6	209	188	.18
SEP												
27...	2.9	14	2.2	--	120	4.0	21	.2	8.3	208	174	.00

293631082180501 - ACPD WELL NORTH OF ALACHUA SINK (LAT 29 36 31 LONG 082 18 05)

JUL , 1982												
28...	4.7	13	1.5	--	214	12	15	.2	9.1	273	257	.05

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1981 TO SEPTEMBER 1982

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ALACHUA COUNTY--Continued

STATION NUMBER	STATION NAME	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF MEASURE- MENT	ELEV- ATION ABOVE NGVD (FEET)
294259082083401	OR. HTS. BPST. CHURCH WELL AT ORANGE HTS	29 42 59	082 08 34	01	82-05-04 82-09-13	76.51 78.13
294306082234701	SPARKS SUBSTITUTE WEST OF GAINESVILLE	29 43 06	082 23 47	01	81-11-04	40.80
294326082211801	OWENS-ILLINOIS-BACKYARD AT GAINESVILLE	29 43 26	082 21 18	01	82-05-04 82-09-20	43.91 44.92
294415082170701	NEWMANS WELL NR FAIRBANKS	29 44 15	082 17 07	01	82-05-04 82-09-20	57.04 58.40
294501082131001	CARY MEMORIAL FOREST WELL NR WALDO	29 45 01	082 13 10	01	82-05-04 82-09-13	69.95 70.92

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1981 TO SEPTEMBER 1982

ALACHUA COUNTY--Continued

STATION NUMBER	STATION NAME	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF MEASURE- MENT	ELEV- ATION ABOVE NGVD (FEET)
293724082224401	93722201 ARCHER ROAD VILLAGE 3620 SW ARCHER ROAD	29 37 24	082 22 44	01	82-08-04	48.57
293726082172001	937217 RADIO STATION W D V H KINCAID ROAD	29 37 26	082 17 20	01	82-08-04	47.24
293734082254601	937225 CHARLES HARRINGTON 3111 SW 81ST STREET	29 37 34	082 25 46	01	82-08-05	44.01
293737082212501	937221 UNIV OF FLORIDA E 6 ENTOMOLOGY	29 37 37	082 21 25	01	82-08-04	61.94
293743082213801	937221 UNIV OF FLORIDA I 19 SOLAR RESEARCH	29 37 43	082 21 38	01	82-08-04	49.93
293745082190301	937219 EVERGREEN CEMETARY 401 SE 21ST AVENUE	29 37 45	082 19 03	01	82-08-04	41.60
293746082253201	937225 ASA RUNKLE 7727 SW 24TH AVENUE	29 37 46	082 25 32	01	82-08-05	44.92
293748082264101	937226 SW 24TH AVENUE	29 37 48	082 26 41	01	82-08-05	43.85
293748082272001	93722702 VACANT SITE SW 24TH AVE	29 37 48	082 27 20	01	82-08-05	41.00
293750082213901	937221 UNIV OF FLORIDA E 1 SWINE AREA	29 37 50	082 21 39	01	82-08-04	49.74
293754082170301	93721701 ARTHUR QUINN 3195 SE 21ST AVENUE	29 37 54	082 17 03	01	82-08-04	48.60
293757082220301	937222 UNIV OF FLORIDA C 15	29 37 57	082 22 03	01	82-08-04	57.20
293803082193401	938219 MAIN ST SEWER PLANT WELL	29 38 03	082 19 34	01	82-08-04	48.13
293804082222301	938222 BYRON BRISTOL 3500 SW 20TH AVE	29 38 04	082 22 23	01	82-08-04	50.90
293804082224801	938222 OLD PS WELL SW 20TH AVENUE	29 38 04	082 22 48	01	82-08-04	49.01
293805082260801	938226 JAMES KING 1901 SW 88TH STREET	29 38 05	082 26 08	01	82-08-05	44.82
293816082220101	UF IRRIGATION WELL ON HULL RD AT UNIV.VILL.SO.	29 38 16	082 22 01	01	82-08-04	50.52
293818082195001	938219 UNIV OF FLORIDA E 3 WAVE TANK	29 38 18	082 19 50	01	82-08-04	48.41
293818082265801	938226 RANDY BASSETT	29 38 18	082 26 58	01	82-08-05	43.49
293826082222501	938222 UNIV OF FLORIDA E 8 ANIMAL RESEARCH	29 38 26	082 22 25	01	82-08-04	50.63
293830082252201	RUB MONITOR NO 4 AT KANAPAHA	29 38 30	082 25 22	01	82-05-04 82-08-05 82-09-14	39.56 41.46 41.60
293830082252202	RUB MONITOR NO 4 DEEP AT KANAPAHA	29 38 30	082 25 22	02	82-05-04 82-09-14	39.13 42.60
293836082214602	R2 LK ALICE DRAIN WELL NR GAINESVILLE	29 38 36	082 21 46	02	82-08-05	64.77
293840082191301	RUB WELL 6 AT GAINESVILLE	29 38 40	082 19 13	01	82-05-05	42.43
293840082262401	938226 TOM HURST 920 SW 91ST STREET	29 38 40	082 26 24	01	82-08-05	44.91
2938500822202401	938220 UNIV OF FLORIDA I 5 SW OF Ocala POND	29 38 50	082 20 24	01	82-08-04	46.46
2938510822205101	938220 UNIV OF FLORIDA C 14 NR REED LAB	29 38 51	082 20 51	01	82-08-04	45.33
293855082211401	938221 UNIV OF FLORIDA PERRY FIELD	29 38 55	082 21 14	01	82-08-04	45.94
2938570822203901	GEOLOGY DEPT WELL GAINESVILLE	29 38 57	082 20 39	01	82-05-05 82-09-21	45.86 48.00
293904082231501	93922303 FRED KRONMILLER 31 SW 41TH ST	29 39 04	082 23 15	01	82-08-05	48.00
293920082153601	SR 26 ROAD PRISON WELL NR GAINESVILLE	29 39 20	082 15 36	01	82-05-05 82-09-13	58.78 61.03
293934082262101	939226 FT CLARK CHURCH NEWBERRY ROAD	29 39 34	082 26 21	01	82-08-05	44.72
294030082264501	940226 J K KEEN 2501 NW98TH ST	29 40 30	082 26 45	01	82-08-05	43.12
294121082231801	PINE GROVE CHURCH AT GAINESVILLE	29 41 21	082 23 18	01	82-05-04 82-08-04 82-09-21	43.63 44.91 44.68
294202082221101	942222 OLD NORTHWOOD PS WELL	29 42 02	082 22 11	01	82-08-04	46.15
294209082173101	RUB WELL N-7 AT GAINESVILLE, FL.	29 42 09	082 17 31	01	82-09-20	38.60
294209082180301	94221801 CITY OF GAINESVILLE N-3 AT GAINESVILLE	29 42 09	082 18 03	01	82-05-05	29.64

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1981 TO SEPTEMBER 1982

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ALACHUA COUNTY

STATION NUMBER	STATION NAME	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF MEASURE- MENT	ELEV- ATION ABOVE NGVD (FEET)
292909082095101	92920901 11S21E36 YEARLING RESTAURANT	29 29 09	082 09 51	01	82-05-05 82-09-14	55.96 57.75
292951082174001	THOMAS 66STA WELL NR MICANOPY	29 29 51	082 17 40	01	82-05-04 82-09-13	53.75 56.38
293020082060701	93020602 11S22E27 TED POLK	29 30 20	082 06 07	01	82-05-05 82-09-13	60.59 61.92
293148082251201	BRICE WELL NR KANAPAHA	29 31 48	082 25 12	01	82-05-04 82-09-21	49.45 51.47
293203082200601	CHITTY WELL AT KIRKWOOD	29 32 03	082 20 06	01	82-05-04 82-09-14	66.67 58.30
293253082055701	DRISCOLL WELL NR LOCHLOOSA	29 32 53	082 05 57	01	82-05-05	71.47
293301082153501	JENSEN WELL NR MICANOPY	29 33 01	082 15 35	01	82-05-05 82-09-14	59.01 59.61
293329082243801	PARISH WELL NR WACAHOOTA	29 33 29	082 24 38	01	82-05-04 82-09-21	45.22 47.50
293542082253801	U.S.G.S./HOWELL WELL AT KANAPAHA	29 35 42	082 25 38	01	81-11-05 82-05-04 82-09-21	40.63 43.93 47.41
293544082165101	93521601 10S20E26 FLA DNR	29 35 44	082 16 51	01	82-05-05 82-08-04	53.37 36.50
293548082044102	TITUS WELL AT HANTHORN	29 35 48	082 04 41	02	82-05-05 82-09-13	77.89 84.23
293604082180101	ACPCD WELL SE OF ALACHUA SINK	29 36 04	082 18 01	01	82-05-05 82-08-04 82-09-14	51.42 51.27 54.28
293623082181201	ACPCD #2 MON WELL SHED NR ALACHUA SK NR GVILLE	29 36 23	082 18 12	01	82-08-04 82-09-14	47.46 55.17
293625082181001	SUPPLY WELL DNR DIST 3 HQ NR GAINESVILLE	29 36 25	082 18 10	01	82-08-04 82-09-14	46.62 52.07
293631082180501	ACPCD WELL NORTH OF ALACHUA SINK	29 36 31	082 18 05	01	82-05-05 82-08-04 82-09-14	31.53 46.61 51.39
293633082173201	936217 RICHARD WARE 4520 SE 26TH ST	29 36 33	082 17 32	01	82-08-04	40.57
293644082244201	RUB MONITOR NO 1 AT KANAPAHA	29 36 44	082 24 42	01	82-08-05 82-09-14	48.08 48.84
293644082244202	RUB MONITOR NO 1 DEEP AT KANAPAHA	29 36 44	082 24 42	02	82-05-04 82-09-14	45.38 47.88
293645082182201	93621805 NR KITE 4411 SE 14 TERRACE	29 36 45	082 18 22	01	82-08-04	44.44
293645082202701	93622003	29 36 45	082 20 27	01	82-05-05 82-09-21	52.92 54.57
293647082212401	936221 SOUTHWEST UNITED METHODIST CHURCH	29 36 47	082 21 24	01	82-08-04	51.95
293657082171701	936217 JOYNER CONST	29 36 57	082 17 17	01	82-08-04	51.56
293712082175201	937217 NUTTY WELL AT HORSE RANCH	29 37 12	082 17 52	01	82-08-04	43.55
293719082250801	RUB MONITOR NO 3 AT KANAPAHA	29 37 19	082 25 08	01	82-05-04 82-08-05 82-09-14	45.27 48.74 48.46
293719082250802	RUB MONITOR NO 3 DEEP AT KANAPAHA	29 37 19	082 25 08	02	82-05-04 82-09-14	45.92 48.16
293723082120102	93721202 10S21E15 DICK SURRENCY	29 37 23	082 12 01	02	82-05-05 82-09-13	77.48 78.32
293723082245701	RUB MONITOR NO 2 AT KANAPAHA	29 37 23	082 24 57	01	82-05-04 82-08-05 82-09-14	46.03 47.50 48.53
293723082245702	RUB MONITOR WELL NO 2 DEEP AT KANAPAHA	29 37 23	082 24 57	02	82-05-04 82-09-14	47.57 50.18

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

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ALACHUA COUNTY--Continued

DATE	NITRO- GEN, NITRITE (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 (MG/L AS N) (00630)	NITRO- GEN, AMMONIA (MG/L AS N) (00610)	NITRO- GEN, ORGANIC (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	NITRO- GEN, TOTAL (MG/L AS NO3) (71887)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)
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293623082181201 - ACPD #2 MON WELL SHED NR ALACHUA SK NR GVILLE (LAT 29 36 23 LONG 082 18 12)

JUL , 1982											
28...	.000	.06	.050	.22	.27	.33	1.4	.380	.200	2	2
SEP											
27...	.000	.01	.080	.06	.14	.15	.66	.490	.370	1	<2

293625082181001 - SUPPLY WELL DNR DIST 3 HQ NR GAINESVILLE (LAT 29 36 25 LONG 082 18 10)

JUL , 1982											
28...	.000	.18	.630	.51	1.14	1.3	5.8	.460	.320	1	3
SEP											
27...	.000	.00	.870	.29	1.16	1.1	5.1	.460	.440	1	3

293631082180501 - ACPD WELL NORTH OF ALACHUA SINK (LAT 29 36 31 LONG 082 18 05)

JUL , 1982											
28...	.000	.05	.060	.25	.31	.36	1.5	.620	.030	1	11

DATE	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
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293623082181201 - ACPD #2 MON WELL SHED NR ALACHUA SK NR GVILLE (LAT 29 36 23 LONG 082 18 12)

JUL , 1982											
28...	<1	10	2	310	3	11	.1	<1	<1	30	6
SEP											
27...	<1	10	1	260	<1	11	.1	<1	<1	30	8

293625082181001 - SUPPLY WELL DNR DIST 3 HQ NR GAINESVILLE (LAT 29 36 25 LONG 082 18 10)

JUL , 1982											
28...	<1	20	3	400	2	35	.1	<1	<1	36	30
SEP											
27...	<1	10	1	1300	1	43	.3	<1	<1	32	14

293631082180501 - ACPD WELL NORTH OF ALACHUA SINK (LAT 29 36 31 LONG 082 18 05)

JUL , 1982											
28...	1	10	6	1300	8	40	.3	<1	<1	89	15

WATER RESOURCES DATA FOR FLORIDA, 1982
Volume 1B: Northeast Florida

KEY TO SITE LOCATIONS ON FIGURE 9
BAKER COUNTY

Index number	Site number	Page number
1	301535082162001	34
2	302251082194901	34
2	302251082194902	35
3	302610082143001	35
4	302620082173501	36

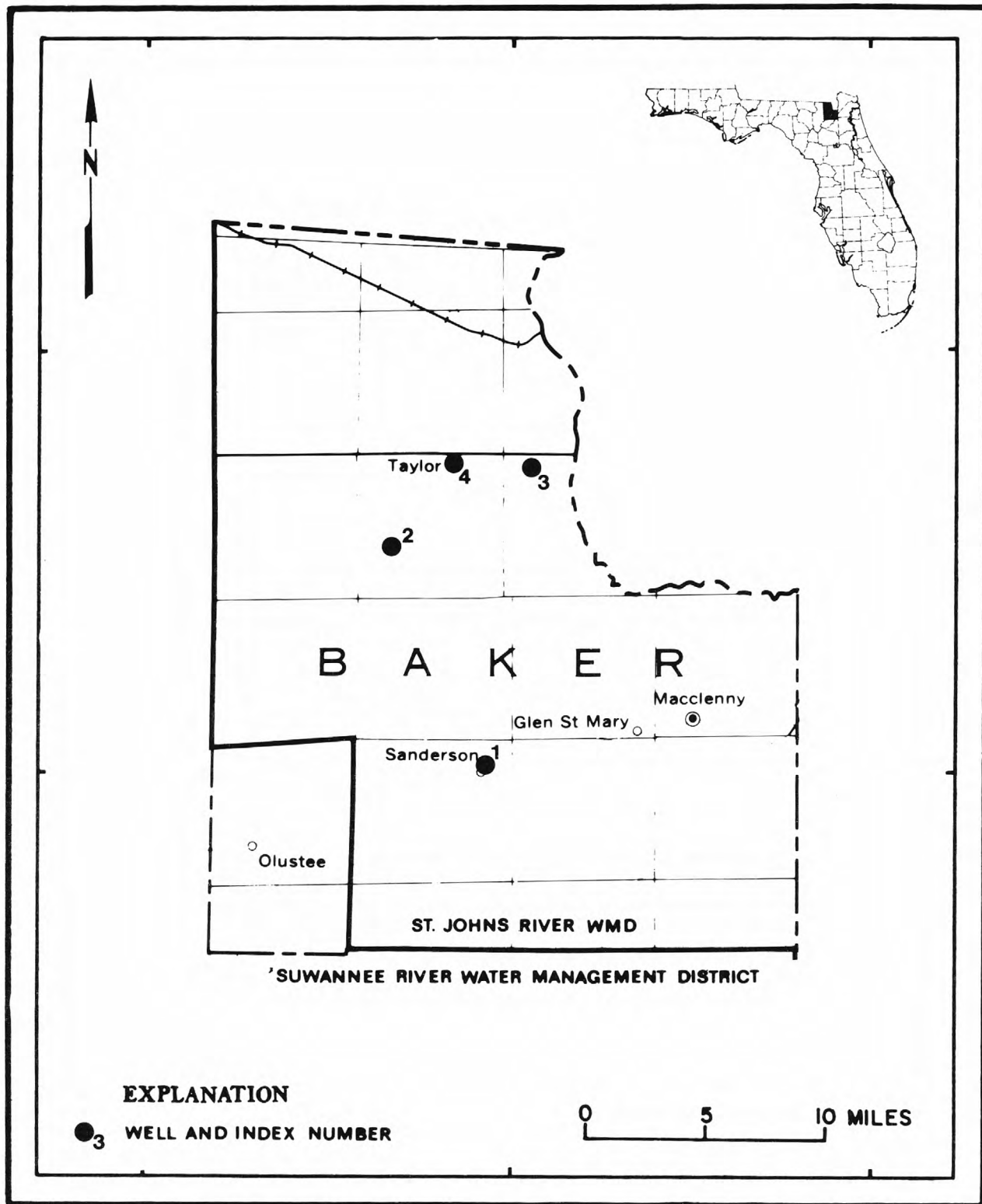


FIGURE 9. LOCATION OF WELLS IN BAKER COUNTY.

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

BAKER COUNTY

WELL NUMBER.--301535082162001. Local Number B-11. USGS Observation Well at Sanderson, FL.

LOCATION.--Lat 30°15'35", long 82°16'20", in SW¼NW¼SW¼ sec.1, T.3.S., R.20 E., Hydrologic Unit 03070204, 0.4 mi (0.6 km) northwest of Sanderson Public School and 0.7 mi (1.1 km) north of U.S. Highway 90 in Sanderson.

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

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 6 in (15 cm), depth 825 ft (251 m), cased to 282 ft (86 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of 6 in (15 cm) coupling, 2.30 ft (0.70 m) above land-surface datum.

DATUM.--Land-surface datum is 157.68 ft (48.06 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--August 1963 to current year (bimonthly). Records of water levels prior to 1975 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 64.05 ft (19.52 m) NGVD, Mar. 1, 1965; lowest measured, 48.57 ft (14.80 m) NGVD, July 30, 1979.

ELEVATION, IN FEET, NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 16...	1045	51.54	MAY 12...	1030	53.96
JAN 07...	1000	51.82	JUN 15...	1115	52.97
FEB 24...	1035	52.93	JUL 28...	0945	54.10
APR 13...	0910	53.62	SEP 08...	1035	54.46

WELL NUMBER.--302251082194901. Local Number ONF No. 6 Floridan. USGS Observation Well near Taylor, FL.

LOCATION.--Lat 30°22'51", long 82°19'49", NE¼SE¼NW¼ sec.29, T.1.S., R.20 E., Hydrologic Unit 03070204, 500 ft (152 m) south of U.S. Forest Road 232, in Osceola National Forest, 700 ft (213 m) east of intersection of U.S. Forest Road 232 and State Highway 250, and 5 mi (8 km) south of Taylor.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in (10 cm), depth 338 ft (103 m), cased to 320 ft (97 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top edge of shelter floor, 2.70 ft (0.80 m) above land-surface datum.

DATUM.--Land-surface datum is 127.77 ft (38.94 m) National Geodetic Vertical Datum of 1929 (levels by L.L. Lee and Associates).

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

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 56.00 ft (17.07 m) NGVD, Apr. 24, 1980; lowest, 48.36 ft (14.74 m) NGVD, Aug. 4, 5, 10, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	48.76	48.94	49.04	49.43	50.43	51.20	51.64	51.96	51.19	50.89	52.32	52.22
10	48.76	48.96	49.17	49.72	50.66	51.21	51.51	51.95	50.95	50.91	52.33	52.28
15	48.66	49.11	49.33	49.90	50.69	51.37	51.68	51.78	50.85	51.03	52.44	52.35
20	48.53	49.21	48.95	50.10	51.04	51.38	51.95	51.66	50.87	51.24	52.26	52.37
25	48.78	49.08	49.22	50.37	51.02	51.40	52.14	51.45	50.78	51.56	52.35	52.49
EOM	48.62	49.18	49.44	50.48	51.07	51.35	51.99	51.25	50.94	52.05	52.19	52.40
MAX	49.00	49.26	49.44	50.48	51.23	51.45	52.14	52.03	51.27	52.05	52.47	52.56
WTR YR 1982	MEAN	50.77	MAX	52.56	SEP 26	MIN	48.53	OCT 20				

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

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BAKER COUNTY

WELL NUMBER.--302251082194902. Local Number ONF No. 6 Hawthorn. USGS Observation Well near Taylor, FL.

LOCATION.--Lat 30°22'51", long 82°19'49", NE¼SE¼NW¼ sec.29, T.1.S., R.20 E., Hydrologic Unit 03070204, 500 ft (152 m) south of U.S. Forest Road 232, in Osceola National Forest, 700 ft (213 m) east of intersection of U.S. Forest Road 232 and State Highway 250 and 5 mi (8 km) south of Taylor.

AQUIFER.--Hawthorn sand and gravel aquifer of the Miocene System, Geologic Unit 122 HTRNS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in (10 cm), depth 122 ft (37 m), cased to 117 ft (36 m), screened from 117 to 122 ft (36 to 37 m).

INSTRUMENTATION.--Water level recorder. Measuring point: Top edge of shelter floor, 3.80 ft (1.16 m) above land-surface datum.

DATUM.--Land-surface datum is 127.79 ft (38.95 m) National Geodetic Vertical Datum of 1929 (levels by L.L. Lee and Associates).

PERIOD OF RECORD.--August 1976 to April 1982 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 120.11 ft (36.61 m) NGVD, Apr. 13, 1980; lowest, 114.05 ft (34.76 m) NGVD, Dec. 30,31, 1978.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	116.81	115.91	116.86	117.77	118.66	119.22	119.75					
10	116.64	116.16	116.97	117.92	118.90	119.39	119.79					
15	116.44	116.61	117.00	118.20	119.00	119.45	---					
20	116.23	116.86	116.89	118.40	119.32	119.33	---					
25	116.09	116.86	116.97	118.60	119.41	119.42	---					
EOM	115.85	116.82	117.35	118.70	119.33	119.70	---					
MAX	117.02	116.90	117.35	118.70	119.41	119.70	119.94					
WTR YR 1982	MEAN	117.86	MAX	119.94	APR 13	MIN	115.77	NOV 4				

WELL NUMBER.--302610082143001. Local Number B-12. Baker County Well near Taylor, FL.

LOCATION.--Lat 30°26'10", long 82°14'30", in NE¼NE¼SE¼, sec.6, T.1.S., R.21 E., Hydrologic Unit 03070204, 70 ft (21 m) west of Taylor Elementary School, 545 ft (166 m) south of State Highway 122, and 2.9 mi (4.7 km) east of Taylor.

AQUIFER.--Hawthorn sand aquifer of the Tertiary System, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 2 in (5 cm), depth 198 ft (60 m), cased to 102 ft (31 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of 2 in (5 cm) casing, 0.50 ft (0.15 m) above land-surface datum.

DATUM.--Altitude of land-surface datum is 120 ft (36.6 m), from topographic map.

REMARKS.--Pump was on well from August 1981 to June 1982, no readings were obtained during this period.

PERIOD OF RECORD.--December 1960 to current year (bimonthly). Records of water levels prior to 1975 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.96 ft (4.26 m) below land-surface datum Sept. 15, 1964; lowest measured, 22.12 ft (6.74 m) below land-surface datum, Dec. 5, 1978.

WATER LEVEL, IN FEET, BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)
JUL 28...	1200	18.70	SEP 08...	1400	17.77

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

BAKER COUNTY

WELL NUMBER.--302620082173501. Local Number B-9. USGS Observation Well at Taylor, FL.

LOCATION.--Lat 30°26'20", long 82°17'35", in NW¼SE¼N¼ sec.3, T.1 S., R.20 E., Hydrologic Unit 03070204, 50 ft (15 m) northeast of intersection of State Highways 125 and 250, and 90 ft (27 m) northeast of General Store in Taylor.

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

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 6 in (15 cm), depth 905 ft (276 m), cased to 417 ft (127 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of 6 in (15 cm) coupling, 2.00 ft (0.61 m) above land-surface datum.

DATUM.--Land-surface datum is 116.30 ft (35.45 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--October 1963 to current year (bimonthly). Records of water levels prior to 1973 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 62.50 ft (19.05 m) NGVD, Jan. 1, 1973; lowest measured, 47.88 ft (14.59 m) NGVD, Aug. 4, 1981.

ELEVATION, IN FEET, NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV			MAY		
16...	1145	48.72	12...	1045	51.40
JAN			JUN		
07...	1020	48.96	15...	1230	50.34
FEB			JUL		
24...	1210	50.45	28...	1015	51.80
APR			SEP		
13...	0930	51.06	08...	1230	51.70

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1981 TO SEPTEMBER 1982

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BAKER COUNTY

STATION NUMBER	STATION NAME	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF MEASURE- MENT	ELEV- ATION ABOVE NGVD (FEET)
302115082232201	ONF #5 FLORIDAN WELL	30 21 15	082 23 22	01	81-11-03	48.94
302251082194901	ONF #6 FLORIDAN WELL	30 22 51	082 19 49	01	81-11-03	48.71
					82-05-12	51.82
					82-05-27	51.34
					82-08-09	52.28
					82-09-08	52.18
302610082143001	B-12	30 26 10	082 14 30	01	82-07-28	101.30

WATER RESOURCES DATA FOR FLORIDA, 1982
Volume 1B: Northeast Florida

KEY TO SITE LOCATIONS ON FIGURE 10
BREVARD COUNTY

Index number	Site number	Page number
1	275508080510701	40
2	275955080434601	41
3	282245080471601	42

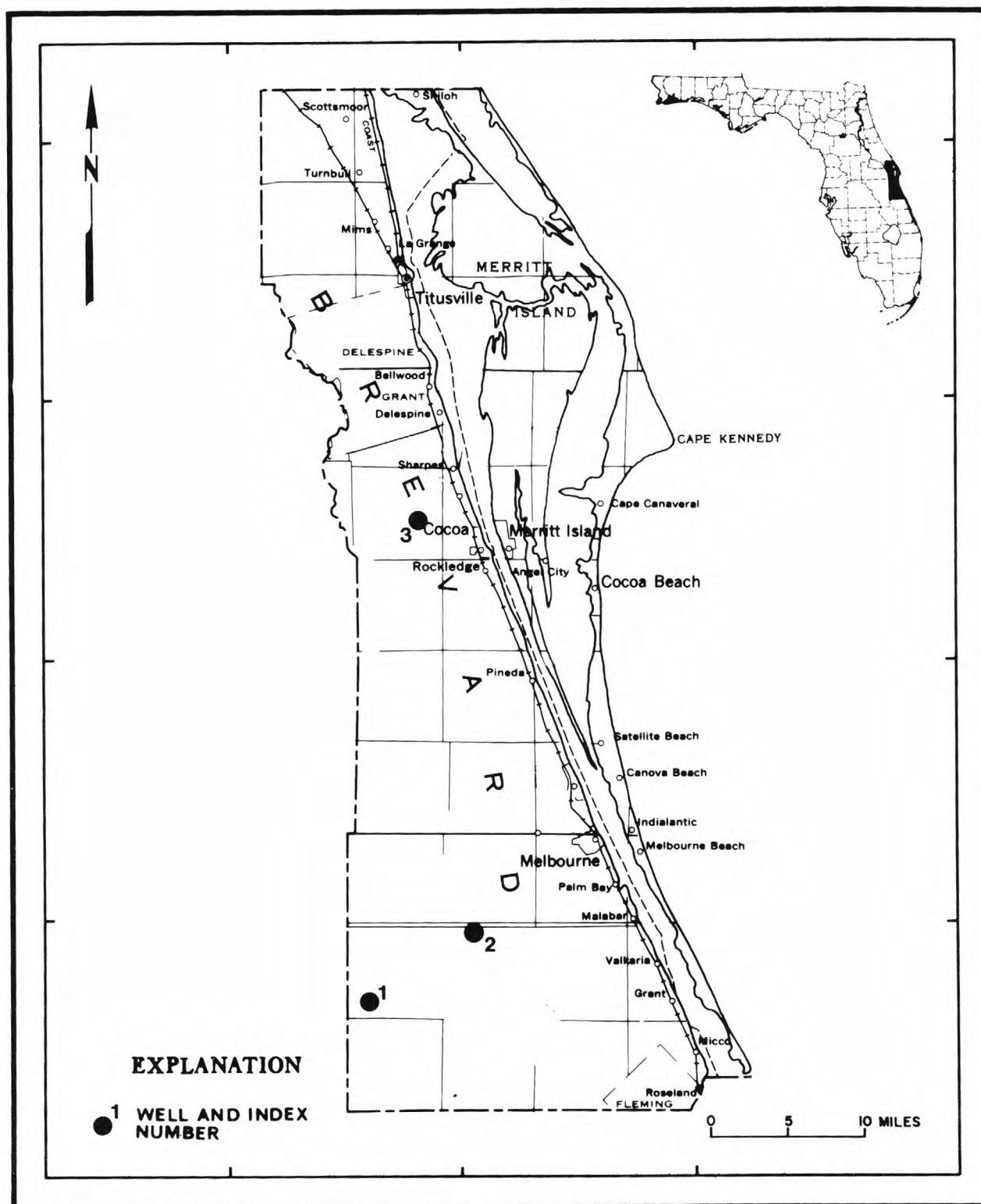


FIGURE 10. LOCATION OF WELLS IN BREVARD COUNTY.

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

BREVARD COUNTY

WELL NUMBER.--275508080510701. Local Number 755-051-001. Ten-Mile Ranch Well near Kenansville, FL.

LOCATION.--Lat 27°55'08", long 80°51'07", in SW¼SW¼NW¼ sec.32, T.29 S., R.35 E., Hydrologic Unit 03080101, 2,500 ft (760 m) west of private road, 10 mi (16 km) east of U.S. Highway 441, and 8 mi (13 km) east of Kenansville.

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

WELL CHARACTERISTICS.--Drilled, irrigation, artesian well, diameter 3 in (8 cm), depth 272 ft (83 m), casing length unknown.

INSTRUMENTATION.--Pressure gage measured. Measuring point: Top of concrete slab, 0.51 ft (0.16 m) above land-surface datum.

DATUM.--Land-surface datum is 28.07 ft (8.56 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1978, land-surface datum was considered to be 28 ft (8.5 m), from topographic map.

REMARKS.--The figures of water levels as elevation NGVD prior to Oct. 1, 1979, are in error. Revised records are available in files of the Geological Survey.

PERIOD OF RECORD.--June 1956 (annually); 1957 (semiannually); May 1973 to current year (bimonthly). 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, 46.07 ft (14.04 m) NGVD, July 11, 1957; lowest measured, 37.12 ft (11.31 m) NGVD, May 13, 1974.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAR		
05...	1015	40.28	15...	1000	40.08
NOV			MAY		
30...	0940	39.18	10...	1520	42.52
JAN					
20...	1330	39.58			

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

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BREVARD COUNTY

WELL NUMBER.--275955080434601. Local Number 759-043-02. Platt Well near Melbourne, FL.

LOCATION.--Lat 27°59'55", long 80°43'46", in NE¼NE¼NW¼ sec.4, T.29 S., R.36 E., Hydrologic Unit 03080203, on south side of extension of State Highway 514, 3.5 mi (5.6 km) west of State Highway 509, and 9.5 mi (15.3 km) southwest of Melbourne.

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

WELL CHARACTERISTICS.--Drilled, irrigation, artesian well, diameter 4 in (10 cm), depth 447 ft (136 m), cased to 125 ft (38 m).

INSTRUMENTATION.--Pressure-gage measured. Measuring point: Top of 4 in (10 cm) tee, 1.25 ft (0.38 m) above land-surface datum.

DATUM.--Land-surface datum is 21.78 ft (6.64 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1979, land-surface datum was considered to be 22.09 ft (6.73 m).

REMARKS.--Additional measurements were made to better define low water conditions during the 1982 water year.

PERIOD OF RECORD.--August 1934, July 1942, November 1946 (annually); May 1947 to December 1949 (semiannually); January 1950 to November 1975 (bimonthly); December 1977 to current year (bimonthly). 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, 52.53 ft (16.01 m) NGVD, Aug. 14, 1934; lowest measured, 34.23 ft (10.43 m) NGVD, May 19, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
20...	1200	38.93	11...	1555	40.23
29...	1110	38.73	24...	1150	39.03
NOV			JUN		
30...	1330	39.03	03...	1435	40.43
DEC			30...	1000	41.53
03...	1025	37.18	JUL		
15...	1120	38.73	30...	1100	41.23
30...	1050	38.53	AUG		
JAN			04...	1300	41.03
29...	0805	38.53	30...	--	41.43
FEB			SEP		
09...	1050	39.03	14...	1025	41.33
MAR			27...	1200	42.43
01...	1200	39.33	28...	--	42.43
31...	1015	39.73			
APR					
29...	1110	40.73			

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

BREVARD COUNTY

WELL NUMBER.--282245080471601. Local Number 822-047-02. USGS Observation Well at Cocoa, FL.

LOCATION.--Lat 28°22'45", long 80°47'16", in SW¼SW¼ sec.24, T.24 S., R.35 E., Hydrologic Unit 03080101, on east side of Cox Road, 1.3 mi (2.1 km) north of State Highway 520 in Cocoa.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in (10 cm), depth 129 ft (39 m), cased to 114 ft (35 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of shelter floor, 9.14 ft (2.79 m) above land-surface datum.

DATUM.--Land-surface datum is 24.78 ft (7.55 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--August 1955 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, 34.69 ft (10.57 m) NGVD, corrected, Aug. 16, 1955; lowest, 22.57 ft (6.88 m) NGVD, May 23, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	26.50	26.26	25.98	25.62	25.79	26.54	26.73	27.36	27.14	27.69	28.21	28.29
10	26.46	26.43	25.96	25.78	26.08	26.54	26.88	27.29	27.16	27.75	28.07	28.45
15	26.40	26.68	25.88	25.57	26.20	26.67	27.03	26.82	27.10	27.70	28.21	28.57
20	26.17	26.67	25.41	25.53	26.54	26.64	27.12	26.20	27.38	27.91	28.21	28.50
25	26.11	26.47	25.36	25.77	26.47	26.51	27.20	26.26	27.59	27.98	28.30	28.67
EOM	25.96	26.29	25.68	25.78	26.51	26.44	27.35	26.83	27.70	28.09	28.30	28.74
MAX	26.72	26.71	26.28	25.88	26.72	26.69	27.35	27.39	27.72	28.12	28.31	28.76
WTR YR 1982	MEAN	26.88	MAX	28.76	SEP 26	MIN	25.28	DEC 24				

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1981 TO SEPTEMBER 1982

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BREVARD COUNTY

STATION NUMBER	STATION NAME					LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF MEASURE- MENT	ELEV- ATION ABOVE NGVD (FEET)
274925080361701	749036002 30S37E35 433 37527 FELLSMERE TP					27 49 25	080 36 17	01	82-05-13 82-09-14	39.56 41.46
274950080440901	749044002 30S36ESG SG 37517 FELLSMERE SW TP					27 49 50	080 44 09	01	81-12-01	31.80
275119080482401	751048004 30S35E22 324 31140 KENANSVILLE SE TP					27 51 19	080 48 24	01	82-05-10 82-09-13	41.60 42.20
275125080485501	751048003 30S35E22 123 31139 KENANSVILLE SE TP					27 51 25	080 48 55	01	82-05-10 82-09-13	40.60 42.10
275136080402501	751040004 30S36ESG SG 37520 FELLSMERE SW TP					27 51 36	080 40 25	01	81-12-01	39.70
275154080373601	751037001					27 51 54	080 37 36	01	81-12-01	37.50
275422080374001	754037007 29S37E04 232 09840 FELLSMERE NW TP					27 54 22	080 37 40	01	81-12-01 82-05-13 82-09-14	37.50 38.10 39.80
275425080283101	754028002 30S39E06 321 01015 SEBASTIAN NW TP					27 54 25	080 28 31	01	82-05-12 82-09-14	32.67 36.17
275435080311001	754031001 29S38E34 343 04383 GRANT 82					27 54 35	080 31 10	01	82-05-13 82-09-14	35.20 36.60
275508080510701	75505101 TEN-MILE RANCH NR KENANSVILLE, FL					27 55 08	080 51 07	01	81-10-05 81-11-30 82-01-20 82-03-15 82-05-10	40.28 39.18 39.58 40.08 42.52
275629080504901	756050001 29S35E20 243 22042 KENANSVILLE NE TP					27 56 29	080 50 49	01	82-05-10 82-09-13	41.67 42.47
275720080300601	757030004 29S38E14 334 01412 GRANT 25					27 57 20	080 30 06	01	82-05-12 82-09-14	35.40 37.50
275831080513501	758051001 29S35E07 432 37588 KENANSVILLE NE TP					27 58 31	080 51 35	01	82-05-10 82-09-13	42.47 43.07
275948080393501	759039005 29S37E06 322 37578 FELLSMERE NW TP					27 59 48	080 39 35	01	82-05-13 82-09-14	37.75 39.55
280008080342601	800034072 28S37E36 424 08182 MELBOURNE EAST TP					28 00 08	080 34 26	01	82-05-13 82-09-14	32.18 33.63
280256080325601	802032002 28S38E17 432 1645 MELBOURNE EAST 49					28 02 56	080 32 56	01	82-05-12 82-09-14	27.10 29.50
280343080510001	803050002 28S35E08 341 37590 DEER PARK SE TP					28 03 47	080 50 50	01	82-05-11 82-09-13	41.70 42.50
280348080431201	803043006 28S36E10 313 37563 MELBOURNE WEST TP					28 03 38	080 43 12	01	82-05-11 82-09-14	37.20 41.10
280532080514501	805051003 27S35E31 331 30139 DEER PARK SE TP					28 05 32	080 51 45	01	81-12-03 82-05-11	39.30 41.50
280534080465101	805046002 27S35E36 331 37472 DEER PARK SE TP					28 05 34	080 46 51	01	82-05-11 82-09-14	40.93 41.43
280653080422701	806042001 27S36E22 144 37464 MELBOURNE WEST TP					28 06 53	080 42 27	01	82-05-13 82-09-16	37.73 40.13
280746080501601	DSR-26 DEER PARK NE					28 07 46	080 50 16	01	82-05-11	39.50
281109080373701	811037014 26S37E33 122 18134 EAU GALLIE 09					28 11 09	080 37 37	01	82-05-12 82-09-15	29.22 29.52
281129080434101	811043002 26S36E28 414 28429 EAU GALLIE TP					28 11 29	080 43 41	01	82-05-13 82-09-16	37.90 39.60
281215080474601	812047001 26S35E23 234 28390 DEER PARK NE TP					28 12 12	080 47 31	02	82-05-13 82-09-16	38.00 39.70
281306080401201	813040016 26S37E18 233 24103 EAU GALLIE 88					28 13 06	080 40 12	01	82-05-14 82-09-15	31.02 33.02
281347080433201	813043-- 26S36E09 DUDA B-3					28 13 47	080 43 32	01	82-05-13 82-09-16	34.30 36.40
281447080392601	814039076 26S36E06 444 37577 EAU GALLIE 79					28 14 47	080 39 26	01	82-05-12 82-09-15	28.12 29.72

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1981 TO SEPTEMBER 1982

BREVARD COUNTY--Continued

STATION NUMBER	STATION NAME				LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF MEASURE- MENT	ELEV- ATION ABOVE NGVD (FEET)
281509080363001	815036012 26S37E03 224 01562 COCOA BEACH	TP			28 15 09	080 36 30	01	82-05-12 82-09-15	27.70 28.60
281744080444001	817044004 25S36E20 I-95 & FISKE BLVD				28 17 44	080 44 40	01	82-05-13 82-09-16	32.64 34.64
281905080375001	819037196 25S37E16 212 27337 COCOA	04			28 19 05	080 37 50	01	82-05-12 82-09-15	20.50 21.95
282204080514301	822051001 24S35E30 342 00767 LAKE POINSETT				28 22 02	080 51 26	01	82-05-14 82-09-16	30.68 32.88
282427080353301	JETTY PARK				28 24 27	080 35 33	01	82-05-12 82-09-15	17.54 19.68
282458080420701	824042001 24S36E11 241 00301 COURTENAY	TP			28 24 58	080 42 07	01	82-05-12 82-09-16	15.27 16.87
282647080331301	826033001 23S38E32 321 28485 CAPE CANAVERAL	TP			28 26 47	080 33 13	01	82-05-12 82-09-15	20.40 22.30
282929080343601	829034001 23S37E13 222 28488 CAPE CANAVERAL	TP			28 29 29	080 34 36	01	82-05-12 82-09-15	16.98 18.48
283124080404301	KSC GROVE				28 31 24	080 40 43	01	82-05-12	12.10
283236080535101	832053001 22S34ESG --- 00773 TITUSVILLE SW	TP			28 32 36	080 53 51	01	82-05-14 82-09-17	17.40 19.10
283644080574901	836057003 22S34E06 111 00777 TITUSVILLE SW	TP			28 36 44	080 57 49	01	82-09-17	18.60
283835080424501	838042002 21S36E27 MERRITT ISLE WILDLIFE				28 38 35	080 42 45	01	82-05-12 82-09-15	9.88 9.93
283906080514501	839051005 21S35E19 431 00864 MIMS	15			28 39 06	080 51 45	01	82-05-14	12.62
283906080514501	839051005 21S35E19 431 00864 MIMS	15			28 39 06	080 51 45	01	82-09-17	13.89
283955080565701	PB PLASTIC				28 39 55	080 56 57	01	82-05-14 82-09-17	12.19 14.03
284116080514001	841051226 21S35E06 343 05242 MIMS	20			28 41 16	080 51 42	01	82-05-14 82-09-17	4.45 4.90

KEY TO SITE LOCATIONS ON FIGURE 11
CLAY COUNTY

Index number	Site number	Page number
1	294807082020903	47
2	300649081485901	47
3	300656081463401	48
4	300834081421301	48
5	300957081423501	49

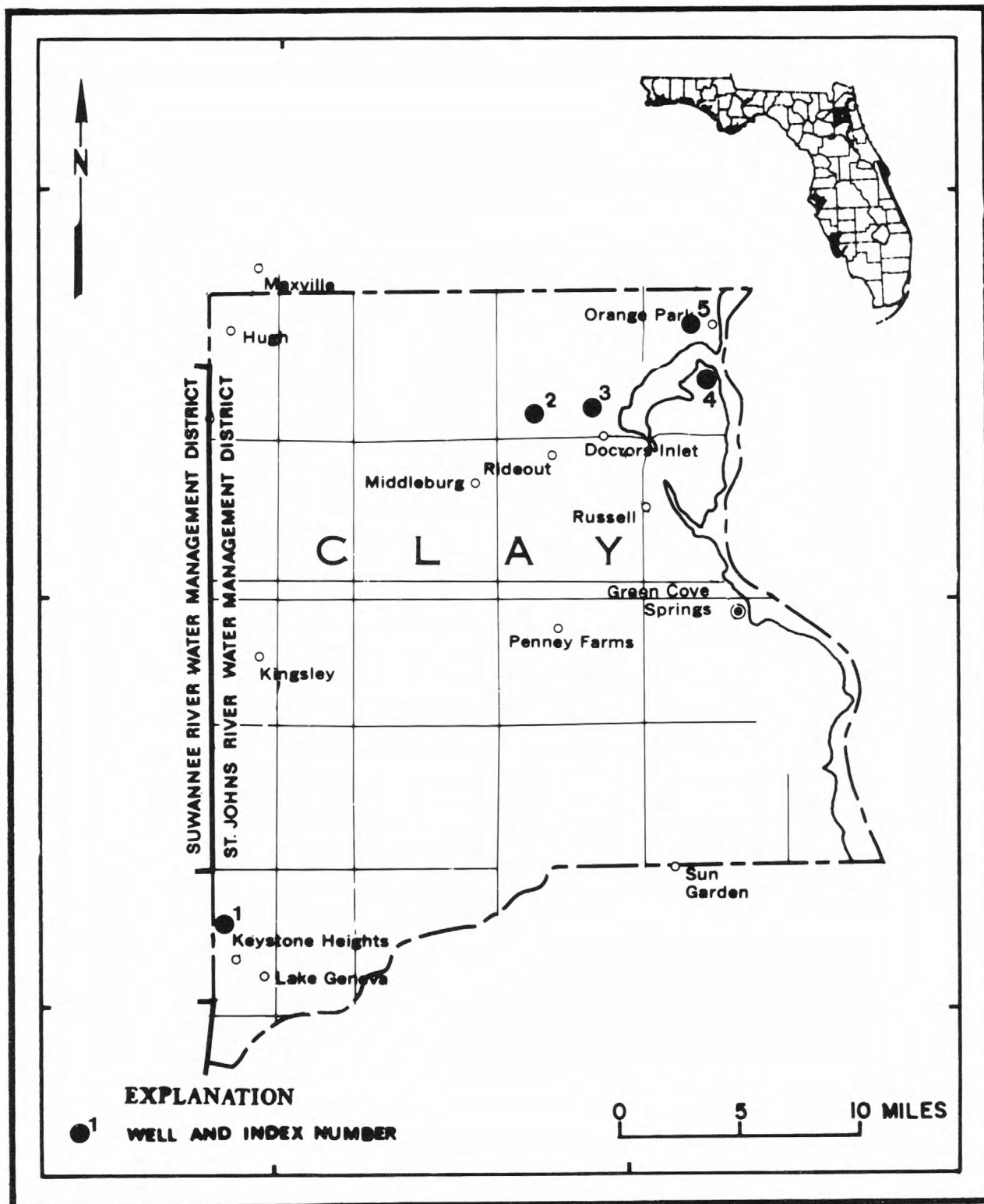


FIGURE 11. LOCATION OF WELLS IN CLAY COUNTY.

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

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CLAY COUNTY

WELL NUMBER.--294807082020903. Local Clay Number 948-202-8. USGS Observation Well at Keystone Heights, FL.

LOCATION.--Lat 30°48'07", long 81°02'09", in NW¼NE¼ sec.18, T.8 S., R.23 E., Hydrologic Unit 03080103, on graded road on west side of Brooklyn Lake, 1.2 mi (1.9 km) north of intersection of State Highways 100 and 21 at Keystone Heights.

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

WELL CHARACTERISTICS.--Drilled, test, artesian well, diameter 6 in (15 cm), depth 250 ft (76 m), cased to 193 ft (59 m).

INSTRUMENTATION.--Water level recorder. Measuring point: Top of 6 in (15 cm) coupling, 2.00 ft (0.61 m) above land-surface datum.

DATUM.--Land-surface datum is 145.16 ft (44.24 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--August 1960 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, 89.50 ft (27.28 m) NGVD, Oct. 31, 1960; lowest, 79.77 ft (24.31 m) NGVD, Dec. 11, 1977.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	81.02	80.83	80.53	80.39	81.00	81.06	81.31	81.96	81.67	82.27	82.87	83.47
10	80.90	80.81	80.59	80.40	81.08	81.19	81.51	81.86	81.56	82.46	83.01	83.66
15	80.81	80.88	80.67	80.50	80.94	81.21	81.81	81.55	81.57	82.48	83.24	83.72
20	80.66	80.83	80.26	80.78	81.04	81.07	81.98	81.42	81.91	82.63	83.26	83.76
25	80.89	80.71	80.51	80.92	80.89	81.11	82.05	81.48	82.08	82.73	83.45	83.85
EOM	80.68	80.78	80.62	81.05	80.91	81.13	82.02	81.56	82.24	82.82	83.56	83.96
MAX	81.27	80.91	80.78	81.05	81.16	81.35	82.07	82.04	82.24	82.82	83.57	83.98
WTR YR 1982	MEAN	81.63	MAX	83.98	SEP 26	MIN	80.26	DEC 20				

WELL NUMBER.--300649081485901. Local Number C-5. John Huntley Well near Middleburg, FL.

LOCATION.--Lat 30°06'49", long 81°48'59", SE¼SW¼SW¼, sec.28, T.4 S., R.25 E., Hydrologic Unit 03080103, 200 ft (61 m) north of State Highway 21, 0.4 mi (0.6 km) southwest of Little Black Creek and 3.8 mi (6.1 km) northeast of Middleburg.

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

WELL CHARACTERISTICS.--Drilled, artesian well, diameter 4 in (10 cm), depth 530 ft (162 m).

INSTRUMENTATION.--Pressure gage. Measuring point: Top of flange of 4 in (10 cm) valve, 2.50 ft (0.76 m) above land-surface datum.

DATUM.--Land-surface datum is 24.02 ft (7.32 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--1940-41, 1944 to September 1978 (semiannually), January 1979 to current year (bimonthly). Records of water levels prior to May 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 60.92 ft (18.57 m) NGVD, Apr. 26, 1944; lowest measured, 38.32 ft (11.68 m) NGVD, June 22, July 28, 1981.

ELEVATION, IN FEET, NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 10...	1410	40.92	JUN 28...	1035	40.92
JAN 21...	1410	41.22	JUL 29...	1345	41.62
FEB 24...	1450	41.82	SEP 15...	1025	42.92
MAY 10...	0930	40.92			

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

CLAY COUNTY

WELL NUMBER.--300656081463401. Local Number C-94. USGS Test Well near Orange Park, FL.

LOCATION.--Lat 30°06'56", long 81°46'34", in SW¼SE¼SW¼, sec.26, T.4 S., R.25 E., Hydrologic Unit 03080103, at prison farm 150 ft (46 m) east of State Highway 224, 1.5 mi (2.4 km) south of intersection of State Highways 224 and 21, and 5.0 mi (8.0 km) southwest of Orange Park.

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

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 8 in (20 cm), depth 1,197 ft (365 m) cased to 391 ft (119 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of 12 in (30 cm) flange, 3.85 ft (1.17 m) above land-surface datum.

DATUM.--Land-surface datum is 46.22 ft (14.09 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--February 1974 to April 1979 (quarterly), July 1979 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 41.25 ft (12.57 m) NGVD, Feb. 27, 1975; lowest measured, 33.34 ft (10.16 m) NGVD, May 21, 1981.

ELEVATION, IN FEET, NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV			MAY		
03...	0940	37.28	11...	1130	36.70
DEC			JUN		
01...	0940	37.70	28...	1050	37.40
JAN			JUL		
04...	1025	38.87	29...	1340	38.34
FEB			AUG		
24...	1500	38.33	25...	1200	38.79
MAR			SEP		
31...	1315	37.87	14...	0940	39.21
APR					
27...	1340	38.04			

WELL NUMBER.--300834081421301. Local Number C-7. Hanson Well near Orange Park, FL.

LOCATION.--Lat 30°08'34", long 81°42'13", in land grant 44, T.4 S., R.26 E., Hydrologic Unit 03080103, 350 ft (107 m) north of Creighton Road, 500 ft (152 m) west of U.S. Highway 17 and 1.5 mi (2.4 km) south of Orange Park.

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

WELL CHARACTERISTICS.--Drilled, domestic, artesian well, diameter 3 in (8 cm), depth 550 ft (168 m).

INSTRUMENTATION.--Pressure gage. Measuring point: Top of 3 in (8 cm) tee, 1.0 ft (0.30 m) above land-surface datum.

DATUM.--Altitude of land-surface datum is 5.0 ft (1.52 m), from topographic map.

PERIOD OF RECORD.--May 1978 to September 1980 (biannually), May 1981 to current year (monthly). Records of water levels prior to October 1981 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.60 ft (9.02 m) above land-surface datum, Oct. 9, 1979; lowest measured, 21.00 ft (6.40 m) above land-surface datum, June 29, 1981.

WATER LEVEL, IN FEET, BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)
NOV			APR		
03...	0920	-26.80	27...	1350	-27.20
DEC			JUN		
01...	0920	-26.80	28...	1105	-26.40
JAN			JUL		
04...	1005	-27.20	29...	1415	-27.20
FEB			AUG		
07...	1015	-27.10	26...	1430	-27.10
24...	1515	-27.30			
MAR					
31...	1300	-27.20			

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

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CLAY COUNTY

WELL NUMBER.--300957081423501. Local Number C-2. A.H. Harrington Well at Orange Park, FL.

LOCATION.--Lat 30°09'57", long 81°42'35", in land grant 41, T.4 S., R.26 E., Hydrologic Unit 03080103, 350 ft (107 m) north of Kingsley Avenue, 150 ft (46 m) east of Railroad Avenue at Orange Park.

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

WELL CHARACTERISTICS.--Drilled, domestic, artesian well, diameter 3 in (8 cm), depth 450 ft (137 m).

INSTRUMENTATION.--Pressure gage. Measuring point: Concrete slab at base of spigot at land-surface datum.

DATUM.--Land-surface datum is 15.80 ft (4.82 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--1934, 1958, 1966 to 1977 (annually), April 1979 to current year (bimonthly). Records of water levels prior to February 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 57.50 ft (17.53 m) NGVD, May 16, 1934; lowest measured, 25.30 ft (7.71 m) NGVD, May 12, 1981.

ELEVATION, IN FEET, NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV			JUL		
10...	1445	31.00	29...	1420	31.10
FEB			SEP		
24...	1525	31.00	15...	1005	32.30
JUN					
28...	1005	30.30			

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1981 TO SEPTEMBER 1982

CLAY COUNTY

STATION NUMBER	STATION NAME	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF MEASURE- MENT	ELEV- ATION ABOVE NGVD (FEET)
294307082020903	C-943-202-3	29 43 07	082 02 09	03	82-05-10 82-09-13	84.92 86.36
294313082024601	MELROSE WELL	29 43 13	082 02 46	01	81-11-04 82-08-05	83.65 85.99
294807082020903	94820208 08S23E18 21-	29 48 07	082 02 09	03	82-05-10 82-09-13	81.72 83.60
295315081532201	C-113	29 53 17	081 53 22	01	82-05-11 82-09-13	75.77 76.84
295353081381901	C-111 953-138-1 GREEN COVE SPRS QUAD 1	29 53 53	081 38 19	01	82-05-11 82-09-15	29.60 34.30
295615081394701	C-36	29 56 15	081 39 47	01	82-05-11 82-09-15	34.20 37.40
295835081515001	C-17	29 58 35	081 51 50	01	82-05-10 82-09-15	70.10 71.67
295838081582501	C-104	29 58 38	081 58 25	01	82-05-11 82-09-13	69.75 71.27
295847081380601	C-78	29 58 47	081 38 06	01	82-05-11 82-09-15	14.20 23.90
295900081403201	C-82	29 59 00	081 40 32	01	82-05-11 82-09-15	24.80 27.10
300048081414301	C-30	30 00 48	081 41 43	01	82-05-11 82-09-15	30.97 34.57
300057081513501	C-56	30 00 57	081 51 35	01	82-05-10 82-09-14	66.40 68.00
300300081422501	C-16	30 03 00	081 42 25	01	82-05-11 82-09-13	29.60 32.00
300450081482801	C-18	30 04 50	081 48 28	01	82-05-11 82-09-14	47.10 49.40
300604081441501	C-22	30 06 04	081 44 15	01	82-05-11 82-09-14	33.70 36.30
300850081552001	C-29	30 08 50	081 55 20	01	82-05-10 82-09-13	52.50 53.80
300957081423501	C-2	30 09 57	081 42 35	01	81-11-10 82-02-24 82-06-28 82-07-29 82-09-15	31.00 31.00 30.30 31.10 32.30
301018081415101	C-4	30 10 18	081 41 51	01	82-05-11 82-09-15	27.80 34.10

KEY TO SITE LOCATIONS ON FIGURE 12
DUVAL COUNTY

Index number	Site number	Page number	Index number	Site number	Page number
1	301111081333402	*	15	301844081403801	*
2	301144081413801	*	16	301852081234201	59
3	301333081442502	*	17	301900081342801	59
4	301335081352601	*	17	302003081541202	*
5	301422081541201	53	18	302113081333702	*
5	301422081541202	53	19	302215081243101	*
5	301422081541203	54	20	302304081383202	60
6	301503081331101	*	21	302307081293801	60
7	301522081331301	54	22	302351081390201	*
8	301551081415701	55	23	302410081443501	61
9	301617081421601	*	24	302416081522601	61
10	301647081274101	*	24	302416081522602	62
11	301725081584501	55	25	302538081253101	*
12	301758081463101	*	26	302540081361001	62
12	301758081463102	*	27	302608081354901	63
13	301806081385002	*	27	302608081354902	63
13	301806081385003	56	27	302608081354903	64
13	301806081385004	56	28	302633081333001	*
13	301806081385005	*	29	302801081375101	64
14	301817081374901	57	30	302835081390301	*
14	301817081374902	58			

*Well discontinued September 30, 1981. Water levels are published in the section of this report entitled MISCELLANEOUS WATER LEVEL MEASUREMENTS.

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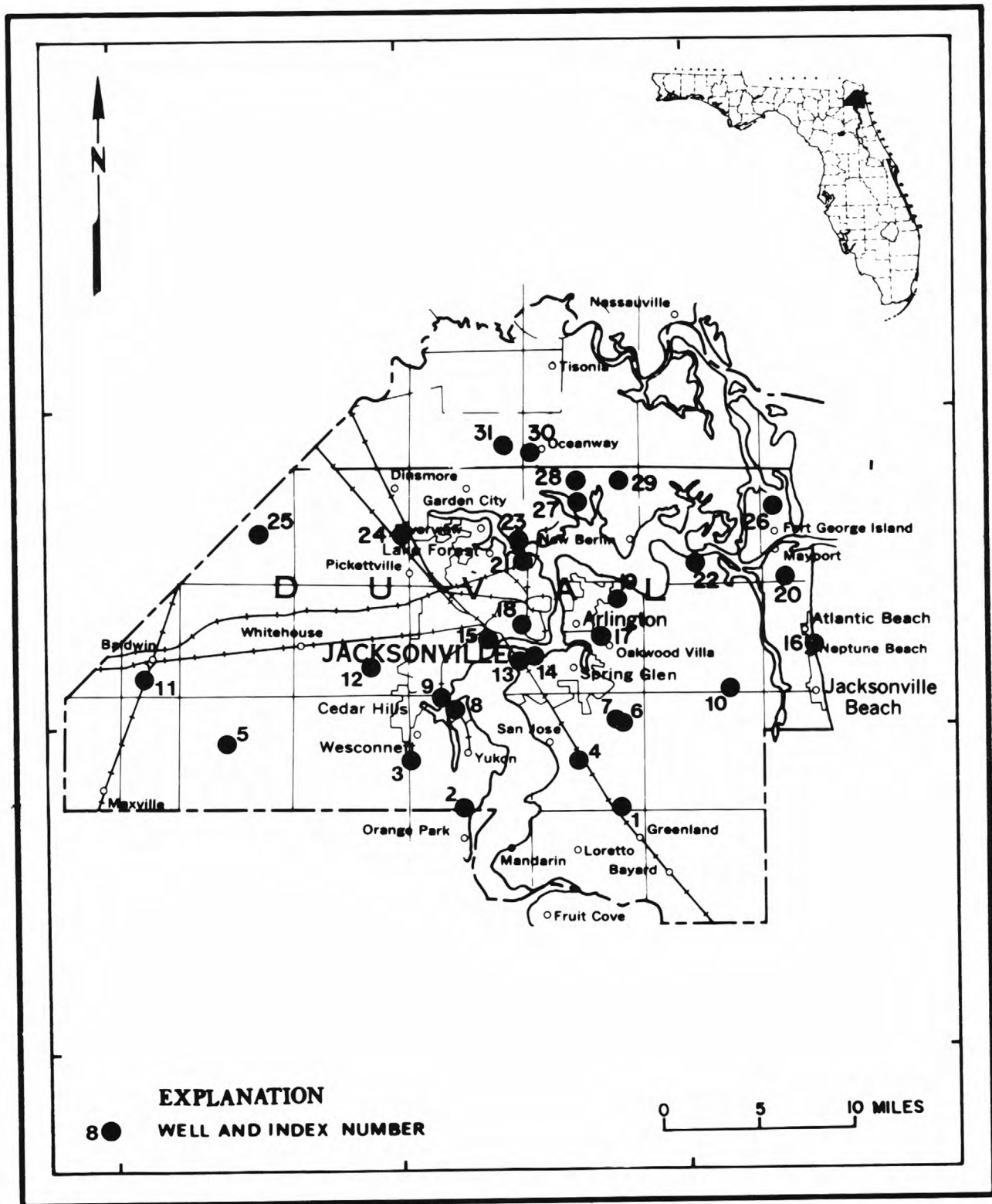


FIGURE 12. LOCATION OF WELLS IN DUVAL COUNTY.

DUVAL COUNTY

WELL NUMBER.--301422081541201. Local Number DS-226. USGS Observation Well at Jacksonville, FL.

LOCATION.--Lat 30°14'22", long 81°54'12", in SW¼SE¼NW¼, sec.16, T.3 S., R.24 E., Hydrologic Unit 03080103, 250 ft (76 m) south of Normandy Blvd (State Highway 228), 0.8 mi (1.3 km) west of main gate of NAS Cecil Field in Jacksonville.

AQUIFER.--Hawthorn Formation of Miocene age, Geologic Unit 120 HTRN.

WELL CHARACTERISTICS.--Drilled, unused, nonartesian well, diameter 2 in (5 cm), depth 210 ft (64 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of 2 in (5 cm) PVC casing, at land-surface datum.

DATUM.--Altitude of land-surface datum is 80 ft (24.4 m), from topographic map.

PERIOD OF RECORD.--January 1976, May 1977, February 1979 to current year (bimonthly). Records of water levels prior to 1979 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.61 ft (2.02 m) below land-surface datum, May 12, 1980; lowest measured, 10.18 ft (3.10 m) below land-surface datum, Jan. 26, 1981.

WATER LEVEL, IN FEET, BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)
JAN 06...	1320	7.87	JUN 09...	1230	7.79
MAR 02...	1350	7.30	JUL 27...	1005	7.08
APR 29...	1330	6.87			

WELL NUMBER.--301422081541202. Local Number DS-227. USGS Observation Well at Jacksonville, FL.

LOCATION.--Lat 30°14'22", long 81°54'12", in SW¼SE¼NE¼, sec.16, T.3 S., R.24 E., Hydrologic Unit 03080103, 200 ft (61 m) south of Normandy Blvd (State Highway 228) 0.8 mi (1.3 km) west of main gate of NAS Cecil Field in Jacksonville.

AQUIFER.--Hawthorn Formation of the Miocene age, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, unused, nonartesian well, diameter 2 in (5 cm), depth 401 ft (122 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of 2 in (5 cm) PVC casing, at land-surface datum.

DATUM.--Altitude of land-surface datum is 80 ft (24.4 m), from topographic map.

PERIOD OF RECORD.--January 1976, March to May 1977, February 1979 to current year (bimonthly). Records of water levels prior to 1979 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.20 ft (7.68 m) below land-surface datum, July 2, 1980; lowest measured, 34.30 ft (10.45 m) below land-surface datum, July 29, 1981.

WATER LEVEL, IN FEET, BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)
NOV 13...	1020	32.68	JUN 09...	1225	31.70
JAN 06...	1330	31.77	JUL 27...	1000	30.73
MAR 02...	1345	31.41	SEP 13...	1100	29.58
APR 29...	1330	30.35			

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

DUVAL COUNTY

WELL NUMBER.--301422081541203. Local Number DS-238. USGS Test Well at Jacksonville, FL.

LOCATION.--Lat 30°14'22", long 81°54'12", in SW¼SE¼NE¼, sec.16, T.3 S., R.24 E., Hydrologic Unit 03080103, 220 ft (67 m) south of Normandy Boulevard (SR 228), 0.8 mi (1.3 km) west of main gate of NAS Cecil Field in Jacksonville.

AQUIFER.--Limestone aquifer, Geologic Unit 122 LMSN.

WELL CHARACTERISTICS.--Drilled, unused, nonartesian well, diameter 2 in (5 cm), depth 101 ft (31 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of 2 in (5 cm) casing, at land-surface datum.

DATUM.--Altitude of land-surface datum is 80 ft (24.4 m), from topographic map.

PERIOD OF RECORD.--March 1976 to May 1977, February 1979 to current year (bimonthly). Records of water levels prior to 1979 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.04 ft (0.62 m) below land-surface datum, Sept. 25, 1979 ; lowest measured, 8.29 ft (2.53 m) below land-surface datum, Jan 26, 1981.

WATER LEVEL, IN FEET, BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)
JAN 06...	1325	4.38	JUN 09...	1230	5.62
MAR 02...	1345	4.36	JUL 27...	1010	3.84
APR 29...	1330	3.93	SEP 13...	1100	3.34

WELL NUMBER.--301522081331301. Local Number D-291. Humphries Mining Company Well at Jacksonville, FL.

LOCATION.--Lat 30°15'22", long 81°33'13", in NW¼NE¼SW¼, sec.12, T.3 S., R.27 E., Hydrologic Unit 03080103, 2.2 mi (3.5 km) south of U.S. Highway 90 (Beach Blvd.) and 200 ft (61 m) east of U.S. Highway Alt. 1 in Jacksonville.

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

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 12 in (30 cm), depth 1,246 ft (380 m) cased to 520 ft (158 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of iron plate on well at land-surface datum.

DATUM.--Altitude of land-surface datum is 60 ft (18.3 m), from topographic map.

PERIOD OF RECORD.--February 1973 to current year (monthly). Records of water levels prior to 1976 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.87 ft (3.01 m) below land-surface datum, April 4, 1973; lowest measured, 18.19 ft (5.54 m) below land-surface datum, June 4, 1981.

WATER LEVEL, IN FEET, BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)
NOV 02...	1320	14.97	MAY 14...	1130	15.21
JAN 04...	1310	14.28	JUN 28...	0850	14.40
FEB 01...	0920	14.56	JUL 26...	1000	13.42
MAR 02...	0955	14.25	AUG 25...	1420	13.19
APR 28...	1355	14.12	SEP 15...	0840	12.56

DUVAL COUNTY

WELL NUMBER.--301551081415701. Local Number D-129. K. A. Merrill Observation Well at Jacksonville, FL.

LOCATION.--Lat 30°15'51", long 81°41'57", in land grant 42, T.3 S., R.26 E., Hydrologic Unit 03080103, 44 ft (13 m) north of Merrill Driveway, and 45 ft (14 m) east of Ortega Boulevard in Jacksonville.

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

WELL CHARACTERISTICS.--Drilled, domestic, artesian well, diameter 4 in (10 cm), depth 600 ft (183 m).

INSTRUMENTATION.--Pressure gage. Measuring point: 0.5 in (1.3 cm) corporation cock, 1.20 ft (0.37 m) above land-surface datum.

DATUM.--Land-surface datum is 8.63 ft (2.63 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--July 1940 to April 1942, January to April 1944, August 1945 to September 1978 (semiannually), February 1979 to current year (bimonthly). 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, 50.93 ft (15.52 m) NGVD, July 9, 1940; lowest measured, 22.93 ft (6.99 m) NGVD, June 17, 1981.

ELEVATION, IN FEET, NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV			MAY		
02...	1445	29.33	12...	1050	25.63
DEC			JUN		
01...	0900	28.83	28...	0940	28.43
JAN			JUL		
04...	1100	30.03	27...	1205	29.13
FEB			AUG		
01...	0955	29.23	25...	1235	28.73
MAR			SEP		
30...	1410	29.33	14...	0930	30.43
APR					
29...	1410	28.93			

WELL NUMBER.--301725081584501. Local Number D-254. Seaboard R.R. Observation Well at Baldwin, FL.

LOCATION.--Lat 30°17'25", long 81°58'45", NE¼SW¼SW¼, sec.26, T.2 S., R.23 E., Hydrologic Unit 03080103, 0.5 mi (0.8 km) east of U.S. Highway 301, and 0.4 mi (0.6 km) north of Interstate Highway 10 on property of Seaboard Railroad in Baldwin.

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

WELL CHARACTERISTICS.--Drilled, industrial, artesian well, diameter 8 in (20 cm), depth 750 ft (229 m).

INSTRUMENTATION.--Tape measured. Measuring point: 1.2 in (3.0 cm) tap in pump base, 1.80 ft (0.55 m) above land-surface datum.

DATUM.--Altitude of land-surface datum is 85 ft (25.9 m), from topographic map.

PERIOD OF RECORD.--January 1961 to May 1962, May 1964 to September 1978 (annually), February 1979 to current year (bimonthly). Records of water levels prior to May 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.25 ft (7.70 m) below land-surface datum, Jan. 11, 1961; lowest measured, 36.53 ft (11.13 m) below land-surface datum, July 1, 1981.

WATER LEVEL, IN FEET, BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)
NOV			MAY		
13...	0930	35.96	12...	1500	33.69
JAN			JUN		
07...	1445	35.27	15...	1511	34.57
MAR			JUL		
02...	1425	34.46	27...	1400	33.70
APR			SEP		
14...	1510	33.96	13...	1030	32.89

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

DUVAL COUNTY

WELL NUMBER.--301806081385003. Local Number DS-230. USGS Observation Well at Jacksonville, FL.

LOCATION.--Lat 30°18'06", long 81°38'50", in land grant 46, T.2 S., R.26 E., Hydrologic Unit 03080103, in northeast corner of Florida East Coast Railroad Park on River Oaks Road in Jacksonville.

AQUIFER.--Hawthorn Formation of Miocene age, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, unused, nonartesian well, diameter 4 in (10 cm), depth 96 ft (29 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of 4 in (10 cm) PVC casing, 0.37 ft (0.11 m) above land-surface datum.

DATUM.--Altitude of land-surface datum is 15 ft (4.6 m) from topographic map.

PERIOD OF RECORD.--February 1976, March to May 1977, February 1979 to current year (bimonthly). Record of water levels prior to 1979 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.62 ft (1.41 m) below land-surface datum, Oct. 1, 1979; lowest measured, 10.97 ft (3.34 m) below land-surface datum, June 17, 1981.

WATER LEVEL, IN FEET, BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)
NOV 13...	1425	7.73	JUN 07...	0850	7.27
JAN 28...	1320	7.54	JUL 29...	1405	7.90
MAR 02...	1515	7.16	SEP 14...	0830	7.43
APR 12...	1435	5.47			

WELL NUMBER.--301806081385004. Local Number DS-231. USGS Observation Well at Jacksonville, FL.

LOCATION.--Lat 30°18'06", long 81°38'50", in land grant 46, T.2 S., R.26 E., Hydrologic Unit 03080103, in northeast corner of Florida East Coast Railroad Park on River Oaks Road in Jacksonville.

AQUIFER.--Hawthorn Formation of Miocene age, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, unused, nonartesian well, diameter 2 in (5 cm), depth 185 ft (56 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of 2 in (5 cm) casing, at land-surface datum.

DATUM.--Altitude of land-surface datum is 15 ft (4.6 m), from topographic map.

PERIOD OF RECORD.--February 1976, March 1977, February 1979 to current year (bimonthly). Records of water levels prior to 1979 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.57 ft (1.39 m) below land-surface datum, Oct. 1, 1979; lowest measured, 10.52 ft (3.21 m) below land-surface datum, July 27, 1981.

WATER LEVEL, IN FEET, BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)
NOV 13...	1415	7.51	JUN 07...	0900	8.78
JAN 28...	1315	7.07	JUL 29...	1410	7.35
MAR 02...	1315	6.79	SEP 14...	0800	7.00
APR 12...	1435	6.05			

DUVAL COUNTY

WELL NUMBER.--301817081374901. Local Number D-425 Top Zone. USGS Observation Well at Jacksonville, FL.

LOCATION.--Lat 30°18'17", long 81°37'49", in land grant 55, T.2 S., R.27 E., Hydrologic Unit 03080103, 300 ft (91 m) south of State Highway 10 (Atlantic Blvd.) and 450 ft (137 m) north of U.S. Highway 90 (Beach Blvd.) in Jacksonville.

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

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 8 in (20 cm), depth 2,486 ft (758 m), cased to 752 ft (229 m).

INSTRUMENTATION.--Pressure gage. Measuring point: Top of 8 in (20 cm) casing, 2.00 ft (0.61 m) above land-surface datum.

DATUM.--Altitude of land-surface datum is 20 ft (6.1 m), from topographic map.

REMARKS.--Multiple completion packers set at 750 ft (229 m) and 2,050 ft (625 m).

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.40 ft (7.13 m) above land-surface datum, Oct. 19, 1966; lowest measured, 12.30 ft (3.75 m) above land-surface datum, June 29, 1981.

WATER LEVEL, IN FEET, BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)
OCT			APR		
20...	1005	-14.90	21...	1455	-15.10
NOV			MAY		
24...	1250	-16.50	13...	1515	-15.50
DEC			JUN		
22...	1405	-16.40	28...	1120	-15.90
JAN			JUL		
25...	1405	-16.90	26...	0945	-17.50
FEB			AUG		
25...	0815	-16.30	30...	1315	-17.60
MAR			SEP		
25...	1010	-15.30	13...	1400	-17.80

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

DUVAL COUNTY

WELL NUMBER.--301817081374902. Local Number D-425 Bottom Zone. USGS Observation Well at Jacksonville, FL.

LOCATION.--Lat 30°18'17", long 81°37'49", in land grant 55, T.2 S., R.27 E., Hydrologic Unit 03080103, 300 ft (91 m) south of State Highway 10 (Atlantic Blvd.), and 450 ft (137 m) north of U.S. Highway 90 (Beach Blvd.) in Jacksonville.

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

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 8 in (20 cm), depth 2,486 ft (758 m), cased to 752 ft (229 m).

INSTRUMENTATION.--Pressure gage. Measuring point: Top of 8 in (20 cm) casing, 2.00 ft (0.61 m) above land-surface datum.

DATUM.--Altitude of land-surface datum is 20 ft (6 m), from topographic map.

REMARKS.--Multiple completion packers set at 750 ft (229 m) and 2,050 ft (625 m).

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.80 ft (8.47 m) above land-surface datum, Dec. 19, 1966; lowest measured, 14.10 ft (4.30 m) above land-surface datum, June 25, 1981.

WATER LEVEL, IN FEET, BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)
OCT			APR		
20...	1000	-16.40	21...	1500	-18.00
NOV			MAY		
24...	1245	-17.70	13...	1520	-17.80
DEC			JUN		
22...	1410	-17.50	28...	1115	-18.10
JAN			JUL		
25...	1400	-18.70	26...	0940	-19.50
FEB			AUG		
25...	0815	-18.20	30...	0915	-20.30
MAR			SEP		
25...	1010	-17.60	13...	1400	-20.20

DUVAL COUNTY

WELL NUMBER.--301852081234201. Local Number D-160. City of Neptune Beach Well at Neptune Beach, FL.

LOCATION.--Lat 30°18'52", long 81°23'42", in NW¼SW¼SE¼ sec.21, T.2 S., R.29 E., Hydrologic Unit 03080103, 20 ft (6 m) south of Florida Avenue, 70 ft (21 m) east of Third Street in Neptune Beach.

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

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 8 in (20 cm), depth 535 ft (163 m), cased to 357 ft (109 m).

INSTRUMENTATION.--Pressure gage. Measuring point: Top of 8 in (20 cm) tee, 0.50 ft (0.15 m) below land-surface datum.

DATUM.--Land-surface datum is 12.05 ft (3.67 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--June 1934, October 1939, September 1940 to February 1942, January 1944 to current year (bimonthly). Records of water levels prior to 1936 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 53.75 ft (16.38 m) NGVD, June 15, 1934; lowest measured, 27.95 ft (8.52 m) NGVD, July 27, 1981.

ELEVATION, IN FEET, NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV			MAY		
02...	1350	33.65	13...	1305	32.45
DEC			JUN		
01...	0805	33.85	28...	0915	32.75
JAN			JUL		
04...	1140	34.45	26...	1408	34.75
FEB			AUG		
01...	0950	33.65	28...	1445	34.75
MAR			SEP		
29...	1245	34.05	15...	1055	34.95
APR					
28...	1315	33.95			

WELL NUMBER.--301900081342801. Local Number D-94. Jerry Jarvis Well at Arlington, FL.

LOCATION.--Lat 30°19'07", long 81°34'54", in land grant 52, T.2 S., R.27 E., Hydrologic Unit 03080103, at residence of Jerry Jarvis, 453 Arlington Road, 500 ft (152 m) south of Strawberry Creek in Arlington.

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

WELL CHARACTERISTICS.--Drilled, domestic, artesian well, diameter 2 in (5 cm), depth 635 ft (194 m), cased to 520 ft (158 m).

INSTRUMENTATION.--Pressure gage. Measuring point: Top of 2 in (5 cm) tee, 2.50 ft (0.76 m) above land-surface datum.

DATUM.--Land-surface datum is 24.09 ft (7.34 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--May 1977 to September 1980 (semiannually), May 1981 to current year (monthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 33.49 ft (17.98 m) NGVD, May 5, 1980; lowest measured, 27.59 ft (9.99 m) NGVD, July 16, 1981.

ELEVATION, IN FEET, NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
20...	1040	30.19	16...	1125	31.89
NOV			MAY		
24...	1320	31.69	13...	1420	30.79
DEC			JUN		
15...	1405	32.09	28...	0930	32.09
JAN			JUL		
25...	1440	32.99	26...	1020	33.29
FEB			AUG		
19...	1415	32.39	30...	1000	33.39
MAR			SEP		
19...	1105	30.99	16...	1240	33.19

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

DUVAL COUNTY

WELL NUMBER.--302304081383202. Local Number D-122A. City of Jacksonville Well at Jacksonville, FL.

LOCATION.--Lat 30°23'04", long 81°38'32", in land grant 50, T.1 S., R.27 E., Hydrologic Unit 03080103, well between Eastland and Russell Streets, 20 ft (6 m) north of 63rd Street, and 0.4 mi (0.6 km) east of U.S. Highway 17 in Jacksonville.

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

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 8 in (20 cm), depth 905 ft (276 m), cased to 571 ft (174 m).

INSTRUMENTATION.--Pressure gage. Measuring point: Top of flange at land-surface datum.

DATUM.--Land-surface datum is 14.87 ft (4.53 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Well originally drilled to 700 ft (213 m) in 1914, later drilled to 905 ft (276 m) in 1925.

PERIOD OF RECORD.--August 1930, June 1938, November 1940 to April 1942, January 1944 to June 1944, August 1945 to current year (monthly). Records of water levels prior to 1936 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 62.47 ft (19.04 m) NGVD, Aug. 21, 1930; lowest measured, 31.07 ft (9.47 m) NGVD, Apr. 24, 1975.

ELEVATION, IN FEET, NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
30...	1030	36.67	29...	1030	39.07
NOV			MAY		
30...	1330	37.07	26...	1015	37.27
DEC			JUN		
29...	1520	37.77	28...	1400	35.67
JAN			JUL		
29...	1340	37.67	27...	1100	38.87
FEB			AUG		
26...	1005	37.37	30...	1320	39.87
MAR			SEP		
30...	1245	37.67	16...	0900	39.47

WELL NUMBER.--302307081293801. Local Number D-424. U.S. Park Service Well at Jacksonville, FL.

LOCATION.--Lat 30°23'07", long 81°29'38", in NW¼SE¼SE¼, sec.28, T.1 S., R.28 E., Hydrologic Unit 03080103, 106 ft (32 m) southeast of Ft. Caroline Road, and 0.2 mi (0.3 km) northeast of Ft. Caroline National Park entrance in Jacksonville.

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

WELL CHARACTERISTICS.--Drilled, artesian well, diameter 6 in (15 cm) depth 700 ft (213 m).

INSTRUMENTATION.--Pressure gage. Measuring point: Top of flange on 6 in (15 cm) tee, 3.60 ft (1.10 m) above land-surface datum.

DATUM.--Altitude of land-surface datum is 15 ft (4.5 m), from topographic map.

PERIOD OF RECORD.--December 1966, May 1968 to September 1978 (semiannually), January 1979 to current year (bimonthly). 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, 32.30 ft (9.85 m) above land-surface datum, Dec. 19, 1966; lowest measured, 19.90 ft (6.06 m) above land-surface datum, May 13, 1981.

WATER LEVEL, IN FEET, BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)
NOV			JUL		
18...	1350	-24.10	26...	1055	-24.80
MAY			SEP		
13...	1020	-22.00	16...	1030	-25.30
JUN					
07...	1120	-22.80			

DUVAL COUNTY

WELL NUMBER.--302410081443501. Local Number D-148. A. E. Pierce Observation Well at Dinsmore, FL.

LOCATION.--Lat 30°24'10", long 81°44'35", in land grant 42, T.1 S., R.26 E., Hydrologic Unit 03080103, 100 ft (30 m) west of U.S. Highway 1, 0.2 mi (0.3 km) south of intersection of Gilchrist Road and U.S. Highway 1 in Dinsmore.

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

WELL CHARACTERISTICS.--Drilled, domestic, artesian well, diameter 3 in (8 cm) depth 625 ft (190 m).

INSTRUMENTATION.--Pressure gage. Measuring point: Top of 3 in (8 cm) cross, 0.90 ft (0.27 m) above land-surface datum.

DATUM.--Land-surface datum is 20.68 ft (6.30 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--July 1940 to January 1941, October 1955, January 1960 to May 1962, May 1964 to September 1978 (annually), February 1979 to current year (bimonthly). Records of water levels prior to May 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 55.38 ft (16.88 m) NGVD, July 24, 1940; lowest measured, 34.58 ft (10.54 m) NGVD, May 14, Sept. 24, 1981.

ELEVATION, IN FEET, NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 13...	1440	37.18	MAY 14...	1015	37.78
JAN 05...	1445	37.38	JUN 15...	1520	37.78
MAR 08...	1010	37.48	SEP 14...	1330	37.88
APR 12...	1210	38.08			

WELL NUMBER.--302416081522601. Local Number D-348. Monticello Drug Co. and St. Regis Paper Company Well at Jacksonville, FL.

LOCATION.--Lat 30°24'16", long 81°52'26", in NW¼NW¼NE¼, sec.23, T.1 S., R.24 E., Hydrologic Unit 03080103, 1.5 mi (2.4 km) west of west end of Garden Street, off a private dirt road in Jacksonville.

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

WELL CHARACTERISTICS.--Drilled, unused, temporary water supply, artesian well, diameter 6 in (15 cm), depth 708 ft (216 m) cased to 416 ft (127 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of 11 in (28 cm) flange, 1.50 ft (0.46 m) above land-surface datum.

DATUM.--Altitude of land-surface datum is 80 ft (24.4 m), from topographic map.

PERIOD OF RECORD.--March 1971 to current year. Records of water levels prior to 1976 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 41.27 ft (12.58 m) below land-surface datum, Mar. 3, 1972; lowest, 49.47 ft (15.08 m) below land-surface datum, July 18, 1981.

WATER LEVEL, IN FEET, BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	48.43	47.65	47.44	46.75	46.45	46.13	45.93	45.27	46.10	46.50	45.62	44.94
10	48.53	47.57	47.47	46.68	46.16	46.15	46.09	45.37	46.23	46.53	45.64	44.59
15	48.32	47.43	47.16	46.89	46.24	46.09	45.93	45.95	46.52	46.23	45.56	44.57
20	48.26	47.46	47.46	46.92	46.10	46.22	45.79	46.44	46.25	45.70	45.55	44.68
25	47.82	47.44	46.96	46.40	46.29	46.14	45.44	46.58	46.40	45.49	45.24	44.74
EOM	48.00	47.33	46.62	46.38	46.21	46.18	45.34	46.49	46.40	45.66	45.09	44.71
MIN	47.80	47.31	46.62	46.38	45.94	45.82	45.26	45.19	46.10	45.44	45.09	44.55
WTR YR 1982	MEAN	46.38	HIGH	44.55	SEP 14	LOW	48.53	OCT 10				

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

DUVAL COUNTY

WELL NUMBER.--302416081522602. Local Number D-349. Monticello Drug Company and St. Regis Paper Company Well at Jacksonville, FL.

LOCATION.--Lat 30°24'16", long 81°52'26", in NW¼NW¼NE¼, sec.23, T.1 S., R.24 E., Hydrologic Unit 03080103, 1.5 mi (2.4 km), west of west end of Garden Street, off a private dirt road in Jacksonville.

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

WELL CHARACTERISTICS.--Drilled, unused, artesian oil test well, diameter 10 in (25 cm), depth 2,230 ft (680 m), cased to 444 ft (135 m).

INSTRUMENTATION.--Water level recorder. Measuring point: Top of 10 in (25 cm) casing, 3.50 ft (1.07 m) above land-surface datum.

DATUM.--Altitude of land-surface datum is 80 ft (24.4 m), from topographic map.

PERIOD OF RECORD.--March 1971 to current year. Records of water levels prior to 1976 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 29.10 ft (8.87 m) below land-surface datum, Mar. 10, 1971; lowest, 45.03 ft (13.72 m) below land-surface datum, July 18, 1981.

WATER LEVEL, IN FEET, BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	44.07	43.45	43.17	42.51	42.03	41.88	41.55	41.08	41.76	42.05	41.30	40.79
10	44.07	43.35	43.08	42.40	41.87	41.78	41.64	41.17	42.02	41.94	41.30	40.42
15	43.95	43.10	42.94	42.60	41.91	41.73	41.47	41.79	42.24	41.65	41.21	40.28
20	43.97	43.08	43.21	42.48	41.79	41.86	41.28	42.20	41.91	41.22	41.20	40.46
25	43.54	43.16	42.77	42.01	41.97	41.76	40.97	42.22	42.06	41.11	40.98	40.51
EOM	43.76	42.98	42.46	42.02	41.96	41.75	40.94	42.14	41.98	41.33	40.88	40.49
MIN	43.48	42.98	42.46	42.01	41.63	41.52	40.88	40.88	41.76	41.06	40.85	40.28
WTR YR 1982	MEAN	42.05	HIGH	40.28	SEP 15	LOW	44.11	OCT 9				

WELL NUMBER.--302540081361001. Local Number D-265. St. Regis Paper Co. Observation Well at Jacksonville, FL.

LOCATION.--Lat 30°25'40", long 81°36'10", in land grant 46, T.1 S., R.27 E., Hydrologic Unit 03080103, 100 ft (30 m) west of Eastport Road and 0.8 mi (1.3 km) north of State Highway 105 in Jacksonville.

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

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 8 in (20 cm), depth 556 ft (170 m).

INSTRUMENTATION.--Pressure gage. Measuring point: Top of 8 in (20 cm) cross, 4.00 ft (1.22 m) above land-surface datum.

DATUM.--Land-surface datum is 8.78 ft (2.68 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--March 1951 to September 1978 (semiannually), February 1979 to current year (bimonthly). 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, 52.28 ft (15.94 m) NGVD, Mar. 22, 1951; lowest measured, 31.18 ft (9.50 m) NGVD, June 29, 1981.

ELEVATION, IN FEET, NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV			JUN		
03...	1045	33.48	28...	1345	32.38
JAN			JUL		
04...	1000	33.88	27...	0945	35.58
APR			SEP		
12...	1450	34.48	15...	1200	36.38
MAY					
12...	1645	34.48			

DUVAL COUNTY

WELL NUMBER.--302608081354901. Local Number D-262. St. Regis Paper Company Well at Jacksonville, FL.

LOCATION.--Lat 30°26'10", long 81°35'48", in land grant 46, T.1 S., R.27 E., Hydrologic Unit 03080103, 75 ft (23 m) south of dirt road, 0.4 mi (0.6 km) east of Eastport Road in Jacksonville.

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

WELL CHARACTERISTICS.--Drilled, industrial, artesian well, diameter 4 in (10 cm), depth 1,237 ft (377 m), cased to 1,163 ft (354 m).

INSTRUMENTATION.--Pressure gage. Measuring point: Top of well flange, 1.00 ft (0.30 m) above land-surface datum.

DATUM.--Land-surface datum is 16.32 ft (4.97 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--June 1951 to current year (bimonthly). 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, 53.32 ft (16.25 m) NGVD, June 12, 1951; lowest measured, 32.52 ft (9.91 m) NGVD, June 29, July 29, 1981.

ELEVATION, IN FEET, NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV			MAY		
30...	1350	35.12	12...	1650	35.32
JAN			JUN		
04...	1000	35.92	28...	1325	33.72
FEB			JUL		
26...	1030	35.12	27...	1005	37.02
MAR			AUG		
30...	1105	35.52	30...	1255	38.32
APR			SEP		
12...	1440	36.02	16...	1215	38.52

WELL NUMBER.--302608081354902. Local Number D-263. St. Regis Paper Co. Observation Well at Jacksonville, FL.

LOCATION.--Lat 30°26'08", long 81°35'49", in land grant 46, T.1 S., R.27 E., Hydrologic Unit 03080103, 75 ft (23 m) south of dirt road 0.4 mi (0.6 km) east of Eastport Road in Jacksonville.

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

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 4 in (10 cm), depth 1,025 ft (312 m).

INSTRUMENTATION.--Pressure gage. Measuring point: Top of tee flange, 1.00 ft (0.30 m) above land-surface datum.

DATUM.--Land-surface datum is 15.96 ft (4.86 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--October 1951 to April 1979 (semiannually), January 1980 to current year (bimonthly). 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, 52.16 ft (15.90 m) NGVD, Feb. 4, 1954; lowest measured, 32.56 ft (9.92 m) NGVD, June 29, 1981.

ELEVATION, IN FEET, NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV			JUN		
30...	1350	35.16	28...	1340	34.16
APR			SEP		
12...	1430	36.26	16...	1215	36.76
MAY					
12...	1700	35.56			

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

DUVAL COUNTY

WELL NUMBER.--302608081354903. Local Number D-264. St. Regis Paper Co. Test Well at Jacksonville, FL.

LOCATION.--Lat 30°26'10", long 81°35'49", in land grant 46, T.1 S., R.27 E., Hydrologic Unit 03080103, 75 ft (23 m) south of dirt road, 0.4 mi (0.6 km) east of Eastport Road in Jacksonville.

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

WELL CHARACTERISTICS.--Drilled, industrial, artesian well, diameter 4 in (10 cm), depth 654 ft (199 m).

INSTRUMENTATION.--Pressure gage. Measuring point: Top of well flange, 1.00 ft (0.30 m) above land-surface datum.

DATUM.--Land-surface datum is 15.87 ft (4.84 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--October 1951 to September 1978 (semiannually), February 1979 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 51.87 ft (15.81 m) NGVD, Jan. 9, 1952; lowest measured, 32.27 ft (9.84 m) NGVD, June 29, 1981.

ELEVATION, IN FEET, NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 30...	1350	34.67	MAY 12...	1650	35.37
JAN 04...	1015	35.57	JUN 28...	1320	35.27
FEB 26...	1025	34.77	JUL 27...	1000	36.77
MAR 30...	1115	35.47	SEP 16...	1210	37.17
APR 12...	1443	35.07			

WELL NUMBER.--302801081375101. Local Number D-145. Duval County School Board Observation Well at Oceanway, FL.

LOCATION.--Lat 30°28'01", long 81°37'51", in land grant 37, T.1 N., R.27 E., Hydrologic Unit 03080103, Oceanway School on Oceanway Avenue, 600 ft (183 m) east of U.S. Highway 17 in Oceanway.

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

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 2 in (5 cm), depth unknown.

INSTRUMENTATION.--Pressure gage and tape measured. Measuring point: Top of 2 in (5 cm) tee, 1.50 ft (0.46 m) above land-surface datum.

DATUM.--Land-surface datum is 34.79 ft (10.60 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--July 1940 to September 1978 (semiannually), February 1979 to current year (bimonthly). 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, 58.99 ft (17.98 m) NGVD, June 3, 1947; lowest measured, 32.79 ft (9.99 m) NGVD, Aug. 27, 1981.

ELEVATION, IN FEET, NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 03...	1115	35.27	MAY 12...	1415	36.42
JAN 29...	1420	36.39	JUN 28...	1305	36.27
FEB 26...	1045	36.12	JUL 27...	1100	37.29
MAR 30...	1130	36.41	AUG 30...	1145	38.09
APR 29...	1200	37.35	SEP 15...	0930	37.69

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1981 TO SEPTEMBER 1982

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DUVAL COUNTY

STATION NUMBER	STATION NAME	LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF MEASUREMENT	ELEVATION ABOVE NGVD (FEET)
300622081284701	D-0909 J-	30 06 22	081 28 47	01	82-05-14 82-09-16	33.70 38.50
300812081390801	D-1097 J-1130	30 08 12	081 39 08	01	82-05-12 82-09-16	31.10 35.40
300820081354001	D-0296 J-0361	30 08 20	081 35 40	01	82-05-12 82-09-16	36.40 40.80
300824081305401	D-0169 J-0233	30 08 24	081 30 54	01	82-05-14 82-09-16	38.97 41.47
300836081265001	D-0911 J-	30 08 36	081 26 50	01	82-05-14 82-09-16	34.60 37.90
300852081345901	D-1174 J-1074	30 08 52	081 34 59	01	82-05-13	31.20
301032081380401	D-2846	30 10 32	081 38 04	01	82-09-16	36.20
301111081333402	DS-0243	30 11 11	081 33 34	02	82-05-12 82-09-16	11.86 13.25
301143081423001	D-0981 J-0785	30 11 43	081 42 30	01	82-05-13 82-09-14	28.25 33.20
301144081413801	D-0126 J-0190	30 11 44	081 41 38	01	82-05-13 82-09-14	28.30 32.70
301216081451201	D-0321 J-0386	30 12 16	081 45 12	01	82-05-13 82-09-14	24.60 30.60
301255081371001	D-0282 J-0347	30 12 55	081 37 10	01	82-05-13 82-09-16	20.70 28.30
301333081324101	D-2847	30 13 33	081 32 41	01	82-09-15	39.77
301333081442502	DS-0253	30 13 33	081 44 25	02	82-05-13 82-09-14	11.27 12.28
301335081352601	D-0154 J-0218	30 13 35	081 35 26	01	82-05-13 82-09-16	31.80 36.00
301339081433401	D-1055 J-1109	30 13 39	081 43 34	01	82-05-13 82-09-14	28.86 33.36
301339081531203	D-0326 J-0391	30 13 39	081 53 12	03	81-10-07 82-05-13 82-09-13	45.50 48.40 49.56
301415081284801	D-0658 J-0721	30 14 15	081 28 48	01	82-05-14 82-09-21	32.70 34.90
301422081541201	DS-0226	30 14 22	081 54 12	01	82-01-06 82-03-02 82-04-29 82-06-09 82-07-27	72.13 72.70 73.13 72.21 72.92
301434082021401	D-0085 J-0149	30 14 34	082 02 14	01	82-05-13	52.70
301434082021401	D-0085 J-0149	30 14 34	082 02 14	01	82-09-13	53.62
301503081331101	DS-0246	30 15 03	081 33 11	01	82-05-14 82-09-15	34.22 35.76
301607081301001	D-0991 J-1001	30 16 07	081 30 10	01	82-05-13 82-09-15	33.37 36.59
301617081421601	D-0115 J-0179	30 16 17	081 42 16	01	82-01-04 82-05-12 82-09-14	31.35 27.75 31.45
301641081341201	D-1133 J-1164	30 16 41	081 34 12	01	82-05-14 82-09-15	19.30 22.70
301647081274101	DS-0244	30 16 47	081 27 41	01	82-05-13 82-09-15	17.74 19.71
301714081233301	D-0072 J-0136	30 17 14	081 23 33	01	82-05-13 82-09-15	29.90 32.00

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1981 TO SEPTEMBER 1982

DUVAL COUNTY--Continued

STATION NUMBER	STATION NAME	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF MEASURE- MENT	ELEV- ATION ABOVE NGVD (FEET)
301715081300001	D-0298 J-0363	30 17 15	081 30 00	01	82-05-13 82-09-15	32.61 35.72
301725081392101	D-0048 J-0112	30 17 25	081 39 21	01	82-05-11 82-09-16	26.50 27.90
301758081463101	DS-0228	30 17 58	081 46 31	01	82-05-13 82-09-14	33.02 31.62
301806081385005	DS-0250	30 18 06	081 38 50	05	81-11-13 82-05-12	7.22 7.05
301824081362901	D-0620 J-0686	30 18 24	081 36 29	01	82-05-14 82-09-16	27.00 32.30
301827081305501	D-0399 J-0466	30 18 27	081 30 55	01	82-05-13 82-09-15	38.29 41.48
301844081403801	D-0018 J-0082	30 18 44	081 40 38	01	82-05-12 82-09-14	29.00 32.28
301846081240201	D-0246 J-0313	30 18 46	081 24 02	01	82-05-13 82-09-15	29.70 39.30
301902081394601	D-0297 J-0362	30 19 02	081 39 46	01	82-05-13 82-09-14	27.50 30.80
301908081282401	D-1203 J-0926	30 19 08	081 28 24	01	82-05-13	25.60
301911081364201	D-1073 J-1093	30 19 11	081 36 42	01	82-05-14 82-09-15	31.10 34.70
301919081375401	D-0376 J-0442	30 19 19	081 37 54	01	82-05-12 82-09-16	35.50 36.70
301925081262501	D-0934 J-1032	30 19 25	081 26 25	01	82-05-13 82-09-15	31.50 34.50
302003081541202	DS-0255	30 20 03	081 54 12	02	82-09-13	82.74
302037081455301	D-0581 J-0647	30 20 37	081 45 53	01	82-05-13 82-09-13	35.60 38.20
302112081384701	D-0210 J-0276	30 21 12	081 38 47	01	82-05-12 82-09-15	35.20 37.60
302113081333702	DS-0249	30 21 13	081 33 37	02	82-05-14 82-09-16	33.91 36.61
302120081362201	D-0310 J-0375	30 21 20	081 36 22	01	82-05-14 82-09-15	32.35 34.81
302122081274001	D-0400 J-0467	30 21 22	081 27 40	01	82-05-13 82-09-15	33.20 37.30
302137081240001	D-0084 J-0148	30 21 37	081 24 00	01	82-05-13 82-09-15	32.45 35.55
302140081235501	D-1121 J-0943	30 21 40	081 23 55	01	82-05-13	26.40
302142081330701	D-0277 J-0342	30 21 42	081 33 07	01	82-05-13 82-09-16	32.40 34.90
302145081394201	D-0043 J-0107	30 21 45	081 39 42	01	82-05-14 82-09-14	34.94 37.44
302215081243101	DS-0256	30 22 15	081 24 31	01	82-05-14 82-09-15	4.68 5.60
302300081295101	D-0396 J-0463	30 23 00	081 29 51	01	82-05-13 82-09-16	36.20 39.10
302307081293801	D-0424 J-0491	30 23 07	081 29 38	01	81-11-18 82-05-13 82-06-07 82-07-26 82-09-16	39.10 37.00 37.80 39.80 40.30
302317081330401	D-0488 J-0555	30 23 17	081 33 04	01	82-05-12 82-09-15	29.10 39.70

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1981 TO SEPTEMBER 1982

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DUVAL COUNTY--Continued

STATION NUMBER	STATION NAME	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF MEASURE- MENT	ELEV- ATION ABOVE NGVD (FEET)
302330081463001	D-0420 J-0487	30 23 30	081 46 30	01	82-05-13 82-09-13	38.30 39.30
302339081254701	D-0464 J-0531	30 23 39	081 25 47	01	82-05-13	36.70
302339081254702	D-0464A J-0531	30 23 39	081 25 47	02	82-09-15	40.30
302345081261301	D-0470 J-0537	30 23 45	081 26 13	01	82-05-12 82-09-15	35.40 38.30
302351081390201	D-0151 J-0215	30 23 51	081 39 02	01	82-05-12 82-09-16	33.94 37.04
302404081411601	D-0346 J-0409	30 24 04	081 41 16	01	82-05-14	28.00
302416081522601	D-0348 J-0413	30 24 16	081 52 26	01	82-05-17 82-09-14	41.34 41.29
302502081321001	D-0270 J-0335	30 25 02	081 32 10	01	82-05-12 82-09-15	36.70 38.30
302514081393701	D-0227 J-0294	30 25 14	081 39 37	01	82-05-12 82-09-14	36.20 38.00
302538081253101	D-0164 J-0228	30 25 38	081 25 31	01	81-11-03 82-05-12 82-09-16	38.81 38.21 41.01
302608081354902	D-0263 J-0329	30 26 08	081 35 49	02	81-11-30 82-04-12 82-05-12 82-06-28 82-09-16	35.16 36.26 35.56 34.16 36.76
302616081413901	D-0305 J-0370	30 26 16	081 41 39	01	82-05-14 82-09-14	42.50 40.20
302633081333001	DS-0236	30 26 33	081 33 30	01	82-05-12 82-09-15	13.77 16.04
302641081454201	D-0269 J-0334	30 26 41	081 45 42	01	82-05-14 82-09-14	37.70 39.30
302724081244801	D-0395 J-0462	30 27 24	081 24 48	01	82-05-11 82-09-14	35.27 36.57
302738081290001	D-1078 J-1106	30 27 38	081 29 00	01	82-05-14 82-09-16	33.60 35.80
302835081390301	DS-0234	30 28 35	081 39 03	01	82-05-13 82-09-15	12.76 15.00
303015081343301	D-0077 J-0141	30 30 15	081 34 33	01	82-09-16	31.70
303104081284401	D-0753 J-0052	30 31 04	081 28 44	01	82-05-12 82-09-16	32.00 34.00
303216081433301	D-0401 J-0468	30 32 16	081 43 33	01	82-05-14 82-09-14	36.90 38.20
303458081364001	D-0411 J-0478	30 34 58	081 36 40	01	82-05-11 82-09-15	32.30 33.50

OCTOBER 1981 TO SEPTEMBER 1982

DUVAL COUNTY

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS) (90095)	PH (STAND- ARD UNITS) (00400)	PH LAB (STAND- ARD UNITS) (00403)	TEMPER- ATURE (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)
301111081333402 - DS-0243 (LAT 30 11 11 LONG 081 33 34)										
JUN , 1982										
16...	1530	46.0	--	518	5.2	7.7	21.0	0	91	2.9
AUG										
19...	1230	--	--	--	--	--	--	--	--	--
301111081333403 - DS-0269 (LAT 30 11 11 LONG 081 33 34)										
JUN , 1982										
16...	1500	19.0	710	482	5.1	7.7	22.0	0	100	2.8
AUG										
19...	1300	--	--	--	--	--	--	--	--	--
301132081331009 - DET-1 (WELL US1) (LAT 30 11 32 LONG 081 33 10)										
MAY , 1982										
15...	1352	25.0	750	720	7.2	7.1	21.0	0	160	3.6
AUG										
17...	1300	25.0	725	--	6.7	--	21.0	--	--	--
301132081331010 - DET-2 (WELL US1) (LAT 30 11 32 LONG 081 33 10)										
MAY , 1982										
15...	1420	25.0	850	895	5.9	7.0	21.0	0	130	2.4
AUG										
17...	1300	25.0	890	--	6.9	--	21.0	--	--	--
301132081331011 - DET-3 (WELL US1) (LAT 30 11 32 LONG 081 33 10)										
MAY , 1982										
15...	1450	25.0	760	745	5.8	7.0	21.0	0	150	1.6
AUG										
16...	1300	25.0	750	--	7.0	--	21.0	--	--	--
301132081331012 - DET-4 (WELL US1) (LAT 30 11 32 LONG 081 33 10)										
MAY , 1982										
15...	1530	25.0	870	870	5.7	7.1	21.0	0	180	4.4
AUG										
16...	1300	25.0	850	--	7.1	--	21.0	--	--	--
301817081374901 - D-0425 J-0492 (LAT 30 18 17 LONG 081 37 49)										
MAY , 1982										
20...	1100	--	1250	1280	7.6	7.7	29.0	--	170	41
302159081235601 - D-2386 HANNA PARK TEST WELL (LAT 30 21 59 LONG 081 23 56)										
MAR 1982										
09...	1100	2010	--	10500	6.3	7.8	--	--	400	220
09...	1200	1950	--	9380	6.6	7.6	--	--	360	200
MAY										
21...	1415	1892	10600	9580	6.6	7.4	29.5	--	550	260
302416081522602 - D-0349 J-0414 (LAT 30 24 16 LONG 081 52 26)										
MAY , 1982										
25...	1115	1890	390	358	7.4	7.6	--	--	51	12
25...	1320	2080	390	371	7.4	7.7	--	--	51	12

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

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DUVAL COUNTY--Continued

DATE	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)	BICAR- BONATE IT-LAB (MG/L - HCO3) (90440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	CAR- BONATE IT-LAB (MG/L - CO3) (90445)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
301111081333402 - DS-0243 (LAT 30 11 11 LONG 081 33 34)										
JUN , 1982										
16...	8.0	1.0	--	335	--	.0	--	275	.2	11
AUG										
19...	--	--	--	--	--	--	--	--	--	--
301111081333403 - DS-0269 (LAT 30 11 11 LONG 081 33 34)										
JUN , 1982										
16...	10	1.0	--	306	--	.0	--	251	.2	11
AUG										
19...	--	--	--	--	--	--	--	--	--	--
301132081331009 - DET-1 (WELL US1) (LAT 30 11 32 LONG 081 33 10)										
MAY , 1982										
15...	8.0	.6	--	520	--	.0	--	427	.2	6.0
AUG										
17...	--	--	--	--	--	--	--	--	--	--
301132081331010 - DET-2 (WELL US1) (LAT 30 11 32 LONG 081 33 10)										
MAY , 1982										
15...	10	.4	--	603	--	.0	--	495	7.4	15
AUG										
17...	--	--	--	--	--	--	--	--	--	--
301132081331011 - DET-3 (WELL US1) (LAT 30 11 32 LONG 081 33 10)										
MAY , 1982										
15...	6.4	.6	--	520	--	.0	--	427	.2	8.2
AUG										
16...	--	--	--	--	--	--	--	--	--	--
301132081331012 - DET-4 (WELL US1) (LAT 30 11 32 LONG 081 33 10)										
MAY , 1982										
15...	10	.8	--	615	--	.0	--	504	.2	7.5
AUG										
16...	--	--	--	--	--	--	--	--	--	--
301817081374901 - D-0425 J-0492 (LAT 30 18 17 LONG 081 37 49)										
MAY , 1982										
20...	34	3.1	160	--	0	--	131	127	510	59
302159081235601 - D-2386 HANNA PARK TEST WELL (LAT 30 21 59 LONG 081 23 56)										
MAR , 1982										
09...	1800	29	--	--	--	--	--	140	700	3900
09...	1500	24	--	--	--	--	--	140	490	3100
MAY										
21...	1400	24	200	--	0	--	164	136	720	3000
302416081522602 - D-0349 J-0414 (LAT 30 24 16 LONG 081 52 26)										
MAY , 1982										
25...	5.0	.7	250	--	0	--	205	186	6.0	8.1
25...	5.3	.8	240	--	0	--	197	186	6.0	7.4

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

DUVAL COUNTY--Continued

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)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	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, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
301111081333402 - DS-0243 (LAT 30 11 11 LONG 081 33 34)										
JUN , 1982										
16...	.2	12	303	292	.00	.010	.01	.120	.07	.19
AUG										
19...	--	--	--	--	--	--	--	--	--	--
301111081333403 - DS-0269 (LAT 30 11 11 LONG 081 33 34)										
JUN , 1982										
16...	.1	11	496	287	.00	.010	.01	.150	3.8	3.95
AUG										
19...	--	--	--	--	--	--	--	--	--	--
301132081331009 - DET-1 (WELL US1) (LAT 30 11 32 LONG 081 33 10)										
MAY , 1982										
15...	.1	11	460	446	.00	.000	.00	.080	.67	.75
AUG										
17...	--	--	--	--	--	--	--	--	--	--
301132081331010 - DET-2 (WELL US1) (LAT 30 11 32 LONG 081 33 10)										
MAY , 1982										
15...	.1	13	541	476	.00	.000	.00	.100	.23	.33
AUG										
17...	--	--	--	--	--	--	--	--	--	--
301132081331011 - DET-3 (WELL US1) (LAT 30 11 32 LONG 081 33 10)										
MAY , 1982										
15...	.1	12	467	436	.00	.000	.00	.090	.37	.46
AUG										
16...	--	--	--	--	--	--	--	--	--	--
301132081331012 - DET-4 (WELL US1) (LAT 30 11 32 LONG 081 33 10)										
MAY , 1982										
15...	.1	13	531	519	.00	.010	.01	.170	2.7	2.87
AUG										
16...	--	--	--	--	--	--	--	--	--	--
301817081374901 - D-0425 J-0492 (LAT 30 18 17 LONG 081 37 49)										
MAY , 1982										
20...	1.0	--	1070	--	--	--	--	--	--	--
302159081235601 - D-2386 HANNA PARK TEST WELL (LAT 30 21 59 LONG 081 23 56)										
MAR , 1982										
09...	.6	--	7430	--	--	--	--	--	--	--
09...	.6	--	6570	--	--	--	--	--	--	--
MAY										
21...	.5	--	7080	--	--	--	--	--	--	--
302416081522602 - D-0349 J-0414 (LAT 30 24 16 LONG 081 52 26)										

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

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DUVAL COUNTY--Continued

DATE	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
301111081333402 - DS-0243 (LAT 30 11 11 LONG 081 33 34)										
JUN , 1982										
16...	.20	.150	.120	1200	5	--	510	630	--	3.4
AUG										
19...	--	--	--	--	7	2	--	700	10	--
301111081333403 - DS-0269 (LAT 30 11 11 LONG 081 33 34)										
JUN , 1982										
16...	3.9	9.50	.070	170000	110	--	560	150000	--	3.0
AUG										
19...	--	--	--	--	27	4	--	7800	30	--
301132081331009 - DET-1 (WELL US1) (LAT 30 11 32 LONG 081 33 10)										
MAY , 1982										
15...	.75	.970	.130	16000	70	--	880	6900	--	6.5
AUG										
17...	--	--	--	--	6	2	--	1600	1500	--
301132081331010 - DET-2 (WELL US1) (LAT 30 11 32 LONG 081 33 10)										
MAY , 1982										
15...	.33	.380	.230	3000	7	--	780	6700	--	4.6
AUG										
17...	--	--	--	--	6	2	--	6600	6300	--
301132081331011 - DET-3 (WELL US1) (LAT 30 11 32 LONG 081 33 10)										
MAY , 1982										
15...	.46	1.50	1.00	5100	27	--	840	5000	--	8.8
AUG										
16...	--	--	--	--	6	2	--	2000	1900	--
301132081331012 - DET-4 (WELL US1) (LAT 30 11 32 LONG 081 33 10)										
MAY , 1982										
15...	2.8	1.50	.110	22000	170	--	1100	25000	--	13
AUG										
16...	--	--	--	--	12	4	--	4500	4100	--
301817081374901 - D-0425 J-0492 (LAT 30 18 17 LONG 081 37 49)										
MAY , 1982										
20...	--	--	--	--	--	--	6000	--	--	--
302159081235601 - D-2386 HANNA PARK TEST WELL (LAT 30 21 59 LONG 081 23 56)										
MAR , 1982										
09...	--	--	--	--	--	--	8000	--	--	--
09...	--	--	--	--	--	--	7000	--	--	--
MAY										
21...	--	--	--	--	--	--	6800	--	--	--
302416081522602 - D-0349 J-0414 (LAT 30 24 16 LONG 081 52 26)										
MAY , 1982										
25...	--	--	--	--	--	--	110	--	--	--
25...	--	--	--	--	--	--	140	--	--	--

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KEY TO SITE LOCATIONS ON FIGURE 13
FLAGLER COUNTY

Index number	Site number	Page number
1	292750081152001	74
2	292820081221001	74

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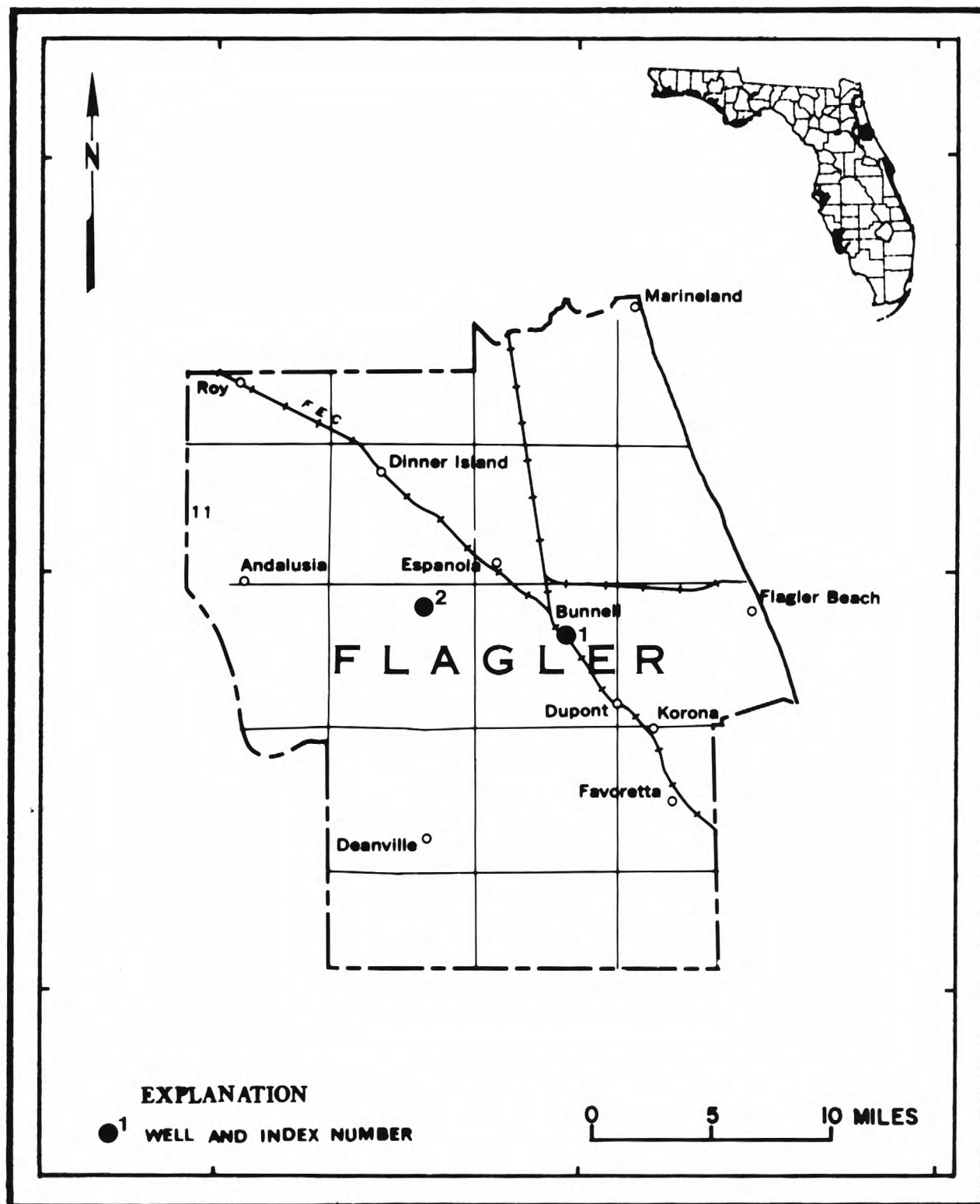


FIGURE 13. LOCATION OF WELLS IN FLAGLER COUNTY.

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

FLAGLER COUNTY

WELL NUMBER.--2927500811252001. Local Number 927-115-01. USGS Observation Well Flagler 14 at Bunnell, FL.

LOCATION.--Lat 29°27'50", long 81°15'20", in NE¼ sec.15, T.12 S., R.30 E., Hydrologic Unit 03080201, 200 ft (61 m) south of intersection of West Court and South Railroad Streets, and 600 ft (183 m) southwest of intersection of State Highway 11 and U.S. Highway 1 at Bunnell.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in (15 cm) to 4 in (10 cm), depth 417 ft (127 m), casing length unknown.

INSTRUMENTATION.--Tape measured. Measuring point: Top of 6 in (15 cm) coupling at land-surface datum.

DATUM.--Land-surface datum is 21.00 ft (6.40 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--March 1936 to December 1962 (monthly); February 1963 to current year (bimonthly). 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, 18.30 ft (5.58 m) NGVD, Sept. 9, 1947; lowest measured, 10.46 ft (3.19 m) NGVD, July 10, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT 27...	1230	12.54	JUN 08...	0915	14.17
DEC 15...	1035	13.16	JUL 27...	0930	14.90
FEB 09...	1010	13.35	SEP 13...	1310	15.13
APR 15...	1210	14.35			
MAY 10...	1225	14.11			

WELL NUMBER.--292820081221001. Local Number 928-122-01. Observation Well Flagler 44 near Bunnell, FL.

LOCATION.--Lat 29°28'20". long 81°22'10", in NE¼SW¼ sec.10, T.12 S., R.29 E., Hydrologic Unit 03080103, 0.6 mi (1.0 km) southeast of intersection of State Highways 305 and 100, and 6.7 mi (10.8 km) west of Bunnell.

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

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 4 in (10 cm), depth 159 ft (48 m), casing length unknown.

INSTRUMENTATION.--Tape measured. Measuring point: Top of 4 in (10 cm) casing, 2.46 ft (0.75 m) above land-surface datum.

DATUM.--Land-surface datum is 23.96 ft (7.30 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--January 1956 to February 1963; April 1963 to current year (bimonthly). 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, 18.10 ft (5.52 m) NGVD, Sept. 11, 1960; lowest, 2.21 ft (0.67 m) NGVD, Mar. 29, 1956.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT 27...	1300	10.88	MAY 10...	1321	10.09
DEC 15...	1100	11.18	JUN 08...	0933	12.06
FEB 09...	1030	11.18	JUL 27...	0950	13.38
APR 15...	1225	11.89	SEP 13...	1220	13.61

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1981 TO SEPTEMBER 1982

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FLAGLER COUNTY

STATION NUMBER	STATION NAME	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF MEASURE- MENT	ELEV- ATION ABOVE NGVD (FEET)
291720081194401	91711901 14S29E13	29 17 20	081 19 44	01	82-05-10 82-09-13	19.45 20.48
291818081190501	FIRETOWER WELL NR CODYS CORNER	29 18 18	081 19 05	01	82-05-13 82-09-13	15.46 17.15
291913081224201	13S29E33	29 19 13	081 22 42	01	82-05-13 82-09-13	18.08 20.10
291955081200901	91912003 13S29E36	29 19 55	081 20 09	01	82-05-10 82-09-13	11.62 12.96
292047081130601	92011201 13S31E30	29 20 47	081 13 06	01	82-04-06 82-05-19 82-09-20	18.69 18.39 20.02
292115081184801	92111901 13S30E19	29 21 15	081 18 48	01	82-05-10 82-09-13	12.97 14.28
292156081215001	92112103 13S29E37	29 21 56	081 21 50	01	82-05-13 82-09-13	9.51 11.32
292213081210501	92212001 13S29E37	29 22 13	081 21 05	01	82-05-13 82-09-13	9.96 11.73
292302081155901	SR304 WELL AT SWEETWATER BRANCH	29 23 02	081 15 59	01	82-05-10 82-09-13	14.71 15.91
292342081183701	92311805 13S30E06	29 23 42	081 18 37	01	82-05-10 82-09-14	8.66 9.96
292413081221601	92412202 13S29E04	29 24 13	081 22 16	01	82-05-13 82-09-13	8.13 12.30
292448081121301	ITT-PALM COAST WELL LW-15	29 24 48	081 12 13	01	82-05-12 82-09-15	17.32 18.32
292521081222301	92512202 12S29E33 HARPER WELL NR ST JOHNS PARK	29 25 21	081 22 23	01	82-05-10 82-09-13	6.75 10.85
292522081254201	92512501 12S28E25	29 25 22	081 25 42	01	82-05-10	6.14
292559081111101	SEMINOLE PRKWY WELL AT SESAME BLVD	29 25 59	081 11 11	01	82-05-11 82-09-13	14.36 15.61
292603081082502	F-176 BULLOW RUINS	29 26 03	081 08 25	02	82-05-12 82-09-15	8.63 10.01
292604081062401	SJRWMD SHALLOW WELL F174	29 26 04	081 06 24	01	82-05-12 82-09-15	5.25 6.61
292604081081501	92610802 12S31E38	29 26 04	081 08 15	01	82-09-21	7.90
292641081120102	NORTH MONITOR WELL AT FLAGLER BCH WELL #5	29 26 41	081 12 01	02	82-05-11 82-09-13	8.63 9.68
292645081110301	ITT PALM COAST WELL SW-82	29 26 45	081 11 03	01	82-05-12 82-09-15	13.98 15.40
292647081182001	92611803 12S30E19	29 26 47	081 18 20	01	82-05-10 82-09-14	9.08 10.52
292711081142001	ITT-PALM COAST WELL LW-42	29 27 11	081 14 20	01	82-05-12 82-09-15	14.68 15.65
292728081125601	BUNNELL AIRPORT WELL AT GORE LK	29 27 28	081 12 56	01	82-05-11 82-09-13	13.77 14.65
292737081220201	F-182 KINGS FARM WELL	29 27 37	081 22 02	01	82-05-13 82-09-15	9.79 13.69
292820081221001	92812201OBSERVATION WELL FLAGLER 44 NR BUNNELL,F	29 28 20	081 22 10	01	82-07-27	13.38
292853081082501	928108 12S31E12 SR201 WELL AT FLAGLER BEACH	29 28 53	081 08 25	01	82-05-11 82-09-14	10.09 12.50
292930081223401	CONTAINER CORP WELL NR ESPANOLA	29 29 30	081 22 34	01	82-05-13	10.48
292947081164401	ITT-PALM COAST WELL LW-6	29 29 47	081 16 44	01	82-05-11 82-09-14	14.85 16.45

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1981 TO SEPTEMBER 1982

FLAGLER COUNTY--Continued

STATION NUMBER	STATION NAME	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF MEASURE- MENT	ELEV- ATION ABOVE NGVD (FEET)
293031081174101	WELL TW-1 NR ESPANOLA	29 30 31	081 17 41	01	82-05-11 82-09-14	13.01 14.74
293034081293001	93012901 11S28E32	29 30 34	081 29 30	01	82-04-06 82-05-13 82-09-13	13.58 13.53 15.98
293048081152501	ITT-PALM COAST WELL LW-38	29 30 48	081 15 25	01	82-05-11 82-09-14	13.64 15.44
293128081090501	LENSSSEN WELL AT BEVERLY BCH	29 31 28	081 09 05	01	82-05-11 82-09-14	9.25 10.50
293257081171601	93211702 11S30E16	29 32 57	081 17 16	01	82-05-11 82-09-14	14.77 16.54
293313081132402	*SJ* F158 11S31E18 ITTPALMCOASTSTJOEGRADE LW-11	29 33 13	081 13 24	02	82-05-12 82-09-16	13.20 15.20
293318081122501	93312201 11S31E41	29 33 18	081 12 25	01	82-05-11 82-09-14	11.85 13.57
293337081230301	CONTAINER CORP WELL AT DINNER ISLAND	29 33 37	081 23 03	01	82-05-12 82-09-15	12.87 16.96
293337081230302	CONTAINER CORP SHALLOW WELL AT DINNER ISLAND	29 33 37	081 23 03	02	82-09-15	23.85
293504081183601	93511801 10S30E31	29 35 04	081 18 36	01	82-09-20	16.85
293529081191701	*SJ* F165 10S30E31 PALMCOASTITT-LW-20 WESTBOUNDR	29 35 29	081 19 17	01	82-05-13 82-09-16	14.25 16.39
293724081160101	ITT-PALM COAST WELL LW-53	29 37 24	081 16 01	01	82-05-11 82-09-14	14.26 15.75
293754081121901	*SJ* F200 10S31E WASHINGTONOAKSPARKWEATHERSTA	29 37 54	081 12 19	01	82-05-13 82-09-14	13.69 15.34
293754081121902	F-191 WASH OAKS STATE PK	29 37 54	081 12 19	02	82-05-13 82-09-14	2.69 3.36
293905081142701	939114 10S30E39 WADSWORTH WELL AT STYLES CK	29 39 05	081 14 27	01	82-05-19 82-09-21	12.44 13.86
293943081124301	MARINELAND NORTH SUPPLY WELL	29 39 43	081 12 43	01	82-05-11 82-09-14	10.25 12.00

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

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FLAGLER COUNTY

DATE	TIME	FLOW RATE, INSTAN- TANEOUS (GPM) (00059)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (STAND- ARD UNITS) (00400)	PH LAB (STAND- ARD UNITS) (00403)	TEMPER- ATURE (DEG C) (00010)	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)	ALKA- LITY FIELD (MG/L AS CACO3) (00410)
291818081190501 - FIRETOWER WELL NR CODYS CORNER (LAT 29 18 18 LONG 081 19 05)											
FEB , 1982	17...	1445	--	--	--	--	--	--	--	--	--
291818081190502 - SHALLOW WELL AT SR11 FIRETOWER NR CODYS CORNER (LAT 29 18 18 LONG 081 19 05)											
FEB , 1982	04...	1510	--	760	6.7	7.1	23.0	110	6.2	34	1.2 400
292047081130601 - 92011201 13S31E30 (LAT 29 20 47 LONG 081 13 06)											
APR , 1982	06...	1100	--	715	6.9	7.2	23.0	115	4.1	31	1.1 333
292302081155901 - SR304 WELL AT SWEETWATER BRANCH (LAT 29 23 02 LONG 081 15 59)											
APR , 1982	30...	1530	--	900	7.0	7.2	23.5	123	12	52	2.3 359
292302081155902 - SHALLOW WELL ON SR304 NR CODYS CORNERS (LAT 29 23 02 LONG 081 15 59)											
MAR , 1982	18...	1300	--	850	7.2	7.3	23.0	98	8.1	54	1.7 377
292342081183701 - 92311805 13S30E06 (LAT 29 23 42 LONG 081 18 37)											
FEB , 1982	18...	1330	--	10500	7.2	7.5	22.5	330	200	1700	30 220
292521081222301 - 92512202 12S29E33 HARPER WELL NR ST JOHNS PARK (LAT 29 25 21 LONG 081 22 23)											
FEB , 1982	18...	1030	--	3000	--	--	23.0	--	--	--	--
292528081255301 - STOCK WELL AT ST JOHNS PARK (LAT 29 25 28 LONG 081 25 53)											
FEB , 1982	22...	1330	--	4800	--	--	22.0	--	--	--	--
292559081111101 - SEMINOLE PRKWY WELL AT SESAME BLVD (LAT 29 25 59 LONG 081 11 11)											
FEB , 1982	22...	1030	--	740	--	--	23.0	--	--	--	--
292559081111102 - SHALLOW WELL ON SEMINOLE PARKWAY AT PALM COAST (LAT 29 25 59 LONG 081 11 11)											
JAN , 1982	29...	1445	--	430	6.3	6.7	22.5	41	11	34	.6 156
292624081165101 - SHALLOW WELL AT SR11 REST AREA NR BUNNELL (LAT 29 26 24 LONG 081 16 51)											
FEB , 1982	04...	1430	--	7700	7.0	7.5	22.5	280	150	1300	13 201

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

FLAGLER COUNTY--Continued

DATE	SULFIDE TOTAL (MG/L AS S) (00745)	SULFIDE DIS- SOLVED (MG/L AS S) (00746)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	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)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)
291818081190501 - FIRETOWER WELL NR CODYS CORNER (LAT 29 18 18 LONG 081 19 05)										
FEB , 1982 17...	--	--	--	--	--	--	--	--	--	--
291818081190502 - SHALLOW WELL AT SR11 FIRETOWER NR CODYS CORNER (LAT 29 18 18 LONG 081 19 05)										
FEB , 1982 04...	--	--	1.5	50	.1	27	--	478	.01	--
292047081130601 - 92011201 13S31E30 (LAT 29 20 47 LONG 081 13 06)										
APR , 1982 06...	--	--	5.0	38	.1	25	--	421	<.10	.150
292302081155901 - SR304 WELL AT SWEETWATER BRANCH (LAT 29 23 02 LONG 081 15 59)										
APR , 1982 30...	--	--	5.0	91	.1	19	--	521	<.10	.170
292302081155902 - SHALLOW WELL ON SR304 NR CODYS CORNERS (LAT 29 23 02 LONG 081 15 59)										
MAR , 1982 18...	--	--	.6	60	.2	22	--	472	<.01	--
292342081183701 - 92311805 13S30E06 (LAT 29 23 42 LONG 081 18 37)										
FEB , 1982 18...	5.0	4.9	170	3700	.1	14	--	6284	.03	--
292521081222301 - 92512202 12S29E33 HARPER WELL NR ST JOHNS PARK (LAT 29 25 21 LONG 081 22 23)										
FEB , 1982 18...	--	--	--	--	--	--	--	--	--	--
292528081255301 - STOCK WELL AT ST JOHNS PARK (LAT 29 25 28 LONG 081 25 53)										
FEB , 1982 22...	--	--	--	--	--	--	--	--	--	--
292559081111101 - SEMINOLE PRKWY WELL AT SESAME BLVD (LAT 29 25 59 LONG 081 11 11)										
FEB , 1982 22...	--	--	--	--	--	--	--	--	--	--
292559081111102 - SHALLOW WELL ON SEMINOLE PARKWAY AT PALM COAST (LAT 29 25 59 LONG 081 11 11)										
JAN , 1982 29...	--	--	2.3	46	.6	11	--	242	<.01	--
292624081165101 - SHALLOW WELL AT SR11 REST AREA NR BUNNELL (LAT 29 26 24 LONG 081 16 51)										
FEB , 1982 04...	--	--	130	2400	<.1	11	--	4409	.02	--

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

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FLAGLER COUNTY--Continued

DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	CARBON- 14,DISS AP- PARENT AGE (YEARS BP) (28004)	C-13/ C-12 STABLE ISOTOPE RATIO PER MIL (82081)	H-2/ H-1/ STABLE ISOTOPE RATIO PER MIL (82082)	O-18/ O-16 STABLE ISOTOPE RATIO PER MIL (82085)	CARBON 14 PERCENT MODERN (82172)
291818081190501 - FIRETOWER WELL NR CODYS CORNER (LAT 29 18 18 LONG 081 19 05)										
FEB , 1982 17...	--	--	--	--	--	8300	-11.1	-13.0	-2.1	35.8
291818081190502 - SHALLOW WELL AT SR11 FIRETOWER NR CODYS CORNER (LAT 29 18 18 LONG 081 19 05)										
FEB , 1982 04...	--	7300	--	35	630	--	--	--	--	--
292047081130601 - 92011201 13S31E30 (LAT 29 20 47 LONG 081 13 06)										
APR , 1982 06...	--	1200	--	22	600	--	--	--	--	--
292302081155901 - SR304 WELL AT SWEETWATER BRANCH (LAT 29 23 02 LONG 081 15 59)										
APR , 1982 30...	--	480	--	25	610	--	--	--	--	--
292302081155902 - SHALLOW WELL ON SR304 NR CODYS CORNERS (LAT 29 23 02 LONG 081 15 59)										
MAR , 1982 18...	--	850	--	51	510	--	--	--	--	--
292342081183701 - 92311805 13S30E06 (LAT 29 23 42 LONG 081 18 37)										
FEB , 1982 18...	--	380	--	80	2300	27800	-8.8	-4.5	-1.7	3.2
292521081222301 - 92512202 12S29E33 HARPER WELL NR ST JOHNS PARK (LAT 29 25 21 LONG 081 22 23)										
FEB , 1982 18...	--	--	--	--	--	>26800	-10.1	-11.0	-1.8	<3.6
292528081255301 - STOCK WELL AT ST JOHNS PARK (LAT 29 25 28 LONG 081 25 53)										
FEB , 1982 22...	--	--	--	--	--	>22300	-9.0	-11.5	-1.9	<6.8
292559081111101 - SEMINOLE PRKWY WELL AT SESAME BLVD (LAT 29 25 59 LONG 081 11 11)										
FEB , 1982 22...	--	--	--	--	--	13300	-7.3	-13.0	-1.8	19.1
292559081111102 - SHALLOW WELL ON SEMINOLE PARKWAY AT PALM COAST (LAT 29 25 59 LONG 081 11 11)										
JAN , 1982 29...	--	2000	--	17	380	--	--	--	--	--
292624081165101 - SHALLOW WELL AT SR11 REST AREA NR BUNNELL (LAT 29 26 24 LONG 081 16 51)										
FEB , 1982 04...	--	2800	--	80	1600	--	--	--	--	--

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

FLAGLER COUNTY--Continued

DATE	TIME	FLOW RATE, INSTAN- TANEOUS (GPM) (00059)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (STAND- ARD UNITS) (00400)	PH LAB (STAND- ARD UNITS) (00403)	TEMPER- ATURE (DEG C) (00010)	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)	ALKA- LITY FIELD (MG/L AS CACO3) (00410)
292803081175701 - SHALLOW WELL ON SR100 AT BLACK PT RD NR BUNNELL (LAT 29 28 03 LONG 081 17 57)											
FEB , 1982	04...	1015	--	1100	6.8	7.2	22.0	85	17	93	2.5 297
292831081134901 - CITY OF BUNNELL WELL NO.5 (LAT 29 28 31 LONG 081 13 49)											
APR , 1982	06...	1330	--	910	6.9	7.3	22.5	115	10	63	1.3 320
292852081222001 - SHALLOW WELL AT SR305&SR100 NR ST JOHNS PARK (LAT 29 28 52 LONG 081 22 20)											
FEB , 1982	04...	1245	--	490	--	7.2	22.0	--	--	--	--
292930081223401 - CONTAINER CORP WELL NR ESPANOLA (LAT 29 29 30 LONG 081 22 34)											
NOV , 1981	20...	1300	50	2800	7.1	7.7	23.0	150	68	270	6.8 200
292945081285201 - SHALLOW WELL ON SR100 AT ANDALUSIA (LAT 29 29 45 LONG 081 28 52)											
FEB , 1982	04...	1200	--	178	5.6	5.8	22.0	14	1.4	17	.5 54
293034081293001 - 93012901 11S28E32 (LAT 29 30 34 LONG 081 29 30)											
APR , 1982	06...	1430	--	1550	7.6	7.5	23.0	95	44	150	2.6 107
293128081090501 - LENSSEN WELL AT BEVERLY BCH (LAT 29 31 28 LONG 081 09 05)											
MAR , 1982	18...	1000	--	4300	7.0	7.5	23.5	190	100	570	11 303
293128081090502 - LENSSEN SHALLOW WELL AT BEVERLY BEACH (LAT 29 31 28 LONG 081 09 05)											
MAR , 1982	18...	1100	--	4100	7.4	7.5	23.0	170	93	530	11 238
293318081155701 - SHALLOW WELL AT US1&ST JOE RD NR PALM COAST (LAT 29 33 18 LONG 081 15 57)											
FEB , 1982	04...	0900	--	555	6.9	7.1	22.5	114	1.6	13	.2 376
293337081230301 - CONTAINER CORP WELL AT DINNER ISLAND (LAT 29 33 37 LONG 081 23 03)											
MAR , 1982	22...	1330	--	2050	7.4	7.5	22.5	170	67	210	5.8 175
293337081230302 - CONTAINER CORP SHALLOW WELL AT DINNER ISLAND (LAT 29 33 37 LONG 081 23 03)											
MAR , 1982	22...	1445	--	225	5.2	5.6	24.0	19	1.5	17	.7 26

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

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FLAGLER COUNTY--Continued

DATE	SULFIDE TOTAL (MG/L AS S) (00745)	SULFIDE DIS- SOLVED (MG/L AS S) (00746)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	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)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)
292803081175701 - SHALLOW WELL ON SR100 AT BLACK PT RD NR BUNNELL (LAT 29 28 03 LONG 081 17 57)										
FEB , 1982 04...	--	--	4.5	200	<.1	16	--	601	<.01	--
292831081134901 - CITY OF BUNNELL WELL NO.5 (LAT 29 28 31 LONG 081 13 49)										
APR , 1982 06...	--	2.7	12	100	.2	22	--	519	<.10	.220
292852081222001 - SHALLOW WELL AT SR305&SR100 NR ST JOHNS PARK (LAT 29 28 52 LONG 081 22 20)										
FEB , 1982 04...	--	--	--	37	--	--	--	--	--	--
292930081223401 - CONTAINER CORP WELL NR ESPANOLA (LAT 29 29 30 LONG 081 22 34)										
NOV , 1981 20...	5.0	--	180	690	.5	20	1690	1505	.02	<.010
292945081285201 - SHALLOW WELL ON SR100 AT ANDALUSIA (LAT 29 29 45 LONG 081 28 52)										
FEB , 1982 04...	--	--	5.7	25	<.1	21	--	123	.04	--
293034081293001 - 93012901 11S28E32 (LAT 29 30 34 LONG 081 29 30)										
APR , 1982 06...	--	--	120	330	.2	11	--	820	<.10	.040
293128081090501 - LENSSEN WELL AT BEVERLY BCH (LAT 29 31 28 LONG 081 09 05)										
MAR , 1982 18...	--	--	310	1300	.5	17	--	2684	.02	--
293128081090502 - LENSSEN SHALLOW WELL AT BEVERLY BEACH (LAT 29 31 28 LONG 081 09 05)										
MAR , 1982 18...	--	--	280	1100	.4	18	--	2348	.01	--
293318081155701 - SHALLOW WELL AT US1&ST JOE RD NR PALM COAST (LAT 29 33 18 LONG 081 15 57)										
FEB , 1982 04...	--	--	1.4	17	<.1	11	--	384	<.01	--
293337081230301 - CONTAINER CORP WELL AT DINNER ISLAND (LAT 29 33 37 LONG 081 23 03)										
MAR , 1982 22...	--	4.8	370	490	.3	14	--	1439	.04	.010
293337081230302 - CONTAINER CORP SHALLOW WELL AT DINNER ISLAND (LAT 29 33 37 LONG 081 23 03)										
MAR , 1982 22...	--	--	11	35	<.1	9.7	--	111	.01	<.010

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

FLAGLER COUNTY--Continued

DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	CARBON- 14,DISS AP- PARENT AGE (YEARS BP) (28004)	C-13/ C-12 STABLE ISOTOPE RATIO PER MIL (82081)	H-2/ H-1/ STABLE ISOTOPE RATIO PER MIL (82082)	O-18/ O-16 STABLE ISOTOPE RATIO PER MIL (82085)	CARBON 14 PERCENT MODERN (82172)
292803081175701 - SHALLOW WELL ON SR100 AT BLACK PT RD NR BUNNELL (LAT 29 28 03 LONG 081 17 57)										
FEB , 1982 04...	--	4400	--	65	480	--	--	--	--	--
292831081134901 - CITY OF BUNNELL WELL NO.5 (LAT 29 28 31 LONG 081 13 49)										
APR , 1982 06...	--	55	--	11	800	--	--	--	--	--
292852081222001 - SHALLOW WELL AT SR305&SR100 NR ST JOHNS PARK (LAT 29 28 52 LONG 081 22 20)										
FEB , 1982 04...	--	--	--	--	--	--	--	--	--	--
292930081223401 - CONTAINER CORP WELL NR ESPANOLA (LAT 29 29 30 LONG 081 22 34)										
NOV , 1981 20...	90	10	10	<10	--	--	--	--	--	--
292945081285201 - SHALLOW WELL ON SR100 AT ANDALUSIA (LAT 29 29 45 LONG 081 28 52)										
FEB , 1982 04...	--	6000	--	24	98	--	--	--	--	--
293034081293001 - 93012901 11S28E32 (LAT 29 30 34 LONG 081 29 30)										
APR , 1982 06...	--	9	--	5	2600	--	--	--	--	--
293128081090501 - LENSSEN WELL AT BEVERLY BCH (LAT 29 31 28 LONG 081 09 05)										
MAR , 1982 18...	--	130	--	10	3200	--	--	--	--	--
293128081090502 - LENSSEN SHALLOW WELL AT BEVERLY BEACH (LAT 29 31 28 LONG 081 09 05)										
MAR , 1982 18...	--	80	--	<10	3000	--	--	--	--	--
293318081155701 - SHALLOW WELL AT US1&ST JOE RD NR PALM COAST (LAT 29 33 18 LONG 081 15 57)										
FEB , 1982 04...	--	150	--	15	550	--	--	--	--	--
293337081230301 - CONTAINER CORP WELL AT DINNER ISLAND (LAT 29 33 37 LONG 081 23 03)										
MAR , 1982 22...	--	80	--	10	2300	--	--	--	--	--
293337081230302 - CONTAINER CORP SHALLOW WELL AT DINNER ISLAND (LAT 29 33 37 LONG 081 23 03)										
MAR , 1982 22...	--	1100	--	8	120	--	--	--	--	--

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

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FLAGLER COUNTY--Continued

DATE	TIME	FLOW RATE, INSTAN- TANEOUS (GPM) (00059)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (STAND- ARD UNITS) (00400)	PH LAB (STAND- ARD UNITS) (00403)	TEMPER- ATURE (DEG C) (00010)	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)	ALKA- LITY FIELD (MG/L AS CACO3) (00410)
293403081105701 - SHALLOW WELL ON A1A SOUTH OF BON TERRA (LAT 29 34 03 LONG 081 10 57)											
JAN , 1982											
29...	1400	--	375	7.4	7.8	22.5	53	2.1	20	.6	162
293406081174601 - PALM COAST WELL SW-91 NR BUNNELL (LAT 29 34 06 LONG 081 17 46)											
MAR , 1982											
01...	1200	--	800	7.0	7.0	21.5	114	9.7	37	2.6	344
293502081110201 - SHALLOW WELL ON JUNGLE HUT RD AT BON TERRA (LAT 29 35 02 LONG 081 11 02)											
JAN , 1982											
29...	1300	--	560	7.1	7.3	22.0	120	3.4	25	.8	322
293504081183601 - 93511801 10S30E31 (LAT 29 35 04 LONG 081 18 36)											
FEB , 1982											
26...	1200	--	3000	7.4	7.5	--	160	110	270	10	166
293601081120101 - WEST SHALLOW WELL ON 16TH RD AT BON TERRA (LAT 29 36 01 LONG 081 12 01)											
JAN , 1982											
29...	1130	--	5300	7.2	7.5	22.0	270	140	760	16	162
293607081114001 - MIDDLE SHALLOW WELL ON 16TH RD AT BON TERRA (LAT 29 36 07 LONG 081 11 40)											
JAN , 1982											
29...	1030	--	4950	7.3	7.5	22.0	230	140	730	19	240
293609081113201 - EAST SHALLOW WELL ON 16TH ROAD AT BON TERRA (LAT 29 36 09 LONG 081 11 32)											
JAN , 1982											
29...	0915	--	528	7.1	7.5	22.0	91	2.7	22	.7	231
293620081115901 - SHALLOW WELL ON A1A NORTH OF BON TERRA (LAT 29 36 20 LONG 081 11 59)											
JAN , 1982											
27...	1230	--	5800	7.2	7.4	21.0	160	240	860	21	184
293636081180901 - PALM COAST WELL SW-92 NR BUNNELL (LAT 29 36 36 LONG 081 18 09)											
MAR , 1982											
01...	1000	--	640	7.1	7.4	21.0	107	8.2	22	2.6	326
293721081120901 - MAIN ST SHALLOW WELL AT BON TERRA (LAT 29 37 21 LONG 081 12 09)											
JAN , 1982											
27...	1100	--	830	6.6	7.2	22.0	148	5.4	28	1.3	423

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

FLAGLER COUNTY--Continued

DATE	SULFIDE TOTAL (MG/L AS S) (00745)	SULFIDE DIS- SOLVED (MG/L AS S) (00746)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	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)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)
2934030811105701 - SHALLOW WELL ON A1A SOUTH OF BON TERRA (LAT 29 34 03 LONG 081 10 57)										
JAN , 1982 29...	--	--	2.1	32	.1	5.9	--	213	<.01	--
2934060811174601 - PALM COAST WELL SW-91 NR BUNNELL (LAT 29 34 06 LONG 081 17 46)										
MAR , 1982 01...	1.0	.9	3.2	63	.2	45	--	483	<.01	--
293502081110201 - SHALLOW WELL ON JUNGLE HUT RD AT BON TERRA (LAT 29 35 02 LONG 081 11 02)										
JAN , 1982 29...	--	--	6.8	51	.1	8.3	--	411	<.01	--
2935040811183601 - 93511801 10S30E31 (LAT 29 35 04 LONG 081 18 36)										
FEB , 1982 26...	--	4.9	380	730	.6	18	--	1787	<.01	--
2936010811120101 - WEST SHALLOW WELL ON 16TH RD AT BON TERRA (LAT 29 36 01 LONG 081 12 01)										
JAN , 1982 29...	--	--	610	1500	<.1	12	--	3408	.03	--
293607081114001 - MIDDLE SHALLOW WELL ON 16TH RD AT BON TERRA (LAT 29 36 07 LONG 081 11 40)										
JAN , 1982 29...	--	--	630	1600	.1	5.7	--	3505	.06	--
293609081113201 - EAST SHALLOW WELL ON 16TH ROAD AT BON TERRA (LAT 29 36 09 LONG 081 11 32)										
JAN , 1982 29...	--	--	3.3	39	.1	7.3	--	310	<.01	--
293620081115901 - SHALLOW WELL ON A1A NORTH OF BON TERRA (LAT 29 36 20 LONG 081 11 59)										
JAN , 1982 27...	--	--	750	1900	.1	15	--	4072	.01	--
2936360811180901 - PALM COAST WELL SW-92 NR BUNNELL (LAT 29 36 36 LONG 081 18 09)										
MAR , 1982 01...	--	.6	2.0	29	.2	42	--	411	<.01	--
2937210811120901 - MAIN ST SHALLOW WELL AT BON TERRA (LAT 29 37 21 LONG 081 12 09)										
JAN , 1982 27...	--	--	.9	55	.1	6.1	--	508	.04	--

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

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FLAGLER COUNTY--Continued

DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	CARBON- 14,DISS AP- PARENT AGE (YEARS BP) (28004)	C-13/ C-12 STABLE ISOTOPE RATIO PER MIL (82081)	H-2/ H-1/ STABLE ISOTOPE RATIO PER MIL (82082)	O-18/ O-16 STABLE ISOTOPE RATIO PER MIL (82085)	CARBON 14 PERCENT MODERN (82172)
293403081105701 - SHALLOW WELL ON ALA SOUTH OF BON TERRA (LAT 29 34 03 LONG 081 10 57)										
JAN , 1982 29...	--	87	--	16	280	--	--	--	--	--
293406081174601 - PALM COAST WELL SW-91 NR BUNNELL (LAT 29 34 06 LONG 081 17 46)										
MAR , 1982 01...	--	550	--	17	750	13400	-10.6	-15.5	-2.5	18.8
293502081110201 - SHALLOW WELL ON JUNGLE HUT RD AT BON TERRA (LAT 29 35 02 LONG 081 11 02)										
JAN , 1982 29...	--	2300	--	16	640	--	--	--	--	--
293504081183601 - 93511801 10S30E31 (LAT 29 35 04 LONG 081 18 36)										
FEB , 1982 26...	--	100	--	10	3600	>30700	-7.6	-12.5	-2.0	<2.2
293601081120101 - WEST SHALLOW WELL ON 16TH RD AT BON TERRA (LAT 29 36 01 LONG 081 12 01)										
JAN , 1982 29...	--	1100	--	180	1900	--	--	--	--	--
293607081114001 - MIDDLE SHALLOW WELL ON 16TH RD AT BON TERRA (LAT 29 36 07 LONG 081 11 40)										
JAN , 1982 29...	--	4900	--	50	1300	--	--	--	--	--
293609081113201 - EAST SHALLOW WELL ON 16TH ROAD AT BON TERRA (LAT 29 36 09 LONG 081 11 32)										
JAN , 1982 29...	--	4700	--	11	460	--	--	--	--	--
293620081115901 - SHALLOW WELL ON ALA NORTH OF BON TERRA (LAT 29 36 20 LONG 081 11 59)										
JAN , 1982 27...	--	3900	--	50	12000	--	--	--	--	--
293636081180901 - PALM COAST WELL SW-92 NR BUNNELL (LAT 29 36 36 LONG 081 18 09)										
MAR , 1982 01...	--	860	--	21	730	11200	-11.5	-18.0	-3.0	24.9
293721081120901 - MAIN ST SHALLOW WELL AT BON TERRA (LAT 29 37 21 LONG 081 12 09)										
JAN , 1982 27...	--	9000	--	30	590	--	--	--	--	--

WATER RESOURCES DATA FOR FLORIDA, 1982
Volume 1B: Northeast Florida

KEY TO SITE LOCATIONS ON FIGURE 14
INDIAN RIVER COUNTY

Index number	Site number	Page number
1	273923080471801	88
2	274206080225501	88
3	274607080493001	89

WATER RESOURCES DATA FOR FLORIDA, 1982
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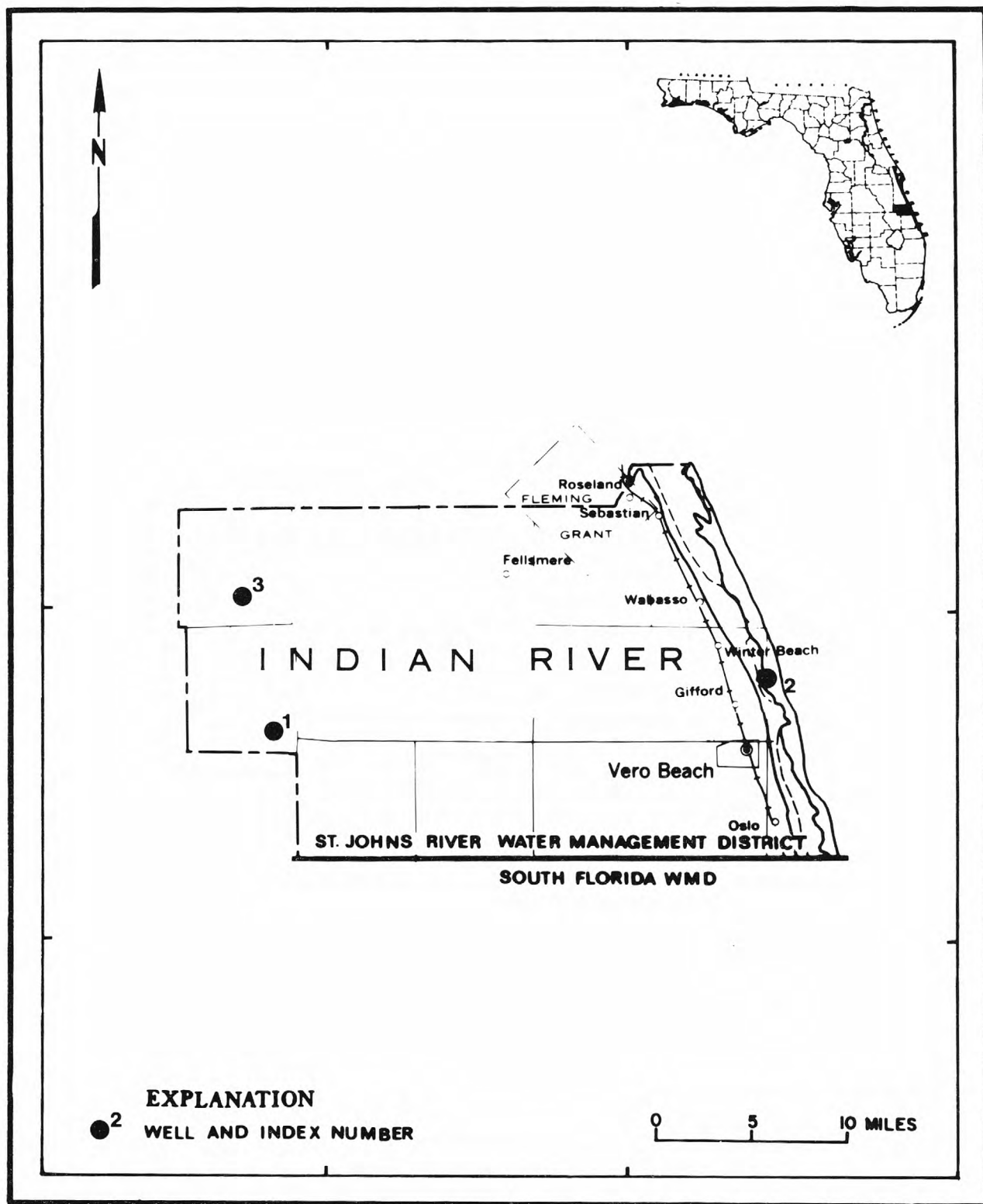


FIGURE 14. LOCATION OF WELLS IN INDIAN RIVER COUNTY.

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

INDIAN RIVER COUNTY

WELL NUMBER.--273923080471801. Local Number 739-047-01. USGS Observation Well IR25 near Yeehaw Junction, FL.

LOCATION.--Lat 27°39'23", long 80°47'18", in NW¼NE¼NW¼ sec.36, T.32 S., R.35 E., Hydrologic Unit 03080101, on north side of State Highway 60, 1.3 mi (2.1 km) east of Blue Cypress Road, and 7.9 mi (12.7 km) east of U.S. Highway 441 in Yeehaw Junction.

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

WELL CHARACTERISTICS.--Drilled, observation, nonartesian well, diameter 6 in (15 cm), depth 19 ft (6 m), cased to 13 ft (4 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of casing, 2.20 ft (0.67 m) above land-surface datum.

DATUM.--Land-surface datum is 30.01 ft (9.15 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--October 1950 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, 31.99 ft (9.75 m) NGVD, Sept. 4, 1979; lowest, 25.17 ft (7.67 m) NGVD, May 31, 1967.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	28.85	27.55	27.20	28.43	28.16	28.74	28.67	29.38	30.33	29.55	28.45
10	---	28.53	27.43	27.15	29.04	28.80	29.63	28.30	28.78	29.47	29.97	29.72
15	27.87	28.16	27.37	27.70	28.67	28.44	29.12	27.94	28.74	28.95	29.69	28.83
20	27.65	27.86	27.32	27.63	28.75	28.04	28.81	27.67	30.23	28.94	29.82	28.88
25	27.57	27.69	27.27	27.55	28.23	28.20	29.06	27.92	30.01	29.69	29.15	29.12
EOM	27.62	27.61	27.24	27.38	28.10	29.32	29.13	29.95	29.09	29.50	28.97	29.52
MAX	27.95	28.86	27.61	27.70	29.14	29.73	29.90	29.95	30.23	30.40	30.18	29.82
WTR YR 1982	MEAN	28.57	MAX	30.40	JUL 6	MIN	27.13	JAN 11	AND OTHERS			

WELL NUMBER.--274206080225501. Local Number 742-022-01. Johns Island Well near Vero Beach, FL.

LOCATION.--Lat 27°42'06", long 80°22'55", in NE¼NE¼NE¼ sec.13, T.32 S., R.39 E., Hydrologic Unit 03080203, in wooded area between fourth and fifth holes of Johns Island Golf Course, 0.5 mi (0.8 km) east of State Highway A-1-A, and 1.9 mi (3.1 km) north of Vero Beach.

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

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 12 in (30 cm), depth 2,020 ft (616 m), cased to 424 ft (129 m).

INSTRUMENTATION.--Pressure gage measured. Measuring point: Bottom of pressure probe, 0.70 ft (0.21 m) above land-surface datum.

DATUM.--Land-surface datum is 2.93 ft (0.89 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--June 1977 to current year (bimonthly). Records for 1978, as previously published, are unreliable and should not be used.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.20 ft (10.42 m) NGVD, Sept. 27, 1977; lowest measured, 29.33 ft (8.94 m) NGVD, Dec. 2, 1981.

ELEVATIONS, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAR		
23...	0935	31.13	18...	1240	30.33
DEC			MAY		
02...	1030	29.33	11...	0830	34.13
JAN			JUL		
21...	1430	31.73	15...	1130	30.53
FEB			SEP		
24...	1120	30.03	13...	1610	33.78

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

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INDIAN RIVER COUNTY

WELL NUMBER.--274607080493001. Local Number 746-049-01. USGS Observation Well IR-189 near Yeehaw Junction, FL.

LOCATION.--Lat 27°46'07", long 80°49'30", in SE¼NE¼SW¼ sec.22, T.31 S., R.35 E., Hydrologic Unit 03080101, on north side of private road at Mitchell Ranch, 10 mi (16 km) north of Yeehaw Junction.

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

WELL CHARACTERISTICS.--Drilled, stock, artesian well, diameter 4 in (10 cm), depth 630 ft (192 m), casing length unknown.

INSTRUMENTATION.--Pressure gage measured. Measuring point: 4 in (10 cm) discharge line, 1.00 ft (0.30 m) above land-surface datum.

DATUM.--Land-surface datum is 33.16 ft (10.11 m), National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1978, land-surface datum was considered to be 34 ft (10 m), from topographic map.

REMARKS.--The figures of water levels as elevation NGVD prior to Oct. 1, 1978, are in error. Revised records are available in files of the Geological Survey. Additional measurements were made to better define low water conditions during the 1981 water year.

PERIOD OF RECORD.--1951, 1957, 1970 (annually); January 1976 to current year (bimonthly). 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, 48.16 ft (14.68 m) NGVD, present datum, Nov. 13, 1951, July 10, 1957; lowest measured, 36.67 ft (11.18 m) NGVD, May 6, 1981.

ELEVATIONS, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			FEB		
05...	1255	40.26	01...	1030	37.96
NOV			APR		
02...	1000	39.06	01...	1533	40.66
30...	1215	38.46			
JAN					
04...	---	39.86			

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1981 TO SEPTEMBER 1982

INDIAN RIVER COUNTY

STATION NUMBER	STATION NAME	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF MEASURE- MENT	ELEV- ATION ABOVE NGVD (FEET)
273357080220201	73302201 MIDWAY MHP SOUTH OF OSLO	27 33 57	080 22 02	01	82-05-10 82-09-13	35.80 35.50
273409080265201	73402601 IR 252 KINGS HIGHWAY SW OF OSLO	27 34 09	080 26 52	01	82-05-10 82-09-13	38.10 38.60
273501080302101	73503001 DR MOORE OSLO ROAD WEST OF OSLO	27 35 01	080 30 21	01	82-05-10 82-09-13	40.00 41.00
273526080261001	73502601 ALBERT HELSETH OSLO ROAD W OF OSLO	27 35 26	080 26 10	01	82-05-10 82-09-13	37.30 38.30
273559080370301	73503703 TECH OHM GR 122 AVE WEST OF VB,FL	27 35 59	080 37 03	01	82-05-10 82-09-13	42.30 40.30
273632080364501	73603001 IR 266 CITRUS ROAD & 90TH AVE W OF VB	27 36 32	080 30 45	01	82-05-10 82-05-10 82-09-13 82-09-13	39.50 38.56 41.00 40.06
273819080260101	73802602 IR 228 F POLLOCK SR 60&MAIN CANAL VERO	27 38 19	080 26 01	01	82-05-11 82-05-11 82-09-13 82-09-13	35.10 36.45 36.10 37.45
273821080273901	73802701 SR 60 EAST OF SR 505	27 38 21	080 27 39	01	82-05-10 82-09-13	36.65 38.15
273827080322001	73803201 SR 60 WEST OF I-95 WEST OF VERO BEACH	27 38 27	080 32 20	01	82-05-10 82-09-13	37.30 38.30
273859080235101	73802307 30TH STREET VERO BEACH	27 38 59	080 23 51	01	82-05-11 82-09-14	34.70 35.70
274008080255301	74002504 JACKSON GROVES S GIFFORD & 43RD AVE	27 40 08	080 25 53	01	82-05-11 82-09-14	36.40 36.90
274028080384301	74003801 DIAMOND G FARM SR 512 SW OF FELLSMERE	27 40 28	080 38 43	01	82-05-10 82-09-13	46.15 47.65
274055080281301	74002801 IR 210 LINDSEY RD W OF GIFFORD	27 40 55	080 28 13	01	82-05-10 82-09-14	34.00 35.00
274114080474901	74104702 L PRESSLEY BLUE CYPRESS RD	27 41 14	080 47 49	01	82-05-10 82-09-13	40.75 43.25
274121080241701	74102401 IR 233 KENNEDY GROVE N OF GIFFORD,FL	27 41 21	080 24 17	01	82-05-11 82-05-11 82-09-14 82-09-14	35.00 35.65 35.60 36.25
274125080305101	74103001 H CORRIGAN RANCH RD NW OF GIFFORD	27 41 25	080 30 51	01	82-05-10 82-09-14	36.30 36.80
274240080264201	74202602 L BURGESS S WINTER BEACH RD W OF WB	27 42 40	080 26 42	01	82-05-10 82-09-14	34.30 35.30
274331080413201	74304102 FELLSMERE JV LATERAL 29 W OF FELLSMERE	27 43 31	080 41 32	01	82-05-10 82-09-13	42.50 43.50
274452080275501	74402701 IR 147 A S PFARR SR 510 W OF WEBASSO	27 44 52	080 27 55	01	82-05-10 82-09-14	36.45 36.95
274459080490501	74404901 ROLLINS RANCH NORTH OF YEEHAW JUNCTION	27 44 59	080 49 05	01	82-05-10 82-09-13	43.00 44.00
274528080412901	74504103 FELLSMERE JV LAT 18W OF FELLSMERE,FL	27 45 28	080 41 29	01	82-05-10 82-09-13	43.00 46.50
274621080300901	74603001 ROSELAND ACRES SW OF SEBASTIAN	27 46 21	080 30 09	01	82-05-10 82-09-13	36.50 37.00
274635080363001	74603601 IR 183 JOE SCREWS SR 507 FELLSMERE, FL	27 46 35	080 36 30	01	82-05-10 82-09-13	37.00 39.00
274815080254101	74802501 IR 33 A J BYRD JUNGLE TR N OF ORCHID,FL	27 48 15	080 25 41	01	82-05-11 82-09-13	36.00 37.00
274833080301601	74803001 DALE WIMBROW PARK SR 505 S OF ROSELAND	27 48 33	080 30 16	01	82-05-10	35.00
274857080493401	74804901 YATES WELL NEAR SEBASTIAN,FL	27 48 57	080 49 34	01	82-05-10 82-09-13	42.70 43.50

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1981 TO SEPTEMBER 1982

INDIAN RIVER COUNTY--Continued

STATION NUMBER	STATION NAME	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF MEASURE- MENT	ELEV- ATION ABOVE NGVD (FEET)
274915080362501	74903601 IR 180 A BECKMAN SR 507 N OF FELLSMERE	27 49 15	080 36 25	01	82-05-10 82-09-13	39.40 40.90
275018080261201	75002601 MCLARTY MUSEUM SEBASTIAN INLET, FL	27 50 18	080 26 12	01	82-05-11 82-09-13	34.40 35.40
275047080292401	75002903 KIP WAGNER ROSELAND, FL	27 50 47	080 29 24	01	82-05-10 82-09-14	35.00 35.00
275117080270401	75102702 STATE PARK SEBASTIAN INLET, FL UNUSED	27 51 17	080 27 04	01	82-05-11 82-09-13	31.00 32.00

WATER RESOURCES DATA FOR FLORIDA, 1982
Volume 1B: Northeast Florida

KEY TO SITE LOCATIONS ON FIGURE 15
LAKE COUNTY

Index number	Site number	Page number
1	283204081544901	94
1	283204081544902	94
2	283230081455901	95
2	283314081455501	95
3	284445081462101	96
4	284842081533001	96
5	284855081520401	97
6	290950081315501	97

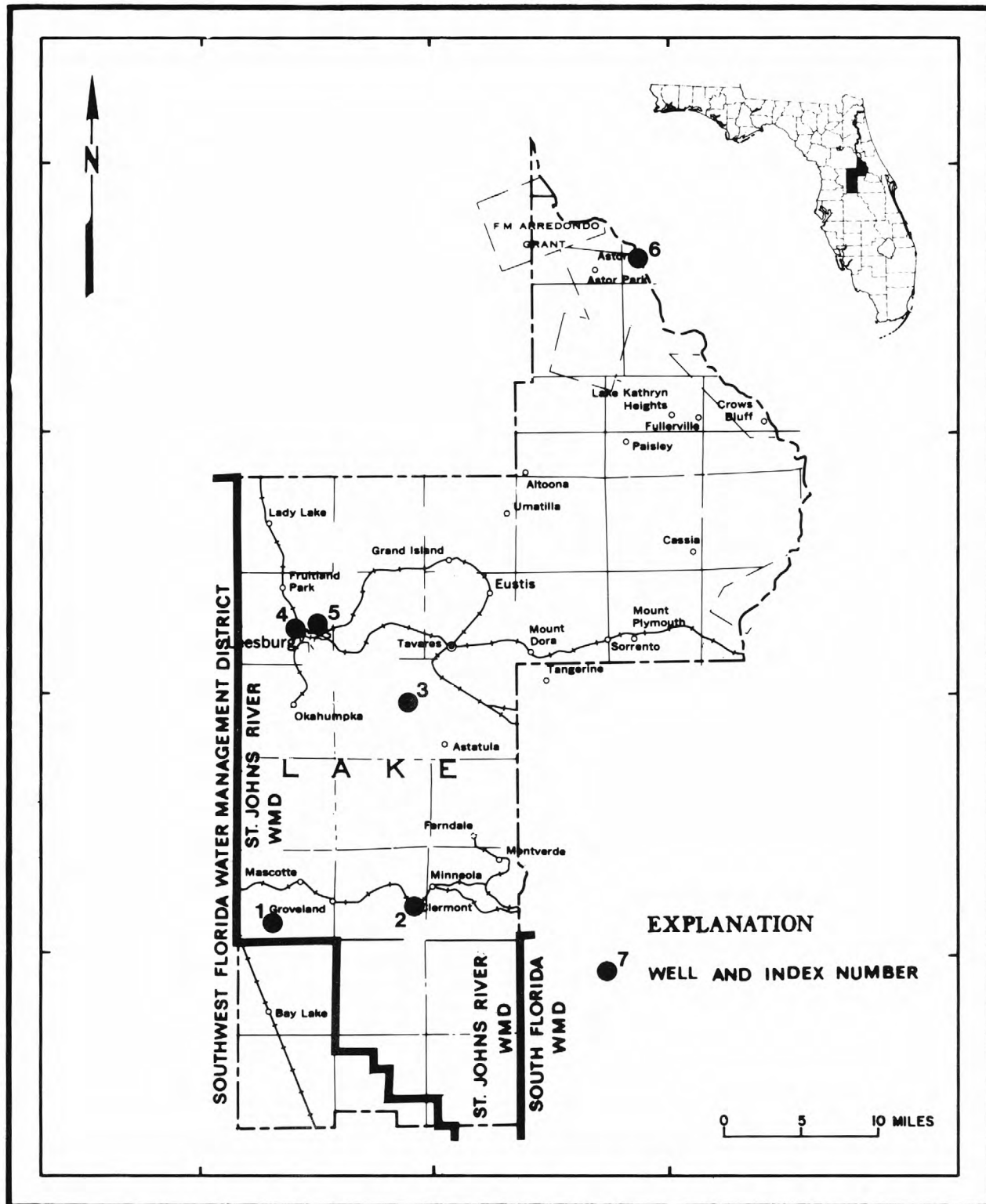


FIGURE 15. LOCATION OF WELLS IN LAKE COUNTY.

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

LAKE COUNTY

WELL NUMBER.--283204081544901. Local Number 832-154-334. Mascotte Deep Well near Mascotte, FL.

LOCATION.--Lat 28°32'04", long 81°54'49", in SW¼NW¼NE¼ sec.33, T.22 S., R.24 E., Hydrologic Unit 03100208, on east side of State Highway 565, 75 ft (23 m) east of Midway Baptist Church, and 3.6 mi (5.8 km) south of State Highway 50 in Mascotte.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in (15 cm), depth 160 ft (49 m), cased to 63 ft (19 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of recorder shelf, 2.35 ft (0.72 m) above land-surface datum.

DATUM.--Land-surface datum is 103.51 ft (31.55 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--January 1959 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, 102.54 ft (31.25 m) NGVD, Sept. 26, 27, 1979; lowest, 96.66 ft (29.46 m) NGVD, May 25, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	100.51	100.51	99.74	100.79	100.52	100.43	100.57	100.18	100.93	101.23	100.57	101.20
10	100.32	100.42	99.67	100.54	100.53	100.78	101.28	99.98	100.52	101.51	100.46	101.20
15	100.16	100.20	99.79	101.06	100.47	100.56	101.02	99.69	100.67	101.27	100.63	100.85
20	99.93	100.08	99.55	100.84	100.92	100.39	100.76	99.43	101.50	101.01	100.78	100.66
25	100.07	99.93	99.50	100.80	100.68	100.56	100.60	100.39	101.71	100.80	100.45	101.56
EOM	99.88	99.87	100.90	100.61	100.59	100.84	100.40	101.12	101.29	100.71	100.57	101.88
MAX	100.69	100.52	100.98	101.18	101.24	101.06	101.42	101.12	101.89	101.51	100.80	101.95
WTR YR 1982	MEAN	100.59	MAX	101.95	SEP 26	MIN	99.37	MAY 21				

WELL NUMBER.--283204081544902. Local Number 832-154-334A. Mascotte Shallow Well near Mascotte, FL.

LOCATION.--Lat 28°32'04", long 81°54'49", in SW¼NW¼NE¼ sec.33, T.22 S., R.24 E., Hydrologic Unit 03100208, on east side of State Highway 565, 75 ft (23 m) east of Midway Baptist Church, and 3.6 mi (5.8 km) south of State Highway 50 in Mascotte.

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

WELL CHARACTERISTICS.--Drilled, observation, nonartesian well, diameter 6 in (15 cm), depth 30 ft (9 m), cased to 16 ft (5 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of recorder shelf, 2.49 ft (0.76 m) above land-surface datum.

DATUM.--Land-surface datum is 103.51 ft (31.55 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--January 1959 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, 103.51 ft (31.55 m) NGVD, estimated, Sept. 11, 1960; lowest, 97.34 ft (29.67 m) NGVD, May 27, 1975.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	101.14	101.70	100.49	101.63	101.31	101.23	101.28	100.91	101.87	102.18	101.34	102.51
10	100.97	101.39	100.41	101.31	101.45	101.56	102.34	100.72	101.19	102.51	101.33	102.56
15	100.80	100.93	100.74	102.06	102.07	101.33	101.72	100.50	101.39	102.48	101.68	101.67
20	100.64	100.78	100.43	101.60	101.70	101.15	101.45	100.31	102.17	101.77	101.62	101.43
25	100.93	100.66	100.37	101.64	101.43	101.69	101.32	101.60	102.64	101.62	101.15	103.11
EOM	100.58	100.57	102.13	101.36	101.34	101.64	101.11	102.45	101.93	101.48	101.40	103.10
MAX	101.31	101.70	102.66	102.71	102.60	102.43	102.89	102.45	103.19	102.83	101.91	103.27
WTR YR 1982	MEAN	101.45	MAX	103.27	SEP 26	MIN	100.27	MAY 21				

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

LAKE COUNTY

WELL NUMBER.--283230081455901. Local Number 832-145-334. Clermont Deep Well at Clermont, FL.

LOCATION.--Lat 28°32'30", long 81°45'59", in NE¼NE¼SW¼ sec.25, T.22 S., R.25 E., Hydrologic Unit 03080102, in orange grove on extension of Settle Street on north side of Lake Minnehaha in Clermont.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in (10 cm), depth 135 ft (41 m), cased to 95 ft (29 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of casing, 2.90 ft (0.88 m) above land-surface datum.

DATUM.--Land-surface datum is 110.39 ft (33.65 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--February 1972 to December 1981 (discontinued). 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, 86.87 ft (26.48 m) NGVD, Oct. 16, 23, 1979; lowest, 79.29 ft (24.17 m) NGVD, May 23, 1981.

ELEVATION, IN FEET NGVD, FOR PERIOD OCTOBER TO DECEMBER 1981
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	81.54	80.79	80.86									
10	---	80.83	---									
15	---	80.93	---									
20	---	80.96	---									
25	---	80.96	---									
EOM	80.68	80.96	---									
MAX	81.66	80.96	80.96									
WTR YR 1982	MEAN	80.97	MAX	81.66	OCT 1 AND OTHERS			MIN	80.68	OCT 30 AND OTHERS		

WELL NUMBER.--283314081455501. Local Number 833-145-01. City Well Replacement in Clermont, FL.

LOCATION.--Lat 28°33'14", long 81°45'55", in NE¼NE¼SW¼ Sec.24, T.22 S., R.25 E., Hydrologic Unit 03080102, on Lake Avenue 0.2 mi (0.3 km) north of State Highway 50 in Clermont.

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

WELL CHARACTERISTICS.--Drilled, domestic well, diameter 8 in (20 cm), depth 525 ft (160 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of recorder shelf, 1.03 ft (0.31 m) above land-surface datum.

DATUM.--Land-surface datum is 150 ft (46 m), from topographic map.

REMARKS.--Record is equivalent to that for Clermont Deep (283230081455901), available February 1972 to December 1981.

PERIOD OF RECORD.--May to September 1982.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 83.94 ft (25.58 m) NGVD, Sept. 26, 30, 1982; lowest, 80.62 ft (24.57 m) May 22, 1982.

ELEVATION, IN FEET NGVD, FOR PERIOD MAY TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5								---	81.57	82.41	83.16	83.51
10								---	81.56	82.54	83.07	83.63
15								---	81.59	82.64	83.20	83.70
20								80.78	81.86	82.79	83.29	83.66
25								80.86	82.07	83.00	83.42	83.83
EOM								81.30	82.25	83.11	83.51	83.94
MAX								81.30	82.25	83.12	83.54	83.94
WTR YR 1982	MEAN	82.65	MAX	83.94	SEP 26 AND OTHERS			MIN	80.62	MAY 22		

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

LAKE COUNTY

WELL NUMBER.--284445081462101. Local Number 844-146-244. Lake Yale Groves Well near Tavares, FL.

LOCATION.--Lat 28°44'45", long 81°46'21", in SE¼SW¼ sec.13, T.20 S., R.25 E., Hydrologic Unit 03080102, on north side of Little Lake Harris, 0.2 mi (0.3 km) west of State Highway 19, and 3.8 mi (6.1 km) south of Tavares.

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

WELL CHARACTERISTICS.--Drilled, irrigation, artesian well, diameter 8 in (20 cm), depth 200 ft (61 m), cased to 112 ft (34 m).

INSTRUMENTATION.--Airline or tape measured. Measuring point: Top of 8 in (20 cm) coupling at land-surface datum.

DATUM.--Land-surface datum is 64.75 ft (19.74 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--May 1963 (annually); October 1963 to current year (bimonthly). 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, 70.45 ft (21.47 m) NGVD, Mar. 13, 1970; lowest measured, 62.51 ft (19.05 m) NGVD, May 12, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT 08...	1605	64.20	MAR 23...	1335	64.80
DEC 03...	1300	64.00	MAY 17...	1720	64.16
JAN 25...	1610	64.69	SEP 14...	1330	68.35

WELL NUMBER.--284842081533001. Local Number 848-153-01. College Street Well at Leesburg, FL.

LOCATION.--Lat 28°48'42", long 81°53'30", in SW¼NE¼NE¼ sec.27, T.19 S., R.24 E., Hydrologic Unit 03080102, on west side of College Street, near water tank, 350 ft (107 m) north of West Main Street in Leesburg.

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

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 12 in (30 cm), depth 245 ft (75 m), cased to 90 ft (27 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Edge of flange, 1.2 ft (0.4 m) above land-surface datum.

DATUM.--Land-surface datum is 93.10 ft (28.38 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--September 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, 69.00 ft (21.03 m) NGVD, Sept. 28, 1982; lowest, 57.29 ft (17.46 m) NGVD, May 16, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	60.18	60.70	60.62	60.40	60.12	60.72	62.49	62.17	66.21	67.94	68.50	67.47
10	59.75	60.73	59.74	---	60.00	62.11	63.59	62.71	65.27	68.70	67.95	68.45
15	60.12	60.92	59.75	---	61.02	62.49	62.76	60.75	65.27	68.28	68.24	68.54
20	59.81	60.44	59.94	---	60.82	61.25	63.34	61.26	67.02	68.41	68.44	68.34
25	60.02	60.42	60.08	---	60.79	61.81	63.80	63.03	67.51	68.60	68.01	68.35
EOM	60.47	60.50	60.44	59.89	61.23	62.26	62.87	65.84	67.73	68.63	67.59	68.80
MAX	60.59	60.92	61.20	61.45	61.85	63.08	64.49	65.84	67.99	68.87	68.65	69.00
WTR YR 1982	MEAN	63.56	MAX	69.00	SEP 28	MIN	58.79	DEC 23				

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

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LAKE COUNTY

WELL NUMBER.--284855081520401. Local Number Lake 848-152-01. Herlong Park Well at Leesburg, FL.

LOCATION.--Lat 28°48'55", long 81°52'04", in SE¼SW¼SW¼ sec.24, T.19 S., R.24 E., Hydrologic Unit 03080102, on north side of Herlong Park, 450 ft (137 m) north of U.S. Highway 44 Bypass in Leesburg.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in (10 cm), depth 105 ft (32 m), cased to 100 ft (30 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of casing, 3.30 ft (1.01 m) above land-surface datum.

DATUM.--Land-surface datum is 60.61 ft (18.47 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--April 1974 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 65.46 ft (19.95 m) NGVD, Sept. 13, 1982; lowest measured, 49.67 ft (15.14 m) NGVD, May 1, 1974.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT 08...	1540	57.23	MAY 14...	1232	52.95
DEC 02...	1300	58.79	JUL 20...	1320	63.63
JAN 26...	1115	53.89	SEP 13...	1043	65.46
MAR 29...	0950	59.20			

WELL NUMBER.--290950081315501. Local Number Lake 909-131-1. USGS Observation Well at Astor Park, FL.

LOCATION.--Lat 29°09'50", long 81°31'55", in land grant 37, T.15 S., R.28 E., Hydrologic Unit 03080101, at residence 200 ft (61 m) north of State Highway 40, and 1.0 mi (1.6 km) west of St. Johns River at Astor Park.

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

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 5 in (15 cm), depth 254 ft (77 m), casing length unknown.

INSTRUMENTATION.--Tape measured. Measuring point: Top of 6 in (15 cm) coupling, 2.30 ft (0.70 m) above land-surface datum.

DATUM.--Land-surface datum is 17.78 ft (5.42 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--February 1936 to December 1949 (monthly); January 1950 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.15 ft (5.23 m) NGVD, in October 1945; lowest measured, 10.69 ft (3.26 m) NGVD, June 17, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT 20...	1110	12.31	JUN 07...	1020	12.98
DEC 14...	1100	11.96	AUG 10...	1135	14.06
FEB 08...	1115	12.28	SEP 16...	1728	14.38
MAR 30...	1000	13.18	28...	1220	14.50
MAY 12...	1251	12.98			

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1981 TO SEPTEMBER 1982

LAKE COUNTY

STATION NUMBER	STATION NAME	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF MEASURE- MENT	ELEV- ATION ABOVE NGVD (FEET)
282126081403901	821140 24S26E35	28 21 26	081 40 39	01	82-05-11 82-09-15	115.78 118.41
282443081425201	82414201 24S26E09 LYKES GROVE	28 24 43	081 42 52	01	82-05-12 82-09-21	110.53 113.83
282633081425601	BRADSHAW WINDMILL	28 26 33	081 42 56	01	82-05-11 82-09-15	89.28 91.56
282640081470501	82614701 23S25E35 CENTRAL GROVES INC	28 26 40	081 47 05	01	82-05-11 82-09-13	108.25 110.66
282643081395401	826139 23S26E36 MCMILLIAN BROS	28 26 43	081 39 54	01	82-05-11 82-09-15	87.90 89.76
282823081500401	82815001 23S25E20 D D GAFFNEY	28 28 23	081 50 04	01	82-05-11 82-09-13	102.49 103.93
282829081413601	82814101 23S26E22 HI ACRES	28 28 29	081 41 36	01	82-05-11 82-09-21	77.81 84.44
282954081463001	LAKE 829-146-02 J PRIEBE	28 29 54	081 46 30	01	82-05-11 82-09-13	87.75 90.55
283031081440201	83014402 23S26E05 OIL WELL	28 30 31	081 44 02	01	82-05-12 82-09-21	58.75 59.41
283111081502001	831150 23S25E06	28 31 11	081 50 20	01	82-05-12 82-09-21	97.81 99.93
283232081394101	83213902 22S26E25	28 32 32	081 39 41	01	82-05-10 82-09-13	78.91 81.57
283307081435301	83314301 22S26E20 JACKS LAKE WELL	28 33 07	081 43 53	01	82-05-13 82-09-13	76.36 79.20
283314081455501	CITY WELL AT CLERMONT	28 33 14	081 45 55	01	82-05-17 82-09-01	80.91 83.41
283351081400101	833140-- 22S26E24 RD KEENE	28 33 51	081 40 01	01	82-05-10 82-09-14	69.74 73.76
283359081411501	22S26E14 332	28 33 59	081 41 15	01	82-05-10 82-09-13	72.72 74.52
283422081480401	834148 22S25E15 SAND MINE 565A	28 34 22	081 48 04	01	82-05-11 82-09-13	89.15 91.12
283530081514501	83515101 22S24E12 NEAP LAKE LUCY	28 35 30	081 51 45	01	82-05-12 82-09-15	84.50 88.98
283540081402401	22S26E01 333	28 35 40	081 40 24	01	82-05-10 82-09-14	71.32 74.54
283711081420101	83714201 22S26E34 E HENDERSON	28 37 11	081 42 01	01	82-05-10	75.68
283736081444601	83714401 21S26E30 KING HUPPEL UNC.	28 37 36	081 44 46	01	82-05-10 82-09-14	67.37 69.56
283829081481701	83814801 TURNPIKE CHEVRON	28 38 29	081 48 17	01	82-05-10 82-09-14	80.52 83.40
283830081534901	83815301 21S24E27 M J VITTI	28 38 30	081 53 49	01	82-05-12 82-09-15	88.05 89.50
284129081414201	21S26E03 214	28 41 29	081 41 42	01	82-05-17 82-09-23	67.32 70.07
284135081565501	84115601 21S24E06 841156113 BUSH CITRUS	28 41 35	081 56 55	01	82-05-13	74.76
284232081533001	842153142 20S24E34	28 42 32	081 53 30	01	82-05-12 82-09-15	80.38 83.08
284236081440101	842144244 20S26E29	28 42 36	081 44 01	01	82-05-10 82-09-14	68.40 70.00
284241081402601	84214001 20S26E25 USGS	28 42 41	081 40 26	01	82-05-13 82-09-23	55.86 62.83
284245081463302	84214602 20S25E26 NUMBER 2	28 42 45	081 46 33	02	82-09-14	74.76

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1981 TO SEPTEMBER 1982

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LAKE COUNTY--Continued

STATION NUMBER	STATION NAME	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF MEASURE- MENT	ELEV- ATION ABOVE NGVD (FEET)
284258081495701	84214901 20S25E29	28 42 58	081 49 57	01	82-05-10 82-09-14	74.60 77.77
284320081410701	843141-- 20S26E26 APOPKA BEAUCLAIR CANAL	28 43 20	081 41 07	01	82-05-13	60.31
284328081515901	843151 20S24E25	28 43 28	081 51 59	01	82-05-10 82-09-14	78.31 81.64
284503081515501	84515101 20S24E13 HAWTHORNE IRRIGATION	28 45 03	081 51 55	01	82-05-10 82-09-14	86.01 85.84
284728081322201	LAKE 847-132-1 SORRENTO	28 47 28	081 32 22	01	82-05-10 82-09-14	47.95 51.82
284757081543002	C R WILLIAMS WELL	28 47 57	081 54 30	02	82-09-13	70.98
284759081500101	84715001 19S25E32 SUNNYSIDE	28 47 59	081 50 01	01	82-05-14 82-09-14	64.67 68.87
284808081432801	84814301 19S26E28 TAVERAS WELL 3	28 48 08	081 43 28	01	82-05-10 82-09-14	59.86 62.53
284826081254601	84812502 19S29E29 SPENCER HARDIN	28 48 26	081 25 46	01	82-05-10 82-09-14	21.25 22.34
284827081403501	848140-- 19S26E26 D BARTHOLOW	28 48 27	081 40 35	01	82-05-10 82-09-13	58.53 61.82
284844081512201	84815101 19S24E25 GAS PLANT	28 48 44	081 51 22	01	82-05-14 82-09-13	59.37 66.16
284856081383001	CITY OF MT.DORA,FL. WELL NO.3	28 48 56	081 38 30	01	82-05-10 82-09-14	51.10 54.50
284857081570901	84815701 19S24E19 848157444 J ALIBRANDI	28 48 57	081 57 09	01	82-05-14 82-09-20	69.55 72.54
284917081353701	84913501 19S27E22 RICKEY AND REED	28 49 17	081 35 37	01	82-05-18 82-09-14	48.16 52.63
284927081495201	84914901 19S25E20 CLARK BUFORD	28 49 27	081 49 52	01	82-05-14 82-09-13	61.60 65.74
284929081294901	849129 19S28E22	28 49 29	081 29 49	01	82-05-10 82-09-14	41.25 45.25
284934081474801	849147-- 19S25E22 LAKE SUMTER JC	28 49 34	081 47 48	01	82-05-14 82-09-14	61.91 65.53
285018081393901	85013901 19S26E13 EICHELBEIGER	28 50 18	081 39 39	01	82-05-10 82-09-14	51.79 55.95
285028081253301	85012501 19S29E--	28 50 28	081 25 33	01	82-05-13 82-09-28	23.17 24.97
285057081321301	NEW HEINDRICK WELL NR MOUNT PLYMOUTH	28 50 57	081 32 13	01	82-05-13 82-09-14	40.55 46.03
285106081234801	85112301 19S29E--	28 51 06	081 23 48	01	82-05-13 82-09-28	22.20 24.10
285129081541002	CITY OF FRUITLAND PK #2 S COMM BLDG	28 51 27	081 54 51	01	82-05-14 82-09-13	59.59 65.33
285244081471401	852147 18S25E35	28 52 44	081 47 14	01	82-05-11 82-09-14	58.79 62.69
285257081434201	852143121 18S26E32 J EICHEL BADGER	28 52 57	081 43 42	01	82-05-11 82-09-14	56.75 61.38
285318081281801	853128 16S28E25	28 53 18	081 28 18	01	82-05-11 82-09-15	38.15 39.65
285318081340601	853134 18S27E25 EUSTIS SAND CO	28 53 18	081 34 06	01	82-05-18 82-09-15	46.64 50.41
285424081541601	LADY LK MOBILE HOME PK	28 54 24	081 54 16	01	82-05-14 82-09-20	56.22 62.61
285426081380901	854138 18S27E20 N B MARSHALL	28 54 26	081 38 09	01	82-05-11 82-09-15	52.37 56.17

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1981 TO SEPTEMBER 1982

LAKE COUNTY--Continued

STATION NUMBER	STATION NAME	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF MEASURE- MENT	ELEV- ATION ABOVE NGVD (FEET)
285452081563201	85415601 18S24E19	28 54 52	081 56 32	01	82-05-14 82-09-20	53.87 60.82
285504081405901	855140-- 18S26E14 AUSTIN GROVES	28 55 04	081 40 59	01	82-05-11 82-09-15	43.81 54.61
285539081262901	PINE LAKES WELL ON SR 44	28 55 39	081 26 29	01	82-05-11 82-09-15	36.42 38.03
285545081312701	ED KELL WELL	28 55 45	081 31 27	01	82-05-18 82-09-15	46.06 48.69
285606081240401	PINE LAKES EAST WELL	28 56 06	081 24 04	01	82-05-13 82-09-20	28.15 29.99
285627081400001	856140 18S26E12	28 56 27	081 40 00	01	82-05-11 82-09-17	54.11 58.79
285645081492401	856149-- 18S25E09 D K HARTMAN	28 56 45	081 49 24	01	82-05-11 82-09-15	54.88 59.62
285707081441101	857144-- 18S26E05 J F ERVIN EST	28 57 07	081 44 11	01	82-05-11 82-09-15	48.95 52.64
285722081360501	85713601 18S27E03	28 57 22	081 36 05	01	82-05-11 82-09-20	44.94 48.30
285726081465601	857146-- 18S25E02	28 57 26	081 46 56	01	82-05-11 82-09-18	55.33 59.89
285827081331401	85813301 17S28E31	28 58 27	081 33 14	01	82-05-11 82-09-15	43.19 45.02
290000081380001	90013801 17S27E17 PITMAW WORKS	29 00 44	081 38 28	01	82-05-12 82-09-16	45.72 48.94
290038081355401	SEC 15 WELL NR PAISLEY	29 00 38	081 35 54	01	82-05-18	40.03
290047081232501	900123-- 17S29E-- U S FOREST SERV.	29 00 47	081 23 25	01	82-05-11 82-09-15	16.06 17.76
290105081292701	OLEANDER RD	29 01 05	081 29 27	01	82-05-11 82-09-15	37.20 38.89
290105081363401	MEADOWS SUBDIV NR ASTOR PK	29 01 05	081 36 34	01	82-09-17	39.20
290153081272501	HUNT CAMP AT CLAY LAKE NR FULLERVILLE	29 01 53	081 27 25	01	82-05-13 82-09-15	34.39 36.45
290208081250201	ST FRANCIS WELL NR CROWS BLUFF	29 02 08	081 25 02	01	82-05-13 82-09-20	19.08 11.48
290222081371601	ALEXANDER SP GROCERY NR ASTOR PK	29 02 22	081 37 16	01	82-05-18 82-09-16	58.82 61.87
290244081302601	90213001 17S28E03	29 02 44	081 30 26	01	82-05-12 82-09-16	16.41 17.08
290420081311701	AMOCO WATER WELL #1A	29 04 20	081 31 17	01	82-05-12	40.03
290445081344001	90413401 --S27E-- U S FOREST SERV.	29 04 45	081 34 40	01	82-05-12 82-09-16	16.33 16.94
290633081375201	90613701 16S27E18 CAMP OCALA	29 06 33	081 37 52	01	82-05-12 82-09-16	32.44 34.50
290647081342101	N ALEXANDER SP NR ASTOR PARK	29 06 47	081 34 21	01	82-05-13 82-09-16	32.47 35.37
290650081314001	906131 15S28E-- JOHNSON	29 06 50	081 31 40	01	82-05-12 82-09-17	18.06 19.80
290820081305001	908130 16S28E-- FRANK SAUL	29 07 15	081 30 30	01	82-05-12 82-09-17	15.44 16.58
290900081342002	909134 15S27E-- ASTOR PARK	29 09 00	081 34 20	02	82-05-18 82-09-17	30.27 33.19
290910081360001	909136 15S27E33 4 H CLUB FOUND	29 09 10	081 36 00	01	82-05-12 82-09-16	44.18 45.54
291107081340601	91113401 15S27E14 BROWN	29 11 07	081 34 06	01	82-05-12 82-09-16	12.71 14.11
291449081381701	91413801 14S27E30 ENGLISH	29 14 49	081 38 17	01	82-05-12 82-09-16	4.61 5.57

KEY TO SITE LOCATIONS ON FIGURE 16
MARION COUNTY

Index number	Site number	Page number
1	285900082072001	103
2	285930081500501	103
3	290220081562001	104
4	290455081530401	104
5	290810082025001	105
6	291100082010003	105
7	291110082060001	106
8	291115081592501	106
9	291120082102501	107
10	291130082015001	107
11	291740081562001	108
12	292015082065001	108
13	292200081510001	109
14	292546081513301	109

WATER RESOURCES DATA FOR FLORIDA, 1982
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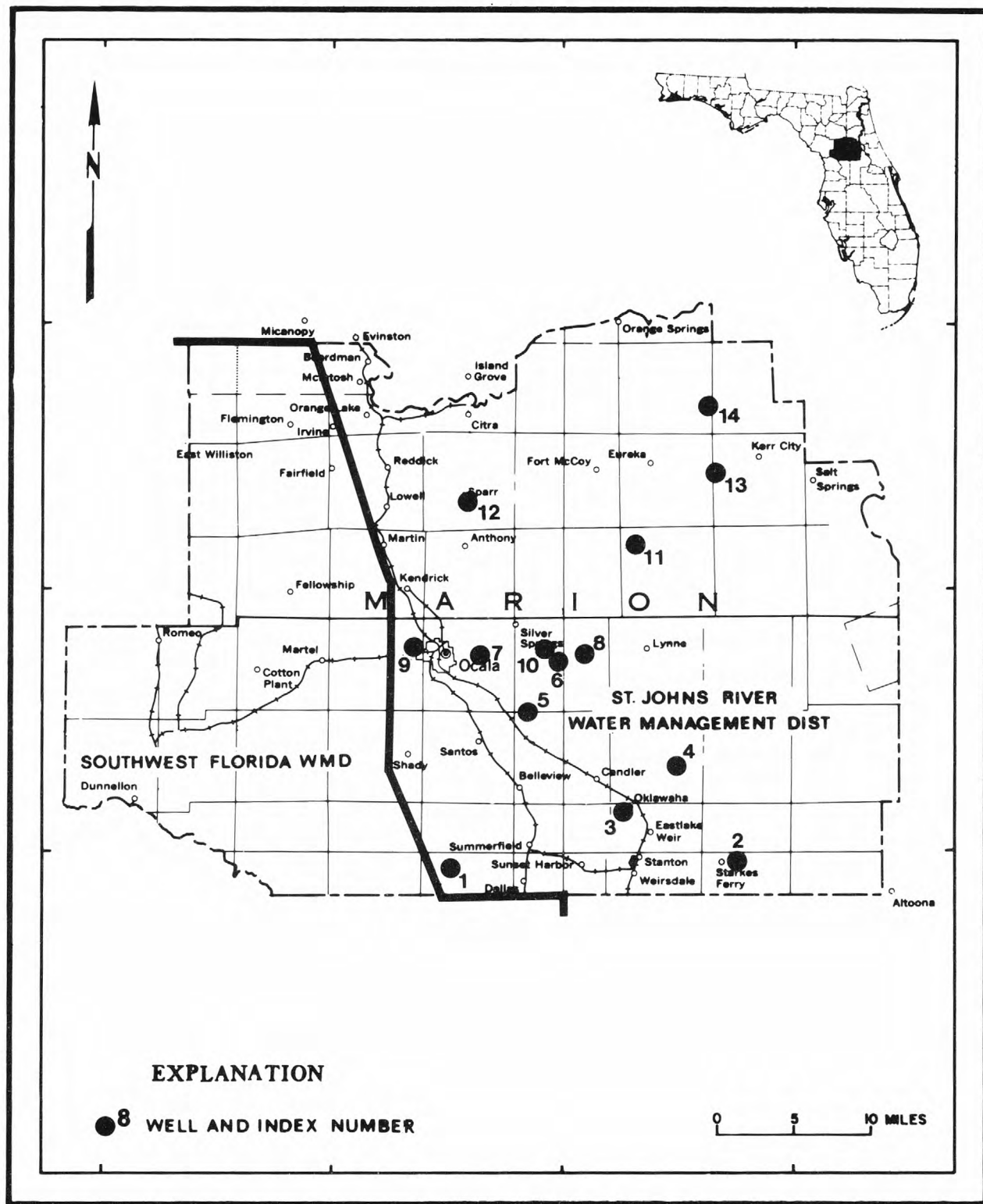


FIGURE 16. LOCATION OF WELLS IN MARION COUNTY.

MARION COUNTY

WELL NUMBER.--285900082072001. Local Number CE-36. USGS Observation Well CE 36 at Pedro, FL.

LOCATION.--Lat 28°59'00", long 82°07'20", in NE¼SE¼NE¼ sec.29, T.17 S., R.22 E., Hydrologic Unit 03100208, on west side of State Highway 475A, 12.8 mi (20.6 km) south of Ocala, and 0.2 mi (0.3 km) north of State Highway 42 at Pedro.

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

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 6 in (15 cm), depth 66 ft (20 m), cased to 45 ft (14 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of casing, 2.00 ft (0.61 m) above land-surface datum.

DATUM.--Land-surface datum is 74.84 ft (22.81 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--March 1966 to September 1977; October 1977 to current year (bimonthly). 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, 53.38 ft (16.27 m) NGVD, Sept. 13, 1982; lowest measured, 43.22 ft (13.17 m) NGVD, Oct. 26, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
26...	0830	43.22	10...	1630	48.41
DEC			JUN		
15...	1515	43.61	08...	1030	48.00
FEB			AUG		
12...	1340	43.78	30...	0900	53.13
APR			SEP		
13...	1420	46.97	13...	1630	53.38

WELL NUMBER.--285930081500501. Local Number Marion 859-150-01. USGS Observation Well Mar 48 Replacement near Oklawaha, FL.

LOCATION.--Lat 28°59'30", long 81°50'05", in NW¼SE¼SW¼ sec.20, T.17 S., R.25 E., Hydrologic Unit 03080102, at fish camp north of State Highway 42, on east side of Oklawaha River at Starkes Ferry, and 7 mi (11 km) southeast of Oklawaha.

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

WELL CHARACTERISTICS.--Drilled, unused, domestic well, diameter 4 in (10 cm), depth unknown.

INSTRUMENTATION.--Tape-measured. Measuring point: Hole in sanitary seal, 1.30 ft (0.40 m) above land-surface datum.

DATUM.--Land-surface datum is 61.01 ft (18.60 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Record is equivalent to that for Mar 48 (285920081490501), available March 1936 to September 1980.

PERIOD OF RECORD.--October 1980 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 56.27 ft (17.15 m) NGVD, July 20, 1982; lowest measured, 48.09 ft (14.66 m) NGVD, Jan. 29, 1982.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
13...	1235	48.29	11...	1515	50.91
DEC			JUL		
02...	0900	48.13	20...	1010	56.27
JAN			SEP		
29...	1500	48.09	14...	0945	56.05
MAR					
24...	0955	49.30			

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

MARION COUNTY

WELL NUMBER.--290220081562001. Local Number Marion 902-156-01. USGS Observation Well CE 42 at Oklawaha, FL.

LOCATION.--Lat 29°02'20", long 81°56'20", in NW¼NE¼SE¼ sec.6, T.17 S., R.24 E., Hydrologic Unit 03080102, on south side of Alternate U.S. Highway 441, and 0.75 mi (1.21 km) west of Moss Bluff Road at Oklawaha.

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

WELL CHARACTERISTICS.--Drilled, public-supply, artesian well, diameter 6 in (15 cm), depth 179 ft (54 m), cased to 165 ft (50 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of casing, 1.47 ft (0.45 m) above land-surface datum.

DATUM.--Land-surface datum is 72.22 ft (22.01 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--April 1936 to May 1950 (monthly); October 1950 to current year (bimonthly, incomplete). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 61.83 ft (18.85 m) NGVD, Oct. 31, 1960; lowest measured, 43.95 ft (13.40 m) NGVD, Feb. 1, 1982.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
FEB 01...	1230	43.95	MAY 11...	1540	47.90
MAR 24...	0845	45.66	SEP 14...	0815	53.04

WELL NUMBER.--290455081530401. Local Number 904-153-01. USGS Observation Well at Moss Bluff Park, FL.

LOCATION.--Lat 29°04'55", long 81°53'04", in NE¼NW¼SW¼ sec.23, T.16 S., R.24 E., Hydrologic Unit 03080102, in park and picnic area on south side of State Highway 464 at Moss Bluff Lock and Dam, 4.2 mi (6.8 km) northeast of Oklawaha.

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

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 8 in (20 cm), depth 225 ft (69 m), cased to 80 ft (24 m).

INSTRUMENTATION.--Pressure gage measured. Measuring Point: Top of flange, 6.09 ft (1.86 m), revised, above land-surface datum. Prior to July 1982, top of recorder shelf 0.09 ft (0.03 m) higher.

DATUM.--Land-surface datum is 50.12 ft (15.28 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--October 1975 to June 1982, July to September 1982 (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 57.50 ft (17.53 m) NGVD, Sept. 27, 1982; lowest, 48.96 ft (14.92 m) NGVD, Dec. 20, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	49.94	49.76	49.22	49.06	49.14	49.78	51.05	52.88	53.23	---	---	---
10	49.82	49.68	49.26	49.09	49.08	50.00	51.52	52.83	53.24	---	---	---
15	49.76	49.61	49.32	49.02	49.18	50.22	52.17	52.67	53.31	56.88	---	---
20	49.66	49.56	48.96	49.13	49.25	50.35	52.56	52.59	53.95	57.06	---	---
25	49.69	49.46	49.10	49.14	49.21	50.50	52.89	52.69	54.94	---	---	---
EOM	49.59	49.38	49.19	49.24	49.35	50.78	52.89	52.95	55.78	---	---	---
MAX	50.16	49.76	49.37	49.33	49.35	50.78	52.92	52.95	55.78	57.13	57.22	57.50
WTR YR 1982	MEAN	51.11	MAX	57.50	SEP 27	MIN	48.96	DEC 20				

MARION COUNTY

WELL NUMBER.--290810082025001. Local Number CE-40. USGS Observation Well CE 40 near Ocala, FL.

LOCATION.--Lat 29°08'10", long 82°02'50", in NW¼SE¼SW¼ sec.31, T.15 S., R.23 E., Hydrologic Unit 03100208, on south side of State Highway 464, 6.5 mi (10.5 km) northwest of Candler, and 4.3 mi (6.9 km) southeast of Ocala.

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

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 6 in (15 cm), depth 110 ft (34 m), cased to 85.5 ft (26.1 m).

INSTRUMENTATION.--Tape measured. Measuring point: Hole in casing at land-surface datum.

DATUM.--Land-surface datum is 87.02 ft (26.52 m) National Geodetic Vertical Datum of 1929. Prior to July 1980, land-surface datum was 87.23 ft (26.59 m).

PERIOD OF RECORD.--March 1966 to September 1977; October 1977 to September 1982 (destroyed). 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, 48.75 ft (14.86 m) NGVD, Sept. 13, 1982; lowest, 40.87 (12.46 m) NGVD, Feb. 1, 1982.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
13...	1425	41.69	10...	1145	45.99
DEC			JUL		
01...	1625	41.28	14...	1755	46.74
FEB			SEP		
01...	1200	40.87	07...	1640	46.40
MAR			13...	1310	48.75
24...	0750	41.77			

WELL NUMBER.--291100082010003. Local Number CE-76. USGS Observation Well CE 76 near Ocala, FL.

LOCATION.--Lat 29°11'00", long 82°01'00", in NE¼NW¼SW¼ sec.16, T.15 S., R.23 E., Hydrologic Unit 03080102, on south side of Sharpes Ferry Road, 6.5 mi (10.5 km) east of Ocala.

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

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 6 in (15 cm), depth 153 ft (47 m), cased to 124 ft (38 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top edge of casing, 3.00 ft (0.91 m) above land-surface datum.

DATUM.--Land-surface datum is 64.51 ft (19.66 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--January 1968 to September 1977; October 1977 to current year (bimonthly). 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, 46.78 ft (14.26 m) NGVD, Apr. 19, 1970; lowest measured, 40.65 ft (12.39 m) NGVD, Jan. 28, 1982.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
14...	1450	41.21	10...	1215	44.39
DEC			JUL		
01...	1000	40.94	14...	0840	46.47
JAN			SEP		
28...	1500	40.65	08...	0910	46.44
MAR					
25...	1400	41.34			

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

MARION COUNTY

WELL NUMBER.--291110082060001. Local Number CE-44. USGS Observation Well CE 44 at Ocala, FL.

LOCATION.--Lat 29°11'10", long 82°06'00", in SW¼SW¼NW¼ sec.15, T.15 S., R.22 E., Hydrologic Unit 03080102, on south side of State Highway 40, 120 ft (37 m) east of Florida Highway Patrol Station at Ocala, and 3.0 mi (4.8 km) west of Silver Springs.

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

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 6 in (15 cm), depth 91 ft (28 m), cased to 34.2 ft (10.4 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of casing, 3.00 ft (0.91 m) above land-surface datum.

DATUM.--Land-surface datum is 102.73 ft (31.31 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--April 1966 to September 1977; October 1977 to current year (bimonthly). 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, 46.50 ft (14.17 m) NGVD, Sept. 13, 1982; lowest, 39.85 ft (12.15 m) NGVD, July 12, 1975.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT 13...	1640	40.58	MAY 10...	1000	44.21
DEC 01...	0910	40.31	JUL 14...	--	46.13
JAN 29...	0945	39.93	SEP 07...	1630	46.12
MAR 26...	0900	40.58	13...	1235	46.50

WELL NUMBER.--291115081592501. Local Number 911-159-433. Sharpes Ferry Well, Marion 5 near Ocala, FL.

LOCATION.--Lat 29°11'15", long 81°59'25", in NE¼SE¼ sec.15, T.15 S., R.23 E., Hydrologic Unit 03080102, on north side of Sharpes Ferry Road, 0.1 mi (0.2 km) east of Oklawaha River, and 7.6 mi (12.2 km) east of Ocala.

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

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 6 in (15 cm), depth 135 ft (41 m), cased to 135 ft (41 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of reducer, 2.55 ft (0.78 m) above land-surface datum.

DATUM.--Land-surface datum is 39.83 ft (12.14 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Well records used to determine flow of Silver Springs.

PERIOD OF RECORD.--January 1933 to July 1947 (weekly); August 1947 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, 55.42 ft (16.89 m) NGVD, Oct. 14, 1960; lowest, 43.18 ft (13.16 m) NGVD, May 7, 1957.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	44.84	44.65	44.26	44.02	44.09	44.28	45.38	48.24	48.26	50.77	51.60	51.45
10	44.82	44.62	44.30	44.06	44.15	44.42	45.89	48.28	48.20	50.97	51.54	51.57
15	44.79	44.58	44.37	43.98	44.08	44.74	47.13	48.19	48.22	51.20	51.56	51.73
20	44.62	44.55	44.08	44.07	44.18	44.91	47.78	48.13	48.63	51.39	51.47	51.81
25	44.72	44.45	44.22	44.11	44.17	45.04	48.16	48.15	49.51	51.44	51.55	51.90
BOM	44.55	44.46	44.19	44.18	44.20	45.14	48.22	48.15	50.38	51.56	51.46	51.98
MEAN	44.77	44.54	44.24	44.08	44.14	44.69	46.87	48.19	48.71	51.16	51.56	51.70
WTR YR 1982	MEAN	47.07	MAX	52.00	SEP 26	MIN	43.96	JAN 11				

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

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MARION COUNTY

WELL NUMBER.--291120082102501. Local Number Marion 910-210-01. USGS Observation Well CE 31 at Ocala, FL.

LOCATION.--Lat 29°11'20", long 82°10'25", in SW¼NE¼ sec.14, T.15 S., R.21 E., Hydrologic Unit 03080102, 900 ft (274 m) west of Alternate U.S. Highway 27, and 0.2 mi (0.3 km) north of State Highway 40, about 2 mi (3 km) west of Ocala.

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

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 4 in (10 cm), depth 106 ft (32 m), casing length unknown.

INSTRUMENTATION.--Tape measured. Measuring point: Top of casing, 0.05 ft (0.02 m) above land-surface datum.

DATUM.--Land-surface datum is 74.61 ft (22.74 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--November 1935 to April 1950 (monthly); June 1950 to current year (bimonthly). 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, 52.98 ft (16.15 m) NGVD, Sept. 17, 1964; lowest measured, 39.77 ft (12.12 m) NGVD, Aug. 10, 1956.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
13...	1615	41.72	10...	1530	46.12
DEC			JUL		
01...	0850	41.36	01...	1223	48.17
JAN			SEP		
29...	0920	40.95	07...	1535	48.94
MAR			13...	1315	49.44
26...	0835	41.78			

WELL NUMBER.--291130082015001. Local Number CE-47. USGS Observation Well CE 47 near Ocala, FL.

LOCATION.--Lat 29°11'30", long 82°01'50", in NW¼NE¼NW¼ sec.17, T.15 S., R.23 E., Hydrologic Unit 03080102, on south side of Sharpes Ferry Road, 1.5 mi (2.4 km) south of Silver Springs, and 5.3 mi (8.5 km) east of Ocala.

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

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 6 in (15 cm), depth 192 ft (59 m), cased to 174.4 ft (53.2 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of casing, 3.00 ft (0.91 m) above land-surface datum.

DATUM.--Land-surface datum is 53.93 ft (16.44 m) National Geodetic Vertical Datum of 1929.

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, 45.50 ft (13.87 m) NGVD, Sept. 13, 1982; lowest, 39.57 ft (12.06 m) NGVD, July 9, 1975.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	40.35	40.19	39.99	39.77	39.72	39.99	40.58	43.56	43.19	45.25	45.38	45.17
10	40.30	40.25	39.96	39.73	39.72	40.26	43.22	43.41	42.95	45.27	45.27	45.33
15	40.26	40.19	39.93	39.76	39.75	40.25	44.03	43.23	42.77	45.33	45.21	45.48
20	40.17	40.14	39.86	39.76	39.99	40.29	43.99	43.03	43.73	45.37	45.14	45.40
25	40.23	40.08	39.83	39.76	39.96	40.36	43.87	42.96	44.67	45.44	45.09	45.36
EOM	40.20	40.07	39.81	39.73	39.97	40.57	43.71	43.09	45.18	45.42	45.20	45.42
MAX	40.41	40.30	40.03	39.79	39.99	40.57	44.03	43.68	45.18	45.46	45.44	45.50
WTR YR 1982	MEAN	42.17	MAX	45.50	SEP 13	MIN	39.70	JAN 28	AND OTHERS			

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

MARION COUNTY

WELL NUMBER.--291740081562001. Local Number CE-54. USGS Observation Well CE 54 near Ocala, FL.

LOCATION.--Lat 29°17'40", long 81°56'20", in SW¼SW¼SW¼ sec.6, T.14 S., R.24 E., Hydrologic Unit 03080102, on east side of Gores Landing Road, 1.0 mi (1.6 km) west of Oklawaha River at Gores Landing, 5.0 mi (8.0 km) south of Fort McCoy, and 14.3 mi (23.0 km) northeast of Ocala.

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

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 6 in (15 cm), depth 280 ft (85 m), cased to 258 ft (79 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of casing, 3.00 ft (0.91 m) above land-surface datum.

DATUM.--Land-surface datum is 50.59 ft (15.42 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--May 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, 50.45 ft (15.38 m) NGVD, Apr. 19, 1970; lowest, 43.81 ft (13.35 m) NGVD, Jan. 11, 1982.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	44.32	44.28	44.04	43.84	43.99	44.14	44.88	46.85	47.16	48.67	49.42	49.39
10	44.27	44.32	44.09	43.89	44.05	44.23	45.30	46.87	47.06	48.83	49.36	49.61
15	44.22	44.33	44.11	43.89	44.00	44.41	45.98	46.79	47.13	48.93	49.43	49.76
20	44.04	44.33	43.82	43.97	44.13	44.47	46.44	46.78	47.52	49.16	49.34	49.73
25	44.20	44.21	43.94	44.07	44.04	44.55	46.78	46.82	48.04	49.16	49.41	49.88
EOM	44.06	44.20	43.97	44.08	44.06	44.63	46.82	47.01	48.46	49.29	49.32	49.95
MAX	44.54	44.38	44.21	44.18	44.24	44.63	46.84	47.01	48.46	49.29	49.48	49.99
WTR YR 1982	MEAN	46.09	MAX	49.99	SEP 26	MIN	43.81	JAN 11				

WELL NUMBER.--292015082065001. Local Number Marion 920-206-312. USGS Observation Well CE 66 at Sparr, FL.

LOCATION.--Lat 29°20'15", long 82°06'50", in SW¼SW¼SE¼ sec.21, T.13 S., R.22 E., Hydrologic Unit 03080102, in lumber yard at northeast corner of intersection of Alternate U.S. Highway 301 and Main Street at Sparr.

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

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 3 in (8 cm), depth 62 ft (19 m), cased to 50 ft (15 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.

DATUM.--Land-surface datum is 93.64 ft (28.54 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--March 1961 (annually); July 1964 to May 1966 (bimonthly); July 1966 to September 1967 (monthly); November 1967 to current year (bimonthly). 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, 55.13 ft (16.80 m) NGVD, Sept. 16, 1964; lowest measured, 43.47 ft (13.25 m) NGVD, Nov. 17, 1977.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
13...	1540	44.94	10...	1430	50.65
DEC			JUL		
01...	0820	44.56	15...	0830	52.67
JAN			SEP		
29...	0830	44.47	09...	1530	53.23
MAR					
26...	0800	45.07			

MARION COUNTY

WELL NUMBER.--292200081510001. Local Number CE-84. USGS Observation Well CE 84 near Salt Springs, FL.

LOCATION.--Lat 29°22'00", long 81°51'00", in NW¼NW¼NE¼ sec.13, T.13 S., R.24 E., Hydrologic Unit 03080101, on north side of State Highway 316, 2.0 mi (3.2 km) east of Oklawaha River at Eureka, 7.5 mi (12.1 km) west of Salt Springs, and 8.0 mi (12.9 km) east of Fort McCoy.

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

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 6 in (15 cm), depth 90 ft (27 m), cased to 53 ft (16 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of casing, 3.00 ft (0.91 m) above land-surface datum.

DATUM.--Land-surface datum is 91.72 ft (27.96 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--July 1970 to September 1977; October 1977 to current year (bimonthly). 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, 30.92 ft (9.42 m) NGVD, Nov. 28, 1979; lowest measured, 22.50 ft (6.86 m) NGVD, Aug. 11, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT 20...	1350	22.73	JUN 07...	1230	26.19
DEC 14...	1350	22.69	AUG 10...	1320	28.34
FEB 08...	1315	22.55	SEP 14...	1500	29.10
MAR 30...	1205	22.77	28...	0840	29.28
MAY 11...	1040	24.90			

WELL NUMBER.--292546081513301. Local Number Marion 925-151-124. USGS Observation Well CE 67 near Salt Springs, FL.

LOCATION.--Lat 29°25'46", long 81°51'33", in NE¼SE¼SE¼ sec.23, T.12 S., R.24 E., Hydrologic Unit 03080102, on northwest corner of Forest Roads 75 and 97 in the Ocala National Forest, 7.8 mi (12.6 km) northeast of Fort McCoy, and 9.2 mi (14.8 km) northwest of Salt Springs.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in (15 cm), depth 340 ft (104 m), cased to 307 ft (94 m).

INSTRUMENTATION.--Tape measured. Measuring point: Hole in cap, 2.20 ft (0.67 m) above land-surface datum.

DATUM.--Land-surface datum is 137.84 ft (42.01 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--September 1964 to November 1967 (monthly); January 1968 to current year (bimonthly). 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, 24.60 ft (7.50 m) NGVD, Oct. 29, 1965; lowest measured, 17.34 ft (5.29 m) NGVD, July 1, 1968.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT 20...	1420	17.99	JUN 07...	1248	21.06
DEC 14...	1410	17.74	AUG 10...	1345	22.60
FEB 08...	1330	18.12	SEP 14...	1515	22.97
MAR 30...	1225	18.70	29...	0910	23.09
MAY 11...	1015	20.28			

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1981 TO SEPTEMBER 1982

MARION COUNTY

STATION NUMBER	STATION NAME	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF MEASURE- MENT	ELEV- ATION ABOVE NGVD (FEET)
290130082082001	90120801 USGS OB WELL CE35 NR PEDRO FL	29 01 30	082 08 20	01	82-04-22 82-05-10 82-09-08	47.88 48.29 52.68
290220081562001	90215601USGS OBSER WELL CE 42 AT OKLAWAHA,FL	29 02 20	081 56 20	01	82-02-01 82-03-24 82-05-11 82-09-14	43.95 45.66 47.90 53.04
290400082091001	90420901 USGS OB WELL CE33 NR OCALA FL	29 04 00	082 09 10	01	82-04-22 82-05-10 82-09-08	46.43 47.20 50.22
290552082044701	90520401 USGS WELL CE81 WOLF SINK NR SANTOS, FL	29 05 52	082 04 47	01	82-04-23 82-05-14 82-09-08 82-09-13	46.92 46.72 50.31 50.37
290820082032001	90820301 USGS OB WELL CE39 NR OCALA FL	29 08 20	082 03 20	01	82-04-22 82-09-08	46.07 48.41
290953082031301	90920301 USGS OB WELL CE79 NR SILVER SPRINGS, FL	29 09 53	082 03 13	01	82-04-22 82-05-10 82-09-08	45.67 45.23 47.44
291015081385001	91013801 15S26E DOT 49	29 10 15	081 38 50	01	82-05-11 82-09-14	37.90 39.55
291140082052701	91120501 USGS OB WELL CE80 AT OCALA FL	29 11 40	082 05 27	01	82-04-22 82-05-10 82-09-08	43.93 43.40 45.27
291240082034001	91220301 15S22E01 SCE124	29 12 40	082 03 40	01	82-05-10 82-09-13	42.72 44.63
291310082045001	91320401 USGS OB WELL CE45 AT SILVER SPRINGS, FL	29 13 10	082 04 50	01	82-04-22 82-05-10 82-09-08	45.11 44.35 46.08
291600081550001	91615501 USGS OB WELL CE55 NR SALT SPRINGS, FL	29 16 00	081 55 00	01	82-04-22 82-05-11 82-09-08	45.34 45.75 48.43
291728081390501	91713901 14S26E12 UNKNOWN	29 17 28	081 39 05	01	82-05-14 82-09-14	13.18 14.38
291738082115301	91721102 14S21E10 CE 30A	29 17 38	082 11 53	01	82-05-10 82-09-13	47.10 50.15
291750081494001	917149 14S25E06 C E 56	29 17 50	081 49 40	01	82-05-11 82-09-14	32.29 35.98
291849081411401	S NANDEZ TRIANG ST NR SALT SPGS	29 18 49	081 41 14	01	82-09-14	10.58
292100081435001	921143 13S26E19 SCE 34	29 21 00	081 43 50	01	82-05-11 82-09-14	5.79 7.27
292205082022901	922202-- 13S23E18 FT MCCOY FIRE TOWER	29 22 05	082 02 29	01	82-05-10 82-09-14	53.02 56.36

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

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MARION COUNTY

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS) (90095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL) (00940)	NITRO- GEN, NITRATE TOTAL (MG/L) AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L) AS N) (00615)
290130082082001 - 90120801 USGS OB WELL CE35 NR PEDRO FL (LAT 29 01 30 LONG 082 08 20)										
APR , 1982										
22...	1425	200	198	8.0	23.5	13	K0	3.7	1.0	.000
SEP										
08...	1255	194	190	7.7	23.5	123	K300	3.4	1.1	.000
290400082091001 - 90420901 USGS OB WELL CE33 NR Ocala FL (LAT 29 04 00 LONG 082 09 10)										
APR , 1982										
22...	1340	410	399	7.4	23.5	.70	400	5.8	.74	.000
SEP										
08...	1230	352	340	7.6	23.5	.80	K3200	6.4	.88	.000
290552082044701 - 90520401 USGS WELL CE81 WOLF SINK NR SANTOS, FL (LAT 29 05 52 LONG 082 04 47)										
APR , 1982										
23...	0850	470	469	7.3	22.0	.30	K20	9.4	1.3	.000
SEP										
08...	1115	380	367	7.3	24.5	3.8	K1900	7.5	.07	.000
290820082032001 - 90820301 USGS OB WELL CE39 NR Ocala FL (LAT 29 08 20 LONG 082 03 20)										
APR , 1982										
22...	1300	230	294	7.9	24.0	2.0	<1	6.0	.96	.000
SEP										
08...	1100	290	280	7.8	23.5	3.8	K1400	5.0	1.0	.000
290953082031301 - 90920301 USGS OB WELL CE79 NR SILVER SPRINGS, FL (LAT 29 09 53 LONG 082 03 13)										
APR , 1982										
22...	1230	225	208	8.0	24.0	3.0	K0	4.7	.44	.000
SEP										
08...	1020	215	195	8.3	23.5	5.7	K2900	4.2	.47	.000
291140082052701 - 91120501 USGS OB WELL CE80 AT Ocala FL (LAT 29 11 40 LONG 082 05 27)										
APR , 1982										
22...	1100	310	305	7.6	25.0	28	K0	4.2	.14	.000
SEP										
08...	0830	330	310	6.9	24.0	122	K3300	3.4	.18	.000
291310082045001 - 91320401 USGS OB WELL CE45 AT SILVER SPRINGS, FL (LAT 29 13 10 LONG 082 04 50)										
APR , 1982										
22...	1140	345	335	7.5	22.0	132	K0	11	.62	.000
SEP										
08...	0850	370	347	7.2	24.5	155	K1600	6.3	.58	.000
291600081550001 - 91615501 USGS OB WELL CE55 NR SALT SPRINGS, FL (LAT 29 16 00 LONG 081 55 00)										
APR , 1982										
22...	1015	370	355	7.9	22.0	1.5	K0	18	.00	.000
SEP										
08...	0930	370	347	7.8	22.5	1.5	K3300	17	.00	.000

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

MARION COUNTY--Continued

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	NITRO- GEN, TOTAL (MG/L AS NO3) (71887)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
290130082082001 - 90120801 USGS OB WELL CE35 NR PEDRO FL (LAT 29 01 30 LONG 082 08 20)									
APR , 1982									
22...	1.0	.010	.05	.06	1.0	4.6	.140	.140	1.0
SEP									
08...	1.1	.020	.31	.33	1.4	6.3	.460	.030	.0
290400082091001 - 90420901 USGS OB WELL CE33 NR OCALA FL (LAT 29 04 00 LONG 082 09 10)									
APR , 1982									
22...	.74	.010	.24	.25	.99	4.3	.030	.030	1.1
SEP									
08...	.88	.070	.04	.11	.99	4.3	.040	.040	.0
290552082044701 - 90520401 USGS WELL CE81 WOLF SINK NR SANTOS, FL (LAT 29 05 52 LONG 082 04 47)									
APR , 1982									
23...	1.3	.010	.31	.32	1.6	7.1	.020	.020	1.2
SEP									
08...	.07	.050	.18	.23	.30	1.3	.290	.260	4.7
290820082032001 - 90820301 USGS OB WELL CE39 NR OCALA FL (LAT 29 08 20 LONG 082 03 20)									
APR , 1982									
22...	.96	.010	.18	.19	1.1	5.0	.050	.040	.7
SEP									
08...	1.0	.020	.02	.04	1.0	4.6	.100	.070	1.2
290953082031301 - 90920301 USGS OB WELL CE79 NR SILVER SPRINGS, FL (LAT 29 09 53 LONG 082 03 13)									
APR , 1982									
22...	.44	.010	.03	.04	.48	2.1	.040	.020	.3
SEP									
08...	.47	.010	.06	.07	.54	2.3	.020	.020	9.0
291140082052701 - 91120501 USGS OB WELL CE80 AT OCALA FL (LAT 29 11 40 LONG 082 05 27)									
APR , 1982									
22...	.14	.000	.00	.00	.14	.62	.780	.040	.7
SEP									
08...	.18	.030	.01	.04	.22	.97	.920	.040	.0
291310082045001 - 91320401 USGS OB WELL CE45 AT SILVER SPRINGS, FL (LAT 29 13 10 LONG 082 04 50)									
APR , 1982									
22...	.62	.010	.20	.21	.83	3.6	--	1.50	1.5
SEP									
08...	.58	.030	.03	.06	.64	2.8	.500	.450	.6
291600081550001 - 91615501 USGS OB WELL CE55 NR SALT SPRINGS, FL (LAT 29 16 00 LONG 081 55 00)									
APR , 1982									
22...	.00	.040	.04	.08	.08	.35	.020	.010	.5
SEP									
08...	.00	.090	.06	.15	.15	.66	.050	.030	.3

KEY TO SITE LOCATIONS ON FIGURE 17
NASSAU COUNTY

Index number	Site number	Page number
1	303244081263701	115
2	303340081500001	115
3	303403081311301	*
4	303435081271401	116
5	303457081271501	116
6	303519081275301	117
7	303658081422601	*
8	303722081295401	117
9	303754081362701	118
10	303805081273901	*
11	303808081261401	118
12	303820081261501	*
13	303836081274201	*
14	303939081312601	*
15	304002081381201	119
16	304010081264501	*
17	304022081275001	119
18	304213081270801	*
19	304317081372301	*

*Well discontinued September 30, 1981. Water levels are published in the section of this report entitled MISCELLANEOUS WATER LEVEL MEASUREMENTS.

WATER RESOURCES DATA FOR FLORIDA, 1982
Volume 1B: Northeast Florida

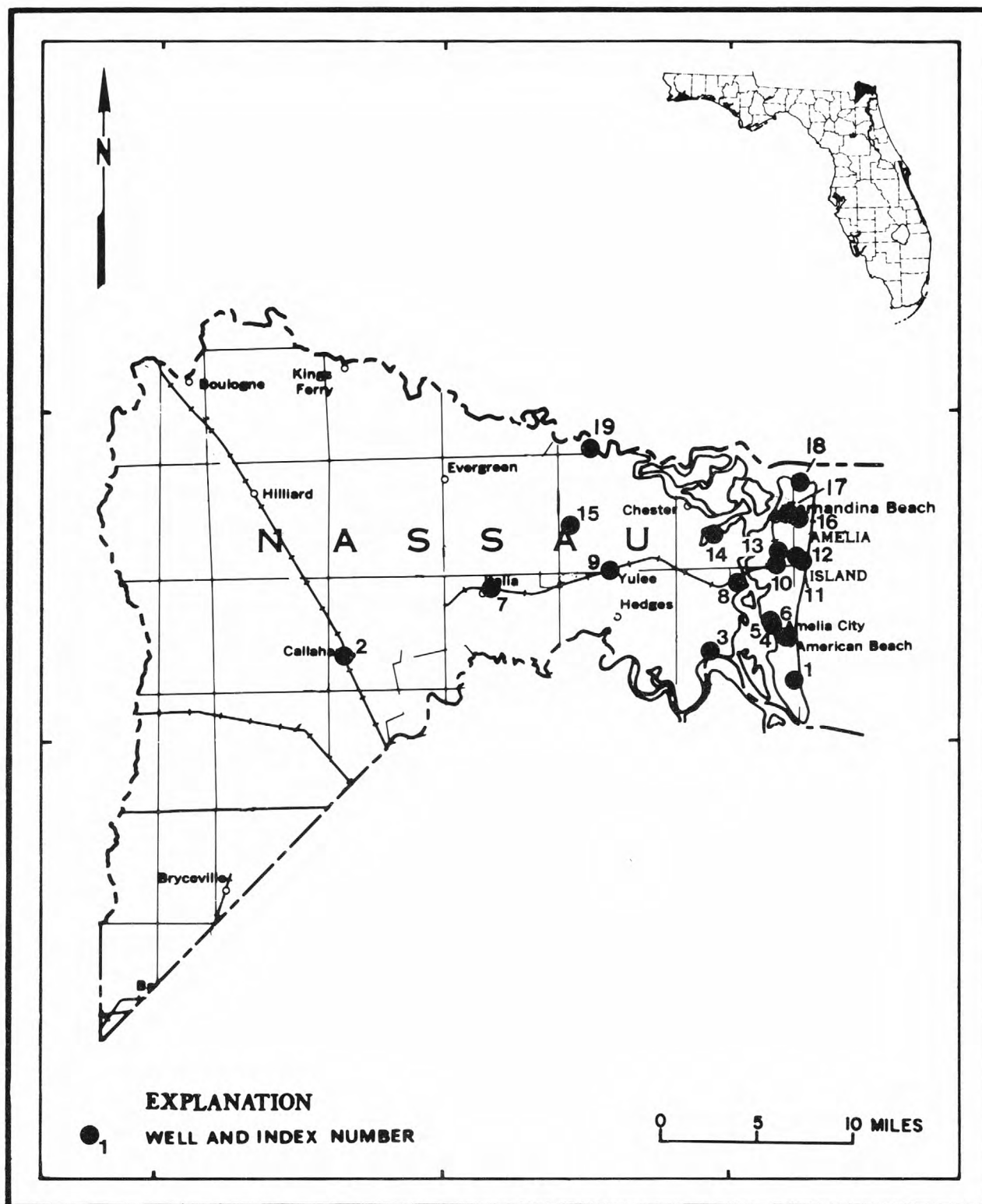


FIGURE 17. LOCATION OF WELLS IN NASSAU COUNTY.

NASSAU COUNTY

WELL NUMBER.--303244081263701. Local Number N-8. Union Carbide Ore Co. Observation Well near Amelia City, FL.

LOCATION.--Lat 30°32'44", long 81°26'37", in NE¼NE¼NE¼, sec.1, T.1 N., R.28 E., Hydrologic Unit 03070205, on property of Amelia Island Plantation, 0.1 mi (0.2 km) east of State Highway 1A, and 3.9 mi (6.3 km) south of Amelia City.

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

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 4 in (10 cm), depth 680 ft (207 m).

INSTRUMENTATION.--Pressure gage. Measuring point: Top of 4 in (10 cm) casing cap, 2.00 ft (0.61 m) above land-surface datum.

DATUM.--Land-surface datum is 13.70 ft (4.18 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--March 1939 to November 1940, June 1944 to May 1978 (semiannually), February 1979 to current year (bimonthly). Records of water levels prior to 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 56.80 ft (17.31 m) NGVD, July 15, 1947; lowest measured, 21.30 ft (6.49 m) NGVD, Dec. 10, 1979.

ELEVATION, IN FEET, NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 03...	1230	26.90	APR 28...	1210	28.50
DEC 01...	1130	27.30	MAY 11...	1100	25.50
JAN 04...	1400	28.50	JUL 26...	1150	28.50
FEB 01...	1505	27.90	AUG 30...	1040	26.70
MAR 31...	1245	26.90	SEP 14...	1505	28.00

WELL NUMBER.--303340081500001. Local Number N-51. Ellis Howard Well at Callahan, FL.

LOCATION.--Lat 30°33'40", long 81°50'00", in SW¼NW¼, sec.29, T.2 N., R.25 E., Hydrologic Unit 03070205, 200 ft (61 m) from northeast corner of intersection of Green Avenue and Mickler Street in Callahan.

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

WELL CHARACTERISTICS.--Drilled, domestic, artesian well, diameter 2 in (5 cm), depth 580 ft (177 m).

INSTRUMENTATION.--Pressure gage. Measuring point: Top of 2 in (5 cm) cross, 1.00 ft (0.30 m) above land-surface datum.

DATUM.--Land-surface datum is 18.78 ft (5.72 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--January 1940 to April 1942, January 1944 to September 1978 (semiannually), February 1979 to current year (bimonthly). Records of water levels prior to 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 61.28 ft (18.68 m) NGVD, July 15, 1947; lowest measured, 35.28 ft (10.75 m) NGVD, Oct. 8, 1980.

ELEVATION, IN FEET, NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 13...	1410	37.78	MAY 10...	1230	39.58
JAN 05...	1125	37.98	JUN 15...	1300	38.78
FEB 25...	1320	38.18	JUL 26...	1400	39.78
APR 28...	1510	38.48	SEP 15...	1125	40.58

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

NASSAU COUNTY

WELL NUMBER.--303435081271401. Local Number N-46. Amelia Island Corp. Well at Amelia City, FL.

LOCATION.--Lat 30°34'35", long 81°27'14", in land grant 14, T.2 N., R.28 E., Hydrologic Unit 03070205 at Amelia Island waterworks, 1.1 mi (1.8 km) south of intersection of State Highways 1A and 105A, 200 ft (61 m) east of water storage tanks at Amelia City.

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

WELL CHARACTERISTICS.--Drilled, commercial, artesian well, diameter 12 in (30 cm), depth 1,016 ft (310 m).

INSTRUMENTATION.--Pressure gage. Measuring point: Top of lowest 14 in (36 cm) flange, 1.10 ft (0.34 m) above land-surface datum.

DATUM.--Altitude of land-surface datum is 15 ft (4.6 m), from topographic map.

PERIOD OF RECORD.--April to December 1975, May 1977, May 1978, April 1979 to current year (bimonthly). Records of water levels prior to 1979 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.80 ft (5.73 m) above land-surface datum, Dec. 28, 1975; lowest measured, 9.10 ft (2.77 m) above land-surface datum, July 30, 1981.

WATER LEVEL, IN FEET, BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)
NOV 13...	1115	-13.50	MAY 11...	1645	-12.60
JAN 04...	1345	-16.10	JUN 15...	1030	-10.70
FEB 25...	1050	-14.60	JUL 26...	1140	-18.30
APR 28...	1220	-16.30	SEP 14...	1500	-15.30

WELL NUMBER.--303457081271501. Local Number N-9. George Morse Well at Amelia City, FL.

LOCATION.--Lat 30°34'57", long 81°27'15", in land grant 15, T.2 N., R.28 E., Hydrologic Unit 03070205, 100 ft (30 m) east of State Highway 1A, and 0.8 mi (1.3 km) south of Amelia City.

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

WELL CHARACTERISTICS.--Drilled, domestic, artesian well, diameter 3 in (8 cm), depth 586 ft (179 m).

INSTRUMENTATION.--Pressure gage. Measuring point: Top of 3 in (8 cm) tee, 1.50 ft (0.46 m) above land-surface datum.

DATUM.--Land-surface datum is 18.37 ft (5.60 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--March 1939, September 1955, May 1977, April 1979 to current year (bimonthly). Records of water levels prior to 1977 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 56.57 ft (17.24 m) NGVD, Mar. 24, 1939; lowest measured, 21.77 ft (6.64 m) NGVD, June 29, 1981.

ELEVATION, IN FEET, NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 03...	1220	27.57	MAY 11...	1640	27.67
JAN 04...	1400	29.97	JUN 28...	1115	26.07
FEB 24...	1055	27.77	JUL 26...	1200	31.67
MAR 31...	1257	27.37	AUG 30...	1100	28.07
APR 28...	1225	30.47	SEP 14...	1455	31.07

NASSAU COUNTY

WELL NUMBER.--303519081275301. Local Number N-2. G.G. Gerbing Observation Well at Amelia City, FL.

LOCATION.--Lat 30°35'19", long 81°27'53", in land grant 12, T.2 N., R.28 E., Hydrologic Unit 03070205, at residence, 0.45 mi (0.72 km) west of intersection of State Highways 1A and 105A in Amelia City.

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

WELL CHARACTERISTICS.--Drilled, domestic and irrigation, artesian well, diameter 2 in (5 cm), depth 580 ft (177 m).

INSTRUMENTATION.--Pressure gage. Measuring point: Top of faucet, 1.00 ft (0.30 m) above land-surface datum.

DATUM.--Land-surface datum is 9.98 ft (3.04 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--March 1939 to November 1940, January 1969, May 1972 to May 1978, April 1979 to current year (bimonthly). Records of water levels prior to 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 53.08 ft (16.18 m) NGVD, July 15, 1947; lowest measured, 9.86 ft (3.01 m) NGVD, June 29, 1981.

ELEVATION, IN FEET, NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV			MAY		
03...	1215	11.76	11...	1630	12.18
DEC			JUN		
01...	1115	11.88	28...	1125	11.18
JAN			JUL		
04...	1415	13.38	26...	1130	13.88
FEB			AUG		
25...	1015	13.08	30...	1110	12.18
MAR			SEP		
31...	1310	11.83	14...	1450	13.18
APR					
28...	1230	13.93			

WELL NUMBER.--303722081295401. Local Number N-54. Domestic Observation Well near O'Neil, FL.

LOCATION.--Lat 30°37'22", long 81°29'54", in land grant 37, T.2 N., R.28 E., Hydrologic Unit 03070205, at entrance to Piney Island, 300 ft (91 m) north of Seaboard Coastline Railroad tracks, 600 ft (183 m) north of State Highway 1A, and 1.1 mi (1.8 km) northeast of O'Neil.

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

WELL CHARACTERISTICS.--Drilled, artesian well, diameter unknown, depth 482 ft (147 m).

INSTRUMENTATION.--Tape measured or pressure gage. Measuring point: Top of concrete base, 2.00 ft (0.61 m) above land-surface datum.

DATUM.--Altitude of land-surface datum is 5.0 ft (1.5 m), from topographic map.

PERIOD OF RECORD.--April to December 1975, May 1977, May 1978, April 1979 to current year (bimonthly). Records of water levels prior to 1977 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.80 ft (3.90 m) above land-surface datum, Apr. 28, 1982; lowest measured, 1.23 ft (0.37 m) below land-surface datum, June 20, 1979 (corrected).

WATER LEVEL, IN FEET, BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)
NOV			MAY		
13...	1000	-1.63	11...	1520	-4.50
JAN			JUN		
04...	1200	-6.80	15...	1200	-0.60
FEB			JUL		
25...	1030	-2.42	26...	1115	-12.00
APR			SEP		
28...	1320	-12.80	14...	1300	-9.50

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

NASSAU COUNTY

WELL NUMBER.--303754081362701. Local Number N-44. Seaboard Airline R.R. Well at Yulee, FL.

LOCATION.--Lat 30°37'54", long 81°36'27", in land grant 50, T.3 N., R.27 E., Hydrologic Unit 03070205, 75 ft (23 m) west of Seaboard Airline Railroad tracks and 450 ft (137 m) north of State Highway 200 in Yulee.

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

WELL CHARACTERISTICS.--Drilled, domestic, artesian well, diameter 4 in (10 cm), depth 1,000 ft (305 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of 5 in (13 cm) casing, 2.22 ft (0.68 m) above land-surface datum.

DATUM.--Land-surface datum is 34.81 ft (10.61 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--March to December 1934, June to August 1938, January to March 1940, June 1944 to March 1964, May 1966 to September 1978 (semiannually), February 1979 to current year (bimonthly). Records of water levels prior to 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 57.31 ft (17.47 m) NGVD, Aug. 25, 1938; lowest measured, 25.55 ft (7.79 m) NGVD, July 30, 1981.

ELEVATION, IN FEET, NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 13...	0940	27.24	MAY 11...	1300	30.66
JAN 04...	1200	31.87	JUN 15...	1200	28.60
FEB 25...	0850	28.85	JUL 26...	1200	31.63
APR 28...	1150	30.81	SEP 14...	1130	30.71

WELL NUMBER.--303808081261401. Local Number N-112. Domestic Well at Fernandina Beach, FL.

LOCATION.--Lat 30°38'08", long 81°26'14", in land grant 12, T.3 N., R.29 E., Hydrologic Unit 03070205, at Hammond Apartments, 0.2 mi (0.3 km) south of intersection of Atlantic Boulevard and State Highway 1A1 in Fernandina Beach.

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

WELL CHARACTERISTICS.--Drilled, artesian, observation well, diameter 3 in (8 cm), depth unknown.

INSTRUMENTATION.--Tape measured. Measuring point: Top casing, 1.00 ft (0.30 m) above land-surface datum.

DATUM.--Altitude of land-surface datum is 15 ft (5.0 m), from topographic map.

PERIOD OF RECORD.--May 1969, December 1974 to December 1975 (monthly), May 1976 to September 1978 (annually), April 1979 to current year (bimonthly). Records of water levels prior to 1979 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.16 ft (0.05 m) below land-surface datum, Dec. 28, 1975; lowest measured, 33.79 ft (10.30 m) below land-surface datum, Dec. 23, 1974.

WATER LEVEL, IN FEET, BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)
NOV 13...	1140	24.60	MAY 11...	1610	22.20
JAN 04...	1330	16.27	JUN 15...	1045	24.31
FEB 25...	1000	22.58	JUL 26...	1215	8.20
APR 28...	1250	11.70	SEP 14...	1435	13.55

NASSAU COUNTY

WELL NUMBER.--304002081381201. Local Number N-53. Rayonier, Inc. Observation Well near Yulee, FL.

LOCATION.--Lat 30°40'18", long 81°38'28", in land grant 50, T.3 N., R.27 E., Hydrologic Unit 03070205, 50 ft (15 m) north of intersection of U.S. Highway 17 and Crandall Road, 0.3 mi (0.5 km) northwest of Yulee Fire Tower, and 3.0 mi (4.8 km) northwest of Yulee.

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

WELL CHARACTERISTICS.--Drilled, domestic, artesian well, diameter unknown, depth 500 ft (152 m).

INSTRUMENTATION.--Pressure gage. Measuring point: Top of 2 in (5 cm) valve, 1.00 ft (0.30 m) above land-surface datum.

DATUM.--Land-surface datum is 20.22 ft (6.16 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--February to November 1940, April to July 1944, September 1955, January 1960, May 1962, May 1964 to September 1978 (annually), April 1979 to current year (bimonthly). Records of water levels prior to 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 56.72 ft (17.29 m) NGVD, May 30, 1940; lowest measured, 25.52 ft (7.78 m) NGVD, July 30, 1981.

ELEVATION, IN FEET, NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 03...	1400	26.42	MAY 11...	1320	28.72
DEC 01...	1100	26.82	JUN 28...	1025	27.02
JAN 04...	1215	28.12	JUL 26...	1045	28.82
FEB 25...	0905	27.72	AUG 30...	1010	28.52
MAR 31...	1356	27.92	SEP 14...	1215	28.52
APR 28...	1430	28.82			

WELL NUMBER.--304022081275001. Local Number N-33. Chawick Observation Well at Fernandina Beach, FL.

LOCATION.--Lat 30°40'22", long 81°27'50", in land grant 21, T.3 N., R.28 E., Hydrologic Unit 03070204, at Church Seafood, 0.2 mi (0.3 km) north of Atlanta Boulevard, and 0.2 mi (0.3 km) west of First Street in Fernandina Beach.

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

WELL CHARACTERISTICS.--Drilled, private, unused, artesian well, diameter 3 in (8 cm), depth unknown.

INSTRUMENTATION.--Tape measured. Measuring point: Top of 3 in (8 cm) tee, 3.00 ft (0.91 m) above land-surface datum.

DATUM.--Land-surface datum is 5.87 ft (1.79 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--June 1939, September 1955, November 1959, January 1960 to May 1962, May 1964 to May 1978 (annually), April 1979 to current year (bimonthly). Records of water levels prior to 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 48.87 ft (14.90 m) NGVD, June 19, 1939; lowest measured, 48.95 ft (14.92 m) below NGVD, Oct. 22, 1975.

ELEVATION, IN FEET, NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 16...	1550	-24.18	MAY 11...	1545	-21.35
JAN 04...	1300	-22.96	JUN 15...	1100	-29.34
FEB 25...	0950	-24.90	JUL 26...	1300	-9.09
APR 28...	1300	-10.50	SEP 14...	1415	-14.58

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1981 TO SEPTEMBER 1982

NASSAU COUNTY

STATION NUMBER	STATION NAME	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF MEASURE- MENT	ELEV- ATION ABOVE NGVD (FEET)
302952081531701	N-114	30 29 52	081 53 17	01	82-05-10 82-09-15	44.68 45.45
303403081311301	N-100	30 34 03	081 31 13	01	82-05-11 82-09-14	28.80 30.80
303417081342201	N-118	30 34 17	081 34 22	01	82-09-15	33.00
303522081351401	N-57	30 35 22	081 35 14	01	82-05-11 82-09-15	30.00 29.00
303658081422601	N-50	30 36 58	081 42 26	01	82-05-10 82-09-15	35.79 37.19
303805081273901	N-106	30 38 05	081 27 39	01	82-05-11 82-09-14	-92.50 -92.50
303819081455701	N-98	30 38 19	081 45 57	01	82-05-10 82-09-15	37.90 38.60
303820081261501	N-16	30 38 20	081 26 15	01	82-05-11 82-09-14	-2.98 11.29
303836081274201	N-32	30 38 36	081 27 42	01	82-05-19 82-09-14	-2.46 1.18
303939081312601	N-20	30 39 39	081 31 26	01	82-05-11 82-09-14	4.48 8.02
304001081280301	N-117 RAYONIER TEST WELL	30 40 01	081 28 03	01	82-09-14	24.70
304010081264501	N-27	30 40 10	081 26 45	01	82-05-11 82-09-14	-4.08 -1.65
304028081272101	N-56 CCR-11	30 40 28	081 27 21	01	82-05-06 82-09-14	-39.10 -27.70
304055081272002	N-90	30 40 55	081 27 20	02	82-05-06 82-09-14	-68.00 -62.80
304109081265501	N-82	30 41 09	081 26 55	01	82-05-06 82-09-14	-68.80 -51.70
304150081470301	N-99	30 41 50	081 47 03	01	82-05-10 82-09-15	40.10 40.70
304205081542501	N-91	30 42 05	081 54 25	01	82-05-10 82-09-15	39.77 40.55
304213081270801	N-19	30 42 13	081 27 08	01	82-05-12 82-09-17	-12.34 -5.61
304317081372301	N-67	30 43 17	081 37 23	01	82-05-11 82-09-14	27.90 26.90

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

NASSAU COUNTY

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS) (90095)	PH (STAND- ARD UNITS) (00400)	PH LAB (STAND- ARD UNITS) (00403)	TEMPER- ATURE (DEG C) (00010)	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)
304001081280301 - N-117 RAYONIER TEST WELL (LAT 30 40 01 LONG 081 28 03)										
MAY , 1982										
21...	1120	29000	25800	6.8	7.5	30.5	850	550	5000	100

DATE	BICAR- BONATE FET-FLD (MG/L) AS HCO3) (00440)	CAR- BONATE FET-FLD (MG/L) AS CO3) (00445)	ALKA- LINITY FIELD (MG/L) AS CACO3) (00410)	ALKA- LINITY LAB (MG/L) AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L) AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L) AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	STRON- TIUM, DIS- SOLVED (UG/L) AS SR) (01080)
304001081280301 - N-117 RAYONIER TEST WELL (LAT 30 40 01 LONG 081 28 03)									
MAY , 1982									
21...	210	0	172	141	1800	9200	.6	19000	37000

WATER RESOURCES DATA FOR FLORIDA, 1982
Volume 1B: Northeast Florida

KEY TO SITE LOCATIONS ON FIGURE 18
OKEECHOBEE COUNTY

Index number	Site number	Page number
1	272932080482201	124

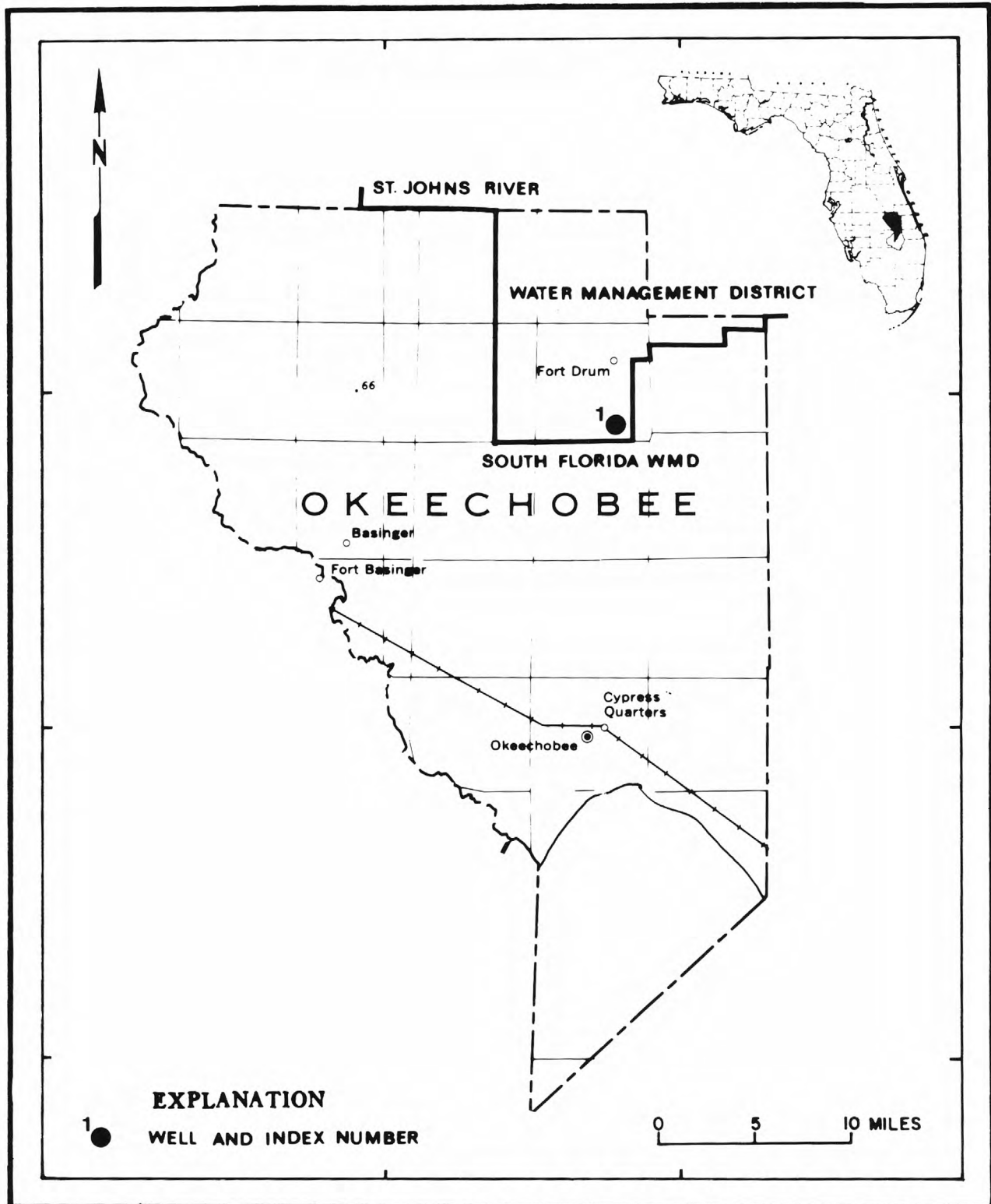


FIGURE 18. LOCATION OF WELLS IN OKEECHOBEE COUNTY.

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

OKEECHOBEE COUNTY

WELL NUMBER.--272932080482201. Local Number 729-048-01. USGS Observation Well OK-3 near Ft. Drum, FL.

LOCATION.--Lat 27°29'32", long 80°48'22", in NE¼NW¼NW¼ sec.26, T.34 S., R.35 E., Hydrologic Unit 03080101, on east side of U.S. Highway 441, 17.5 mi (28.2 km) north of State Highway 70 in Okeechobee, and 2.3 mi (3.7 km) south of Ft. Drum.

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

WELL CHARACTERISTICS.--Drilled, observation, nonartesian well, diameter 6 in (15 cm), depth 22 ft (7 m), cased to 19 ft (6 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of casing, 3.50 ft (1.07 m) above land-surface datum.

DATUM.--Land-surface datum is 61.80 ft (18.84 m) National Geodetic Vertical Datum of 1929.

COOPERATION.--Since Oct. 1, 1968, records furnished by South Florida Water Management District and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--September 1948 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 61.93 ft (18.88 m) NGVD, Oct. 15, 1956; lowest, 56.15 ft (17.11 m) NGVD, July 27,28, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	58.00	57.26	56.93	56.50	---	57.86	61.64	59.23	59.35	60.75	60.20	59.25
10	57.78	57.20	56.89	56.45	57.33	58.88	60.95	58.94	58.87	60.45	60.95	60.27
15	57.70	57.17	56.70	56.61	57.48	58.56	59.91	58.57	58.98	60.82	60.95	59.70
20	57.55	57.13	56.64	56.64	57.75	58.21	59.34	58.34	61.28	60.57	60.86	59.69
25	57.46	57.04	56.59	---	57.66	58.49	59.14	59.15	61.21	60.68	59.90	60.16
EOM	57.36	57.03	56.54	---	57.57	61.13	59.71	59.82	60.15	60.50	59.40	60.81
MAX	58.19	57.36	57.03	56.64	57.75	61.13	61.80	59.82	61.28	61.04	61.45	60.86
WTR YR 1982	MEAN	58.83	MAX	61.80	APR 8	MIN	56.41	JAN 12	AND OTHERS			

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1981 TO SEPTEMBER 1982

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OKEECHOBEE COUNTY

STATION NUMBER	STATION NAME	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF MEASURE- MENT	ELEV- ATION ABOVE NGVD (FEET)
273114080533601	73105301 34S34E14 TIGER CATTLE CO	27 31 14	080 53 36	01	82-05-11 82-09-15	39.82 41.08
273127080481401	73104801 34S35E11 MR NINE FORT DRUM	27 31 27	080 48 14	01	82-05-11 82-09-15	42.42 43.89
273502080535501	735053-- 33S34E23 FITE WELL 3 MI S OF OSCEOLA	27 35 02	080 53 55	01	82-05-12 82-09-15	38.63 38.38
273509080504201	73505001 33S35E20 COOK	27 35 09	080 50 42	01	82-05-13 82-09-15	37.21 42.56
273604080533501	736053-- 33S34E14 FITE WELL 2.5 MI S OF OSCEOL	27 36 04	080 53 35	01	82-05-12 82-09-15	38.47 40.20
273632080535601	736053-- 33S34E14 FITE WELL 2 MI S OF OSEOLA	27 36 32	080 53 56	01	82-05-12 82-09-15	38.51 39.56
273740080535101	737053-- 33S34E11 FITE WELL NR OSCEOLA CO LINE	27 37 40	080 53 51	01	82-05-12 82-09-15	37.97 39.59

WATER RESOURCES DATA FOR FLORIDA, 1982
Volume 1B: Northeast FloridaKEY TO SITE LOCATIONS ON FIGURE 19
ORANGE COUNTY

Index number	Site number	Page number
1	282341081040101	128
2	282510081054501	128
2	282510081054502	129
2	282510081054503	129
3	282531081054301	130
4	282532081075601	130
4	282533081082202	131
4	282533081082204	131
4	282533081082205	132
4	282533081082206	132
5	282739081054501	133
6	282847081013701	133
6	282847081013702	134
7	283249081053201	134
7	283249081053202	135
7	283249081053203	136
8	283253081283401	136
8	283253081283404	137
9	283333081233501	137
9	283333081233502	138

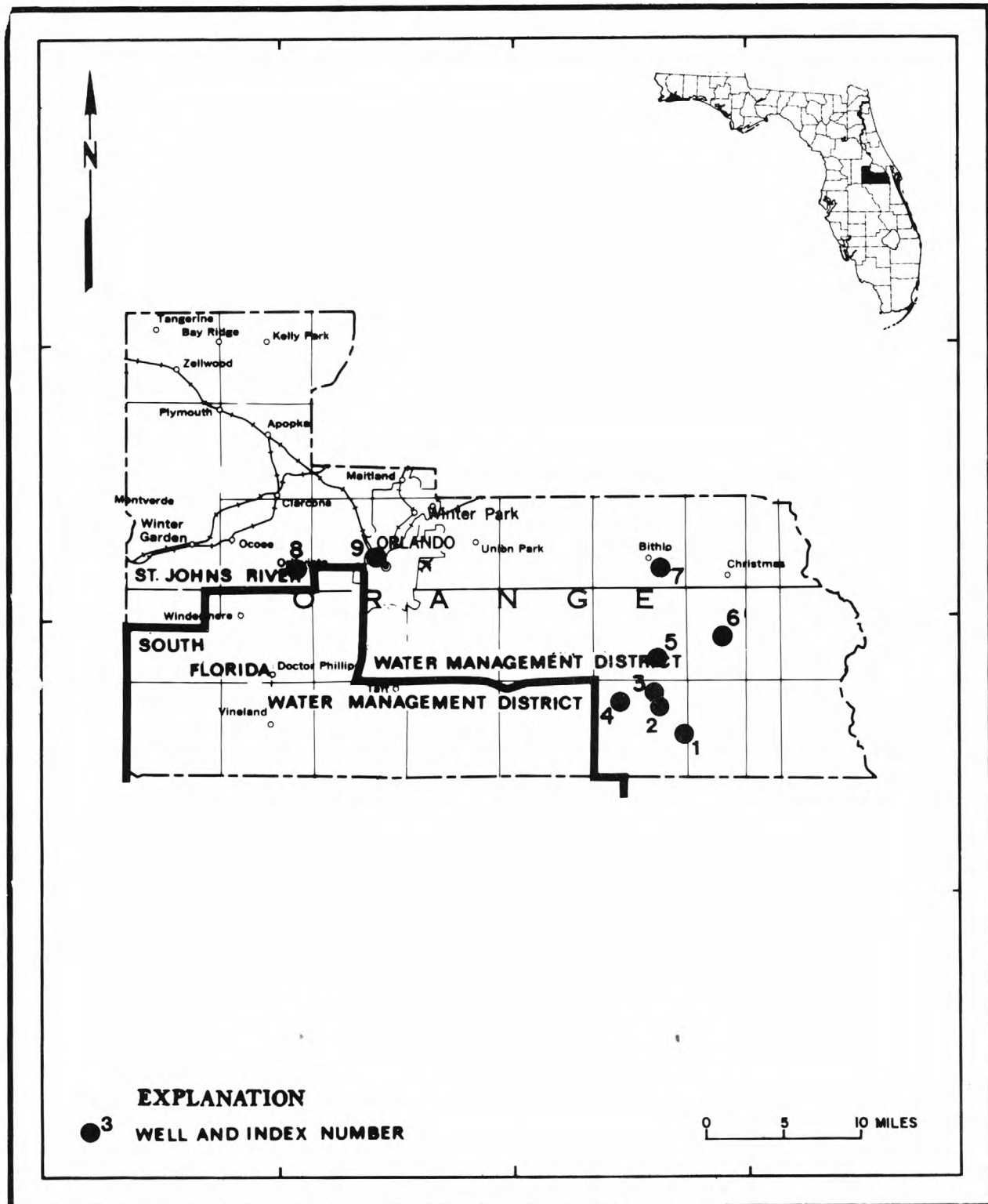


FIGURE 19. LOCATION OF WELLS IN ORANGE COUNTY.

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

ORANGE COUNTY

WELL NUMBER.--282341081040101. Local Number 823-104-01. USGS Observation Well Cocoa A near Bithlo, FL.

LOCATION.--Lat 28°23'41", long 81°04'01", in SE¼SW¼SE¼ sec.13, T.24 S., R.32 E., Hydrologic Unit 03080101, in Cocoa well field, 100 ft (30 m) west of Cocoa Water Plant Road, 7 mi (11 km) west of State Highway 520, and 11.3 mi (18.2 km) south of Bithlo.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 10 in (25 cm), depth 516 ft (157 m), cased to 301 ft (92 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of recorder shelf, 2.71 ft (0.83 m) above land-surface datum.

DATUM.--Land-surface datum is 75.06 ft (22.88 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--March 1960 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, 43.59 ft (13.29 m) NGVD, Sept. 30, Oct. 17, 1960; lowest, 30.55 ft (9.31 m) NGVD, May 19, 24, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	35.15	34.74	34.34	33.92	34.00	34.92	34.94	35.91	35.57	36.00	36.56	36.79
10	35.09	34.84	34.42	34.14	34.48	35.00	35.22	35.46	35.59	36.13	36.64	37.13
15	34.94	35.11	34.32	33.90	34.63	34.82	35.55	34.94	35.28	36.01	36.64	37.39
20	34.64	35.18	33.59	33.61	34.94	34.96	35.69	34.21	35.85	36.20	36.88	37.28
25	34.61	35.05	33.66	34.10	34.89	34.86	35.64	34.23	36.17	36.30	36.98	37.45
EOM	34.36	34.82	33.77	33.88	34.94	34.83	35.86	35.08	36.23	36.44	37.01	37.60
MAX	35.44	35.29	34.73	34.28	35.12	35.16	35.86	35.96	36.23	36.44	37.01	37.60
WTR YR 1982	MEAN	35.29	MAX	37.60	SEP 30	MIN	33.59	DEC 20				

WELL NUMBER.--282510081054501. Local Number 825-105-02. USGS Observation Well Cocoa 1 near Bithlo, FL.

LOCATION.--Lat 28°25'10", long 81°05'45", in SE¼NE¼NE¼ sec.10, T.24 S., R.32 E., Hydrologic Unit 03080101, in Cocoa well field, 300 ft (91 m) southwest of intersection of private road (abandoned FEC Railroad grade owned by Magnolia Ranch) and Wewahootee Road, and 9.1 mi (14.6 km) south of Bithlo.

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

WELL CHARACTERISTICS.--Drilled, abandoned public supply, artesian well, diameter 20 in (51 cm), depth 710 ft (216 m), cased to 316 ft (96 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of casing, 2.00 ft (0.61 m) above land-surface datum.

DATUM.--Land-surface datum is 70.33 ft (21.44 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--1966, 1967, 1969 (annually); January 1971 to current year (monthly). 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, 38.87 ft (11.85 m) NGVD, Oct. 26, 1966; lowest measured, 30.36 ft (9.25 m) NGVD, May 27, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
01...	1015	35.13	05...	0942	33.98
31...	1225	34.08	MAY		
DEC			04...	1312	35.65
01...	1039	34.41	JUN		
JAN...			07...	1330	35.38
04...	1223	33.70	29...	0838	36.26
FEB			JUL		
01...	0845	33.67	29...	1135	36.55
MAR			SEP		
02...	0902	34.48	03...	1135	36.74

ORANGE COUNTY

WELL NUMBER.--282510081054502. Local Number 825-105-06. USGS Observation Well Cocoa M near Bithlo, FL.

LOCATION.--Lat 28°25'10", long 81°05'45", in SE¼NE¼NE¼ sec.10, T.24 S., R. 32 E., Hydrologic Unit 03080101, in Cocoa well field, 300 ft (61 m) southwest of intersection of private road (abandoned FEC Railroad grade owned by Magnolia Ranch) and Wewahootee Road, and 9.1 mi (14.6 km) south of Bithlo.

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

WELL CHARACTERISTICS.--Drilled, observation, nonartesian well, diameter 6 in (15 cm), depth 10 ft (3 m), cased to 10 ft (3 m).

INSTRUMENTATION.--Tape measured. Measuring point: Bolt hole in cap, 3.15 ft (0.96 m) above land-surface datum.

DATUM.--Land-surface datum is 70.81 ft (21.58 m), National Geodetic Vertical Datum of 1929.

REMARKS.--The figures of water levels as elevation NGVD for the 1978 water year are in error. Revised records are available in files of the Geological Survey.

PERIOD OF RECORD.--February 1969 to January 1977; February 1977 to current year (monthly). 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, 69.94 ft (21.32 m) NGVD, Nov. 4, 1969; well observed dry August 1981 and July 1982.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
01...	1010	64.13	05...	0938	65.65
30...	1215	64.61	MAY		
DEC			04...	1304	67.10
01...	1042	64.23	JUN		
JAN			07...	1320	67.28
04...	1215	65.03	29...	0830	67.87
FEB			SEP		
01...	0840	65.29	03...	1455	66.32
MAR					
02...	0905	65.47			

WELL NUMBER.--282510081054503. Local Number 825-105-07. USGS Observation well Cocoa 1-T near Bithlo, FL.

LOCATION.--Lat 28°25'10", long 81°05'45", in SE¼NE¼NE¼ sec.10, T.24 S., R.32 E., Hydrologic Unit 03080101, in Cocoa well field, 300 ft (91 m) southwest of intersection of private road (abandoned FEC Railroad grade owned by Magnolia Ranch) and Wewahootee Road, and 9.1 mi (14.6 km) south of Bithlo.

AQUIFER.--Hawthorn sand and gravel aquifer of the Miocene Age, Geologic Unit 122 HTRNS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 12 in (30 cm), depth 200 ft (61 m), cased to 85 ft (26 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.

DATUM.--Land-surface datum is 71.19 ft (21.70 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--September 1969 to March 1970; January 1971 to current year (monthly). 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, 64.49 ft (19.66 m) NGVD, Sept. 29, 1979; lowest measured, 44.55 ft (13.58 m) NGVD, June 7, 1971.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
01...	1005	58.04	05...	0940	61.44
30...	1220	58.69	MAY		
DEC			04...	1310	63.29
01...	1036	61.88	JUN		
JAN			07...	1325	63.86
04...	1220	61.94	29...	0835	64.20
FEB			JUL		
01...	0845	62.16	29...	1130	58.47
MAR			SEP		
02...	0900	62.41	03...	1458	64.12

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

ORANGE COUNTY

WELL NUMBER.--282531081054301. Local Number 825-105-09. USGS Observation Well Cocoa O near Bithlo, FL.

LOCATION.--Lat 28°25'31", long 81°05'43", in NW¼SW¼SW¼ sec.2, T.24 S., R.32 E., Hydrologic Unit 03080101, in Cocoa well field, 225 ft (69 m) east of private road (abandoned FEC Railroad grade owned by Magnolia Ranch), 0.3 mi (0.5 km) north of Wewahootee Road, 1.6 mi (2.6 km) south of Beeline Expressway (State Highway 528), and 8.6 mi (13.8 km) south of Bithlo.

AQUIFER.--Hawthorn sand and gravel aquifer of the Miocene Age, Geologic Unit 122 HTRNS.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in (10 cm), depth 90 ft (25 m), cased to 70 ft (21 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of 4 in (10 cm) casing, 3.00 ft (0.91 m) above land-surface datum.

DATUM.--Land-surface datum is 68.60 ft (20.91 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--February 1970 to current year (monthly). 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, 67.15 ft (20.47 m) NGVD, June 28, 1982; lowest measured, 17.70 ft (5.40 m) NGVD, June 3, 1971.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
01...	1237	55.15	05...	0957	61.61
30...	1330	58.53	MAY		
DEC			04...	1330	63.40
01...	1059	61.95	JUN		
JAN			07...	1250	64.43
04...	1240	62.06	28...	1230	67.15
FEB			JUL		
01...	0850	62.19	29...	1202	30.08
MAR			SEP		
02...	0910	62.51	03...	0925	65.56

WELL NUMBER.--282532081075601. Local Number 825-107-04. USGS Observation Well Cocoa B near Bithlo, FL.

LOCATION.--Lat 28°25'32", long 81°07'56", in SW¼NE¼SE¼ sec.5, T.24 S., R.32 E., Hydrologic Unit 03080101, in Cocoa well field, 6 ft (2 m) south of Wewahootee Road, 7.1 mi (11.4 km) east of State Highway 15, and 10.1 mi (16.1 km) south of Bithlo.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in (10 cm), depth 515 ft (157 m), cased to 235 ft (72 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of casing, 3.70 ft (1.13 m) above land-surface datum.

DATUM.--Land-surface datum is 62.15 ft (18.94 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--January 1965 (annually); October 1965 to July 1968; August 1968 to current year (monthly). 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, 42.37 ft (12.91 m) NGVD, June 23, 1966; lowest measured, 21.42 ft (6.53 m) NGVD, Aug. 5, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
01...	0930	26.87	05...	0854	32.86
30...	1140	32.62	MAY		
DEC			04...	0720	27.99
01...	0720	32.37	JUN		
JAN			28...	1130	27.37
04...	0945	32.02	29...	1145	27.83
FEB			JUL		
01...	0905	32.32	29...	0730	35.40
MAR			SEP		
02...	0920	32.91	03...	1440	27.67

ORANGE COUNTY

WELL NUMBER.--282533081082202. Local Number 825-108-04. USGS Observation Well Cocoa C Zone 1 near Bithlo, FL.

LOCATION.--Lat 28°25'33", long 81°08'22", in SW¼NE¼SW¼ sec.5, T.24 S., R.32 E., Hydrologic Unit 03080101, in Cocoa well field, 10 ft (3 m) north of Wewahootee Road, 6.6 mi (10.6 km) east of State Highway 15, and 10 mi (16.1 km) south of Bithlo.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 1.25 in (3.18 cm), depth 1,357 ft (414 m), cased to 1,351 ft (412 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of 1.25 in (3.18 cm) coupling, 3.00 ft (0.91 m) above land-surface datum.

DATUM.--Land-surface datum is 63.71 ft (19.42 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--December 1965 (annually); February 1966 to current year (monthly). 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, 43.81 ft (13.35 m) NGVD, Dec. 6, 1965; lowest measured, 28.73 ft (8.76 m) NGVD, May 27, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
01..	0845	33.28	05...	0645	32.47
30...	1130	32.12	MAY		
DEC			04...	0650	33.58
01...	0700	32.70	JUN		
JAN			07...	1008	33.24
04...	0650	31.73	29...	0655	33.98
FEB			JUL		
01...	0730	31.82	29...	0700	34.31
MAR			SEP		
02...	0750	32.41	03...	0710	34.42

WELL NUMBER.--282533081082204. Local Number 825-108-06. USGS Observation Well Cocoa C Zone 3 near Bithlo, FL.

LOCATION.--Lat 28°25'33", long 81°08'22", in SW¼NE¼SW¼ sec.5, T.24 S., R.32 E., Hydrologic Unit 03080101, in Cocoa well field, 10 ft (3 m) north of Wewahootee Road, 6.6 mi (10.6 km) east of State Highway 15, and 10.0 mi (16.1 km) south of Bithlo.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 1.25 in (3.18 cm), depth 1,224 ft (373 m), cased to 1,218 ft (371 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of 1.25 in (3.18 cm) coupling 3.00 ft (0.91 m) above land-surface datum.

DATUM.--Land-surface datum is 63.77 ft (19.44 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--February 1966 to current year (monthly). 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, 42.27 ft (12.88 m) NGVD, Feb. 2, 1970; lowest measured, 33.47 ft (10.20 m) NGVD, Apr. 30, Oct. 1, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
01...	0848	33.47	05...	0646	36.72
30...	1135	36.44	MAY		
DEC			04...	0653	37.98
01...	0705	36.79	JUN		
JAN			07...	1012	38.70
04...	0708	36.12	29...	0658	38.50
FEB			JUL		
01...	0735	36.20	29...	0710	38.85
MAR			SEP		
02...	0752	36.89	03...	0705	39.18

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

ORANGE COUNTY

WELL NUMBER.--282533081082205. Local Number 825-108-07. USGS Observation Well Cocoa C Zone 4 near Bithlo, FL.

LOCATION.--Lat 28°25'33", long 81°08'22", in SW¼NE¼SW¼ sec.5, T.24 S., R.32 E., Hydrologic Unit 03080101, in Cocoa well field, 10 ft (3 m) north of Wewahootee Road, 6.6 mi (10.6 km) east of State Highway 15, and 10.0 mi (16.1 km) south of Bithlo.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 1.25 in (3.18 cm), depth 1,050 ft (320 m), cased to 1,044 ft (318 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of 1.25 in (3.18 cm) coupling, 3.00 ft (0.91 m) above land-surface datum.

DATUM.--Land-surface datum is 63.74 ft (19.43 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--February 1966 to current year (monthly). 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, 42.27 ft (12.88 m) NGVD, Oct. 31, 1969; lowest measured, 33.09 ft (10.09 m) NGVD, May 27, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
01...	0855	37.39	05...	0648	36.77
30...	1140	36.27	MAY		
DEC			04...	0655	37.84
01...	0708	36.75	JUN		
JAN			07...	1013	37.53
04...	0710	35.99	29...	0700	38.42
FEB			JUL		
01...	0735	36.08	29...	0713	38.76
MAR			SEP		
02...	0754	36.86	03...	0708	39.16

WELL NUMBER.--282533081082206. Local Number 825-108-08. USGS Observation Well Cocoa C Zone 5 near Bithlo, FL.

LOCATION.--Lat 28°25'33", long 81°08'22", in SW¼NE¼SW¼ sec.5, T.24 S., R.32 E., Hydrologic Unit 03080101, in Cocoa well field, 10 ft (3 m) north of Wewahootee Road, 6.6 mi (10.6 km) east of State Highway 15, and 10.0 mi (16.1 km) south of Bithlo.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in (20 cm), depth 1,004 ft (306 m), cased to 248 ft (76 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of 1.25 in (3.18 cm) sampling tube, 3.00 ft (0.91 m) above land-surface datum.

DATUM.--Land-surface datum is 63.72 ft (19.42 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--February 1966 to current year (monthly). 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, 42.18 ft (12.86 m) NGVD, Dec. 4, 1969; lowest measured, 26.83 ft (8.18 m) NGVD, May 27, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
01...	0900	32.97	05...	0647	32.04
30...	1142	32.49	MAY		
DEC			04...	0658	32.40
01...	0712	31.73	JUN		
JAN			07...	1120	31.92
04...	0715	30.90	29...	0705	32.55
FEB			JUL		
01...	0740	31.37	29...	0715	33.44
MAR			SEP		
02...	0752	31.89	03...	0711	35.71

ORANGE COUNTY

WELL NUMBER.--282739081054501. Local Number 827-105-02. USGS Observation Well Cocoa F near Bithlo, FL.

LOCATION.--Lat 28°27'39", long 81°05'45", in SE¼SE¼NE¼ sec.27, T.23 S., R.32 E., Hydrologic Unit 03080101, in Cocoa well field, 150 ft (46 m) west of Dallas Boulevard, 0.7 mi (1.1 km) north of Beeline Expressway (State Highway 528), and 6.3 mi (10.1 km) south of Bithlo.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in (15 cm), depth 375 ft (114 m), cased to 200 ft (61 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of 6 in (15 cm) coupling, 0.80 ft (0.24 m) above land-surface datum.

DATUM.--Land-surface datum is 67.29 ft (20.51 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--1960-70 (annually); October 1970 to current year (monthly). 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, 39.92 ft (12.17 m) NGVD, June 24, 1960; lowest measured, 30.15 ft (9.19 m) NGVD, May 27, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
01...	1117	37.01	04...	0845	35.25
31...	0930	33.70	JUN		
DEC			07...	1230	34.92
01...	0940	34.06	28...	1145	35.62
JAN			JUL		
04...	1030	33.43	28...	1140	36.21
FEB			SEP		
01...	0950	33.44	03...	0900	36.51
MAR			16...	1045	36.81
02...	1055	34.27			
APR					
05...	1007	35.45			

WELL NUMBER.--282847081013701. Local Number 828-101-01. USGS Observation Well Cocoa H near Bithlo, FL.

LOCATION.--Lat 28°28'47", long 81°01'37", in SW¼NW¼NW¼ sec.21, T.23 S., R.33 E., Hydrologic Unit 03080101, on west side of State Highway 520, 7.3 mi (11.7 km) southeast of Bithlo, and 5.4 mi (8.7 km) south of intersection with State Highway 50.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in (10 cm), depth 495 ft (151 m), cased to 252 ft (77 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of casing, 3.00 ft (0.91 m) above land-surface datum.

DATUM.--Land-surface datum is 60.00 ft (18.29 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--August 1968 to June 1977; July 1977 to current year (monthly). 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, 39.01 ft (11.89 m) NGVD, Feb. 25, 1970; lowest measured, 29.48 ft (8.99 m) May 13, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
01...	1010	33.82	04...	0835	34.47
31...	0945	33.42	JUN		
DEC			07...	1117	34.04
01...	0908	33.31	28...	1015	34.83
JAN			JUL		
04...	1150	32.59	07...	1117	34.09
FEB			29...	1015	35.33
01...	1045	32.66	SEP		
MAR			03...	0133	35.72
02...	1042	33.47	16...	1010	35.98
APR					
05...	1050	33.67			

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

ORANGE COUNTY

WELL NUMBER.--282847081013702. Local Number 828-101-02. USGS Observation Well Cocoa K near Bithlo, FL.

LOCATION.--Lat 28°28'47", long 81°01'37", in SW¼NW¼NW¼ sec.21, T.23 S., R.33 E., Hydrologic Unit 03080101, on west side of State Highway 520, 7.3 mi (11.7 km) southeast of Bithlo, and 5.4 mi (8.7 km) south of intersection with State Highway 50.

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

WELL CHARACTERISTICS.--Drilled, observation, nonartesian well, diameter 6 in (15 cm), depth 8 ft (2 m), cased to 8 ft (2 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of casing, 3.00 ft (0.91 m) above land-surface datum.

DATUM.--Land-surface datum is 60.00 ft (18.29 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--August 1968 to February 1977; March 1977 to current year (monthly). 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, 59.81 ft (18.23 m) NGVD, Oct. 3, 1969; lowest, 54.82 ft (16.71 m) NGVD, May 14, 1975.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
01...	1008	57.47	04...	0832	58.03
31...	0940	56.33	JUN		
DEC			07...	1116	59.32
01...	0910	57.07	28...	1020	58.94
JAN			JUL		
04...	1155	57.76	29...	1018	59.43
FEB			SEP		
01...	1045	57.70	03...	0832	59.16
MAR			16...	1005	59.39
02...	1040	57.23			
APR					
05...	1048	58.51			

WELL NUMBER.--283249081053201. Local Number 832-105-01. Bithlo 1 Well at Bithlo, FL.

LOCATION.--Lat 28°32'49", long 81°05'32", in NE¼NW¼SW¼ sec.26, T.22 S., R.32 E., Hydrologic Unit 03080101, on north side of State Highway 50, 0.8 mi (1.3 km) west of intersection of State Highways 50 and 520, and 1.0 mi (1.6 km) east of Bithlo.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in (15 cm), depth 492 ft (150 m), cased to 151 ft (46 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of casing, 3.00 ft (0.91 m) above land-surface datum.

DATUM.--Land-surface datum is 63.58 ft (19.38 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--October 1960 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, 42.98 ft (13.10 m) NGVD, Oct. 31, 1960; lowest, 30.48 ft (9.29 m) NGVD, May 23, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	34.67	34.38	34.01	33.69	33.84	34.50	34.75	35.49	35.28	36.00	36.57	36.72
10	34.57	34.57	34.03	33.82	34.11	34.57	34.95	35.32	35.24	36.07	36.40	36.97
15	34.25	34.78	33.95	33.62	34.25	34.66	35.21	34.79	35.19	35.97	36.63	37.16
20	34.05	34.79	33.47	33.62	34.58	34.59	35.31	34.17	35.68	36.21	36.64	37.02
25	34.01	34.56	33.40	33.86	34.49	34.41	35.39	34.23	35.88	36.35	36.79	37.19
EOM	33.99	34.32	33.74	33.86	34.49	34.43	35.45	34.82	36.03	36.53	36.79	37.35
MAX	34.95	34.84	34.33	34.03	34.78	34.71	35.48	35.56	36.04	36.53	36.79	37.35
WTR YR 1982	MEAN	35.03	MAX	37.35	SEP 30	MIN	33.35	DEC 24				

ORANGE COUNTY

WELL NUMBER.--283249081053202. Local Number 832-105-02. Bithlo 2 Well at Bithlo, FL.

LOCATION.--Lat 28°32'49", long 81°05'32", in NE¼NW¼SW¼ sec.26, T.22 S., R.32 E., Hydrologic Unit 03080101, on north side of State Highway 50, 0.8 mi (1.3 km) west of intersection with State Highway 520, and 1.0 mi (1.6 km) east of Bithlo.

AQUIFER.--Hawthorn limestone aquifer of the Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in (15 cm), depth 75 ft (23 m), cased to 65 ft (20 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of casing, 3.00 ft (0.91 m) above land-surface datum.

DATUM.--Land-surface datum is 63.49 ft (19.35 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1977, land-surface datum was considered to be 63.50 ft (19.35 m) National Geodetic Vertical Datum of 1929.

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

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 61.60 ft (18.78 m) NGVD, Jan. 26, 1971; lowest measured, 47.51 ft (14.48 m) NGVD, May 26, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
01...	1037	50.76	04...	0819	50.83
31...	0850	49.38	JUN		
DEC			07...	1152	50.70
01...	0803	50.78	28...	0953	50.81
JAN			JUL		
04...	1125	50.80	29...	0840	51.17
FEB			SEP		
01...	1015	50.58	03...	0820	51.01
MAR			16...	0930	51.06
02...	1015	50.54			
APR					
05...	1117	50.36			

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

ORANGE COUNTY

WELL NUMBER.--283249081053203. Local Number 832-105-03. Bithlo 3 Well at Bithlo, FL.

LOCATION.--Lat 28°32'49", long 81°05'32", in NE¼NW¼SW¼ sec.26, T.22 S., R.32 E., Hydrologic Unit 03080101, on north side of State Highway 50, 0.8 mi (1.3 km) west of intersection with State Highway 520, and 1.0 mi (1.6 km) east of Bithlo.

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

WELL CHARACTERISTICS.--Drilled, observation, nonartesian well, diameter 6 in (15 cm), depth 15 ft (5 m), cased to 12 ft (4 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of casing, 3.00 ft (0.91 m) above land-surface datum.

DATUM.--Land-surface datum is 63.14 ft (19.24 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1977, land-surface datum was considered to be 63.50 ft (19.35 m) National Geodetic Vertical Datum of 1929.

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

PERIOD OF RECORD.--September 1960 to current year (monthly). 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, 63.39 ft (19.32 m) NGVD, Nov. 15, 1979; lowest measured, 59.09 ft (18.01 m) NGVD, present datum, May 8, 1975.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
01...	1040	62.23	04...	0821	61.86
31...	0855	62.85	JUN		
DEC			07...	1155	62.61
01...	0805	61.77	28...	0945	63.07
JAN			JUL		
04...	1130	62.29	29...	0842	62.99
FEB			SEP		
01...	1006	61.87	03...	0815	61.54
MAR			16...	0955	62.43
02...	1017	61.95			
APR					
05...	1115	61.91			

WELL NUMBER.--283253081283401. Local Number 832-128-01. USGS Observation Well OR47 at Orlo Vista, FL.

LOCATION.--Lat 28°32'53", long 81°28'34", in SE¼NE¼NE¼ sec.26, T.22 S., R.28 E., Hydrologic Unit 03080101, on west side of Hiawassee Road, 0.6 mi (1.0 km) north of Old Winter Garden Road, and 0.15 mi (0.24 km) south of State Highway 50 in Orlo Vista.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in (15 cm), depth 350 ft (107 m), cased to 328 ft (100 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of casing, 3.13 ft (0.95 m), revised, above land-surface datum.

DATUM.--Land-surface datum is 81.71 ft (24.91 m), revised, National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--July 1930 to May 1933; August 1943 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, 80.78 ft (24.62 m) NGVD, Mar. 20, 1960; lowest, 49.80 ft (15.18 m) NGVD, June 19, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	53.19	53.39	52.77	53.24	53.49	53.28	53.91	55.83	56.55	58.43	59.24	60.45
10	52.74	53.44	52.69	53.29	53.55	54.02	55.22	55.38	55.96	58.36	59.21	61.63
15	52.57	53.43	52.63	53.55	53.67	53.62	55.56	54.46	55.92	58.12	59.70	61.03
20	52.33	53.24	52.43	53.56	53.72	53.24	55.27	53.91	58.25	58.61	60.44	60.39
25	52.19	53.02	52.37	53.60	53.53	53.31	55.39	54.72	58.46	59.39	60.11	60.78
BOM	52.63	52.82	53.17	53.47	53.36	54.25	55.91	56.29	58.26	59.26	60.13	61.25
MAX	53.60	53.55	53.17	53.62	53.84	54.25	55.91	56.29	58.56	59.43	60.44	61.67
WTR YR 1982	MEAN	55.48	MAX	61.67	SEP 9	MIN	52.05	OCT 24				

ORANGE COUNTY

WELL NUMBER.--283253081283404. Local Number 832-128-04. USGS Observation Well OR47B replacement at Orlo Vista, FL.

LOCATION.--28°32'53", 81°28'34", in SE¼NE¼NE¼ sec.26, T.22 S., R.28 E., Hydrologic Unit 03080101, on west side of Hiawasse Road, 0.6 mi (1.0 km) north of Old Winter Garden Road, and 0.15 mi (0.24 km) south of State Highway 50 in Orlo Vista.

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

WELL CHARACTERISTICS.--Drilled, unused, observation well, diameter 1.25 in (3.18 cm), depth 35 ft (11 m), cased to 33 ft (10 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of casing, 0.94 ft (0.29 m) above land-surface datum.

DATUM.--Land-surface datum is 81.77 ft (24.92 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Record is equivalent to that for OR47B (283253081283402), available September 1948 to September 1981.

PERIOD OF RECORD.--February 1982 to September 1982 (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 62.12 ft (18.93 m) NGVD, Sept. 30, 1982; lowest measured, 53.81 ft (16.40 m) Feb. 1, 1982.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
FEB			JUN		
01...	0830	53.81	09...	0830	58.73
MAR			09...	0830	58.47
01...	0810	53.88	JUL		
31...	0830	54.24	29...	0815	60.03
APR			AUG		
01...	0915	54.21	30...	1130	61.07
29...	0830	55.83	SEPT		
JUN			30...	0815	62.12
01...	0820	56.66			

WELL NUMBER.--283333081233501. Local Number 833-123-09. Lake Adair 9 Deep Well at Orlando, FL.

LOCATION.--Lat 28°33'33", long 81°23'35", in NW¼NW¼SW¼ sec.23, T.22 S., R.29 E., Hydrologic Unit 03080101, 25 ft (8 m) northeast of intersection of Westmoreland Drive and Lake Adair Boulevard in Orlando.

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

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 20 in (51 cm), depth 1,281 ft (390 m), cased to 601 ft (183 m).

INSTRUMENTATION.--Tape measured. Measuring point: Bolt hole in cap, 4.02 ft (1.23 m) above land-surface datum.

DATUM.--Land-surface datum is 80.40 ft (24.51 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--January 1961 (annually); November 1962 to August 1973; September 1973 to current year (bimonthly). 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, 60.23 ft (18.36 m) NGVD, Aug. 9, 1966; lowest measured, 42.70 ft (13.01 m) NGVD, May 11, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
30...	0835	46.89	10...	0756	47.11
JAN			JUN		
20...	1400	46.51	08...	0808	47.89
FEB			AUG		
22...	0700	46.83	01...	0700	50.37
APR			SEP		
12...	0730	49.99	13...	0915	53.61

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

ORANGE COUNTY

WELL NUMBER.--283333081233502. Local Number 833-123-10. Lake Adair 10 Well at Orlando, FL.

LOCATION.--Lat 28°33'33", long 81°23'35", in NW¼NW¼SW¼ sec.23, T.22 S., R.29 E., Hydrologic Unit 03080101, 25 ft (8 m) northeast of intersection of Westmoreland Drive and Lake Adair Boulevard in Orlando.

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

WELL CHARACTERISTICS.--Drilled, artesian, observation well, diameter 4 in (10 cm), depth 400 ft (122 m), cased to 105 ft (32 m).

INSTRUMENTATION.--Tape measured. Measuring point: Bolt hole in cap, 3.63 ft (1.11 m) above land-surface datum.

DATUM.--Land-surface datum is 80.40 ft (24.51 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--November 1962 to November 1972; May 1973 to current year (bimonthly). 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, 68.92 ft (21.01 m) NGVD, June 28, 1974; lowest measured, 42.94 ft (13.09 m) NGVD, May 11, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
30...	0830	47.39	29...	0750	48.26
30...	1500	46.25	MAY		
NOV			10...	0757	47.46
30...	0840	46.16	JUN		
DEC			01...	0745	49.80
31...	1050	47.03	08...	0805	48.17
JAN			30...	0750	50.14
20...	1408	46.90	JUL		
FEB			29...	0755	52.66
01...	0800	46.78	AUG		
22...	0705	47.12	01...	0710	51.06
MAR			30...	--	51.16
01...	0745	46.54	SEP		
31...	0805	48.05	13...	0920	55.01
APR			30...	0750	53.71
12...	0735	51.61			

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1981 TO SEPTEMBER 1982

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ORANGE COUNTY

STATION NUMBER	STATION NAME	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF MEASURE- MENT	ELEV- ATION ABOVE NGVD (FEET)
282052080553101	82005502 24S34E33 CO LN	28 20 52	080 55 31	01	82-05-12 82-09-14	35.57 36.37
282344081054201	82310501 COCOA 11 NR BITHLO, FL	28 23 44	081 05 42	01	82-06-29	35.58
282348080564701	82305601 24S34E18	28 23 48	080 56 47	01	82-05-12 82-09-16	34.63 36.37
282404081050501	82410504 COCOA 12B NR BITHLO, FL	28 24 04	081 05 05	01	82-06-29	33.72
282405081053002	82410506 COCOA 4A1 NR BITHLO, FL	28 24 05	081 05 30	02	82-06-29	34.78
282412081044701	82410402 COCOA 12A NR BITHLO, FL	28 24 12	081 04 47	01	82-06-29	35.75
282416081054101	82410502 COCOA 4 NR BITHLO, FL	28 24 16	081 05 41	01	82-06-29	33.93
282451081054501	82410503 COCOA 5	28 24 51	081 05 45	01	82-06-29	35.92
282530081054204	82510521 COCOA 7T1 NR BITHLO, FL	28 25 30	081 05 42	04	82-06-30	64.43
282530081085401	82510802 COCOA 15 NR BITHLO, FL	28 25 30	081 08 54	01	82-06-29	35.35
282530081091701	82510902 COCOA 16 NR BITHLO, FL	28 25 30	081 09 17	01	82-06-28	36.01
282531081075601	82510703 COCOA 13 NR BITHLO, FL	28 25 31	081 07 56	01	82-06-29	34.68
282612081054201	82610502 COCOA 2 NR BITHLO, FL	28 26 12	081 05 42	01	82-06-30	32.82
282632081054501	82610503 COCOA 8 NR BITHLO, FL	28 26 32	081 05 45	01	82-06-29	29.98
282650081054201	82610504 COCOA 9 NR BITHLO, FL	28 26 50	081 05 42	01	82-06-29	30.02
282704081214301	82712101 23S29E25	28 27 04	081 21 43	01	82-05-10 82-09-13	47.21 59.46
282716081054501	82710501 COCOA 10 NR BITHLO, FL	28 27 16	081 05 45	01	82-06-30	35.77
282838080572401	82805701 23S34E18	28 28 38	080 57 24	01	82-05-12 82-09-17	32.80 34.40
282848080544501	82805402 23S34E15	28 28 48	080 54 45	01	82-05-12	31.00
282900081112901	82911101 23S31E14	28 29 00	081 11 29	01	82-05-12	38.98
283011081360001	83013603 23S27E10 W. ORANGE COUNTRY CLUB	28 30 11	081 36 00	01	82-05-11	73.05
283011081360002	WEST ORANGE COUNTRY CLUB WELL NR ORLANDO, FL	28 30 11	081 36 00	02	82-09-15	78.73
283049081141701	83011402 23S31E05	28 30 49	081 14 17	01	82-05-12 82-09-15	44.13 49.25
283105081222201	83112203 23S29E36	28 31 05	081 22 22	01	82-05-10 82-09-13	47.52 55.08
283121081311601	O-197 LK OLIVIA DRAIN WELL	28 31 21	081 31 16	01	82-05-10 82-09-15	64.18 69.46
283135081234301	83112319 22S29E34	28 31 35	081 23 21	01	82-05-10 82-09-13	48.28 54.90
283157081180401	83111802 22S30E34 ENGLEWOOD S/D DRAIN WEL	28 31 57	081 18 04	01	82-05-12 82-09-15	44.97 51.62
283201081010301	83210101 22S33E33 CHRISTMAS SCHOOL SUPPLY	28 32 01	081 01 03	01	82-05-12 82-09-17	30.92 32.78
283214080583501	83205801 22S33E36	28 32 14	080 58 35	01	82-05-12 82-09-17	26.36 27.86
283307081300801	83313001 22S28E22 W-5110 LK SHERWOOD D WL	28 33 07	081 30 08	01	82-05-11 82-09-13	57.24 63.59
283325081374001	83313703 22S27E20	28 33 25	081 37 40	01	82-05-11 82-09-14	72.59 78.62
283326081262101	83312601 22S29E20 LK LAWNE SOUTH SIDE	28 33 26	081 26 21	01	82-05-10 82-09-13	49.27 56.79
283407081134101	83411301 22S31E16	28 34 07	081 13 41	01	82-05-12 82-09-16	41.48 46.05

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1981 TO SEPTEMBER 1982

ORANGE COUNTY--Continued

STATION NUMBER	STATION NAME	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF MEASURE- MENT	ELEV- ATION ABOVE NGVD (FEET)
283412081163401	83411606 22S30E13	28 34 12	081 16 34	01	82-05-12 82-09-16	44.11 49.36
283417081331401	83413302 22S28E18	28 34 17	081 33 14	01	82-05-11 82-09-14	60.58 75.02
283441081203301	83412002 22S30E17	28 34 41	081 20 33	01	82-05-13 82-09-14	46.63 53.42
283524081344701	83513401 22S28E11	28 35 24	081 34 47	01	82-05-11 82-09-14	65.68 70.96
283528081235201	83512302 22S29E10	28 35 28	081 23 52	01	82-05-10 82-09-16	46.87 57.80
283530081214301	83512107 LAKE MIDGET DRAINAGE WELL IN W.P. FL	28 35 30	081 21 43	01	82-05-13 82-09-13	44.02 50.28
283548081181401	83511802 22S30E10	28 35 48	081 18 14	01	82-05-14 82-09-16	43.17 48.43
283550081070201	83510703 22S32E09	28 35 50	081 07 02	01	82-05-12 82-09-16	31.80 36.20
283557081231301	83512303 22S29E02	28 35 57	081 23 13	01	82-05-14 82-09-14	46.08 53.15
283605081103601	83611001 22S31E01 LEO FARON	28 36 05	081 10 36	01	82-05-12 82-09-16	36.19 38.88
283619081331801	83613301 22S28E06	28 36 19	081 33 18	01	82-05-11 82-09-14	55.21 68.25
283623081230501	83612301 22S29E02	28 36 23	081 23 05	01	82-05-14 82-09-14	46.10 52.81
283649081283601	83612803 21S28E35	28 36 49	081 28 36	01	82-05-10 82-09-14	56.33 61.81
283654081260801	83612604 21S29E32	28 36 54	081 26 08	01	82-05-10 82-09-14	52.92 58.70
283729081273701	83712704 21S28E36	28 37 29	081 27 37	01	82-05-10 82-09-14	45.02 50.88
283813081325701	83813204 21S28E30 APOPKA AGRI R.C.	28 38 13	081 32 57	01	82-05-11 82-09-14	53.40 59.42
283816081225501	83812201 21S29E26 LK CHARITY WELL NR MAITLAND F	28 38 16	081 22 55	01	82-05-11 82-09-14	45.83 51.90
284020081280601	84012801 21S28E12 WERIVA SPRINGS RD AT 436	28 40 20	081 28 06	01	82-05-11 82-09-14	44.53 49.75
284025081301701	84013002 21S28E10	28 40 25	081 30 17	01	82-05-11 82-09-14	46.25 51.62
284059081365401	84013601 21S27E09	28 40 59	081 36 54	01	82-05-11 82-09-14	57.79 61.97
284234081273901	84212702 20S28E36	28 42 34	081 27 39	01	82-05-13 82-09-17	20.08 21.57
284326081283601	84312802 20S28E26	28 43 26	081 28 36	01	82-05-14 82-09-17	42.85 46.20
284330081360501	84313603 20S27E27 JEWEL FOULAGE	28 43 30	081 36 05	01	82-05-11 82-09-14	52.95 57.47
284429081272001	84412701 20S29E19	28 44 29	081 27 20	01	82-05-13 82-09-17	29.00 31.20
284431081282801	84412802 20S28E24	28 44 31	081 28 28	01	82-05-13 82-09-17	36.54 38.74
284453081284401	84412801 20S28E14	28 44 53	081 28 44	01	82-05-13 82-09-17	35.93 38.73
284453081365101	84413601 20S27E16 SADDLER RD NR LK OLA	28 44 53	081 36 51	01	82-05-13 82-09-14	38.59 53.50
284523081330601	845133 20S28E18 MINY FARMS NURSEY	28 45 23	081 33 06	01	82-05-13 82-09-14	51.44 55.60

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1981 TO SEPTEMBER 1982

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ORANGE COUNTY--Continued

STATION NUMBER	STATION NAME	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF MEASURE- MENT	ELEV- ATION ABOVE NGVD (FEET)
284528081301101	84513005 20S28E10	28 45 28	081 30 11	01	82-05-13 82-09-14 82-09-14	28.77 36.00 29.51
284529081301001	84513001 20S28E10	28 45 29	081 30 10	01	82-05-13 82-09-14 82-09-14	34.22 36.00 29.51
284541081265201	84512601 20S29E07	28 45 41	081 26 52	01	82-05-13 82-09-17	31.67 33.60
284557081392201	84513902 20S27E07 132 LAKE CARLTON DEEP	28 45 57	081 39 22	01	82-05-13 82-09-14	53.06 57.86

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

ORANGE COUNTY

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS) (90095)	PH (STAND- ARD UNITS) (00400)	PH LAB (STAND- ARD UNITS) (00403)	TEMPER- ATURE (DEG C) (00010)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	HARD- NESS (MG/L AS CACO3) (00900)	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)	SODIUM AD- SORP- TION RATIO (00931)	
282344081054201 - 82310501 COCOA 11 NR BITHLO, FL (LAT 28 23 44 LONG 081 05 42)													
JUN , 1982	29...	1430	880	878	7.3	8.1	23.5	15	308	98	15	67	1.7
282404081050501 - 82410504 COCOA 12B NR BITHLO, FL (LAT 28 24 04 LONG 081 05 05)													
JUN , 1982	29...	1330	1035	1150	7.4	8.0	24.0	15	379	120	18	99	2.3
282405081053002 - 82410506 COCOA 4A1 NR BITHLO, FL (LAT 28 24 05 LONG 081 05 30)													
JUN , 1982	29...	1415	1095	1150	7.6	7.9	23.5	10	383	120	19	98	2.2
282412081044701 - 82410402 COCOA 12A NR BITHLO, FL (LAT 28 24 12 LONG 081 04 47)													
JUN , 1982	29...	1245	1400	1420	7.2	8.0	23.5	10	432	130	25	140	3.0
282416081054101 - 82410502 COCOA 4 NR BITHLO, FL (LAT 28 24 16 LONG 081 05 41)													
JUN , 1982	29...	1515	1160	1180	7.6	7.9	24.0	10	392	120	21	96	2.2
282529081073201 - 82510702 COCOA 7A NR BITHLO, FL (LAT 28 25 29 LONG 081 07 32)													
JUN , 1982	29...	1230	1000	1110	7.5	8.0	23.5	0	360	120	14	85	2.0
282530081054204 - 82510521 COCOA 7T1 NR BITHLO, FL (LAT 28 25 30 LONG 081 05 42)													
JUN , 1982	30...	0915	585	590	7.9	8.1	23.5	5	291	110	3.9	17	.4
282530081085401 - 82510802 COCOA 15 NR BITHLO, FL (LAT 28 25 30 LONG 081 08 54)													
JUN , 1982	29...	1015	662	662	7.7	8.1	24.5	5	304	100	13	29	.7
282530081091701 - 82510902 COCOA 16 NR BITHLO, FL (LAT 28 25 30 LONG 081 09 17)													
JUN , 1982	28...	1100	692	700	7.7	8.0	23.5	10	338	110	15	32	.7
282530081094001 - 82510903 COCOA 17 NR BITHLO, FL (LAT 28 25 30 LONG 081 09 40)													
JUN , 1982	28...	1045	638	660	7.5	8.1	23.5	5	317	100	16	26	.6
282531081075601 - 82510703 COCOA 13 NR BITHLO, FL (LAT 28 25 31 LONG 081 07 56)													
JUN , 1982	29...	1130	945	980	7.4	8.1	23.5	10	387	130	15	72	1.6

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

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ORANGE COUNTY--Continued

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE IT-LAB (MG-L - HCO3) (90440)	CAR- BONATE IT-LAB (MB/L - CO3) (90445)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	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)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)
282344081054201 - 82310501 COCOA 11 NR BITHLO, FL (LAT 28 23 44 LONG 081 05 42)											
JUN , 1982 29...	2.6	268	.0	220	62	110	.3	22	552	510	1700
282404081050501 - 82410504 COCOA 12B NR BITHLO, FL (LAT 28 24 04 LONG 081 05 05)											
JUN , 1982 29...	3.3	300	.0	246	100	180	.4	23	712	695	4200
282405081053002 - 82410506 COCOA 4A1 NR BITHLO, FL (LAT 28 24 05 LONG 081 05 30)											
JUN , 1982 29...	3.2	260	.0	213	110	180	.3	21	712	684	4400
282412081044701 - 82410402 COCOA 12A NR BITHLO, FL (LAT 28 24 12 LONG 081 04 47)											
JUN , 1982 29...	4.3	262	.0	215	160	250	.5	21	864	864	4200
282416081054101 - 82410502 COCOA 4 NR BITHLO, FL (LAT 28 24 16 LONG 081 05 41)											
JUN , 1982 29...	3.0	274	.0	225	140	180	.3	21	748	721	5200
282529081073201 - 82510702 COCOA 7A NR BITHLO, FL (LAT 28 25 29 LONG 081 07 32)											
JUN , 1982 29...	2.1	306	.0	251	120	110	.2	20	656	624	2000
282530081054204 - 82510521 COCOA 7T1 NR BITHLO, FL (LAT 28 25 30 LONG 081 05 42)											
JUN , 1982 30...	.9	380	.0	312	.8	18	.2	20	348	358	590
282530081085401 - 82510802 COCOA 15 NR BITHLO, FL (LAT 28 25 30 LONG 081 08 54)											
JUN , 1982 29...	1.7	266	.0	218	75	43	.3	22	436	416	1000
282530081091701 - 82510902 COCOA 16 NR BITHLO, FL (LAT 28 25 30 LONG 081 09 17)											
JUN , 1982 28...	1.8	252	.0	207	110	48	.3	21	508	463	1200
282530081094001 - 82510903 COCOA 17 NR BITHLO, FL (LAT 28 25 30 LONG 081 09 40)											
JUN , 1982 28...	1.6	246	.0	202	110	40	.2	21	482	437	1300
282531081075601 - 82510703 COCOA 13 NR BITHLO, FL (LAT 28 25 31 LONG 081 07 56)											
JUN , 1982 29...	2.2	298	.0	244	110	130	.2	22	620	629	920

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

ORANGE COUNTY--Continued

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS) (90095)	PH (STAND- ARD UNITS) (00400)	PH LAB (STAND- ARD UNITS) (00403)	TEMPER- ATURE (DEG C) (00010)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	HARD- NESS (MG/L AS CACO3) (00900)	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)	SODIUM AD- SORP- TION RATIO (00931)
282531081082201 - 82510801 COCOA 14 NR BITHLO, FL (LAT 28 25 31 LONG 081 08 22)												
JUN , 1982												
29...	0930	820	824	7.6	7.8	24.5	10	330	110	13	46	1.1
282533081082204 - 82510806 USGS OB W. COCOA C ZONE 3 NR BITHLO, FL (LAT 28 25 33 LONG 081 08 22)												
JUL , 1982												
29...	0710	887	822	8.0	8.1	--	0	356	110	17	48	1.1
282533081082205 - 82510807 USGS OB W. COCOA C ZONE 4 NR BITHLO, FL (LAT 28 25 33 LONG 081 08 22)												
JUL , 1982												
29...	0713	--	600	--	8.3	--	5	285	83	7.6	21	.6
282548081054201 - 82510504 COCOA 3 NR BITHLO, FL (LAT 28 25 48 LONG 081 05 42)												
JUL , 1982												
30...	1200	870	835	7.6	8.2	24.0	5	338	120	8.8	54	1.3
282612081054201 - 82610502 COCOA 2 NR BITHLO, FL (LAT 28 26 12 LONG 081 05 42)												
JUN , 1982												
30...	1100	1080	965	7.7	8.1	24.5	5	375	130	11	71	1.6
282632081054501 - 82610503 COCOA 8 NR BITHLO, FL (LAT 28 26 32 LONG 081 05 45)												
JUN , 1982												
29...	1600	1685	1780	7.5	8.2	23.5	10	557	170	30	190	3.6
282650081054201 - 82610504 COCOA 9 NR BITHLO, FL (LAT 28 26 50 LONG 081 05 42)												
JUN , 1982												
29...	1645	1370	1550	7.5	8.1	24.0	10	505	160	24	160	3.2
282716081054501 - 82710501 COCOA 10 NR BITHLO, FL (LAT 28 27 16 LONG 081 05 45)												
JUN , 1982												
30...	1010	1355	1390	7.6	7.9	24.5	5	458	140	25	130	2.7

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

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ORANGE COUNTY--Continued

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE IT-LAB (MG-L - HCO3) (90440)	CAR- BONATE IT-LAB (MB/L - CO3) (90445)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	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)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)
282531081082201 - 82510801 COCOA 14 NR BITHLO, FL (LAT 28 25 31 LONG 081 08 22)											
JUN , 1982 29...	2.0	286	.0	235	91	77	.1	22	544	504	1900
282533081082204 - 82510806 USGS OB W. COCOA C ZONE 3 NR BITHLO, FL (LAT 28 25 33 LONG 081 08 22)											
JUL , 1982 29...	2.1	250	.0	205	140	82	.4	21	578	554	10200
282533081082205 - 82510807 USGS OB W. COCOA C ZONE 4 NR BITHLO, FL (LAT 28 25 33 LONG 081 08 22)											
JUL , 1982 29...	1.2	296	.0	243	33	38	.4	22	396	392	40300
282548081054201 - 82510504 COCOA 3 NR BITHLO, FL (LAT 28 25 48 LONG 081 05 42)											
JUL , 1982 30...	1.4	362	.0	297	44	83	.3	25	526	516	1600
282612081054201 - 82610502 COCOA 2 NR BITHLO, FL (LAT 28 26 12 LONG 081 05 42)											
JUN , 1982 30...	1.8	356	.0	292	68	110	.3	24	612	595	4300
282632081054501 - 82610503 COCOA 8 NR BITHLO, FL (LAT 28 26 32 LONG 081 05 45)											
JUN , 1982 29...	5.0	270	.0	221	230	340	.3	21	1100	1127	8000
282650081054201 - 82610504 COCOA 9 NR BITHLO, FL (LAT 28 26 50 LONG 081 05 42)											
JUN , 1982 29...	3.9	284	.0	233	190	280	.3	22	1010	985	5600
282716081054501 - 82710501 COCOA 10 NR BITHLO, FL (LAT 28 27 16 LONG 081 05 45)											
JUN , 1982 30...	3.9	256	.0	210	190	230	.2	22	884	871	4400

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

ORANGE COUNTY--Continued

DATE	TIME	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN) (72004)	FLOW RATE, INSTAN- TANEOUS (GPM) (00059)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS) (90095)	PH (STAND- ARD UNITS) (00400)	PH LAB (STAND- ARD UNITS) (00403)	TEMPER- ATURE (DEG C) (00010)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	TUR- BID- ITY (NTU) (00076)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
283314081222201 - PARK LAKE DRAINAGE WELL IN ORLANDO, FL (LAT 28 33 14 LONG 081 22 22)												
MAY , 1982												
26...	1600	65	100	320	310	6.9	8.0	24.0	5	.60	--	130
SEP												
02...	1210	--	--	300	276	7.4	7.8	--	5	.30	K28	37
283530081214301 - 83512107 LAKE MIDGET DRAINAGE WELL IN W.P. FL (LAT 28 35 30 LONG 081 21 43)												
MAY , 1982												
26...	1230	52	100	320	--	6.7	7.0	24.0	20	.50	--	220

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3) (95902)	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)	SODIUM AD- SORP- TION RATIO (00931)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
283314081222201 - PARK LAKE DRAINAGE WELL IN ORLANDO, FL (LAT 28 33 14 LONG 081 22 22)											
MAY , 1982											
26...	450	141	5.0	43	8.1	11	1.5	.4	136	8.0	11
SEP											
02...	K20	125	13	39	6.6	7.7	1.2	.3	112	8.0	9.5
283530081214301 - 83512107 LAKE MIDGET DRAINAGE WELL IN W.P. FL (LAT 28 35 30 LONG 081 21 43)											
MAY , 1982											
26...	750	151	24	55	3.4	5.9	1.3	.2	127	28	5.9

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

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ORANGE COUNTY--Continued

DATE	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
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283314081222201 - PARK LAKE DRAINAGE WELL IN ORLANDO, FL (LAT 28 33 14 LONG 081 22 22)

MAY , 1982											
26...	.00	.00	.000	.000	.00	.00	.820	.810	.09	.15	.91
SEP											
02...	.06	.06	.000	.000	.06	.06	.430	.430	.18	.18	.61

283530081214301 - 83512107 LAKE MIDGET DRAINAGE WELL IN W.P. FL (LAT 28 35 30 LONG 081 21 43)

MAY , 1982											
26...	.00	.00	.000	.000	.00	.00	.460	.460	.71	.49	1.17

DATE	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00600)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA) (01007)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)
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283314081222201 - PARK LAKE DRAINAGE WELL IN ORLANDO, FL (LAT 28 33 14 LONG 081 22 22)

MAY , 1982											
26...	.96	.91	.170	.170	.150	.150	.46	<100	1	10	4
SEP											
02...	.61	.67	.110	.110	.100	.100	.30	<100	<1	10	12

283530081214301 - 83512107 LAKE MIDGET DRAINAGE WELL IN W.P. FL (LAT 28 35 30 LONG 081 21 43)

MAY , 1982											
26...	.95	1.1	.250	.230	.190	.200	.61	<100	1	10	6

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

ORANGE COUNTY--Continued

DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB) (01050)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN) (01091)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
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283314081222201 - PARK LAKE DRAINAGE WELL IN ORLANDO, FL (LAT 28 33 14 LONG 081 22 22)

MAY , 1982											
26...	130	4	1	3	10	<.1	1	<1	20	10	8
SEP											
02...	170	3	0	3	20	<.1	<1	<1	10	1	9

283530081214301 - 83512107 LAKE MIDGET DRAINAGE WELL IN W.P. FL (LAT 28 35 30 LONG 081 21 43)

MAY , 1982											
26...	1300	14	7	7	40	<.1	<1	<1	20	0	20

DATE	NAPH- THA- NES, POLY- CHLOR. TOTAL (UG/L) (39250)	DI- AZINON, TOTAL (UG/L) (39570)	ETHION, TOTAL (UG/L) (39398)	MALA- THION, TOTAL (UG/L) (39530)	METHYL PARA- THION, TOTAL (UG/L) (39600)	METHYL TRI- THION, TOTAL (UG/L) (39790)	PARA- THION, TOTAL (UG/L) (39540)	TOTAL TRI- THION TOTAL (UG/L) (39786)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	DI- CHLORO- BROMO- METHANE TOTAL (UG/L) (32101)
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283314081222201 - PARK LAKE DRAINAGE WELL IN ORLANDO, FL (LAT 28 33 14 LONG 081 22 22)

MAY , 1982												
26...	<1.0	.05	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<1.0
SEP												
02...	--	.03	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<1.0

283530081214301 - 83512107 LAKE MIDGET DRAINAGE WELL IN W.P. FL (LAT 28 35 30 LONG 081 21 43)

MAY , 1982												
26...	<1.0	<.01	<.01	<.01	<.01	<.01	<.01	<.01	--	--	--	--

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

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ORANGE COUNTY--Continued

DATE	CARBON- TETRA- CHLO- RIDE TOTAL (UG/L) (32102)	1,2-DI- CHLORO- ETHANE TOTAL (UG/L) (32103)	BROM- OFORM TOTAL (UG/L) (32104)	CHLORO- DI- BROMO- METHANE TOTAL (UG/L) (32105)	CHLORO- OFORM TOTAL (UG/L) (32106)	TOLUENE TOTAL (UG/L) (34010)	BENZENE TOTAL (UG/L) (34030)	ACE- NAPHTH- YLENE TOTAL (UG/L) (34200)	ACE- NAPHTH- ENE TOTAL (UG/L) (34205)	ANTHRA- CENE TOTAL (UG/L) (34220)	BENZO B FLUOR- AN- THENE TOTAL (UG/L) (34230)	BENZO K FLUOR- AN- THENE TOTAL (UG/L) (34242)
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283314081222201 - PARK LAKE DRAINAGE WELL IN ORLANDO, FL (LAT 28 33 14 LONG 081 22 22)

MAY , 1982												
26...	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
SEP												
02...	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

283530081214301 - 83512107 LAKE MIDGET DRAINAGE WELL IN W.P. FL (LAT 28 35 30 LONG 081 21 43)

MAY , 1982												
26...	--	--	--	--	--	--	--	<1.0	<1.0	<1.0	<1.0	<1.0

DATE	BENZO- A- PYRENE TOTAL (UG/L) (34247)	BIS 2- CHLORO- ETHYL ETHER TOTAL (UG/L) (34273)	BIS (2- CHLORO- ETHOXY) METHANE TOTAL (UG/L) (34278)	BIS (2- CHLORO- ISO- PROPYL) ETHER TOTAL (UG/L) (34283)	N-BUTYL BENZYL ATE TOTAL (UG/L) (34292)	CHLORO- BENZENE TOTAL (UG/L) (34301)	CHLORO- ETHANE TOTAL (UG/L) (34311)	CHRY- SENE TOTAL (UG/L) (34320)	DIETHYL PHTHAL- ATE TOTAL (UG/L) (34336)	DI- METHYL PHTHAL- ATE TOTAL (UG/L) (34341)	ETHYL- BENZENE TOTAL (UG/L) (34371)	FLUOR- ANTHENE TOTAL (UG/L) (34376)
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283314081222201 - PARK LAKE DRAINAGE WELL IN ORLANDO, FL (LAT 28 33 14 LONG 081 22 22)

MAY , 1982												
26...	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
SEP												
02...	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

283530081214301 - 83512107 LAKE MIDGET DRAINAGE WELL IN W.P. FL (LAT 28 35 30 LONG 081 21 43)

MAY , 1982												
26...	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	--	<1.0

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

ORANGE COUNTY--Continued

DATE	FLUOR- ENE TOTAL (UG/L) (34381)	HEXA- CHLORO- CYCLO- PENT- ADIENE TOTAL (UG/L) (34386)	HEXA- CHLORO- ETHANE TOTAL (UG/L) (34396)	INDENO (1,2,3- CD) PYRENE TOTAL (UG/L) (34403)	ISO- PHORONE TOTAL (UG/L) (34408)	METHYL- BROMIDE TOTAL (UG/L) (34413)	METHYL- CHLO- RIDE TOTAL (UG/L) (34423)	N- NITRO- SODI-N- PROPYL- AMINE TOTAL (UG/L) (34428)	N-NITRO -SODI- PHENY- LAMINE TOTAL (UG/L) (34433)	N-NITRO -SODI- METHY- LAMINE TOTAL (UG/L) (34438)	NITRO- BENZENE TOTAL (UG/L) (34447)	PARA- CHLORO- META CRESOL TOTAL (UG/L) (34452)
------	---	---	--	--	---	--	--	---	---	---	---	--

283314081222201 - PARK LAKE DRAINAGE WELL IN ORLANDO, FL (LAT 28 33 14 LONG 081 22 22)

MAY , 1982

26... <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0

SEP

02... <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0

283530081214301 - 83512107 LAKE MIDGET DRAINAGE WELL IN W.P. FL (LAT 28 35 30 LONG 081 21 43)

MAY , 1982

26... <1.0 <1.0 <1.0 <1.0 <1.0 -- -- <1.0 <1.0 <1.0 <1.0 <1.0

DATE	PHENAN- THRENE TOTAL (UG/L) (34461)	PYRENE TOTAL (UG/L) (34469)	TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L) (34475)	TRI- CHLORO- FLOURO- METHANE TOTAL (UG/L) (34488)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L) (34496)	1,1-DI- CHLORO- ETHYL- ENE TOTAL (UG/L) (34501)	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L) (34506)	1,1,2- TRI- CHLORO- ETHANE TOTAL (UG/L) (34511)	1,1,2,2 TETRA- CHLORO- ETHANE TOTAL (UG/L) (34516)	BENZOGH I PERYL ENEL,12 -BENZOP ERYLENE TOTAL (UG/L) (34521)	BENZO A ANTHRAC ENEL,2- BENZANT HRACENE TOTAL (UG/L) (34526)	1,2-DI- CHLORO- BENZENE TOTAL (UG/L) (34536)
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283314081222201 - PARK LAKE DRAINAGE WELL IN ORLANDO, FL (LAT 28 33 14 LONG 081 22 22)

MAY , 1982

26... <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0

SEP

02... <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0

283530081214301 - 83512107 LAKE MIDGET DRAINAGE WELL IN W.P. FL (LAT 28 35 30 LONG 081 21 43)

MAY , 1982

26... <1.0 <1.0 -- -- -- -- -- -- -- <1.0 <1.0 <1.0

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

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ORANGE COUNTY--Continued

DATE	1,2-DI- CHLORO- PROPANE TOTAL (UG/L) (34541)	CHLORO- ETHYL- ENE TOTAL (UG/L) (34546)	1,2,4- TRI- CHLORO- BENZENE TOTAL (UG/L) (34551)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (UG/L) (34556)	1,3-DI- CHLORO- PROPANE TOTAL (UG/L) (34561)	1,3-DI- CHLORO- BENZENE TOTAL (UG/L) (34566)	1,4-DI- CHLORO- BENZENE TOTAL (UG/L) (34571)	2- CHLORO- ETHYL- VINYL- ETHER TOTAL (UG/L) (34576)	2- CHLORO- NAPH- THALENE TOTAL (UG/L) (34581)	2- CHLORO- PHENOL TOTAL (UG/L) (34586)	2- NITRO- PHENOL TOTAL (UG/L) (34591)	DI-N- OCTYL PHTHAL- ATE TOTAL (UG/L) (34596)
------	---	--	--	--	---	---	---	--	---	---	--	--

283314081222201 - PARK LAKE DRAINAGE WELL IN ORLANDO, FL (LAT 28 33 14 LONG 081 22 22)

MAY , 1982

26... <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0

SEP

02... <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0

283530081214301 - 83512107 LAKE MIDGET DRAINAGE WELL IN W.P. FL (LAT 28 35 30 LONG 081 21 43)

MAY , 1982

26... -- -- <1.0 370 -- <1.0 <1.0 -- <1.0 <1.0 <1.0 <1.0

DATE	2,4-DI- CHLORO- PHENOL TOTAL (UG/L) (34601)	2,4-DI- METHYL- PHENOL TOTAL (UG/L) (34606)	2,4-DI- NITRO- TOLUENE TOTAL (UG/L) (34611)	2,4,- DI- NITRO- PHENOL TOTAL (UG/L) (34616)	2,4,6- TRI- CHLORO- PHENOL TOTAL (UG/L) (34621)	2,6-DI- NITRO- TOLUENE TOTAL (UG/L) (34626)	3,3'- DI- CHLORO- BENZ I- DINE TOTAL (UG/L) (34631)	4- BROMO- PHENYL ETHER TOTAL (UG/L) (34636)	4- CHLORO- PHENYL ETHER TOTAL (UG/L) (34641)	4- NITRO- PHENOL TOTAL (UG/L) (34646)	4,6- DINITRO -ORTHO- CRESOL TOTAL (UG/L) (34657)	DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L) (34668)
------	--	--	--	--	---	--	--	---	--	--	--	---

283314081222201 - PARK LAKE DRAINAGE WELL IN ORLANDO, FL (LAT 28 33 14 LONG 081 22 22)

MAY , 1982

26... <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0

SEP

02... <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0

283530081214301 - 83512107 LAKE MIDGET DRAINAGE WELL IN W.P. FL (LAT 28 35 30 LONG 081 21 43)

MAY , 1982

26... <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 --

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

ORANGE COUNTY--Continued

DATE	2,3,7,8 TETRACH LORODI-	PHENOL	NAPHTH-	PENTA-	BIS(2- ETHYL HEXYL)	DI-N- BUTYL	BENZI-	VINYL	TRI-	HEXA-	HEXA-
	BENZO-P	(C6H-	ALENE	CHLORO-	PHTHAL-	PHTHAL-	DINE	CHLO-	CHLORO-	CHLORO-	CHLORO-
	-DIOXIN	5OH)		PHENOL	ATE	ATE		RIDE	ETHYL-	BENZENE	BUT-
	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	ADIENE
	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
	(34675)	(34694)	(34696)	(39032)	(39100)	(39110)	(39120)	(39175)	(39180)	(39700)	(39702)
283314081222201 - PARK LAKE DRAINAGE WELL IN ORLANDO, FL (LAT 28 33 14 LONG 081 22 22)											
MAY , 1982											
26...	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
SEP											
02...	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
283530081214301 - 83512107 LAKE MIDGET DRAINAGE WELL IN W.P. FL (LAT 28 35 30 LONG 081 21 43)											
MAY , 1982											
26...	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	--	--	<1.0	<1.0

KEY TO SITE LOCATIONS ON FIGURE 20
OSCEOLA COUNTY

Index number	Site number	Page number
1	274828081010901	155
2	280619080542601	155
3	281722080543001	156

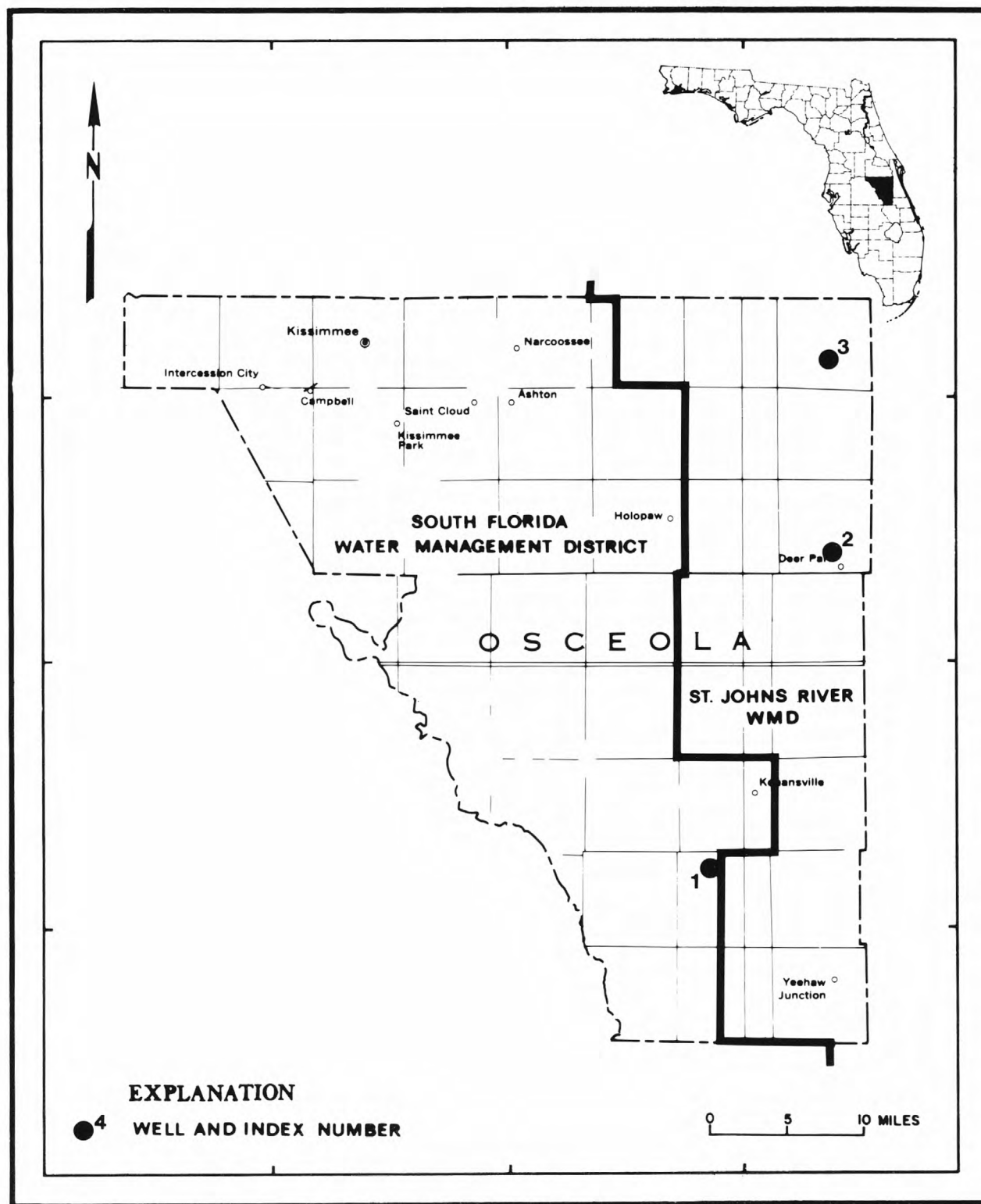


FIGURE 20. LOCATION OF WELLS IN OSCEOLA COUNTY.

OSCEOLA COUNTY

WELL NUMBER.--274828081010901. Local Number 748-101-01. USGS Observation Well OS183 near Kenansville, FL.

LOCATION.--Lat 27°48'28", long 81°01'09", in SE¼SW¼SW¼ sec.3, T.31 S., R.33 E., Hydrologic Unit 03080101, on west side of Peavine Trail (State Highway 523A), 5.3 mi (8.5 km) north of State Highway 60, and 5.4 mi (8.7 km) south of Kenansville.

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

WELL CHARACTERISTICS.--Drilled, observation, nonartesian well, diameter 6 in (15 cm), depth 27 ft (8 m), cased to 19 ft (6 m), gravel packed from 19 ft (6 m) to 27 ft (8 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of casing, 3.50 ft (1.07 m) above land-surface datum.

DATUM.--Land-surface datum is 73.33 ft (22.35 m) National Geodetic Vertical Datum of 1929.

COOPERATION.--Since Oct. 1, 1968, records furnished by South Florida Water Management District and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--August 1948 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 75.11 ft (22.89 m) NGVD, Nov. 23, 1977; lowest, 68.10 ft (20.76 m) NGVD, May 31, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	70.74	72.36	70.36	70.23	70.42	69.98	70.65	70.50	71.51	72.60	72.95	71.85
10	70.52	71.74	70.16	70.09	70.57	70.95	70.32	70.13	70.74	72.63	72.33	72.90
15	70.41	71.07	70.02	70.88	70.30	70.56	71.25	69.80	70.46	71.32	72.60	72.96
20	70.22	70.81	69.95	70.63	70.89	70.16	70.65	69.56	72.94	72.95	72.90	71.44
25	70.09	70.64	69.87	70.50	70.43	70.20	70.24	69.82	73.01	72.96	72.74	72.67
EOM	71.85	70.49	69.79	70.14	70.25	71.35	71.12	72.08	72.00	72.78	72.91	72.97
MAX	71.85	72.36	70.46	70.90	71.05	71.67	71.58	72.08	73.06	73.05	73.02	73.03
WTR YR 1982	MEAN	71.15	MAX	73.06	JUN 24	MIN	69.50	MAY 22				

WELL NUMBER.--280619080542601. Local Number 806-054-01. USGS Observation Well OS179 at Deer Park, FL.

LOCATION.--Lat 28°06'19", long 80°54'26", in NW¼NE¼SW¼ sec.27, T.27 S., R.34 E., Hydrologic Unit 03080101, on south side of U.S. Highway 192, 11 mi (18 km) east of Holopaw, and 0.8 mi (1.3 km) northwest of Deer Park.

AQUIFER.--Nonartesian sand aquifer of the Pleistocene Age, Geologic Unit 112 SDGV.

WELL CHARACTERISTICS.--Drilled, observation, nonartesian well, diameter 6 in (15 cm), depth 17.6 ft (5.4 m), cased to 17.6 ft (5.4 m), gravel packed 12.6 ft (3.8 m) to 17.6 ft (5.4 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of casing, 3.20 ft (0.98 m) above land-surface datum.

DATUM.--Land-surface datum is 48.84 ft (14.89 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--April 1949 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, 49.11 ft (14.97 m) NGVD, July 15, 1978; lowest, 42.67 ft (13.01 m) NGVD, June 6, 1967.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	46.27	46.61	45.49	44.93	44.75	45.71	46.28	46.40	47.74	47.97	46.98	46.97
10	46.03	46.28	45.32	44.85	44.77	46.75	47.15	46.12	47.02	47.45	47.67	47.98
15	45.93	46.08	45.24	45.07	44.70	46.27	47.55	45.84	47.03	47.03	47.46	47.37
20	45.72	45.79	45.15	45.09	44.97	45.91	47.40	45.58	47.85	48.20	47.60	47.41
25	45.92	45.60	45.07	44.97	44.83	45.66	46.86	46.14	47.82	47.91	47.09	48.01
EOM	45.78	45.45	45.00	44.77	44.70	47.07	46.88	48.13	47.03	47.67	47.64	47.53
MAX	46.60	46.64	45.54	45.09	44.98	47.21	47.57	48.13	48.23	48.20	48.07	48.15
WTR YR 1982	MEAN	46.39	MAX	48.23	JUN 2	MIN	44.62	MAR 4				

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

OSCEOLA COUNTY

WELL NUMBER.--281722080543001. Local Number 817-054-01. USGS Observation Well OS171 near Deer Park, FL.

LOCATION.--Lat 28°17'22", long 80°54'30", in SE¼SW¼SW¼ sec.22, T.25 S., R.34 E., Hydrologic Unit 03080101, on ranch road, 0.9 mi (1.4 km) east of State Highway 532, 3.6 mi (5.8 km) south of K-6 Ranch Headquarters, and 13.5 mi (21.7 km) north of Deer Park.

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

WELL CHARACTERISTICS.--Drilled, observation, nonartesian well, diameter 6 in (15 cm), depth 19 ft (6 m), cased to 12.7 ft (3.9 m), gravel packed, 11 ft (3 m) to 19 ft (6 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of casing, 3.00 ft (0.91 m) above land-surface datum.

DATUM.--Land-surface datum is 31.60 ft (9.63 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--October 1950 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, 33.56 ft (10.23 m) NGVD, Sept. 23, 1960; lowest, 26.32 ft (8.02 m) NGVD, July 28, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	29.04	30.97	30.09	30.76	30.63	30.59	30.90	30.87	31.35	31.60	31.19	31.05
10	28.88	31.01	29.65	30.50	30.49	30.98	31.52	30.34	30.92	31.38	31.28	31.10
15	29.12	30.69	29.88	30.90	30.31	30.77	31.29	29.60	30.81	30.99	31.11	30.80
20	28.85	30.30	29.59	30.66	30.49	30.39	30.98	29.19	31.87	31.31	31.35	31.11
25	28.71	29.96	29.58	30.47	29.94	30.87	31.11	30.21	31.40	31.33	31.14	31.47
EOM	29.25	29.77	30.60	30.44	29.78	31.27	31.13	31.87	30.97	31.56	31.49	31.67
MAX	29.44	31.02	30.60	30.98	30.80	31.34	31.68	31.87	32.13	31.63	31.60	31.82
WTR YR 1982	MEAN	30.63	MAX	32.13	JUN 18	MIN	28.62	OCT 29				

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1981 TO SEPTEMBER 1982

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OSCEOLA COUNTY

STATION NUMBER	STATION NAME	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF MEASURE- MENT	ELEV- ATION ABOVE NGVD (FEET)
274307080582401	743058--	27 43 07	080 58 24	01	82-05-11 82-09-16	44.39 45.72
274856080594401	74805902 31S33E20 HAYMAN WELL NR KENANSVILLE	27 48 56	080 59 44	01	82-05-11 82-09-16	42.45 44.32
274947080584001	74905801HAYMAN W. NR. KENANSVILLE, FL.	27 49 47	080 58 40	01	81-10-05 81-11-30 82-01-20	70.59 70.06 70.25
275852081030501	TH-10 WILLIAMS RD	27 58 52	081 03 05	01	82-05-13 82-09-17	43.65 45.34
280229080565501	80205601 28S34E17 TH-8	28 02 29	080 56 55	01	82-05-13 82-09-17	41.49 43.19
280448080531601	80405301 28S34E02 DEER PARK	28 04 48	080 53 16	01	82-05-13 82-09-17	40.00 40.50
280501080523701	KEMPFER WELL NR DEER PARK	28 05 26	080 52 40	01	82-05-11 82-09-17	40.56 40.66
280526080543001	805054-- 27S34E34 K-8IN PUMP DEER PARK	28 05 26	080 54 30	01	82-09-17	42.46
280829080574001	808057 27S34E18 TH-6 DEER PARK NW	28 08 29	080 57 40	01	82-05-00 82-05-12 82-09-15	63.28 41.66 43.29
281105080541401	811054-- 26S34E34 RODEO FIELD DEER PARK NW	28 11 05	080 54 14	01	82-05-11 82-09-20	38.51 40.26
281116081024101	81110201 26S33E29 DSRW5	28 11 16	081 02 41	01	82-05-12 82-09-15	67.16 42.53
281630080591001	816059 25S33E26 TH-3 LAKE POINSETT SW	28 16 30	080 59 10	01	82-05-12 82-09-14	37.07 38.75
281630081024401	TH-9 NOVA RD 532 WEST	28 16 30	081 02 44	01	82-05-12 82-09-14	40.30 41.96
281632080515001	816051 25S34E36 DSR38	28 16 32	080 51 50	01	82-09-20	35.70
281820080540501	818054-- 25S34E15 K6-TILT LAKE POINSETT SW	28 18 20	080 54 05	01	82-09-20	36.98
281919080533301	819053 25S34E11 K6NR LAW2 LK POINSETT SW	28 19 19	080 53 33	01	82-09-20	36.11

WATER RESOURCES DATA FOR FLORIDA, 1982
Volume 1B: Northeast Florida

KEY TO SITE LOCATIONS ON FIGURE 21
PUTNAM COUNTY

Index number	Site number	Page number
1	293720081534501	160

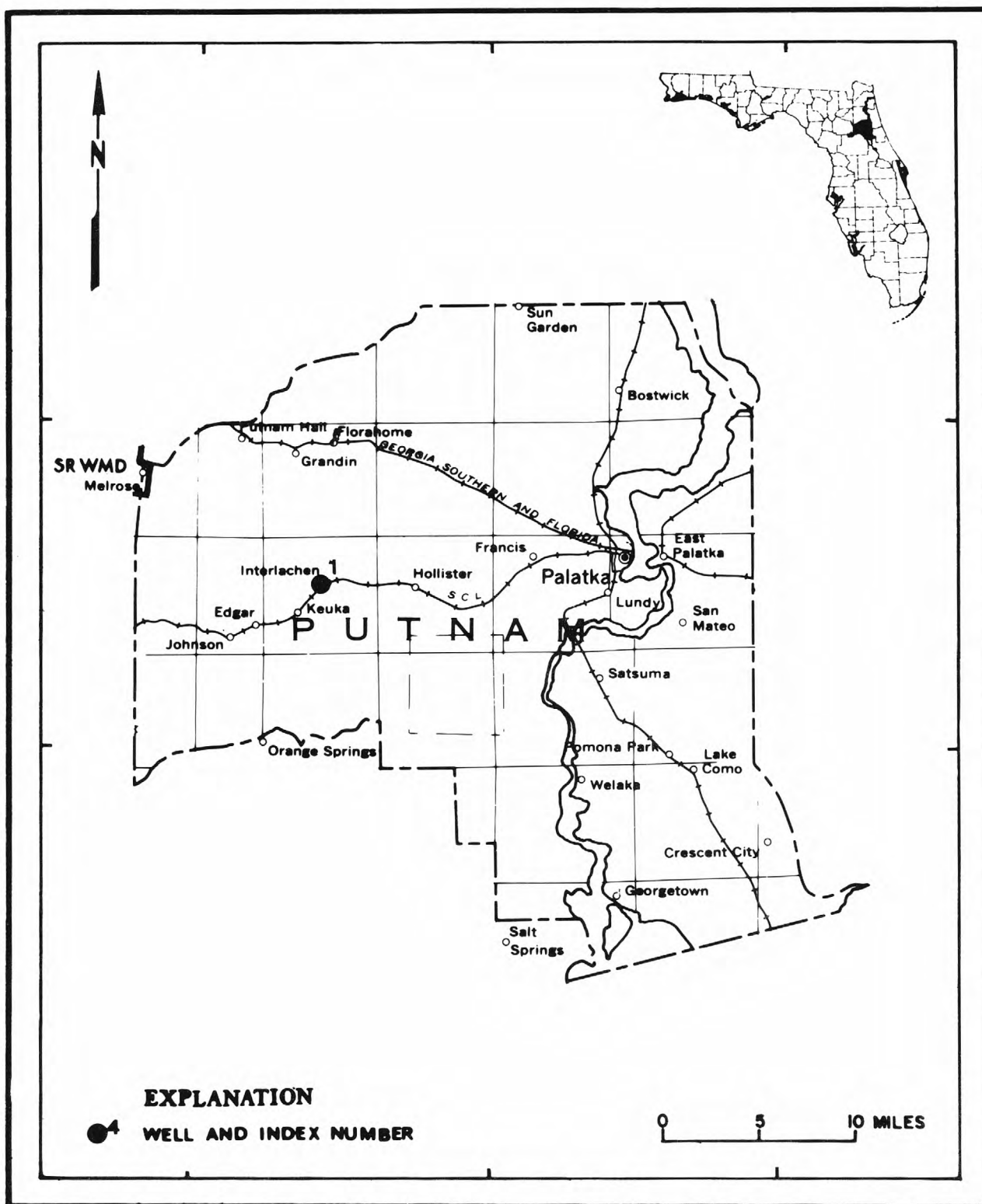


FIGURE 21. LOCATION OF WELLS IN PUTNAM COUNTY.

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

PUTNAM COUNTY

WELL NUMBER.--293720081534501. Local Number Putnam 937-153-01. Interlachen City Well at Interlachen, FL.

LOCATION.--Lat 29°37'20", long 81°53'45", in NE¼NE¼SE¼ sec.16, T.10 S., R.24 E., Hydrologic Unit 03080102, behind town water tank at southwest corner of Tremont Street and Francis Street in Interlachen.

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

WELL CHARACTERISTICS.--Drilled, public-supply, artesian well, diameter 12 in (30 cm), depth 303 ft (92 m), cased to 300 ft (91 m).

INSTRUMENTATION.--Tape measured. Measuring point: Edge of 1 in (2 cm) hole in pump base, 1.15 ft (0.35 m) above land-surface datum.

DATUM.--Land-surface datum is 107.34 ft (32.72 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1978, land-surface datum was considered to be 110 ft (34 m), from topographic map.

REMARKS.--The figures of water levels as elevation NGVD prior to Oct. 1, 1978, are in error. Revised records are available in files of the Geological Survey.

PERIOD OF RECORD.--April 1934 to March 1935 (semiannually); April 1956 to July 1964 (bimonthly); January 1965 to September 1972 (semiannually); January 1973 to current year (bimonthly). Records of water levels prior to January 1975 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 79.67 ft (24.28 m) NGVD, present datum, Jan. 6, 1966; lowest measured, 71.62 ft (21.83 m) NGVD, present datum, Apr. 29, 1957.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT 21...	1510	74.74	MAY 12...	1430	75.69
DEC 16...	1530	74.50	JUN 08...	1045	75.84
FEB 09...	1400	74.81	AUG 11...	1310	77.28
APR 01...	1320	74.74	SEP 15...	0835	77.62

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1981 TO SEPTEMBER 1982

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PUTNAM COUNTY

STATION NUMBER	STATION NAME	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF MEASURE- MENT	ELEV- ATION ABOVE NGVD (FEET)
292143081374601	*SJ* P423 13S27E39 DRAYTONISLANDEASTSHORE GRAMD	29 21 43	081 37 46	01	82-05-11 82-09-14	9.54 11.11
292218081333101	*SJ* P410 13S27E11 UNIONCAMPSJRWMDOBSWELLGEORTOW	29 22 18	081 33 31	01	82-05-11 82-09-13	25.10 26.72
292238081380301	*SJ* P422 13S27E39 DRAYTONISLANDEASTSHOREFCJONES	29 22 38	081 38 03	01	82-05-11 82-09-14	14.30 16.80
292246081284301	92212801	29 22 46	081 28 43	01	82-05-13 82-09-16	13.50 16.20
292254081382101	*SJ* P421 13S27E39 DRAYTONISLAND EASTSHORELANDIN	29 22 54	081 38 21	01	82-05-11 82-09-14	8.23 12.60
292307081305201	*SJ* P341 13S28E06 OLDHWY17OLD FERNERY.5MILEWOF17	29 23 07	081 30 52	01	82-05-11 82-09-14	26.45 28.74
292330081325001	92313202	29 23 30	081 32 50	01	82-05-13 82-09-16	18.74 21.23
292528081383501	92513801 26S12E26 PUTNAM 28	29 25 28	081 38 35	01	82-05-13 82-09-13	17.82 19.79
292606081311101	*SJ* P242 12S28E25 DGAUTIERLAKESTELLACRESCENTCIT	29 26 06	081 31 11	01	82-05-10 82-09-13	29.35 31.20
292621081375101	*SJ* P373 MANSFIELD FERNERY BEULAH CH RD	29 26 22	081 37 44	01	82-05-11 82-09-13	17.27 24.67
292627081334301	92113301 12S27E22 HY308 WEST NEAR CRESENT CITY	29 26 27	081 33 43	01	82-05-13 82-09-16	31.10 32.90
292628081385501	*SJ* P396 12S26E23 WELAKAFISHHATCHERYFRUITLAND	29 26 28	081 38 55	01	82-05-11 82-09-13	11.68 12.56
292824081443301	JOHNSONS FIELD NR WELAKA	29 28 24	081 44 33	01	82-05-13 82-09-16	4.25 9.06
292834081402501	92814001 12S26E41 WELAKA	29 28 34	081 40 25	01	82-05-13 82-09-16	5.82 7.23
292859081375701	P-408 HWAY 308B	29 28 59	081 37 57	01	82-05-10 82-09-13	18.37 20.28
292859081375702	P-409 SH OBS WELL HWY 308B	29 28 59	081 37 57	02	82-05-10 82-09-13	70.71 70.98
292948081503001	RD 77-G WELL NR ORANGE SPGS	29 29 48	081 50 30	01	82-09-14	20.50
293107081352001	*SJ* P267 11S27E28 LAKEBROWARDPARKERRESONLAKE	29 31 07	081 35 20	01	82-05-10 82-09-14	27.83 29.53
293113081370301	*SJ* P382 11S27E19 MAINROAD OFFSISCORDPOMONAPARK	29 31 13	081 37 03	01	82-05-11 82-09-14	29.06 30.61
293214081352201	*SJ* P413 11S27E21 SJRWMDOWSWELLNEARLAKEBROWARD	29 32 14	081 35 22	01	82-05-10 82-09-14	39.59 39.83
293234081424101	93214201 --S--E-- RODEHEAVER BOYS RANCH	29 32 34	081 42 41	01	82-05-12 82-09-15	17.34 19.32
293300081523901	933152 11S24E11 CE 60 U S A CORPS ENG.	29 33 00	081 52 39	01	82-05-12 82-09-15	60.30 62.40
293304081342301	*SJ* P411 11S27E09 PINEYBLUFFLANDINGDUNNSCREEK	29 33 04	081 34 23	01	82-05-10 82-09-13	21.46 23.66
293420081415601	93414101 11S26E04 AM THOMAS	29 34 20	081 41 56	01	82-05-12 82-09-15	25.60 28.70
293439081524301	*SJ* P17 10S24E35 DEEP CRK OFF HWY 315 KEUKA	29 34 39	081 52 43	01	82-05-12 82-09-14	69.02 71.67
293441081373401	93413701 11S26E37 DUNNS CR BRIDGE	29 34 41	081 37 34	01	82-05-13 82-09-16	26.60 29.30
293543081315301	93513101 11S26E-- B.T. TILTON	29 35 43	081 31 53	01	82-05-13 82-09-16	13.24 17.50
293624081454801	93614501 10S25E23 MILLER	29 36 24	081 45 48	01	82-05-13 82-09-15	27.85 29.25

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1981 TO SEPTEMBER 1982

PUTNAM COUNTY--Continued

STATION NUMBER	STATION NAME		LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF MEASURE- MENT	ELEV- ATION ABOVE NGVD (FEET)
293631082005201	*SJ* P5 10S23E20 N TWIN LK HWY 20	HWTHRN	29 36 31	082 00 52	01	82-05-12 82-09-15	82.99 84.63
293632081595601	*SJ* P7 10S23E21 COWPNS LK WELL HWY 20	KEUKA	29 36 32	081 59 56	01	82-05-12	81.87
293657082014201	93620101 10S23E18 FALLEN OAK FARM		29 36 57	082 01 42	01	82-05-12 82-09-15	74.28 77.40
293720081595301	*SJ* P8 10S23E10 CHESSER WELL	PTMHLL	29 37 20	081 59 53	01	82-05-12 82-09-15	80.85 82.76
293744081541601	*SJ* P15 10S24E16 GRASSY LAKE WELL	PTMHLL	29 37 44	081 54 16	01	82-05-12 82-09-14	73.95 75.84
293806081544901	*SJ* P16 10S24E08 KELLER WELL#11	PTNMHLL	29 38 06	081 54 49	01	82-05-12 82-09-14	73.83 76.41
293909081405401	93914001 10S26E03 PALATKA POLICE RANGE		29 39 09	081 40 54	01	82-05-12 82-09-15	23.80 24.42
293913081384001	93913801 10S26E01		29 39 13	081 38 40	01	82-05-13 82-09-15	23.02 25.98
293933081342801	93913411 10S27E04 P-172 CRACKER SWAMP		29 39 33	081 34 30	01	82-05-13 82-09-16	14.81 20.38
294034081431001	94014301 09S26E32 DAVIS SPRINGSIDE		29 40 34	081 43 10	01	82-05-13 82-09-15	29.90 32.90
294055081354501	*SJ* P77 09S27E EASTPALATKA MECHECKFARMS		29 40 55	081 35 45	01	82-05-13 82-09-16	19.61 25.15
294144081341801	94113401 09S27E-- 41-34-4 HAZEL MURPHEY		29 41 44	081 34 18	01	82-05-13 82-09-16	13.70 20.30
294210081324006	94213201 09S27E-- 42-32-6 HASTINGS		29 42 10	081 32 40	06	82-05-13 82-09-16	14.20 21.00
294308082002201	DRAINAGE WELL SWAN LK NR MELROSE FL		29 43 08	082 00 22	01	82-05-12 82-09-16	86.38 85.86
294356081525801	94315201 09S24E10 W9 1593		29 43 56	081 52 58	01	82-05-12 82-09-15	75.84 77.53
294411081314101	94413101 09S27E12 HASTINGS 34		29 44 11	081 31 41	01	82-05-13 82-09-16	17.00 24.30
294441081442903	94414403 09S26E06		29 44 41	081 44 29	03	82-05-13 82-09-15	55.78 57.63
294449081573301	94415701 09S23E01 PROGRESS LEAGUE WELL		29 44 49	081 57 33	01	82-05-12 82-09-15	80.70 83.34
294515081314001	*SJ* P10 08S27E36 FEDERAL POINT	RIVERDALE	29 45 15	081 31 40	01	82-05-13 82-09-16	20.30 26.50
294553081344301	94513401 08S27E-- RIVERDALE NO 61		29 45 53	081 34 43	01	82-05-13 82-09-15	25.40 28.80
294557081382601	94513802 08S26E30 BOSTWICK#2		29 45 57	081 38 26	01	82-05-13 82-09-15	30.35 30.74
294814081345201	94813401 08S27E15 ART RIEGEL		29 48 14	081 34 52	01	82-05-13 82-09-15	27.00 32.30

KEY TO SITE LOCATIONS ON FIGURE 22
ST. JOHNS COUNTY

Index number	Site number	Page number
1	293729081221201	165
2	294120081292001	165
3	295502081175401	166
4	295713081203401	166
5	295849081261401	*
6	300717081381001	167
7	300758081230501	167

*Well discontinued September 30, 1981. Water levels are published in the section of this report entitled MISCELLANEOUS WATER LEVEL MEASUREMENTS.

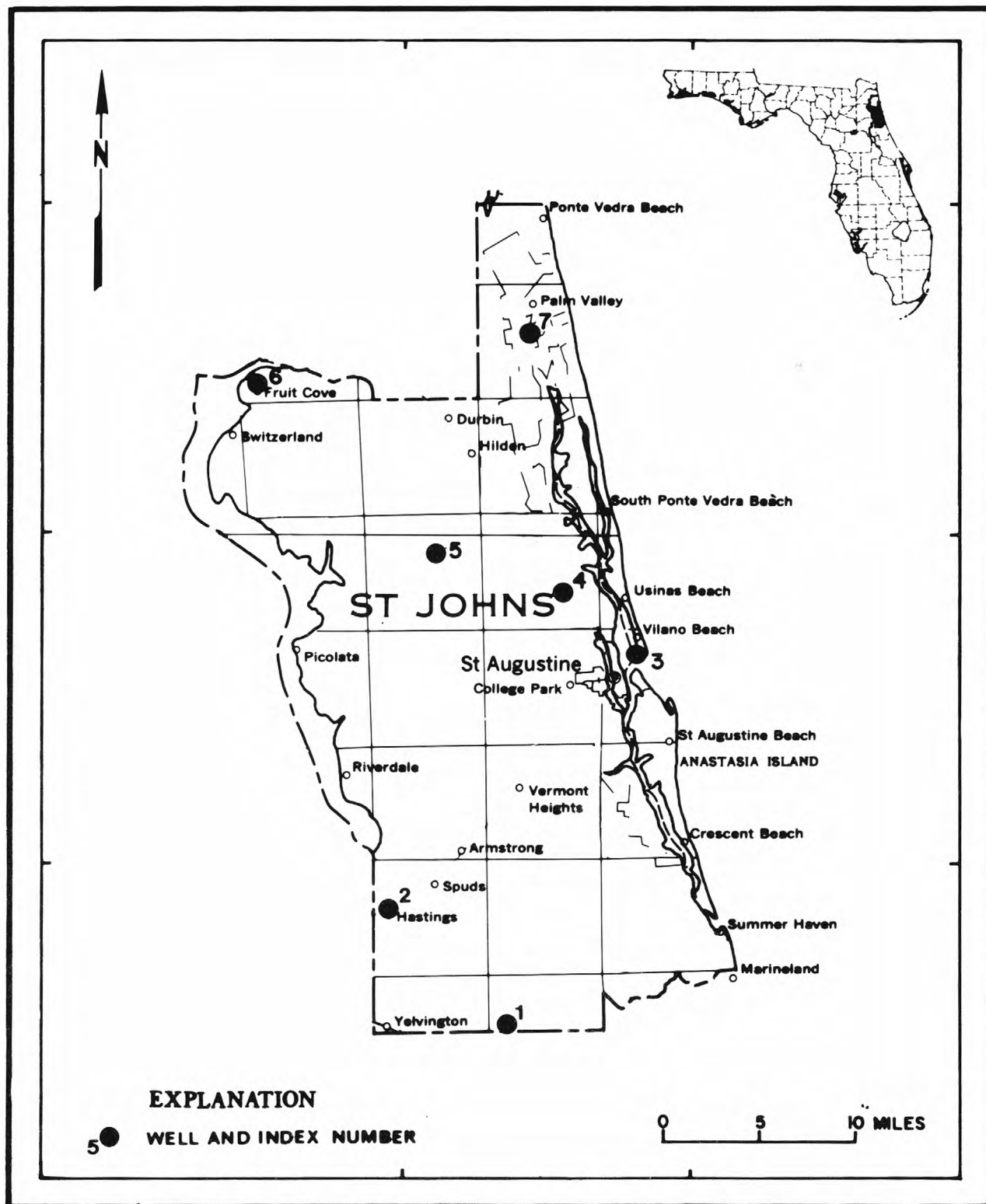


FIGURE 22. LOCATION OF WELLS IN ST. JOHNS COUNTY.

ST. JOHNS COUNTY

WELL NUMBER.--293729081221201. Local Number St. Johns 937-122-1. Fla. Department of Transportation Well near Hastings, FL.

LOCATION.--Lat 29°37'29", long 81°22'12", in SW¼SW¼ sec.15, T.10 S., R.29 E., Hydrologic Unit 03080103, on Old Dixie Highway, 50 ft (15 m) north of Flagler-St. Johns County line, and 12 mi (19 km) southeast of Hastings.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in (15 cm), depth 622 ft (190 m), cased to 142 ft (43 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of recorder shelf, 4.17 ft (1.27 m) above land-surface datum.

DATUM.--Land-surface datum is 37.93 ft (11.56 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--November 1958 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, 22.34 ft (6.81 m) NGVD, Sept. 11, 1960; lowest, 11.46 ft (3.49 m) NGVD, May 18, 1981.

WATER LEVEL, IN FEET, BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	23.12	22.57	22.77	22.98	22.88	23.09	22.78	22.97	22.45	21.70	20.97	20.70
10	23.10	22.57	22.68	22.81	22.69	22.85	23.20	23.40	22.36	21.58	21.03	20.50
15	22.91	22.30	22.69	22.84	22.66	22.58	22.66	23.69	22.26	21.51	20.85	20.47
20	23.18	22.29	23.14	23.03	22.35	23.64	22.44	23.75	22.09	21.32	20.89	20.38
25	23.12	22.43	23.30	22.83	22.45	23.64	23.26	23.36	22.03	21.32	20.77	20.28
EOM	22.90	22.50	22.85	22.82	22.42	23.00	22.90	22.73	21.81	21.19	20.77	20.23
MIN	22.89	22.23	22.46	22.51	22.15	22.46	22.43	22.72	21.75	21.14	20.75	20.18
WTR YR 1982	MEAN	22.36	HIGH	20.18	SEP 26	LOW	24.06	MAR 22				

WELL NUMBER.--294120081292001. Local Number St. Johns 941-129-7. D. A. Reid Well near Hastings, FL.

LOCATION.--Lat 29°41'20", long 81°29'20", in SW¼NW¼SW¼ sec. 28, T.9 S., R.28 E., Hydrologic Unit 03080103, in a field on south side of State Highway 13, 2.4 mi (3.9 km) southeast of intersection of State Highways 207 and 13 at Hastings.

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

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 6 in (15 cm), depth 541 ft (165 m), cased to 118 ft (36 m).

INSTRUMENTATION.--Pressure gage or tape measured. Measuring point: Top of 6 in (15 cm) tee, 1.00 ft (0.30 m) above land-surface datum.

DATUM.--Land-surface datum is 12.93 ft (3.94 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--1955-56 (annually), 1957-63 (bimonthly), 1964-69 (annually), 1970 to current year (bimonthly). 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, 24.33 ft (7.42 m) NGVD, Sept. 15, 1960; lowest measured, 1.42 ft (0.43 m) NGVD, May 1, 1968.

ELEVATION, IN FEET, NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 09...	1200	15.33	MAY 11...	1305	6.23
JAN 07...	1310	15.33	JUN 10...	1230	15.43
MAR 03...	1340	8.22	JUL 28...	1140	17.53
APR 21...	1155	9.41			

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

ST. JOHNS COUNTY

WELL NUMBER.--295502081175401. Local Number SJ-91. P. J. Mancy Well near St. Augustine, FL.

LOCATION.--Lat 29°55'02", long 81°17'54", in NE¼NE¼NE¼ sec.8., T.7 S., R.30 E., Hydrologic Unit 03080201, 150 ft (46 m) north of State Highway A1A, 150 ft (46 m) east of Vilano Beach Bridge, and 2.5 mi (4.0 km) northeast of St. Augustine.

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

WELL CHARACTERISTICS.--Drilled, domestic, artesian well, diameter 6 in (15 cm), depth 198 ft (60 m), cased to 195 ft (59 m).

INSTRUMENTATION.--Pressure gage. Measuring point: Top of 6 in (15 cm) tee, 2.70 ft (0.82 m) above land-surface datum.

DATUM.--Land-surface datum is 5.09 ft (1.55 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--May 1977 to September 1980 (semiannually), May 1981 to current year (monthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.20 ft (8.90 m) NGVD, May 13, 1980; lowest measured, 17.50 ft (5.33 m) NGVD, May 6, 1981.

ELEVATION, IN FEET, NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV			MAY		
03...	1055	25.10	12...	1230	21.90
DEC			JUN		
01...	0900	24.50	28...	1240	24.00
JAN			JUL		
04...	1230	24.60	29...	0945	23.30
FEB			AUG		
01...	1100	23.90	26...	1010	24.50
MAR			SEP		
02...	1120	24.10	13...	0945	24.50
APR					
29...	1115	23.60			

WELL NUMBER.--295713081203401. Local Number SJ-89. Airport Well near St. Augustine, FL.

LOCATION.--Lat 29°57'13", long 81°20'34", in land grant 50, T.6 S., R.29E., Hydrologic Unit 03080201, in pumphouse at St. Augustine Airport on U.S. Highway 1, 2.5 mi (4.0 km) north of St. Augustine.

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

WELL CHARACTERISTICS.--Drilled, domestic, artesian well, diameter 4 in (10 cm), depth 350 ft (107 m), cased to 190 ft (58 m).

INSTRUMENTATION.--Pressure gage. Measuring point: Top of 4 in (10 cm) tee at land-surface datum.

DATUM.--Altitude of land-surface datum is 10 ft (3 m), from topographic map.

PERIOD OF RECORD.--1978 to 1980 (annually), May 1981 to current year (monthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.30 ft (7.10 m) above land-surface datum Sept. 13, 1982; lowest measured, 16.00 ft (4.88 m) above land-surface datum May 6, 1981.

WATER LEVEL, IN FEET, BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)
NOV			APR		
03...	1040	-20.00	29...	1230	-20.40
DEC			MAY		
01...	0945	-20.00	12...	1145	-17.30
JAN			JUN		
04...	1250	-19.80	28...	1230	-19.70
FEB			JUL		
01...	1140	-19.50	29...	1015	-20.80
MAR			AUG		
02...	1215	-19.60	26...	1040	-20.90
31...	1145	-19.10			

ST. JOHNS COUNTY

WELL NUMBER.--300717081381001. Local Number SJ-15. S. L. Chavez Well near Mandarin, FL.

LOCATION.--Lat 30°07'17", long 81°38'10", in NE¼SW¼SW¼ sec. 30, T.4 S., R.27 E., Hydrologic Unit 03080103, on the north side of Fruit Cove Road, 0.6 mi (1.0 km) west of the intersection of State Highway 13 and Fruit Cove Road, 3.7 mi (6.0 km) south of Mandarin Post Office.

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

WELL CHARACTERISTICS.--Drilled, domestic, artesian well, diameter 3 in (8 cm), depth 580 ft (177 m).

INSTRUMENTATION.--Pressure gage. Measuring point: Top of 3 in (8 cm) tee, 1.20 ft (0.37 m) above land-surface datum.

DATUM.--Altitude of land-surface datum is 8.0 ft (2.44 m), from topographic map.

PERIOD OF RECORD.--1974, 1977 to 1980 (semiannually), May 1981 to current year (monthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.90 ft (10.03 m) above land-surface datum, May 12, 1980; lowest measured, 21.30 ft (6.49 m) above land-surface datum, May 6, 1981.

WATER LEVEL, IN FEET, BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)
NOV			APR		
03...	1040	-26.20	27...	1440	-27.00
DEC			JUN		
01...	1010	-26.00	28...	1150	-26.20
JAN			JUL		
04...	1120	-26.50	29...	1310	-27.10
FEB			AUG		
01...	1110	-26.60	25...	1340	-27.90
MAR					
01...	1330	-26.60			
31...	1220	-26.40			

WELL NUMBER.--300758081230501. Local Number SJ-5. G. Oesterreicher Well near Palm Valley, FL.

LOCATION.--Lat 30°07'58", long 81°23'05", in land grant 54, T.4 S., R.29 E., Hydrologic Unit 03080201, 100 ft (30 m) east of the Intracoastal Waterway, 250 ft (76 m) northwest of State Highways 210 and 210A, and 2.8 mi (4.5 km) south of Palm Valley.

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

WELL CHARACTERISTICS.--Drilled, domestic, artesian well, diameter 6 in (15 cm), depth 350 ft (107 m), cased to 180 ft (55 m).

INSTRUMENTATION.--Pressure gage. Measuring point: Faucet at northwest corner of pumphouse, 3.50 ft (1.07 m) above land-surface datum.

DATUM.--Land-surface datum is 4.53 ft (1.38 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--1934, 1940, 1944 to 1946 (annually) 1947 to 1963 (bimonthly), 1964 to 1980 (annually), May 1981 to current year (monthly). Records of water levels prior to 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 50.73 ft (15.46 m) NGVD, Nov. 9, 1948; lowest measured, 30.13 ft (9.18 m) NGVD, June 29, 1981.

ELEVATION, IN FEET, NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV			APR		
03...	1010	35.53	29...	1040	35.10
DEC			JUN		
01...	0835	34.93	28...	1400	35.53
JAN			JUL		
04...	1315	35.43	29...	0915	35.73
FEB			AUG		
01...	1025	35.30	24...	1035	35.93
MAR					
02...	1050	35.13			
31...	1030	35.03			

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1981 TO SEPTEMBER 1982

ST. JOHNS COUNTY

STATION NUMBER	STATION NAME	LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF MEASUREMENT	ELEVATION ABOVE NGVD (FEET)
293729081221201	93712201 10S29E15 33-	29 37 29	081 22 12	01	82-05-11 82-09-14	14.41 17.33
294334081270801	SJ-84 943-127 SPUDS QUAD 76	29 43 34	081 27 08	01	82-05-11	14.01
294602081151901	SJ-94 946-115-1 ST AUG BCH QUAD 3	29 46 02	081 15 19	01	82-05-12 82-09-13	11.80 12.90
294702081263201	94712601 08S28E25 11-	29 47 02	081 26 32	01	82-05-12 82-09-14	14.09 28.06
294855081324801	SJ-81 948-132 RIVERDALE QUAD 22	29 48 55	081 32 48	01	82-05-11 82-09-14	19.30 22.40
294927081161601	SJ-93 949-116-1 ST AUG BCH QUAD 2	29 49 27	081 16 16	01	82-09-22	15.90
294927081192501	SJ-97	29 49 27	081 19 25	01	82-05-12 82-09-13	23.30 25.70
295040081333201	SJ-80 950-133 RIVERDALE QUAD 54	29 50 40	081 33 32	01	82-05-11 82-09-14	23.10 33.00
295132081164801	SJ-92 951-116-1 ST AUG BCH QUAD 1	29 51 32	081 16 48	01	82-05-12 82-09-13	16.40 19.90
295333081191401	SJ-90 953-119-1 ST AUGUSTINE QUAD 2	29 53 33	081 19 14	01	82-05-12 82-09-13	17.40 22.20
295341081263705	SJ-112E SEC 13-520	29 53 41	081 26 37	05	82-05-11 82-09-14	26.92 31.72
295357081294301	SJ-77 BAKERSVILLE QUAD 50	29 53 57	081 29 43	01	82-05-11 82-09-14	25.20 31.50
295556081342101	SJ-19	29 55 56	081 34 21	01	82-05-11 82-09-14	27.10 35.00
295906081334501	SJ-11	29 59 06	081 33 45	01	82-05-11	26.90
300019081363301	SJ-3	30 00 19	081 36 33	01	82-05-11 82-09-14	24.80 28.70
300036081213501	SJ-88 000-121-1 SOUTH PONTE VEDRA BCH 1	30 00 36	081 21 35	01	82-05-12 82-09-13	32.30 35.20
300307081234201	SJ-99	30 03 07	081 23 42	01	82-05-12 82-09-13	38.10 40.50
300322081342801	SJ-24	30 03 22	081 34 28	01	82-05-11 82-09-14	34.35 37.03
300341081395401	SJ-12	30 03 41	081 39 54	01	82-05-11 82-09-14	32.90 35.90
300354081301201	SJ-26	30 03 54	081 30 12	01	82-05-11 82-09-13	37.00 39.90
300632081334301	SJ-27	30 06 32	081 33 43	01	82-05-11 82-09-13	37.20 39.80
301005081225901	SJ-55	30 10 05	081 22 59	01	82-05-12 82-09-13	13.10 13.40
301037081243901	SJ-10	30 10 37	081 24 39	01	82-05-14 82-09-16	29.30 32.80
301212081252401	SJ-63	30 12 12	081 25 24	01	82-05-14 82-09-16	38.90 41.50
301249081225801	SJ-122	30 12 49	081 22 58	01	82-09-13	30.05
301408081253101	SJ-60	30 14 08	081 25 31	01	82-05-14 82-09-16	31.20 34.00
301411081224201	SJ-47	30 14 11	081 22 42	01	82-05-12 82-09-13	29.80 30.20
301458081230301	SJ-48	30 14 58	081 23 03	01	82-05-12 82-09-13	32.00 32.10

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

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ST. JOHNS COUNTY

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS) (90095)	PH LAB (STAND- ARD UNITS) (00403)	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)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)
295221081252801 - SJ-120 TILLMAN 13 (LAT 29 52 21 LONG 081 25 28)												
DEC , 1981												
21...	0950	590	539	7.9	--	--	--	--	1.0	9.6	--	--
FEB , 1982												
17...	1355	570	554	7.7	--	--	--	--	1.6	9.2	--	--
APR												
28...	1150	575	559	7.5	--	--	--	--	2.0	15	--	--
SEP												
22...	1200	560	553	7.7	--	--	--	--	2.0	11	--	--
295223081251301 - SJ-121 TILLMAN 14 (LAT 29 52 23 LONG 081 25 13)												
DEC , 1981												
21...	1100	580	553	7.7	--	--	--	--	1.0	10	--	--
FEB , 1982												
17...	1340	545	537	7.7	--	--	--	--	.7	9.3	--	--
APR												
28...	1130	555	541	7.5	--	--	--	--	2.0	13	--	--
SEP												
22...	1100	530	525	8.1	--	--	--	--	2.0	11	--	--
295233081252501 - SJ-118 TILLMAN 11 (LAT 29 52 33 LONG 081 25 25)												
DEC , 1981												
21...	1025	600	580	7.7	117	1.6	12	.4	1.0	12	.2	15
FEB , 1982												
17...	1405	600	589	7.5	--	--	--	--	.5	11	--	--
APR												
28...	1205	595	586	7.5	--	--	--	--	5.0	13	--	--
SEP												
22...	1030	580	566	7.9	--	--	--	--	2.0	11	--	--
295248081250501 - SJ-117 TILLMAN 9 (LAT 29 52 48 LONG 081 25 05)												
DEC , 1981												
21...	1050	630	599	7.7	--	--	--	--	.4	12	--	--
FEB , 1982												
17...	1422	610	621	7.5	--	--	--	--	1.2	12	--	--
APR												
28...	1225	625	614	7.4	--	--	--	--	4.0	14	--	--
SEP												
22...	1000	590	573	7.9	--	--	--	--	2.0	12	--	--
295305081250601 - SJ-119 TILLMAN 12 (LAT 29 53 05 LONG 081 25 06)												
DEC , 1981												
21...	1040	590	560	7.7	108	2.6	15	.9	1.0	13	.2	30
FEB , 1982												
17...	1416	570	569	7.5	--	--	--	--	1.2	12	--	--
APR												
28...	1240	570	557	7.4	--	--	--	--	3.0	15	--	--
SEP												
22...	1130	540	533	7.9	--	--	--	--	2.0	12	--	--

WATER RESOURCES DATA FOR FLORIDA, 1982
Volume 1B: Northeast Florida

KEY TO SITE LOCATIONS ON FIGURE 23
SEMINOLE COUNTY

Index number	Site number	Page number
1	284147081220201	172
2	284750081132301	172

WATER RESOURCES DATA FOR FLORIDA, 1982
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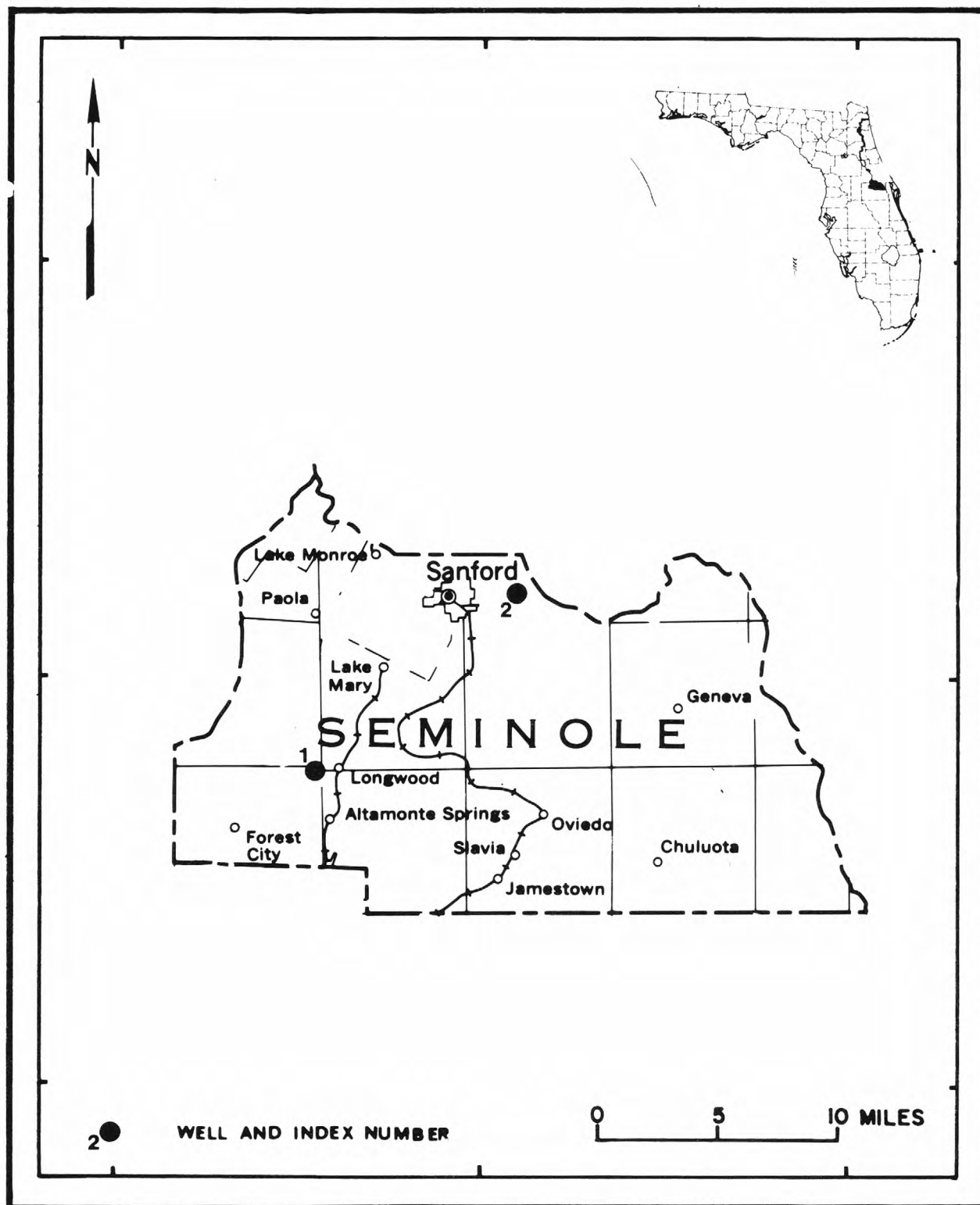


FIGURE 23. LOCATION OF WELLS IN SEMINOLE COUNTY.

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

SEMINOLE COUNTY

WELL NUMBER.--284147081220201. Local Number 841-121-01. USGS Observation Well SEM125 at Longwood, FL.

LOCATION.--Lat 28°41'47", long 81°22'02", in NW¼NE¼ sec.1, T.21 S., R.29 E., Hydrologic Unit 03080101, 500 ft (152 m) south of State Highway 434, at a point 1.3 mi (2.1 km) west of State Highway 427 in Longwood.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in (15 cm), depth 146 ft (44 m), cased to 63 ft (19 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of recorder shelf, 3.00 ft (0.91 m) above land-surface datum.

DATUM.--Land-surface datum is 85.69 ft (26.12 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--October 1951 to September 1952 (monthly); November 1952 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, 55.80 ft (17.01 m) NGVD, Sept. 30, 1960; lowest, 35.83 ft (10.92 m) NGVD, June 19, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	38.85	39.91	39.35	39.91	39.97	39.72	39.80	41.06	41.51	---	---	42.59
10	38.72	39.86	39.17	39.84	40.11	40.55	41.01	40.41	40.02	---	---	44.28
15	39.40	39.88	39.25	39.92	40.30	39.69	41.37	39.68	39.74	41.28	---	44.14
20	38.94	39.60	38.90	39.92	40.33	39.26	40.99	39.10	42.25	42.47	---	43.00
25	38.94	39.39	38.90	39.99	---	39.50	---	40.29	42.50	42.81	---	43.89
EOM	39.37	39.13	39.89	39.80	---	40.53	41.52	41.38	---	42.79	43.42	44.22
MAX	39.50	40.09	39.89	40.13	40.54	40.55	41.73	41.73	42.71	43.29	43.42	44.50
WTR YR 1982	MEAN	40.55	MAX	44.50	SEP 11	MIN	38.38	OCT	6			

WELL NUMBER.--284750081132301. Local Number 847-113-06. Observation Well Seminole 257 near Sanford, FL.

LOCATION.--Lat 28°47'50", Long 81°13'23", in NE¼SE¼NW¼ sec.33, T.19 S., R.31 E., Hydrologic Unit 03080101, on west side of Beardall Avenue, 0.3 mi (0.5 km) north of State Highway 46, and 3 mi (5 km) east of Sanford.

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

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 6 in (15 cm), depth 206 ft (63 m), casing length unknown.

INSTRUMENTATION.--Tape measured. Measuring point: Top of casing, 7.00 ft (2.13 m) above land-surface datum.

DATUM.--Land-surface datum is 18.61 ft (5.67 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--December 1951 to current year (bimonthly). 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, 26.45 ft (8.06 m) NGVD, Oct. 10, 1953; lowest measured, 16.66 ft (5.08 m) NGVD, May 18, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAR		
07...	0905	19.19	25...	1305	19.71
DEC			MAY		
07...	0845	19.50	11...	1015	20.27
FEB			SEP		
02...	1345	19.86	17...	0935	22.49

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1981 TO SEPTEMBER 1982

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SEMINOLE COUNTY

STATION NUMBER	STATION NAME	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF MEASURE- MENT	ELEV- ATION ABOVE NGVD (FEET)
283717081194201	83711906 21S30E33	28 37 17	081 19 42	01	82-05-13	45.22
283740081031401	83710302 21S33E30	28 37 40	081 03 14	01	82-05-12 82-09-15	26.30 28.18
283754081154301	83711502 21S31E30	28 37 54	081 15 43	01	82-05-13 82-09-15	43.01 47.88
283806081123701	83811204 21S31E27	28 38 06	081 12 37	01	82-05-13 82-09-15	36.20 39.41
283843081075501	83810706 21S32E20	28 38 43	081 07 55	01	82-05-12 82-09-15	30.16 32.30
283849081273401	83812702 21S29E19 113 ECOLOGICAL UTILITIES	28 38 49	081 27 34	01	82-05-11 82-09-16	47.36 52.97
283901081135901	83811401 21S31E20	28 39 01	081 13 59	01	82-05-13 82-09-15	36.56 40.28
283920081232501	83912302 21S29E14 SPANISH TRACE APTS	28 39 20	081 23 25	01	82-05-12 82-09-16	42.16 47.44
283937081190301	83911903 21S30E16	28 39 37	081 19 03	01	82-05-12 82-09-15	43.70 48.68
283945081071901	83910702 21S32E16	28 39 45	081 07 19	01	82-05-12 82-09-15	24.40 26.05
283956081040201	83910402 21S32E13	28 39 56	081 04 02	01	82-05-12 82-09-15	15.28 17.14
283958081203401	84012002 21S30E17	28 39 58	081 20 34	01	82-05-12 82-09-15	46.99 52.27
284012081264601	84012603 21S29E07	28 40 12	081 26 46	01	82-09-16	49.70
284014081264901	84012602 21S29E07	28 40 14	081 26 49	01	82-05-11	43.00
284023081241001	84012403 21S29E10	28 40 23	081 24 10	01	82-05-11 82-09-16	34.44 36.34
284025081123001	84011201 21S31E10	28 40 25	081 12 30	01	82-05-12 82-09-15	33.93 36.61
284043081054401	84010501 YARBOROUGH HUNT CAMP WELL NR GENEVA, FL	28 40 43	081 05 44	01	82-02-04	14.10
284112081065001	84110601 21S32E03	28 41 12	081 06 50	01	82-05-12 82-09-15	17.21 19.28
284120081152201	84111501 21S31E06	28 41 20	081 15 22	01	82-05-12 82-09-15	37.90 42.48
284123081261301	84112601 21S29E05	28 41 23	081 26 13	01	82-05-11 82-09-16	42.28 47.63
284125081131701	84111301 21S31E04	28 41 25	081 13 17	01	82-05-12 82-09-15	30.40 33.20
284207081111001	SOISTMAN BLACK HAMMOCK	28 42 07	081 11 10	01	81-10-15	24.90
284207081111601	SOISTMAN T WELL ELM ST BK HAMMOCK NR OVIEDO, FL.	28 42 07	081 11 16	01	81-11-23	22.30
284207081174401	84211703 20S30E35	28 42 07	081 17 44	01	82-05-12 82-09-15	33.21 36.49
284217081023001	KILBEE #3 TEST NR ST JOHNS RIVER NR GENEVA, FL	28 42 17	081 02 30	01	82-05-11 82-09-10	8.34 10.29
284231081160801	84211604 20S30E36	28 42 31	081 16 08	01	82-05-12 82-09-15	34.61 38.01
284233081113301	84211110 20S31E35	28 42 33	081 11 33	01	82-09-15	25.80
284244081073501	84210702 20S32E33 BUCK LAKE WELL	28 42 44	081 07 35	01	82-05-12 82-09-17	17.73 20.18
284244081234901	84212302 20S29E34	28 42 44	081 23 49	01	82-05-10 82-09-16	34.30 38.80
284310081101901	84311001 20S31E25	28 43 10	081 10 19	01	82-05-12 82-09-15	18.31 21.42

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1981 TO SEPTEMBER 1982

SEMINOLE COUNTY--Continued

STATION NUMBER	STATION NAME	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF MEASURE- MENT	ELEV- ATION ABOVE NGVD (FEET)
284316081195201	84311905 20S30E29	28 43 16	081 19 52	01	82-05-10	37.51
284317081213401	MARTIN MARIETTA	28 43 17	081 21 34	01	82-05-10	36.53
284331081031001	84310302 20S33E30	28 43 31	081 03 10	01	82-05-11 82-09-15	10.62 12.59
284356081065801	84310606 20S32E21	28 43 56	081 06 58	01	82-05-11 82-09-17	16.95 19.51
284403081165101	84411601 20S30E24	28 44 03	081 16 51	01	82-05-11 82-09-17	28.05 30.83
284428081072602	USGS AVENUE C 1.25" INNER MONITOR AT GENEVA	28 44 28	081 07 26	02	82-05-12 82-09-17	13.29 15.61
284428081072603	USGS AVENUE C 6" ANNULAR MONITOR AT GENEVA	28 44 28	081 07 26	03	82-01-26 82-05-12 82-09-17	11.68 13.25 15.76
284428081155201	LARGENT WELL SANFORD AVE	28 44 28	081 15 52	01	82-05-11 82-09-17	25.90 29.75
284434081050101	84410503 POT MAP WELL NR LK HARNEY, GENEVA, FL.	28 44 34	081 05 01	01	82-01-27 82-05-11 82-09-17	12.62 13.06 15.03
284435081225801	84412201 20S29E14	28 44 35	081 22 58	01	82-05-10 82-09-16	34.92 37.27
284440081175901	84411722 20S30E15	28 44 40	081 17 59	01	82-05-10 82-09-16	34.79 37.36
284532081190501	84511905 20S30E09	28 45 32	081 19 05	01	82-05-10 82-09-16	36.42 39.19
284533081204801	84512005 20S30E08	28 45 33	081 20 48	01	82-05-10 82-09-16	34.80 37.07
284550081071501	84510703 CAMERON WELL NR GENEVA, FL.	28 45 50	081 07 15	01	82-05-11 82-09-17	11.51 13.89
284618081095401	84610902 20S31E12	28 46 18	081 09 54	01	82-05-11 82-09-17	13.19 14.90
284624081123501	84611202 20S31E03	28 46 24	081 12 35	01	82-09-17	22.18
284626081051801	K RD TEST WELL OSCEOLA RD NR GENEVA, FL.	28 46 26	081 05 18	01	82-05-11 82-09-10	12.65 14.07
284626081132001	84611305 20S31E04	28 46 26	081 13 20	01	82-05-11	17.37
284645081152401	84611515 20S31E06	28 46 45	081 15 24	01	82-05-11 82-09-17	30.26 32.59
284646081230701	84612302 20S29E02	28 46 46	081 23 07	01	82-05-10 82-09-16	34.55 36.84
284651081193301	84611902 20S30E04	28 46 51	081 19 33	01	82-05-10 82-09-16	32.01 33.79
284706081070801	84710703 THRASHER PASTURE WELL NR GENEVA, FL	28 47 06	081 07 08	01	82-05-11 82-09-17	9.18 11.55
284712081044301	84710401 CO. LANDFILL OSCEOLA RD NR GENEVA, FL.	28 47 12	081 04 43	01	82-03-10 82-05-11 82-09-17	9.71 10.23 11.98
284802081192701	WELL JORDAN BAPTIST UPSALA RD	28 48 02	081 19 27	01	82-05-10 82-09-16	27.37 33.78
284802081211101	84812106 19S30E31	28 48 02	081 21 11	01	82-05-10 82-09-16	31.68 34.32
284802081242101	VIA HERMOSA WELL	28 48 02	081 24 21	01	82-05-10 82-09-16	25.42 26.81
284909081052101	84910501 19S32E23	28 49 09	081 05 21	01	82-05-11 82-09-17	8.49 10.72
284945081244201	84912407 19S29E39	28 49 45	081 24 42	01	82-05-10 82-09-16	14.67 15.05

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1981 TO SEPTEMBER 1982

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SEMINOLE COUNTY--Continued

STATION NUMBER	STATION NAME	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF MEASURE- MENT	ELEV- ATION ABOVE NGVD (FEET)
284954081201101	ANDERSON WELL MISSOURI ST	28 49 54	081 20 11	01	82-05-10 82-09-16	26.15 29.10
285002081215101	85012101 19S29E38 STEVE CAIN	28 50 02	081 21 51	01	82-05-10 82-09-16	25.51 28.26

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

SEMINOLE COUNTY

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT) (72016)	DEPTH TO TOP OF SAMPLE INTER- VAL (FT) (72015)	DEPTH OF HOLE, TOTAL (FEET) (72001)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS) (90095)	PH (STAND- ARD UNITS) (00400)	PH LAB (STAND- ARD UNITS) (00403)	TEMPER- ATURE (DEG C) (00010)	HARD- NESS (MG/L AS CACO3) (00900)	
284043081054401 - 84010501 YARBOROUGH HUNT CAMP WELL NR GENEVA, FL (LAT 28 40 43 LONG 081 05 44)												
FEB , 1982	04...	1300	--	--	--	8450	7330	7.3	7.5	22.5	901	
284111081063401 - 84110602 YARBOROUGH SECT. 3 WELL NR GENEVA, FL. (LAT 28 41 11 LONG 081 06 34)												
FEB , 1982	04...	1530	--	--	--	550	553	7.0	7.4	21.5	250	
284127081090501 - PATTERSON WELL C426 NR OVIEDO, FL. (LAT 28 41 27 LONG 081 09 05)												
FEB , 1982	01...	1500	--	--	--	6800	6330	7.2	7.9	22.0	794	
284133081085501 - MCNAIR WELL C426 NR OVIEDO, FL. (LAT 28 41 33 LONG 081 08 55)												
FEB , 1982	01...	1535	--	--	--	6800	6160	7.3	7.7	22.5	753	
284146081092201 - NORMAN WELL WALSH ST NR OVIEDO, FL. (LAT 28 41 46 LONG 081 09 22)												
FEB , 1982	01...	1550	--	--	--	7500	6800	7.4	7.7	22.5	835	
284150081084601 - COLEMAN DEEP WELL GENOVA WOODS NR GENEVA, FL. (LAT 28 41 50 LONG 081 08 46)												
DEC , 1981	09...	1045	155	--	--	7600	7120	7.1	7.7	22.5	985	
284152081084801 - COLEMAN SHALLOW GENOVA WOODS NR GENEVA (LAT 28 41 52 LONG 081 08 48)												
FEB , 1982	01...	1320	--	--	--	695	697	7.0	7.7	22.5	197	
284207081111601 - SOISTMAN T WELL ELM ST BK HAMMOCK NR OVIEDO, FL. (LAT 28 42 07 LONG 081 11 16)												
NOV , 1981	09...	1400	--	84	76	84	5000	4754	6.8	7.7	24.5	637
	12...	1300	--	205	76	205	5200	4919	7.0	7.6	24.5	625
	23...	1430	200	--	--	205	4750	--	6.3	--	24.5	--
284208081061301 - 84210603 YARBOROUGH SOD FARM W. NR GENEVA, FL. (LAT 28 42 08 LONG 081 06 13)												
JAN , 1982	28...	1550	--	--	--	425	412	7.0	8.6	22.5	196	
284210081065601 - SNOW HILL MOBILE HOME WELL NR. GENEVA, FL. (LAT 28 42 10 LONG 081 06 56)												
JAN , 1982	26...	1450	--	--	--	340	320	7.0	7.8	20.5	144	

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

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SEMINOLE COUNTY--Continued

DATE	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)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	SULFIDE TOTAL (MG/L AS S) (00745)	SULFITE DIS- SOLVED (MG/L AS SO3) (00740)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
284043081054401 - 84010501 YARBOROUGH HUNT CAMP WELL NR GENEVA, FL (LAT 28 40 43 LONG 081 05 44)										
FEB , 1982 04...	130	140	1600	47	208	<.5	--	330	2400	60
284111081063401 - 84110602 YARBOROUGH SECT. 3 WELL NR GENEVA, FL. (LAT 28 41 11 LONG 081 06 34)										
FEB , 1982 04...	82	11	20	2.2	260	<.5	--	2.5	21	440
284127081090501 - PATTERSON WELL C426 NR OVIEDO, FL. (LAT 28 41 27 LONG 081 09 05)										
FEB , 1982 01...	120	120	1300	36	138	<.5	--	320	2000	1300
284133081085501 - MCNAIR WELL C426 NR OVIEDO, FL. (LAT 28 41 33 LONG 081 08 55)										
FEB , 1982 01...	120	110	1100	35	136	<.5	--	320	2000	170
284146081092201 - NORMAN WELL WALSH ST NR OVIEDO, FL. (LAT 28 41 46 LONG 081 09 22)										
FEB , 1982 01...	120	130	1300	39	139	<.5	--	350	2200	30
284150081084601 - COLEMAN DEEP WELL GENOVA WOODS NR GENEVA, FL. (LAT 28 41 50 LONG 081 08 46)										
DEC , 1981 09...	180	130	1300	41	--	<.5	--	310	2200	430
284152081084801 - COLEMAN SHALLOW GENOVA WOODS NR GENEVA (LAT 28 41 52 LONG 081 08 48)										
FEB , 1982 01...	56	14	69	4.9	184	<.5	--	14	88	2500
284207081111601 - SOISTMAN T WELL ELM ST BK HAMMOCK NR OVIEDO, FL. (LAT 28 42 07 LONG 081 11 16)										
NOV , 1981 09...	120	82	730	20	140	3.4	--	190	1500	70
12...	110	85	770	23	140	2.8	--	200	1500	20
23...	--	--	--	--	--	--	--	--	1340	--
284208081061301 - 84210603 YARBOROUGH SOD FARM W. NR GENEVA, FL. (LAT 28 42 08 LONG 081 06 13)										
JAN , 1982 28...	74	2.6	9.2	1.1	201	<.5	--	.4	12	1100
284210081065601 - SNOW HILL MOBILE HOME WELL NR. GENEVA, FL. (LAT 28 42 10 LONG 081 06 56)										
JAN , 1982 26...	51	4.1	8.3	3.1	123	<.1	--	19	11	82

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

SEMINOLE COUNTY--Continued

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT) (72016)	DEPTH TO TOP OF SAMPLE INTER- VAL (FT) (72015)	DEPTH OF HOLE, TOTAL (FEET) (72001)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS) (90095)	PH (STAND- ARD UNITS) (00400)	PH LAB (STAND- ARD UNITS) (00403)	TEMPER- ATURE (DEG C) (00010)	HARD- NESS (MG/L AS CACO3) (00900)
284217081023001 - KILBEE #3 TEST NR ST JOHNS RIVER NR GENEVA, FL (LAT 28 42 17 LONG 081 02 30)											
FEB , 1982											
03...	1130	--	60	58	60	16500	13700	7.6	7.5	22.5	1909
08...	1330	--	155	58	155	16200	13500	7.4	7.3	22.0	1934
MAR											
01...	1400	154	--	--	155	15250	13200	--	7.5	--	--
284219081074001 - 84210701 LADD WELL C426 NR. GENEVA, FL. (LAT 28 42 19 LONG 081 07 40)											
JAN , 1982											
27...	1445	--	--	--	--	390	394	6.7	7.4	16.0	196
284233081045202 - KILBEE #2 TEST NR ST JOHNS RIVER NR GENEVA, FL (LAT 28 42 33 LONG 081 04 52)											
JAN , 1982											
18...	1330	--	110	107	110	3800	3620	6.9	7.8	22.5	405
19...	1115	--	137	107	137	3750	3670	7.4	8.0	23.0	422
MAR											
01...	1000	150	--	--	150	3750	3410	--	8.1	--	--
284243081053301 - 84210501 KILBEE RANCH COWPENS WELL NR GENEVA, FL (LAT 28 42 43 LONG 081 05 33)											
FEB , 1982											
01...	1400	--	--	--	--	425	418	6.8	7.4	21.5	199
284247081070801 - TEST WELL OLD MIMS AND C426 NR GENEVA, FL (LAT 28 42 47 LONG 081 07 08)											
JAN , 1982											
05...	1500	--	--	--	205	375	356	6.4	8.1	22.5	165
284300081045801 - 84310401 CONLEY WELL JUNGLE RD. GENEVA, FL. (LAT 28 43 00 LONG 081 04 58)											
JAN , 1982											
27...	1105	--	--	--	--	740	702	6.9	7.7	13.0	194
284312081045101 - JEPSON STORE SR46 NR GENEVA, FL. (LAT 28 43 12 LONG 081 04 51)											
JAN , 1982											
27...	1030	--	--	--	--	840	814	7.2	7.7	11.0	199
284319081044301 - 84310413 CAMMACK WELL SR46 NR. GENEVA, FL. (LAT 28 43 19 LONG 081 04 43)											
FEB , 1982											
08...	1020	--	--	--	--	2150	1830	7.2	7.6	21.5	292
284320081051201 - WILSON WELL SR46 NR GENEVA, FL. (LAT 28 43 20 LONG 081 05 12)											
JAN , 1982											
27...	1425	--	--	--	--	275	265	6.9	7.8	20.0	121

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

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SEMINOLE COUNTY--Continued

DATE	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)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	SULFIDE TOTAL (MG/L AS S) (00745)	SULFITE DIS- SOLVED (MG/L AS SO3) (00740)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
284217081023001 - KILBEE #3 TEST NR ST JOHNS RIVER NR GENEVA, FL (LAT 28 42 17 LONG 081 02 30)										
FEB , 1982										
03...	270	300	3000	110	157	1.2	--	840	5400	90
08...	280	300	2900	93	144	<.5	--	870	5100	320
MAR										
01...	--	--	--	--	--	--	--	--	5100	--
284219081074001 - 84210701 LADD WELL C426 NR. GENEVA, FL. (LAT 28 42 19 LONG 081 07 40)										
JAN , 1982										
27...	76	1.4	7.1	2.8	192	<.5	--	1.0	9.6	6600
284233081045202 - KILBEE #2 TEST NR ST JOHNS RIVER NR GENEVA, FL (LAT 28 42 33 LONG 081 04 52)										
JAN , 1982										
18...	73	54	630	26	241	2.6	--	200	980	60
19...	75	57	650	27	--	1.0	--	200	990	20
MAR										
01...	--	--	--	--	--	--	--	--	960	--
284243081053301 - 84210501 KILBEE RANCH COWPENS WELL NR GENEVA, FL (LAT 28 42 43 LONG 081 05 33)										
FEB , 1982										
01...	77	1.6	7.4	1.1	217	<.5	--	.6	8.7	3900
284247081070801 - TEST WELL OLD MIMS AND C426 NR GENEVA, FL (LAT 28 42 47 LONG 081 07 08)										
JAN , 1982										
05...	62	2.5	6.6	.6	164	--	--	2.5	13	24
284300081045801 - 84310401 CONLEY WELL JUNGLE RD. GENEVA, FL. (LAT 28 43 00 LONG 081 04 58)										
JAN , 1982										
27...	53	15	83	3.6	199	<.5	--	2.3	110	2400
284312081045101 - JEPSON STORE SR46 NR GENEVA, FL. (LAT 28 43 12 LONG 081 04 51)										
JAN , 1982										
27...	55	15	90	3.7	165	<.5	--	16	140	600
284319081044301 - 84310413 CAMMACK WELL SR46 NR. GENEVA, FL. (LAT 28 43 19 LONG 081 04 43)										
FEB , 1982										
08...	61	34	280	11	189	1.3	--	70	460	310
284320081051201 - WILSON WELL SR46 NR GENEVA, FL. (LAT 28 43 20 LONG 081 05 12)										
JAN , 1982										
27...	46	1.5	7.6	1.1	126	<.5	--	1.2	9.0	640

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

SEMINOLE COUNTY--Continued

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT) (72016)	DEPTH TO TOP OF SAMPLE INTER- VAL (FT) (72015)	DEPTH OF HOLE, TOTAL (FEET) (72001)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS) (90095)	PH (STAND- ARD UNITS) (00400)	PH LAB (STAND- ARD UNITS) (00403)	TEMPER- ATURE (DEG C) (00010)	HARD- NESS (MG/L AS CACO3) (00900)
284322081084301 - COCKRAN FOREST EAST TEST WELL NR GENEVA, FL. (LAT 28 43 22 LONG 081 08 43)											
DEC , 1981											
09...	1030	--	103	90	103	510	425	7.5	8.2	22.5	143
14...	1230	--	203	90	203	800	787	7.4	8.0	22.5	197
17...	1200	200	--	--	203	670	646	7.3	7.9	22.0	198
MAR , 1982											
02...	1145	--	203	90	203	560	828	--	--	--	--
284322081084401 - DAVIDSON SHALLOW WELL COCHRAN RD NR GENEVA, FL. (LAT 28 43 18 LONG 081 08 44)											
DEC , 1981											
17...	1245	--	--	--	--	525	522	7.3	7.7	22.0	162
284325081092701 - TEST WELL COCHRAN FOREST WEST NR GENEVA, FL. (LAT 28 43 25 LONG 081 09 27)											
NOV , 1981											
30...	1400	--	65	56	65	4500	4440	6.6	8.0	22.5	559
DEC											
02...	1030	--	165	56	165	4500	4380	6.4	7.6	22.0	534
MAR , 1982											
02...	1430	--	165	56	165	4500	1920	--	--	--	--
284325081092702 - COCHRAN FOREST WEST SHALLOW WELL NR GENEVA, FL. (LAT 28 43 25 LONG 081 09 27)											
DEC , 1981											
08...	--	37.0	--	--	--	4400	4210	6.4	7.8	22.0	470
284331081052401 - HILLSIDE SOD FARM SR 46 NR GENEVA, FL. (LAT 28 43 31 LONG 081 05 24)											
DEC , 1981											
08...	1530	--	--	--	--	390	278	7.1	8.0	22.5	124
284341081072601 - SEMINOLE WOODS WELL PINEHILL BLVD NR GENEVA, FL (LAT 28 43 41 LONG 081 07 26)											
FEB , 1982											
08...	0930	--	--	--	--	300	272	7.1	7.7	21.5	129
284409081070901 - BRADDY WELL NR GENEVA, FL. (LAT 28 44 09 LONG 081 07 09)											
JAN , 1982											
26...	1250	--	--	--	--	260	236	7.1	8.0	19.0	105
284411081065801 - YARBOROUGH HOME WELL NR. GENEVA, FL. (LAT 28 44 04 LONG 081 06 58)											
MAR , 1982											
03...	0900	--	--	--	--	260	1340	7.2	7.7	19.5	110
284431081084501 - COCHRAN WELL COCHRAN RD, FL. (LAT 28 44 31 LONG 081 08 45)											
JAN , 1982											
26...	1350	--	--	--	--	425	388	7.0	7.6	21.0	174
284434081050101 - 84410503 POT MAP WELL NR LK HARNEY, GENEVA, FL. (LAT 28 44 34 LONG 081 05 01)											
JAN , 1982											
27...	1145	--	--	--	--	1390	1330	7.3	7.5	20.5	249

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

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SEMINOLE COUNTY--Continued

DATE	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)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	SULFIDE TOTAL (MG/L AS S) (00745)	SULFITE DIS- SOLVED (MG/L AS SO3) (00740)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
284322081084301 - COCKRAN FOREST EAST TEST WELL NR GENEVA, FL. (LAT 28 43 22 LONG 081 08 43)										
DEC , 1981										
09...	48	5.6	31	2.6	156	<.5	--	13	84	34
14...	56	14	80	4.2	157	<.5	--	23	150	47
17...	61	11	63	3.1	--	--	--	29	160	43
MAR , 1982										
02...	--	--	--	--	--	--	--	--	--	--
284322081084401 - DAVIDSON SHALLOW WELL COCHRAN RD NR GENEVA, FL. (LAT 28 43 18 LONG 081 08 44)										
DEC , 1981										
17...	53	7.2	44	2.0	154	<.5	--	10	70	1200
284325081092701 - TEST WELL COCHRAN FOREST WEST NR GENEVA, FL. (LAT 28 43 25 LONG 081 09 27)										
NOV , 1981										
30...	92	80	810	22	143	.7	--	180	1400	80
DEC										
02...	92	74	690	22	145	1.4	--	190	1200	70
MAR , 1982										
02...	--	--	--	--	--	--	5.3	--	--	--
284325081092702 - COCHRAN FOREST WEST SHALLOW WELL NR GENEVA, FL. (LAT 28 43 25 LONG 081 09 27)										
DEC , 1981										
08...	76	68	660	28	138	<.5	--	180	1200	310
284331081052401 - HILLSIDE SOD FARM SR 46 NR GENEVA, FL. (LAT 28 43 31 LONG 081 05 24)										
DEC , 1981										
08...	47	1.5	6.8	1.0	143	<.5	--	.5	11	330
284341081072601 - SEMINOLE WOODS WELL PINEHILL BLVD NR GENEVA, FL (LAT 28 43 41 LONG 081 07 26)										
FEB , 1982										
08...	48	2.2	5.4	.7	134	<.5	--	1.2	9.1	200
284409081070901 - BRADDY WELL NR GENEVA, FL. (LAT 28 44 09 LONG 081 07 09)										
JAN , 1982										
26...	38	2.5	6.4	2.3	88	<.1	--	16	8.6	97
284411081065801 - YARBOROUGH HOME WELL NR. GENEVA, FL. (LAT 28 44 04 LONG 081 06 58)										
MAR , 1982										
03...	40	2.5	5.0	2.4	97	--	--	16	8.1	190
284431081084501 - COCHRAN WELL COCHRAN RD, FL. (LAT 28 44 31 LONG 081 08 45)										
JAN , 1982										
26...	66	2.2	12	.8	175	<.1	--	4.1	16	250
284434081050101 - 84410503 POT MAP WELL NR LK HARNEY, GENEVA, FL. (LAT 28 44 34 LONG 081 05 01)										
JAN , 1982										
27...	60	24	170	6.2	185	<.5	--	37	300	49

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

SEMINOLE COUNTY--Continued

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT) (72016)	DEPTH TO TOP OF SAMPLE INTER- VAL (FT) (72015)	DEPTH OF HOLE, TOTAL (FEET) (72001)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS) (90095)	PH (STAND- ARD UNITS) (00400)	PH LAB (STAND- ARD UNITS) (00403)	TEMPER- ATURE (DEG C) (00010)	HARD- NESS (MG/L AS CACO3) (00900)	
284435081052001 - FRY WELL AT LK HARNEY RD. GENEVA, FL. (LAT 28 44 35 LONG 081 05 20)												
JAN , 1982	27...	1330	--	--	--	460	401	6.8	7.4	18.0	182	
284438081084701 - JOHNSON DEEP WELL COCHRAN RD NR GENEVA, FL. (LAT 28 44 38 LONG 081 08 47)												
JAN , 1982	26...	1330	--	--	--	720	664	6.9	7.5	19.0	240	
284439081085501 - JOHNSON SHALLOW WELL NR GENEVA, FL. (LAT 28 44 39 LONG 081 08 55)												
JAN , 1982	26...	1320	--	--	--	360	318	6.9	7.6	18.5	158	
284442081052401 - WINONA DR TEST WELL NR GENEVA, FL. (LAT 28 44 42 LONG 081 05 24)												
FEB , 1982	16...	1000	--	58	50	58	380	378	6.9	7.4	21.5	195
MAR	01...	1200	--	200	50	200	450	420	7.1	7.4	22.0	223
284456081073301 - HODGES JACKSON RD NR GENEVA, FL. (LAT 28 44 56 LONG 081 07 33)												
JAN , 1982	26...	1200	--	--	--	260	246	7.0	8.0	21.0	109	
284519081081801 - 84510803 ROTUNDO W. SR46 NR GENEVA, FL. (LAT 28 45 19 LONG 081 08 18)												
JAN , 1982	26...	1120	--	--	--	440	408	6.9	7.4	22.0	202	
284520081051001 - HADDIX WELL WINONA RD NR GENEVA, FL. (LAT 28 45 20 LONG 081 05 10)												
JAN , 1982	27...	1345	--	--	--	395	377	7.1	7.8	21.5	135	
284526081065401 - HISAW RANCH OSCEOLA RD NR GENEVA, FL. (LAT 28 45 26 LONG 081 06 54)												
JAN , 1982	26...	1420	--	--	--	250	217	7.2	8.1	21.0	93	
284531081051601 - VAUGHN WELL WINONA RD NR GENEVA, FL. (LAT 28 45 31 LONG 081 05 16)												
JAN , 1982	27...	1400	--	--	--	380	363	6.9	7.5	21.0	163	
284538081082001 - MOCKINGBIRD LANE WELL NR GENEVA, FL. (LAT 28 45 38 LONG 081 08 20)												
JAN , 1982	26...	1000	--	--	--	450	430	6.9	7.3	19.5	217	

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

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SEMINOLE COUNTY--Continued

DATE	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)	ALKA- LINEITY FIELD (MG/L AS CACO3) (00410)	SULFIDE TOTAL (MG/L AS S) (00745)	SULFITE DIS- SOLVED (MG/L AS SO3) (00740)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
284435081052001 - FRY WELL AT LK HARNEY RD. GENEVA, FL. (LAT 28 44 35 LONG 081 05 20)										
JAN , 1982 27...	70	1.7	8.4	.5	197	<.5	--	1.7	10	3000
284438081084701 - JOHNSON DEEP WELL COCHRAN RD NR GENEVA, FL. (LAT 28 44 38 LONG 081 08 47)										
JAN , 1982 26...	91	3.0	45	1.1	192	<.1	--	59	56	630
284439081085501 - JOHNSON SHALLOW WELL NR GENEVA, FL. (LAT 28 44 39 LONG 081 08 55)										
JAN , 1982 26...	61	1.4	4.8	.8	159	<.1	--	4.9	7.6	4700
284442081052401 - WINONA DR TEST WELL NR GENEVA, FL. (LAT 28 44 42 LONG 081 05 24)										
FEB , 1982 16...	73	3.2	18	1.0	197	1.5	--	.5	8.7	1300
MAR 01...	82	4.4	12	.8	203	<.5	--	4.5	17	220
284456081073301 - HODGES JACKSON RD NR GENEVA, FL. (LAT 28 44 56 LONG 081 07 33)										
JAN , 1982 26...	41	1.5	9.5	1.0	104	<.1	--	3.0	8.7	160
284519081081801 - 84510803 ROTUNDO W. SR46 NR GENEVA, FL. (LAT 28 45 19 LONG 081 08 18)										
JAN , 1982 26...	77	2.4	6.9	.8	198	<.1	--	.2	9.7	4000
284520081051001 - HADDIX WELL WINONA RD NR GENEVA, FL. (LAT 28 45 20 LONG 081 05 10)										
JAN , 1982 27...	46	5.0	23	1.3	141	<.5	--	3.7	33	190
284526081065401 - HISAW RANCH OSCEOLA RD NR GENEVA, FL. (LAT 28 45 26 LONG 081 06 54)										
JAN , 1982 26...	35	1.5	8.0	.5	78	<.1	--	12	13	91
284531081051601 - VAUGHN WELL WINONA RD NR GENEVA, FL. (LAT 28 45 31 LONG 081 05 16)										
JAN , 1982 27...	62	1.9	8.9	1.0	166	<.5	--	2.7	14	2500
284538081082001 - MOCKINGBIRD LANE WELL NR GENEVA, FL. (LAT 28 45 38 LONG 081 08 20)										
JAN , 1982 26...	84	1.8	6.0	.6	228	<.1	--	<.1	7.7	5200

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

SEMINOLE COUNTY--Continued

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT) (72016)	DEPTH TO TOP OF SAMPLE INTER- VAL (FT) (72015)	DEPTH OF HOLE, TOTAL (FEET) (72001)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS) (90095)	PH (STAND- ARD UNITS) (00400)	PH LAB (STAND- ARD UNITS) (00403)	TEMPER- ATURE (DEG C) (00010)	HARD- NESS (MG/L AS CACO3) (00900)
284550081071501 - 84510703 CAMERON WELL NR GENEVA, FL. (LAT 28 45 50 LONG 081 07 15)											
DEC , 1981											
10...	1000	115	--	--	--	460	426	6.5	7.7	20.0	173
284553081085501 - BLACKARD SR 46 NR GENEVA (LAT 28 45 53 LONG 081 08 55)											
JAN , 1982											
26...	0930	--	--	--	--	870	823	6.8	7.3	19.0	284
284604081063401 - MOREAU WELL B RD NR GENEVA, FL. (LAT 28 46 02 LONG 081 06 41)											
MAR , 1982											
10...	1125	--	--	--	--	545	531	6.9	7.3	22.5	263
284619081053201 - STEELE WELL OSCEOLA RD NR GENEVA, FL. (LAT 28 46 19 LONG 081 05 32)											
MAR , 1982											
10...	1145	--	--	--	--	625	614	6.8	7.1	22.5	297
284626081051801 - K RD TEST WELL OSCEOLA RD NR GENEVA, FL. (LAT 28 46 26 LONG 081 05 18)											
MAR , 1982											
09...	1330	--	115	83	115	610	593	7.6	7.7	21.5	258
10...	1050	--	200	83	200	625	616	7.3	7.6	22.0	295
284706081070801 - 84710703 THRASHER PASTURE WELL NR GENEVA, FL (LAT 28 47 06 LONG 081 07 08)											
DEC , 1981											
09...	1400	180	--	--	--	720	697	6.9	7.4	22.0	276
09...	1500	--	184	86	--	640	611	6.6	7.3	23.0	271
284712081044301 - 84710401 CO. LANDFILL OSCEOLA RD NR GENEVA, FL. (LAT 28 47 12 LONG 081 04 43)											
MAR , 1982											
10...	1600	--	--	--	--	770	805	7.6	7.8	22.0	263

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

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SEMINOLE COUNTY--Continued

DATE	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)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	SULFIDE TOTAL (MG/L AS S) (00745)	SULFITE DIS- SOLVED (MG/L AS SO3) (00740)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
284550081071501 - 84510703 CAMERON WELL NR GENEVA, FL. (LAT 28 45 50 LONG 081 07 15)										
DEC , 1981										
10...	61	5.1	18	1.3	205	<.5	--	1.5	24	330
284553081085501 - BLACKARD SR 46 NR GENEVA (LAT 28 45 53 LONG 081 08 55)										
JAN , 1982										
26...	98	9.6	59	2.8	280	<.1	--	7.9	100	3200
284604081063401 - MOREAU WELL B RD NR GENEVA, FL. (LAT 28 46 02 LONG 081 06 41)										
MAR , 1982										
10...	102	2.0	7.9	1.0	249	--	--	3.0	10	1500
284619081053201 - STEELE WELL OSCEOLA RD NR GENEVA, FL. (LAT 28 46 19 LONG 081 05 32)										
MAR , 1982										
10...	117	1.2	13	.8	313	--	--	3.6	21	1600
284626081051801 - K RD TEST WELL OSCEOLA RD NR GENEVA, FL. (LAT 28 46 26 LONG 081 05 18)										
MAR , 1982										
09...	97	3.9	17	2.3	289	--	--	4.5	22	60
10...	95	14	15	1.2	322	--	--	2.5	27	100
284706081070801 - 84710703 THRASHER PASTURE WELL NR GENEVA, FL (LAT 28 47 06 LONG 081 07 08)										
DEC , 1981										
09...	79	19	34	2.6	394	<.5	--	2.2	58	8
09...	98	6.4	15	1.6	318	--	--	<.1	19	330
284712081044301 - 84710401 CO. LANDFILL OSCEOLA RD NR GENEVA, FL. (LAT 28 47 12 LONG 081 04 43)										
MAR , 1982										
10...	84	13	46	1.6	217	--	--	7.5	110	44

WATER RESOURCES DATA FOR FLORIDA, 1982
Volume 1B: Northeast FloridaKEY TO SITE LOCATIONS ON FIGURE 24
VOLUSIA COUNTY

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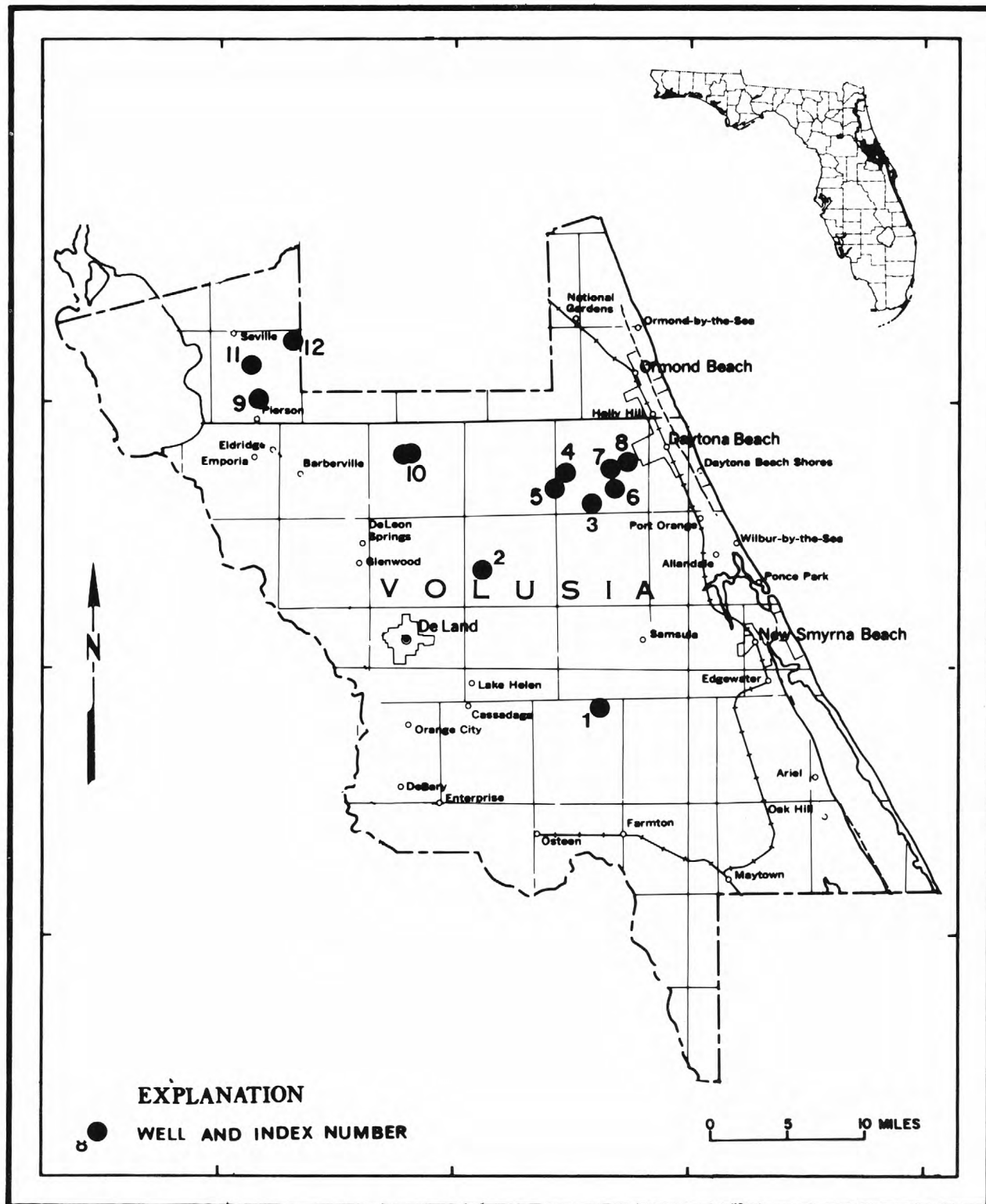


FIGURE 24. LOCATION OF WELLS IN VOLUSIA COUNTY.

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

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VOLUSIA COUNTY

WELL NUMBER.--285745081054001. Local Number 857-105-01. USGS Observation Well at Alamana, FL.

LOCATION.--Lat 28°57'05", long 81°05'40", in SW¼SW¼SE¼ sec.2, T.18 S., R.32 E., Hydrologic Unit 03080101, on west side of Lake Ashby Road, 0.2 mi (0.3 km) southeast of intersection of State Highway 415, and 0.8 mi (1.3 km) north of Alamana.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in (15 cm), depth 121 ft (37 m), cased to 113 ft (34 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of recorder shelf, 3.10 ft (0.94 m) above land-surface datum.

DATUM.--Land-surface datum is 35.90 ft (10.94 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--May 1936 to September 1950 (monthly), October 1950 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, 32.10 ft (9.78 m) NGVD, September 1945; lowest daily maximum water level, 25.11 ft (7.65 m) NGVD, July 19, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	27.97	27.29	27.32	28.86	29.30	28.77	29.59	29.92	29.75	30.23	30.39	30.07
10	27.72	27.65	27.30	28.94	29.16	29.30	30.13	29.59	29.52	30.21	30.10	29.99
15	27.54	27.80	27.24	29.20	29.38	29.31	30.43	29.16	29.39	29.96	30.40	30.04
20	27.39	27.76	26.88	29.43	29.45	29.06	30.39	28.82	30.09	29.98	30.46	29.75
25	27.26	27.54	26.89	29.46	29.14	28.86	30.21	29.10	30.43	30.36	30.46	30.15
EOM	27.15	27.39	28.42	29.39	29.00	29.56	30.09	29.49	30.49	30.63	30.38	30.61
MAX	28.23	27.85	28.42	29.49	29.52	29.56	30.44	30.07	30.53	30.71	30.58	30.61
WTR YR 1982	MEAN	29.17	MAX	30.71	JUL 29	MIN	26.86	DEC 21				

WELL NUMBER.--290541081132902. Local Number 905-113-04. USGS 04 Deep Test Well near De Land, FL.

LOCATION.--Lat 29°05'41", long 81°13'29", in NW¼NW¼SW¼ sec.20, T.16 S., R.31 E., Hydrologic Unit 03080103, on north side of U.S. Highway 92, and 6.0 mi (9.6 km) east of U.S. Highway 17 in De Land.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in (15 cm), depth 639 ft (195 m), cased to 85 ft (26 m). Original depth of well, 351 ft (107 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of 6 in (15 cm) coupling, 3.25 ft (0.99 m) above land-surface datum.

DATUM.--Land-surface datum is 38.35 ft (11.69 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Additional measurements were made to better define low water conditions during the 1982 water year.

PERIOD OF RECORD.--May 1955 to May 1965; June 1965 to current year (bimonthly). 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, 39.65 ft (12.09 m) NGVD, Sept. 30, 1960; lowest, 31.99 ft (9.75 m) NGVD, June 28, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
27...	1548	36.13	10...	1345	37.43
30...	1250	35.67	JUN		
NOV			01...	1425	36.94
30...	1540	35.93	07...	1512	37.50
DEC			30...	1425	37.71
14...	1410	35.74	JUL		
30...	0900	36.04	26...	1315	38.13
FEB			29...	1445	37.76
01...	1500	36.49	AUG		
08...	1235	37.13	30...	1215	37.75
MAR			SEP		
01...	1305	36.83	17...	1120	38.37
31...	1550	37.15	30...	1450	38.12
APR					
15...	0930	38.01			
29...	1530	37.07			

VOLUSIA COUNTY

WELL NUMBER.--290541081132903. Local Number 905-113-05. USGS 05 Deep Test Well near De Land, FL.

LOCATION.--Lat 29°05'41", long 81°13'29", in NW¼NW¼SW¼ sec.20, T.16 S., R.31 E., Hydrologic Unit 03080103, on north side of U.S. Highway 92, and 6.0 mi (9.6 km) east of U.S. Highway 17 in De Land.

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

WELL CHARACTERISTICS.--Drilled observation, artesian well, diameter 4 in (10 cm), depth 1,200 ft (366 m), cased to 639 ft (195 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of 6 in (15 cm) coupling, 3.25 ft (0.99 m) above land-surface datum.

DATUM.--Land-surface datum is 38.35 ft (11.69 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--September 1969 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.34 ft (10.47 m) NGVD, Mar. 9, 1970; lowest measured, 26.93 ft (8.21 m) NGVD, June 29, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT 27...	1549	29.44	MAY 10...	1350	30.29
DEC 14...	1410	29.38	JUN 07...	1514	30.02
FEB 08...	1240	29.32	JUL 26...	1316	31.02
APR 15...	0930	30.00	SEP 17...	1123	31.75

WELL NUMBER.--290541081132904. Local Number 905-113-06. USGS 06 Deep Well near De Land, FL. (Formerly published as USGS Observation Well near De Land, FL.)

LOCATION.--Lat 29°05'41", long 81°13'29", in NW¼NW¼SW¼ sec.20, T.16 S., R.31 E., Hydrologic Unit 03080103, on north side of U.S. Highway 92, and 6.0 mi (9.6 km) east of U.S. Highway 17 in De Land.

AQUIFER.--Oldsmar Limestone of the Eocene Age, Geologic Unit 124 OLDM.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 1.25 in (3.18 cm), depth 1,290 ft (393 m), cased to 1,275 ft (389 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of casing, 3.25 ft (0.99 m) above land-surface datum.

DATUM.--Land-surface datum is 38.35 ft (11.69 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--September 1969 to current year (bimonthly). 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, 32.33 ft (9.85 m) NGVD, Mar. 9, 1970; lowest measured, 23.04 ft (7.02 m) NGVD, May 13, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT 27...	1550	25.31	MAY 10...	1354	26.01
DEC 14...	1415	25.24	JUN 07...	1518	25.90
FEB 08...	1247	25.06	JUL 26...	1321	26.93
APR 15...	0930	25.58	SEP 17...	1125	26.90

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

VOLUSIA COUNTY

WELL NUMBER.--290920081063001. Local Number 909-106-01. USGS Observation Well near Daytona Beach, FL.

LOCATION.--Lat 29°09'20", long 81°06'30", in SW¼NE¼ sec.33, T.15 S., R.32 E., Hydrologic Unit 03080201, on north side of U.S. Highway 92, 14.9 mi (24.0 km) northeast of U.S. Highway 17 in De Land, and 6.0 mi (9.6 km) west of Daytona Beach.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in (15 cm), depth 235 ft (72 m), cased to 102 ft (31 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of casing, 2.08 ft (0.63 m) above land-surface datum.

DATUM.--Land-surface datum is 27.04 ft (8.24 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--February 1955 to November 1957; January 1958 to current year (bimonthly). 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, 24.46 ft (7.46 m) NGVD, Oct. 18, 1955; lowest measured, 11.40 ft (3.47 m) NGVD, May 14, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
26...	1625	13.73	12...	1324	13.70
DEC			JUN		
14...	1255	14.65	07...	1213	14.86
JAN			JUL		
18...	1210	16.26	26...	0849	15.59
FEB			SEP		
08...	1345	14.62	17...	1155	15.97
APR					
15...	0950	15.55			

WELL NUMBER.--290920081063002. Local Number 909-106-09. USGS 2-Inch Observation Well near Daytona Beach, FL.

LOCATION.--Lat 29°09'23", long 81°06'12", in SW¼NE¼ sec.33, T.15 S., R.32 E., Hydrologic Unit 03080201, on north side of U.S. Highway 92, 14.9 mi (24.0 km) northeast of U.S. Highway 17 in De Land, and 6.0 mi (9.6 km) west of Daytona Beach.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 2 in (5 cm), depth 496 ft (151 m), cased to 480 ft (146 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of casing, 2.08 ft (0.63 m), above land-surface datum.

DATUM.--Land-surface datum is 27.04 ft (8.24 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--October 1955 (annually); January 1974 to current year (bimonthly). 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, 22.23 ft (6.78 m) NGVD, Oct. 18, 1955; lowest measured, 11.48 ft (3.50 m) NGVD, May 14, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
26..	--	13.94	12...	1329	14.23
DEC			JUN		
14...	1300	14.57	07...	1209	15.05
JAN			JUL		
18...	1212	16.38	26...	0845	15.70
APR			SEP		
15...	0950	15.56	17...	1200	16.14

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

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VOLUSIA COUNTY

WELL NUMBER.--291006081101004. Local Number 910-110-04. Indian Lake Test Site 4A near Daytona, FL.

LOCATION.--Lat 29°10'06", long 81°10'10", in SE¼NE¼SW¼ sec.26, T.15 S., R.31 E., Hydrologic Unit 03080103, 2.8 mi (4.5 km) northwest of intersection of U.S. Highway 92 and Indian Lake Road, and 9 mi (14 km) west of Daytona Beach.

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

WELL CHARACTERISTICS.--Drilled, unused, observation well, diameter 4 in (10 cm), depth 222 ft (68 m), cased to 122 ft (37 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of recorder shelf, 2.10 ft (0.64 m) above land-surface datum.

DATUM.--Land-surface datum is 40.42 ft (12.32 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 31.45 ft (9.59 m) NGVD, Oct. 30,31, Nov. 1, 1975; lowest, 24.28 ft (7.40 m) NGVD, July 6, 1978.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	28.37	28.31	27.99	28.67	28.60	28.82	29.34	29.39	29.39	29.90	29.55	29.50
10	28.19	28.51	27.87	28.72	28.71	29.22	29.74	29.21	29.17	29.78	29.37	29.79
15	28.20	28.58	27.85	28.83	28.78	29.19	29.93	28.88	29.02	29.49	29.65	29.87
20	28.04	28.37	27.64	28.89	29.11	28.98	29.85	28.58	29.52	29.33	29.66	29.76
25	27.93	28.19	27.57	28.87	28.90	28.83	29.67	28.60	29.79	29.45	29.87	30.15
EOM	28.00	28.06	28.47	28.81	28.90	29.35	29.46	29.02	30.02	29.68	29.76	30.34
MAX	28.61	28.60	28.47	28.91	29.13	29.35	29.95	29.44	30.06	30.06	29.90	30.34
WTR YR 1982	MEAN	29.02	MAX	30.34	SEP 29	AND OTHERS	MIN	27.57	DEC 24	AND OTHERS		

WELL NUMBER.--291007081101613. Local Number 910-110-13. Tiger Bay Shallow Test Well near Daytona Beach, FL.

LOCATION.--Lat 29°10'07", long 81°10'16", in NW¼NE¼SW¼ sec.26, T.15 S., R.31 E., Hydrologic Unit 03080103, 2.9 mi (4.7 km) northwest of intersection of U.S. Highway 92 and Indian Lake Road, and 9 mi (14 km) west of Daytona Beach.

AQUIFER.--Nonartesian sand aquifer of the Quaternary System, Geologic Unit 110 NRSD.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 4 in (10 cm), depth 20 ft (6 m), cased to 18 ft (5 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of recorder shelf, 2.40 ft (0.73 m) above land-surface datum.

DATUM.--Land-surface datum is 41.17 ft (12.55 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--March 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 38.28 ft (11.67 m) NGVD, Sept. 26, 1982; lowest, 32.99 ft (10.06 m) NGVD, July 16, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	37.19	37.40	36.79	37.39	37.00	37.21	37.54	37.21	37.37	37.88	37.52	37.50
10	37.02	37.40	36.58	37.29	37.22	37.62	38.04	36.99	37.05	37.81	37.35	37.94
15	37.07	37.31	36.53	37.44	37.21	37.44	37.87	36.74	37.08	37.55	37.86	37.87
20	36.82	37.09	36.32	37.40	37.51	37.27	37.68	36.46	37.82	37.58	37.82	37.82
25	36.71	36.93	36.23	37.24	37.29	37.14	37.55	36.35	37.92	37.55	37.94	38.17
EOM	37.00	36.78	37.37	37.11	37.21	37.74	37.35	37.12	38.05	37.69	37.71	38.15
MAX	37.39	37.48	37.37	37.50	37.60	37.75	38.09	37.37	38.06	38.03	37.94	38.28
WTR YR 1982	MEAN	37.33	MAX	38.28	SEP 26	MIN	36.23	DEC 25				

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

VOLUSIA COUNTY

WELL NUMBER.--291025081050201. Local Number 910-105-1. USGS Observation Well near Interstate Highway 95 at Daytona Beach, FL.

LOCATION.--Lat 29°10'25", long 81°05'02", in SW¼NE¼ sec.27, T.15 S., R.32 E., Hydrologic Unit 03080201, 23 ft (7 m) north and 75 ft (23 m) east of intersection of Interstate Highway 95 and U.S. Highway 92 in Daytona Beach.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in (15 cm), depth 220 ft (67 m), cased to 152 ft (46 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of recorder shelf, 3.50 ft (1.07 m) above land-surface datum.

DATUM.--Land-surface datum is 26.05 ft (7.94 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--May 1955 to July 1969; May 1973 to March 1974 (bimonthly); May 1974 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, 15.26 ft (4.65 m) NGVD, Oct. 18, 1955; lowest, 8.52 ft (2.60 m) below NGVD, July 14, 1977.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	1.51	2.64	2.50	3.36	4.71	3.36	3.30	1.99	4.08	2.43	4.18	3.30
10	.45	3.40	1.52	2.56	4.42	4.20	3.51	1.36	1.94	2.48	3.00	4.67
15	1.48	3.51	2.39	1.82	4.98	3.15	3.35	-2.47	1.44	.56	3.70	4.50
20	1.11	3.13	2.74	2.40	5.18	2.03	3.27	-1.23	4.11	3.14	4.24	3.43
25	.83	2.50	1.71	2.89	4.18	.74	3.96	3.22	4.52	4.32	5.38	6.06
EOM	1.78	2.61	2.67	1.82	4.25	4.14	3.51	3.73	4.52	4.78	4.93	6.82
MAX	1.78	3.58	3.11	3.85	5.18	5.10	4.33	3.75	5.09	5.44	5.53	7.16
WTR YR 1982	MEAN	3.05	MAX	7.16	SEP 27	MIN	-2.65	MAY 16				

WELL NUMBER.--291113081050601. Local Number 911-105-03. City Well 44 at Daytona Beach, FL.

LOCATION.--Lat 29°11'13", long 81°05'06", in SW¼SW¼NE¼ sec.22, T.15 S., R.32 E., Hydrologic Unit 03080201, on south side of Pentress Boulevard, 0.6 mi (1.0 km) east of Interstate 95, and 1.2 mi (1.9 km) west of U.S. Highway 92 in Daytona Beach.

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

WELL CHARACTERISTICS.--Drilled, public-supply, artesian well, diameter 16 in (41 cm), depth 211 ft (64 m), cased to 111 ft (34 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of 2 in (5 cm) riser pipe, 2.29 ft (0.70 m) above land-surface datum.

DATUM.--Land-surface datum is 29.11 ft (8.87 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--January 1968 to current year (bimonthly). 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, 5.69 ft (1.73 m) NGVD, Jan. 14, 1968; lowest measured, 13.46 ft (4.10 m) below NGVD, June 28, 1977.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
27...	0830	-3.23	12...	1237	-6.89
DEC			JUN		
14...	1542	-1.62	08...	0700	0.18
FEB			JUL		
08...	1540	1.33	26...	1415	2.17
APR			SEP		
15...	1130	-1.72	17...	1520	0.62

VOLUSIA COUNTY

WELL NUMBER.--291133081040601. Local Number Volusia 911-104-04. General Electric Plant 6-Inch Well at Daytona Beach, FL.

LOCATION.--Lat 29°11'33", long 81°04'06", in SE¼NE¼NW¼ sec.23, T.15 S., R.32 E., Hydrologic Unit 03080201, on north side of U.S. Highway 92, 1.5 mi (2.4 km) east of Interstate Highway 95, and 3.0 mi (4.8 km) west of Daytona Beach.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in (15 cm), depth 235 ft (72 m), cased to 115 ft (35 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of casing, 3.00 ft (0.91 m) above land-surface datum.

DATUM.--Land-surface datum is 27.55 ft (8.40 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Additional measurements were made to better define low water conditions during the 1982 water year.

PERIOD OF RECORD.--May 1955 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.92 ft (4.24 m) NGVD, Oct. 18, 1955; lowest measured, 11.38 ft (3.47 m) below NGVD, May 5, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
27...	0710	-3.70	12...	1201	-4.21
30...	1410	-2.66	JUN		
NOV			01...	1350	0.71
30...	1600	-0.92	07...	1116	0.22
DEC			30...	1350	1.16
14...	1512	-0.71	JUL		
30...	0855	-2.44	26...	1345	2.55
FEB			29...	1410	1.97
01...	1435	0.09	AUG		
08...	1420	2.33	30...	1135	2.46
MAR			SEP		
01...	1440	2.18	17...	1502	0.23
31...	1520	1.57	30...	1325	3.97
APR					
15...	1030	0.81			
29...	1445	0.38			

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

VOLUSIA COUNTY

WELL NUMBER.--291133081040602. Local Number 911-104-09. General Electric Plant 2-Inch Well at Daytona Beach, FL.

LOCATION.--Lat 29°11'33", long 81°04'06", in SE¼NE¼NW¼ sec.23, T.15 S., R.32 E., Hydrologic Unit 03080201, on north side of U.S. Highway 92, 1.5 mi (2.4 km) east of Interstate Highway 95, and 3.0 mi (4.8 km) west of Daytona Beach.

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

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 2 in (5 cm), depth 500 ft (152 m), cased to 483 ft (147 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of casing, 3.00 ft (0.91 m) above land-surface datum.

DATUM.--Land-surface datum is 27.55 ft (8.40 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--May 1955 to current year (bimonthly). 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, 18.57 ft (5.66 m) NGVD, Nov. 1, 1960; lowest measured, 6.86 ft (2.09 m) NGVD, June 29, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
27...	0711	10.41	12...	1204	11.00
DEC			JUN		
14...	1500	10.77	07...	1124	11.47
FEB			JUL		
08...	1430	11.11	26...	1347	12.22
APR			SEP		
15...	1030	11.59	17...	1505	12.77

WELL NUMBER.--291343081254601. Local Number 913-125-01. Jones Well near Pierson, FL.

LOCATION.--Lat 29°13'43", long 81°25'46", in SE¼NE¼NE¼ sec.6, T.15 S., R.29 E., Hydrologic Unit 03080101, 2.3 mi (3.7 km) southeast of Pierson, and 2.9 mi (4.7 km) north of Barberville.

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

WELL CHARACTERISTICS.--Drilled, observation well, diameter 6 in (15 cm), depth 412 ft (126 m), cased to 108 ft (33 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of recorder shelf, 3.80 ft (1.16 m) above land-surface datum.

DATUM.--Land-surface datum is 51.88 ft (15.81 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--December 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 35.64 ft (10.86 m) NGVD, Sept. 30, Oct. 1, 1979; lowest, 9.58 ft (2.92 m) NGVD, Jan. 13, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	30.39	30.51	30.16	30.22	30.11	29.51	31.59	32.26	32.42	33.68	34.51	33.99
10	29.92	28.10	29.52	30.41	30.18	31.42	32.95	31.64	31.40	33.40	33.81	34.20
15	30.01	29.39	28.41	27.12	30.30	31.25	33.36	31.01	31.41	33.31	34.33	34.37
20	30.04	30.61	17.22	29.11	30.08	30.40	32.90	30.92	33.13	33.51	34.29	33.58
25	30.09	29.03	28.22	29.87	29.52	30.72	33.03	32.15	33.71	33.88	34.48	34.41
EOM	30.32	30.48	29.76	29.97	29.73	32.19	32.68	32.45	33.87	34.34	34.44	34.59
MAX	30.74	30.99	30.56	30.43	30.54	32.19	33.36	32.49	33.93	34.36	34.56	34.82
WTR YR 1982	MEAN	31.35	MAX	34.82	SEP 28	MIN	17.22	DEC 20				

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

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VOLUSIA COUNTY

WELL NUMBER.--291344081155701. Local Number 913-115-01. Union Camp Deep Well near Barberville, FL.

LOCATION.--Lat 29°13'44", long 81°15'57", in NE¼SW¼NE¼ sec.2, T.15 S., R.30 E., Hydrologic Unit 03080103, 0.5 mi (0.8 km) south of State Highway 40, and 9.7 mi (15.6 km) east of Barberville.

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

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in (15 cm), depth 151 ft (46 m), cased to 74 ft (23 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of recorder shelf, 2.50 ft (0.76 m) above land-surface datum.

DATUM.--Land-surface datum is 32.88 ft (10.02 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--April 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 29.98 ft (9.14 m) NGVD, Sept. 29, 1979; lowest, 23.47 ft (7.15 m) NGVD, July 8, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	27.17	27.21	26.87	27.17	27.23	27.57	28.06	28.12	27.94	28.57	28.73	28.75
10	27.04	27.40	26.73	27.30	27.51	27.84	28.18	27.90	27.83	28.55	28.58	28.84
15	26.94	27.48	26.39	26.67	27.57	27.87	28.38	27.61	27.66	28.47	28.81	29.01
20	26.84	27.39	26.23	26.91	27.81	27.75	28.31	27.30	28.09	28.61	28.86	28.84
25	26.79	27.01	26.00	27.26	27.61	27.63	28.17	27.42	28.49	28.75	28.90	29.01
EOM	26.79	26.98	26.93	27.23	27.59	27.95	28.11	27.61	28.63	28.80	28.90	29.19
MAX	27.41	27.48	26.99	27.38	27.91	27.95	28.38	28.18	28.63	28.83	28.94	29.19
WTR YR 1982	MEAN	27.77	MAX	29.19	SEP 30	MIN	25.72	DEC 22				

WELL NUMBER.--291353081160401. Local Number 913-116-01. Union Camp Shallow Well near Barberville, FL.

LOCATION.--Lat 29°13'53", long 81°16'04", in SW¼NW¼NE¼ sec.2, T.15 S., R.30 E., Hydrologic Unit 03080103, 0.3 mi (0.5 km) south of State Highway 40, and 9.7 mi (15.6 km) east of Barberville.

AQUIFER.--Nonartesian sand aquifer of the Quaternary Age, Geologic Unit 110 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in (10 cm), depth 20 ft (6 m), cased to 20 ft (6 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of recorder shelf, 2.60 ft (0.79 m) above land-surface datum.

DATUM.--Land-surface datum is 34.13 ft (10.40 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--April 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 34.16 ft (10.41 m) NGVD, Sept. 30, 1979; lowest, 23.08 ft (7.03 m) NGVD, July 18, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	30.80	---	---	31.99	31.65	32.36	33.05	32.32	32.38	32.81	32.77	32.69
10	30.36	---	29.88	31.90	32.92	33.38	33.70	31.58	31.61	33.51	32.30	33.46
15	30.21	---	29.79	32.39	32.82	32.95	33.48	30.95	31.25	32.73	33.38	33.20
20	29.68	---	29.57	32.47	33.04	32.44	32.93	30.41	32.98	33.52	33.46	32.47
25	29.52	---	29.40	32.21	32.44	32.48	32.41	31.06	33.76	33.71	33.27	33.20
EOM	30.19	---	31.50	31.91	32.26	33.56	32.79	31.53	33.45	33.50	33.46	33.59
MAX	31.27	31.58	31.50	32.56	33.33	33.59	33.81	32.84	33.78	33.71	33.60	33.59
WTR YR 1982	MEAN	32.21	MAX	33.81	APR 11	MIN	29.40	DEC 25				

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

VOLUSIA COUNTY

WELL NUMBER.--291715081281801. Local Number 917-128-01. J. C. Mew Well at Seville, FL.

LOCATION.--Lat 29°17'26", long 81°28'54" in SW¼SW¼ sec.9, T.14 S., R.28 E., Hydrologic Unit 03080101, 300 ft (91 m) west of U.S. Highway 17, and 1.8 lmi (2.9 km) south of Seville.

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

WELL CHARACTERISTICS.--Drilled, stock, artesian well, diameter 4 in (10 cm), depth 180 ft (55 m), casing length unknown.

INSTRUMENTATION.--Pressure-gage measured. Measuring point: Top of casing, 1.20 ft (0.37 m) above land-surface datum.

DATUM.--Land-surface datum is 14.90 ft (4.54 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--March 1936 to April 1950 (monthly); August 1950 to current year (bimonthly). 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, 27.89 ft (8.50 m) NGVD, July 14, 1961; lowest measured, 18.35 ft (5.59 m) NGVD, Jan. 20, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			JUN		
28...	1525	22.60	08...	1440	23.10
DEC			JUL		
16...	1130	21.10	28...	1100	24.60
FEB			SEP		
17...	1100	22.60	16...	1100	25.70
APR					
15...	1310	24.10			

WELL NUMBER.--291905081251001. Local Number 919-125-01. R. Nolan Well near Seville, FL.

LOCATION.--Lat 29°19'05", long 81°25'10", in SE¼SE¼ sec.36, T.13 S., R.28 E., Hydrologic Unit 03080103, 25 ft (8 m) south of State Highway 305, 100 ft (30 m) west of Volusia-Flagler County line, and 4.8 mi (7.7 km) east of U.S. Highway 17 in Seville.

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

WELL CHARACTERISTICS.--Drilled, stock, artesian well, diameter 6 in (15 cm), depth 138 ft (42 m), casing length unknown.

INSTRUMENTATION.--Tape measured. Measuring point: Top of casing, 1.21 ft (0.37 m) above land-surface datum.

DATUM.--Land-surface datum is 23.30 ft (7.10 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--December 1935 to current year (bimonthly). 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, 22.90 ft (6.98 m) NGVD, Sept. 1, Oct. 1, 1947; lowest measured, 16.23 ft (4.95 m) NGVD, May 1, 1968.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
28...	1345	18.34	15...	1250	19.84
DEC			MAY		
15...	1644	17.70	12...	1050	19.12
FEB			SEP		
09...	1530	18.90	16...	1140	20.95

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1981 TO SEPTEMBER 1982

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VOLUSIA COUNTY

STATION NUMBER	STATION NAME	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF MEASURE- MENT	ELEV- ATION ABOVE NGVD (FEET)
284743080520101	84705101 WL CANTRELL N OF COUNTY LINE,S/OAK HILL	28 47 43	080 52 01	01	82-05-11 82-09-15	8.56 10.15
284902081112001	84911101 FLOW WELL,N.OF RIVER,S.OF OSTEEN	28 49 02	081 11 20	01	82-05-10 82-09-13	14.42 15.86
285016081014101	85010102 USGS WELL NEAR COW CREEK,W. OF MAYTOWN	28 50 16	081 01 41	01	82-05-10 82-09-13	16.29 17.32
285040081192101	85011821 STEWART WELL,U.S.17,S.OF DEBARY	28 50 40	081 19 21	01	82-05-13 82-09-14	16.56 18.69
285044081094901	85010903 OSTEEN CONVENIENCE STORE WELL	28 50 44	081 09 49	01	82-05-10 82-09-13	17.74 19.98
285045081063501	85010603 TURNER FMS.WELL,E.OF OSTEEN	28 50 45	081 06 35	01	82-05-10 82-09-13	14.84 16.03
285137081144501	85111403 ENTERPRISE RD .85MI W OF GAR,ENTERPRISE	28 51 37	081 14 45	01	82-05-10	11.40
285143080521401	85105202 LOOMIS NURSERY WELL W OF OAK HILL	28 51 43	080 52 14	01	82-05-11 82-09-15	8.52 9.99
285149081151401	85111402 FLOW WELL N OF OSTEEN RD	28 51 49	081 15 14	01	82-05-10	13.33
285156081190302	85111902 FLA POWER CO BENSON JUNC, S. OF DEBARY	28 51 56	081 19 03	02	82-05-10 82-09-14	11.89 14.28
285221081095002	85210902 USGS TEST WELL G-2, N. OF OSTEEN, FL	28 52 21	081 09 50	02	82-05-10 82-09-13	20.87 22.75
285259081132101	85211301 DELT. P.S. WELL #5, SAXON, DELTONA	28 52 59	081 13 21	01	82-05-10 82-09-14	13.06 15.14
285307081183001	85311802 DEBARY NURSERY WELL,HWY 17&92	28 53 07	081 18 30	01	82-09-14	23.89
285325081210901	85312101 4"WELL,HIGHBANKS RD.&SJ RIV,W.OF DEBARY	28 53 25	081 21 09	01	82-09-14	18.73
285359081161701	85311601 DELT. P.S. WELL #3, DIAMOND ST, DELTONA	28 53 59	081 16 17	01	82-05-10 82-09-14	15.15 17.64
285403080545401	85405401 CRAWFORD WELL 0.3 M SOUTH OF VOLCO ROAD	28 54 03	080 54 54	01	82-05-11	9.20
285450080533501	85405301 CLINTON WELL BEACON LIGHT ROAD,ARIEL	28 54 50	080 53 35	01	82-05-11	9.28
285452080551801	85405501 BUERGER WELL NORTH OF VOLCO ROAD,ARIEL	28 54 52	080 55 18	01	82-05-11 82-09-15	9.07 10.39
285503081124701	85511201 DELT. P.S. WELL #11, NEMO ST, DELTONA	28 55 03	081 12 47	01	82-05-10 82-09-14	9.93 12.50
285512081202801	85512001 USGS WELL 1.9MI S.OF BLUE SPG NR OR.CTY	28 55 12	081 20 28	01	82-05-11 82-09-14	16.97 18.87
285523081172901	85511702 EASTRIDGE DR.WELL, S.ORANGE CITY	28 55 23	081 17 29	01	82-09-14	12.16
285525081105901	85511001 DELT. P.S. WELL #10, DAY RD, DELTONA	28 55 25	081 10 59	01	82-05-10 82-09-14	13.91 16.18
285645080523501	85605205 CORY ESTATES FLOW WELL S.OF EDGEWATER	28 56 45	080 52 35	01	82-05-11 82-09-22	4.33 5.85
285647080522801	85605204 CAPONE WELL AT CORY S OF EDGEWATER	28 56 47	080 52 28	01	82-05-11	4.14
285655081165601	85611601 USGS TEST WELL A-1,ORANGE CITY EAST	28 56 55	081 16 56	01	82-05-10 82-09-14	11.38 13.84
285655081165602	85611602 USGS TEST WELL A-2,ORANGE CITY EAST	28 56 55	081 16 56	02	82-05-10 82-09-14	12.69 16.37
285655081165603	85611603 USGS TEST WELL A 3,ORANGE CITY EAST	28 56 55	081 16 56	03	82-05-10 82-09-14	10.44 13.97
285700081021001	85710201 USGS TEST WELL 11,E. OF LK. ASHBY	28 57 00	081 02 10	01	82-05-10 82-09-13	17.81 18.49
285811081130901	85811303 J B EVANS LAKE HELEN	28 58 11	081 13 09	01	82-05-10 82-09-14	34.16 37.67
285833080571701	85805701 GLENCOE RD SAND MINE RD W OF EDGEWATER	28 58 33	080 57 17	01	82-05-10 82-09-15	7.27 6.57

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1981 TO SEPTEMBER 1982

VOLUSIA COUNTY--Continued

STATION NUMBER	STATION NAME	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF MEASURE- MENT	ELEV- ATION ABOVE NGVD (FEET)
285852080561401	85805601 EDGEWATER P.S. WELL #3, W. OF EDGEWATER	28 58 52	080 56 14	01	82-05-10	-17.25
285858080555701	85805501 EDGEWATER P.S. WELL #2, W. OF EDGEWATER	28 58 58	080 55 57	01	82-05-10	-24.60
285859081191001	85811901 MCGREGGOR RD.4"WELL SW OF DELAND	28 58 59	081 19 10	01	82-09-14	7.84
285904080554601	85905504 EDGEWATER P.S. WELL #1, W. OF EDGEWATER	28 59 04	080 55 46	01	82-05-10 82-09-13	-40.00 -32.00
285906081152002	85911508 3 IN WELL N SIDE OF ORANGE CAMP RD	28 59 06	081 15 20	02	82-05-10 82-09-14	29.60 33.18
285915080563801	85905602 OLD NURSERY WELL E OF MISSION RD W EDGW	28 59 15	080 56 38	01	82-05-10 82-09-15	8.60 8.95
285921080541001	85905402 MOORE WELL RIVERSIDE DR EDGEWATER	28 59 21	080 54 10	01	82-05-10 82-09-15	6.55 8.00
285923081211601	85912012 ST.JOHNS RD+HONTOON RD WELL,SW OF DELND	28 59 23	081 21 16	01	82-05-11 82-09-13	13.44 15.40
285934081041801	85910401 USGS TEST WELL 10, S. OF SAMSULA	28 59 34	081 04 18	01	82-05-10 82-09-13	25.09 27.50
285934081041802	85910402 USGS WELL NEXT TO WELL#10, S.SAMSULA	28 59 34	081 04 18	02	82-05-10	28.74
285945080580001	85905801 NSB PS WELL NUMBERED 8 IN 1980,N.SMYRNA	28 59 45	080 58 00	01	82-05-09	7.95
285945080580002	85905804 4"OBS.WELL NEXT TO NSB PUB.SUP.WELL#8	28 59 45	080 58 00	02	82-05-10	12.34
285949080574701	85905708 NSB PS WELL NUMBERED 8 IN 1947,N.SMYRNA	28 59 49	080 57 47	01	82-05-10	10.68
285949080575001	85905703 NSB PS WELL NUMBERED 3 IN 1980,N.SMYRNA	28 59 49	080 57 50	01	82-05-09	6.66
285950080574601	85905707 NSB PS WELL NUMBERED 4 IN 1947,N.SMYRNA	28 59 50	080 57 46	01	82-05-10	10.37
285950080580101	85905803 4"OBS.WELL NEXT TO NSB PUB.SUP.WELL#7	28 59 50	080 58 01	01	82-05-10	10.85
285951080574701	85905705 NSB PS WELL NUMBERED 3 IN 1947,N.SMYRNA	28 59 51	080 57 47	01	82-05-10	10.70
285951080575101	85905702 NSB PS WELL NUMBERED 2 IN 1980,N.SMYRNA	28 59 51	080 57 51	01	82-05-09	2.07
285953080574701	85905709 NSB PS WELL NUMBERED 4 IN U.,/N.SMYRNA	28 59 50	080 57 47	01	82-05-10 82-09-15	10.69 4.03
285954080580101	85905802 4"OBS.WELL 300FT N.OF NSB PUB.SUPP. #7	28 59 54	080 58 01	01	82-05-10 82-09-15	10.85 3.88
290033081225501	90012204 SJRWMD WELL AT SR-44 AND ST JOHNS RIV.	29 00 33	081 22 55	01	82-05-11 82-09-13	15.40 17.22
290038081043801	90010403 4"OBS.WELL 100FT W.OF NSB#S1,SAMSULA	29 00 38	081 04 38	01	82-05-10 82-09-13	17.23 23.29
290047080593101	90005901 SERVICE STA.WELL SR44 & I-95,NSB	29 00 47	080 59 31	01	82-05-10 82-09-13	8.25 8.81
290102080564201	90105611 CITY TEST WELL,JUNGLE RD,NEW SMYRNA	29 01 02	080 56 42	01	82-05-10 82-09-14	5.60 6.62
290107081062001	90110602 USGS TEST WELL E 1, W.SAMSULA	29 01 07	081 06 20	01	82-05-10 82-09-13	31.76 34.39
290107081062002	90110603 USGS TEST WELL E-2,W.SAMSULA	29 01 07	081 06 20	02	82-05-10 82-09-13	40.10 40.28
290107081062003	90110604 USGS TEST WELL E 3, W.SAMSULA	29 01 07	081 06 20	03	82-05-10 82-09-13	30.20 32.74
290129081072901	90110701 USGS TEST WELL 8, W.SAMSULA	29 01 29	081 07 29	01	82-05-10 82-09-13	35.21 36.39
290138081203201	90112001 USGS J-1 TEST WELL,W.OF DELAND	29 01 38	081 20 32	01	82-05-11 82-09-13	9.56 12.81
290138081203202	90112002 USGS J-2 TEST WELL,W.OF DELAND	29 01 38	081 20 32	02	82-05-11 82-09-13	9.35 16.26
290141080540501	90105402 OLD WELL SW CORN.OF FLORIST SHOP N.S.B.	29 01 41	080 54 05	01	82-05-10 82-09-22	2.32 4.00

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1981 TO SEPTEMBER 1982

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VOLUSIA COUNTY--Continued

STATION NUMBER	STATION NAME	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF MEASURE- MENT	ELEV- ATION ABOVE NGVD (FEET)
290142081105901	90111001 USGS TEST WELL M, E.OF DELAND	29 01 42	081 10 59	01	82-05-10 82-09-13	36.85 38.05
290157080590401	90105901 P A MILLER PIONEER TRAIL,NSB	29 01 57	080 59 04	01	82-05-11 82-09-14	7.59 8.90
290225081040301	90210402 17S32E11 USGS TEST WELL 9,N.SAMSULA	29 02 25	081 04 03	01	82-05-11 82-09-13	21.56 23.11
290230081123401	90211203 USGS TEST HOLE 5, E. OF DELAND	29 02 30	081 12 34	01	82-05-10 82-09-13	35.26 36.21
290251081001401	90210001 USGS TEST WELL I,NE OF SAMSULA	29 02 51	081 00 14	01	82-05-11 82-09-14	13.00 14.16
290308081182301	90311801 DELAND P.S. WELL #7A, DELAND	29 03 08	081 18 23	01	82-05-10 82-09-13	12.76 16.46
290325080563401	90305601 NSB AIRPORT WELL, NEW SMYRNA	29 03 25	080 56 34	01	82-05-11 82-09-14	3.23 4.03
290447081102301	90411004 I-4 DEEP WELL, E OF DELAND	29 04 47	081 10 23	01	82-05-10 82-09-17	37.05 37.86
290447081102305	90411005 USGS I-4 SHAL WELL,N.OF LAKE HELEN	29 04 47	081 10 23	05	82-05-10 82-09-17	39.13 39.97
290456081044401	90410404 USGS TEST WELL 7, W. OF ALLANDALE	29 04 56	081 04 44	01	82-05-11 82-09-17	19.98 21.16
290517081193601	90511902 16S30E19 MCDONALDS 15A+US17 WELL DLSP	29 05 17	081 19 36	01	82-05-11 82-09-14	19.79 24.18
290527081215001	90512109 ADAM'S LEMMON ST WELL, GLENWOOD	29 05 27	081 21 50	01	82-05-11 82-09-14	14.58 17.73
290534081175001	90511701 USGS TEST WELL F1, N. OF DELAND, SR11	29 05 34	081 17 50	01	82-05-10 82-09-15	35.44 38.01
290534081175002	90511702 USGS TEST WELL F 2, N. OF DELAND, SR11	29 05 34	081 17 50	02	82-05-10 82-09-15	34.08 36.72
290534081175003	90511703 USGS TEST WELL F 3, N. OF DELAND, SR11	29 05 34	081 17 50	03	82-05-10 82-09-15	60.81 62.23
290550081162601	90511601 LAWRENCE WELL, LAKE DAUGHARTY	29 05 50	081 16 26	01	82-05-10 82-09-15	38.94 40.71
290626081013701	90610102 SERVICE STA.WELL AT TAYLOR RD + I-95	29 06 26	081 01 37	01	82-05-11 82-09-17	3.60 5.61
290651080582802	90605814 HARBOUR OAKS SUP.WELL,ALLANDALE	29 06 51	080 58 28	02	82-05-11 82-09-17	2.48 4.29
290708081233101	90712301 SJRWMD 4"WELL 2MI SW OF PONCE DEL SPGS	29 07 08	081 23 31	01	82-05-11 82-09-15	10.23 12.10
290723081210601	90712103 16S29E39 4" WELL,ELEM SCL,DELEON SPGS	29 07 23	081 21 06	01	82-05-11 82-09-14	11.08 12.50
290737081220301	90712201 HAGSTROM IRRIG WELL, W OF DELEON SPGS	29 07 37	081 22 03	01	82-05-11 82-09-14	7.80 9.35
290748081184201	90711801 16S30E05 THOMAS WELL 2MI E OF DEL.SPG	29 07 48	081 18 42	01	82-05-11 82-09-15	35.52 37.85
290806081013901	90810115 CITY OBS.WELL #2,WELLFIELD,P.ORANGE	29 08 06	081 01 39	01	82-05-11 82-09-17	1.95 2.64
290831081021201	90810201 SOD FARM WELL,CLYDE MORRIS+MADELINE,PO	29 08 31	081 02 12	01	82-05-11 82-09-17	-1.10 0.50
290845081013801	90810110 PORT ORANGE P.S. WELL #11, PORT ORANGE	29 08 45	081 01 38	01	82-05-11	-3.33
290850081190101	90811901 15S30E32 SHELDONS WELL N OF DEL.SP.HT	29 08 50	081 19 01	01	82-05-11 82-09-15	29.44 31.53
290922081060901	90910607 USGS 1.25"WELL,US92,SW OF DAYTONA	29 09 22	081 06 09	01	82-05-12	21.60
290923081174301	90911701 15S30E33 WELL OFF SR11 .7MI S OF L.DIA	29 09 23	081 17 43	01	82-05-11 82-09-15	35.29 36.78

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1981 TO SEPTEMBER 1982

VOLUSIA COUNTY--Continued

STATION NUMBER	STATION NAME	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF MEASURE- MENT	ELEV- ATION ABOVE NGVD (FEET)
290928080594401	90905904 WELL AT REED CANAL+US1,S DAYTONA	29 09 28	080 59 44	01	82-05-11 82-09-17	-1.14 1.20
290930081230201	90912303 15S29E34 WELL NR SHACK 3MI SE/BARBERVI	29 09 30	081 23 02	01	82-05-11 82-09-14	15.00 15.93
291003081045601	91010401 2"WELL AT BELLEVUE + I95,SW DAYTONA	29 10 03	081 04 56	01	82-05-12	0.35
291004081111301	91011101 MILE W.DP WELL,TGR BAY,W OF DAYTONA	29 10 04	081 11 13	01	82-05-11 82-09-17	27.24 27.98
291004081111302	91011102 MILE W.MID-DEPTH WELL,T.B.,W.OF DAYTONA	29 10 04	081 11 13	02	82-05-11 82-09-17	36.36 36.80
291004081111303	91011103 MILE W.SHAL WELL,T.B.,W.OF DAYTONA	29 10 04	081 11 13	03	82-05-11 82-09-17	35.31 36.39
291009081205801	91012002 BLACKWELDER W WELL, DELEON SPGS	29 10 09	081 20 58	01	82-05-11	28.26
291032081065201	91010601 DAYTONA P.S. WELL #49, SW OF DAYTONA	29 10 32	081 06 52	01	82-05-12 82-09-17	10.27 11.50
291036081175801	91011701 HENDRIX WELL ON SR11, E OF BARBERVILLE	29 10 36	081 17 58	01	82-05-11 82-09-15	30.98 32.46
291052081200901	91012007 15S30E19 CAMP WINONA WELL N OF DEL.SP	29 10 52	081 20 09	01	82-05-11 82-09-14	28.43 30.04
291056081252401	91012502 15S29E20 BARBERV WELL NR NASSER'S WELL	29 10 56	081 25 24	01	82-05-11 82-09-16	22.36 24.05
291103081022001	91110204 6"WELL AT BELLEVUE MEM.CEMETERY,DAYTONA	29 11 03	081 02 20	01	82-05-12	0.70
291109081051601	91110501 DAYTONA P.S. WELL #45, DAYTONA	29 11 09	081 05 16	01	82-05-12	-3.14
291139081032401	91110305 DAYTONA P.S. WELL #34, DAYTONA	29 11 39	081 03 24	01	82-05-12 82-09-17	-2.42 0.70
291149081190801	91111901 15S30E17 L.BLACKWELDERS WELL CLIFTONR	29 11 49	081 19 08	01	82-05-11 82-09-15	26.08 27.45
291150081282501	91112806 15S28E14 HARPERS WELL E OF MURPHY RD	29 11 50	081 28 25	01	82-05-12 82-09-15	29.41 31.62
291155081022901	91210237 DAYTONA P.S. WELL #32, TUSC., DAYTONA	29 11 55	081 02 29	01	82-05-12 82-09-17	-2.67 0.70
291216081215601	91212101 STRWMD TEST WELL, SR40, E OF BARBERVILL	29 12 16	081 21 56	01	82-09-15	26.19
291221081235101	91212306 15S29E09 RICHARDSONS WELL NE/BARBERVI	29 12 21	081 23 51	01	82-05-11 82-09-15	24.96 26.91
291229081012901	91210119 CHARLES ST 4" WELL,DAYTONA BCH,FL	29 12 29	081 01 29	01	82-05-12 82-09-17	-2.98 0.18
291258081313701	91213103 4" SUPPLY WELL,SE L.GEORGE,NR EMPORIA	29 12 58	081 31 37	01	82-05-12 82-09-15	6.22 7.68
291302081063801	91310601 USGS WELL, SITE 2, W. OF DAYTONA	29 13 02	081 06 38	01	82-05-12 82-09-17	8.09 10.62
291315081270301	91312701 15S28E01 MCLAUGHLIN'S 2"WELL,S PIERSON	29 13 15	081 27 03	01	82-05-12 82-09-15	26.56 29.42
291332081191001	91311903 USED 425	29 13 32	081 19 10	01	82-05-11 82-09-15	30.38 31.75
291344081155701	91311501 UNION CAMP DP WELL NEAR BARBERVILLE, FL	29 13 44	081 15 57	01	82-05-12 82-09-15	27.71 28.97
291347081284701	91312807 14S28E33 CLINE'S WELL W PIERSON	29 13 47	081 28 47	01	82-05-12 82-09-15	27.39 30.01
291418081032001	91410301 WELL S.OF 11TH ST,E.OF CAN.RD, HOLLY HI	29 14 18	081 03 20	01	82-05-12 82-09-17	-2.73 0.48
291421081012202	91410107 OLD P.S. WELL, SEABREEZE #7, DAYTONA	29 14 21	081 01 22	02	82-05-12 82-09-17	-4.24 -2.54
291425081024502	91410215 HOLLY HILL P.S. WELL #8A, HOLLY HILL	29 14 25	081 02 45	02	82-05-12	-3.11

MISCELLANEOUS WATER LEVEL MEASUREMENTS
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VOLUSIA COUNTY--Continued

STATION NUMBER	STATION NAME	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF MEASURE- MENT	ELEV- ATION ABOVE NGVD (FEET)
291431081263101	91412611 14S28E35 SJRWMD TURNER RD WELL PIERSO	29 14 31	081 26 31	01	82-05-12 82-09-15	29.85 34.92
291433081284102	91412818 SJRWMD DEEP TEST WELL NEXT TO 91412801	29 14 33	081 28 41	02	82-05-12 82-09-15	22.94 25.86
291436081024701	91410216 HOLLY HILL P.S. WELL #9, HOLLY HILL	29 14 36	081 02 47	01	82-05-12 82-09-17	-2.50 -0.92
291458081294201	91412901 SJRWMD WELL 1.0 MI W OF PIERSON	29 14 58	081 29 42	01	82-05-12 82-09-15	17.71 20.15
291508081302801	91513001 SJRWMD WELL 2 MI W OF PIERSON	29 15 08	081 30 28	01	82-05-12 82-09-15	12.91 14.95
291523081095001	91510902 USGS WELL #1,SR40,W.OF ORMOND	29 15 23	081 09 50	01	82-05-12 82-09-16	17.35 18.70
291524081243501	91512401 14S29E30 2"WELL,NE OF PIERSON,NR RUINS	29 15 24	081 24 35	01	82-05-12 82-09-15	25.36 27.65
291527081064701	91510606 4"OBS.WELL;WILLIAMSON + SR40,W.ORMOND	29 15 27	081 06 47	01	82-05-13 82-09-16	1.05 3.70
291543081320601	91513201 DEADMANS LANDING WELL,W.OF PIERSON	29 15 43	081 32 06	01	82-05-12 82-09-15	6.23 8.18
291607081042301	91610408 ORMOND P.S. WELL #12, ORMOND BEACH	29 16 07	081 04 23	01	82-05-13 82-09-17	-10.17 -7.55
291610081041801	91610407 ORMOND P.S. WELL #11, ORMOND BEACH	29 16 10	081 04 18	01	82-05-13	-5.23
291614081040601	91610405 ORMOND P.S. WELL #9, ORMOND BEACH	29 16 14	081 04 06	01	82-05-13	-5.40
291618081040401	91610403 ORMOND P.S. WELL #7, ORMOND BEACH	29 16 18	081 04 04	01	82-05-13	-7.27
291618081042201	91610415 ORMOND P.S. WELL #20, ORMOND BEACH	29 16 18	081 04 22	01	82-05-13	-6.54
291626081283601	91612801 14S28E16 CONNERSVILL WELL,N OF PIERSON	29 16 26	081 28 36	01	82-05-12 82-09-16	24.01 26.29
291710081042101	91710401 NORTH ORCHARD ST. WELL, ORMOND BEACH	29 17 10	081 04 21	01	82-05-13 82-09-17	-6.09 -4.04
291712081032102	91710301 ORMOND, W.END OF INTERCOAST.BRIDGE	29 17 12	081 03 21	02	82-05-13 82-09-17	-5.39 -3.50
291737081265501	91712602 14S28E11 BOCKS 4"WELL SE SEVILLE	29 17 37	081 26 55	01	82-05-12 82-09-16	19.41 21.35
291802081024501	91810202 NEPTUNE AVE.GOLF CRS WELL, ORMOND	29 18 02	081 02 45	01	82-05-13 82-09-17	-1.60 -0.31
291835081324201	91813201 USED 426 PINE ISLAND, W.OF SEVILLE	29 18 35	081 32 42	01	82-05-12 82-09-16	5.59 7.24
291903081294601	91912901 13S28E32 OLD SEVILLE WELL	29 19 03	081 29 46	01	82-05-12 82-09-16	24.41 25.87
291904081055501	91910504 TOMOKA ESTATES 2" WELL NW OF ORMOND	29 19 04	081 05 55	01	82-05-13 82-09-16	1.95 4.10
292016081305401	92013001 13S28E30 MCBRIDE'S 12"WELL,NW SEVILLE	29 20 16	081 30 54	01	82-05-12 82-09-16	28.05 29.61
292053081084701	92010803 13S31E26 US1 6"WEL.45MI FRM FLAGLER CO	29 20 53	081 08 47	01	82-05-13 82-09-16	15.90 17.36
292105081281201	92112801 13S28E22 WELL NE/SEVIL NEXT TO OLDBLDG	29 21 05	081 28 12	01	82-05-12 82-09-16	14.59 16.21
292128081295401	92112902 13S28E20 HERREN'S 4"WELL,N OF SEVILLE	29 21 28	081 29 54	01	82-05-12 82-09-16	31.98 34.28
292245081074801	92210701 WELL,S.OF ORM.TOMB, NATL.GARDENS	29 22 45	081 07 48	01	82-05-13 82-09-16	6.05 7.61
292405081065001	92410603 HIGHBRIDGE RD.+MOUND GROVE WELL, NE VOL	29 24 05	081 06 50	01	82-05-13	3.27
292418081080501	92410801 HIGHBRIDGE RD.& DIXIE HWY WELL	29 24 18	081 08 05	01	82-05-13 82-09-16	3.94 4.79

GROUND WATER QUALITY RECORDS
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VOLUSIA COUNTY

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS) (90095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
284736080515101 - 84705106 COUNTY LINE WELL NR MAYTOWN,FL (LAT 28 47 36 LONG 080 51 51)				
DEC , 1981				
18...	1205	3400	3600	1000
284821081075501 - 84810701 LEMON BLF FSH CMP WELL,S.OF OSTEEN,FL (LAT 28 48 21 LONG 081 07 55)				
JAN , 1982				
26...	1115	11200	12400	4000
284822080573501 - 84805701 C.H.CLARK WELL IN MAYTOWN,FL (LAT 28 48 22 LONG 080 57 35)				
JAN , 1982				
26...	1315	320	595	35
284846081114001 - 84811102 #1 SHAL WELL,SR415 N.OF RVR.NR OSTEEN (LAT 28 48 46 LONG 081 11 14)				
JUL , 1982				
26...	1530	1800	2000	430
284846081114002 - 84811103 #2 SHAL WELL,SR415 N.OF RVR.NR OSTEEN (LAT 28 48 46 LONG 081 11 40)				
JUL , 1982				
29...	1155	1750	1830	510
284857081081201 - 84810801 LEMON BLUFF WATER ASSOC., S. OF OSTEEN (LAT 28 48 57 LONG 081 08 12)				
JAN , 1982				
26...	1110	1110	940	120
284902081112001 - 84911101 FLOW WELL,N.OF RIVER,S.OF OSTEEN (LAT 28 49 02 LONG 081 11 20)				
DEC , 1981				
18...	1620	2600	2750	770
285011081094601 - 85010902 DUREN AVE WELL IN OSTEEN (LAT 28 50 11 LONG 081 09 46)				
APR , 1982				
20...	1150	230	250	11
285016081014101 - 85010102 USGS WELL NEAR COW CREEK,W. OF MAYTOWN (LAT 28 50 16 LONG 081 01 41)				
DEC , 1981				
22...	1115	560	670	44
285023081191801 - 85011825 MONROE BOAT BOWL WELL S.OF DEBARY (LAT 28 50 23 LONG 081 19 18)				
APR , 1982				
19...	1130	1400	1560	360
285032081191201 - 85011813 W H HAWKINS WELL,BENS.JUNC.,S.OF DEBARY (LAT 28 50 32 LONG 081 19 12)				
APR , 1982				
19...	1045	1300	1420	330

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

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VOLUSIA COUNTY--Continued

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS) (90095)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL) (00940)
285040081192001 - 85011809 USED 416 WELL,BENS.JUNC., S. OF DEBARY (LAT 28 50 40 LONG 081 19 20)				
JAN , 1982				
26...	1430	1620	1570	450
285040081192101 - 85011821 STEWART WELL,U.S.17,S.OF DEBARY (LAT 28 50 40 LONG 081 19 21)				
APR , 1982				
22...	1700	1800	2050	480
285045081063501 - 85010603 TURNER FMS.WELL,E.OF OSTEEN (LAT 28 50 45 LONG 081 06 35)				
APR , 1982				
14...	1515	620	640	35
285122081205401 - 85112004 FT.FLORIDA RD FLOW WELL,SW.OF DEBARY (LAT 28 51 22 LONG 081 20 54)				
APR , 1982				
21...	1345	1700	1900	450
285126081134601 - 85111308 POOLE WELL,ENTERP-OSTEEN RD.ENTERPRISE (LAT 28 51 26 LONG 081 13 46)				
JAN , 1982				
26...	1030	730	860	140
285131081135101 - 85111306 WELL,GARFIELD+ENTERPRISE RDS,ENTERPRISE (LAT 28 51 31 LONG 081 13 51)				
APR , 1982				
20...	1410	420	360	19
285137081144501 - 85111403 ENTERPRISE RD .85MI W OF GAR,ENTERPRISE (LAT 28 51 37 LONG 081 14 45)				
APR , 1982				
20...	1620	1600	2000	500
285143081191001 - 85111903 US17&92 SHAL WELL S.OF DEBARY (LAT 28 51 43 LONG 081 19 10)				
JUL , 1982				
19...	1610	95	96	4.7
285149081151401 - 85111402 FLOW WELL N OF OSTEEN RD (LAT 28 51 49 LONG 081 15 14)				
DEC , 1981				
18...	1055	--	640	100
285221081095001 - 85210901 USGS TEST WELL G-1, N. OF OSTEEN , FL (LAT 28 52 21 LONG 081 09 50)				
JAN , 1982				
26...	1200	360	372	11
285226081160601 - 85211501 ENTERPRISE+CLARK RD S WELL,ENTERPRISE (LAT 28 52 26 LONG 081 16 06)				
APR , 1982				
21...	1030	410	425	13

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

VOLUSIA COUNTY--Continued

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS) (90095)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL) (00940)
285253081141301 - 85211401 DELT. P.S. WELL #14, SAXON BLVD, DELTONA (LAT 28 52 53 LONG 081 14 13)				
MAR , 1982				
29...	1030	770	795	170
AUG				
24...	0840	--	358	42
285259081132101 - 85211301 DELT. P.S. WELL #5, SAXON, DELTONA (LAT 28 52 59 LONG 081 13 21)				
APR , 1982				
13...	1100	660	660	99
285340081140801 - 85311401 DELT. P.S. WELL #12, HOLLYHOCK, DELTONA (LAT 28 53 40 LONG 081 14 08)				
APR , 1982				
13...	1115	410	406	67
AUG				
24...	0840	--	395	70
285348081140801 - 85311402 DELT. P.S. WELL #9, SAXON BLVD, DELTONA (LAT 28 53 48 LONG 081 14 08)				
MAR , 1982				
29...	1025	970	1020	240
AUG				
24...	0835	--	660	120
285352081141001 - 85311403 DELT. P.S. WELL #16, DELTONA (LAT 28 53 52 LONG 081 14 10)				
MAR , 1982				
29...	1040	970	1020	240
AUG				
24...	0845	--	645	130
285359081161701 - 85311601 DELT. P.S. WELL #3, DIAMOND ST, DELTONA (LAT 28 53 59 LONG 081 16 17)				
MAR , 1982				
29...	1010	290	306	19
AUG				
24...	0815	--	279	10
285406081152301 - 85411501 DELT. P.S. WELL #6, FIRE STA., DELTONA (LAT 28 54 06 LONG 081 15 23)				
APR , 1982				
13...	1105	330	332	22
AUG				
24...	0825	--	306	18
285410081152301 - 85411502 DELT. P.S. WELL #8, FIRE STA., DELTONA (LAT 28 54 10 LONG 081 15 23)				
APR 1982				
13...	1110	410	415	49
AUG				
24...	0830	--	275	12

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

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VOLUSIA COUNTY--Continued

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS) (90095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
285416081154401 - 85411504 DELT. P.S. WELL #2, WELLINGTON, DELTONA (LAT 28 54 16 LONG 081 15 44)				
MAR , 1982				
29...	1005	510	520	79
AUG				
24...	0805	--	323	24
285419081153901 - 85411505 DELT. P.S. WELL #1, WELLINGTON, DELTONA (LAT 28 54 19 LONG 081 15 39)				
MAR , 1982				
29...	1000	300	305	23
AUG				
24...	0800	--	283	16
285512081202802 - 85512002 SHAL USGS WELL U..MI S.OF BLUE SPRINGS (LAT 28 55 12 LONG 081 20 28)				
JUL , 1982				
15...	1400	68	58	4.6
285525081143301 - 85511401 DELT. P.S. WELL #4, ELKCAM BLVD,DELTONA (LAT 28 55 25 LONG 081 14 33)				
MAR , 1982				
29...	1015	530	550	105
AUG				
24...	0820	--	540	110
285631081105201 - 85611001 DELT. P.S. WELL #15, COURTLAND, DELTONA (LAT 28 56 31 LONG 081 10 52)				
MAR , 1982				
29...	1035	420	427	30
285634081105301 - 85611002 DELT. P.S. WELL #17, COURTLAND, DELTONA (LAT 28 56 34 LONG 081 10 53)				
MAR , 1982				
29...	1045	320	324	9.0
285638081175501 - 85611705 ORAN.CITY P.S.WELL #4,ORANGE CITY (LAT 28 56 38 LONG 081 17 55)				
MAR , 1982				
23...	1420	340	334	19
285641081175502 - 85611704 ORAN.CITY P.S.WELL #2,ORANGE CITY (LAT 28 56 41 LONG 081 17 55)				
DEC , 1981				
18...	0915	480	442	18
285655081165601 - 85611601 USGS TEST WELL A-1,ORANGE CITY EAST (LAT 28 56 55 LONG 081 16 56)				
DEC , 1981				
18...	1045	280	280	10
285700081021001 - 85710201 USGS TEST WELL 11,E. OF LK. ASHBY (LAT 28 57 00 LONG 081 02 10)				
DEC , 1981				
11...	1200	500	455	14

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

VOLUSIA COUNTY--Continued

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS) (90095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
285716081053901 - 85710502 USGS TEST WELL 12, N.OF LK.ASHBY (LAT 28 57 16 LONG 081 05 39)				
DEC , 1981				
11...	1100	650	575	26
285852080561401 - 85805601 EDGEWATER P.S. WELL #3, W. OF EDGEWATER (LAT 28 58 52 LONG 080 56 14)				
MAR , 1982				
22...	1155	720	730	58
285858080555701 - 85805501 EDGEWATER P.S. WELL #2, W. OF EDGEWATER (LAT 28 58 58 LONG 080 55 57)				
MAR , 1982				
22...	1150	1020	1050	160
285904080554601 - 85905504 EDGEWATER P.S. WELL #1, W. OF EDGEWATER (LAT 28 59 04 LONG 080 55 46)				
MAR , 1982				
22...	1145	1100	1200	210
285920081211801 - 85912013 203B ST.JOHNS RD WELL,SW OF DELAND (LAT 28 59 20 LONG 081 21 18)				
APR , 1982				
22...	1215	2800	3250	860
285923081211601 - 85912012 ST.JOHNS RD+HONTOON RD WELL,SW OF DELND (LAT 28 59 23 LONG 081 21 16)				
APR , 1982				
22...	1240	2800	3200	840
285934081041801 - 85910401 USGS TEST WELL 10, S. OF SAMSULA (LAT 28 59 34 LONG 081 04 18)				
DEC , 1981				
11...	1030	625	605	12
285945080580001 - 85905801 NSB PS WELL NUMBERED 8 IN 1980,N.SMYRNA (LAT 28 59 45 LONG 080 58 00)				
MAR , 1982				
22...	1100	690	700	51
285951080575101 - 85905702 NSB PS WELL NUMBERED 2 IN 1980,N.SMYRNA (LAT 28 59 51 LONG 080 57 51)				
MAR , 1982				
22...	1105	820	830	94
290021081213301 - 90012106 130 LAKESIDE DR WELL,SW OF DELAND (LAT 29 02 21 LONG 081 21 33)				
APR , 1982				
22...	1300	4600	5200	1500
290027081225001 - 90012201 FLOW WELL IN ST.JOHNS RIVER S.OF SR44 (LAT 29 00 27 LONG 081 22 50)				
APR , 1982				
22...	1400	3300	3750	1000

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

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VOLUSIA COUNTY--Continued

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS) (90095)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL) (00940)
290029081223601 - 90012205 SHAL WELL,OLD SR44, SW OF DELAND (LAT 29 00 29 LONG 081 22 36)				
JUL , 1982 19...	1345	640	638	15
290039081204601 - 90012021 L.BERESFORD P.S. WELL #2, SW OF DELAND (LAT 29 00 39 LONG 081 20 46)				
AUG , 1982 24...	1310	--	315	24
290039081204701 - 90012022 L.BERESFORD P.S. WELL #1, SW OF DELAND (LAT 29 00 39 LONG 081 20 47)				
AUG , 1982 24...	1305	--	875	170
290040081050101 - 90010501 NSB P.S. WELL #S3, SAMSULA (LAT 29 00 40 LONG 081 05 01)				
MAR , 1982 22...	1050	550	535	13
290047081052301 - 90010503 NSB P.S. WELL #S5, SAMSULA (LAT 29 00 47 LONG 081 05 23)				
MAR , 1982 22...	1040	510	498	9.0
290056081210801 - 90012109 RR TRACK SHAL WELL,OLD SR44,SW OF DLAND (LAT 29 00 56 LONG 081 21 08)				
JUL , 1982 16...	1600	38	30	2.0
290102080564201 - 90105611 CITY TEST WELL,JUNGLE RD,NEW SMYRNA (LAT 29 01 02 LONG 080 56 42)				
DEC , 1981 18...	1400	1300	1390	290
290114081223601 - 90112201 ZEIGLER DEAD R.WELL,W. OF DELAND (LAT 29 01 14 LONG 081 22 36)				
APR , 1982 22...	1530	6100	6800	2000
290129081072901 - 90110701 USGS TEST WELL 8, W.SAMSULA (LAT 29 01 29 LONG 081 07 29)				
DEC , 1981 11...	0845	800	730	44
290138081203201 - 90112001 USGS J-1 TEST WELL,W.OF DELAND (LAT 29 01 38 LONG 081 20 32)				
AUG , 1982 26...	1130	290	292	15
290138081203202 - 90112002 USGS J-2 TEST WELL,W.OF DELAND (LAT 29 01 38 LONG 081 20 32)				
AUG , 1982 26...	1200	1300	1360	300

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

VOLUSIA COUNTY--Continued

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS) (90095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
290139081182401 - 90111701 DELAND P.S. WELL #2, DELAND (LAT 29 01 39 LONG 081 18 24)				
AUG , 1982				
20...	1400	--	355	18
290142081105901 - 90111001 USGS TEST WELL M, E.OF DELAND (LAT 29 01 42 LONG 081 10 59)				
DEC , 1981				
14...	1030	420	610	42
290156081183401 - 90111802 DELAND P.S. WELL #4, DELAND (LAT 29 01 56 LONG 081 18 34)				
AUG , 1982				
20...	1410	--	365	20
290156081183501 - 90111801 DELAND P.S. WELL #3, DELAND (LAT 29 01 56 LONG 081 18 35)				
MAR , 1982				
23...	1400	400	393	35
AUG				
20...	1405	--	403	33
290156081192701 - 90111902 DELAND P.S. WELL #8, DELAND (LAT 29 01 56 LONG 081 19 27)				
MAR , 1982				
23...	1410	310	300	16
AUG				
20...	1430	--	279	12
290157081192701 - 90111901 PARRISH CONCRETE WELL, DELAND (LAT 29 01 57 LONG 081 19 27)				
DEC , 1981				
16...	1505	260	280	12
290208081172401 - 90211702 DELAND P.S. WELL #6A, DELAND (LAT 29 02 08 LONG 081 17 24)				
AUG , 1982				
20...	1420	--	304	11
290215081153601 - 90211501 TROPICAL TERR. SHAL WELL, E. DELAND (LAT 29 02 15 LONG 081 15 36)				
APR , 1982				
13...	1720	90	112	13
290219081190601 - 90211901 DELAND P.S. WELL #5, DELAND (LAT 29 02 19 LONG 081 19 06)				
AUG , 1982				
20...	1415	--	305	12
290225081040301 - 90210402 17S32E11 USGS TEST WELL 9, N. SAMSULA (LAT 29 02 25 LONG 081 04 03)				
DEC , 1981				
11...	0920	575	520	11

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

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VOLUSIA COUNTY--Continued

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS) (90095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
290251081001401 - 90210001 USGS TEST WELL I,NE OF SAMSULA (LAT 29 02 51 LONG 081 00 14)				
DEC , 1981				
14...	1200	900	1250	280
290308081182301 - 90311801 DELAND P.S. WELL #7A, DELAND (LAT 29 03 08 LONG 081 18 23)				
MAR , 1982				
23...	1405	380	382	14
AUG				
20...	1425	--	370	13
290339081031201 - 90310304 E E CARTER WELL N.OF SAMSULA (LAT 29 03 39 LONG 081 03 12)				
DEC , 1981				
14...	1105	550	540	21
290347081221201 - 90312102 WELL NR FISH CAMP,W.OF GLENWOOD (LAT 29 03 47 LONG 081 22 12)				
DEC , 1981				
16...	1445	520	585	32
290447081102305 - 90411005 USGS I-4 SHAL WELL,N.OF LAKE HELEN (LAT 29 04 47 LONG 081 10 23)				
MAR , 1982				
03...	1020	--	345	41
290456081044401 - 90410404 USGS TEST WELL 7, W. OF ALLANDALE (LAT 29 04 56 LONG 081 04 44)				
DEC , 1981				
11...	1350	800	700	74
290541081132902 - 90511304 USGS 04 DP TEST W. NR. DELAND,FL.6"CSG (LAT 29 05 41 LONG 081 13 29)				
AUG , 1982				
26...	1445	460	466	14
290541081132903 - USGS 05 DP NR DELAND, FL. (LAT 29 05 41 LONG 081 13 29)				
AUG , 1982				
26...	1350	560	550	32
290622081221501 - 90612201 SHAL WELL,SPRING GRDN LK, DELEON SPGS (LAT 29 06 22 LONG 081 22 15)				
JUL , 1982				
16...	1430	200	210	46
290653081200301 - 90612002 16S30E18,TRAILER COURT, DELEON SPGS (LAT 29 06 53 LONG 081 20 03)				
APR , 1982				
14...	1110	370	376	8.2

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

VOLUSIA COUNTY--Continued

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS) (90095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
290658081162701 - 90611601 L.DAUGHARTY SHAL WELL, N. OF DELAND (LAT 29 06 58 LONG 081 16 27)				
APR , 1982				
13...	1605	80	90	14
290712081231101 - 90712302 SHAL WELL U.MMI SW OF PONCE DE LEON SPG (LAT 29 07 12 LONG 081 23 11)				
JUL , 1982				
20...	1540	200	168	40
290742081013901 - 90810103 PORT ORANGE P.S. WELL #4, PORT ORANGE (LAT 29 08 09 LONG 081 01 39)				
MAR , 1982				
22...	1300	690	695	83
290752081220901 - 90712102 8"FLOW WELL W.OF DELEON SPRINGS (LAT 29 07 52 LONG 081 22 09)				
DEC , 1981				
15...	1340	11400	11600	3800
APR , 1982				
14...	1030	10000	12200	4000
290804081215601 - 90712101 12" FLOW W OF DELEON SPRINGS (LAT 29 08 04 LONG 081 21 56)				
DEC , 1981				
15...	1310	1650	1840	510
APR , 1982				
14...	1020	2500	2600	720
290813081013801 - 90810104 PORT ORANGE P.S. WELL #5, PORT ORANGE (LAT 29 08 13 LONG 081 01 38)				
MAR , 1982				
22...	1305	720	725	85
290818081013801 - 90810105 PORT ORANGE P.S. WELL #6, PORT ORANGE (LAT 29 08 18 LONG 081 01 38)				
MAR , 1982				
22...	1310	670	675	58
290835081013801 - 90810108 PORT ORANGE P.S. WELL #9, PORT ORANGE (LAT 29 08 35 LONG 081 01 38)				
MAR , 1982				
22...	1315	670	680	59
290840081013801 - 90810109 PORT ORANGE P.S. WELL #10, PORT ORANGE (LAT 29 08 40 LONG 081 01 38)				
MAR , 1982				
22...	1320	710	720	66
290846081014401 - 90810111 PORT ORANGE P.S. WELL #12, PORT ORANGE (LAT 29 08 46 LONG 081 01 44)				
MAR , 1982				
22...	1325	770	780	72

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

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VOLUSIA COUNTY--Continued

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS) (90095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
290846081014901 - 90810112 PORT ORANGE P.S. WELL #13, PORT ORANGE (LAT 29 08 46 LONG 081 01 49)				
MAR , 1982				
22...	1330	810	--	84
290846081015501 - 90810113 PORT ORANGE P.S. WELL #14, PORT ORANGE (LAT 29 08 46 LONG 081 01 55)				
MAR , 1982				
22...	1335	760	765	63
290846081020101 - 90810202 PORT ORANGE P.S. WELL #15, PORT ORANGE (LAT 29 08 46 LONG 081 02 01)				
MAR , 1982				
22...	1340	760	760	63
290846081020701 - 90810203 PORT ORANGE P.S. WELL #16, PORT ORANGE (LAT 29 08 46 LONG 081 02 07)				
MAR , 1982				
22...	1345	760	760	61
290917081222201 - 90912203 DAWSON BRN FLOW WELL SE OF BARBERVILLE (LAT 29 09 17 LONG 081 22 22)				
APR , 1982				
14...	1000	270	275	11
290920081063001 - 90910601USGS OBSER NR DAYTONA BEACH, FL. (LAT 29 09 20 LONG 081 06 30)				
DEC , 1981				
14...	1315	700	700	32
290920081063002 - 90910609USGS 2-INCH OBSER W. NR DAYTONA BEACH,FL (LAT 29 09 23 LONG 081 06 12)				
DEC , 1981				
14...	1400	620	630	33
290959081231601 - 90912301 DAIRY FLOW WELL #1,SW OF BARBERVILLE (LAT 29 09 59 LONG 081 23 16)				
DEC , 1981				
16...	1400	1500	1690	450
APR , 1982				
14...	0930	1600	1710	440
2910040811111301 - 91011101 MILE W.DP WELL,TGR BAY,W OF DAYTONA (LAT 29 10 04 LONG 081 11 13)				
MAR , 1982				
09...	1230	--	650	41
09...	1500	--	640	39
2910040811111303 - 91011103 MILE W.SHAL WELL,T.B.,W.OF DAYTONA (LAT 29 10 04 LONG 081 11 13)				
MAR , 1982				
09...	1215	--	180	12
09...	1500	--	170	13

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

VOLUSIA COUNTY--Continued

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS) (90095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
291008081304801 - 90913001 GALZERANO WELL NR ASTOR, FL (LAT 29 10 08 LONG 081 30 48)				
JUN , 1982				
22...	1420	360	346	9.2
291025081050201 - 91010501 USGS OBSER NR I-95 AT DAYTONA BCH., FL (LAT 29 10 25 LONG 081 05 02)				
AUG , 1982				
27...	1430	650	660	35
291032081065201 - 91010601 DAYTONA P.S. WELL #49, SW OF DAYTONA (LAT 29 10 32 LONG 081 06 52)				
MAR , 1982				
22...	1525	600	580	31
AUG				
20...	1000	--	605	36

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

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VOLUSIA COUNTY--Continued

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS) (90095)	PH (STAND- ARD UNITS) (00400)	PH LAB (STAND- ARD UNITS) (00403)	TEMPER- ATURE (DEG C) (00010)	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)
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291036081175801 - 91011701 HENDRIX WELL ON SR11, E OF BARBERVILLE (LAT 29 10 36 LONG 081 17 58)

FEB , 1982									
17...	1200	325	1190	7.0	7.6	22.0	56	2.4	7.3

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFIDE DIS- SOLVED (MG/L AS S) (00746)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)
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291036081175801 - 91011701 HENDRIX WELL ON SR11, E OF BARBERVILLE (LAT 29 10 36 LONG 081 17 58)

FEB , 1982									
17...	.9	154	160	.3	.8	8.8	.4	11	181

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	CARBON- 14,DISS AP- PARENT AGE (YEARS BP) (28004)	C-13/ C-12 STABLE ISOTOPE RATIO PER MIL (82081)	H-2/ H-1/ STABLE ISOTOPE RATIO PER MILL (82082)	O-18/ O-16 STABLE ISOTOPE RATIO PER MIL (82085)	CARBON 14 PERCENT MODERN (82172)
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291036081175801 - 91011701 HENDRIX WELL ON SR11, E OF BARBERVILLE (LAT 29 10 36 LONG 081 17 58)

FEB , 1982									
17...	<.01	410	9	270	8600	-10.0	-23.0	-3.7	34.4

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

VOLUSIA COUNTY--Continued

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS) (90095)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL) (00940)
291047081061301 - 91010602 DAYTONA P.S. WELL #48, SW OF DAYTONA (LAT 29 10 47 LONG 081 06 13)				
MAR , 1982				
22...	1520	620	620	33
AUG				
20...	0945	--	630	34
291101081053601 - 91110505 DAYTONA P.S. WELL #47, DAYTONA (LAT 29 11 01 LONG 081 05 36)				
AUG , 1982				
20...	1030	--	580	33
291105081052301 - 91110504 DAYTONA P.S. WELL #46, DAYTONA (LAT 29 11 05 LONG 081 05 23)				
AUG , 1982				
20...	1040	--	1140	230
291109081051601 - 91110501 DAYTONA P.S. WELL #45, DAYTONA (LAT 29 11 09 LONG 081 05 16)				
AUG , 1982				
20...	1050	--	1070	210
291113081050601 - 91110503 CITY WELL 44 AT DAYTONA BEACH, FL (LAT 29 11 13 LONG 081 05 06)				
AUG , 1982				
20...	1100	--	860	130
291116081045501 - 91110413 DAYTONA P.S. WELL #43, DAYTONA (LAT 29 11 16 LONG 081 04 55)				
MAR , 1982				
22...	1515	710	710	61
AUG				
20...	1105	--	680	63
291120081044501 - 91110412 DAYTONA P.S. WELL #42, DAYTONA (LAT 29 11 21 LONG 081 04 45)				
MAR , 1982				
22...	1510	650	640	42
AUG				
20...	1110	--	635	40
291124081043401 - 91110410 DAYTONA P.S. WELL #41, DAYTONA (LAT 29 11 24 LONG 081 04 34)				
AUG , 1982				
20...	1115	--	645	55
291126081041701 - 91110406 DAYTONA P.S. WELL #39, DAYTONA (LAT 29 11 26 LONG 081 04 17)				
MAR , 1982				
22...	1505	750	740	71
AUG				
20...	1125	--	700	71

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

VOLUSIA COUNTY--Continued

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DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS) (90095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
291130081040601 - 91110407 DAYTONA P.S. WELL #38, DAYTONA (LAT 29 11 30 LONG 081 04 06)				
MAR , 1982				
22...	1500	860	855	99
AUG				
20...	1130	--	660	35
291133081035801 - 91110302 DAYTONA P.S. WELL #37, DAYTONA (LAT 29 11 33 LONG 081 03 58)				
AUG , 1982				
20...	1135	--	740	66
291133081040601 - 91110404 G.E. PLANT 6-INCH W. AT DAYTON BEACH, F (LAT 29 11 33 LONG 081 04 06)				
AUG , 1982				
27...	1320	740	730	88
291133081040602 - 91110409 GE PLANT 2-IN AT DAYTONA BEACH , FL (LAT 29 11 33 LONG 081 04 06)				
DEC , 1981				
15...	1000	580	600	61
AUG , 1982				
27...	1200	600	595	55
291152081023701 - 91110203 DAYTONA P.S. WELL #33, DAYTONA (LAT 29 11 52 LONG 081 02 37)				
AUG , 1982				
24...	1120	970	985	170
291202081022301 - 91210235 DAYTONA P.S. WELL #30, TUSC., DAYTONA (LAT 29 12 02 LONG 081 02 23)				
AUG , 1982				
24...	1200	2600	2710	640
291229081012901 - 91210119 CHARLES ST 4" WELL, DAYTONA BCH, FL (LAT 29 12 29 LONG 081 01 29)				
DEC , 1981				
15...	1035	3800	3850	1100
291258081313701 - 91213103 4" SUPPLY WELL, SE L. GEORGE, NR EMPORIA (LAT 29 12 58 LONG 081 31 37)				
APR , 1982				
12...	1425	500	515	29
291258081313702 - 91213104 2" SHAL WELL, SE L. GEORGE, NR EMPORIA (LAT 29 12 58 LONG 081 31 37)				
APR , 1982				
12...	1420	870	860	27
291302081063801 - 91310601 USGS WELL, SITE 2, W. OF DAYTONA (LAT 29 13 02 LONG 081 06 38)				
DEC , 1981				
15...	1155	570	600	36
291314081313801 - 91213102 OLD SHELL HARB. RD. WELL, SW OF PIERSON (LAT 29 13 14 LONG 081 31 38)				
JUN , 1982				
22...	1300	680	645	76

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

VOLUSIA COUNTY--Continued

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS) (90095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
291401081033701 - 91410305 1087 W.10TH ST WELL,HOLLY HILL,FL (LAT 29 14 01 LONG 081 03 37)				
DEC , 1981 16...	1010	670	700	70
291427081273403 - 91412732 ZIEBARTH SHAL IRRIG WELL,PIERSON (LAT 29 14 27 LONG 081 27 34)				
APR , 1982 12...	1625	360	345	26
291429081024702 - 91410213 HOLLY HILL P.S. WELL #7A, HOLLY HILL (LAT 29 14 29 LONG 081 02 47)				
MAR , 1982 22...	1630	1000	1110	190
291436081024701 - 91410216 HOLLY HILL P.S. WELL #9, HOLLY HILL (LAT 29 14 36 LONG 081 02 47)				
MAR , 1982 22...	1635	1050	1160	210
291511081125101 - 91511201 SHAL WELL,SR40 NR MIDDLE HAW,W. ORMOND (LAT 29 15 11 LONG 081 12 51)				
JUL , 1982 15...	1630	53	54	9.8
291523081095001 - 91510902 USGS WELL #1,SR40,W.OF ORMOND (LAT 29 15 23 LONG 081 09 50)				
DEC , 1981 15...	1230	660	685	62
291527081064601 - 91510605 ORMOND P.S. WELL #24, ORMOND BEACH (LAT 29 15 27 LONG 081 06 46)				
MAR , 1982 23...	1240	750	755	72
291543081320601 - 91513201 DEADMANS LANDING WELL,W.OF PIERSON (LAT 29 15 43 LONG 081 32 06)				
DEC , 1981 16...	1215	9200	10000	3200
291558081044301 - 91510401 ORMOND P.S. WELL #17, ORMOND BEACH (LAT 29 15 58 LONG 081 04 43)				
MAR , 1982 23...	1215	910	920	130
291601081060801 - 91610603 ORMOND P.S. WELL #22, ORMOND BEACH (LAT 29 16 01 LONG 081 06 08)				
MAR , 1982 23...	1235	870	885	120
291608081042101 - 91610409 ORMOND P.S. WELL #13, ORMOND BEACH (LAT 29 16 08 LONG 081 04 21)				
MAR , 1982 23...	1210	880	895	120

GROUND WATER QUALITY RECORDS
OCTOBER 1981 TO SEPTEMBER 1982

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VOLUSIA COUNTY--Continued

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS) (90095)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL) (00940)
291611081043201 - 91610416 ORMOND P.S. WELL #21, ORMOND BEACH (LAT 29 16 11 LONG 081 04 32)				
MAR , 1982				
23...	1230	910	920	130
291614081040901 - 91610406 ORMOND P.S. WELL #10, ORMOND BEACH (LAT 29 16 14 LONG 081 04 09)				
MAR , 1982				
23...	1205	930	940	140
291616081040301 - 91610404 ORMOND P.S. WELL #8, ORMOND BEACH (LAT 29 16 16 LONG 081 04 03)				
MAR , 1982				
23...	1200	950	980	150
291623081041101 - 91610414 ORMOND P.S. WELL #19, ORMOND BEACH (LAT 29 16 23 LONG 081 04 11)				
MAR , 1982				
23...	1225	1020	1040	170
291628081040101 - 91610413 ORMOND P.S. WELL #18, ORMOND BEACH (LAT 29 16 28 LONG 081 04 01)				
MAR , 1982				
23...	1220	1200	1100	190
291643081034601 - 91610303 ORMOND P.S. WELL #3, ORMOND BEACH (LAT 29 16 43 LONG 081 03 46)				
AUG , 1982				
20...	1225	--	1100	240
291644081034701 - 91610302 ORMOND P.S. WELL #2, ORMOND BEACH (LAT 29 16 44 LONG 081 03 47)				
AUG , 1982				
20...	1220	--	1040	180
291645081034801 - 91610301 ORMOND P.S. WELL #1, ORMOND BEACH (LAT 29 16 45 LONG 081 03 48)				
AUG , 1982				
20...	1215	--	1160	230
291710081042101 - 91710401 NORTH ORCHARD ST. WELL, ORMOND BEACH (LAT 29 17 10 LONG 081 04 21)				
APR , 1982				
28...	1540	890	940	130
291904081055501 - 91910504 TOMOKA ESTATES 2" WELL NW OF ORMOND (LAT 29 19 04 LONG 081 05 55)				
DEC , 1981				
16...	1050	930	980	160
292015081080501 - 92010802 WELL W.OF U-95,NATIONAL GARDENS (LAT 29 20 15 LONG 081 08 05)				
APR , 1982				
28...	1245	720	760	38

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FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
<i>Length</i>		
inches (in)	2.54×10^1	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^0	kilometers (km)
<i>Area</i>		
acres	4.047×10^3	square meters (m ²)
	4.047×10^{-1}	square hectometers (hm ²)
	4.047×10^{-3}	square kilometers (km ²)
square miles (mi ²)	2.590×10^0	square kilometers (km ²)
<i>Volume</i>		
gallons (gal)	3.785×10^0	liters (L)
	3.785×10^0	cubic decimeters (dm ³)
	3.785×10^{-3}	cubic meters (m ³)
million gallons	3.785×10^3	cubic meters (m ³)
	3.785×10^{-3}	cubic hectometers (hm ³)
cubic feet (ft ³)	2.832×10^1	cubic decimeters (dm ³)
	2.832×10^{-2}	cubic meters (m ³)
cfs-days	2.447×10^3	cubic meters (m ³)
	2.447×10^{-3}	cubic hectometers (hm ³)
acre-feet (acre-ft)	1.233×10^3	cubic meters (m ³)
	1.233×10^{-3}	cubic hectometers (hm ³)
	1.233×10^{-6}	cubic kilometers (km ³)
<i>Flow</i>		
cubic feet per second (ft ³ /s)	2.832×10^1	liters per second (L/s)
	2.832×10^1	cubic decimeters per second (dm ³ /s)
	2.832×10^{-2}	cubic meters per second (m ³ /s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm ³ /s)
	6.309×10^{-5}	cubic meters per second (m ³ /s)
million gallons per day	4.381×10^1	cubic decimeters per second (dm ³ /s)
	4.381×10^{-2}	cubic meters per second (m ³ /s)
<i>Mass</i>		
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

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