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A THREE-DIMENSIONAL FINITE DIFFERENCE GROUND WATER FLOW MODEL OF THE FLORIDAN AQUIFER SYSTEM IN MARTIN, ST. LUCIE AND EASTERN OKEECHOBEE COUNTIES, FLORIDA

by

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EXECUTIVE SUMMARY

The Upper East Coast Planning Area (UECPA) ground water flow model simulating conditions in the Floridan Aquifer System was developed using the U.S. Geological Survey modular three-dimensional finite-difference ground water flow code, commonly known as MODFLOW. This code was used because it allows a detailed evaluation of ground water flow, it is available in the public domain, it is compatible with most computer systems, and it contains many features which make it easy to use and modify. MODFLOW simulates ground water levels and flow using data describing the aquifers, such as hydraulic conductivity, transmissivity, leakance, and storage. Stress on the aquifers also can be simulated, such as recharge and well withdrawals.

The Upper East Coast Planning Area consists of Martin, St. Lucie, and portions of eastern Okeechobee counties. It is underlain by two aquifer systems: the Surficial Aquifer System and the deeper Floridan Aquifer System. Ground water in the Floridan Aquifer System ranges from moderately to highly mineralized and is currently used almost exclusively for agricultural irrigation. The Floridan Aquifer System includes an upper aquifer and a lower aquifer. The upper aquifer contains major producing zones which yield water for agricultural and potable purposes. The lower aquifer is highly mineralized.

The ground water flow model is composed of four layers representing the Surficial Aquifer System, the Upper Floridan Aquifer, and two of the uppermost portions of the Lower Floridan Aquifer. Confining zones between aquifers are not represented by separate layers within the model. Rather, the confining zones are represented by vertical conductance terms within the top three layers of the model. The horizontal model grid has 54 rows and 53 columns, with a uniform spacing of one mile.

The model was calibrated by adjusting aquifer parameters to match computed water levels with observed levels for the period May 1989 through March 1991. Ground water withdrawal information for the calibration period was obtained from individual water use permits for irrigation issued by the South Florida Water Management District and St. John's River Water Management District. The permits supplied information on the location of wells, their capacities and well construction data. Further information was obtained by asking the permit holders to estimate their water usage during the calibration period. This was done by mailing questionnaires to the majority of permit holders in the UECPA. The responses to these questionnaires, combined with data from the permits, were used to estimate actual monthly water use during the calibration period. In some cases, agricultural and public water supply monthly water use reports were submitted to the District. These also were used in the model.

Recommendations

This model should be used in the evaluation of water-use permit applications for the Floridan Aquifer System in the UECPA. Where a finer scale or site-specific model is required, the regional model could be used to provide the boundary conditions. The current SFWMD Basis of Review manual specifies a Floridan Aquifer System restricted allocation of 1.5 acre inches for areas within the eastern Okeechobee-northwestern St. Lucie Basin. The current maximum month restriction of 1.5 acre inches should be reviewed using this model. This should be done by making predictive model runs using the maximum withdrawals allowed and observing the impacts on water levels in the aquifer system. The model should continue to be refined and updated whenever additional information becomes available.

Minimum water levels should be established for the Upper Floridan Aquifer in the Upper East Coast Planning Area. All permitted withdrawals should be regulated to ensure the minimum levels are maintained. The establishment of minimum water levels should be a part of the development of the water-supply plan for this area. Model results indicate water quality deterioration in the Upper Floridan Aquifer is likely in the future, therefore, increased monitoring for dissolved solids and chlorides in the Floridan Aquifer System well water is recommended for areas where large water withdrawals are occurring.

Agricultural water use accounted for 90 percent of the Floridan Aquifer System water outflows in the UECPA for the 23 month time period modeled. Accurate estimates of the amount of water being used from Floridan Aquifer wells are essential in maintaining an accurate ground water flow model. It is recommended that permittees be required to submit monthly water use reports to the District. The reports should indicate the amount of time wells were allowed to flow freely in each month of the year.

Model results and field observations indicate that water levels fluctuate as much as eight feet in three distinct areas in St. Lucie County where intense citrus irrigation withdrawals from the Floridan Aquifer System occur. Caution should be exercised when allocating new withdrawals, and restrictions on additional development of the Floridan Aquifer System should be considered in these areas.

Hydrogeologic studies should be undertaken in areas where existing information is scarce. The areas should be located where future use of the Floridan Aquifer System as a public water supply source is probable. Cities in Martin and St. Lucie counties are currently using the Surficial Aquifer System as a sole source of potable water. There is concern that this source may not provide enough water to meet future demands. The availability of water from the Surficial Aquifer System is limited due to the lack of storage capacity, problems with wetland impacts and susceptibility of the aquifers to contamination by various land use activities.

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ABSTRACT

A three-dimensional ground water flow model representing the Floridan Aquifer System (FAS) in the Upper East Coast Planning Area (the study area) was developed as a tool for evaluating the impacts on the aquifer system resulting from present and future water uses. The FAS flows naturally at land surface and is used primarily for citrus irrigation in the study area. The water is moderately to highly mineralized and is usually blended with surface waters before being applied to citrus trees. Despite its high total dissolved solids content, the aquifer is utilized extensively, especially in St. Lucie County.

The extent and composition of the FAS and three permeable zones within it were defined using previously available and newly collected data. With few exceptions, agricultural ground water supply wells are drilled to the upper portion of the FAS where water quality is best and adequate yields are attained. Model results showed the majority of recharge to the Upper Floridan Aquifer is from deeper portions of the Aquifer System. A smaller, less important, source of recharge is from the north and west model boundaries, coinciding with the boundaries of Okeechobee and Indian River counties.

Present permitted allocations seasonally lower ground water levels as much as eight feet in three distinct areas of St. Lucie County. Survey results indicate that permittees in these areas are observing increasing chlorides in their FAS well water. Water quality degrades with depth in the FAS and intensive withdrawals increase the potential for upward movement of that degraded water. Additional development of the FAS is not recommended in these three areas encompassing 28 square miles in St. Lucie County.

At present demand levels, ground water from the FAS should be available to meet present and future agricultural needs in the UECPA without adversely impacting water quality or the ability for wells to flow naturally at land surface. The potential for further ground water development will be analyzed using this model by simulating future water use scenarios.

The FAS is utilized on a small scale as a source for public water supply on Hutchinson Island. The water is processed by reverse osmosis to render it potable. The aquifer is providing an adequate quantity for the current level of use. Model results indicate the FAS does not have large scale production potential east of the Intracoastal Waterway, north of Stuart. Previous studies indicate a structural anomaly (possible fault) exists, the axis of which follows the Intracoastal Waterway in a north to south direction. Permeability in the upper FAS is drastically reduced east of this anomaly as is the vertical hydraulic connection between the upper and lower FAS. These factors taken together are responsible for the low yielding wells observed on Hutchinson Island and limit future large scale development of the aquifer in this area.

INTRODUCTION

PURPOSE AND SCOPE

The purpose of this study was to develop a calibrated three-dimensional ground water flow model simulating the Floridan Aquifer System (FAS) underlying the Upper East Coast Planning Area (UECPA). Two aquifer systems underlie the study area, the shallow Surficial Aquifer System and the deeper FAS. There are over 1,300 permitted wells tapping the FAS in the study area, the predominant use being citrus irrigation. Agricultural water demands in the study area are met primarily by surface water and secondarily by FAS water. Public water supplies presently rely primarily on the Surficial Aquifer System rather than the FAS. However, attention is shifting toward the high yielding FAS to augment current public water supplies.

The model was developed as part of the South Florida Water Management District's (SFWMD) effort to develop regional comprehensive water supply plans. These plans will be based on quantitative assessments of the available water resources, of which the Floridan Aquifer is a significant component. Evaluation of existing water supply problem areas, identification of potential problem areas, and development of management guidelines will be integral components of these water supply plans. The model will have immediate use as a regulatory tool to the SFWMD in evaluating requests for large ground water withdrawals.

This report represents the third phase of a four phase Floridan Aquifer System resource assessment of the UECPA. The first phase was completed in 1980 and involved collection and compilation of data in the UECPA, namely structural, flow zone, and water quality mapping (Brown and Reece, 1979), aquifer test data and analysis (Brown, 1980) and lithologic, geophysical, and well construction data (Reece, Brown and Hynes, 1980). The second phase involved developing an interim two-dimensional numerical flow model to evaluate immediate permitting issues arising from large FAS water withdrawal requests (Bower, 1988). One of the recommendations of phase two was that as part of phase three, a three-dimensional calibrated model be developed using the USGS MODFLOW code. This three-dimensional model will be followed by a fourth phase which will include documenting and analyzing the latest resource assessment data gathered over the past three years. The next publication will include recently gathered water quality data, structural and flow zone mapping, results from a multi-zone FAS Aquifer Performance Test (APT) conducted by the SFWMD in St. Lucie County, and discussions regarding water level fluctuations.

LOCATION OF STUDY AREA

The UECPA is located on the southeast coast of Florida and covers all of St. Lucie, Martin, and parts of Okeechobee counties within the SFWMD (Figure 1). The model area includes all of the UECPA and includes an area approximately five miles outward from the UECPA into the adjacent counties of Indian River, Palm Beach, Okeechobee, and Osceola. It lies generally within Townships 33 through 41 South and Ranges 35 through 43 East, and encompasses approximately 2,862 square miles, 1,500 of which are in the UECPA (Figure 2).

TOPOGRAPHY

Land surface is relatively featureless, with elevations ranging from 0 feet to 60 feet above the National Geodetic Vertical Datum (NGVD), averaging approximately 25 feet NGVD in most of the study area. The major feature is a ridge trending southeast, which occurs in the western portion of the study area. The ridge trends southeast starting in the northwest portion of the UECPA with a maximum elevation of approximately 60 feet above NGVD (Figure 3). The Floridan Aquifer System potentiometric surface is 5-35 feet above land surface in most of the study area, but is at or below land surface in the topographically high areas along the ridge where land surface is 45 feet (NGVD) or higher.

HYDROGEOLOGY

The two major aquifer systems underlying the study area are the Surficial Aquifer System and the Floridan Aquifer System. They extend from land surface to over 1,500 feet in depth. Figure 4 is a generalized hydrogeologic cross section taken from A-A' as shown in Figure 1. The scope of this document includes a brief summary of the hydrogeology which supports the model development. Readers interested in a more detailed discussion of the geology of the Floridan Aquifer System are referred to the following publications: Applin and Applin (1944), Cooke (1945), Puri and Vernon (1959), Stringfield (1966) and Tibbals (1991).

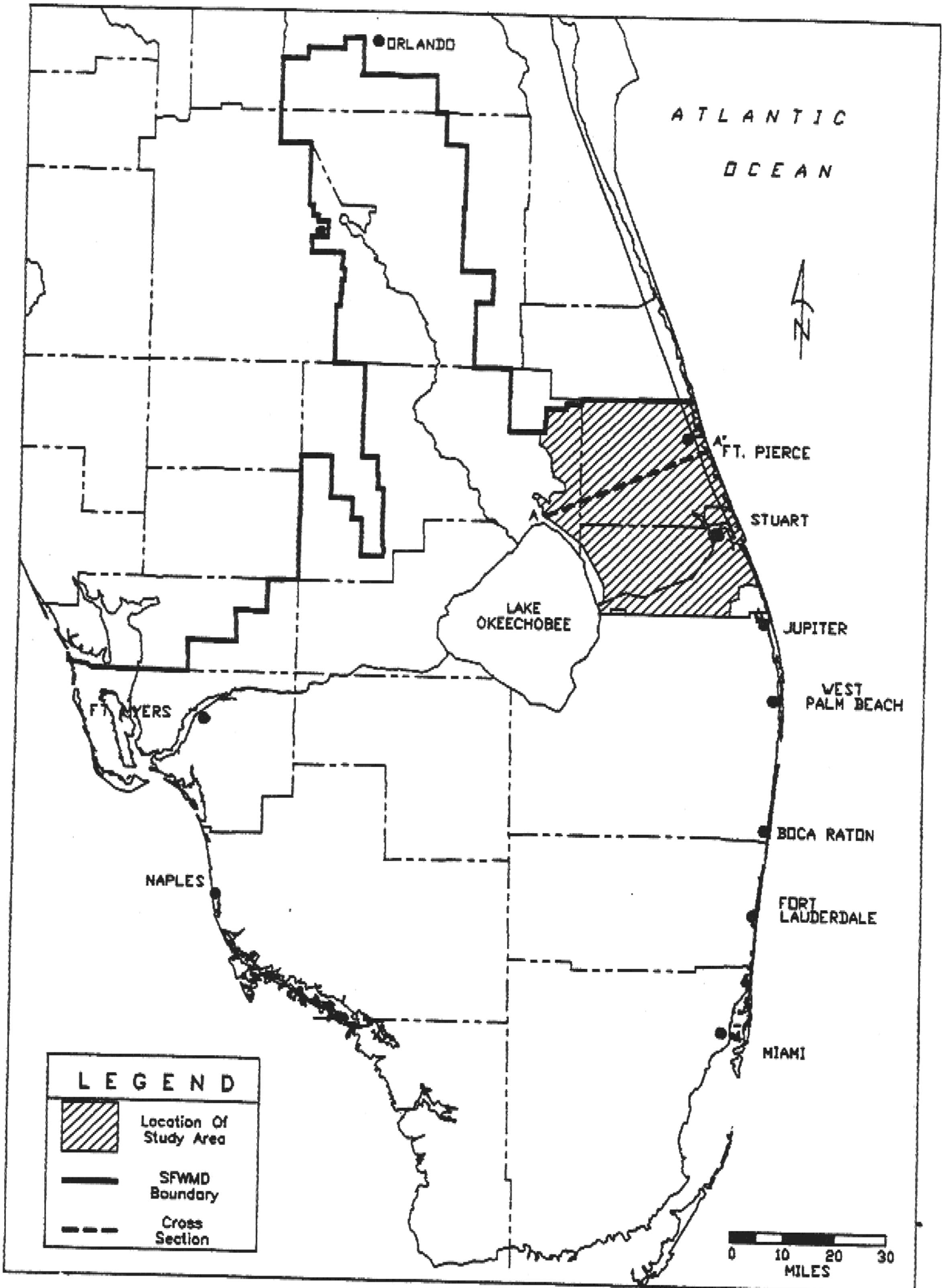

FIGURE 1: Location Map

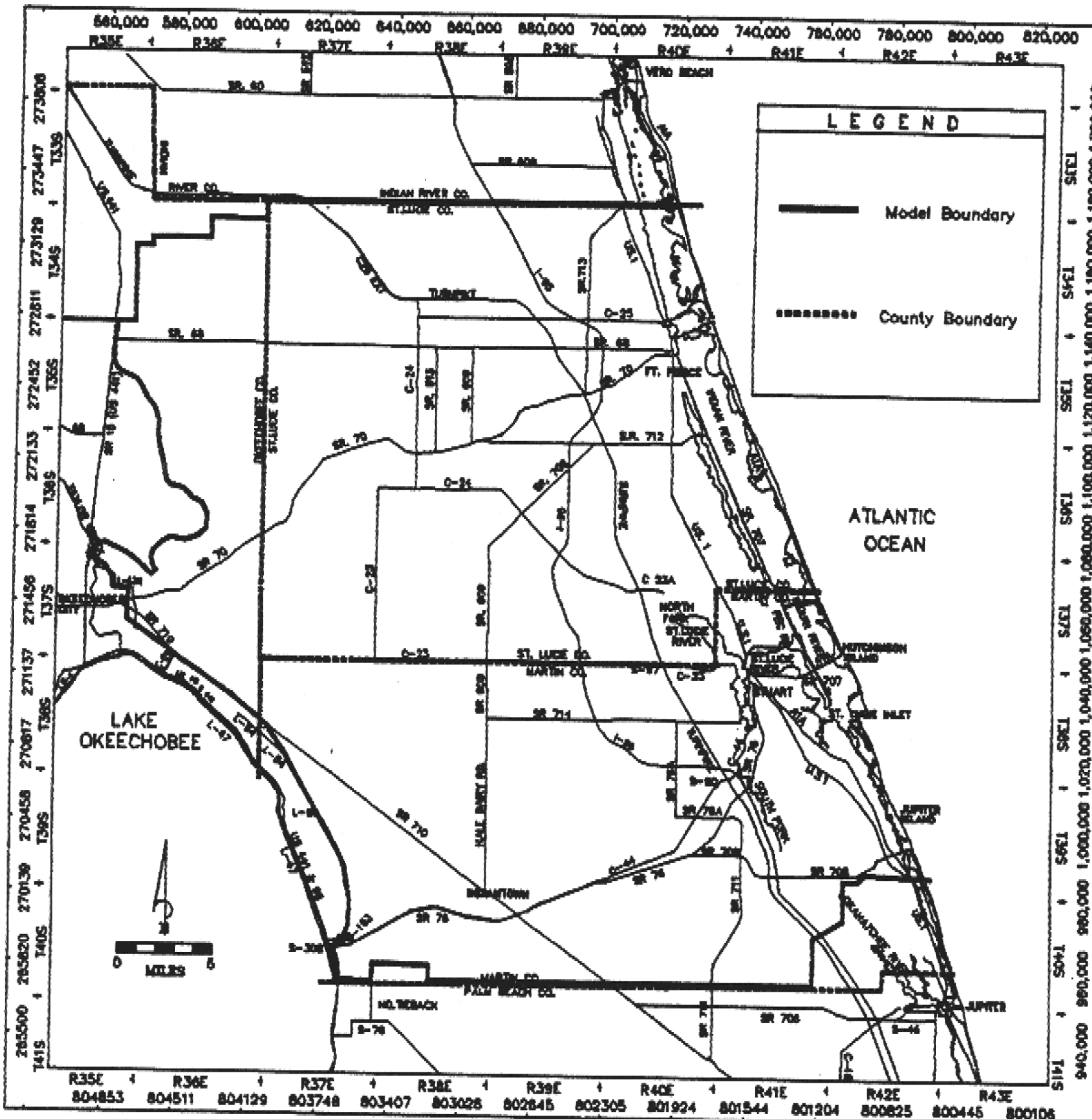

FIGURE 2. Study Area

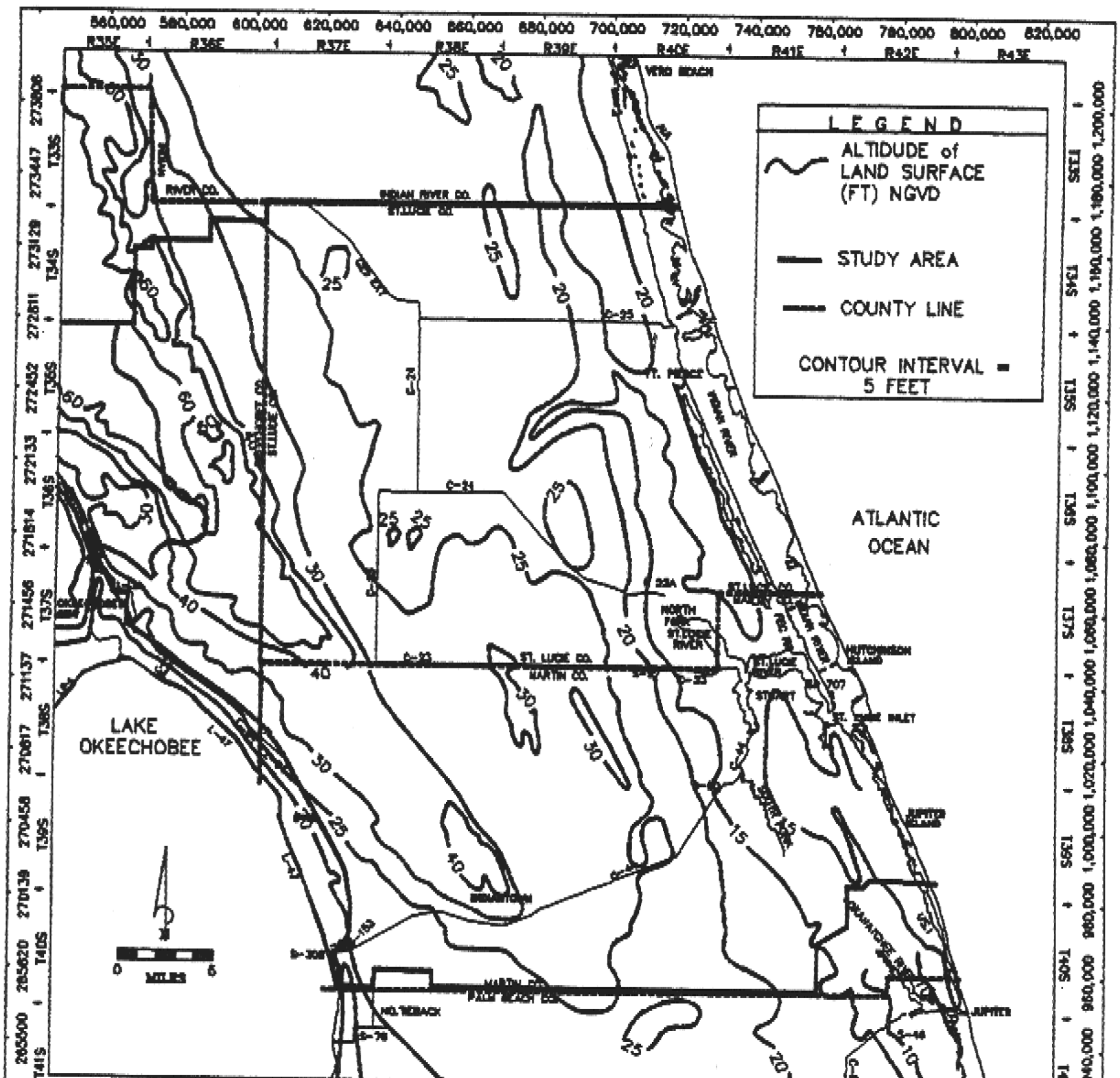

FIGURE 3: Topography of Study Area

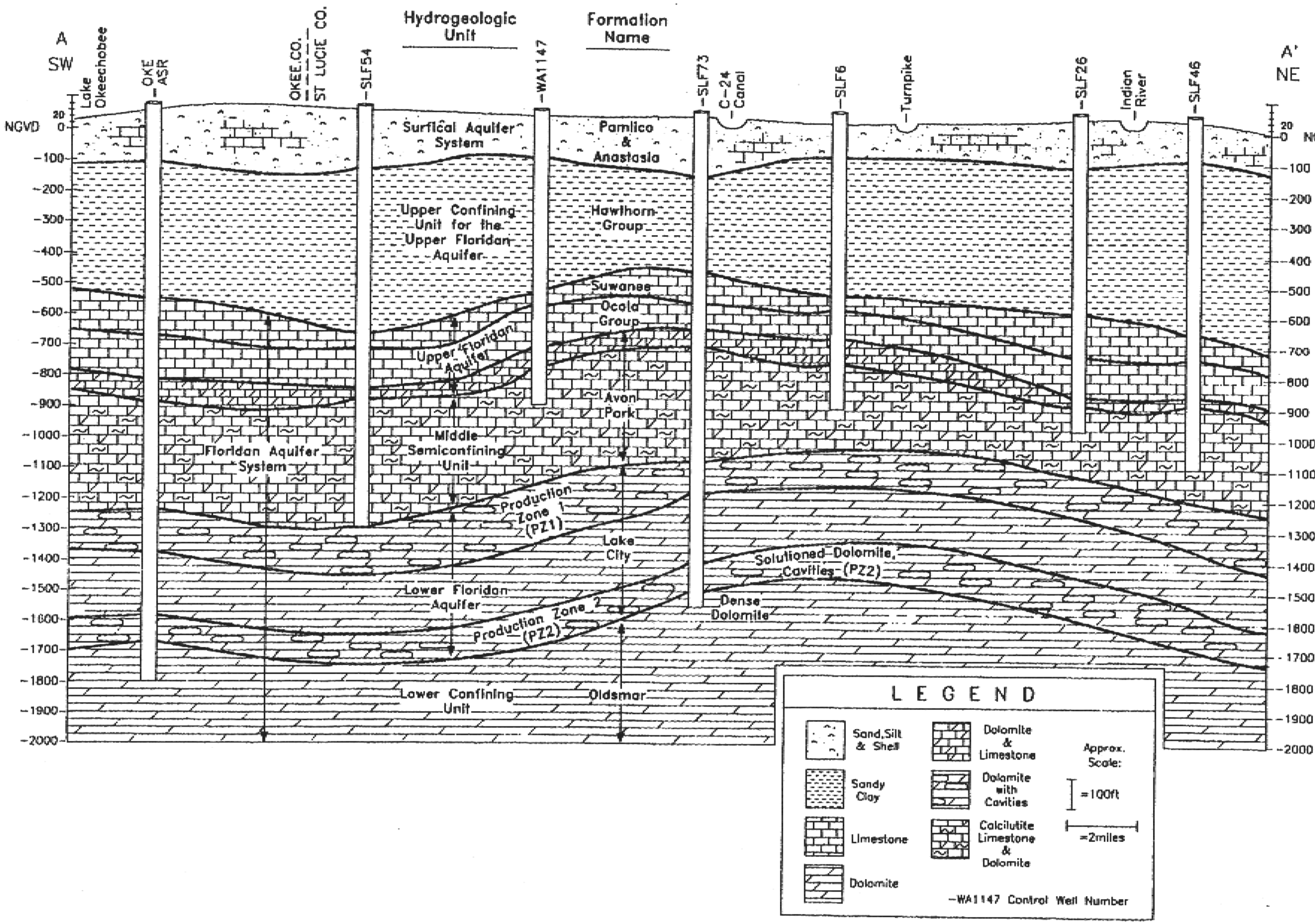

FIGURE 4. **Generalized Hydrogeologic Cross Section**

Surficial Aquifer System

The uppermost water-bearing interval in the UECPA is the Surficial Aquifer System (SAS). The SAS is the source of most of the potable water used in Martin, St. Lucie and Okeechobee counties. It is comprised of all saturated sediments and rocks from the water table down to the clays and silts of the Hawthorn confining unit and is generally composed of two producing zones. The sediments are composed of unconsolidated fine to medium quartz sand with interbedded lenses of limestone, sandstone, shell and clay of late Miocene and Pleistocene age. These surficial geologic units are areally discontinuous and extremely difficult to correlate stratigraphically over large areas. Aquifer thicknesses range from less than 50 to greater than 250 feet (Brown and Reece, 1979).

The Surficial Aquifer System is unconfined and is recharged locally by rainfall, canals, ditches, small reservoirs, and irrigation water. A small amount of recharge is derived from downward seepage of irrigation water derived from the Floridan Aquifer System (Lichtler, 1960) and, to a lesser extent, upward leakance from the FAS.

Water leaves the Surficial Aquifer System by seepage to canals and ditches, direct flow into the Atlantic Ocean, evapotranspiration where the water table is near land surface, and by pumping wells.

The scope of this investigation does not include a detailed discussion of the Surficial Aquifer System. Due to its role as a primary supply of fresh water to the public, it is covered in two separate studies currently in review: A Three-Dimensional Finite Difference Ground Water Flow Model of the Surficial Aquifer System in Martin County, Florida (Adams, 1992) and A Three-Dimensional Finite Difference Ground Water Flow Model of the Surficial Aquifer in St. Lucie County, Florida (Padgett, in press). The reader is referred to these publications for a more detailed discussion of this aquifer system.

Upper Confining Unit

The upper confining unit consists of Miocene age sediments of the Hawthorn Group. The geologic contact between the Pliocene age basal surficial sediments and Miocene age Hawthorn sediments is conformable and nearly imperceptible. Lithologic logs generally describe the contact as a change from a gray-green silty sand to a dark green fairly dense clay. The upper confining beds are equated with the upper portion of the Hawthorn Group and are contained wholly within the Hawthorn Group (Wedderburn and Knapp, 1983). The sequence is composed of low permeability, phosphatic, silty and clayey sediments that separate and effectively confine the FAS from the SAS over the entire UECPA study area.

The top of the upper confining beds in the study area is shown in Figure 5. Structurally, the top of the Hawthorn is highest in the northwest corner of St. Lucie County (-80 feet NGVD). It gently dips to the southeast across the study area, occurring as deep as -200 feet NGVD in the extreme southeast portion of Martin County. The thickness of the Hawthorn is somewhat variable (Figure 6), and follows a general thickening trend to the southeast. It is thinnest (250 to 300 feet thick) in the northwest corner of the study area, thickens gradually to the south up to State Road 70 (St. Lucie County), where it flattens out and remains a constant 400-450 feet of thickness into Martin County near State Road 76. Here the Hawthorn Group begins to thicken to the southeast, getting as thick as 750 feet in extreme southeast Martin County.

The Hawthorn Group is separated into two formations (Scott, 1988). They include an upper silty, clayey, phosphatic, fine to very fine grained clastic zone (Peace River Formation) and a lower carbonate zone (Arcadia Formation) that is interbedded with low permeability carbonate muds and clays. The upper zone is generally devoid of permeable intervals. It varies in thickness from 100 to 300 feet. Rubble beds are sometimes present near the base of the upper zone and give a characteristically high response on natural gamma ray logs (Knapp, 1988).

Directly below the rubble beds is a dense dolomite layer sometimes described by local drillers as chert. This dolomite layer is typically between 3 to 10 feet thick and marks the top of the lower carbonate zone. Because of its consolidated, indurated nature, drilling contractors typically use this interval as an anchor to set the base of surface pipe when constructing FAS wells. Most FAS wells are completed as open hole below this dolomite layer. Below the dolomite bed and above the Floridan Aquifer are low permeability, poorly indurated limestones interbedded with calcareous clays and silts. The clay content typically increases with depth until the unit becomes dominated by sandy, plastic, olive gray clay. Thin beds of silty sand and shell also are found in this interval. The potential of the lower section of the Hawthorn to yield water was investigated by Hydro Designs (1988). The results were inconclusive; however, the potential is generally considered poor.

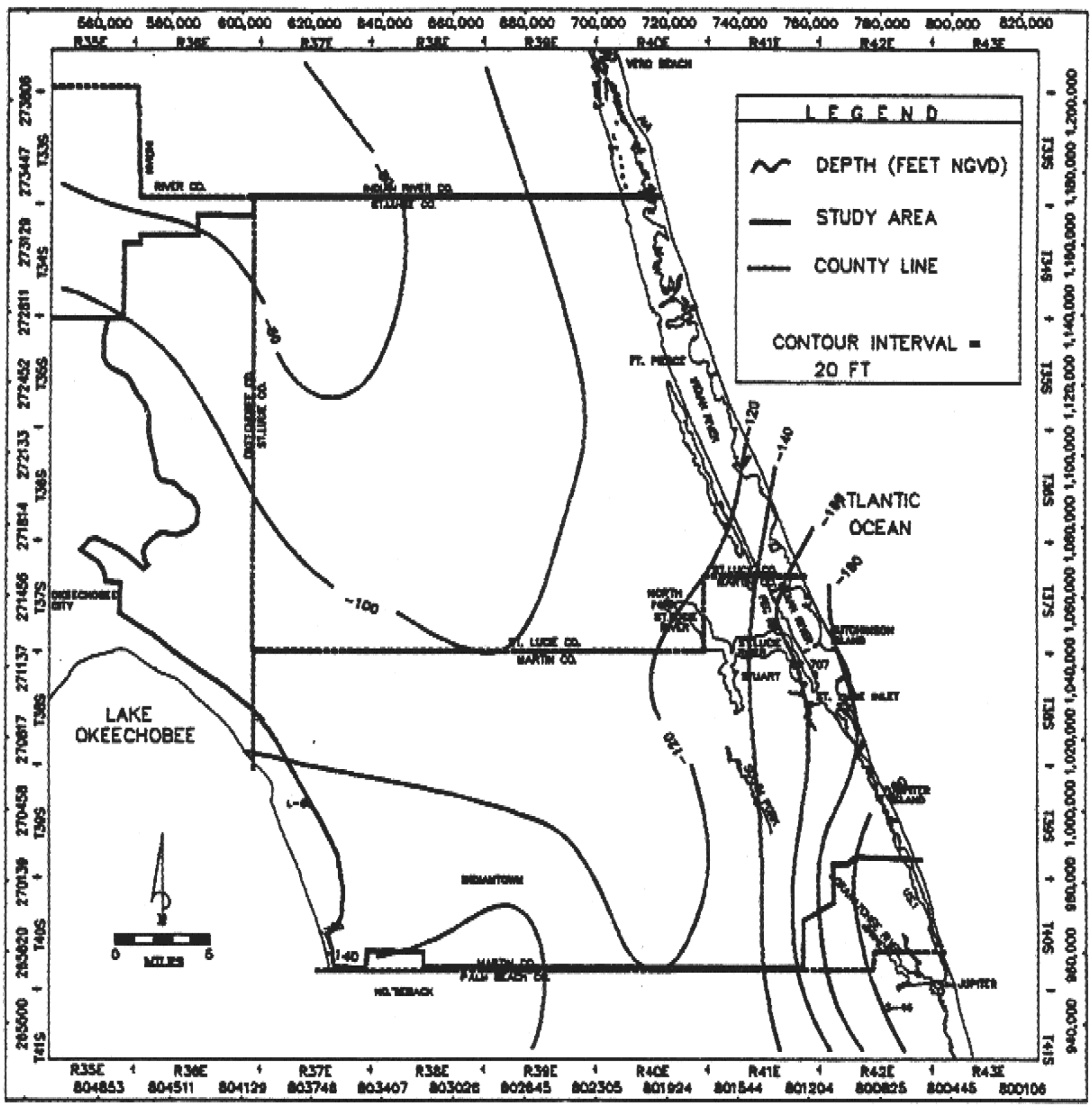

FIGURE 5: Top of the Upper Confining Interval

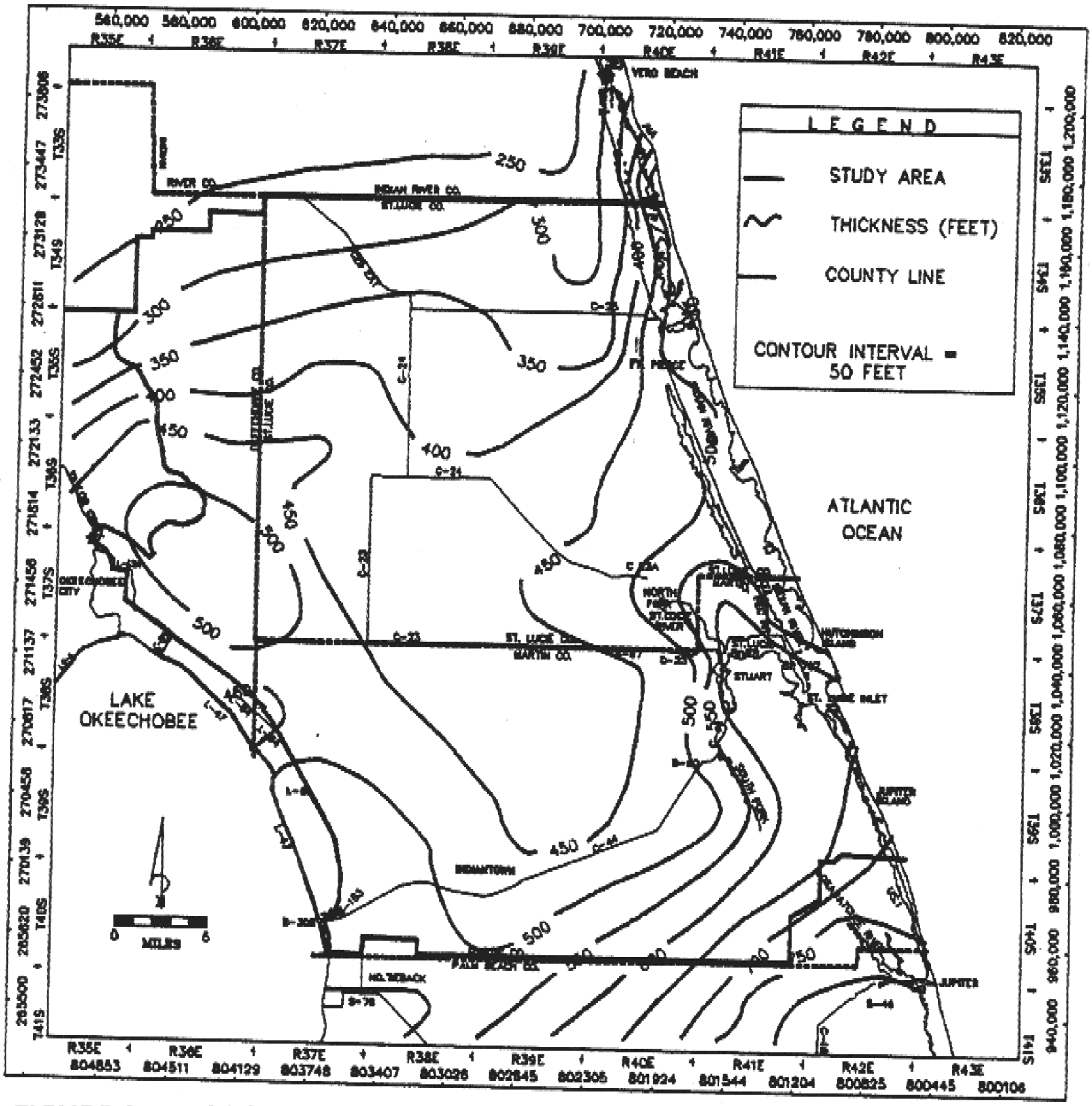

FIGURE 6: Thickness of the Upper Confining Interval

Floridan Aquifer System

Underlying the upper confining beds is a sandy, chalky, phosphatic limestone. Based on the definition by Parker and others (1955), this limestone unit is considered to comprise the upper portion of the Floridan Aquifer System. The phosphatic component of this unit makes it easily identifiable on gamma ray logs as peaks or intervals of high natural gamma ray activity. Wells completed to this interval or deeper flow naturally at ground level in most of the UECPA.

The Floridan Aquifer System is composed of a sequence of limestones, dolomitic limestones, and dolomites ranging in age from Eocene to early Miocene. It persists areally and ranges from 2,700 to 3,400 feet thick in the UECPA (Miller, 1982). The top occurs at -300 feet NGVD in the extreme northwest corner of the study area and dips to the southeast where it is found at -900 feet NGVD in the extreme southeast corner (Figure 7). Few wells penetrate the entire thickness of the FAS.

The Floridan Aquifer System is classified as an aquifer "system" because multiple permeable intervals sandwiched between confining materials exist in this thick sequence of carbonates. Permeable zones are identified using downhole flowmeter and temperature tools. Flow meter and temperature logs show that each permeable zone contributes varying amounts of flow to the borehole. Flow (permeable) zones are associated with solution cavities and formational unconformities, the latter being correlatable over large regions (Brown and Reece, 1979).

Tibbals (1991) divided the FAS into two aquifers based on the vertical occurrence of two highly permeable zones. These two aquifers are the "Upper Floridan" and the "Lower Floridan" aquifers. The two are separated by a low permeability confining interval dubbed the "middle semi-confining unit". The term Lower Floridan Aquifer should not be confused with the basal portion of the Lower Floridan Aquifer typically referred to as the "boulder zone". Tibbals' nomenclature is adopted in describing the hydrogeology and in model conceptualization for this UECPA study.

The Upper Floridan Aquifer (UFA), in the UECPA, is approximately 500 feet thick and composed of two continuous, correlatable flow zones. These flow zones are penetrated by most wells in the UECPA . They occur along unconformities between the Suwannee Formation and the Ocala Group, and the Ocala Group and the Avon Park Formation (Figures 8 and 9). These stratigraphic unconformities are areally persistent and easily mapped over the study area (Brown and Reece, 1979). However, additional flow zones exist in the UFA that are much harder to correlate. These somewhat random zones are created by solutioning and dolomitization and are not stratigraphically controlled. The UFA was found to have from one to as many as eight separate flow zones associated with it.

The middle semi-confining unit was found at -900 feet NGVD in test well SLF-73 located in central St. Lucie County (C-24 & Shinn Road). It is approximately 200 feet thick and consists largely of chalky calcilutite interbedded with limestones and dolomites. Chalk and calcilutite are relatively impermeable and account for the confining nature of this unit at SLF-73. Few wells in the UECPA fully penetrate the middle semi-confining unit; therefore, data on its variability in thickness and lithology are limited. The confining unit is evident in deep well data (wells generally deeper than 1,000 feet) in the study area.

The upper permeable portion of the Lower Floridan Aquifer (ULFA) was penetrated by deep wells drilled in the study area. It follows the same structural trend as the UFA and is found 200 to 400 feet below its base (Figure 10). The ULFA is 400 feet thick and occurs approximately -1,100 feet NGVD in well SLF-73, central St. Lucie County. Hydraulic testing of this zone was conducted at three sites in St. Lucie and Okeechobee counties. One of these tests was conducted for the SFWMD by an engineering firm (CH2M Hill, 1989); a second test was conducted by the SFWMD (unpublished C-24, St. Lucie County APT Test at SLF 73) and a third test was conducted by Ebasco for Florida Power and Light (1990). The well names respectively are OKEEASR-DEEP, SLF-73, LFM-1. The first two aquifer performance tests (APT's) listed above were performed by the SFWMD to determine the ability of the Lower Floridan interval to store water. The technology of injecting and storing fresh water in an aquifer for future recovery is commonly referred to as Aquifer Storage and Recovery (ASR). This portion of the Lower Floridan was determined to have good potential as an ASR target horizon due to its capacity to receive large volumes of injected water pumped from surface water bodies. This capacity is due to its high porosity and permeability.

The ULFA is traceable throughout the study area. Sources of available data include the two ASR sites mentioned above (CH2M Hill, 1989, SLF-73), two Florida Power and Light cooling water supply wells near Indiantown (Ebasco, 1990), as well as lithologic and geophysical logs from injection wells.

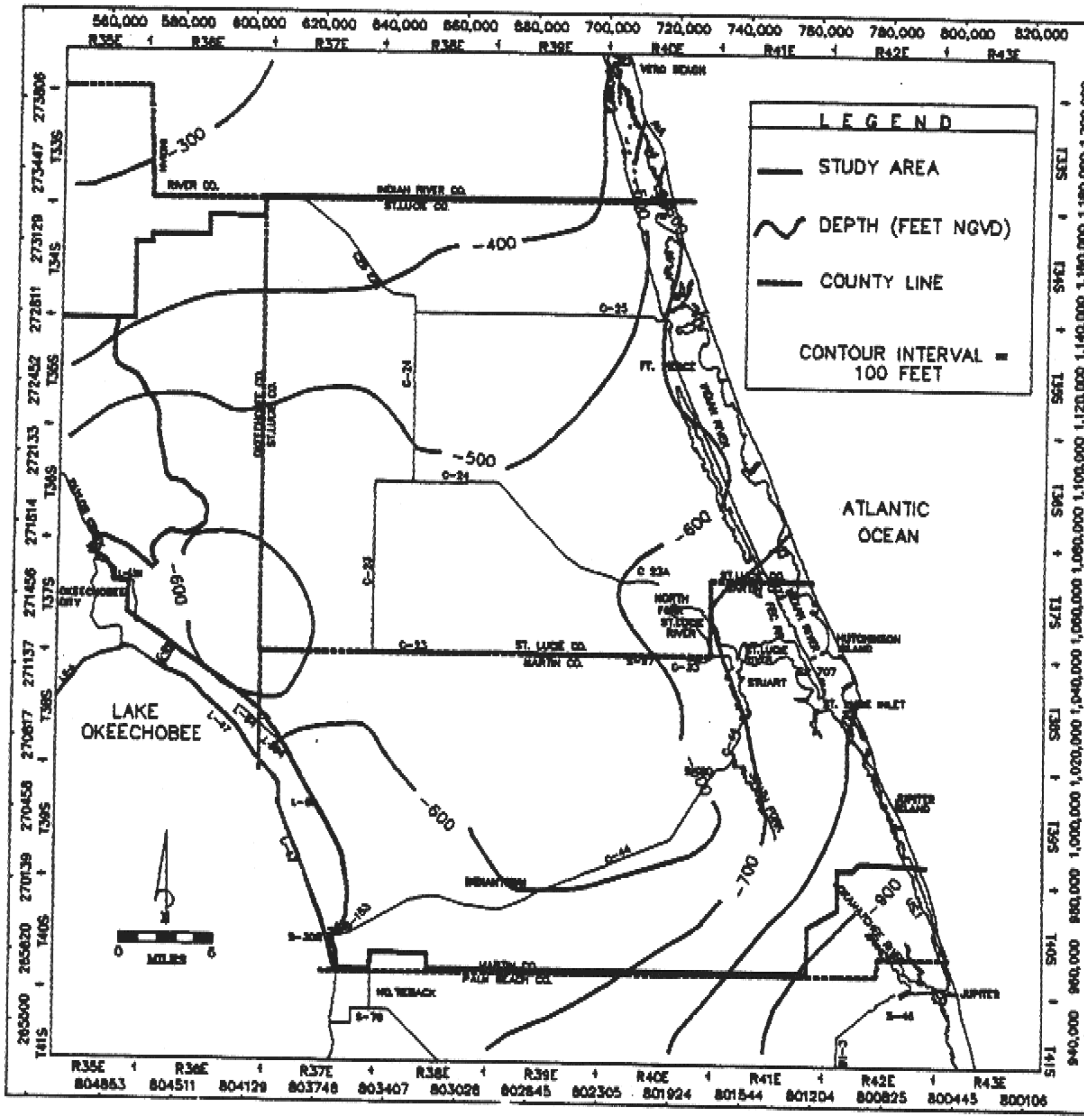

FIGURE 7: Top of the Floridan Aquifer System

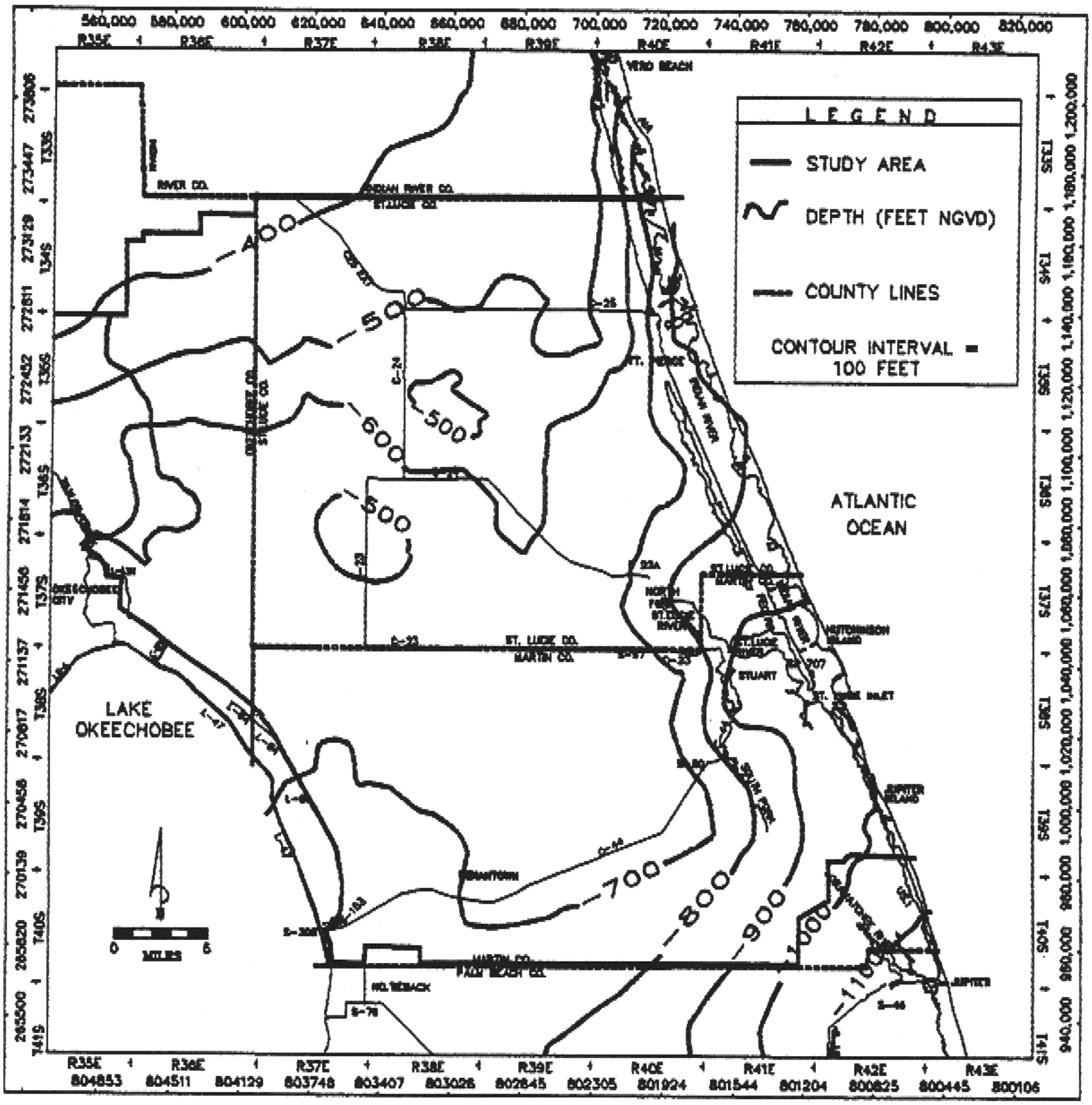

FIGURE 8: Depth to the Unconformity Between the Suwannee Formation and the Ocala Group

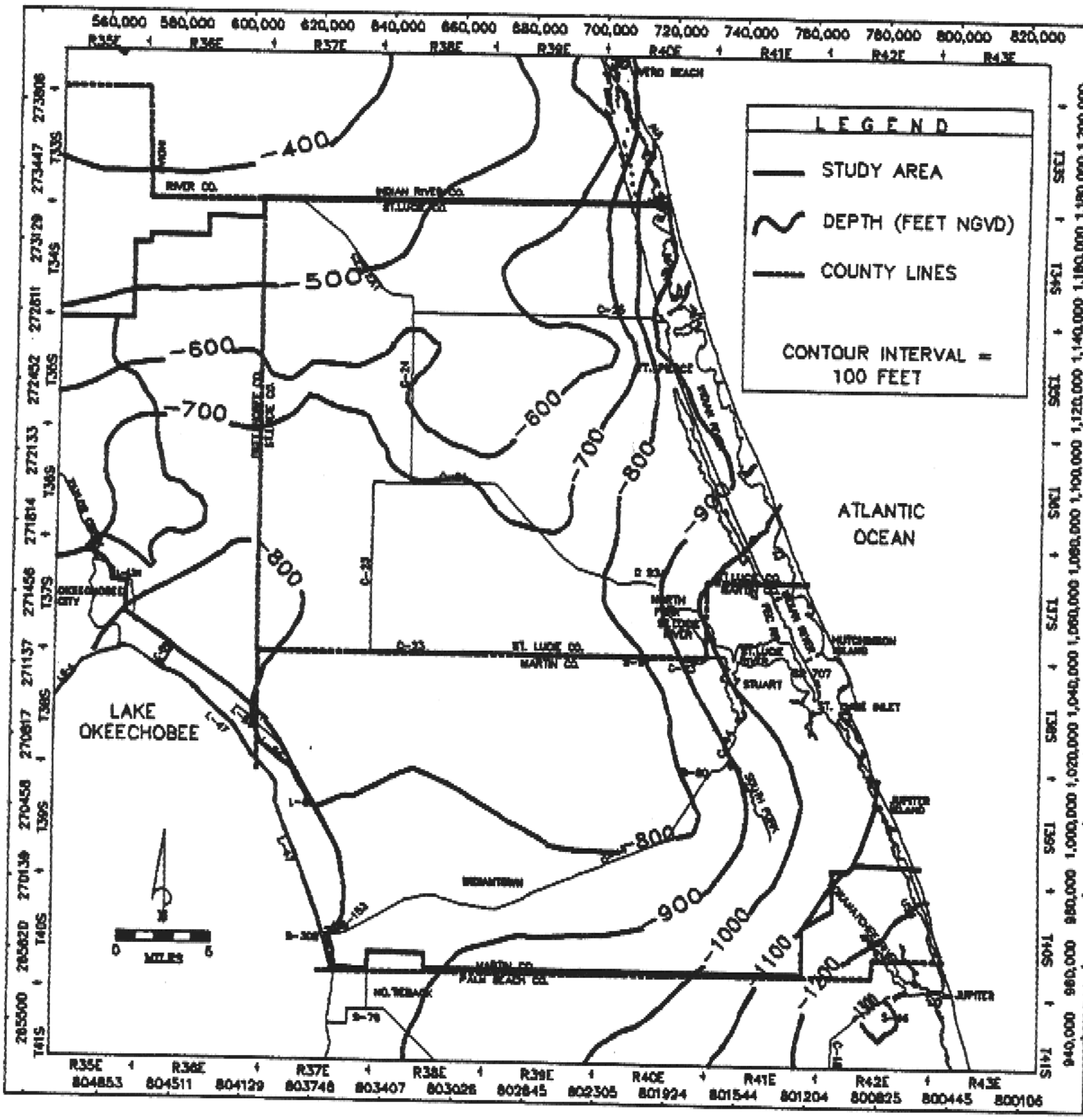

FIGURE 9: Depth to the Unconformity Between the Ocala Group and the Avon Park Formation

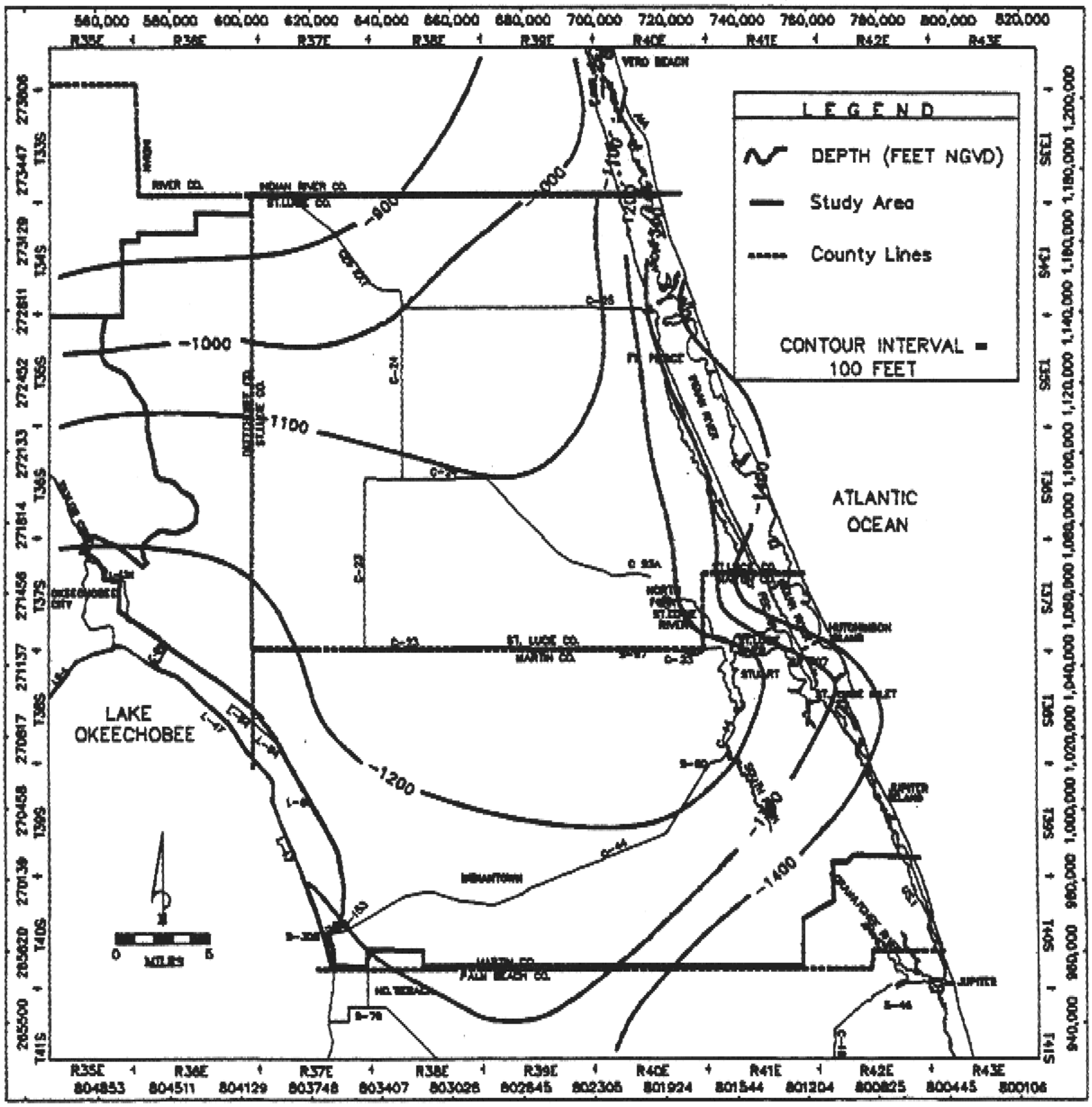

FIGURE 10: Top of Lower Floridan Aquifer Producing Zone 1

Data collection associated with the construction of injection wells typically does not provide detailed data for this portion of the aquifer; the target (the Boulder Zone) is approximately 1,500 feet deeper. However, in most cases, open hole geophysical logs are run before casing is set, and flowmeter and temperature logs from injection wells demonstrate the persistence of the ULFA in the study area.

Borehole geophysical and drill stem tests performed at ASR sites indicate the permeability is cavernous in nature. The cavities occur in two distinct places within the upper 400 feet of the ULFA, separated by an interval of low permeability. The top of the upper and lower cavity systems are found at -1,100 feet NGVD and -1,400 feet NGVD, respectively, at well SLF-73. For ease of reference, hereafter these zones are referred to as the Lower Floridan Aquifer permeable zone 1 (LFAPZ1) and the Lower Floridan Aquifer permeable zone 2 (LFAPZ2) in descending order (refer to Figure 14). Water samples were collected from the LFAPZ1 and the LFAPZ2 intervals using drill stem packers in well SLF-73 and were analyzed for several parameters including, total dissolved solids (TDS) and chlorides. Water samples also were collected from the confining unit between the two intervals and analyzed for TDS and chlorides. The laboratory analyses of the samples collected indicate that water quality is significantly different in each of the permeable zones. Dual packer tests and geophysical logs run in the 250 foot thick interval between flow zones demonstrate its confining nature. Measured heads in LFAPZ1 and LFAPZ2 were nearly the same (approximately 39 feet above NGVD).

Below the ULFA, water quality deteriorates rapidly with depth. An extremely thick confining interval of dense limestones and dolomites extends approximately 1,500 feet below the ULFA. The thickness and lack of porosity in these confining beds effectively preclude water movement.

Underneath the thick confining interval below the ULFA is a highly permeable interval known informally as the Boulder Zone. The Boulder Zone is an extremely permeable, cavernous section at the base of the lower FAS. Its unofficial name was coined from drillers who describe it as drilling a layer of loose, boulder size rocks. It does not significantly affect the Floridan Aquifer System (Tibbals, 1991), because it is hydraulically separated from it. The water levels generally fall below ground level, considerably lower than levels in the Floridan Aquifer System which rise on average 15 feet above ground level. The Boulder Zone is important in south Florida only from the perspective of disposing wastewater through injection wells. Injection wells are receptacles for secondarily treated wastewater and industrial wastes and are located throughout most of southeast Florida (Figure 11). Stratigraphically, the Boulder Zone is in the Oldsmar Formation, which represents the oldest Eocene Age sediments in the section. It is approximately 3,100 to 4,100 feet deep in the UECPA (Miller, 1982b).

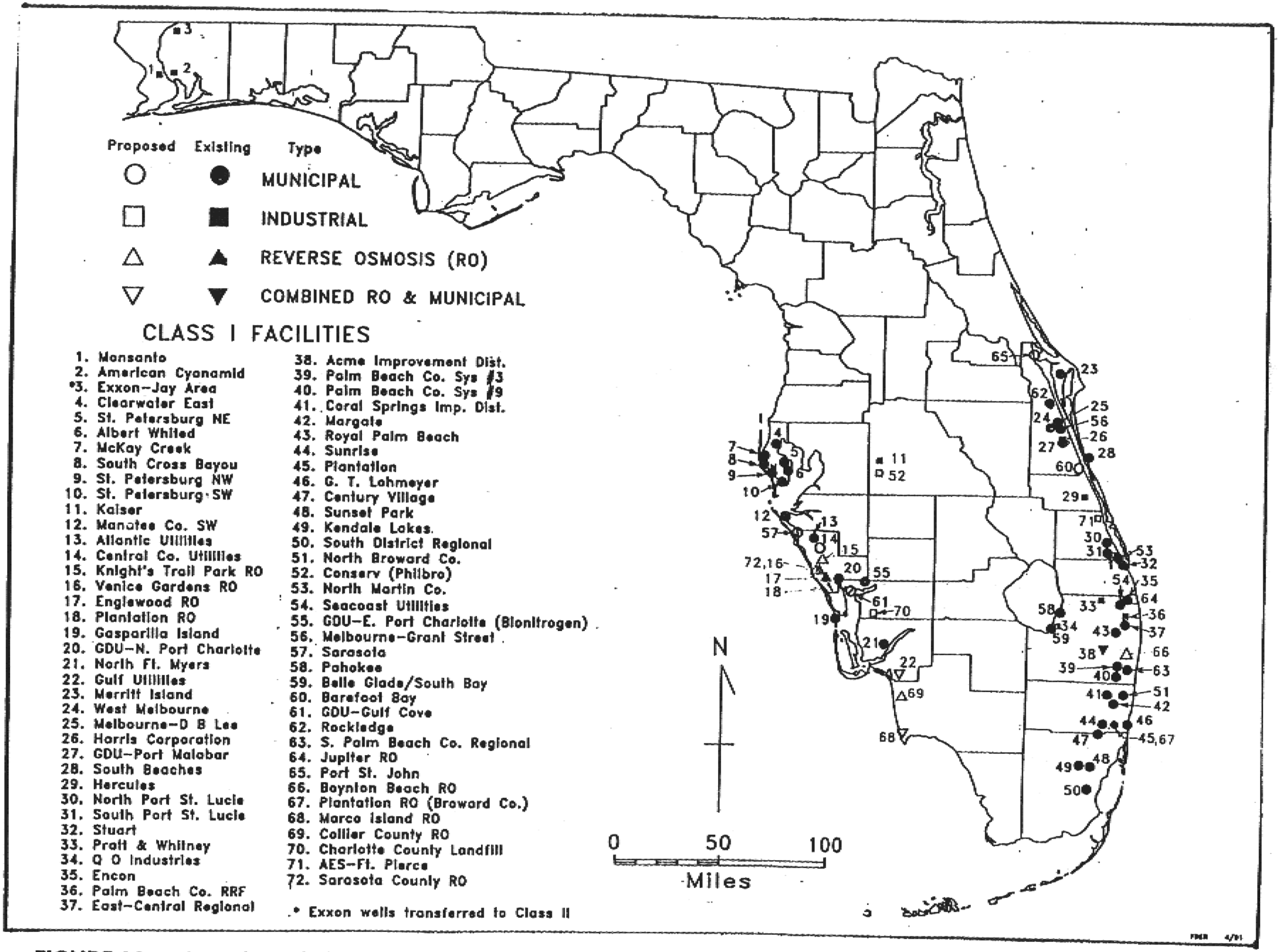

FIGURE 11. Location of Class I Injection Facilities in Florida (Adapted from DER)

MODEL DESCRIPTION

INTRODUCTION

The U.S. Geological Survey modular three-dimensional finite difference ground water flow model code (McDonald and Harbaugh, 1988), commonly known as MODFLOW was used in this study. This code was selected for the following reasons:

1. It is available in the public domain.
2. It is compatible with most computers with only minor modifications.
3. The modular structure and excellent documentation allow easy modification and the addition of new modules for specialty applications.
4. MODFLOW allows good flexibility of data file structure and management. This facilitates the utilization of and interaction with other software for data manipulation.
5. The ability to record cell-by-cell flow terms feature of the code can be used to:
   - A. Evaluate in detail, flow and head changes associated with various withdrawal scenarios, and
   - B. Generate boundary conditions for higher-resolution models within the regional flow model.

The MODFLOW code contains modules which simulate recharge, evapotranspiration, rivers, drains, wells, and other sources and sinks of water external to the model. The modules utilized for this model are shown in Table 1. Three iterative solution schemes are available for simulating flow problems: slice successive over relaxation (SSOR), strongly implicit procedure (SIP), and the preconditioned conjugate gradient (PCG) method (Kuiper, 1987). SSOR is the better solution method for some strongly layered conditions. However, it is not as direct as SIP; therefore, it requires more time to arrive at a solution. SIP was used for this model application with favorable results.

DISCRETIZATION

Discretization is the process of breaking a continuous section into a set of discrete elements or cells by use of a grid to represent the system numerically. The study area was discretized into a horizontal grid of 54 rows and 53 columns. The cells in the grid are equidimensional and measure one mile (5,280 feet) a side. The origin of the model grid was set to correspond as closely as possible with the government survey grid, with each model cell representing approximately one section of land (Figure 12). Variations in the survey grid made this somewhat difficult, especially in Okeechobee County, but overall the fit was good.

MODFLOW offers two options for vertical discretization. In a fully three-dimensional model, the confining zones are represented in the model as individual layers. Values of transmissivity, storage, and vertical hydraulic conductivity for the confining zone are required for this approach. A fully three-dimensional model would more accurately simulate flow conditions where horizontal flow in the confining zone is an important part of the flow regime. In a quasi-three-dimensional model, the confining zones are not represented as individual layers, but as vertical conductance terms (Vcont) for beds separating the model layers representing aquifers. Within the study area, the values of hydraulic conductivity exhibited by the aquifers are several orders of magnitude greater than those in the confining zones. Therefore, it can be assumed that on the regional scale of the model flow in the aquifers is primarily horizontal, and flow across the confining zones is primarily vertical, and the quasi-three-dimensional approach is a good approximation of the ground water flow regime in the UECPA.

The UEC FAS model contains four layers (Figure 13). Layer 1 represents the Surficial Aquifer System, layer 2 the UFA, layer 3 and 4 represent LFAPZ1 and LFAPZ2, respectively. A more thorough breakdown including brief layer description follows.

Layer 1: Surficial Aquifer System (SAS). The interval between ground level and the top of the Hawthorn Group is approximately 90-240 feet in depth and composed of fine to medium sands, shell, limestone, sandstone, silt and clays. Lithology alternates in composition with depth and is lumped together as one unconfined layer.

Layer 2: Upper Floridan Aquifer (UFA). The UFA includes a series of flow zones associated with solution cavities and erosional surfaces. The UFA, despite its multiple flow zones, was simulated as one model layer rather than multiple layers for three reasons: 1) the vast majority of permitted irrigation wells completed into the Upper Floridan Aquifer

TABLE 1. MODFLOW PACKAGES USED IN THE UECPA MODEL

MODFLOW PACKAGE	FUNCTION	USE IN MODEL
BASIC	Model Administration	Used
BLOCK CENTERED FLOW	Computation of conductance and storage components of finite-difference equations.	Used
WELL	Simulates a source/sink to the aquifer that is not affected by heads in the aquifer.	Used to represent discharge from irrigation and public water supply water use.
GENERAL HEAD BOUNDARY	Simulates a source/sink of water providing recharge/ discharge to the aquifer at a rate proportional to the head difference between the source/sink and the aquifer.	Used along all model boundaries in layers 2 and 3.
STRONGLY IMPLICIT PROCEDURE (SIP)	Solves the model's finite difference equations using the Strongly Implicit Procedure.	Used
OBSERVATION NODES	Generates a file of computed water levels for selected model cells.	Used to generate comparative hydrographs and calibration agreement.

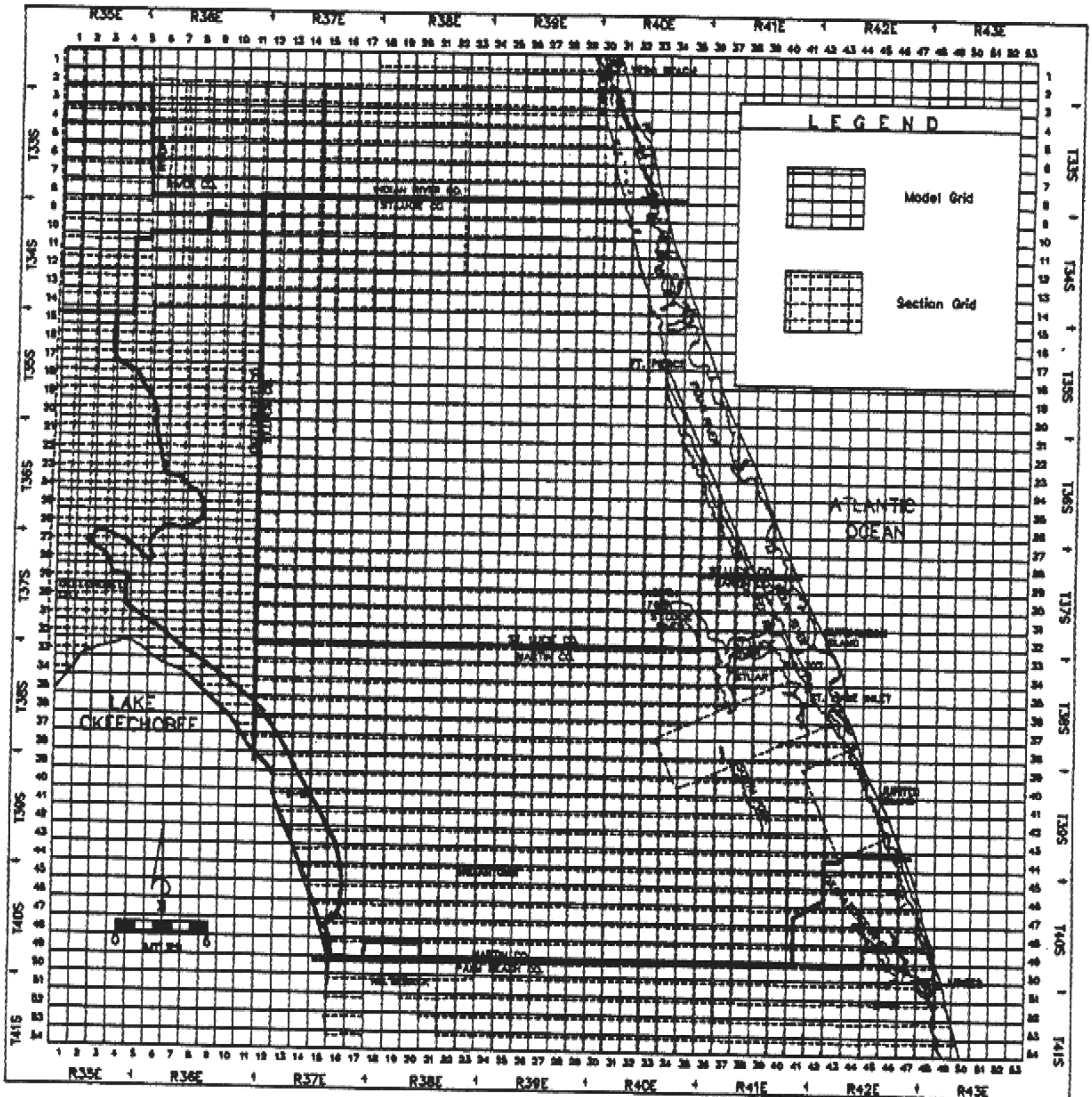

FIGURE 12: Model Grid in Relation to Surveyed Section Borders

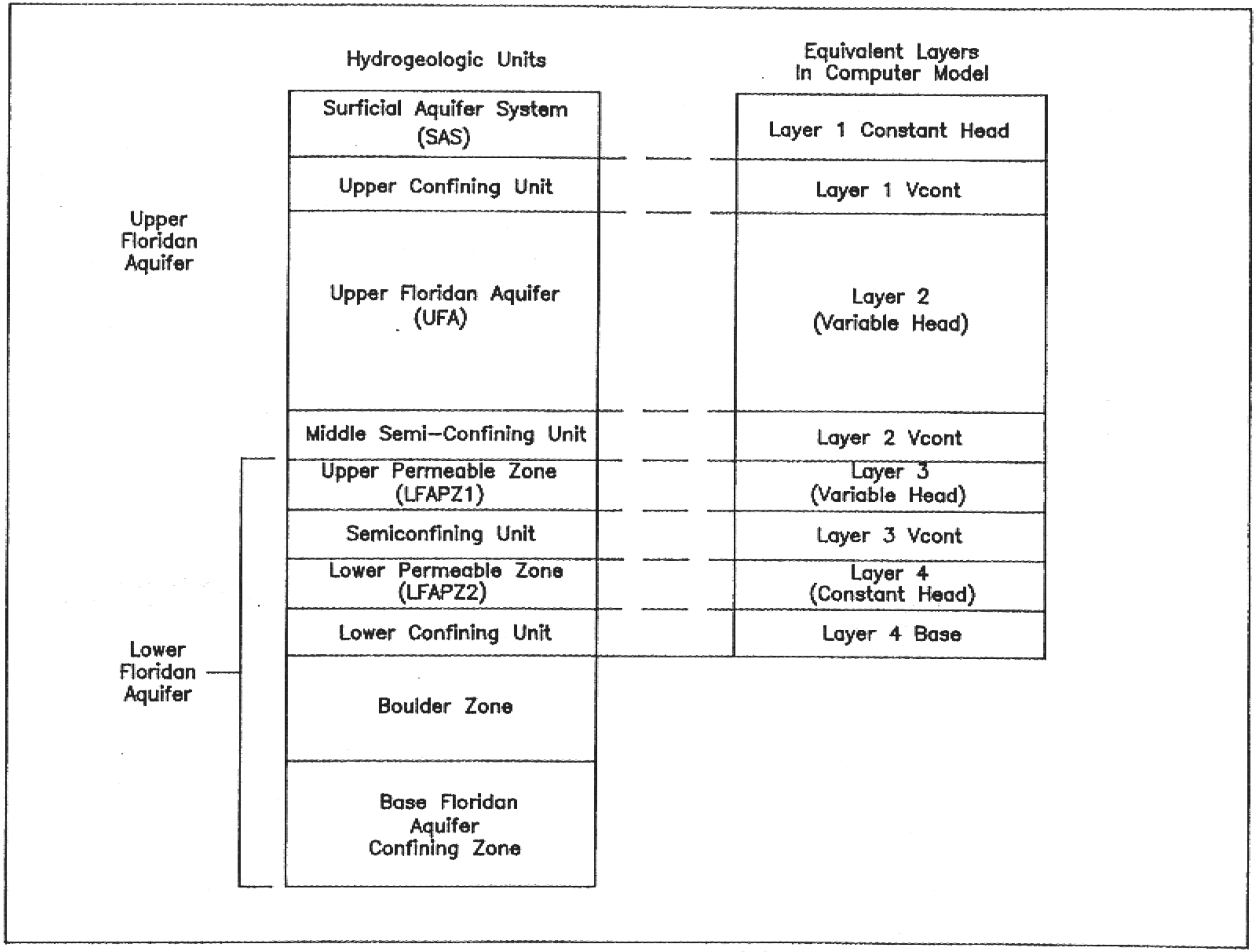

FIGURE 13: Hydrogeologic Units and Corresponding Model Layers

penetrate all or most of the flow zones mentioned above so that withdrawals are from a composite of zones, 2) monitor wells used to calibrate the model are open to multiple zones within the Upper Floridan, making calibration of multiple layers impossible and 3) previous model work by the U. S. Geological Survey discretized the Floridan in East Central Florida in the same manner (Tibbals, 1991).

Geophysical and lithological data abound for the Upper Floridan, because the vast majority of water users in the area complete wells into this portion of the aquifer. There are much less data available for the Lower Floridan Aquifer and the middle semi-confining unit.

The middle semi-confining unit separates the UFA from the LFAPZ1. It is approximately 200-400 feet thick and leaky. The hydraulic connection between the Upper and Lower Floridan Aquifers has been tested via aquifer performance tests in three District-sponsored studies within the modeled area (Wedderburn & Knapp, 1981; CH2M Hill, 1989; SLF-73, SFWMD unpublished APT data). Leakance values obtained from these tests are very similar and average 0.04/day. With few exceptions, this leakance value was employed throughout the modeled area.

Layer 3 and 4: LFAPZ1 and LFAPZ2, respectively. The portion of the Lower Floridan Aquifer reflected by these layers is approximately -1,000 to -1,500 feet NGVD, and 500 feet thick. It is composed of limestones, dolomitic limestones, and dolomites of Eocene age. The entire Lower Floridan Aquifer is 2,000 feet thick in the study area and extends vertically to the top of the Cedar Keys formation (3,000 feet deep). The model conceptualization includes only the upper 500- foot portion of the Lower Floridan, the base of which is commonly found just above the 10,000 mg/l TDS water quality demarcation. An erosional surface exists at the contact between the middle confining interval and the top of the Lower Floridan Aquifer. The surface is considered the top of the Lake City Limestone as described by Applin and Applin (1944). It is easily recognized in borehole geophysical logs by its relatively high electrical resistance and is persistent throughout the study area. It marks the top of layer 3 in the model. In recent writings, the USGS has chosen to meld the former Lake City limestone with the Avon Park formation.

Recent drill stem packer tests (SFWMD, unpublished 1991) indicate the top 500- foot portion of the Lower Floridan contains at least two separate flow zones hydraulically separated by a semi-confining interval composed of homogeneous dolomitic limestones. These two flow systems, LFAPZ1 and LFAPZ2, are conceptualized in the model as layers 3 and 4, respectively.

BOUNDARY CONDITIONS

The function of boundaries is to impose the effects of the external regional flow system on the modeled area. Several types of boundary conditions are available in MODFLOW. Prescribed flux, specified or constant head and no-flow boundaries were used in this model. Specified head boundaries are those where the head at the boundary remains constant for the model duration. Prescribed flux is used to simulate boundary head changes with time. No-flow boundaries are used where the ground water flow regime is such that flow across a boundary is not expected to occur.

The general head boundary package was used to generate prescribed flux boundaries in layers two and three. According to McDonald and Harbaugh (1988), a general head boundary consists of a water source outside the modeled area which supplies or removes water to a model cell at a rate proportional to the head difference between the source and the adjacent cell. The rate at which water is supplied to a cell is given by:

$$Q_m = C_m(H_m - h) \tag{1}$$

where

Q_m is the flow rate to or from the cell from boundary m (ft3/day)

C_m is the constant of proportionality for boundary m (ft3/day)

H_m is the average head at the source boundary m (ft), and

h is the average head in the cell (ft)

The constant of proportionality for boundary m defined herein as the horizontal conductance, C_m, (ft2/day) was calculated using equation 2:

$$C_m = K_h \, b \, W / F_c \, L \tag{2}$$

where

K_h is the horizontal hydraulic conductivity of the cell (ft/day);

b is the average thickness of the layer (ft);

W is the width of the cell (ft)

F_c is a dimensionless calibration factor for general head boundary representation;

L is the length of the assumed flow path line (ft)

A potential problem in the use of specified head boundaries is that the model may overestimate the flow into the model if steep ground water gradients (such as those around a pumping well) approach the boundary. A breakdown of boundary cell types and geographic limits are discussed below.

Boundary Cell Types

Constant Head

Layer 1: All cells in layer 1 (SAS), are assigned specified (constant) heads. Layer 1 is effectively separated from layer 2 (FAS) by thick clays and silts of the Hawthorn confining zone. Since the SAS is independent of the FAS and because the scope of this project does not include calibrating the SAS, layer 1 heads were held constant to reduce unnecessary work in further simulating this unconfined system. For the purposes of this study, water levels for layer 1 were assumed to be approximately 5 feet lower than ground level elevation. Topographic levels were obtained from USGS quadrangle maps of the study area, heads for each cell were obtained by subtracting five feet from the topographic levels as referenced to mean sea level. The resultant heads were not permitted to fall below zero. The resultant levels are presented graphically in Appendix A, Figure A-3.

The Surficial Aquifer System was modeled independently in two separate studies currently in press (Adams, 1992, and Padgett, in press).

Layer 4: All cells in layer 4 (LFAPZ2), are assigned specified heads. Heads in this layer were found to be approximately equivalent to heads in layers 2 and 3, however, there were no temporal data available documenting head changes if they exist. Calibration of this layer was not possible due to the lack of head data. Water levels in the Upper Floridan Aquifer (layer 2) fluctuate seasonally in response to stresses induced by pumping. However, since there were no significant well withdrawals from the Lower Floridan Aquifer (layers 3 and 4) and because there is over 500 feet of confinement between layers 2 and 4 it was assumed that fluctuations in layer 4 heads were minimal. Based on those assumptions, all cells in layer 4 were simulated as constant head. The specified head value for each boundary cell in layer 4 was set equal to the boundary cell heads in layer 2 observed in March, 1990.

Head Dependent Flux Boundary

Layers 2 and 3: Potentiometric data have been gathered monthly in the Upper Floridan Aquifer (layer 2) corresponding to each stress period in the model simulation and were used to develop a general head package. Figure 14 shows the type cells comprising both layers 2 and 3. Potentiometric maps indicate a small change in flux with time across the boundaries, justifying the need for a specified flux boundary. The water levels in the LFAPZ1 (layer 3) are influenced by and nearly equal to those in the UFA (layer 2) as evidenced by hydrographs in wells completed into these zones. Therefore, it was assumed the heads at all boundaries in layers 2 and 3 were equal. These head values were determined for each cell of all boundaries by interpolating existing monthly UFA (layer 2) water level data.

Conductance terms are required input for specified flux cells. Conductance values are initially based on the length, width, layer thickness, and hydraulic conductivity of the boundary cell and adjacent variable head cell. The physical basis for conductance between two adjacent cells was previously discussed and is expressed by equation 2 in the Boundary Conditions section. Equation 2 simplifies to $C=T$ when the following assumptions and conditions are met:

$L = W$; given for equidimensional cells

$K_h{*}b = T$; given

$F_c = 1.0$; default calibration factor

In general, however, it should be recognized that formulation of a single conductance term to account for a three-dimensional flow process is inherently an empirical exercise, and that adjustment during calibration is almost always required (McDonald and Harbaugh, 1988). In order to better simulate a constant head boundary around the active edges of the model and to best calibrate the transient model, the calibration factor Fc, as shown in equation 2, was set to 0.1. Using the assumptions given above for values of L and T, and setting Fc equal to 0.1, the solution to equation 2 is $C=10T$. Therefore, the conductance value for all boundary cells was set equal to ten times the cell's transmissivity.

Increasing the conductance term caused the prescribed flux boundary cells to function as prescribed head cells. Prescribed head cells differ from constant head cells in that the head values can change between stress periods. The setting of $Fc = 0.1$ was considered the best adjustment for two reasons:

1) Monitor wells on the boundaries calibrated better.

2) Volumetric budget data reflect a significant influx of water into the system from the boundaries rather than exclusively from below through vertical leakance.

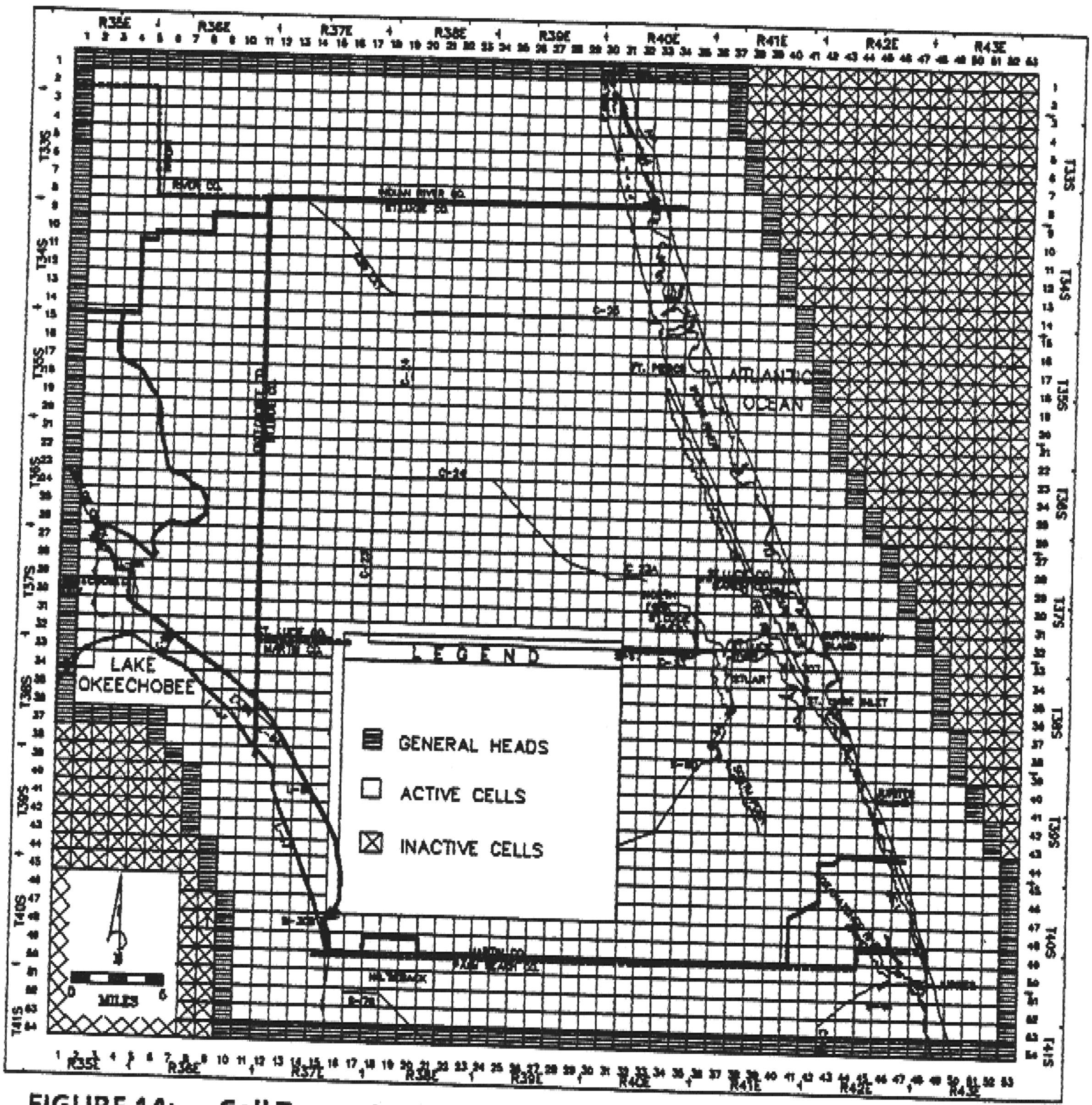

FIGURE 14: Cell Types, Layer 2 and Layer 3

Geographic Limits and Locations of Boundaries

Figure 15 shows the boundaries and type cells used for every layer in the model. Layer 1 (SAS) is composed entirely of constant head cells. The boundaries are also constant head cells and were set varying distances outside the study area. In a clockwise direction, the distance each boundary extends outside the study area were: north eight miles, east five miles from the coastline, south five miles, and west approximately five miles. Layers 2 and 3 consist of general head boundaries which extend outside the study area the same distance as layer 1 in all directions except the east. This eastern boundary was extended five miles east of the barrier island toward the Atlantic Ocean. Layer 4, like layer 1, is composed of constant head cells, its boundaries are located in the same place as layers 2 and 3.

In all layers, the north boundary was set eight miles (cells) into Indian River County in order to include the large withdrawals from the UFA north of the study area political boundary (St. Lucie-Indian River County Line). Dense citrus groves irrigate with Floridan Aquifer System water from more than 500 wells in this northern eight miles of the model area. Utilities in southern Indian River County operate R.O. plants which together withdrew approximately 70 million gallons in March, 1990. The combined agricultural and public water supply stresses alter the flow system in the study area and are, therefore, necessarily included in the simulation.

Layers 2 and 3 are composed of active cells and are represented at the boundaries by general head cells (head dependent flux). The placement of the boundaries for these two layers is identical. Layer 2 (the UFA) and layer 3 (the LFAPZ1) are confined and occur -400 to -1,000 feet NGVD and -600 to -1,300 feet NGVD respectively near the coast. These layers are not hydraulically connected with the ocean at the east model boundary. The FAS outcrops ten to twenty miles east of the coast in the Straits of Florida at a depth of approximately 900 feet below sea level (Figure 16). The boundary was placed five miles east of the coast to avoid boundary effects within the study area. For this modeled system, five miles is an acceptable buffer area separating an area of interest from a boundary (Richard Bower, verbal communication, 1989).

The remaining south and west model boundaries were set a minimum of five miles (cells) outside the study area to avoid boundary effects as explained above.

HYDRAULIC CHARACTERISTICS

Transmissivity

Layer 1

MODFLOW requires input of hydraulic conductivity values for unconfined layers. However, as discussed previously, all cells in layer 1 are the prescribed head (constant head) type. This designation causes one value of head for each cell to be maintained throughout the simulation, thus heads are not calculated for cells in this layer. Therefore, aquifer parameter values provided, with the exception of starting head and Vcont values, are irrelevant to the model run.

Layer 1 is specified as unconfined in the model. MODFLOW calculates the transmissivity of unconfined aquifers by multiplying the user-specified hydraulic conductivity by the saturated thickness of the aquifer. Initial saturated thickness is calculated from the starting head and aquifer bottom data, both of which are required input for an unconfined aquifer.

A hydraulic conductivity of 50 ft/day was applied regionally for layer 1 representing the SAS. This value represents an approximate average of values obtained in APT tests in the area (Padgett, Adams, verbal communications). Elevation at the layer bottom was identified using borehole geophysical logs and available lithological information (Appendix A-1). A matrix of values was obtained by applying a kriging interpolation technique to these data points.

Layer 2

Layer 2 (UFA) is specified as confined in the model. In a confined system, the water level does not usually fall below the top of the aquifer, so the transmissivity remains constant since the aquifer remains completely saturated. Therefore, a direct value for transmissivity is the required input rather than hydraulic conductivity and thickness.

Transmissivity values were obtained from several sources:

- Bower (1988) specific capacity regression curve methodology. A new, but similar regression curve was generated for this study.
- Recent consultant reports.
- Indian River Hydrogeology publication; USGS (1988).
- Results of a recent drilling and testing project conducted by the SFWMD on C-24 canal (SLF73), St. Lucie County.

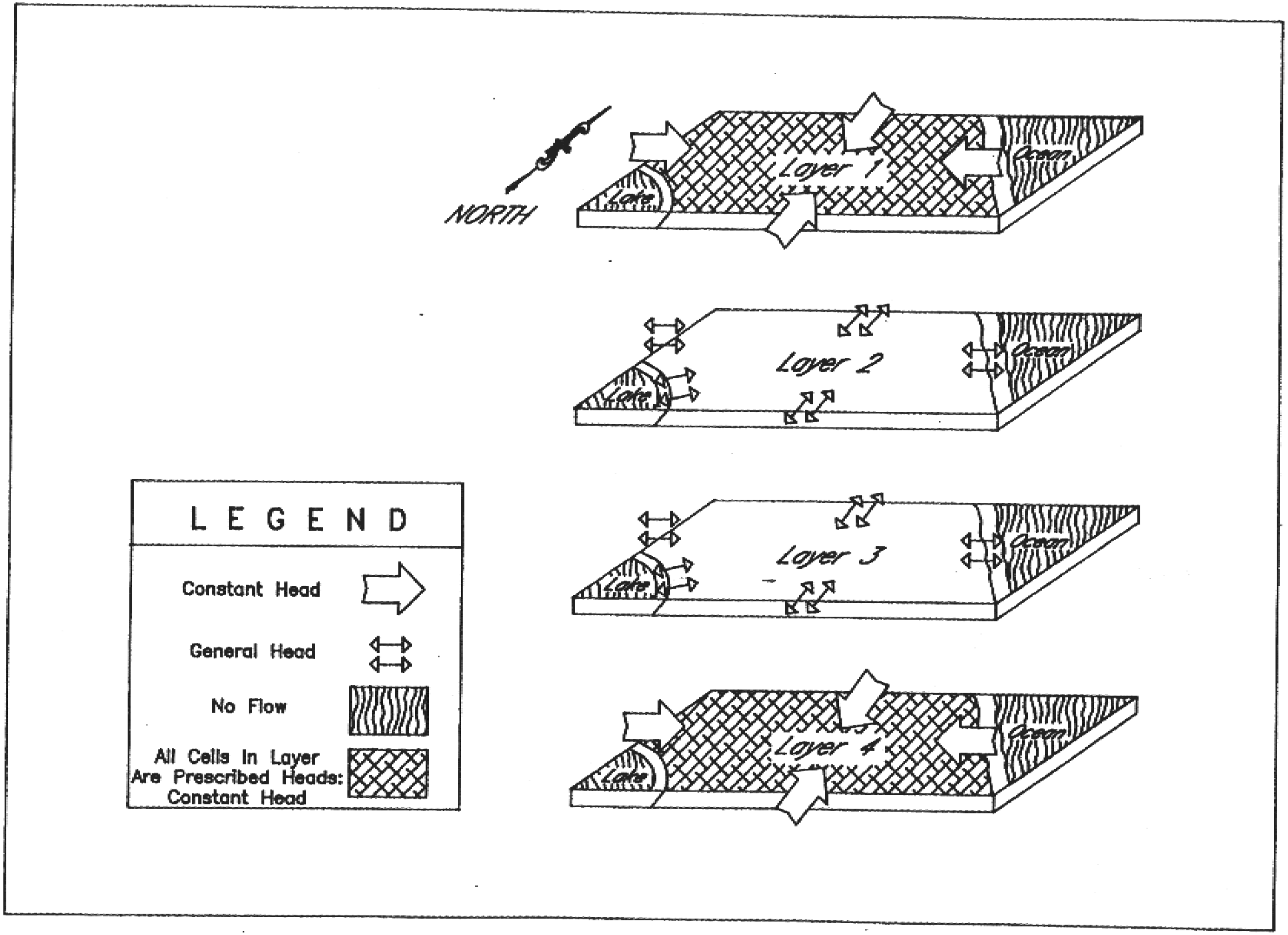

FIGURE 15: Model Boundary Conceptualization, Layers 1 through 4

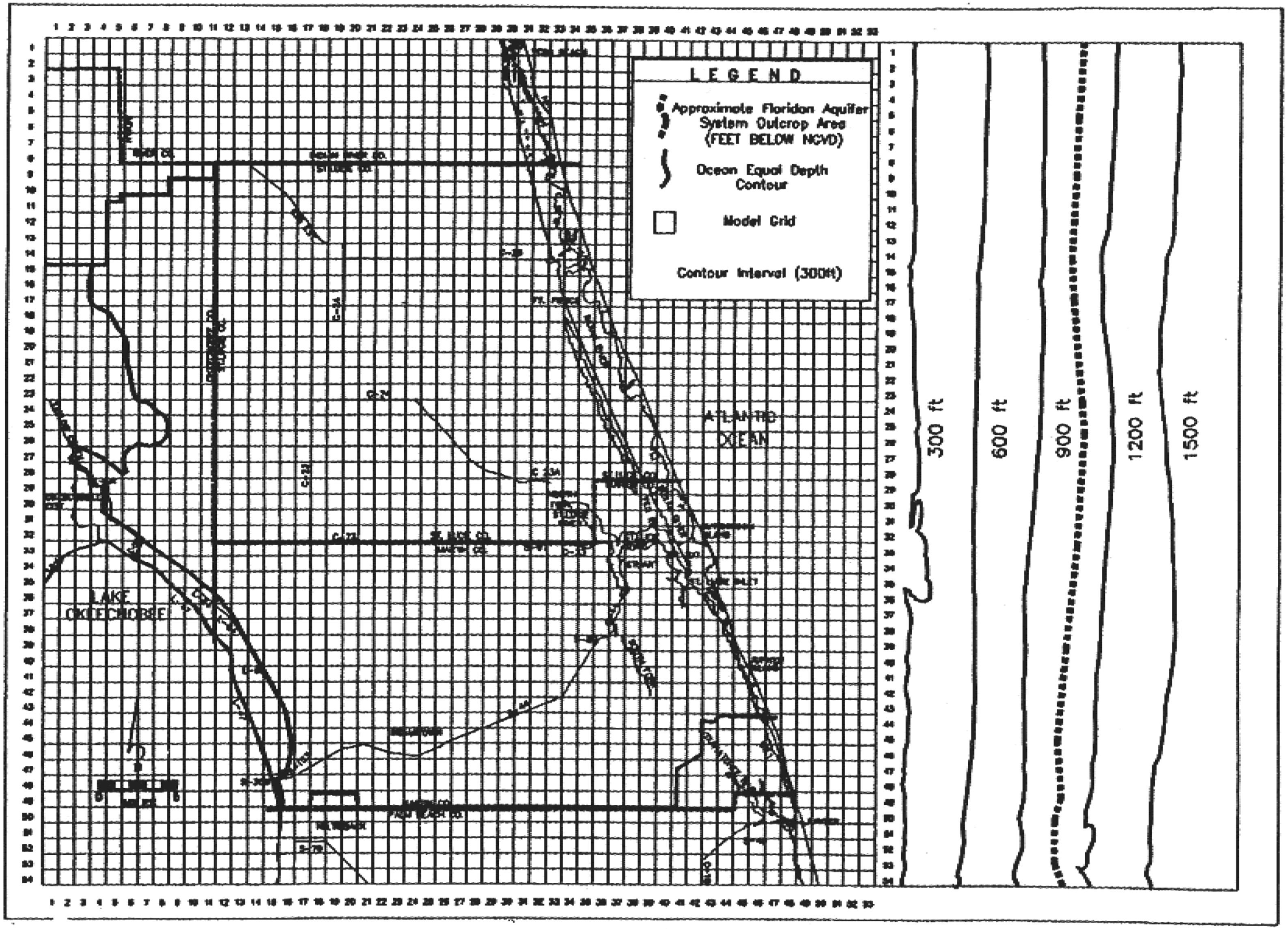

FIGURE 16: Bathymetry in Respect to Floridan Aquifer System Outcrop Area

Most transmissivity values were obtained using the same procedure originally outlined by Trost (unpublished report, 1985) and later adopted by Bower (1988). Here, specific capacity values are related to transmissivity by using a regression analysis on 19 values of corrected specific capacity and associated values of transmissivity. The relationship is described in the equation:

$$log_{10}(T_e) = 4.056 + 0.816(log_{10}(S_{cc})) \qquad (3)$$

where

T_e = estimated transmissivity value (gpd/ft)

S_{cc} = corrected specific capacity value (gpm/ft)

The correlation coefficient, r, determined in the regression analysis was 0.83 (Bower, 1988).

For this study, a new regression curve was generated (Figure 19) using the same data originally used by Trost (Brown, 1980) with minor modifications. When generating the regression curve, three new data points were incorporated into the analysis. The transmissivity and specific capacity data added are denoted in Tables 2 and 3. Where possible, the raw data from the aquifer performance tests were analyzed by the author to determine aquifer parameters independently. The new regression curve is presented in Figure 17. The new correlation coefficient calculated was 0.73 which indicates a statistically high reliability for the linear relationship established. Specific capacity data for 56 wells in the UECPA then were used to predict transmissivity for those wells. The locations of all transmissivity values from sources listed above are shown in Figure 18. Their values are cross referenced to Table 2. These values were regionalized using a kriging interpolation technique to create an array. A regional map of transmissivity for layer 2 (UFAS) used in this model is presented in Figure 19.

Transmissivity was altered to 670 ft²/day (5,000 gpd/ft) in grid cells east of a structural feature indicative of faulting or downwarping. A trace of this feature follows the Intracoastal Waterway from Vero Beach to north Martin County, where it veers east toward the ocean (Figure 20). Hydraulic discontinuity is suspected along this line. For ease of reference, the term "fault" is applied loosely in describing the hydraulic characters associated with this structural and hydrogeologic anomaly. The emphasis here is not the cause of the feature, but the effects it has on the hydrogeology of the area. Previous works by Lichtler (1960), Law Engineering (1975), Mooney (1980), and Armstrong (1980) describe and discuss its nature in detail.

Permeability contrasts are observed between FAS wells on either side of the fault. East of the fault, wells have lower yield and drastically reduced permeability than wells on the west side. The model's sensitivity to transmissivity near the fault trace has a limited effect on modeled water levels in cells on either side of the fault. The value applied regionally to the downthrown (eastern) portion of the fault was estimated based on well yields and APT's from wells drilled in the FAS at Brynn Mawr Boy's Club and Joe's Point. Both wells indicate very low permeability in the UFAS. Hydrographs of observation wells SLF-46 and SLF-47 on the east (downthrown) side show considerably more drawdown than would be expected if transmissivity were higher. The geographic location and placement of the fault trace was based on the following:

1) the assumption that the wells discussed above with anomalously low permeability in the FAS are located east of the fault line,
2) study of cores in the Martin County area by Armstrong (1980), and
3) a thorough analysis of the available geophysical logs along both sides of the fault.

Layers 3 and 4

Figure 21 shows the locations of all wells in the modeled area where aquifer parameters are available for layers 3 and 4. Well construction and aquifer parameters are listed in Table 3 along with the model layers penetrated by each well.

Only three composite (layers 3 and 4) transmissivity values exist for these layers: the Lake Okeechobee ASR project (535,000 ft²/day), the C-24 canal Floridan drilling project (100,000 ft²/day (tentative)) and the Florida Power & Light study near Indiantown (334,000 ft²/day, Ebasco Envir., 1990). It was conservatively assumed that these transmissivity values may be higher than the regional value, so a composite estimate of 66,845 ft²/day was used. The 66,845 ft²/day (500,000 gpd/ft) value is divided equally between layer 3 (LFAPZ1), and layer 4 (LFAPZ2) and applied regionally for every cell in both layers. The model's sensitivity to changes in transmissivity was analyzed for layers 3 and 4; it was found to be minimal.

Specific Yield

Specific yield of the SAS (layer 1) was set at 0.2, which represents the average value of the sediments that make up the aquifer (Fetter, 1980). Since the layer is comprised of cells assigned constant heads, the value given is irrelevant but necessary to input.

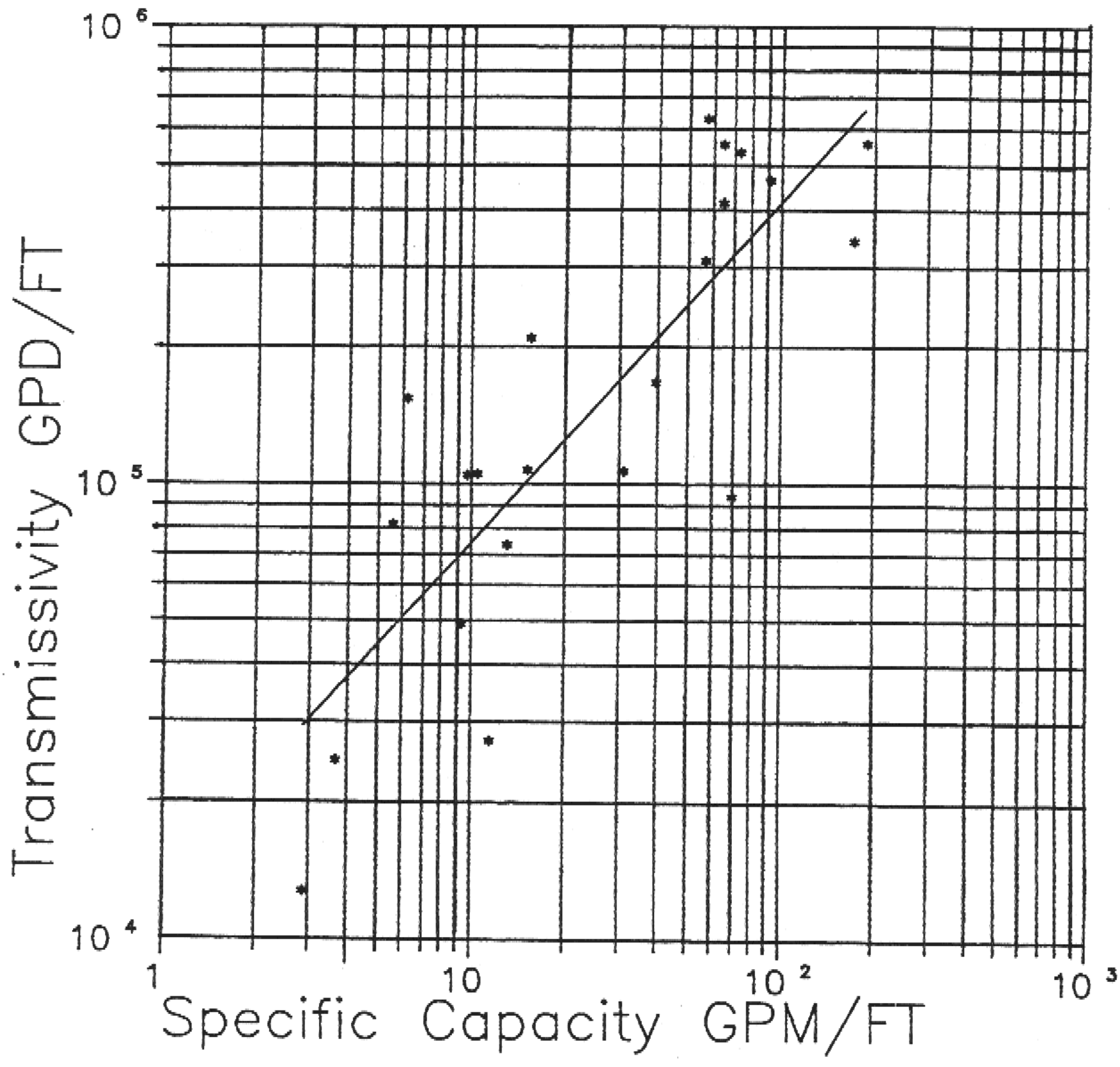

FIGURE 17: **Modified Regression Curve Used to Calculate Transmissivity using Specific Capacity Data**

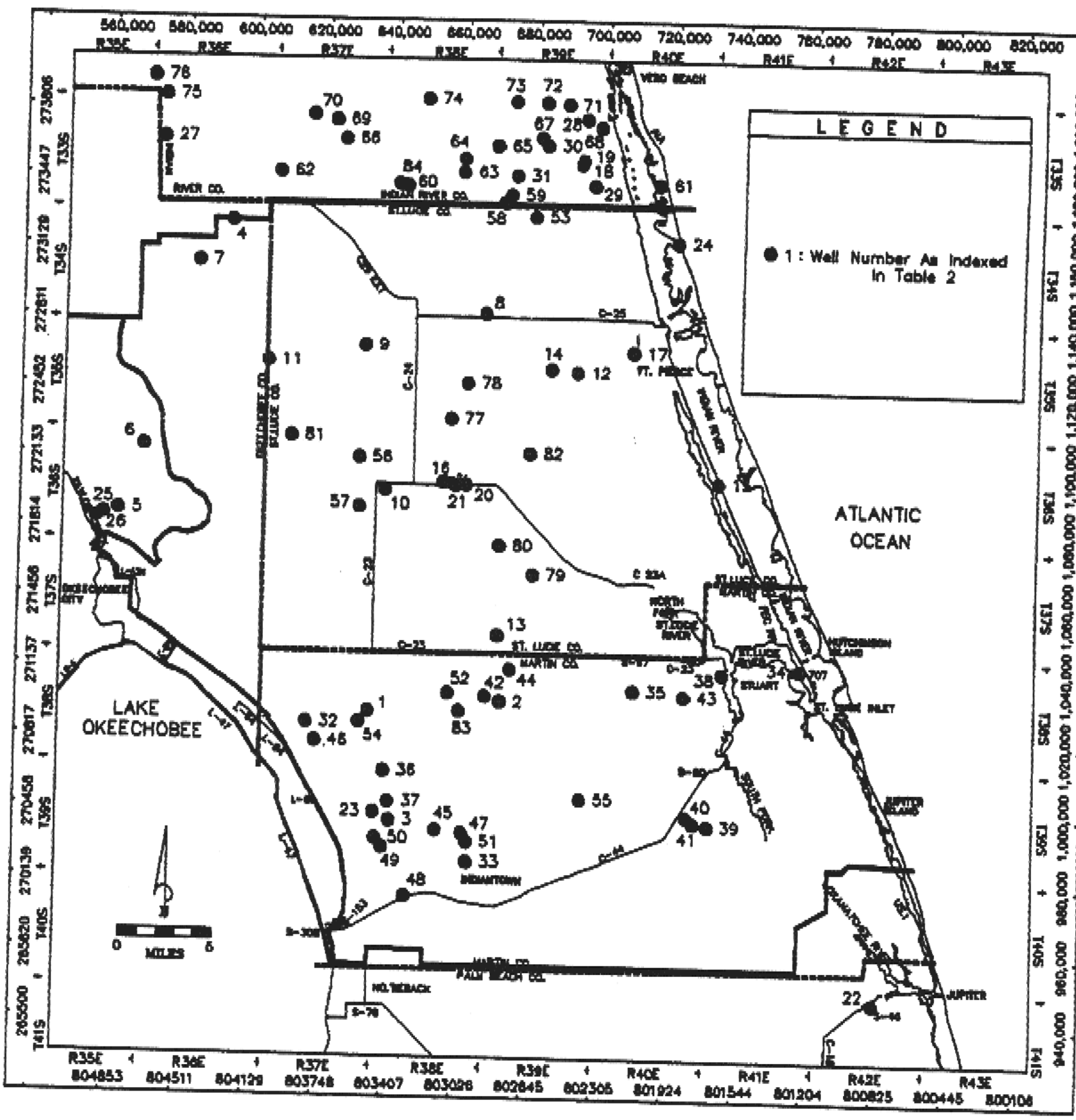

FIGURE 18: Location of Wells with Transmissivity and Specific Capacity Data Used in Model, Layer 2

TABLE 2: LAYER 2 (Upper Floridan Aquifer) AQUIFER PERFORMANCE TEST DATA USED IN MODEL

MAP #	WELL NAME	STATE PLANE COORDINATES (FT)		TOTAL DEPTH (Feet)	CASING DEPTH (Feet)	TRANS-MISSI-VITY (gpd/ft)	ANALYSIS METHOD	STORA-TIVITY (E-4/D)	SOURCE
		X	Y						
1	MF-6*	635487	1027110	1052	400	104900	SR		BROWN, 80-1
2	MF-9*	673410	1030384	880	342	104300	SR		BROWN, 80-1
3	MF-23*	642188	996134	1119	456	73500	SR		BROWN, 80-1
4	OKF-2*	593433	1166945	666	218	153400	SR		BROWN, 80-1
5	OKF-5*	562688	1083782	1181	440	341600	SR		BROWN, 80-1
6	OKF-7*	569511	1102271	963	412	27200	SR		BROWN, 80-1
7	OKF-13*	584276	1155313	1200	600	556000	SR		BROWN, 80-1
8	SLF-4*	667351	1141435	993	482	461700	SR		BROWN, 80-1
9	SLF-9*	632615	1131915	1058	256	531526	SR		BROWN, 80-1
10	SLF-15*	639063	1090535			629200	MR	9.5	BROWN, 80-1
11	SLF-20*	604518	1127187	896	311	81495	SR		BROWN, 80-1
12	SLF-21*	693823	1124791	707	156	49000	SR		BROWN, 80-1
13	SLF-23*	672337	1049363	894	350	106700	SR		BROWN, 80-1
14	SLF-24*	686340	1125563			208500	MR	1.9	BROWN, 80-1
15	SLF-28*	734915	1093704	883	200	24600	SR		BROWN, 80-1

LEGEND FOR METHODS OF ANALYSIS:

WAL: WALTON TYPE CURVE MATCHING, MONITOR WELL AVAILABLE
SR: SINGLE WELL RECOVERY TEST/JACOB STRAIGHT LINE
USGS: USGS WATER INVESTIGATIONS REPORT 88-4073
SC: SPECIFIC CAPACITY FIT TO REGRESSION CURVE
MR: MONITOR WELL RECOVERY TEST/JACOB STRAIGHT LINE
USGS: USGS PROVISIONAL DATA TYPE UNKNOWN; TROST UNPUB.
WALT: WALTON TYPE CURVE MATCHING
*: DENOTES WELLS USED IN REGRESSION ANALYSIS
**: NEWEST DATA USED IN REGRESSION ANALYSIS

TABLE 2: LAYER 2 (Upper Floridan Aquifer) AQUIFER PERFORMANCE TEST DATA USED IN MODEL

MAP #	WELL NAME	STATE PLANE COORDINATES (FT)		TOTAL DEPTH (Feet)	CASING DEPTH (Feet)	TRANS-MISSI-VITY (gpd/ft)	ANALYSIS METHOD	STORA-TIVITY (E-4/D)	SOURCE
		X	Y						
16	SLF-51*	662505	1092238	1000	600	107077	WALT	2.7	Wedderburn, 83-7
17	FBW-1**	709923	1130728	904	508	309000	SR		CH2M HILL, 1988
18	GM.IR37F	693717	1184269	745	N/A	50000	USGS	4	Schiner, 1988
19	SJ.IR40F	694252	1185282	704	N/A	56800	USGS	3.9	Schiner, 1988
20	SLF75	659259	1092023	700	480	210000	WALT	2.3	SFWMD, Unpublished
21	SLF76	659259	1092023	860	790	110000	WALT	6.4	SFWMD, Unpublished
22	JUP-R.O.	781929	945861	1500	1073	36890	MR	8	Geraghty & Miller, 1989
23	LFM1-S**	642688	996090	1202	800	94000	WALT	7.0	Ebasco Environ., 1990
24	BRYN MAWR	722002	1162199	1730	640	253	SR		Geraghty & Miller, 1990
25	OKF-26	556377	1081248	825	625	54945	SC		Trost, Unpublished
26	OKF-27	556377	1081248	725	477	51695	SC		Trost, Unpublished
27	FGS-IR202	573587	1190634	700	209	126082	SC		Trost, Unpublished
28	FGS-IR243	695094	1197000	900	220	81666	SC		Trost, Unpublished
29	FGS-IR245	697706	1178129	850	220	100083	SC		Trost, Unpublished
30	FGS-IR251	683885	1189474	700	220	123915	SC		Trost, Unpublished
31	FGS-IR253	675286	1180751	800	220	119582	SC		Trost, Unpublished
32	FGS-M-29	617612	1023723	1100	450	82750	SC		Trost, Unpublished
33	FGS-M-34	664652	984707	1100	450	372713	SC		Trost, Unpublished
34	FGS-M-88	759605	1040536	1180	700	75167	SC		Trost, Unpublished
35	FGS-M-143	711689	1033897	958	272	139804	SC		Trost, Unpublished
36	FGS-M-146	640332	1010264	1155	432	217440	SC		Trost, Unpublished

TABLE 2: LAYER 2 (Upper Floridan Aquifer) AQUIFER PERFORMANCE TEST DATA USED IN MODEL

MAP #	WELL NAME	STATE PLANE COORDINATES (FT)		TOTAL DEPTH (Feet)	CASING DEPTH (Feet)	TRANS-MISSI-VITY (gpd/ft)	ANALYSIS METHOD	STORA-TIVITY (E-4/D)	SOURCE
		X	Y						
37	FGS-M-168	641808	1001484	1080	500	183136	SC		Trost, Unpublished
38	FGS-M-443	737038	1039085	951	275	70472	SC		Trost, Unpublished
39	FGS-M-740	733492	995745	990	474	278827	SC		Trost, Unpublished
40	FGS-M-741	727512	998235	890	460	71917	SC		Trost, Unpublished
41	FGS-M-742	729510	996530	1003	460	67945	SC		Trost, Unpublished
42	FGS-M-746	669159	1031881	510	360	103332	SC		Trost, Unpublished
43	FGS-M-748	726237	1032561	773	397	76611	SC		Trost, Unpublished
44	FGS-M-759	676080	1039584	853	650	164719	SC		Trost, Unpublished
45	FGS-M-901	655486	993658	1110	490	91777	SC		Trost, Unpublished
46	FGS-M-909	620247	1018480	1095	470	99360	SC		Trost, Unpublished
47	FGS-M-913	663174	992779	1100	500	93944	SC		Trost, Unpublished
48	FGS-M-919	646966	974744	950	636	176636	SC		Trost, Unpublished
49	FGS-M-920	640226	988554	1033	488	74444	SC		Trost, Unpublished
50	FGS-M-921	638228	991072	1032	455	87444	SC		Trost, Unpublished
51	FGS-M-923	664539	990361	1000	500	155692	SC		Trost, Unpublished
52	FGS-M-927	658408	1032645	792	450	109110	SC		Trost, Unpublished
53	FGS-STL44	680828	1169163	691	125	150637	SC		Trost, Unpublished
54	USGS-M-1	632877	1024072	NA	NA	104700	SC		Trost, Unpublished
55	USGS-M-2	696936	1002924	NA	NA	112200	SC		Trost, Unpublished
56	USGS-STL2	631458	1099699	NA	NA	464000	SC		Trost, Unpublished
57	USGS-STL3	631684	1085563	NA	NA	168000	SC		Trost, Unpublished

TABLE 2: LAYER 2 (Upper Floridan Aquifer) AQUIFER PERFORMANCE TEST DATA USED IN MODEL

MAP #	WELL NAME	STATE PLANE COORDINATES (FT)		TOTAL DEPTH (Feet)	CASING DEPTH (Feet)	TRANS-MISSI-VITY (gpd/ft)	ANALYSIS METHOD	STORA-TIVITY (E-4/D)	SOURCE
		X	Y						
58	IR7F	671990	1172961	940	NA	258319	SC		Schiner, 1988
59	IR12F	673781	1175190	900	NA	279472	SC		Schiner, 1988
60	IR20F	643803	1177697		NA	323745	SC		Schiner, 1988
61	IR21F	716332	1178730	943	NA	40508	SC		Schiner, 1988
62	IR26F	606897	1181217	900	NA	284558	SC		Schiner, 1988
63	IR28F	660076	1181596	880	NA	734668	SC		Schiner, 1988
64	IR42F	660240	1185434	836	NA	366662	SC		Schiner, 1988
65	IR47F	669582	1189108	860	NA	149033	SC		Schiner, 1988
66	IR53F	625673	1190764		NA	507890	SC		Schiner, 1988
67	IR54F	682166	1191587	900	NA	344646	SC		Schiner, 1988
68	IR57F	699153	1194798	660	NA	94309	SC		Schiner, 1988
69	IR61F	622778	1196107	960	NA	539193	SC		Schiner, 1988
70	IR64F	616298	1197602	570	NA	238340	SC		Schiner, 1988
71	IR72F	689587	1201215	671	NA	55619	SC		Schiner, 1988
72	IR76F	683379	1201691	750	NA	61336	SC		Schiner, 1988
73	IR77F	674565	1201853	746	NA	86492	SC		Schiner, 1988
74	IR80F	649290	1202357		NA	165091	SC		Schiner, 1988
75	IR84F	573834	1202752		NA	111344	SC		Schiner, 1988
76	IR95F	570407	1208199	960	NA	237501	SC		Schiner, 1988
77	SLF27	657833	1111002	900	300	229062	SC		Trost, Unpublished
78	SLF40	662479	1121219	NA	376	111367	SC		Trost, Unpublished

TABLE 2: LAYER 2 (Upper Floridan Aquifer) AQUIFER PERFORMANCE TEST DATA USED IN MODEL

MAP #	WELL NAME	STATE PLANE COORDINATES (FT)		TOTAL DEPTH (Feet)	CASING DEPTH (Feet)	TRANS-MISSI-VITY (gpd/ft)	ANALYSIS METHOD	STORA-TIVITY (E-4/D)	SOURCE
		X	Y						
79	SLF61	682099	1066875	695	350	61119	SC		Trost, Unpublished
80	SLF62	672318	1075011	935	480	83132	SC		Trost, Unpublished
81	SLF67	611696	1105597	NA	300	107007	SC		Trost, Unpublished
82	SLF69	680591	1101403	NA	300	218429	SC		Trost, Unpublished
83	MF2	661770	1027509	NA	300	94933	SC		Trost, Unpublished
84	IR370	643803	1177697	NA	300	260087	SC		Trost, Unpublished

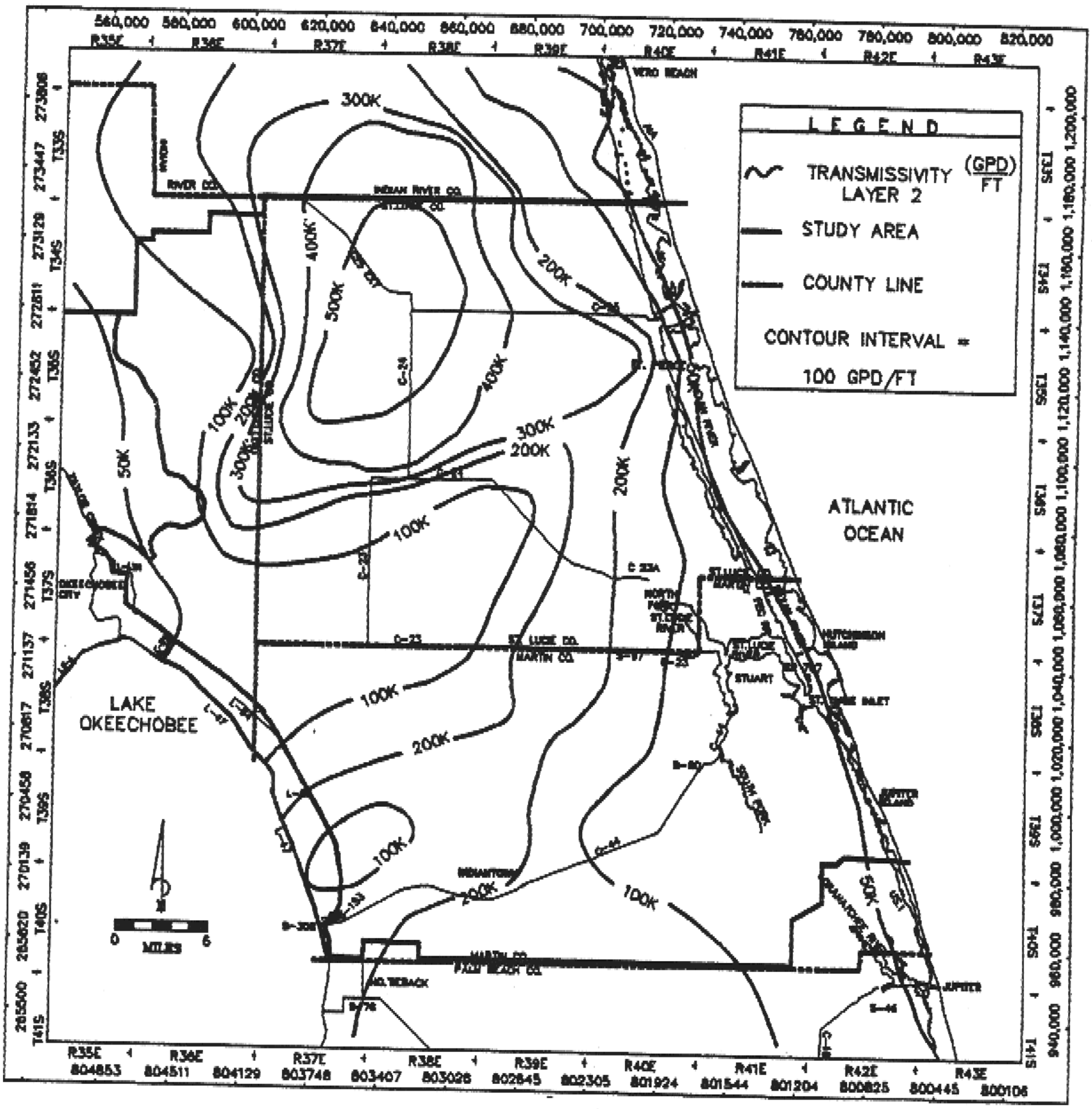

FIGURE 19: Transmissivity of the Upper Floridan Aquifer

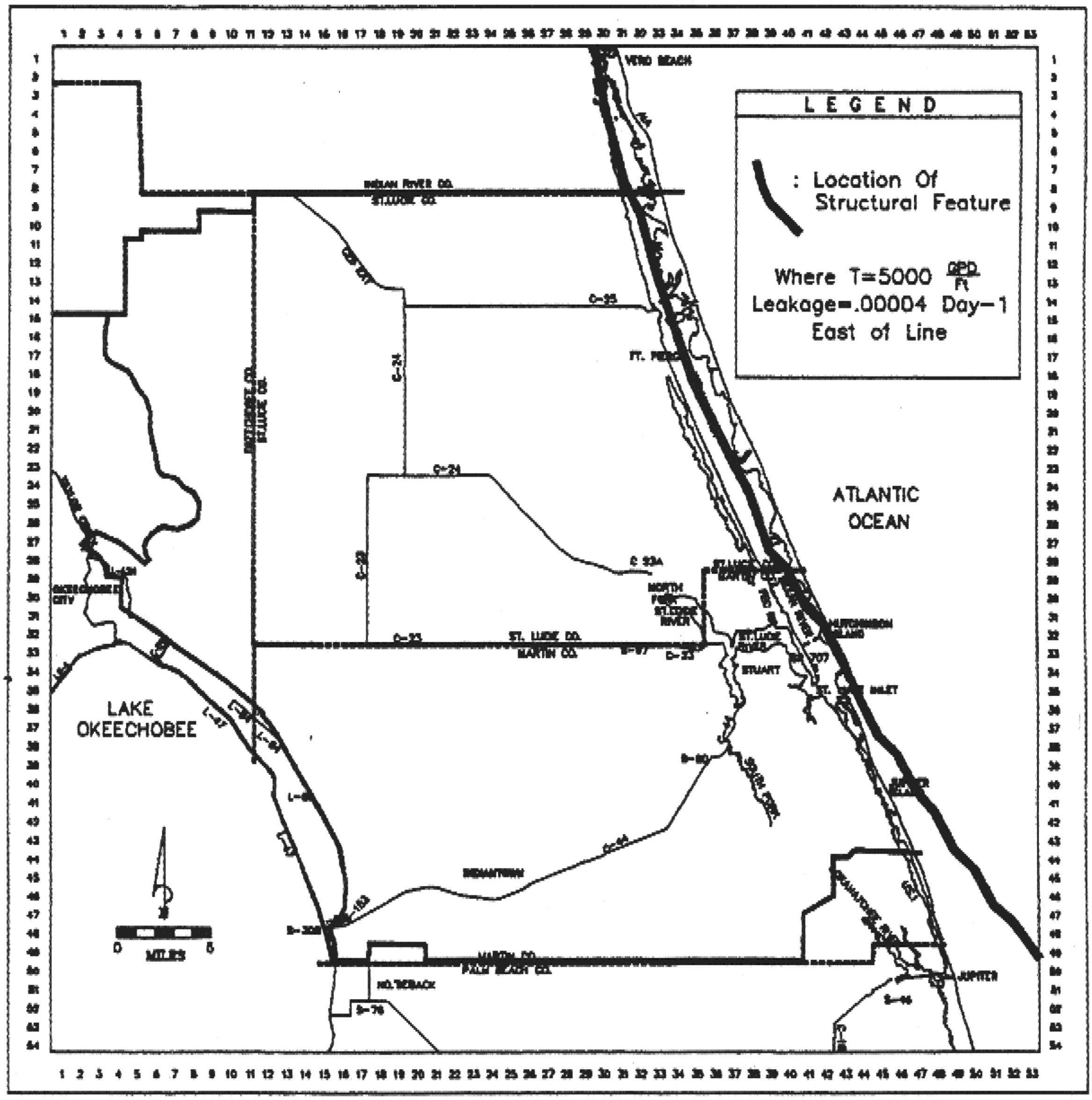

FIGURE 20: Location of Structural Feature Associated with Hydraulic Discontinuity, Transmissivity and Vertical Conductance Variance Used in Model

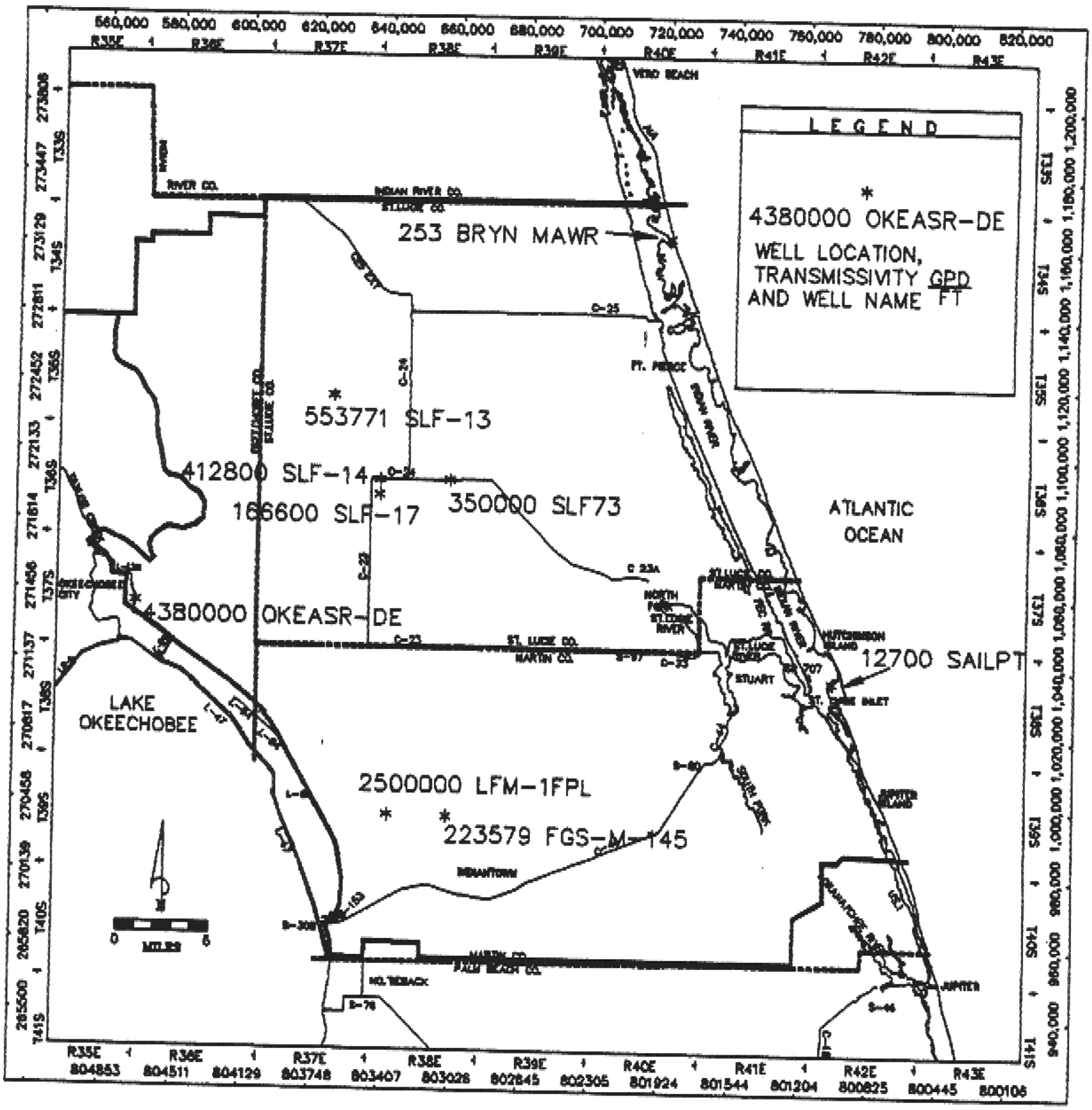

FIGURE 21: Location of Wells with Transmissivity Data, Layer 3 and Layer 4

TABLE 3: LAYER 2, 3 & 4 (FAS) - AQUIFER PERFORMANCE TEST DATA USED IN MODEL

WELL NAME	STATE PLANE COORDINATES (FT)		TOTAL DEPTH (Feet)	CASING DEPTH (Feet)	TRANS-MISSI-VITY (gpd/ft)	ANALYSIS METHOD	STORA-TIVITY (E-4/D)	LEAK-ANCE (Day^{-1})	SOURCE	MODEL LAYERS PENE-TRATED
	X	Y								
OKEASR-DEE	569590	1056025	1700	1268	4,380,000	HANJ	12.5	.01-.001	CH2M HILL, 1989	3, 4
LFM-1DEEP**	642688	996090	1648	800	2,500,000	HANJ	7	.0022	EBASCO ENVIR, 1990	3, 4
SLF-13*	625457	1115937	1238	344	553,771	SR			BROWN, 80-1	2,3
SLF-14*	639149	1091949	1286	318	412,800	SR			BROWN, 80-1	2,3
SLF-17*	639073	1087809	1286	320	166,600	SR			BROWN, 80-1	2,3
BRYN MAWR	722002	1162199	1730	640	253	SR			CARTER ASSOC., 1990	2,3
FGS-M-145	659636	995794	1485	425	223,579	SC			TROST, UNPUBLISHED	2,3, 4
SLF73	659259	1092023	1550	1080	350,000	WALT	2.6	0.044	SFWMD, UNPUBLISHED	3, 4
SAILPT	770566	1035356	1525	630	12,700	HANJ	5		GEE & JENSON, 1977	2,3

LEGEND FOR METHODS OF ANALYSIS:

WALT: WALTON TYPE CURVE MATCHING, MONITOR WELL AVAILABLE
HANJ: HANTUSH-JACOB CURVE MATCHING
SR: SINGLE WELL RECOVERY TEST/JACOB STRAIGHT LINE
SC: SPECIFIC CAPACITY FIT TO REGRESSION CURVE
*: DENOTES WELLS USED IN REGRESSION ANALYSIS
**: NEWEST DATA USED IN REGRESSION ANALYSIS

Storage

Storage coefficients for the UFA (layer 2) were obtained from aquifer tests in the area, are limited in number, and range between 0.00019 and 0.00095 (Table 2). Based on these available data and a review of recent model literature (Bower, 1988), a uniform storage coefficient of 0.0004 was assigned to all of the active model cells in layer 2. Very few storage coefficients for layers 3 and 4 are available. Those existing range from 0.0012 (CH2M Hill, ASR, 1989) to 0.00026 (SFWMD). A sensitivity analysis of this parameter shows very little change in water levels with large changes to the storage coefficient. Since the lithologic and permeability characteristics of this lower Floridan Aquifer section are very similar to those in the Upper Floridan Aquifer section, the same value of 0.0004 was used for storage coefficient for all cells in layers 3 and 4.

Vertical Conductance

Base Layer 1: (Upper Confining Unit)

MODFLOW uses the term Vcont to define the degree of confinement between layers. It is employed in the quasi-three-dimensional modeling approach discussed in the previous section. It is defined for each cell and is the average vertical hydraulic conductivity of the confining unit divided by the thickness of that confining unit. The vertical hydraulic conductivity of the upper confining unit (in this case the Hawthorn) was estimated based on the lithologic composition of the Hawthorn (Driscoll, 1986). A standard vertical hydraulic conductivity of 3.1×10^{-4} ft/day was applied regionally throughout the model. The upper confining unit ranges from 250 to 800 feet thick in the study area; thickness was estimated using lithologic and geophysical data compiled for this project (see Appendix A). Values of thickness for each cell were determined using a kriging interpolation technique. The range of leakance values used was from 7.7×10^{-2} to 3.8×10^{-7} per day.

Base Layer 2: (Middle Semi-Confining Unit)

Three values of leakance were obtained in the study area via aquifer performance tests. The APT leakance results are similar and far enough apart areally to justify a regional assumption of leakance. The values range between 0.05/day to 0.001/day. Most of the more reliable data report leakance values of 0.04/day to 0.05/day. Paucity of data for both vertical hydraulic conductivity and thickness of this confining unit necessitated the broad application of a vcont (leakance) value of 0.04/day over the entire model area with the exception of the coastal area.

Vcont was reduced three orders of magnitude from the St. Lucie-Indian River County border south to Martin County, and east of the Intracoastal Waterway along the structural anomaly shown in Figure 20. Structural and lithologic data support a plausible fault or downwarping hinged on this boundary. Hydrographs of the two available monitor wells on the St. Lucie barrier island suggest very low overall leakage rates and are successfully brought into calibration using this method.

Base Layer 3:

No direct Vcont (leakance) data is available for the base of layer 3. One value was used regionally determined through sensitivity analysis. The thickness of this confining interval is approximately 250 feet at SLF-74 and the Okeechobee ASR well. The value of Vcont applied regionally is 0.00032/day. The approximate value of vertical hydraulic conductivity for the above wells where thickness is defined at 250 feet is 0.08 ft/day.

Base Layer 4:

MODFLOW does not require a Vcont term for the base of the lowest layer. It is implicit that there is no flow at this boundary.

GROUND WATER USE

Upper Floridan Aquifer water use estimates for the model were determined using data from individual water use permits issued by the District coupled with the results of a comprehensive questionnaire issued to permit holders in the UECPA. Individual water use permits are required by the District if the average daily water withdrawals equals or exceeds 100,000 gallons per day (gpd). The District also issues general water use permits to all uses less than 100,000 gallons per day. The only exceptions are single family homes, duplexes, and water use strictly for fire-fighting (SFWMD,1985). General water use permits were not included in the determination of water use estimates because few exist for the FAS. By far, the major use of water from the FAS is for agricultural purposes.

A modification to the MODFLOW code was made to enable the program to input three individual well package files. This modification was used to segregate into files three classifications of wells. The classifications used were: agricultural wells within the District boundaries, agricultural wells outside the boundaries and all wells with monthly pumping reports submitted to the SFWMD including public water supplies, agricultural and industrial wells. The wells are indexed in separate files by row and column, each line represents one well and is referenced by permit number.

Agricultural

Agricultural water use accounts for over 99 percent of the permitted FAS ground water use in the UECPA. Figure 22 shows the estimated agricultural water use for each cell in the model. Most agricultural enterprises are involved in citrus production. With a few exceptions, records of water withdrawn generally do not exist for agricultural uses. Therefore, agricultural water use was estimated.

Data on all agricultural water uses from individual water use permits were assembled into several spreadsheets organized by county (Appendix C). Information pertinent to calculating water withdrawals included permit number, well construction data, capacity (natural flow rate in gallons per minute), planar coordinates (location) of the wells, and status (e.g. is well currently existing or proposed). Data for wells in Indian River County were obtained from St. John's River Water Management District and compiled into separate spreadsheets. Other data in the water use spreadsheets include crop type, permitted annual allocation, soil type, irrigation efficiency, total irrigated acres, rain station code, etc. These additional permit data were included to provide flexibility in applying the traditional Blaney-Criddle method for estimating water withdrawals.

Water requirements of various crops generally is estimated by the District using a method described by the U. S. Soil Conservation Service (USDA, 1970). This method uses the modified Blaney-Criddle formula. Factors such as crop type, soil type, air temperature, daylight hours, effective rainfall, and irrigation system efficiency are used to estimate the irrigation requirements of various crops. This method is useful for estimating crop water needs but does not address the source water for these needs. In the study area, surface water systems in the form of major canals and feeder ditches are the dominant irrigation source. Unblended FAS water is highly mineralized and marginally tolerable to citrus.

The tolerance range of citrus trees to chloride levels in irrigation waters varies depending on the tree type (e.g. orange, grapefruit, tangerine, etc.) and the irrigation method. The leaves of the trees are more sensitive to saline irrigation water than their roots are; therefore, methods of irrigation like overhead spray require water with lower chloride concentrations than a method like drip or flood. The tolerance range for the average citrus tree type for three common irrigation methods employed in the UECPA are listed in Table 4 (Calvert, 1982). Chloride concentrations in waters from FAS wells range between 300 milligrams per liter (mg/l) to 3,000 mg/l and average 900 mg/l throughout the UECPA. It was found that in areas where surface water supply is available (close to major canals,etc.), existing FAS wells are only occasionally used during the normal growing season.

To address the FAS utilization issue, a questionnaire was developed and distributed to the majority of permit holders in the UECPA (Appendix F). Agricultural water withdrawals were estimated using the results of this questionnaire. They were distributed to 360 agricultural permit holders in the study area. A comprehensive series of questions about FAS water use was included in the survey. Among other things, the questions were designed to allow quantitative analysis of the water withdrawn for the 1989 to 1990 time period as well as "average year" patterns. Part of the questionnaire asked for the amount of time FAS wells were allowed to flow freely during each month of the calibration period (May 1989 to March 1991). Responses to 130 questionnaires, 36 percent of those delivered, were entered into a database software program (DBASE). The program was used to calculate the <u>average hours</u> Floridan aquifer wells were allowed to flow freely

Table 4. Citrus Chloride Tolerance Levels for Common Irrigation Methods (Calvert, 1982)

Irrigation Method	Chloride Concentration Tolerance Level (ppm)
Overhead Sprinkler	800 to 1,000
Drip	1,500 to 2,000
Flood	<2,000

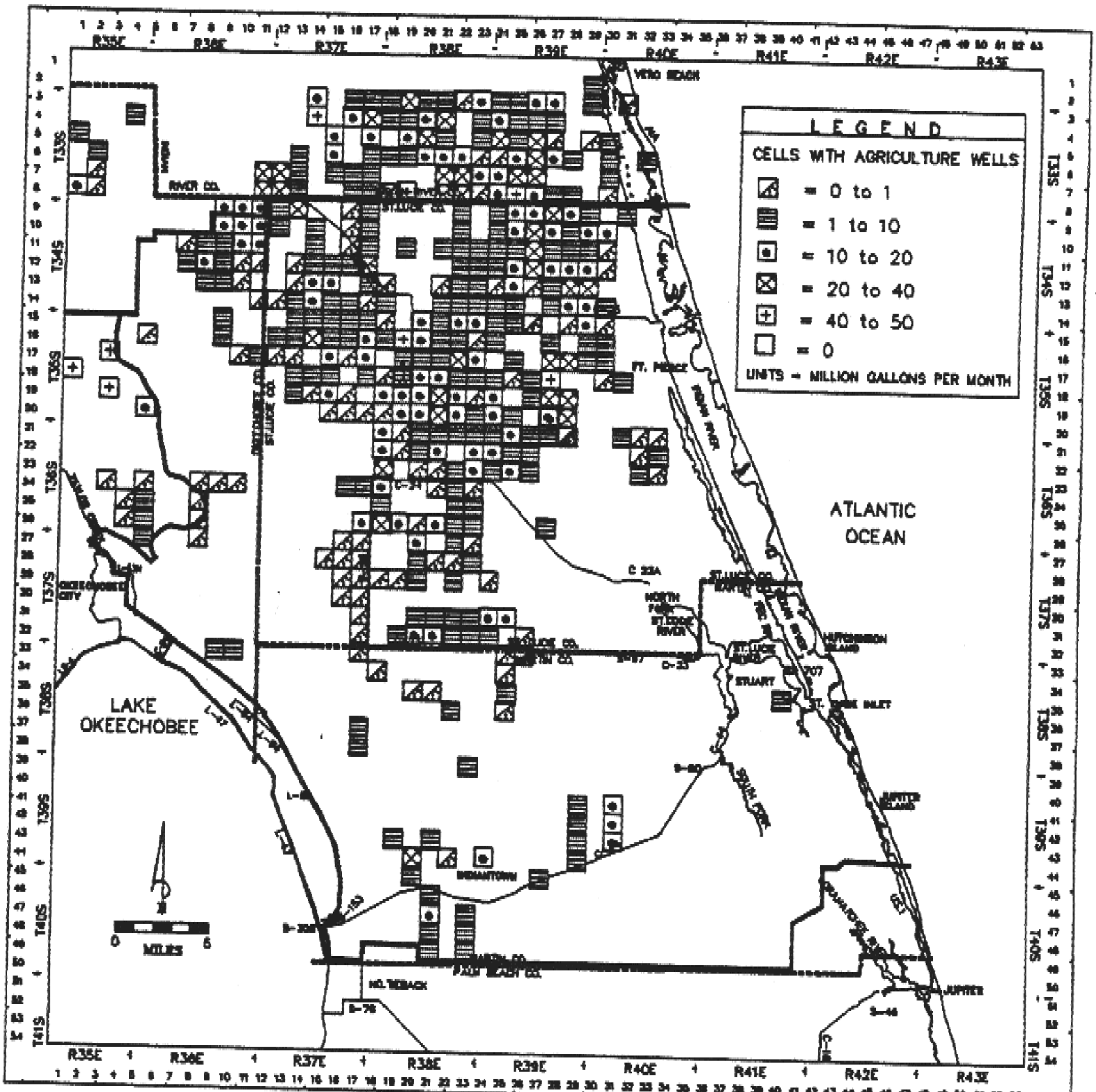

FIGURE 22: Estimated Agricultural Water Use for March 1990 Used in Steady State Model

during each month of the model simulation. The results are listed in Table 5.

The assumption made in the water use calculations was that the hours a well is open and flowing in any one month (hrs/month), multiplied by that well's capacity (gals/hr.), will equal the water volume withdrawn for that well in that month (gals/month). The capacity of each well was taken from the permits where available, or was estimated based on well diameter (Trost, unpublished). A program was developed to perform the above calculations for each permitted FAS well in the study area. The months of June 1990 through March 1991 were not included on the questionnaire; therefore, the previous years' monthly averages were used in the calculations. Fortunately, precipitation was very similar in these months for 1990 and 1991, so water use was likely very similar.

In cases where no questionnaire response was received for a specific permit, withdrawals were calculated using the average hours outlined above. For those permits where a response was received, the hours per month response was used directly to calculate withdrawals.

In some circumstances, agricultural pumpage reports are submitted to the District on a monthly basis (Appendix B). Those reports were updated using phone contacts and are represented in a separate model file. In all cases, each line (well) includes the permit number for reference. The agricultural pumpage reports and public water supply wells are combined into this file.

Public Water Supply Wells

FAS water is rarely used for public water supply due to its high chloride content. The exceptions are reverse osmosis (R.O.) water purifying facilities on Hutchinson Island, R.O. facilities in southern Indian River County, a Fort Pierce Utilities FAS blending well, and Jupiter R.O. wells. Monthly pumpage from the above wells was obtained either from DER operating reports or verbally from utility operators (Appendix B). The locations of cells with public water supply wells and their total discharge in March 1990 is shown in Figure 23. In cases where there were multiple wells per facility, utility personnel were contacted to obtain a breakdown of water withdrawn per well. All verbal and written contacts were documented in spreadsheet form. The public water supply wells are represented in the same file as mentioned above.

Industrial Uses

One industrial water use of the FAS was found in the study area: Caulkins Fruit Processing Plant near Indiantown, Martin County. Water withdrawal volumes were obtained verbally from the plant operator. This well also appears in the same model file mentioned above.

TABLE 5: AVERAGE HOURS FLORIDAN AQUIFER SYSTEM AGRICULTURAL WELLS USED PER MONTH FROM 1990 SURVEY (HOURS LEFT FLOWING NATURALLY PER MONTH)

YEAR	MONTH	HOURS
1989	January	71
	February	84
	March	107
	April	132
	May	135
	June	59
	July	45
	August	37
	September	42
	October	51
	November	76
	December	100
1990	January	79
	February	83
	March	130
	April	158
	May	165

Note: Date of Questionnaire, May 1990.

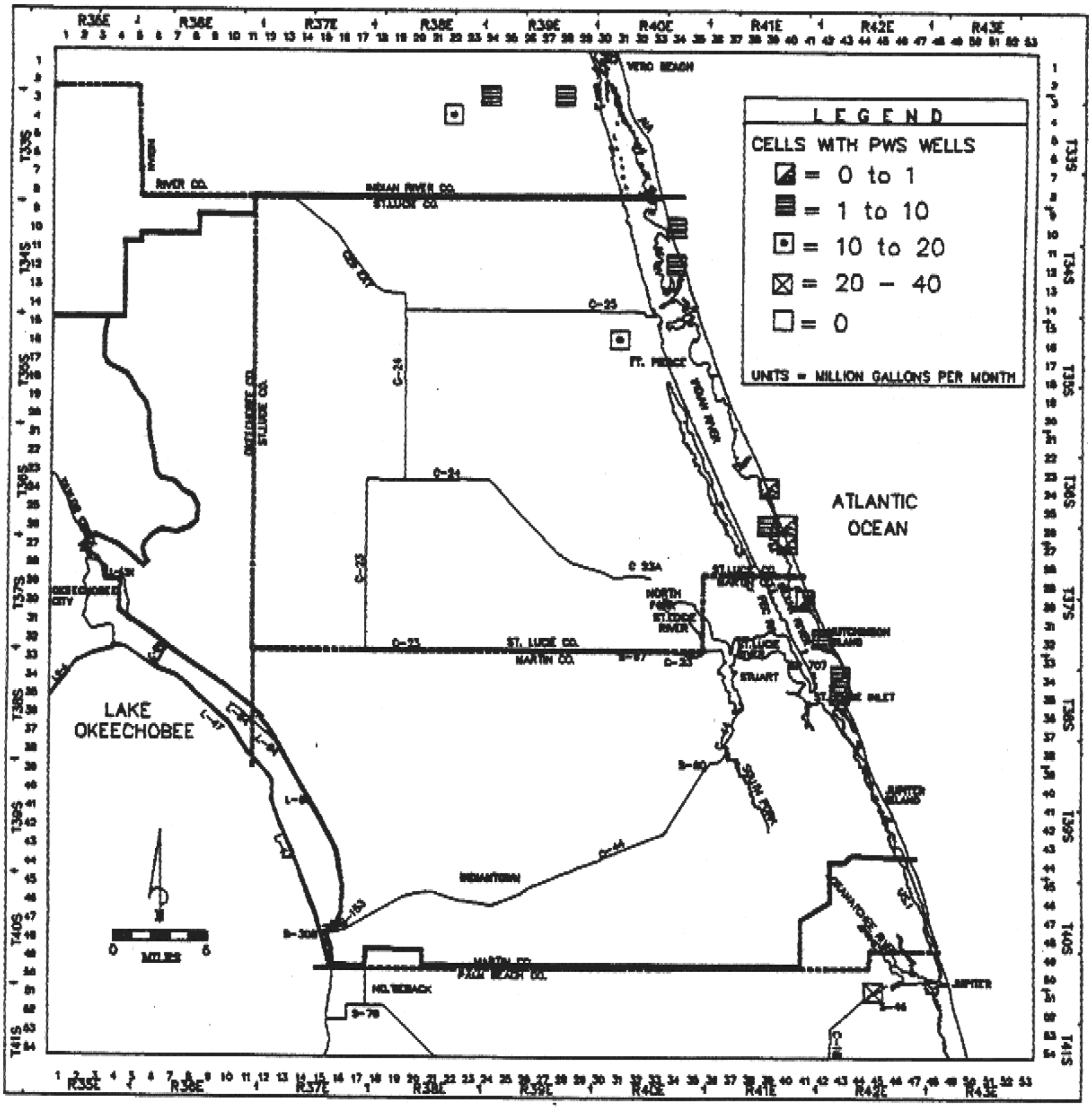

FIGURE 23: Public Water Supply Use for March 1990 Used in Steady State Model

CALIBRATION

The UECPA model was calibrated to both steady state and transient conditions. Layer 2 is the only calibrated layer in this model; it represents the Upper Floridan Aquifer. Wells providing temporal head data in the lower layers were non-existent in the study area; therefore, calibration of those layers was not possible. Locations of observation wells used in the calibration process are shown in Figure 24. The calibration period was May 1989 through March 1991, an interval of 23 months. It was chosen to correspond with the period that monthly UFA water levels were collected by the District. UFA water levels have been collected semi-annually by the District since 1979 as part of a cooperative program with the USGS. During the period between September 1989 and August 1991, the frequency of data collection was increased to monthly, and the number of wells on the monitor well network was increased to 54 specifically for this study. The last five months of the data collection period (April to August 1991) were not used in this model but may be incorporated into future versions. All monitor wells in the network were surveyed by District personnel. Each well's elevation, referenced to NGVD datum, was obtained and used for all head calculations in the model. A multi-year period was chosen so that the effect of annual variations in irrigation practices could be seen.

STEADY STATE CALIBRATION

Methods

Steady state is a theoretical condition which defines the aquifer system in a state of equilibrium. In other words, given the average water budget (inflows and outflows) of the aquifer and given enough time for water levels to stabilize, a definable water level will be attained. Heads computed by the steady state model should emulate that theoretical water level.

The theoretical steady state water level is not a physical property measurable in the field. Rather, it is based on an educated guess of what that equilibrium level should be. Measuring the degree of calibration of the steady state model, therefore, is not an exact science and is assessed by comparing how close the model comes to computing a hypothetical steady state water level based on speculative average budget conditions.

The goal was to simulate steady state water levels representing the average month in a year. Therefore, average month conditions were input into the model. Those conditions included well withdrawals and boundary fluxes. Hydrographs of FAS wells in the study area demonstrate water level fluctuations ranging from as little as one foot to as high as eight feet between the ends of wet (September) and dry seasons (May). The larger fluctuations are found in areas of high well densities. The average observed water levels for the majority of UFA wells occur in the month of March. Therefore, March 1990 levels were assumed to approximate steady state levels under average annual conditions. March 1990 stresses and fluxes were implemented as inputs to the steady state model. The resultant computed heads were compared to March 1990 observed water levels. A well was considered calibrated if the difference between computed levels and March 1990 observed levels fell within the minimum to maximum annual water level range for that well. Figure 25 illustrates the difference between the simulated steady state levels and the March 1990 levels.

The steady state and transient models were calibrated interactively. Changes made to one were incorporated into the other. Initial steady state runs served to make the first adjustments to the model parameters. Transient calibration runs were then made and aquifer parameters as well as pumping estimates were refined. These refinements then were applied back into the steady state model. This iterative process was repeated until both models were satisfactorily calibrated.

Results

Layer 2 (Upper Floridan Aquifer)

Figure 26 shows the simulated head distributions within layer 2 (Upper Floridan Aquifer) for March 1990 conditions. All wells fell within the calibration tolerance range. Meeting that criteria was somewhat difficult in one area of the model in particular, which extends from north central St. Lucie County north into south central Indian River County. This area was considered a problem because it displayed the largest difference between computed and March 1990 observed heads. The difference was between 5 to 8 feet and can be seen in Figure 27. This area has a high density of FAS wells, which combined withdrew several million gallons per day in March. Observation wells in this area include SLF-3, SLF-70 and IR-312. Minimum and maximum annual water levels range 6.5, 6, and 8 feet respectively in these wells. Satisfactory calibration was attained but just within the range.

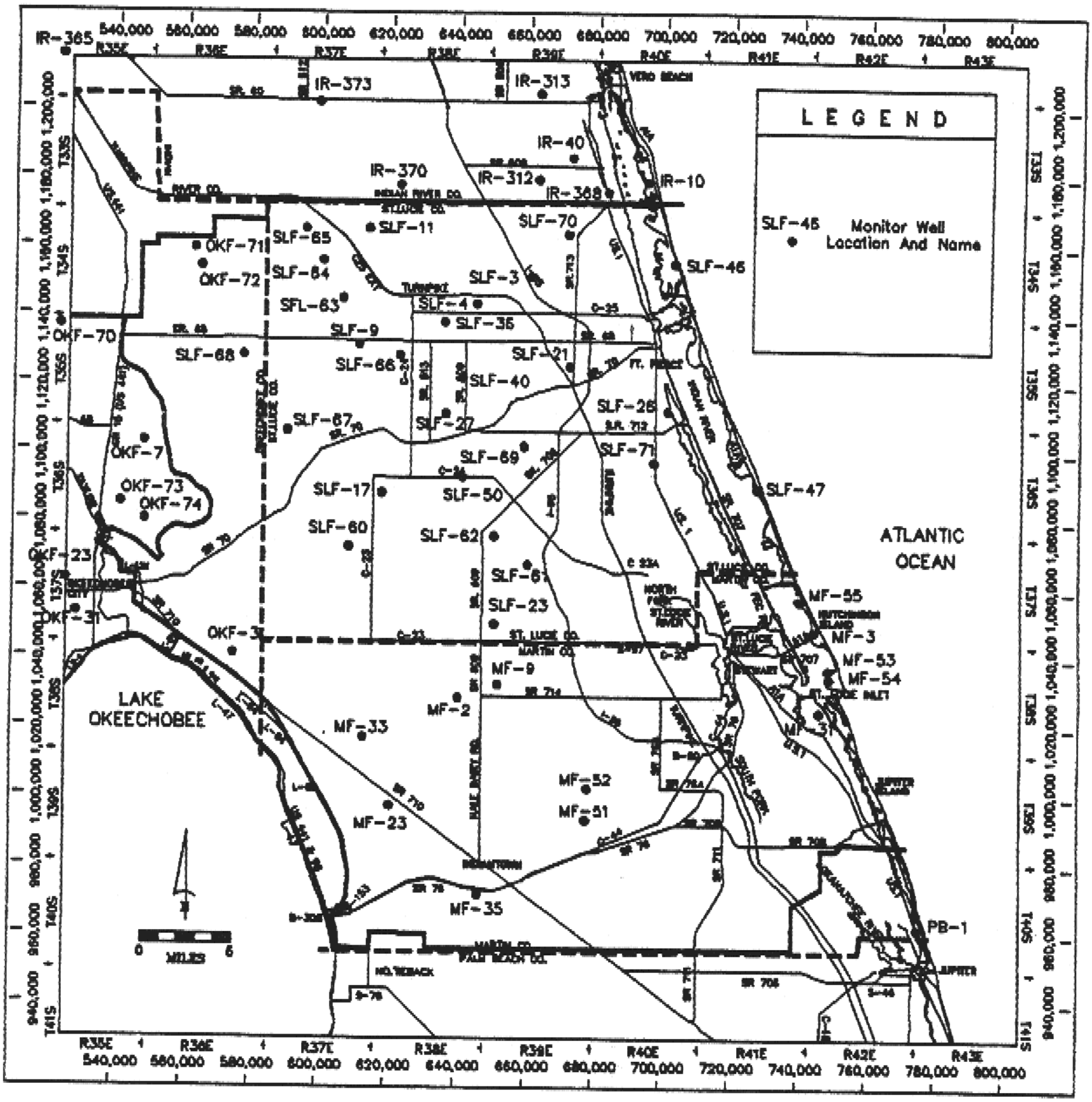

FIGURE 24: Location of Monitoring Wells Used to Verify Modeled Water Levels

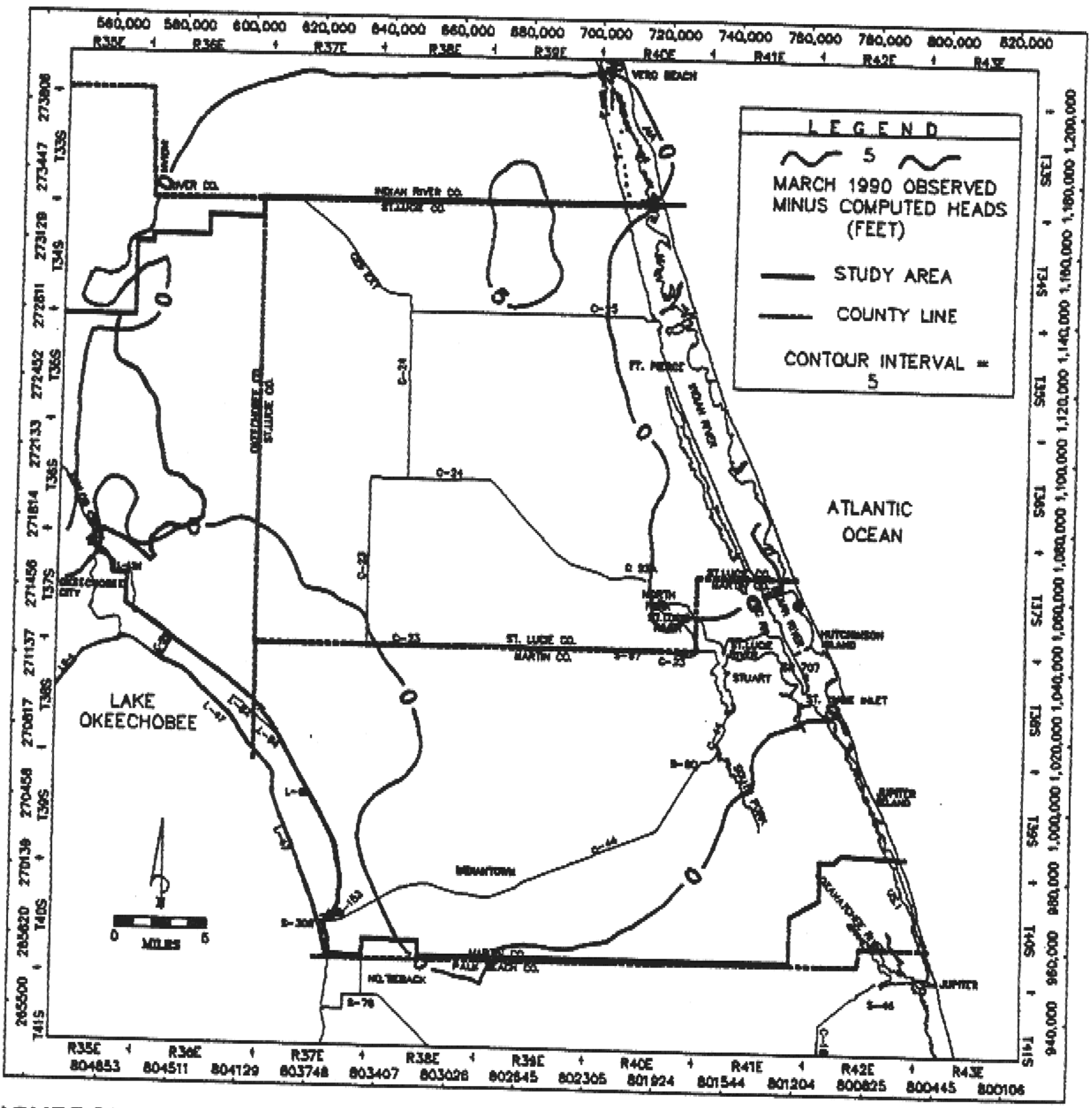

FIGURE 25: March 1990 Observed Minus Steady State Computed Water Levels, Layer 2

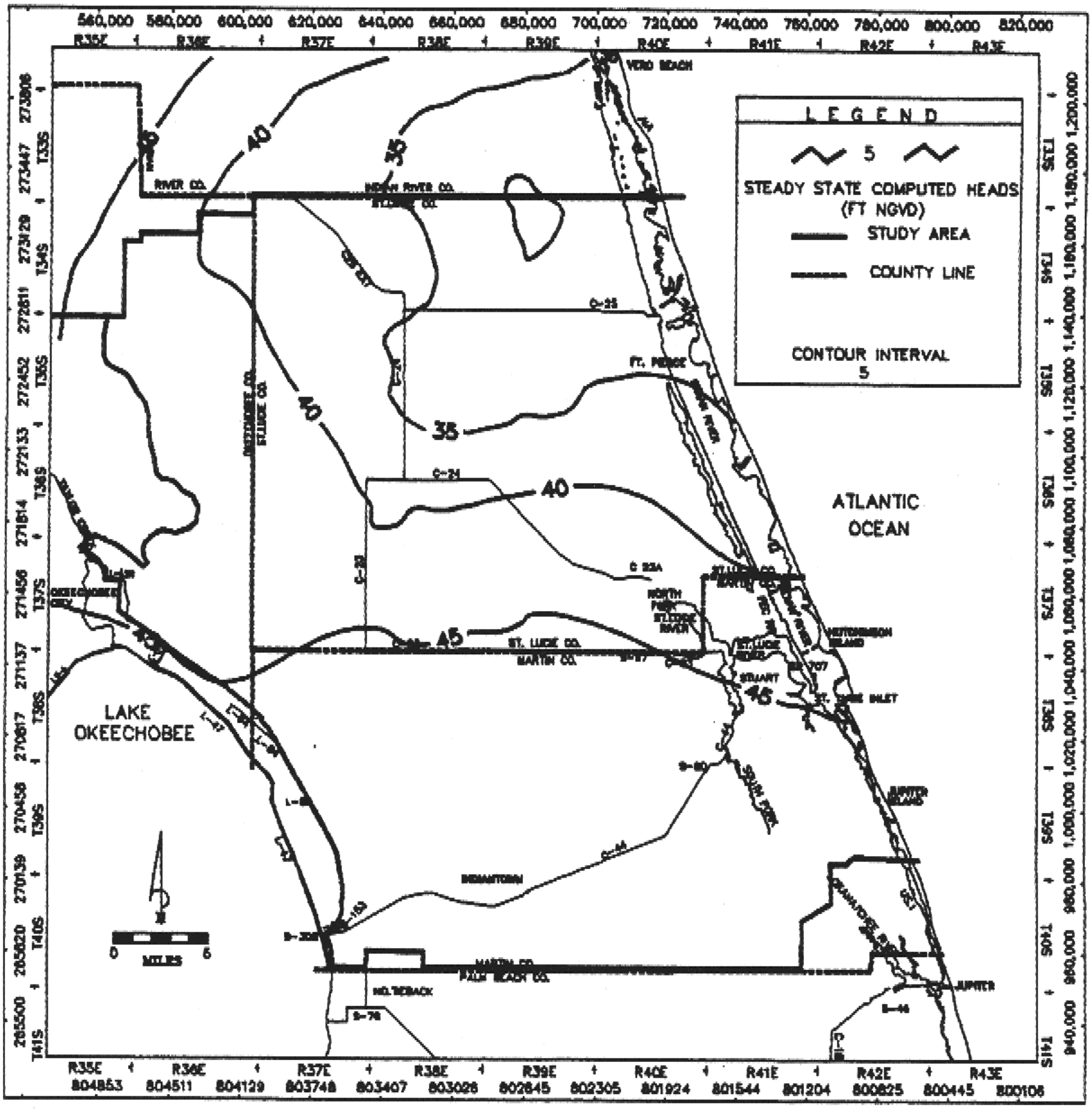

FIGURE 26: Simulated Steady State Computed Water Levels, Layer 2

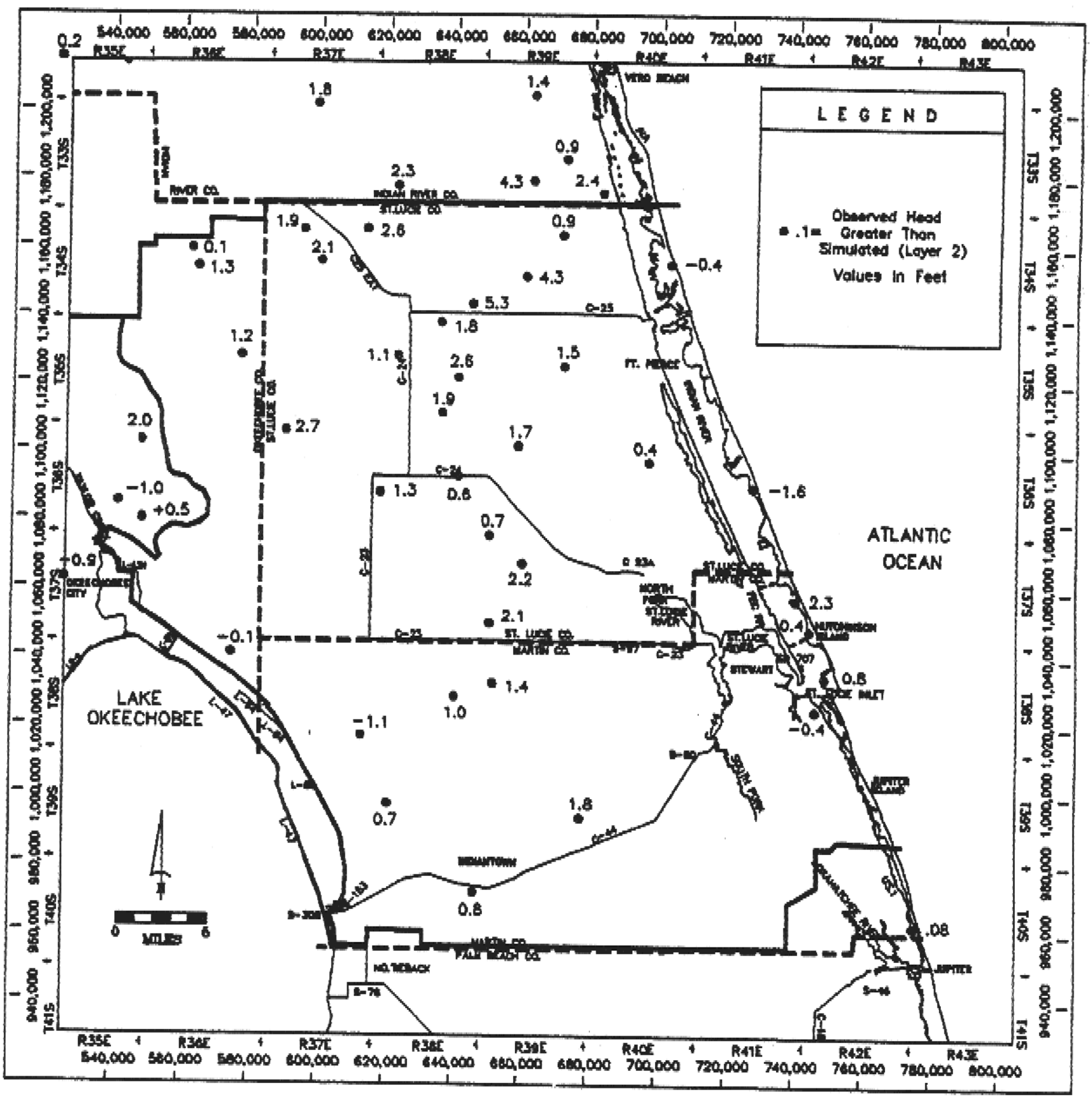

FIGURE 27: March 1990 Observed Water Levels Minus Simulated Steady State Water Levels, Layer 2 (Upper Floridan Aquifer)

defined. In all other model areas, the difference between computed and March levels was much closer and easily met the calibration criteria.

Figure 28 shows the direction and magnitude of simulated horizontal flow in the Upper Floridan Aquifer. Each arrow represents the direction and magnitude of flow from an individual cell. The horizontal flow arrows generally point toward areas of intensive ground water use. The largest and most numerous flow vectors are in west central and north central St. Lucie County. These two dense clusters point toward two areas of intense water use from the FAS. Large clusters of flow vectors are also seen in all the north central and western portions of Indian River County. Figure 29 is a representation of the vertical flow vectors between layer 1 and layer 2. Downward flow from layer 1 to layer 2 is seen in the Highlands area of Okeechobee County where water levels of the SAS are higher than the FAS because of the high ground level elevation. Upward flow is generally the rule since water levels are higher in the FAS than in the SAS over the rest of the study area. Figure 30 illustrates the simulated vertical flow vectors between layer 2 and layer 3. It can be seen that most vectors are upward and the largest flow vectors are associated with areas of intense well discharges.

Figure 31 illustrates the volumetric budget in layer 2 for steady state conditions. Approximately 91.1% or 140 million gallons per day (MGD) of the total inflow to this layer is recharge from the LFAPZ1 (layer 3), 8.7% (13.4 MGD) is from the general head cells, and 0.2% (0.25 MGD) is from downward leakage from the Surficial Aquifer System (layer 1). The flow from the general head (specified flux) cells represents flow into the modeled area from Okeechobee and Indian River counties. Of the total outflows, 4.8% (7.4 MGD) is downward leakage to layer 3 (LFAPZ1), 4.5% (6.6 MGD) is upward leakance to the Surficial Aquifer (layer 1), .01% (1.5 MGD) is to general head cells, 53.3% (81.8 MGD) is to agricultural wells in the UECPA, 27.2% (41.7 MGD) is to wells in Indian River County, 9.4% (14.5 MGD) is to all other wells whose pumpage is reported. Generally, water supply pumpage is balanced by upward leakage from lower parts of the FAS. Outflow to the general head cells represents horizontal flow out of the modeled area, mainly to northeastern Indian River County and to a limited degree to the ocean.

<u>Layer 3 (Lower Floridan Aquifer Producing Zone 1)</u>

Figure 32 shows the water levels within layer 3 (LFAPZ1) for March 1990 conditions. Layer 3 observed minus steady state computed heads is shown in Figure 33; they range between 0 and 9 feet with the highest drawdowns in areas with intense agricultural water withdrawals from layer 2 (UFA). Figure 34 shows the magnitude and direction of simulated horizontal flow in layer 3 (LFAPZ1). It can be seen that the vectors are similar to those in layer 2. The larger clusters point in the direction of intensive water use from layer 2. Although there is negligible pumping from layer 3, water in layer 3 flows in response to pumping from layer 2 (the UFA). The vertical flow representing leakage between layers 3 and 4 can be seen in Figure 35. Most of the flow is upward providing recharge to layer 3. Large upward flows are seen in areas of intensive withdrawals from layer 2.

The volumetric budget for layer 3 is illustrated in Figure 36. The majority of inflow, 82.8% (134.8 MGD) is upward leakance from the LFAPZ2, 12.7% (20.6 MGD) comes from general head cells, 4.5% (7.4 MGD) comes in from layer 2 (UFAS). The flow from the general head cells represent flow into the modeled area from Okeechobee and Indian River counties. Total outflow consists of 85.9% (139.9 MGD) to upward leakage, 13.1% (21.3 MGD) to downward leakage, 0.01% (1.5 MGD) to general head cells. The outflow to general head cells represents flow out of the modeled area into northeastern Indian River County and partially to the ocean.

Figure 37 shows the combined volumetric budget for the entire model. Total inflow consists of 79.7% (4.12 billion gallons per day (BGD)) from constant head cells, 20.3% (1.0 BGD) from general head cells. Constant head sources are either layer 4 (LFAPZ2) or the north and west boundaries of layer 4. Total outflow consists of 16.6% (851.7 MGD) to constant head cells, 1.9% (100.1 MGD) to general head cells, 48.3% (2.5 BGD) to UECPA agricultural wells, 24.6% (1.3 BGD) to Indian River wells, 8.6% (446.4 MGD) to other reported well pumping including public water supplies. The outflow through the constant head cells represents movement out of the northeastern boundary of layer 4 (LFAPZ2) boundaries, layer 4 itself, and to a smaller extent layer 1 (SAS).

TRANSIENT CALIBRATION

Methods

The transient model differs from the steady state in that several time periods (stress periods) representing months are simulated. The model calculates heads for each stress period of the simulation based on defined boundary conditions and stresses for each month simulated in the model. The transient model comprised 23 stress periods

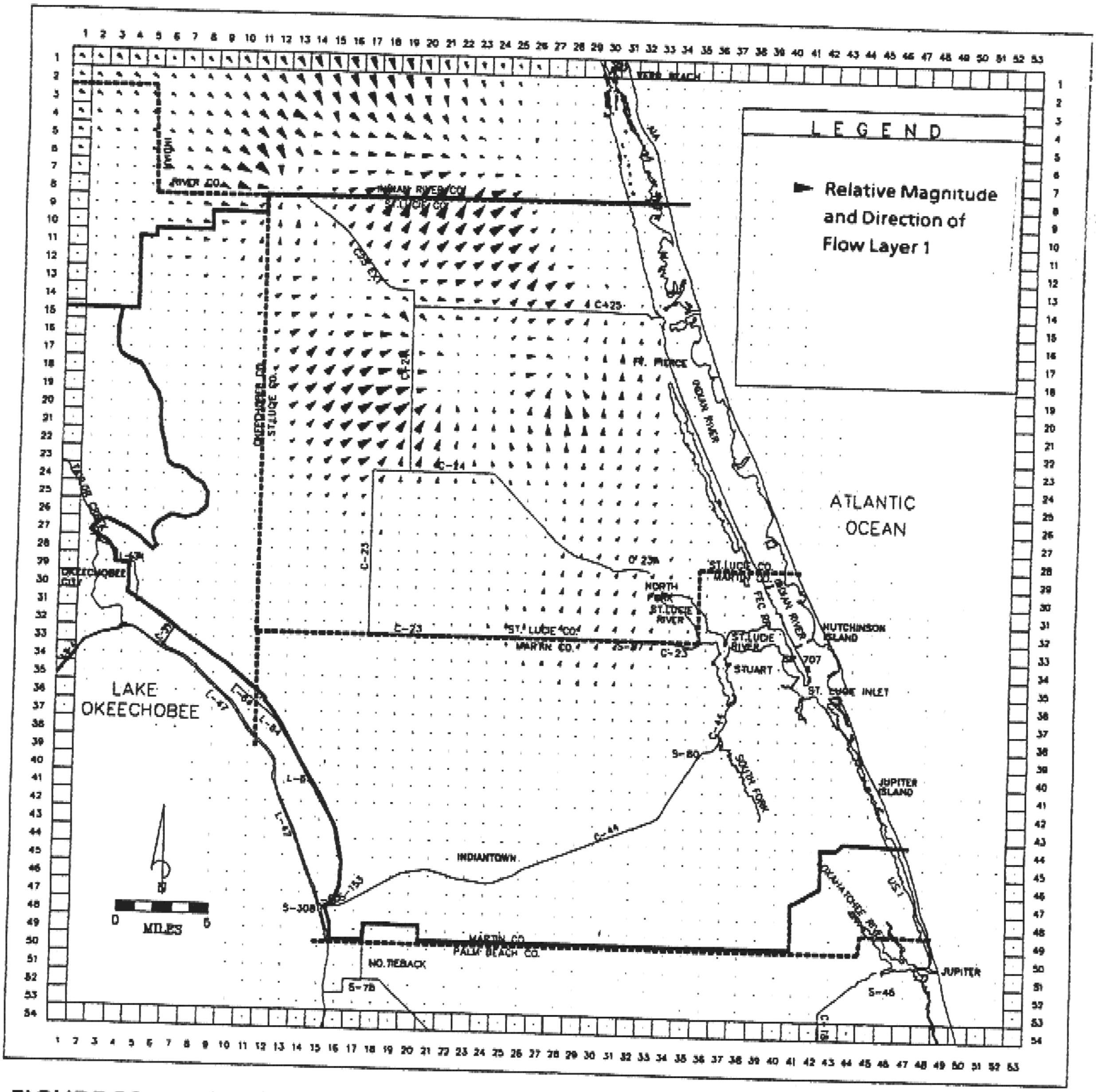

FIGURE 28: Simulated Steady State Horizontal Flow Vectors, Layer 2 (Upper Floridan Aquifer System)

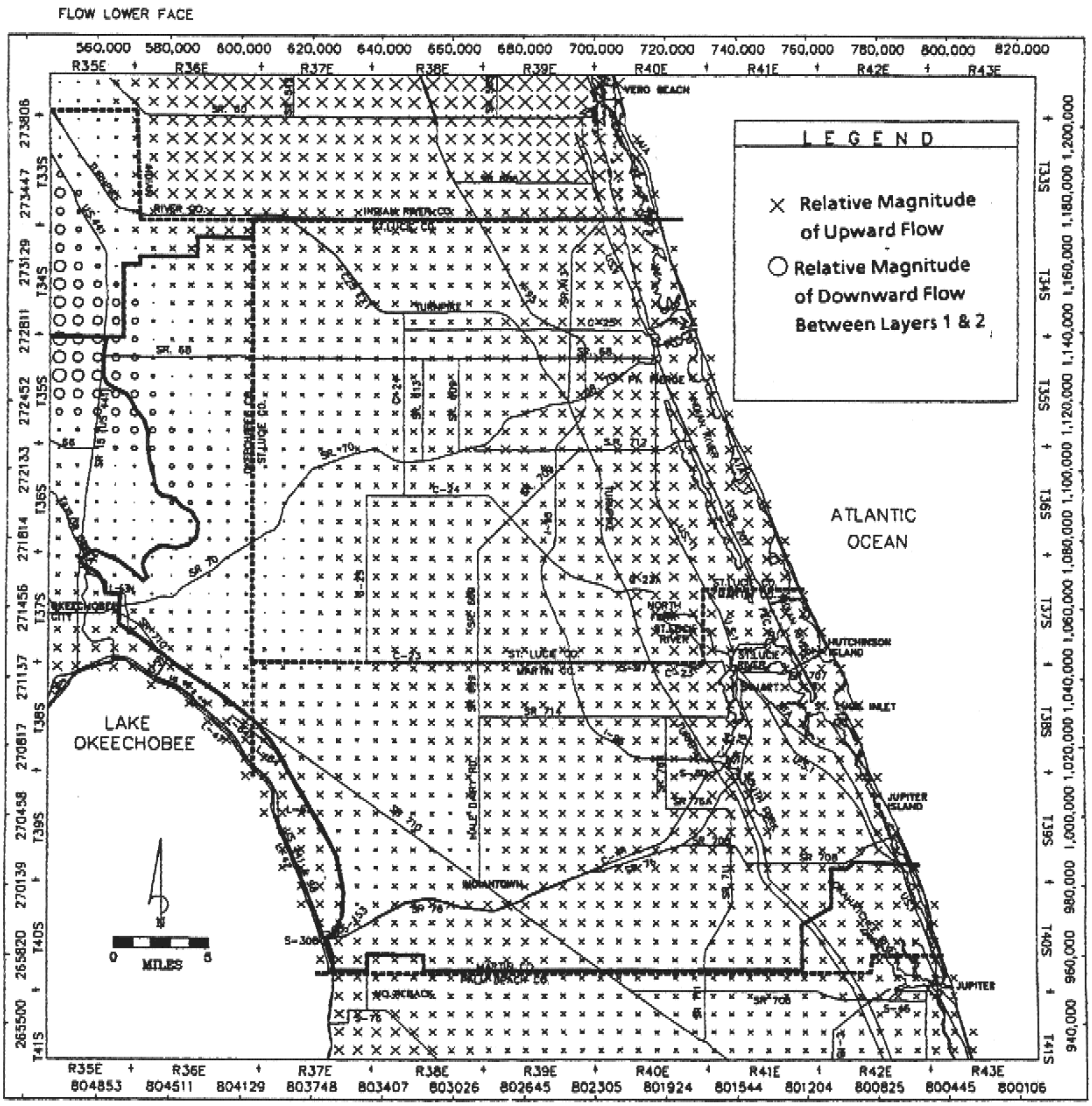

FIGURE 29: Simulated Steady State Vertical Flow Vectors Between Layers 1 and 2

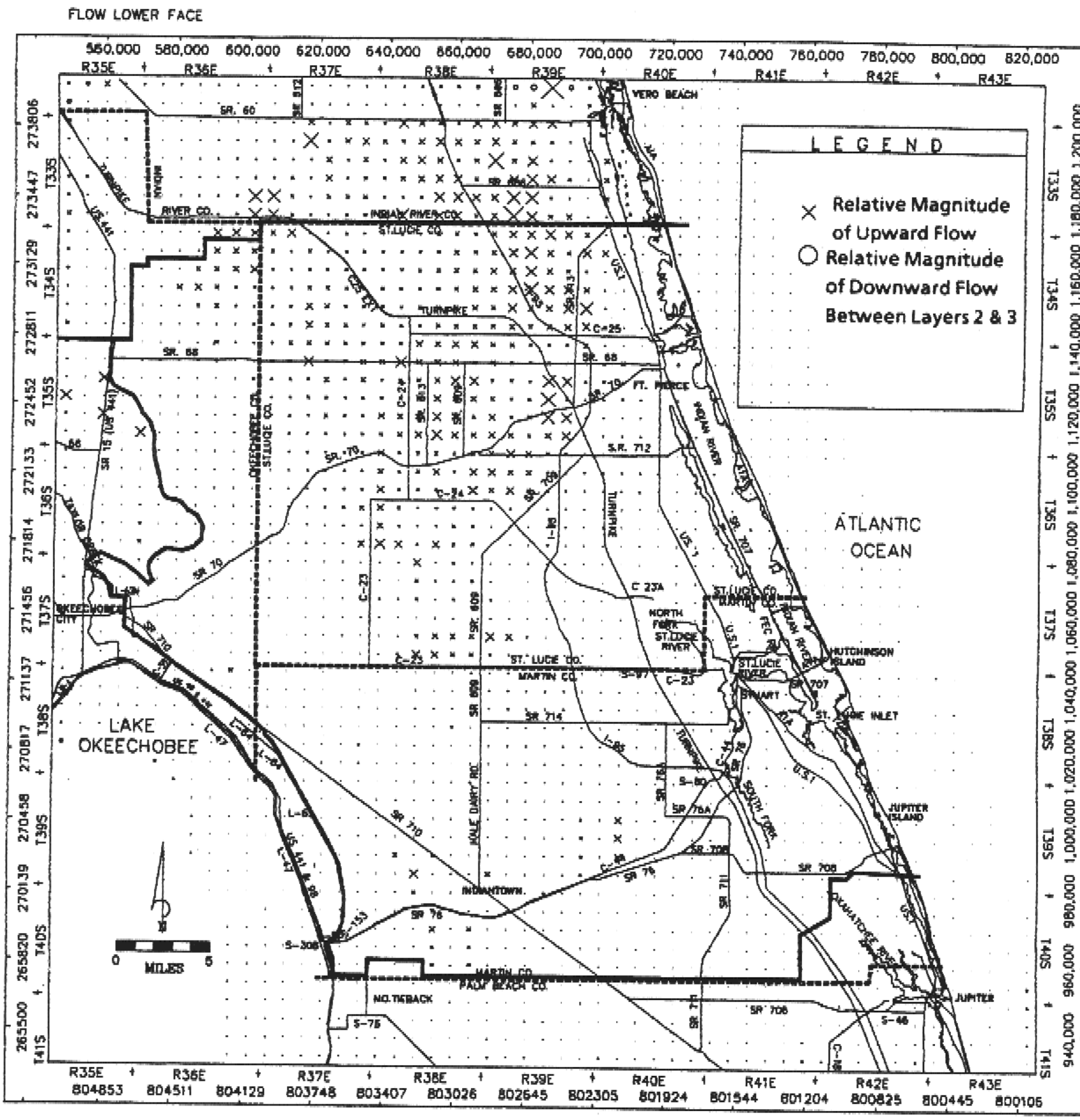

FIGURE 30: Simulated Steady State Vertical Flow Vectors Between Layers 2 and 3

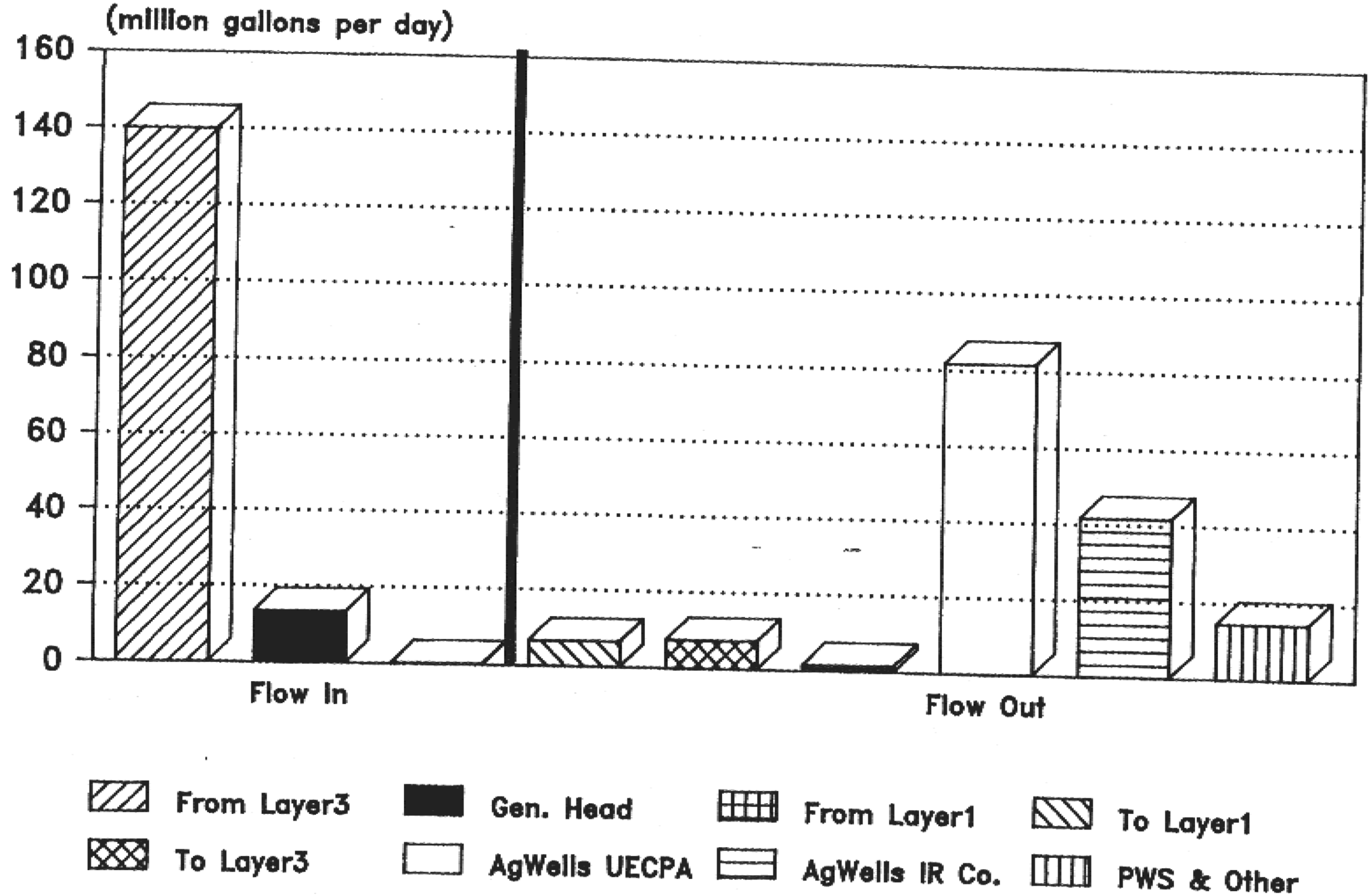

FIGURE 31: Volumetric Budget, Layer 2 (Upper Floridan Aquifer), Steady State Conditions

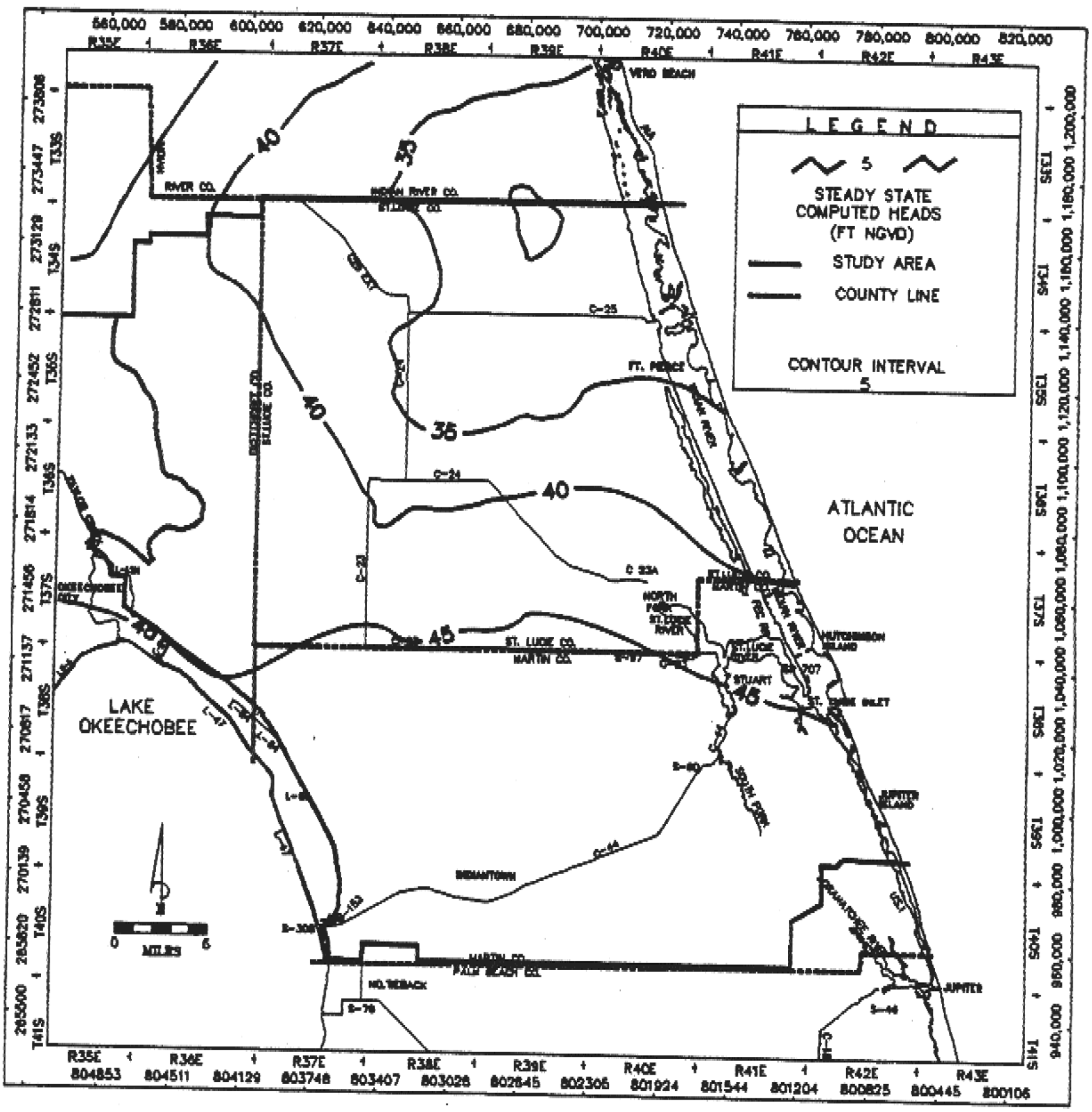

FIGURE 32: Simulated Steady State Water Levels, Layer 3

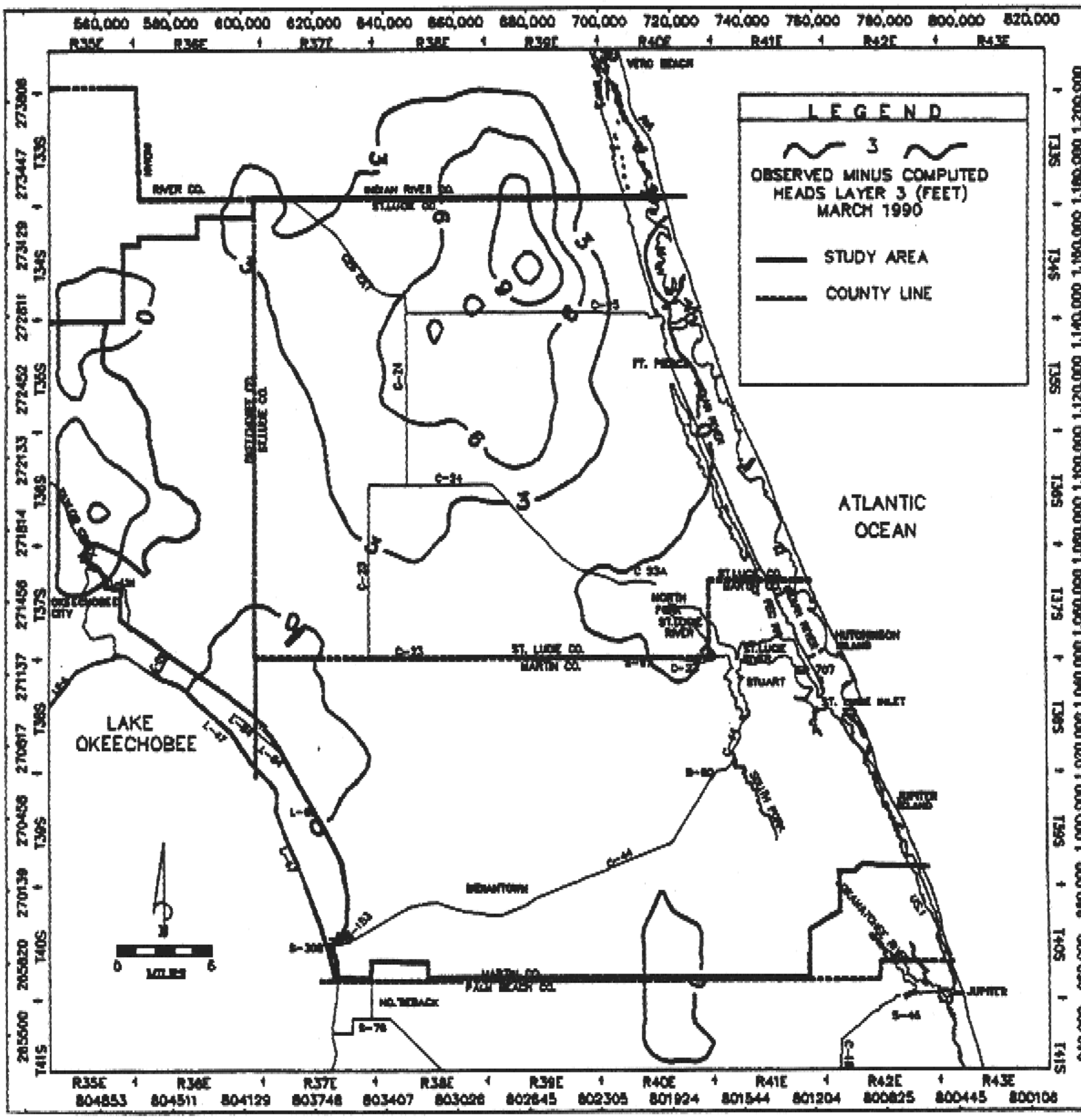

FIGURE 33: March 1990 Observed Minus Steady State Computed Heads, Layer 3

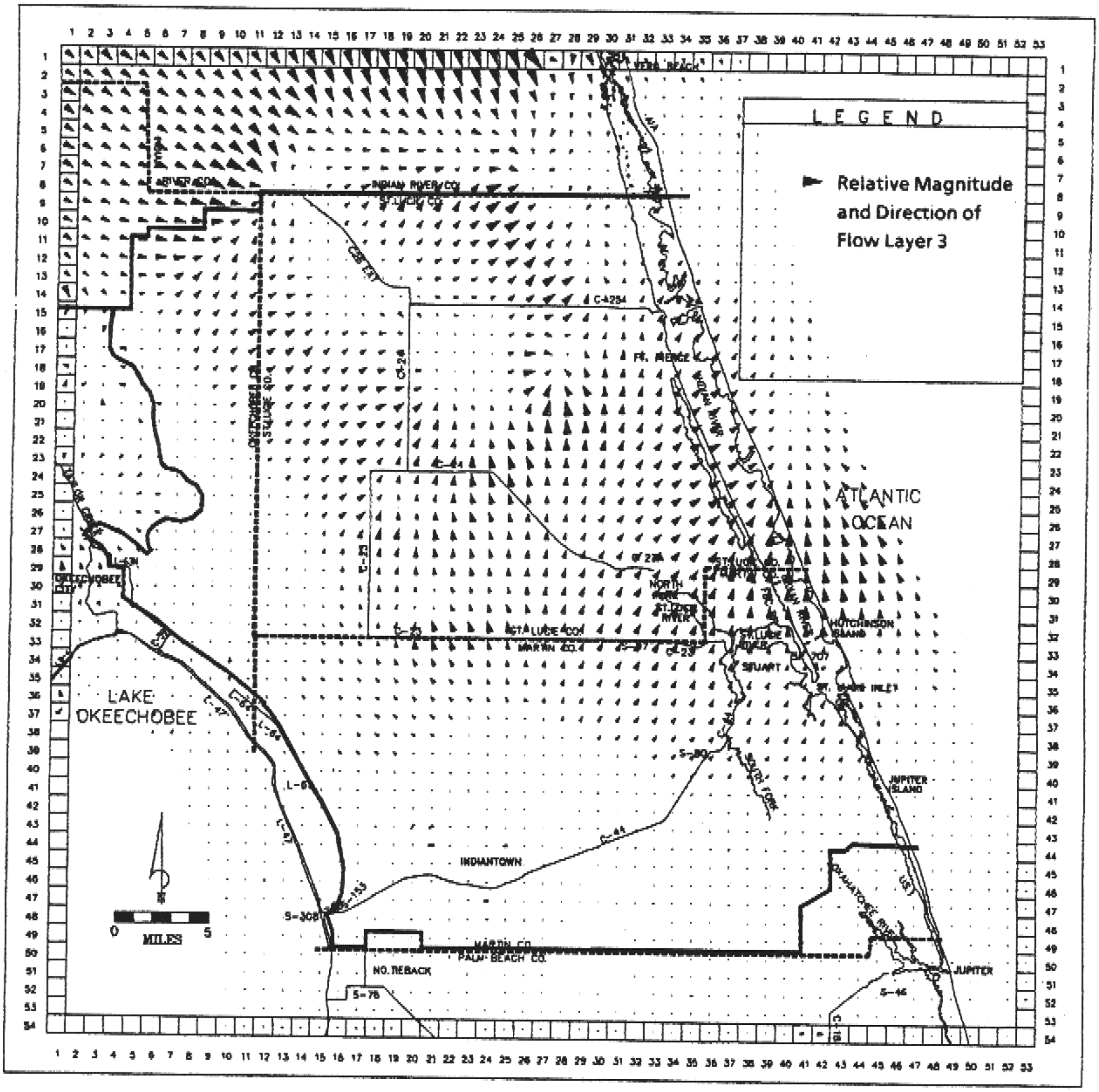

FIGURE 34: Simulated Steady State Horizontal Flow Vectors, Layer 3

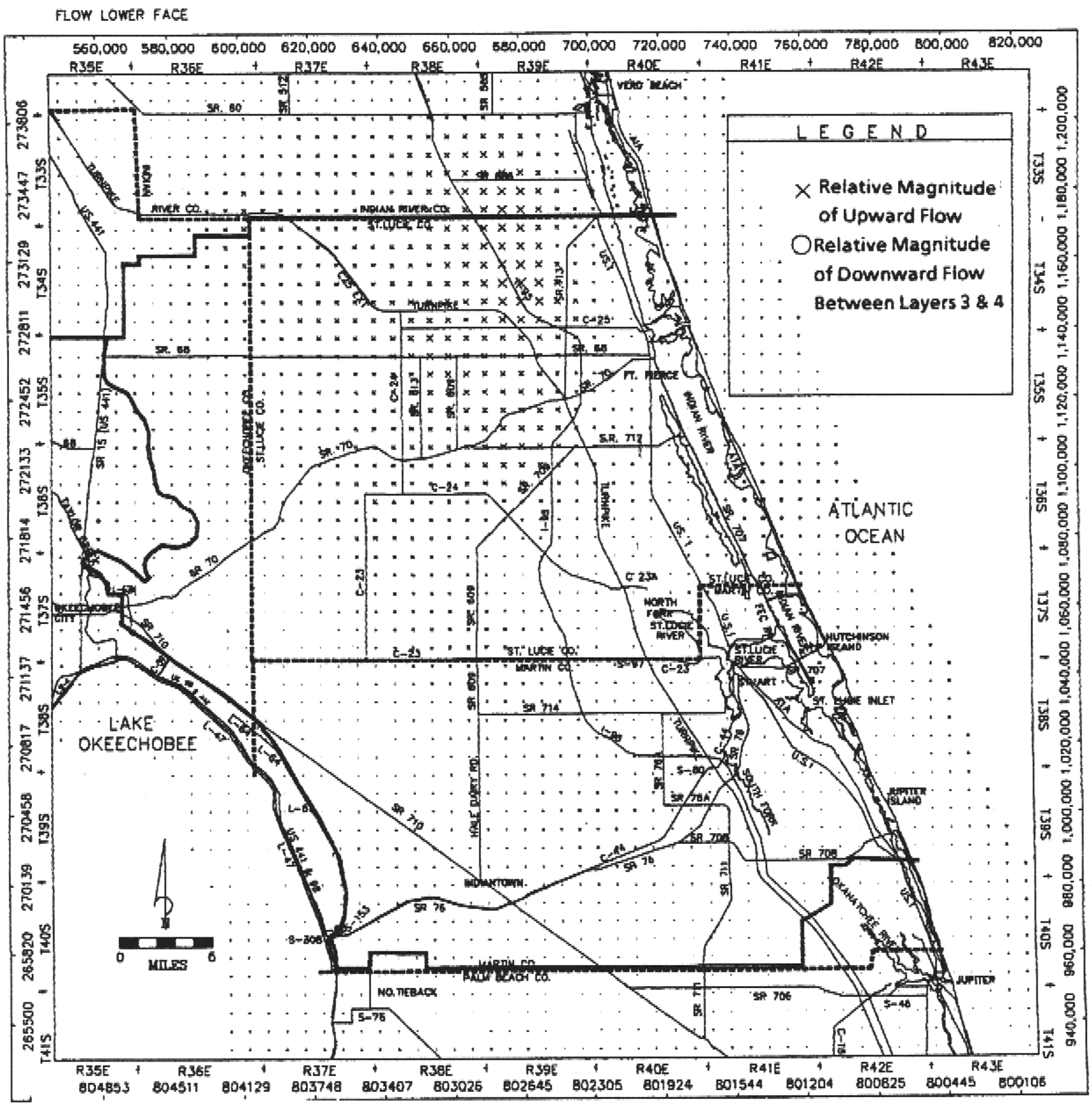

FIGURE 35: Simulated Steady State Vertical Flow Vectors Between Layers 3 and 4

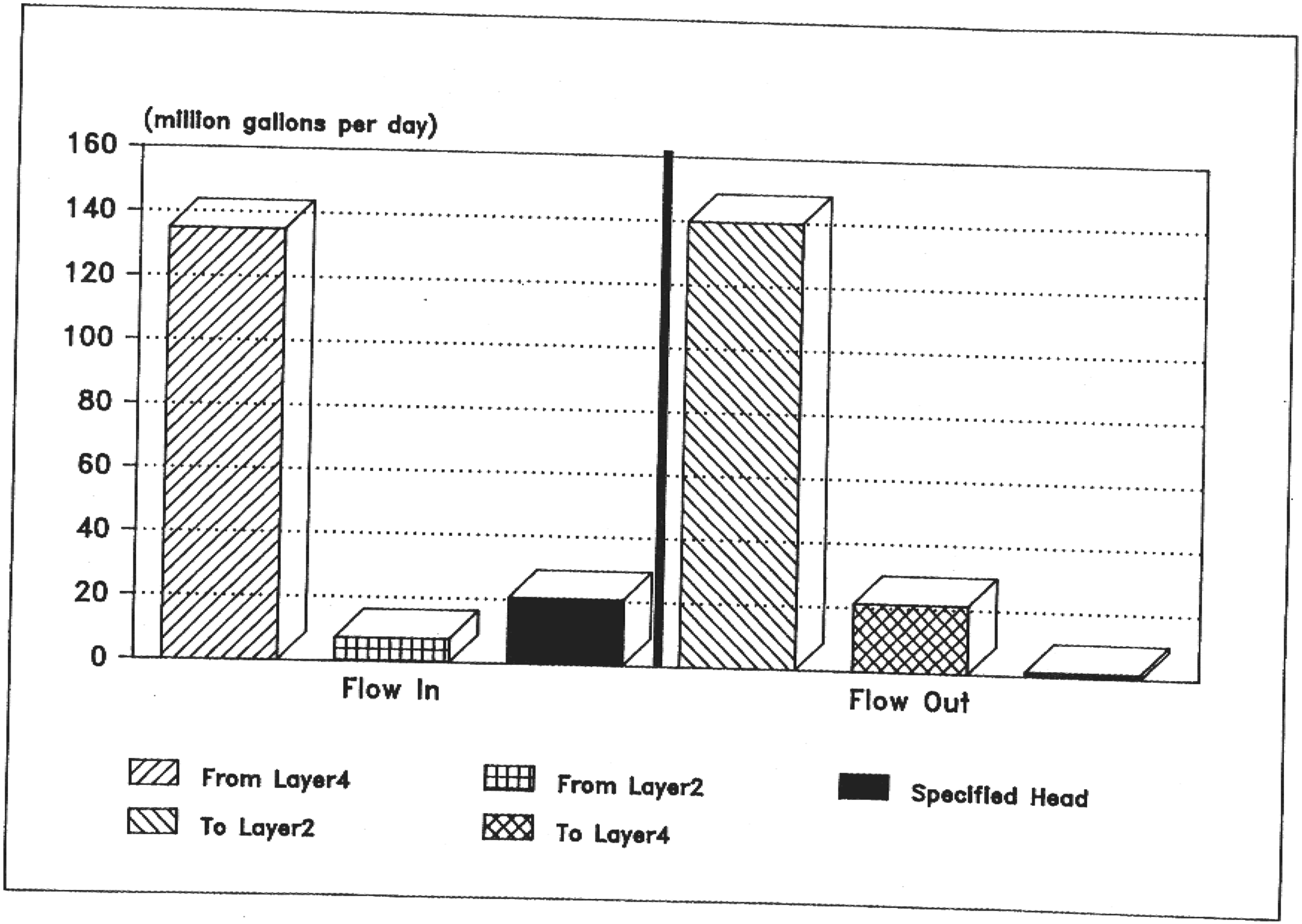

FIGURE 36: Volumetric Budget , Layer 3 (LFAPZ1), Steady State Conditions

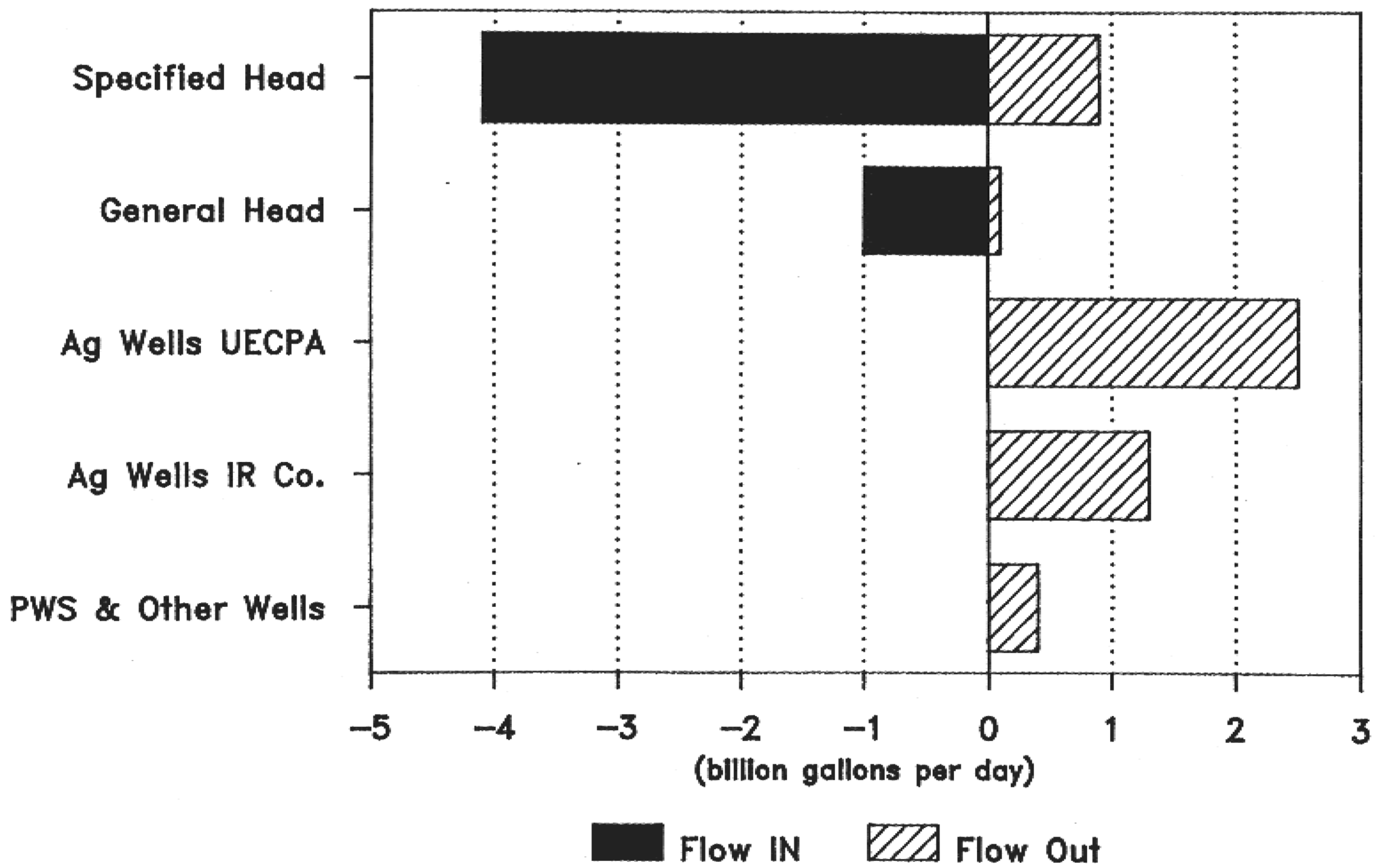

FIGURE 37: Volumetric Budget for Entire Model

representing 23 months. Each stress period contained five time steps. The number of time steps was found to have little effect on final computed head solutions.

Calibration is based on a good match between computed heads for each stress period and monthly water levels observed at monitor wells. Computed and observed heads cannot always match perfectly for reasons which will be addressed later. A tolerance range is typically defined for calibration criteria. In this case, the tolerance range for the average difference between modeled and observed heads averaged over the calibration period was ±4 feet. This range was chosen based on previous studies where ranges from 4 to 5 feet were applied to deeper confined aquifer systems (Bower, 1990; Smith, 1990). The model was considered to be satisfactorily calibrated, within the tolerance range, to all 54 observation wells on the network. The range of observed versus simulated average head differences was between -2.0 and +2.7 feet (Figure 38).

The tolerance range for confined aquifers is generally higher than the range for unconfined for the following reasons:

1. In unconfined aquifers, small changes in water levels reflect potentially large impacts, particularly to wetlands, and
2. The aquifer parameters, especially storativity, of the deeper confined aquifers cause heads within these aquifers to fluctuate more in response to stress when compared to unconfined aquifers.

Comparative hydrographs for observed and simulated water levels were generated for those cells that correspond to the locations of monitor wells (Appendix E). These were used to aid in the interpretation of the numerous model runs. Where a month's data was not available, a value of 20.10 feet was assigned to fill in the data gap. This was necessary due to limitations in the program that generated the plot. Therefore, all 20.10 foot values on the comparison plots should be disregarded.

The agreement of a computed water level with its counterpart observed level can be affected by the following conditions:

1. MODFLOW simulates well withdrawals from a cell as a single stress located at the node, or center of the cell. In reality, the area represented by a cell may contain many pumping wells. This situation is common throughout the UECPA model, due to the large size of the cells. Combining all the well withdrawals located within a cell and locating the total withdrawal at the center of the cell is not a completely accurate simulation. In addition, the computed head in a cell represents the average of all heads within the cell. In reality, the head will vary throughout the area represented by a cell in response to the actual stresses. In areas of higher ground water gradients, such as those caused by intensive well withdrawals, water levels throughout a cell can vary significantly from the average. If a cell contains both a monitor well and intensive well withdrawals, or a monitor well is located in a cell adjacent to a cell or cells containing intense well withdrawals, or if a monitor well is not located near the center of the corresponding cell, the agreement of simulated water levels with observed levels can be affected significantly. This situation is referred to as cell-wide averaging, and occurs at several locations in the UECPA model.
2. The model was run using one month stress periods, and the simulated heads represent end of the month levels. Observed water levels were taken on various days throughout a given month. The discrepancy caused by this situation can be minimized by averaging the difference between observed and simulated heads over the calibration period when comparing the results.

Initially, the model was run with the input data sets as discussed in the Model Description section of this report. Modifications to these data sets necessary to achieve calibration are discussed in the following sections.

Layer 2 (UFA) is the only layer calibrated in this model so most changes were made to the parameters and pumping estimates of this layer. Layer 1 (Surficial Aquifer System) had no effect on layer 2 calibration because the layer 1 Vcont (leakance) term was extremely small. Confidence in layer 1 Vcont is relatively high since the thickness and impermeable nature of the Hawthorn confining unit is well known. The SAS was modeled as a separate layer primarily to see the amount of recharge it received from the UFA. That volume was determined in the steady state run volumetric budget and is approximately 6 million gallons per day.

The adjustments to the model were made in three ways listed in order of importance:

1. Vertical conductance (Vcont) of layer 2 and layer 3

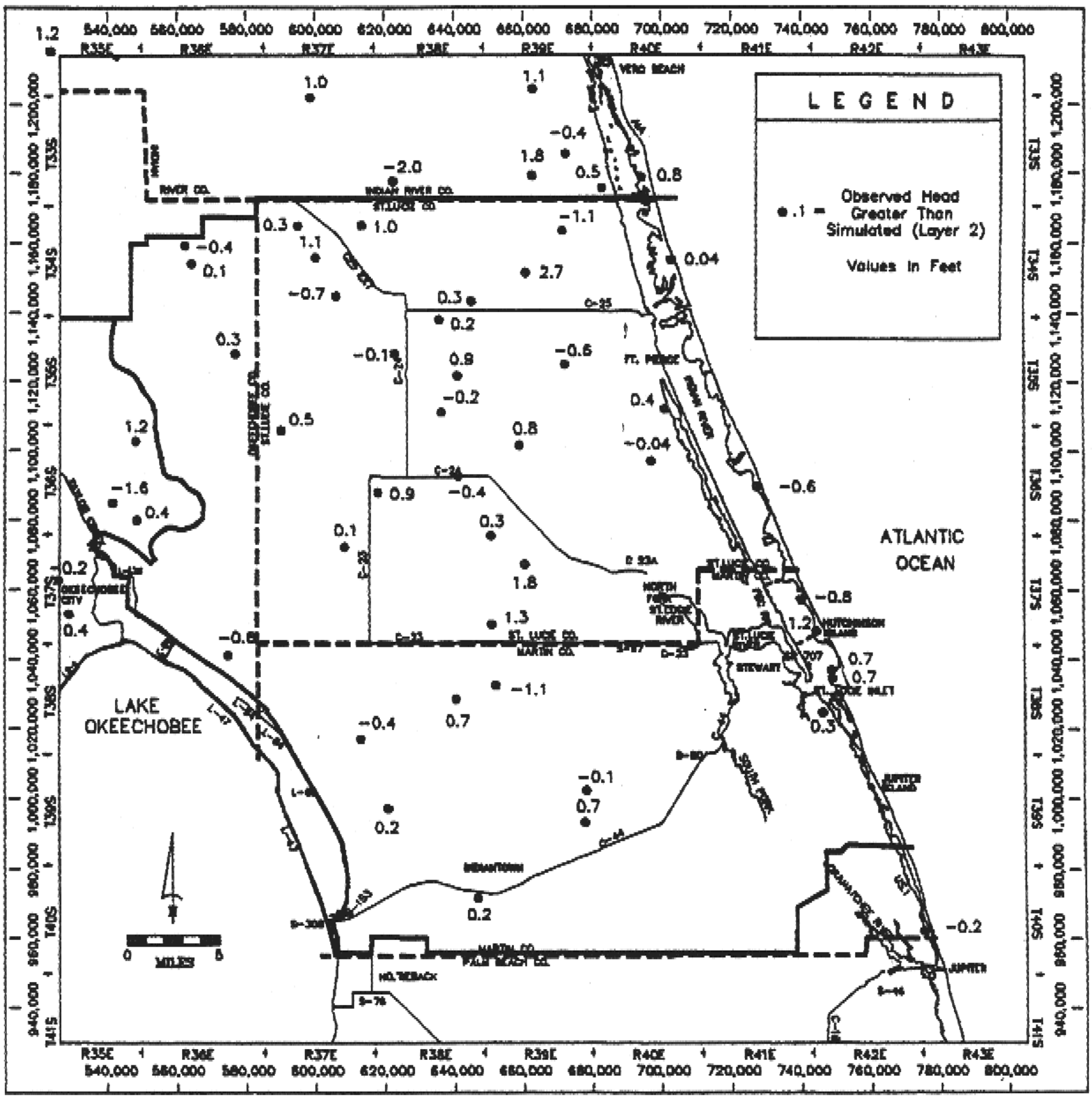

FIGURE 38: Average Observed Minus Transient Computed Heads, Layer 2 (Upper Floridan Aquifer)

2) Refinements to water use estimates, and

3) Prescribed head levels in layer 4.

Each of these adjustments merit their own discussion and are documented in the following three subsections.

Vertical Conductance

Because layer 2 (UFA) is well confined and because the natural head gradient favors upward flow, very little water enters layer 2 from above. The only exception is in the high ground level elevation areas where the flow gradient is reversed. Most of the recharge sources typical for an unconfined system such as rivers, canals, and rainfall do not reach the UFA (layer 2) in the study area. Rather, the recharge source is either from below through upward vertical leakance or from the boundaries. It became clear early in the calibration process that most water taken from the UFA via wells is replaced with vertically migrating water from below the UFA.

The model was sensitive to vertical conductance (Vcont) adjustments to both layers 2 and 3. Relatively little is known about the degree of interconnection between the UFA (layer 2) and LFAPZ1 (layer 3). Less is known about the interconnection between the LFAPZ1 (layer 3) and LFAPZ2 (layer 4). Layer 2 and layer 3 vertical conductance was varied from 0.05 day^{-1} to 0.00001 day^{-1}, which represents the range reported in UFA (layer 2) aquifer performance tests. It was determined that calibration of layer 2 could be attained using many combinations of layer 2 Vcont and layer 3 Vcont. One of the two unknown Vcont variables had to be held constant and the other adjusted to proceed with calibration. Lacking any information on layer 3 Vcont and knowing the average layer 2 Vcont value obtained from aquifer performance tests, Vcont in layer 2 was uniformly set to .04/day in most of the cells in this layer. The cells not set to this value are east of the coastal fault.

UFA water levels fluctuate radically in monitor wells east of the fault in response to small volumes of withdrawn water. Relatively small volumes are used because agricultural enterprises are virtually non-existent east of the Intracoastal Waterway. Observed and computed heads best matched in barrier island monitor wells when a uniform Vcont value of 0.00004 day^{-1} for layer 2 was used east of the fault. The positioning of this fault is discussed in the Transmissivity Section of this report. A large data gap exists in the FAS on the barrier island between monitor well SLF-46 and SLF-47. Refinements to the model should be made here in the future if data becomes available.

After layer 2 Vcont was established, layer 3 Vcont was adjusted until computed and observed water levels in layer 2 best matched. The final uniform value of Vcont used for all cells in layer 3 was 0.00032 day^{-1}. This value was multiplied by the thickness of the confining zone to ensure that the corresponding values of vertical hydraulic conductivity remained reasonable. The range for vertical hydraulic conductivity was 0.064 to 0.16 ft/day, which is within the expected range for dolomitic limestone (Driscoll, 1986).

Refinements to Wells Package

Once the Vcont terms were specified, pumping estimates needed to be adjusted. The pumping estimates were adjusted up in some areas, down in others. The estimates were adjusted upward in all wells for the following months:

May 1989	+30%
June 1989	+20%
May 1990	+34%
June 1990	+32%
July 1990	+5%

This represents changes made to five out of 23 stress periods. Based on model results, actual UFA water use was higher than the average survey response reflected in these months. Water use estimates may have been low for the following reasons:

1) Withdrawals by non permitted users were not factored in to the estimates.

2) Since these were unusually dry years more water was used than the average permittee responding to the survey was aware of.

3) The estimates of use in these months were understated in the survey responses due to concerns about exceeding permitted allocations.

All well withdrawals in Indian River County were decreased by 30 percent. Thirty one percent of all water discharged to wells in the model was from cells in Indian River County. A regional cone of depression caused by these concentrated withdrawals for agricultural irrigation occurred in the south-central portion of the county. The initial estimates were decreased to bring both the steady state and transient models into calibration. Initial water use estimates may have been high because all survey responses were from permittees inside the

SFWMD boundaries and did not reflect Indian River County water use. It appears FAS wells may have been used less there than in the UECPA during the calibration period. The changes to cells in Indian River County do not directly impact model results within the UECPA; they merely alter the fluxes at the boundary of the UECPA. The impacts were considered minimal.

Decreases in water use estimates were made for all stress periods to four small areas in the model where initial estimates created unrealistically high cones of depression. The cells affected and percentage decrease are listed in Table 6 and plotted in Figure 39.

Cells in these four areas have the highest water withdrawals in the model. It is possible those withdrawals were overestimated by 20-30% due to decreased capacity of wells caused by lowered heads. The inherent property of artesian wells to flow less in areas with lower heads is not addressed in this model. Well capacities were obtained either directly from the permit file or were assumed based on the diameter of the wells. The assumptions based on well diameter are based on the average observed capacities relative to casing size. Relatively low heads were observed in those cells where the modifications to pumpage were applied. Therefore, wells in those areas produce less than the original estimates. Modifications to account for this problem is needed in future model versions.

Additions to the initial well package were made in one case where unpermitted wells were withdrawing substantial volumes of water. Lakewood Park is a residential community in north-central St. Lucie County that uses FAS water to fill its numerous man made ponds. Monitor well SLF-70 is owned by the community and used to fill one of approximately 20 ponds on site. There are no records of water withdrawals for the calibration period so estimates were made knowing the number of wells and their capacities. Those estimates were refined by running the model enough times to closely match the observed monthly heads seen at SLF-70.

One addition was made on the St. Lucie County coast where an irrigation well exists, is utilized, and no pumpage reports are kept. That addition was for a single well named SLF-46. The well is also a monitor well. There are no other known FAS wells in the same cell as SLF-46. Reasonable withdrawal estimates were made knowing the well's capacity and purpose. Those estimates were refined by numerous transient model runs until the computed and observed heads closely matched for that cell.

Prescribed Head Levels Layer 4

Prescribed heads in layer 4 were generated initially by interpolating layer 2 (UFAS) March 1990 observed water levels to obtain an array with a head value for each cell in the layer. This was done based on the observation that heads in layers 2, 3 and 4 are generally the same to within ±3 feet. During the transient calibration process, that array was altered slightly. Initial model runs computed heads in some cells both higher and lower than observed in monitor wells corresponding to those cell locations. The differences between computed and observed values at cells corresponding to monitor wells were recorded. They ranged between -2 to +5 feet. Where those recordings were one foot or higher, they were added to the original March 1990 observed recordings for each respective well. This modified list of water levels then was used to generate a new array of prescribed heads using the interpolative statistical method of kriging. This new array was substituted for the original layer 4 prescribed heads file in subsequent model runs resulting in an improved transient calibration. The modified heads used to generate layer 4 prescribed heads as well as the amount and percent the original value of head changed are listed in Table 7. The cell locations of those wells with modified heads are shown in Figure 40.

The layer 4 prescribed heads represent the steady state water level in that layer. There are not enough data available on layer 4 heads spatially to dispute the final values used in the model calibration.

Results

Layer 2 (Upper Floridan Aquifer)

The model was considered to be satisfactorily calibrated, within the tolerance range, to all 54 observation wells on the network. The range of observed versus simulated average differences was between -2.0 and +2.7 feet. Figures 41 and 42 show the simulated head distributions in May 1990 (end of dry season) and September 1990 (end of wet season), respectively in layer 2. Generally, the highest water levels occur in the south portion of the model. Higher water levels represented by the 48 foot contour line are furthest north in central Martin County. The highest water levels are found in Palm Beach County. The natural flow direction is best described by the end of wet season map when water levels are rebounded fully. This map shows the direction of flow is north in Palm Beach and Martin counties. Soon after crossing the St. Lucie County border, the direction of flow veers more easterly,

TABLE 6: DECREASES TO INITIAL PUMPING ESTIMATES FOR CALIBRATION ENHANCEMENT

AREA	ROW	COLUMN	% DECREASE
Area 1	10	25-26	30%
	11	25-26	30%
	12	25-26	30%
	13	25	30%
Area 2	18	20-22	30%
	19	18-22	30%
	20	19-22	30%
Area 3	26	18-20	30%
	27	19-20	30%
	28	19-20	30%
Area 4	6	25-26	20%
	7	25-26	20%
	8	25	20%

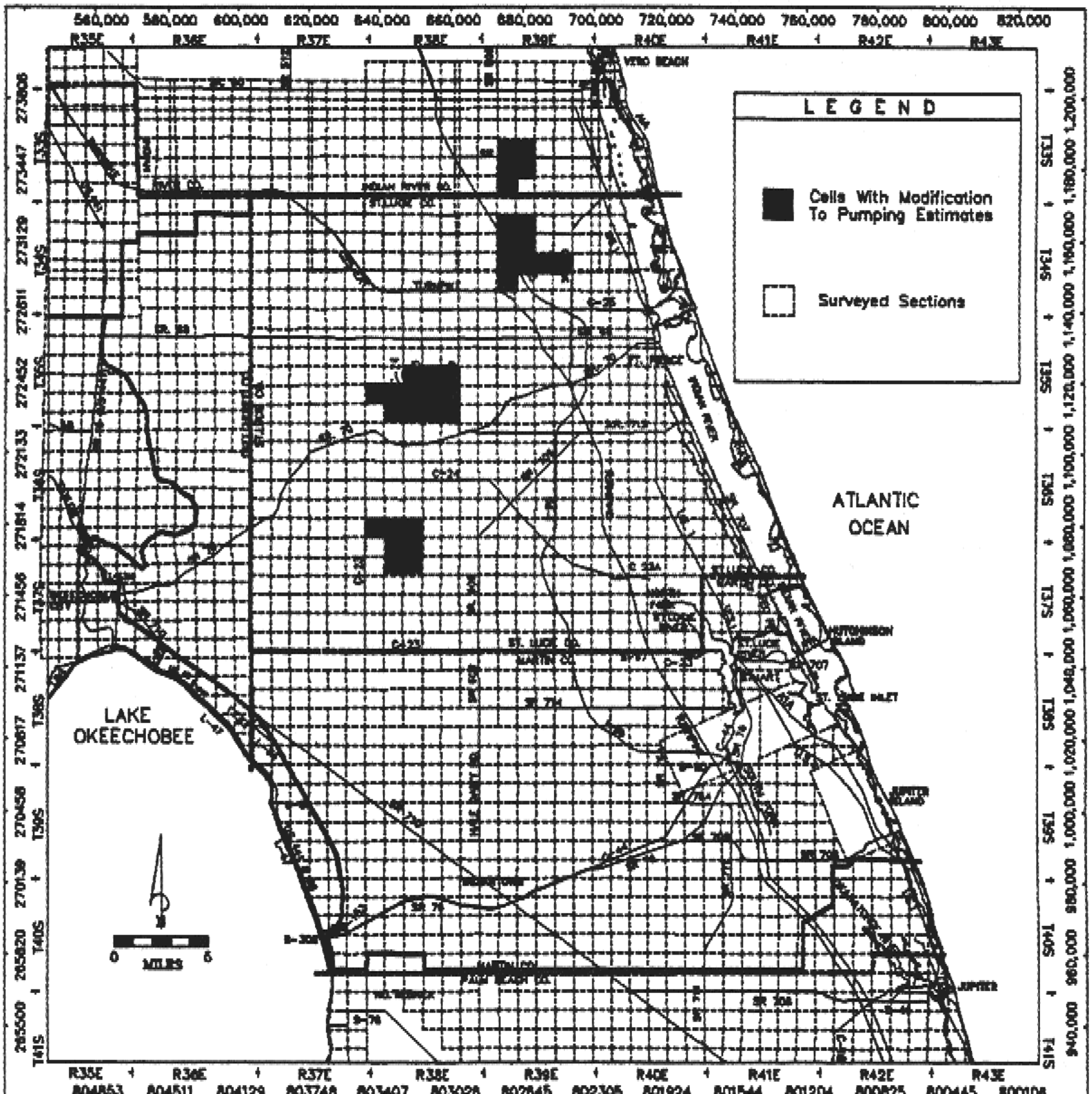

FIGURE 39: Location of Areas in Model Where the Largest Annual Water Level Fluctuations Occur in Layer 2 (Upper Floridan Aquifer) and Where Original Water Use Estimates were Decreased

TABLE 7: CHANGES MADE TO SPECIFIED HEAD LAYER 4 FROM MARCH 1990 OBSERVED HEADS

Monitor Well Name	Original Mar/90 Head NGVD (ft)	New Mod. Head NGVD (ft)	Changes (ft)
MF-3	45.0	47.0	2.0
MF-33	45.7	46.7	1.0
MF-55	42.1	41.1	-1.0
OKF-31	44.5	45.5	1.0
OKF-73	41.3	40.3	-1.0
SLF-3	37.9	43.0	5.1
SLF-4	38.4	39.4	1.0
SLF-17	42.4	44.4	2.0
SLF-21	36.1	37.1	1.0
SLF-36	38.9	42.9	4.0
SLF-40	39.3	41.3	2.0
SLF-50	40.8	41.8	1.0
SLF-61	45.8	43.8	-2.0
SLF-64	40.4	41.4	1.0
SLF-69	40.7	43.7	3.0
SLF-71	39.3	40.3	1.0
IR-312	35.6	37.6	2.0

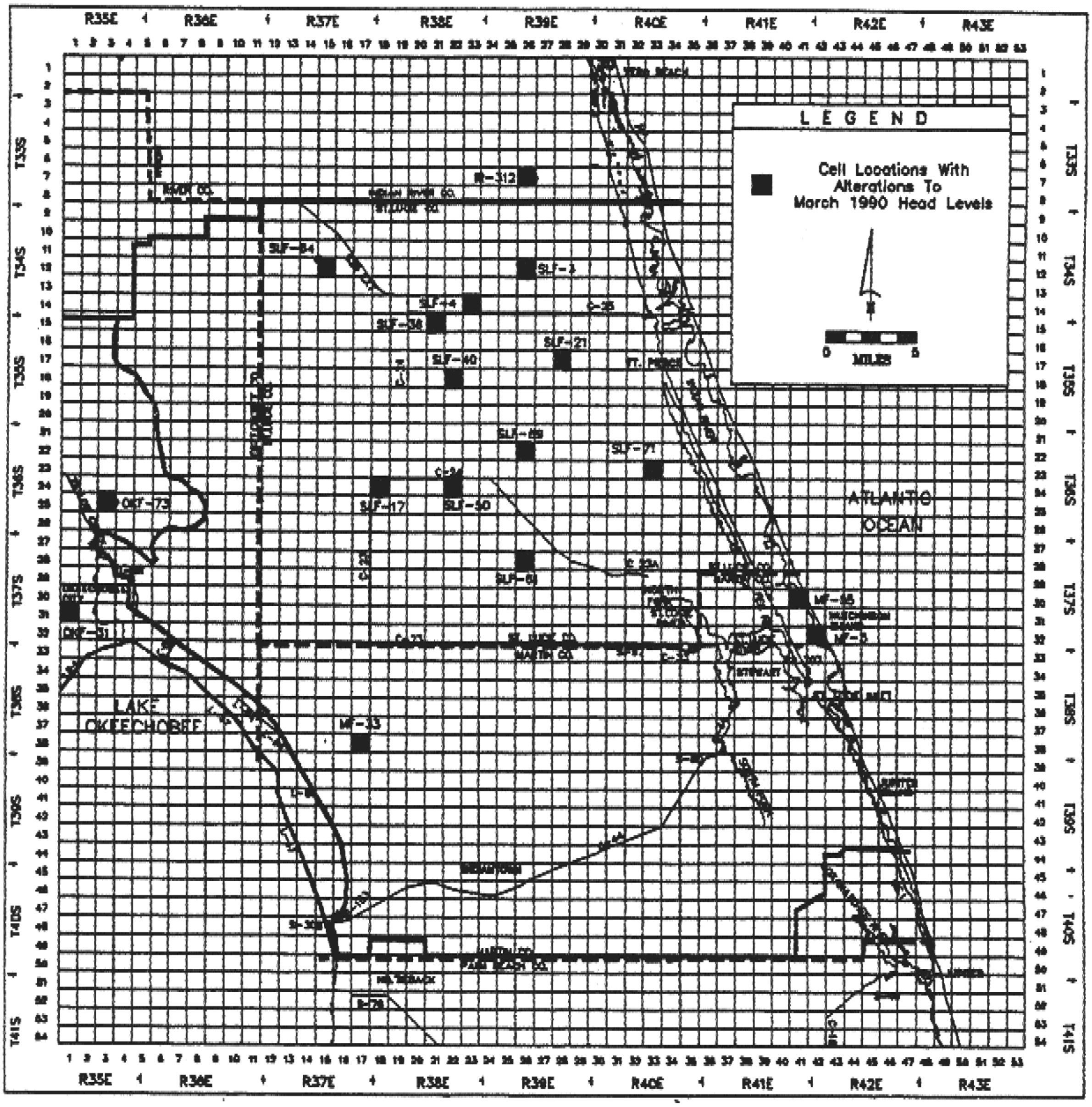

FIGURE 40: Cells in Model Where Changes to Original Prescribed Water Levels were made to Layer 4

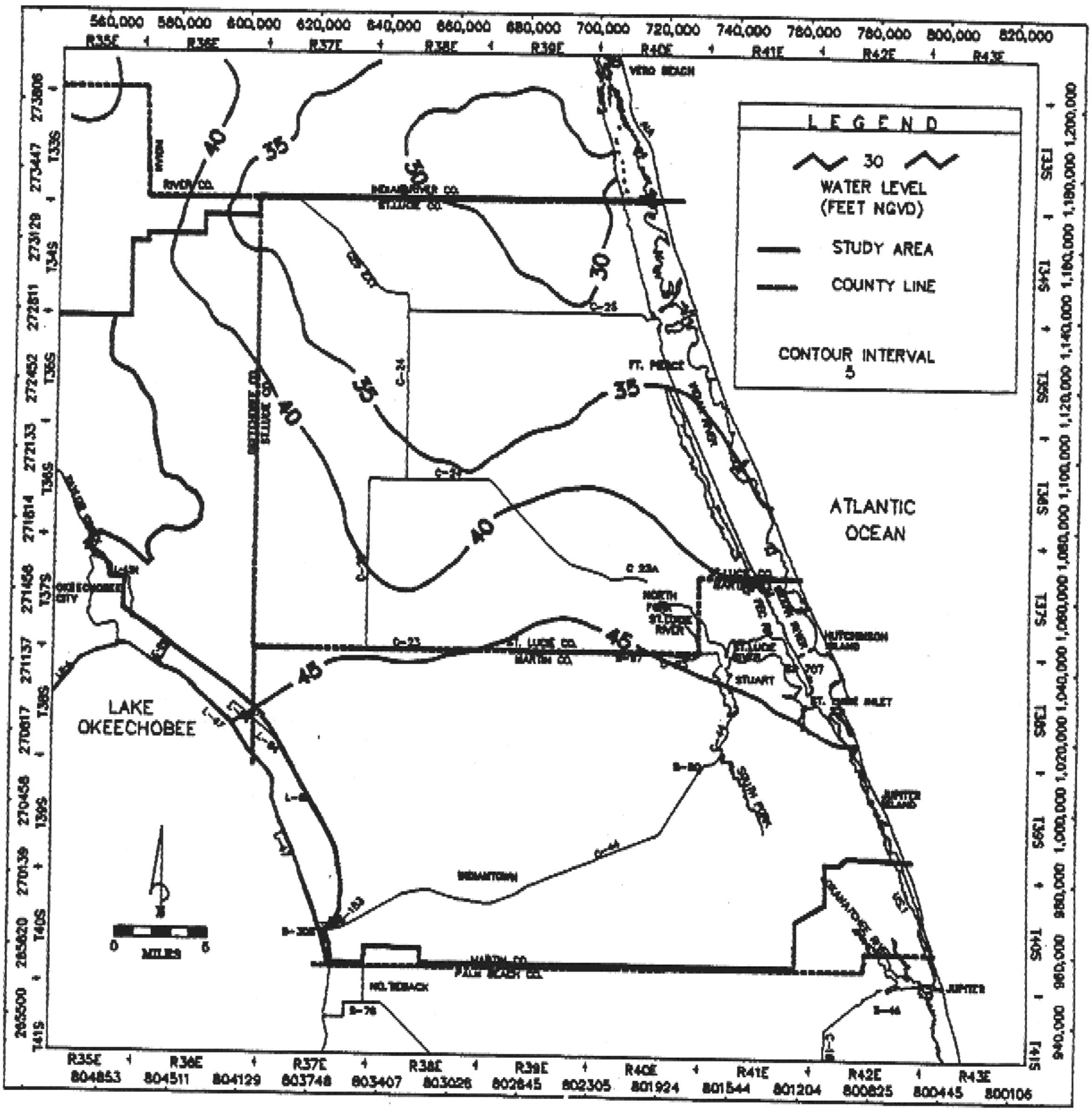

FIGURE 41: Simulated Water Levels, Layer 2 (Upper Floridan Aquifer), May 1990

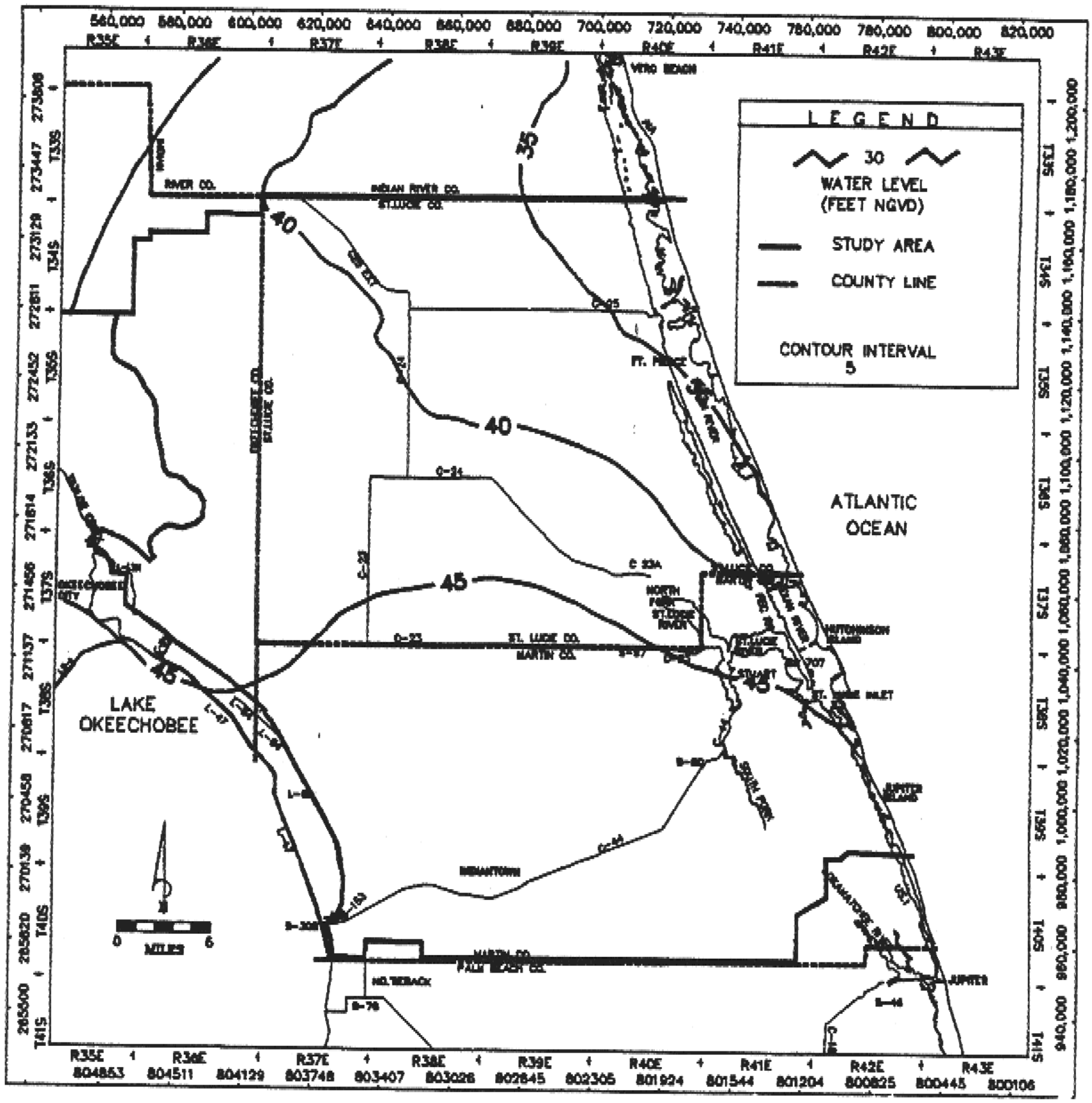

FIGURE 42: Simulated Water Levels, Layer 2 (Upper Floridan Aquifer), September 1990

becoming eastward near the City of Ft. Pierce, St. Lucie County. At this point, the water seems to flow out under the Atlantic Ocean. The end of dry season map shows a marked warping of the end of wet season contour lines. The contours move in toward areas of intense water well withdrawals. Water levels change between 0 to 8 feet between wet and dry season; the average change is approximately three feet.

Layer 3 (Lower Floridan Aquifer Producing Zone 1)

Figures 43 and 44 show the simulated head distribution in May and September for layer 3. Comparison to figures 41 and 42 show the general head distributions, and, therefore, the regional flow patterns, to be similar to the UFA. Water levels in the LFAPZ1 (layer 3) react fairly quickly to changes in water levels in the UFA (layer 2) due to its fairly good hydraulic connection to it and the large differences in gradient established by lowered heads in layer 2 resulting from pumping.

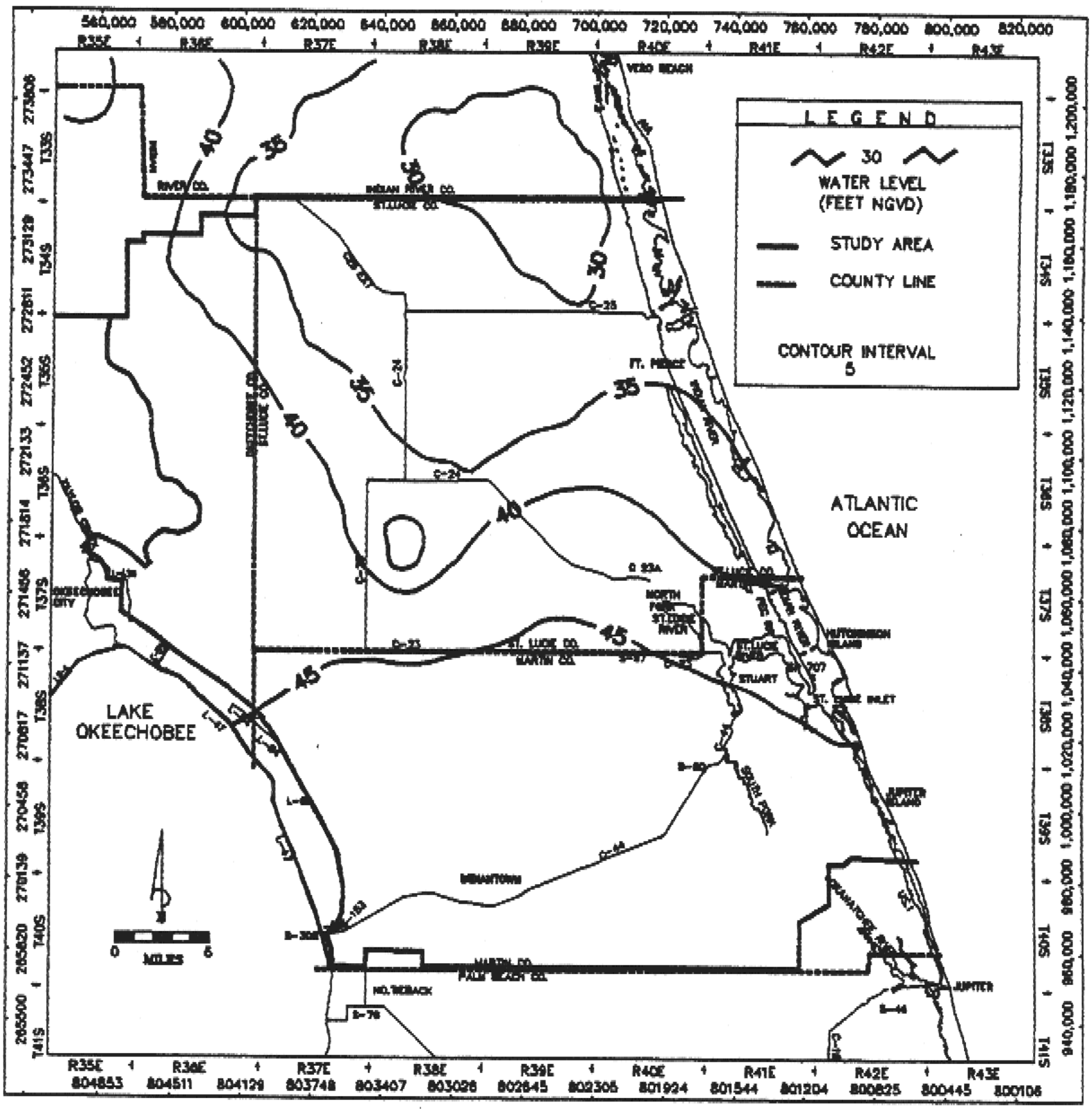

FIGURE 43: Simulated Water Levels, Layer 3 (Lower Floridan Aquifer Producing Zone 1), May 1990

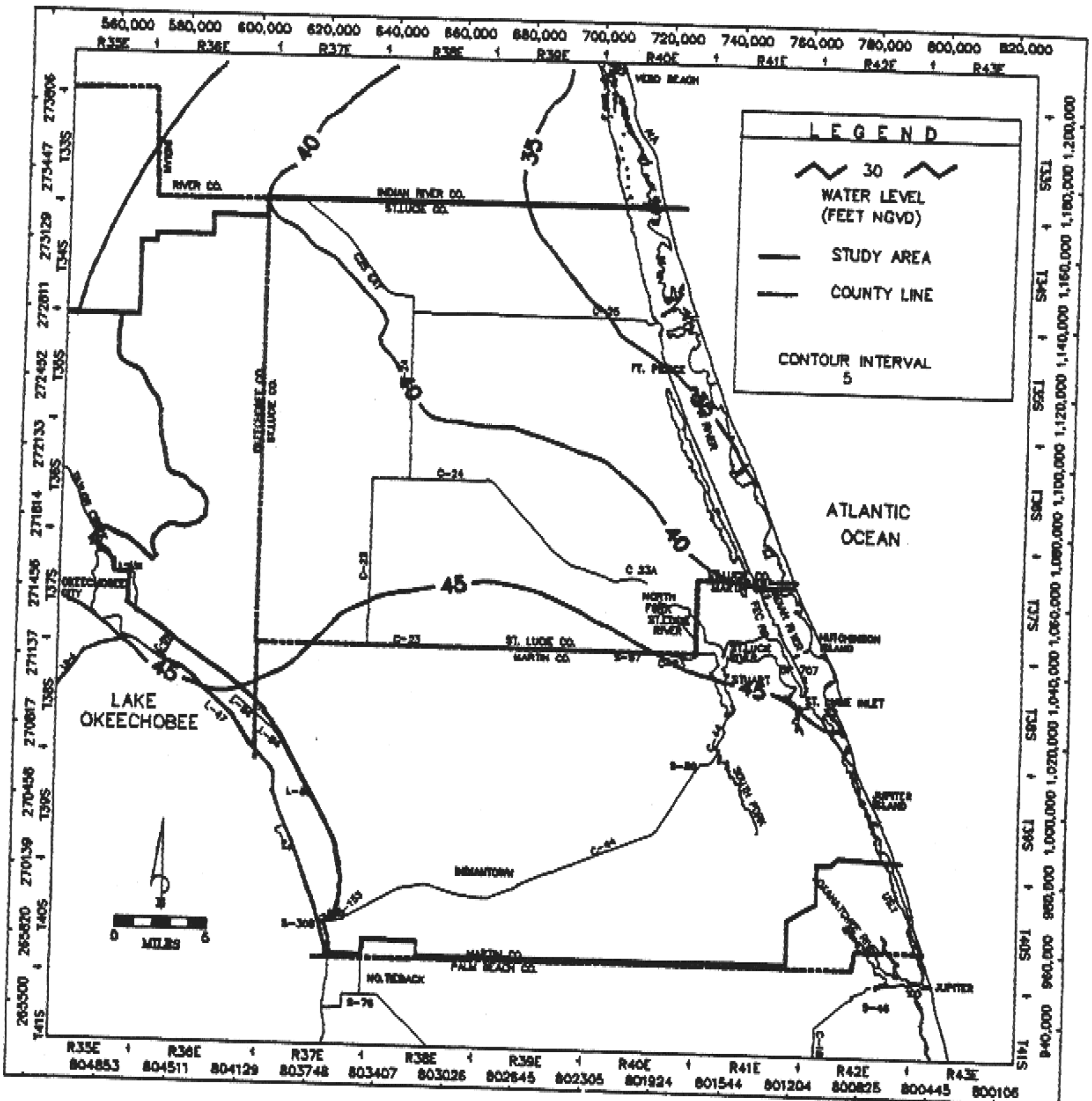

FIGURE 44: Simulated Water Levels, Layer 3 (Lower Floridan Aquifer Producing Zone 1), September 1990

SENSITIVITY TESTING

The model was tested to check its sensitivity to changes in the boundary conditions, aquifer parameters, and layer 4 prescribed head conditions. Boundary conditions were tested two ways:

1. By replacing the existing specified boundaries with constant head boundaries. This, in effect, provided the boundary cells with a constant head through all stress periods of the simulation. The model then was run using steady state conditions and the constant head configuration, and the resulting heads were compared to the steady state calibration run (baserun). This resulted in an average head difference of -0.12 feet, the majority of that change was in the boundary cells themselves. The impact on layer 2 (Upper Floridan Aquifer System) volumetric budget was a 6.7 percent decrease of net inflows and outflows.

2. MODFLOW was modified by SFWMD personnel to permit the user to incorporate a multiplier to conductance values in the General Heads package. The conductance multiplier used in the general head package (specified flux boundary cells) was changed from the initial value of 10.0 to 0.1, 1.0, 100.0, 1000.0, and 10,000.0. The conductance parameter controls the rate of flow through the boundary cells.

The results of these changes demonstrated small, relatively insignificant changes in computed heads ranging between (-0.18 to 0.02 feet). Most head differences occurred in boundary cells, whereas very little changes occurred in the majority of model cells. The percent the volumetric budget change inflows and outflows changed from the base run ranged from -2.6% for a conductance multiplier of 0.1 to +1.1% differences for conductance multiplier greater than or equal to 100.0. Significant head differences resulting from the various types of boundary conditions are limited to a range of two cells inward from the location of the specified boundary. The specified flux boundary used is considered a conservative and accurate method of defining boundaries and should be valid for the various uses planned for this model.

Aquifer parameters were tested by altering the following: prescribed heads in constant head layer 1, layer 2 transmissivity, Vcont between layers 1 and 2, storage coefficient in layer 2, layer 3 transmissivity, Vcont between layers 2 and 3, Vcont between layers 3 and 4, and prescribed heads in constant head layer 4. The impacts these changes had on layer 2 computed steady state heads and volumetric budgets are presented in Tables 8 and 9. It was assumed that testing this range of values would bracket the range of uncertainty for each parameter. Only head and volumetric changes which occurred in layer 2 (UFAS) cells were recorded since this was the only calibrated layer in the model and represents the most important portion of the FAS from a water resource point of view.

LAYER 2 (UPPER FLORIDAN AQUIFER)

Simulated heads in layer 2 are highly sensitive to the following changes: Vcont between layers 2 and 3, Vcont between layers 3 and 4 and, prescribed heads in layer 4 (constant head layer). Computed heads were moderately sensitive to transmissivity of layers 2 and 3, and generally insensitive to changes to all other parameters. Doubling Vcont in layer 2 resulted in a maximum change of +1.85 feet , with an average change of +0.01 feet, the volumetric budget showed a 0.15% increase in water originating from layer 3. Halving layer 2 Vcont caused a maximum change in simulated heads of -2.0 feet, with an average change of -0.02 feet, the volumetric budget demonstrated water supplied to layer 2 from layer 3 decreased 0.2%. Doubling Vcont in layer 3 resulted in a maximum change of +2.49 feet, with an average change of +0.38 feet, the budget shows 3.3% more water was supplied from layer 3. Halving layer 3 Vcont resulted in a maximum decrease in layer 2 simulated heads of -3.56 feet, with an average change of -0.71 feet, 2.5% less water was supplied by layer 3. Doubling transmissivity in layer 2 resulted in a maximum increase of +2.34 feet, with an average rise of +0.20 feet in layer 2, the budget showed a 0.4% increase of water from all sources into layer 2. Doubling the transmissivity of layer 3 resulted in a maximum head rise of 0.88 feet and an average of 0.04 feet, a 3.0% increase of water from all sources was indicated by the volumetric budget. Layer 2 is more sensitive to changes in transmissivity than layer 3 because it has lower transmissivity values. The largest changes in head were near areas of large withdrawals. Therefore, impacts parameter changes had on computed heads were most evident near large withdrawals and negligible where withdrawals were nonexistent.

TABLE 8. SENSITIVITY RESPONSES IN LAYER 2 COMPUTED HEADS DUE TO CHANGES IN MODEL PARAMETERS (In feet above steady-state base run)

Layer in Which Change Made	Parameters Changed from Calibration Run	Max. Increase in Water Level (Layer 2)	Max. Decline in Water Level (Layer 2)	Average Change in Water Level (Layer 2)	Standard Deviation (Layer 2)
Layer 1	Starting Head + 5	0.07	0.00	0.01	0.01
	Starting Head -5	0.03	-0.03	-0.01	0.01
	Layer 1-2, VCONT x2	0.01	-0.46	-0.06	0.05
	Layer 1-2, VCONT x10	0.23	-3.51	-0.38	0.41
	Layer 1-2, VCONT x.5	0.22	-0.01	0.02	0.02
	Layer 1-2, VCONT x.1	0.39	0.07	0.04	0.02
Layer 2	Starting Head + 10	0.00	0.00	0.00	0.00
	Transmissivity x2	2.34	-0.32	0.20	0.20
	Transmissivity x5	4.89	-0.85	0.13	0.22
	Layer 2-3, VCONT x2	1.85	-0.08	0.01	0.02
	Layer 2-3, VCONT x10	4.85	-0.17	0.03	0.22
	Layer 2-3, VCONT x.5	0.09	-2.00	-0.02	0.12
	Layer 2-3, VCONT x.1	0.25	-6.14	-0.13	0.44
	Storage Coeff. x.1	0.07	-0.03	0.00	0.01
	Storage Coeff. x10	0.15	-0.06	0.02	0.04
	Storage Coeff.x100	1.18	-0.31	0.13	0.29
Layer 2 (Layer 2 Gen. Heads Package Conductivity Term Adjusted)	Constant Head	1.38	-1.94	-0.12	0.26
	Cond. x.1	0.44	-4.45	-0.18	0.39
	Cond. x1	0.37	-3.09	-0.08	0.19
	Cond. x100	1.61	-0.20	0.02	0.06
	Cond. x1,000	1.95	-0.24	0.02	0.07
	Cond. x10,000	1.96	-0.24	0.02	0.07
Layer 3	Transmissivity x2	0.88	-0.40	0.04	0.20
	Transmissivity x10	3.37	-1.93	0.18	0.95
	Transmissivity x.5	0.28	-0.86	-0.03	0.15
	Transmissivity x.1	0.84	-3.67	-0.06	0.32
	Layer 3-4, VCONT x2	2.49	-0.56	0.38	0.57
	Layer 3-4, VCONT x10	5.88	-1.36	0.70	0.70
	Layer 3-4, VCONT x.5	0.60	-3.56	-0.71	0.90
	Layer 3-4, VCONT x.1	0.51	-16.56	-4.63	4.59
Layer 4	Starting Head + 5	4.97	-28.04	-0.12	7.68
	Starting Head -5	0.00	-29.73	-7.23	5.80

TABLE 9. SENSITIVITY RESPONSES IN LAYER 2 VOLUMETRIC BUDGETS DUE TO CHANGES IN MODEL PARAMETERS

Layer in Which Change Made	Parameters Changed from Calibration Run	IN % Change into Layer 2 from:				OUT % Change out of Layer 2 to:			
		Layer 1	Layer 3	Head Dep Bounds	Total In	Layer 1	Layer 3	Head Dep Bounds	Total Out
Layer 1	Starting Head + 5	61.4	-1.0	-0.8	-0.7	-2.6	0.9	1.1	0.6
	Starting Head -5	-44.9	0.8	0.8	0.7	19.7	-1.9	-1.2	0.7
	Layer 1-2, VCONT x2	10.1	5.4	4.2	5.3	138.9	-12.2	-6.1	5.3
	Layer 1-2, VCONT x10	894.5	35.8	24.3	36.3	880.4	-26.2	-26.2	36.3
	Layer 1-2, VCONT x.5	-50.0	-1.8	-1.3	-1.8	-49.9	6.3	2.1	-1.8
	Layer 1-2, VCONT x.1	-90.0	-3.1	-2.3	-3.2	-90.0	12.7	4.0	-3.2
Layer 2	Starting Head + 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Transmissivity x2	0.7	-1.4	20.1	0.4	0.3	6.5	12.8	0.5
	Transmissivity x5	2.2	-2.2	68.2	4.0	1.0	69.5	58.4	4.0
	Layer 2-3, VCONT x2	0.0	0.2	1.6	0.3	0.0	5.0	3.3	0.3
	Layer 2-3, VCONT x10	0.0	0.3	6.9	0.9	0.1	16.9	6.8	0.9
	Layer 2-3, VCONT x.5	0.0	-0.2	-1.8	-0.4	-0.1	-6.6	-5.4	-0.4
	Layer 2-3, VCONT x.1	0.3	-1.3	-7.2	-1.8	-0.6	-31.9	-24.7	-1.8
	Storage Coeff. x.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Storage Coeff. x10	0.1	-0.2	-0.8	0.0	0.2	0.0	-1.1	0.0
Layer 2 (Layer 2 Gen. Heads Package Conductivity Term Adjusted)	Constant Head	-22.7	-1.4	-100.0	-6.7	-5.5	-73.9	-100.0	-6.7
	Cond. x.1	4.3	3.6	-86.4	-4.2	-1.0	-66.4	-98.0	-4.2
	Cond. x1	2.0	1.0	-39.6	-2.6	-0.5	-37.0	-78.0	-2.6
	Cond. x100	-0.5	0.9	3.0	1.1	0.1	-14.0	177.1	1.1
	Cond. x1,000	-0.6	1.3	-8.0	0.5	0.1	-46.3	275.1	0.5
	Cond. x10,000	-0.6	1.0	-10.0	0.1	0.1	-56.9	286.3	0.1
Layer 3	Transmissivity x2	0.7	0.7	26.4	3.0	0.3	54.1	35.6	3.0
	Transmissivity x10	2.2	3.3	156.0	16.6	1.5	307.3	169.8	16.6
	Transmissivity x.5	-0.4	1.2	-11.4	0.1	-0.2	1.1	-5.4	0.5
	Transmissivity x.1	-0.7	2.5	-21.5	0.5	-0.4	12.1	-9.7	0.5
	Layer 3-4, VCONT x2	-2.2	3.3	156.0	16.6	1.5	307.3	169.8	16.6
	Layer 3-4, VCONT x10	-4.1	6.8	72.0	12.4	4.8	243.0	52.1	12.4
	Layer 3-4, VCONT x.5	1.8	-2.5	12.2	-1.2	-4.5	-20.7	-4.3	-1.2
	Layer 3-4, VCONT x.1	40.0	-11.1	98.8	-1.4	-26.6	6.1	-59.1	-1.4
Layer 4	Starting Head + 5	-29.9	48.8	751.1	110.0	13.0	1,954.1	1,526.0	109.8
	Starting Head -5	39.4	9.5	1,182.8	111.7	-22.3	2,357.3	-100.0	111.7

RESULTS

1. Regional water levels identified by well observations have been simulated by a ground water flow model for the upper Floridan Aquifer in the Upper East Coast Planning Area. The impacts of additional FAS water use now can be determined with the aid of the three dimensional ground water flow model which was developed and validated using 54 wells to 23 months of water level data.

2. Model results indicate that the most significant source of recharge to the Upper Floridan Aquifer in the Upper East Coast Planning Area is leakance from the Lower Floridan Aquifer. Approximately 91 percent (140 MGD) of the recharge in the study area was provided by upward leakance. The remaining nine percent (13.4 MGD) mostly comes from the borders of the study area across Okeechobee and Indian River counties. Leakance values more than transmissivity values are critical for determining expected well yields in the FAS.

3. Withdrawals from agricultural wells account for approximately 90 percent (138 MGD) of the outflow from the modeled area. The remaining outflow is comprised of 4.5 percent (6.6 MGD) upward and 4.8 percent (7.4 MGD) downward leakance. Ground water flow out of the modeled area boundaries is minor and accounts for 1.0 percent of the total (1.5 MGD). The majority of that water escapes to the Atlantic Ocean east of St. Lucie and Indian River counties.

4. Permeability and vertical leakance in the UFA is drastically reduced east of a structural anomaly, a trace of which follows the Intracoastal Waterway from Vero Beach to north Martin County, where it veers east toward the ocean. These factors are responsible for low yielding wells observed on Hutchinson Island and limit future large scale development of the aquifer in this area.

CONCLUSIONS AND RECOMMENDATIONS

1. Currently, portions of the UECPA are limited by the SFWMD to allocations of 1.5 acre-inches per month. The FAS model can be used to test the basis for this number.

2. Since the water quality of the lower Floridan Aquifer is probably inferior to that of the upper Floridan Aquifer, and the lower Floridan Aquifer System is the major source of recharge to the upper system, water quality deterioration in the upper Floridan Aquifer System can be expected in the future, especially in areas of intense water withdrawals. Model results and field observations indicate that water levels fluctuate annually as much as eight feet in three areas of intense citrus irrigation located in north and north-central St. Lucie County (refer to Figure 42). Permitted FAS user surveys showed that water quality deterioration has already been observed in these areas. Additional development of the FAS should not be permitted in these three areas.

3. Since deteriorating water quality is a probability in the future, water from selected Floridan Aquifer wells should be monitored for total dissolved solids and chlorides on a quarterly basis. The monitor wells should be in areas of high water use. Water quality changes with time then can be used to characterize the water quality of the lower Floridan Aquifer and continue to verify current assumptions about upward leakance and its impacts on the Upper Floridan Aquifer.

4. Leakance and head differentials between the Upper and Lower portions of the Floridan Aquifer proved to be the most important parameters in the calibration process. Such data are obtained by drilling a test site containing two lower Floridan Aquifer wells to approximately -1,600 feet NGVD and two upper Floridan Aquifer wells to approximately -1,000 feet NGVD, followed by two aquifer performance tests. There were only three aquifer performance tests of this type performed in the entire study area. It is recommended that at least two additional test sites be constructed and tested to obtain verification of the leakance and water level parameters used in the model. The well sites should be located in areas where the FAS is projected to be used for future public water supply. The FAS will probably be utilized as a public water supply source in the near future in parts of Martin and St. Lucie counties because of problems with Surficial Aquifer ground water contamination and wetland impacts.

5. This was the first calibrated three dimensional regional Floridan Aquifer system model developed for SFWMD needs. It is recommended that future regional FAS modeling projects incorporate information regarding leakance and head values in the lower portions of the FAS. Those data are obtained by testing the interconnection between the upper and lower Floridan Aquifer by drilling and testing deep wells as described in Recommendation 4 above. Since construction of deep aquifer performance test sites is very expensive, it is recommended that the feasibility of developing future regional models of the Floridan Aquifer System with respect to budgetary constraints be carefully analyzed.

6. The accuracy of any model depends on proper assumptions. It was found that agricultural water use accounted for 90 percent of the FAS water withdrawals in the study area. Accurate estimates of the amount of agricultural withdrawals were paramount in developing this model. A survey was used to obtain critical information on water withdrawals in the period modeled. It was found that water use habits of UFA permittees in the study area varied considerably. The survey provided adequate answers for making crude water use estimates, but more exact data are necessary to be able to model the system more precisely. It is recommended that permittees in the study area be required to submit monthly pumpage reports to the District. The reports should show the amount of time wells were allowed to flow freely for each month of the year. A small percentage of UFA permittees already are submitting these monthly reports since it was stipulated as a special condition in their water use permit. Actual water use records would provide valuable data in the calibration of future

models, particularly in areas of heavy ground water use.

7. This model can be used to simulate proposed water use scenarios on a regional basis. Where a finer scale or site-specific evaluation is required, the regional model can be used to provide boundary conditions. The District is currently working on a software program capable of zooming in on user-specified areas of the regional model and extracting data to form a submodel, or model within a model. Submodels will have a finer grid resolution and be capable of simulating small scale impacts on adjacent users. The model in its present configuration is limited in its ability to assess impacts on a small scale due to the regional nature of the model grid. As a result, small scale impacts on adjacent users may be overlooked due to cell-wide averaging. Improved grid resolution is needed to better assess these small scale impacts.

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APPENDIX A

GEOLOGIC AND HYDROSTRATIGRAPHIC DATA

APPENDIX A
LIST OF FIGURES

APPENDIX A
LIST OF TABLES

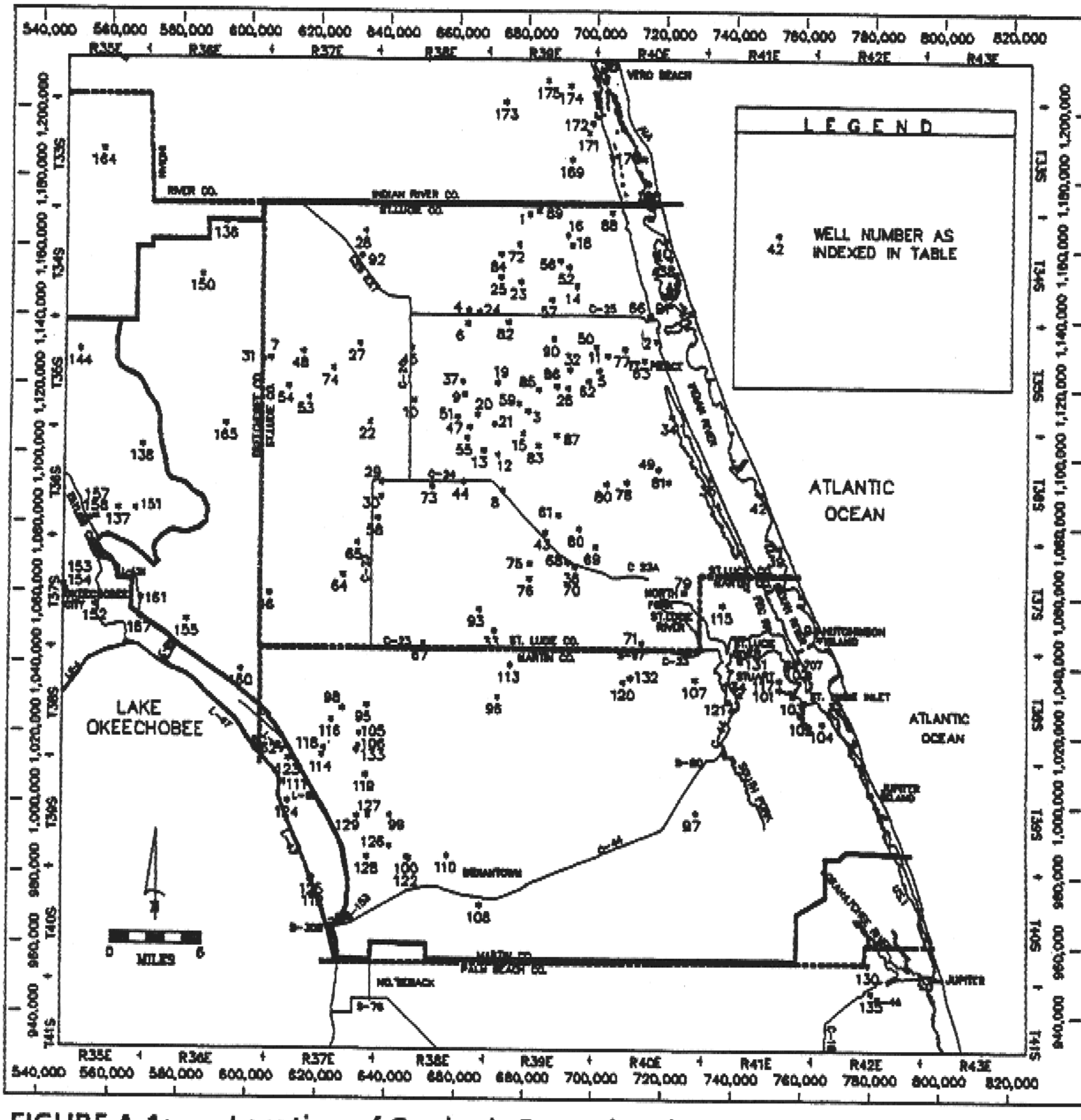

FIGURE A-1: **Location of Geologic Control and Water Quality Wells as Indexed in Table 2**

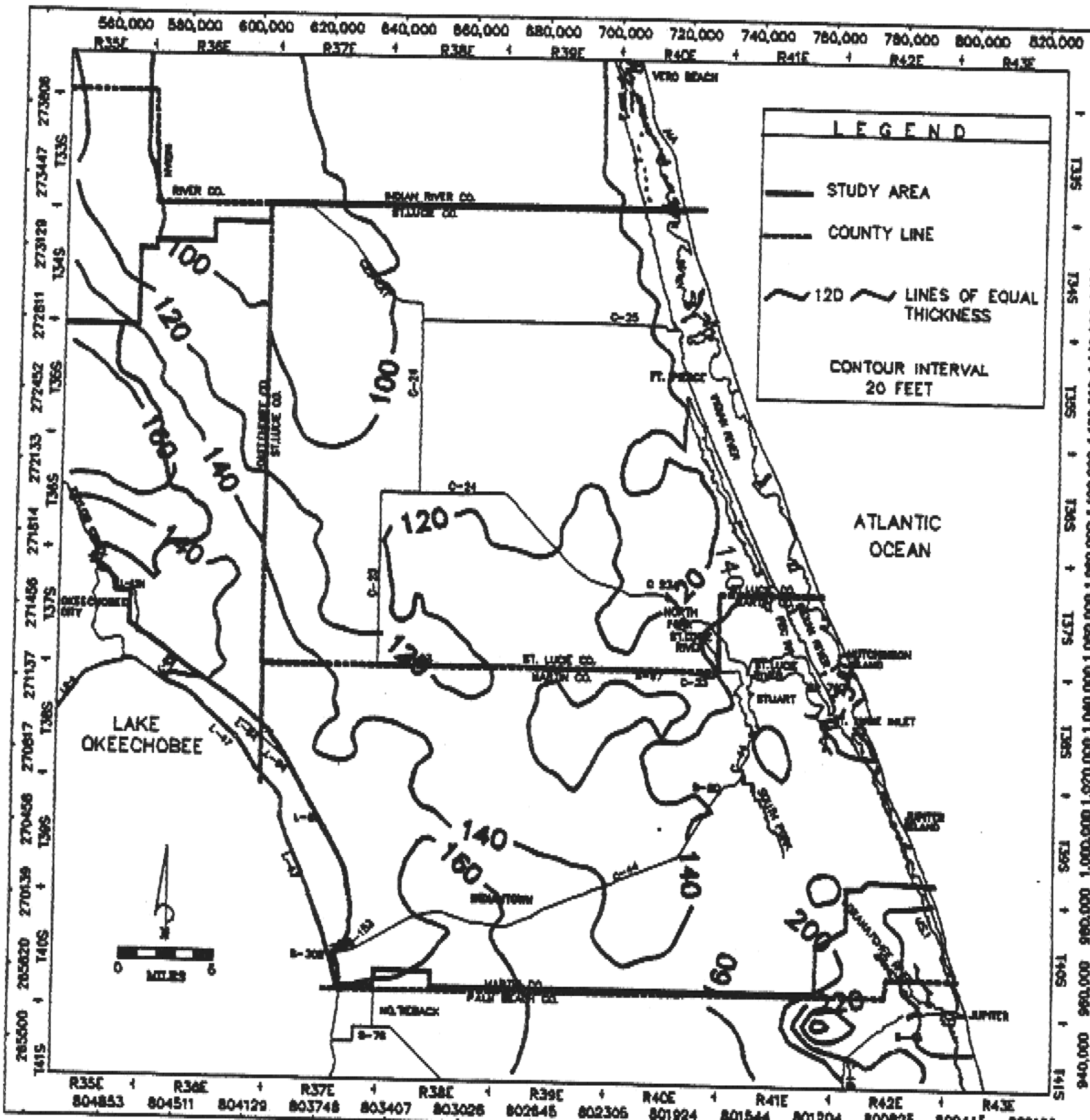

FIGURE A-2: Thickness of the Surficial Aquifer in Study Area

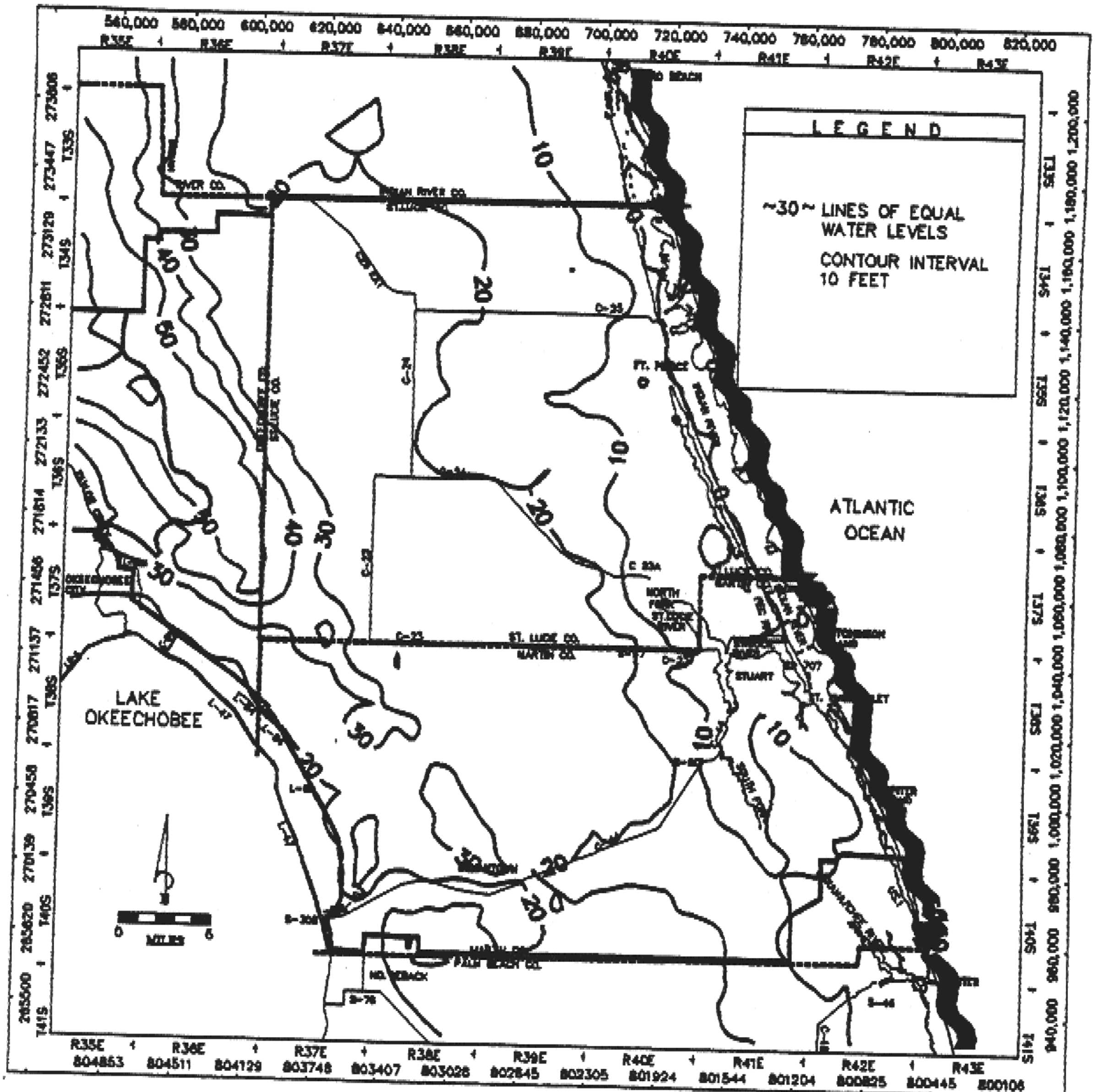

FIGURE A-3: Water Levels in the Surficial Aquifer in Study Area

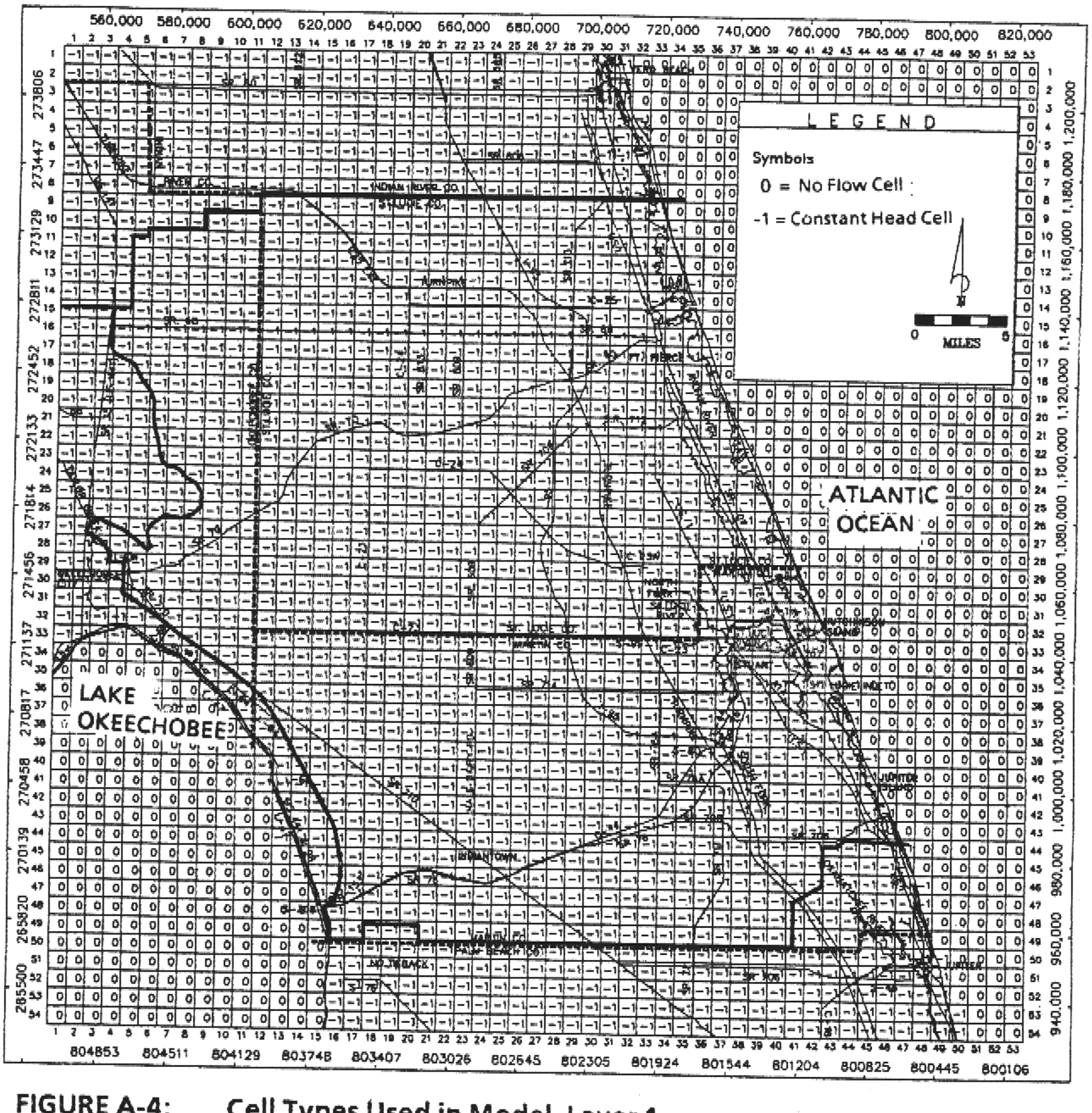

FIGURE A-4: Cell Types Used in Model, Layer 1

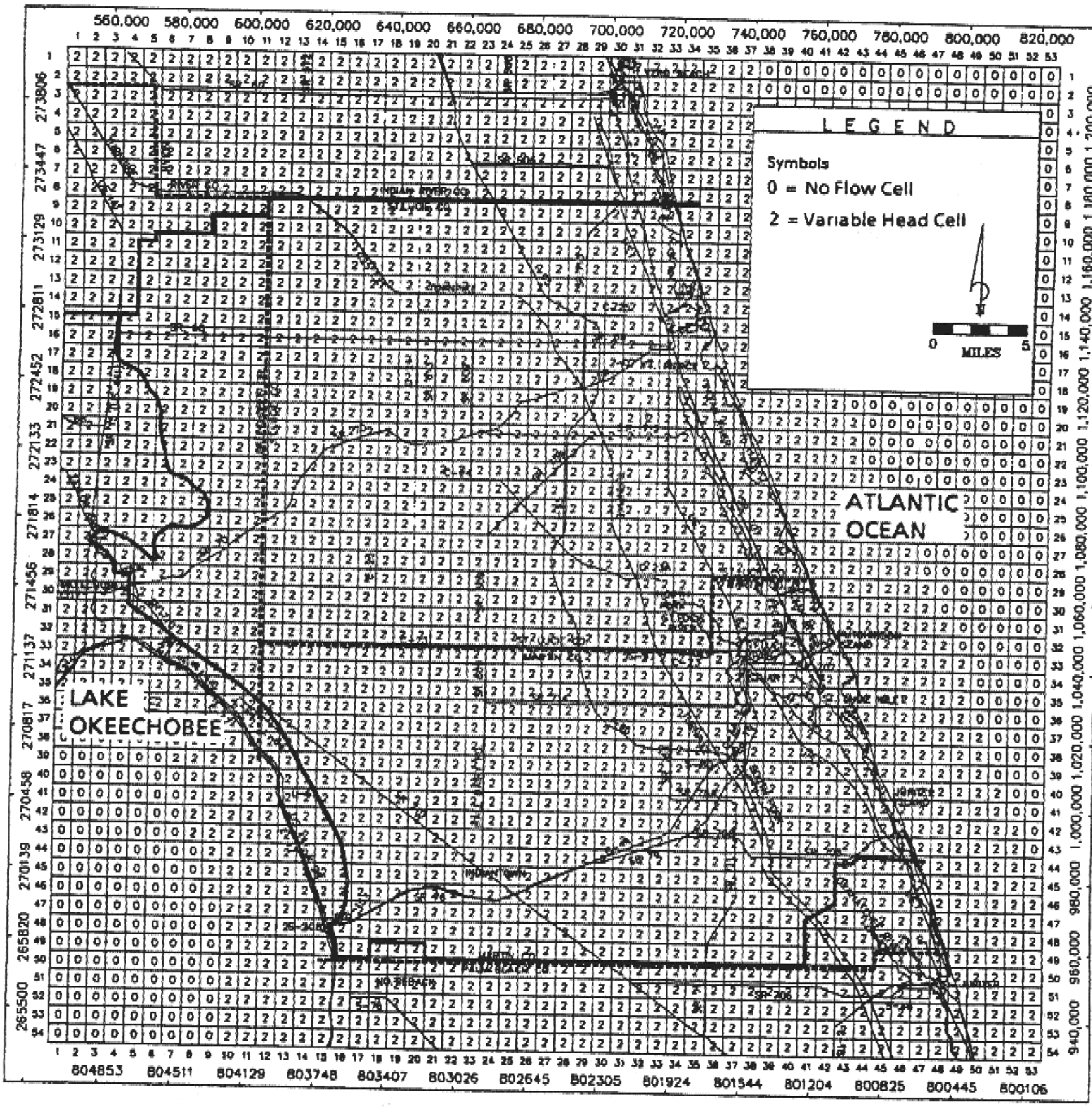

FIGURE A-5: Cell Types Used in Model, Layer 2

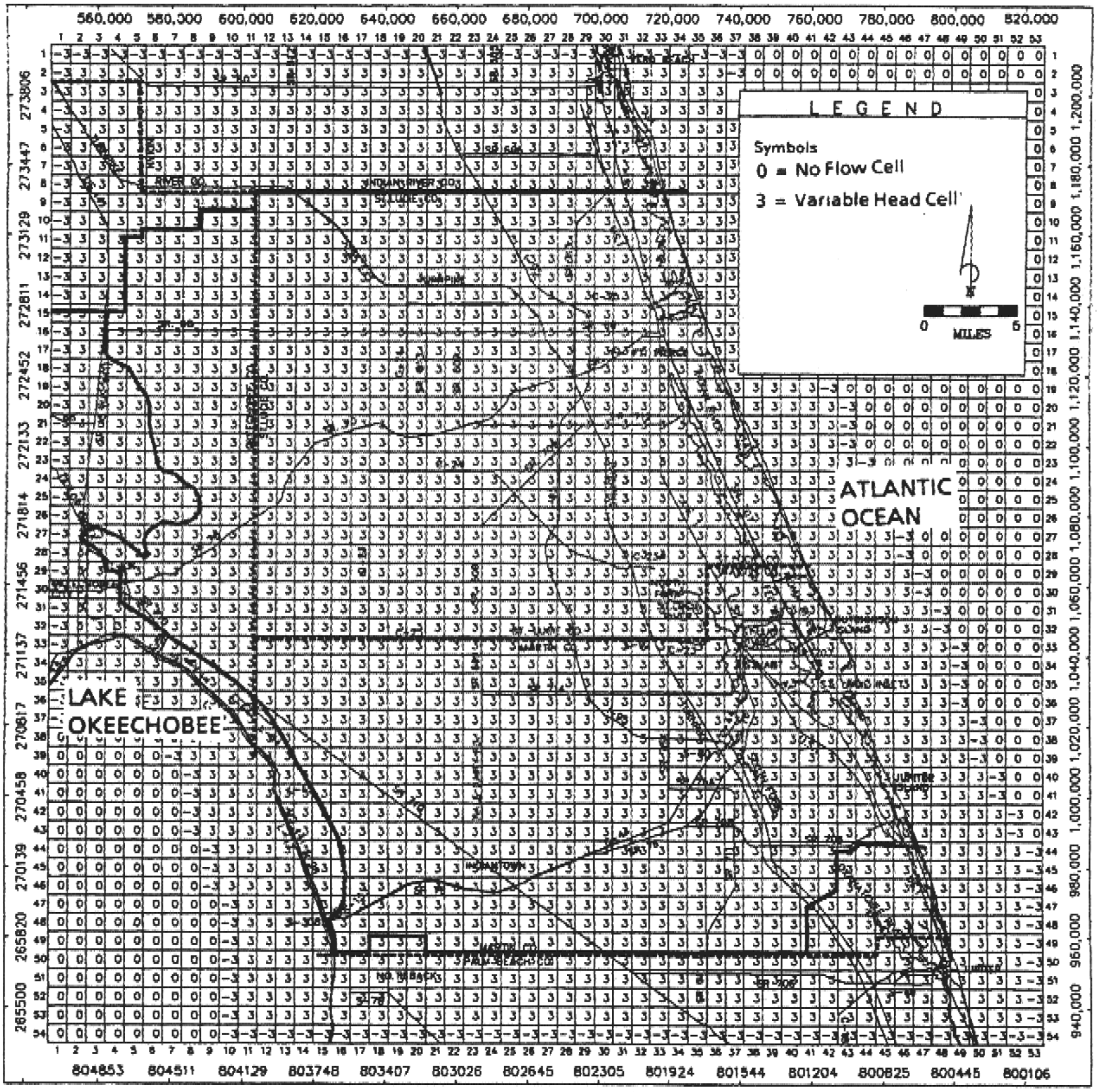

FIGURE A-6: Cell Types Used in Model, Layer 3

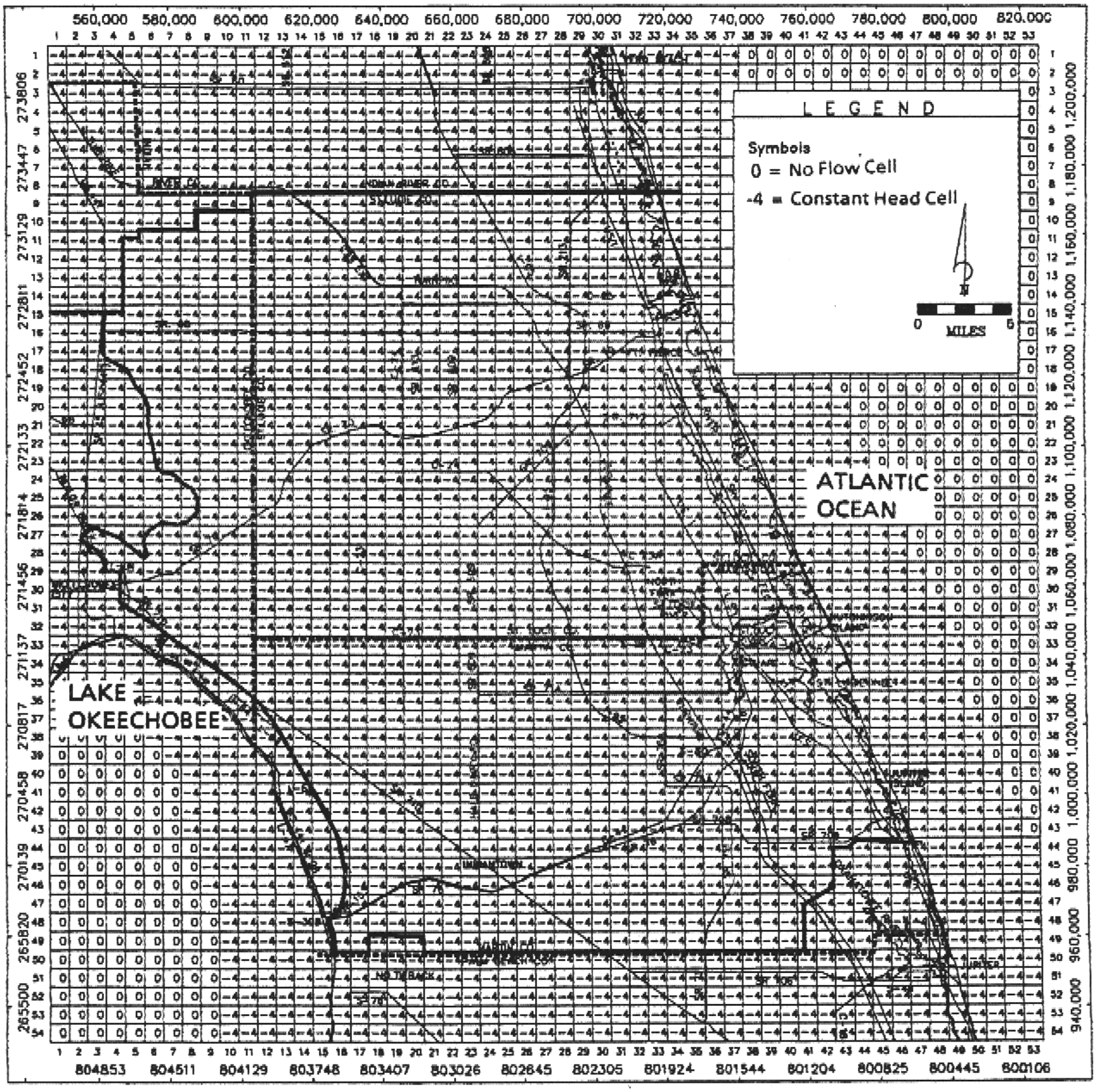

FIGURE A-7: Cell Types Used in Model, Layer 4

TABLE A-1: Specific Capacity Data Used to Calculate Transmissivity

SPECIFIC CAPACITY DATA USED TO CALCULATE TRANSMISSIVITY										
WELL NAME	TOTAL DEPTH (FT)	CASING DEPTH (FT)	CASING DIA. (INCH)	AQUIF PENET (FT)	DISCH Q (GPM)	W.L. DRWD (FT)	UNCOR. SP.CAP GAL/M	CORR. DRWD (FT)	CORR. SP.CAP GAL/M	CALC. TRANS. GAL/D/FT
MF-2		300	6		217	15.0	14.5	13.5	16.1	94933
MF-4	1525	630	6	400	240	83.0	2.9	83.0	2.9	12700
MF-6	1052	400	5	653	72	7.5	9.6	6.8	10.5	104900
MF-9	880	342	6	538	83	9.0	9.2	8.6	9.7	104300
MF-23	1119	456	5.5	663	167	15.3	10.9	12.7	13.1	73500
LFM-1	1282	800	8	482	600	15.2	39.5	8.6	70.0	94000
FGS-M-29	1100	450	4	650	150	20.8	7.2	11.8	12.7	82750
FGS-M-34	1100	450	6	650	400	12.2	32.8	4.3	93.0	372713
FGS-M-88	1180	700	5	380	250	36.3	6.9	23.7	10.6	75167
FGS-M-143	958	272	6	686	550	27.5	20.0	19.3	28.5	139804
FGS-M-146	1155	432	5	723	300	16.8	17.9	6.0	50.0	217440
FGS-M-168	1080	500	5	580	300	19.9	15.1	7.4	40.5	183136
FGS-M-443	951	275	6	676	300	35.0	8.6	32.3	9.3	70472
FGS-M-740	990	474	6	516	650	28.7	22.6	9.7	67.0	278827
FGS-M-741	890	460	6	430	235	27.5	8.5	24.3	9.7	71917
FGS-M-742	1003	460	6	543	225	29.0	7.8	26.2	8.6	67945
FGS-M-746	510	360	6	150	325	22.0	14.8	17.7	18.4	103332
FGS-M-748	773	397	6	376	300	31.2	9.6	27.2	11.0	76611
FGS-M-759	853	650	6	203	400	23.0	17.4	11.3	35.4	164719
FGS-M-901	1110	490	8	620	150	10.3	14.6	9.9	15.2	91777
FGS-M-909	1095	470	6	625	300	22.0	13.6	17.3	17.3	99360
FGS-M-913	1100	500	6	600	120	8.0	15.0	7.6	15.8	93944
FGS-M-919	950	636	8	314	750	27.0	27.8	19.4	38.7	176636
FGS-M-920	1033	488	5	585	225	28.0	8.0	21.7	10.4	74444
FGS-M-921	1032	455	5	577	250	26.0	9.6	17.8	14.0	87444
FGS-M-923	1000	500	8	500	300	10.3	29.1	9.1	32.9	155692
FGS-M-927	792	450	6	342	350	23.8	14.7	17.5	20.0	109110
FGS-STL44	691	125	5	691	350	15.0	23.3	11.1	31.5	150637
OKF-2	666	218	5.7	468	93	15.3	6.1	14.9	6.2	153400
OKF-5	1181	440	6	593	176	1.5	117.3	1.0	172.5	341600
OKF-7	963	412	8	515	265	26.2	10.1	22.8	11.6	27200
OKF-13	1200	600	12	600	789	7.0	112.7	4.2	188.8	556000
OKF-26	825	625	12	216	400	80.0	5.0	79.6	5.0	54945

TABLE A-1: Specific Capacity Data Used to Calculate Transmissivity (Continued)

SPECIFIC CAPACITY DATA USED TO CALCULATE TRANSMISSIVITY										
WELL NAME	TOTAL DEPTH (FT)	CASING DEPTH (FT)	CASING DIA. (INCH)	AQUIF PENET (FT)	DISCH Q (GPM)	W.L. DRWD (FT)	UNCOR. SP.CAP GAL/M	CORR. DRWD (FT)	CORR. SP.CAP GAL/M	CALC. TRANS. GAL/D/FT
OKF-27	725	477	12	248	346	85.0	4.1	84.8	4.1	51695
SLF-4	993	482	9	511	752	11.8	63.7	8.2	91.7	461700
SLF-9	1058	256	10	795	906	14.0	64.7	12.4	73.1	531526
SLF-13	1238	344	12	894	881	14.5	60.7	13.6	64.8	553771
SLF-14	1700	1268	24	950	688	14.1	48.8	10.6	64.9	412800
SLF-15					808	14.1	57.3	14.1	57.3	629200
SLF-20	896	311	5	585	71	13.3	5.3	12.7	5.6	81495
SLF-21	707	156	3.5	544	91	12.4	7.3	9.8	9.3	49000
SLF-23	894	350	6	544	283	12.2	23.2	9.1	31.1	106700
SLF-24			10		229	15.3	14.9	14.8	15.5	208500
SLF-27	900	300	8	600	463	10.2	45.4	8.7	53.2	229062
SLF-28	883	200	4	683	28	7.9	3.5	7.6	3.7	24600
SLF-40		376	6		264	15.6	16.9	12.8	20.6	111367
SLF-51	1000	600	6	175	388	35.4	10.9	25.5	15.2	107077
SLF61	695	350	5	345	104	16.6	6.3	15.5	6.7	61119
SLF62	935	480	5	455	178	18.0	9.9	13.9	12.8	83132
SLF67		300	6		200	11.6	17.2	10.3	19.4	107007
SLF69		300	6		734	16.6	44.2	14.6	50.3	218429
SLF75	700	480	8	220	550	13.7	40.1		40.1	210000
SLF76	860	790	8	70	260	14.44	18.0	13.0	18.0	110000
FBW-1	904	508	12	396	700	13.0	54.0	12.22	57.0	309000
FGS-IR202	700	209	6	491	440	22.0	20.0	17.8	24.7	126082
FGS-IR243	900	220	6	680	450	41.0	11.0	36.2	12.4	81666
FGS-IR245	850	220	4	630	330	37.0	8.9	18.9	17.5	100083
FGS-IR251	700	220	4	480	200	16.0	12.5	8.3	24.1	123915
FGS-IR253	800	220	5	580	240	14.0	17.1	10.5	22.9	119582
IR7F	940		8		650	12.0	54.0	10.6	61.3	258319
IR12F	900		8		700	12.0	64.0	10.42	67.2	279472
IR20F			8		850	13.0	94.0	10.7	79.4	323745
IR21F	943		6		30	30.0	1.0	29.94	1.0	40508

TABLE A-1: Specific Capacity Data Used to Calculate Transmissivity (Continued)

SPECIFIC CAPACITY DATA USED TO CALCULATE TRANSMISSIVITY										
WELL NAME	TOTAL DEPTH (FT)	CASING DEPTH (FT)	CASING DIA. (INCH)	AQUIF PENET (FT)	DISCH Q (GPM)	W.L. DRWD (FT)	UNCOR. SP.CAP GAL/M	CORR. DRWD (FT)	CORR. SP.CAP GAL/M	CALC. TRANS. GAL/D/FT
IR26F	900		12		1000	15.0	200.0	14.58	68.6	284558
IR28F	880		8		1600	12.0	152.0	8.28	193.2	734668
IR42F	836		4		400	12.0	67.0	4.38	91.3	366662
IR47F	860		8		300	10.0	33.0	9.66	31.1	149033
IR53F			20		1800	14.0	180.0	13.8	130.4	507890
IR54F	900		6		450	8.0	64.0	5.28	85.2	344646
IR57F	660		8		450	29.0	18.0	28.3	15.9	94309
IR61F	960		10		1800	16.0	150.0	12.94	139.1	539193
IR64F	570		10		800	15.0	100.0	14.34	55.8	238340
IR72F	671		4		50	10.0	12.0	9.64	5.2	55619
IR76F	750		4		70	11.0	14.0	10.34	6.8	61336
IR77F	746		4		50	4.0	12.0	3.64	13.7	86492
IR80F			8		240	7.0	34.0	6.76	35.5	165091
IR84F			6		40	2.0	20.0	1.94	20.6	111344
IR95F	960		8		600	12.0	50.0	10.8	55.6	237501
IR370		300	8		717	15.0	47.8	11.6	61.8	260087

TABLE A-2: Geologic and Water Quality Data from FAS Well Inventory in UEC

MAP #	WELL NAME	DATA	STATE PLANARS		TOP OF FORMATION NGVD (FEET)				DEPTH	COND	CHLOR	TEMP	FLOW	DIAM	G.L. ELEV
			EAST (FEET)	NORTH (FEET)	HAWTH	OLIG	OCALA	AVON	FT B.L.S	M.S.	MG\L	°F	GPM	INCH	FT. NGVD
1	WA-727	G	681817	1169470	-80	-410	-464	-568	1000	6010	1770	84.6	2430	10	20
2	WA-815	G	718920	1133099	-113	-641	-763	-830	995	2982	530	79	600	8	5
3	WA-820	G	681712	1112819	-90	-446	-520	-570	922	1260	420	79.6	254	8	20
4	WA-823	G	664197	1141826	-96	-428	-472	-528	640	1280	350	82	135	4	20
5	WA-825	G	702475	1124530	-124	-494	-574	-625	670	1390	250	80	360	3	16
6	WA-826	G	663853	1137987	-100	-486	-530	-594	814	3230	870	82.9	249	5	20
7	WA-827	G	606769	1127698	-85	-435	-485	-575	830	1510	870	81	153	4	25
8	WA-829	G	674420	1089763	-100	-530	-580	-660	741	3050	967	84	360	5	20
9	WA-875	G	663214	1117587	-90	-472	-520	-584	704	2080	510	81	95	4	20
10	WA-878	G	648530	1115814	-90	-434	-488	-574	766	3050	811	82	1000	10	20
11	WA-887	G	704887	1128784	-89	-455	-521	-583	894	1450	214	78	243	5	17
12	WA-1000	G	672933	1100158	-104	-464	-537	-608	888	3710	726	82	258	5	15
13	WA-1005	G	668690	1101352	-100	-474	-518	-590	830	2975	885	82	217	4	20
14	WA-1009	G	695779	1148834	-112	-404	-468	-630	904	2168	492	79.2	221	5	20
15	WA-1016	G	680298	1106451	-117	-489	-553	-613	876	2838	695	82	425	8	20
16	WA-1031	G	693006	1163564	-90	-392	-450	-616	686	1935	283	79	135	4	20
17	WA-1032	G	728097	1151125	-108	-706	-910	-990	1020	6270	1734	76.5	250	5.5	20
18	WA-1033	G	694281	1160541	-84	-368	-428	-622	740	1990	367	78.1	219	4	20
19	WA-1083	G	672844	1120959	-100	-459	-504	-568	646	612	275	76.8	156	4	20
20	WA-1085	G	666933	1111846	-98	-456	-496	-568	784	1780	375	79.8	124	4	20
21	WA-1087	G	671903	1109141	-90	-460	-500	-572	624	2046	435	79.4	202	4	20

TABLE A-2: Geologic and Water Quality Data from FAS Well Inventory in UEC (Continued)

MAP #	WELL NAME	DATA	STATE PLANARS EAST (FEET)	STATE PLANARS NORTH (FEET)	TOP OF FORMATION NGVD (FEET) HAWTH	OLIG	OCALA	AVON	DEPTH FT B.L.S	COND M.S.	CHLOR MG\L	TEMP °F	FLOW GPM	DIAM INCH	G.L. ELEV FT. NGVD
22	WA-547	G	635843	1109508	-90	-540	-618	-714	820	2870	-	80.6	20	6	25
23	SLF-3A	G	679473	1150071	-	-465	-501	-609	1215	-	-	-	-	-	15
24	SLF-4	G	667351	1141435	-93	-433	-500	-543	993	2960	-	81.6	-	9	27
25	SLF-5	GL	673614	1151257	-115	-456	-500	-615	1227	3680	-	79.5	-	12	25
26	SLF-6	G	693308	1119537	-97	-459	-519	-	596	1518	-	77.5	-	3	20
27	SLF-9	G	632615	1131915	-68	-440	-485	-556	1058	3880	1500	81.5	-	-	25
28	SLF-11	G	634038	164435	-78	-350	-412	-464	946	2300	-	80.8	-	8	26
29	SLF-14	GL	639149	1091949	-99	-531	-615	-713	1286	-	-	83.5	-	-	25
30	SLF-17	G	639073	1087809	-96	-555	-625	-742	1287	2700	-	84	-	-	25
31	SLF-20	G	604518	1127187	-93	-462	-515	-620	896	1465	-	83.3	-	-	29
32	SLF-21	G	693823	1124791	-93	-444	-509	-580	707	1300	300	78.8	-	4	21
33	SLF-23	GL	672337	1049363	-87	-508	-625	-734	894	-	-	89.2	-	-	30
34	SLF-26	G	723635	1111413	-125	-600	-750	-870	958	-	-	74.6	-	-	15
35	SLF-28	G	734915	1093704	-64	-595	-735	-855	883	-	-	76.1	-	-	26
36	SLF-31	G	695810	1067948	-105	-605	-695	-775	1008	2579	-	82	-	-	25
37	SLF-40	G	662479	1121219	-90	-442	-490	-552	786	2424	-	81	-	6	20
38	SLF-42	G	722662	1156952	-118	-594	-775	-895	1060	3900	-	76.2	-	6	5
39	SLF-44	G	754882	1073628	-145	-638	-840	NDE	876	2712	-	76	500	6	5
40	SLF-45	G	721463	1162095	-75	-595	-795	-910	1100	4310	-	75.8	-	6	5
41	SLF-46	G	724669	1152217	-113	-657	-809	-955	1100	3754	-	75.8	100	6	5

TABLE A-2: Geologic and Water Quality Data from FAS Well Inventory in UEC (Continued)

MAP #	WELL NAME	DATA	STATE PLANARS		TOP OF FORMATION NGVD (FEET)				DEPTH	COND	CHLOR	TEMP	FLOW	DIAM	G.L. ELEV
			EAST (FEET)	NORTH (FEET)	HAWTH	OLIG	OCALA	AVON	FT B.L.S	M.S.	MG\L	°F	GPM	INCH	FT. NGVD
42	SLF-47	G	749646	1088844	-162	-643	-845	-992	1230	1088	203	75.6	50	6	5
43	SLF-48	G	687102	1077803	-115	-533	-605	-710	800	-	-	-	-	-	25
44	SLF-50	GL	662956	1092240	-112	-570	-646	-740	1000	-	1000	84	-	12	31
45	SLF-53	G	647734	1130958	-85	-511	-565	-635	906	-	1000	82	500	10	25
46	SLF-54	G	606948	1059741	-131	-675	-725	-845	1304	-	-	-	-	10	25
47	SLF-73	GL	664600	1108000	-125	-480	-540	-620	1450	-	-	-	-	-	-
48	WA-1107	G	616134	1129642	-78	-472	-514	-	636	2012	410	78.8	164	5	26
49	WA-1117	G	719842	1096043	-101	-537	-667	-803	820	3752	920	74.6	246	5	13
50	WA-1134	G	701631	1131292	-110	-410	-492	-542	923	2000	420	78	320	5.5	20
51	WA-1136	G	661167	1111116	-90	-414	-472	-550	674	3110	775	78	100	4	205
52	WA-1139	G	693411	1154377	-114	-376	-448	-630	987	2764	665	81	478	8	20
53	WA-1111	G	617795	1116419	-85	-550	-601	-711	1108	4500	1125	83	110	6	25
54	WA-1119	G	612108	1119533	-78	-455	-500	-600	673	2052	410	80.4	50	5	25
55	WA-1140	G	663896	1104967	-80	-450	-492	-570	792	4500	1188	83	126	4	20
56	WA-1142	G	690791	1156081	-100	-390	-446	-630	823	1984	468	79	209	4	20
57	WA-1144	G	688502	1144962	-94	-434	-500	-630	891	2347	538	79	245	5	20
58	WA-1147	G	638282	1081546	-93	-530	-583	-721	891	2080	403	82	184	5	25
59	WA-1158	G	678998	1115028	-100	-520	-576	-630	840	3218	742	81.8	161	4	20
60	WA-565	G	697021	1078759	-105	-534	-653	-725	763	3610	894	83	170	6	25
61	WA-582	G	690777	1082768	-105	-531	-605	-685	930	2913	739	80	130	6	25

TABLE A-2: Geologic and Water Quality Data from FAS Well Inventory in UEC (Continued)

MAP #	WELL NAME	DATA	STATE PLANARS		TOP OF FORMATION NGVD (FEET)				DEPTH	COND	CHLOR	TEMP	FLOW	DIAM	G.L. ELEV
			EAST (FEET)	NORTH (FEET)	HAWTH	OLIG	OCALA	AVON	FT B.L.S	M.S.	MG\L	°F	GPM	INCH	FT. NGVD
62	WA-699	G	699517	1121486	-100	-495	-575	-640	900	1910	420	79	600	6	25
63	WA-708	G	715616	1127527		-570	-690	-800	920	1496	708	75	125	4	10
64	WA-1082	G	628231	1065255	-91	-517	-625	-761	1324	4558	1098	85	571	7	25
65	WA-1175	G	632262	1074457	-95	-421	-519	NDE	750	1512	325	77.7	150	4	5
66	WA-1186	G	716989	1140258	-110	-580	-720	-804	824	1928	330	76.6	500	6	10
67	WA-1195	G	651586	1045645	-100	-530	-630	-770	950	3138	778	82.1	1000	8	30
68	WA-612	G	693638	1069251	-110	-620	-726	-800	870	1590	799	79.6	75	5	0
69	WA-611	G	701918	1073633	-100	-516	-590	-666	750	3582	940	79.2	25	6	0
70	WA-615	G	695629	1068048	-100	-620	-700	-804	970	4580	880	78.2	100	6	0
71	WA-625	G	715418	1046034	-	-	-	-	1012	4060	1010	81.6	50	4	0
72	HD-3	G	678795	1160772	-88	-393	-443	-	934	-	-	-	-	-	-
73	HD-4	G	653763	1090790	-105	-550	-613	-715	1125	-	-	-	-	-	28
74	HD18	G	624888	1124923	-61	-451	-511	-	638	-	-	-	-	-	29
75	HD22	G	682541	1068795	-101	-531	-594	-	695	-	-	-	-	-	24
76	HD23	G	682380	1064453	-120	-573	-678	-780	930	-	-	-	-	-	27
77	FB-1	GL	709923	1130728	-70	-486	-556	-632	904	630	320	-	-	12	20
78	NPSLI	GL	710753	1092360	135	-563	-705	-815	3324	-	-	-	-	-	15
79	SPSLI	GL	727706	1060642	-	-685	-860	-985	3500?	4500	1500	-	-	-	15?
80	W-4086	G	704804	1091723	-	-594	-660	-800	5159	-	-	-	-	-	31
81	FPLAG	GL	722748	1092424		-523	-680	-	711	-	-	-	-	-	15?

TABLE A-2: Geologic and Water Quality Data from FAS Well Inventory in UEC (Continued)

MAP #	WELL NAME	DATA	STATE PLANARS		TOP OF FORMATION NGVD (FEET)				DEPTH	COND	CHLOR	TEMP	FLOW	DIAM	G.L. ELEV
			EAST (FEET)	NORTH (FEET)	HAWTH	OLIG	OCALA	AVON	FT B.L.S	M.S.	MG\L	°F	GPM	INCH	FT. NGVD
82	SL-3	G	675831	1138442	-97	-437	-527	-	-	-	-	-	-	-	23
83	SL-6	G	684732	1102835	-78	-538	-588	-	900	-	-	-	-	-	22
84	SL-11	G	673586	1157821	-92	-400	-458	-	705	-	-	-	-	-	22
85	W1023	L	684748	1118992	-81	-	-481	-	930	-	-	-	-	-	19
86	W1052	L	690151	1120027	-101	-481	-591	-	-	-	-	-	-	-	19
87	W1393	L	690037	1105889	-78	-518	-623	-	1000	-	-	-	-	-	17
88	W3018	L	705847	1169990	-119	-419	-519	-	714	-	-	-	-	-	6
89	W3023	L	684512	1170492	-122	-377	-413	-	691	-	-	-	-	-	20
90	W7677	L	689186	1133655	-103	-369	-474	-	576	-	-	-	-	-	22
91	W14703	L	721911	1146243	-86	-583	-651	-	1092	-	-	-	-	-	5
92	W15106	L	632801	1157463	-65	-355	-415	-	900	-	-	-	-	-	35
Martin Co. Well Data															
93	MF-1	G	667888	105504	-	-534	-644	-760	840	4170	-	90.8	-	7	-
94	MF-3	GL	766873	1047651	-	-697	-875	-	1025	2618	-	77.7	-	8	-
95	MF-6	G	635484	1027817	-	-585	-676	-750	1052	1638	-	81	-	4	-
96	MF-9	G	673410	1030384	-	-510	-594	-716	880	4777	-	86.1	-	6	-
97	MF-10	G	731133	997246	-	-564	-646	-790	993	4160	-	78.6	-	5.5	20
98	MF-20	GL	628261	102688	-	-590	-650	-710	1200	-	-	81.3	-	8	30
99	MF-23	G	642188	996134	-	-675	-740	-850	1119	1200	-	81	-	6	16
100	MF-25	GL	647112	984337	-	-	-722	-840	1220	1468	-	82.2	-	8	28

TABLE A-2: Geologic and Water Quality Data from FAS Well Inventory in UEC (Continued)

MAP #	WELL NAME	DATA	STATE PLANARS		TOP OF FORMATION NGVD (FEET)				DEPTH	COND	CHLOR	TEMP	FLOW	DIAM	G.L. ELEV
			EAST (FEET)	NORTH (FEET)	HAWTH	OLIG	OCALA	AVON	FT B.L.S	M.S.	MG\L	°F	GPM	INCH	FT. NGVD
101	MF-27	GL	755137	1033035	-	-735	-895	-	991	1180	-	75.2	-	8	15
102	MF-28	G	760322	1041348	-	-780	-926	-	1070	3140	-	75.2	-	5	10
103	MF-30	G	758942	1031140	-	-728	-900	-	1157	2765	-	75	-	4	16
104	MF-31	GL	767575	1023218	-	-795	-980	-	1091	3042	-	75	-	6	5
105	MF-32	G	633253	1019631	-	-620	-694	-776	1100	2375	-	82.4	-	8	20
106	MF-33	G	632994	1015995	-	-642	-692	-800	1200	1470	-	82.4	-	8	12.5
107	MF-34	G	730735	1035717	-	-590	-700	-	800	3602	-	77	-	6	20
108	MF-35	GL	668237	970484	-	-610	-680	-850	1340	3078	-	84.6	-	10	20
109	MF-36B	G	761509	1025199	-	-746	-900	-	1021	2150	-	75	-	6	20
110	MF-37	G	658684	984784	-	-614	-726	-850	1260	1984	-	82	-	10	20
111	W-5441	L	611429	1005429	-	-625	-698	-818	992	-	-	-	-	-	25
112	W-5442	L	619011	977582	-	-644	-724	-759	997	-	-	-	-	-	6
113	WA-1151	G	676983	1039689	-	-530	-642	-770	849	5086	-	88	-	6	20
114	WA-1155	G	622340	1013336	-	-610	-704	-780	1176	3600	-	81	-	5	20
115	JENSON	L	738649	1056968	-	-735	-873	-1060	3600	-	-	-	-	-	15
116	W-14666	L	625110	1023543	-	-568	-648	-708	1200	-	-	-	-	-	32
117	W-13966	L	755121	1035559	-	-734	-904	-	1027	-	-	-	-	-	16
118	W-4212	L	622877	1015256	-	-655	-705	-830	1096	-	-	-	-	-	30
119	W-4160	L	635099	1007722	-	-552	-680	-	778	-	-	-	-	-	32
120	W-2861	L	710059	1034797	-	-568	-648	-712	958	-	-	-	-	-	20

TABLE A-2: Geologic and Water Quality Data from FAS Well Inventory in UEC (Continued)

MAP #	WELL NAME	DATA	STATE PLANARS		TOP OF FORMATION NGVD (FEET)				DEPTH	COND	CHLOR	TEMP	FLOW	DIAM	G.L. ELEV
			EAST (FEET)	NORTH (FEET)	HAWTH	OLIG	OCALA	AVON	FT B.L.S	M.S.	MG\L	°F	GPM	INCH	FT. NGVD
121	W-4399	L	740255	1029410	-	-798	-955	-	1057	-	-	-	-	-	12
122	W-14754	L	647747	983835	-	-712	-752	-	1220	-	-	-	-	-	28
123	W-15816	L	612766	1012299	-	-	-681	-	1019	-	-	-	-	-	15
124	W-15817	L	612528	1000080	-	-	-708	-	1007	-	-	-	-	-	15
125	W-15818	L	619642	978089	-	-695	-725	-	1013	-	-	-	-	-	15
126	BOG-22	G	642129	987248	-	-675	-775	-	997	-	-	-	-	-	25
127	BOG-23	G	636042	996113	-	-660	-790	-	1119	-	-	-	-	-	25
128	BOG-25	G	635629	984298	-	-674	-794	-	1042	-	-	-	-	-	24
129	BOG-26	G	632607	996001	-	-640	-746	-	1056	-	-	-	-	-	24
130	PBF-2	G	80931	953978	-	-980	-1085	-1197	1337	-	-	-	-	-	5
131	C.Stuart	GL	743799	1041044	-	-790	-945	-1055	1055	-	-	-	-	-	-
132	L-143	G	712219	1036121	-	-568	-648	-712	958	-	-	-	-	-	20
133	L-146	G	632365	1014781	-	-716	-737	-758	1155	-	-	-	-	-	40
134	L-841	G	743856	1031451	-	-856	-957	-	1057	-	-	-	-	-	10
135	JUP-R/O	GL	781929	945861	-	-1076	-1188	-1328	1500	-	-	-	-	-	12
						OKEECHOBEE WELL DATA									
136	OKF-2	G	593433	1166945	-	-342	-372	-438	686	1022	-	78.8	-	6	28
137	OKF-5	G	562688	1083782	-	-474	-550	-700	1181	7176	-	82.6	-	8	36
138	OKF-7	G	569511	1102271	-	-587	-619	-749	1050	504	-	76	-	8	51
139	OKF-6*	G	519921	1110295	-	-416	-470	-607	872	-	-	80	-	8	45

TABLE A-2: Geologic and Water Quality Data from FAS Well Inventory in UEC (Continued)

MAP #	WELL NAME	DATA	STATE PLANARS		TOP OF FORMATION NGVD (FEET)				DEPTH	COND	CHLOR	TEMP	FLOW	DIAM	G.L. ELEV
			EAST (FEET)	NORTH (FEET)	HAWTH	OLIG	OCALA	AVON	FT B.L.S	M.S.	MG\L	°F	GPM	INCH	FT. NGVD
140	OKF-16*	G	525882	1090608	-	-438	-552	-698	960	-	-	82	-	4	42
141	OKF-17*	G	526333	1091315	-	-518	-554	-683	983	782	-	79.4	-	6	42
142	OKF-18*	G	496486	1129273	-	-381	-421	-555	1015	480	-	80.1	-	8	55
143	OKF-19*	G	511261	1132809	-	-308	-364	-478	948	1576	-	79	-	8	66
144	OKF-29	G	551354	1129710	-	-367	-397	-533	1039	320	-	77	-	6	67
145	OKF-34*	G	492168	1162192	-	-305	-373	-505	1143	430	-	76.4	-	10	65
146	OKF-36*	G	491087	1159062	-	-249	-303	-419	896	1780	-	78.2	-	9	65
147	OKF-37*	G	500180	1144016	-	-420	-474	-600	1039	510	-	81.3	-	6	62
148	OKF-42*	GL	462326	114851	-	-341	-371	-565	1074	718	-	80.6	-	6	35
149	OKF-54*	G	525904	1197341	-	-250	-280	-380	973	648	-	76.3	-	12	70
150	HD-16	G	586715	1151683	-	-375	-390	-475	1000	-	-	-	-	-	6
151	HD-13	G	567690	1083782	-	-575	-590	-960	1200	-	-	-	-	-	5
152	W50	L	556412	1056005	-	-	-583	-	1175	-	-	-	-	-	10
153	W51	L	547833	1060033	-	-549	-619	-	810	-	-	-	-	-	5
154	W2844	L	547290	1061446	-	-568	-601	-	925	-	-	-	-	-	5
155	W2855	L	583047	1052011	-	-800	-865	-	1448	-	-	-	-	-	-
156	W2857*	L	510831	1056573	-	-424	-479	-	1110	-	-	-	-	-	-
157	W4480	L	556377	081248	-	-566	-577	-	825	-	-	-	-	-	-
158	W4572	L	554574	1080741	-	-540	-611	-645	725	-	-	-	-	-	-
159	W4699*	L	490986	1110493	-	-370	-490	-	1205	-	-	-	-	-	-

TABLE A-2: Geologic and Water Quality Data from FAS Well Inventory in UEC (Continued)

MAP #	WELL NAME	DATA	STATE PLANARS		TOP OF FORMATION NGVD (FEET)				DEPTH	COND	CHLOR	TEMP	FLOW	DIAM	G.L. ELEV
			EAST (FEET)	NORTH (FEET)	HAWTH	OLIG	OCALA	AVON	FT B.L.S	M.S.	MG\L	°F	GPM	INCH	FT. NGVD
160	W4896	L	598879	1037910	-	-453	-543	-	1313	-	-	-	-	-	-
161	W4984	L	569587	1058044	-	-419	-454	-650	1000	-	-	-	-	-	-
162	W5405	L	599652	1017212	-	-578	-631	-	1008	-	-	-	-	-	-
163	W6173*	L	529799	1037801	-	-	-396	-	772	-	-	-	-	-	-
164	W6175	L	557578	1187781		-	-385	-	764	-	-	-	-	-	-
165	W12541	L	593749	1108581	-	-514	-604	-	11277	-	-	-	-	-	-
166	W15813*	L	513069	1113523	-	-376	-406	-	10836	-	-	-	-	-	-
167	OKE-ASR	GL	569235	1052692	-	-560	-686	-820	1800	-	-	-	-	-	20
168	IR-320	G	716333	1178427	-	-655	-840	-890	943	-	-	-	-	-	3
169	IR-321	G	693982	1185280	-	-335	-410	-490	888	-	-	-	-	-	23
170	IR-322	G	715125	1185489	-	-562	-756	-	843	-	-	-	-	-	2
171	IR-326	G	699072	1193081	-	-363	-431	-476	703	-	-	-	-	-	11
172	IR-198	G	700048	1195712	-	-435	-526	-585	941	-	-	-	-	-	5
173	IR-333	G	674565	1201853	-	-310	-344	-472	746	-	-	-	-	-	21
174	IR-335	G	693429	1206585	-	-348	-464	-628	673	-	-	-	-	-	16
175	IR-336	G	686857	1208069	-	-350	-420	-530	620	-	-	-	-	-	21

* : denotes wells West of the study area boundaries, not portrayed in location map.

G: Geophysical logs available L:Lithologic logs available

APPENDIX B

MONTHLY WATER USE REPORTS SUBMITTED TO THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT

APPENDIX B
LIST OF TABLES

TABLE B-1: 1989 Monthly Agricultural Pumpage Reports

PERMIT/ FACILITY #	MODEL COORDS			1989 PUMPAGE IN MILLION GALLONS PER MONTH											
	LAY	ROW	COL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
5600035-1	2	12	17	1.32	1.62	1.19	2.34	2.95	1.28	0.75	1.52	1.40	1.26	1.62	1.52
5600035-2	2	11	17	1.32	1.62	1.19	2.34	2.95	1.28	0.75	1.52	1.40	1.26	1.62	1.52
5600035-3	2	11	17	1.32	1.62	1.19	2.34	2.95	1.28	0.75	1.52	1.40	1.26	1.62	1.52
5600035-4	2	11	16	1.32	1.62	1.19	2.34	2.95	1.28	0.75	1.52	1.40	1.26	1.62	1.52
5600035-5	2	10	16	1.32	1.62	1.19	2.34	2.95	1.28	0.75	1.52	1.40	1.26	1.62	1.52
5600035-6	2	11	17	1.32	1.62	1.19	2.34	2.95	1.28	0.75	1.52	1.40	1.26	1.62	1.52
5600035-7	2	10	17	1.32	1.62	1.19	2.34	2.95	1.28	0.75	1.52	1.40	1.26	1.62	1.52
5600035-8	2	10	17	1.32	1.62	1.19	2.34	2.95	1.28	0.75	1.52	1.40	1.26	1.62	1.52
5600035-9	2	10	17	1.32	1.62	1.19	2.34	2.95	1.28	0.75	1.52	1.40	1.26	1.62	1.52
5600035-10	2	10	17	1.32	1.62	1.19	2.34	2.95	1.28	0.75	1.52	1.40	1.26	1.62	1.52
5600035-11	2	9	17	1.32	1.62	1.19	2.34	2.95	1.28	0.75	1.52	1.40	1.26	1.62	1.52
5600035-12	2	9	16	1.32	1.62	1.19	2.34	2.95	1.28	0.75	1.52	1.40	1.26	1.62	1.52
5600035-13	2	9	17	1.32	1.62	1.19	2.34	2.95	1.28	0.75	1.52	1.40	1.26	1.62	1.52
5600035-14	2	8	17	1.32	1.62	1.19	2.34	2.95	1.28	0.75	1.52	1.40	1.26	1.62	1.52
5600071-1	2	24	21	2.00	0.00	0.00	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600071-2	2	24	21	2.00	0.00	0.00	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600071-3	2	24	21	2.00	0.00	0.00	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600071-4	2	24	21	2.00	0.00	0.00	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600096-1	2	14	24	3.60	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.55
5600096-2	2	14	24	3.60	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.55
5600096-3	2	14	24	3.60	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.55
5600096-4	2	13	24	3.60	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.55
5600096-5	2	13	23	3.60	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.55
5600096-6	2	14	23	3.60	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.55
5600096-7	2	14	23	3.60	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.55
5600096-8	2	14	23	3.60	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.55
5600096-9	2	14	23	3.60	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.55
5600096-10	2	14	23	3.60	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.55
5600096-11	2	14	23	3.60	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.55
5600096-12	2	13	23	3.60	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.55
5600096-13	2	13	22	3.60	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.55
5600096-14	2	14	22	3.60	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.55

TABLE B-1: 1989 Monthly Agricultural Pumpage Reports (Continued)

PERMIT/ FACILITY #	MODEL COORDS			1989 PUMPAGE IN MILLION GALLONS PER MONTH											
	LAY	ROW	COL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
5600096-15	2	14	22	3.60	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.55
5600096-16	2	14	22	3.60	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.55
5600096-17	2	14	21	3.60	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.55
5600096-18	2	14	21	3.60	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.55
5600096-19	2	14	21	3.60	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.55
5600096-20	2	13	21	3.60	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.55
5600096-21	2	13	24	3.60	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.55
5600098-7	2	11	13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600098-10	2	8	13	0.07	0.07	0.06	4.22	15.79	12.67	0.00	0.00	0.00	0.00	0.00	2.30
5600098-11	2	9	13	0.07	0.07	0.06	4.22	15.79	12.67	0.00	0.00	0.00	0.00	0.00	2.30
5600098-12	2	9	13	0.03	0.07	0.06	4.22	12.98	4.61	0.00	0.00	0.00	0.00	0.00	0.00
5600098-13	2	9	13	0.00	0.00	14.40	4.22	4.43	4.61	0.00	0.00	0.00	0.00	0.00	0.00
5600098-13A	2	9	13	7.20	0.00	0.00	10.56	11.04	11.52	0.00	0.00	0.00	0.00	0.00	9.21
5600098-14	2	10	13	0.00	0.00	0.00	0.00	11.04	11.52	0.00	0.00	0.00	0.00	0.00	9.21
5600098-14A	2	9	13	2.88	0.00	14.40	10.56	11.04	11.52	0.00	0.00	0.00	0.00	0.00	9.21
5600098-15	2	10	13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600098-16	2	11	13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.88
5600098-18	2	11	13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.88
5600098-19	2	11	13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.20
5600098-20	2	12	13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.88
5600101-1	2	10	30	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46
5600116-1	2	27	16	0.02	0.03	0.07	0.27	1.17	0.08	0.01	0.00	0.00	0.00	0.03	0.00
5600116-2	2	27	17	0.01	0.02	0.04	0.14	0.58	0.04	0.00	0.00	0.00	0.00	0.01	0.00
5600116-3	2	28	15	0.02	0.03	0.07	0.27	1.17	0.08	0.01	0.00	0.00	0.00	0.03	0.00
5600116-4	2	28	16	0.03	0.05	0.11	0.41	1.75	0.12	0.01	0.00	0.00	0.00	0.04	0.00
5600116-5	2	28	17	0.03	0.05	0.11	0.41	1.75	0.12	0.01	0.00	0.00	0.00	0.04	0.00
5600116-6A	2	29	16	0.03	0.05	0.11	0.41	1.75	0.12	0.01	0.00	0.00	0.00	0.04	0.00
5600116-7	2	29	17	0.03	0.05	0.11	0.41	1.75	0.12	0.01	0.00	0.00	0.00	0.04	0.00
5600116-8	2	30	16	0.01	0.02	0.04	0.14	0.58	0.04	0.00	0.00	0.00	0.00	0.01	0.00
5600116-9	2	30	17	0.02	0.03	0.07	0.27	1.17	0.08	0.01	0.00	0.00	0.00	0.03	0.00
5600116-10	2	31	17	0.01	0.02	0.04	0.14	0.58	0.04	0.00	0.00	0.00	0.00	0.01	0.00
5600116-11	2	32	17	0.01	0.02	0.04	0.14	0.58	0.04	0.00	0.00	0.00	0.00	0.01	0.00
5600116-12	2	33	17	0.01	0.02	0.04	0.14	0.58	0.04	0.00	0.00	0.00	0.00	0.01	0.00

TABLE B-1: 1989 Monthly Agricultural Pumpage Reports (Continued)

PERMIT/ FACILITY #	MODEL COORDS			1989 PUMPAGE IN MILLION GALLONS PER MONTH											
	LAY	ROW	COL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
5600116-13	2	34	18	0.01	0.02	0.04	0.14	0.58	0.04	0.00	0.00	0.00	0.00	0.01	0.00
5600147-1	2	15	23	0.00	0.00	0.00	0.00	0.00	1.30	0.00	0.00	3.02	0.00	0.00	0.00
5600147-2	2	15	23	0.00	0.00	0.00	0.00	0.00	1.30	0.00	0.00	3.02	0.00	0.00	0.00
5600147-3	2	15	23	0.00	0.00	0.00	0.00	0.00	1.30	0.00	0.00	3.02	0.00	0.00	0.00
5600147-4	2	15	23	0.00	0.00	0.00	0.00	0.00	1.30	0.00	0.00	3.02	0.00	0.00	0.00
5600417-1	2	17	27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600417-2	2	17	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600417-3	2	17	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600428-16	2	30	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600428-19	2	28	27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600428-21	2	27	26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600428-22	2	27	26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600428-23	2	27	24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600428-25	2	27	26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600428-18	2	30	27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600473-1	2	10	14	6.39	6.80	0.00	0.24	8.76	3.45	0.60	0.00	0.00	0.00	1.98	3.11
5600473-3	2	11	14	6.39	6.80	0.00	0.24	8.76	3.45	0.60	0.00	0.00	0.00	1.98	3.11
5600473-4	2	12	14	6.39	6.80	0.00	0.24	8.76	3.45	0.60	0.00	0.00	0.00	1.98	3.11
5600473-5	2	12	15	6.39	6.80	0.00	0.24	8.76	3.45	0.60	0.00	0.00	0.00	1.98	3.11
5600473-6	2	12	14	6.39	6.80	0.00	0.24	8.76	3.45	0.60	0.00	0.00	0.00	1.98	3.11
5600473-7	2	12	16	6.39	6.80	0.00	0.24	8.76	3.45	0.60	0.00	0.00	0.00	1.98	3.11
5600473-8	2	12	16	6.39	6.80	0.00	0.24	8.76	3.45	0.60	0.00	0.00	0.00	1.98	3.11
5600473-9	2	14	16	6.39	6.80	0.00	0.24	8.76	3.45	0.60	0.00	0.00	0.00	1.98	3.11
5600473-10	2	14	16	6.39	6.80	0.00	0.24	8.76	3.45	0.60	0.00	0.00	0.00	1.98	3.11
5600473-11	2	14	17	6.39	6.80	0.00	0.24	8.76	3.45	0.60	0.00	0.00	0.00	1.98	3.11
5600473-12	2	12	17	6.39	6.80	0.00	0.24	8.76	3.45	0.60	0.00	0.00	0.00	1.98	3.11
5600473-13	2	15	17	6.39	6.80	0.00	0.24	8.76	3.45	0.60	0.00	0.00	0.00	1.98	3.11
5600473-14	2	15	17	6.39	6.80	0.00	0.24	8.76	3.45	0.60	0.00	0.00	0.00	1.98	3.11
5600473-16	2	13	17	6.39	6.80	0.00	0.24	8.76	3.45	0.60	0.00	0.00	0.00	1.98	3.11
5600473-17	2	15	18	6.39	6.80	0.00	0.24	8.76	3.45	0.60	0.00	0.00	0.00	1.98	3.11
5600473-18	2	15	16	6.39	6.80	0.00	0.24	8.76	3.45	0.60	0.00	0.00	0.00	1.98	3.11
5600473-19	2	15	18	6.39	6.80	0.00	0.24	8.76	3.45	0.60	0.00	0.00	0.00	1.98	3.11
5600473-20	2	15	16	6.39	6.80	0.00	0.24	8.76	3.45	0.60	0.00	0.00	0.00	1.98	3.11

TABLE B-1: 1989 Monthly Agricultural Pumpage Reports (Continued)

PERMIT/ FACILITY #	MODEL COORDS			1989 PUMPAGE IN MILLION GALLONS PER MONTH											
	LAY	ROW	COL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
5600473-21	2	15	16	6.39	6.80	0.00	0.24	8.76	3.45	0.60	0.00	0.00	0.00	1.98	3.11
5600473-22	2	15	16	6.39	6.80	0.00	0.24	8.76	3.45	0.60	0.00	0.00	0.00	1.98	3.11
5600473-23	2	12	14	6.39	6.80	0.00	0.24	8.76	3.45	0.60	0.00	0.00	0.00	1.98	3.11
5600473-24	2	12	14	6.39	6.80	0.00	0.24	8.76	3.45	0.60	0.00	0.00	0.00	1.98	3.11
5600473-25	2	11	14	6.39	6.80	0.00	0.24	8.76	3.45	0.60	0.00	0.00	0.00	1.98	3.11
5600473-26	2	10	14	6.39	6.80	0.00	0.24	8.76	3.45	0.60	0.00	0.00	0.00	1.98	3.11
5600473-27	2	12	15	6.39	6.80	0.00	0.24	8.76	3.45	0.60	0.00	0.00	0.00	1.98	3.11
5600473-28	2	16	16	6.39	6.80	0.00	0.24	8.76	3.45	0.60	0.00	0.00	0.00	1.98	3.11
5600473-29	2	16	16	6.39	6.80	0.00	0.24	8.76	3.45	0.60	0.00	0.00	0.00	1.98	3.11
5600473-30	2	15	17	6.39	6.80	0.00	0.24	8.76	3.45	0.60	0.00	0.00	0.00	1.98	3.11
5600473-31	2	13	17	6.39	6.80	0.00	0.24	8.76	3.45	0.60	0.00	0.00	0.00	1.98	3.11
5600473-32	2	13	17	6.39	6.80	0.00	0.24	8.76	3.45	0.60	0.00	0.00	0.00	1.98	3.11
4300030-3	2	34	43	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21
4300030-4	2	34	43	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21
4300030-5	2	35	43	3.13	3.10	3.45	3.59	4.08	4.00	3.48	3.69	4.76	3.82	3.86	3.33
4300030-7	2	35	43	3.13	3.10	3.45	3.59	4.08	4.00	3.48	3.69	4.76	3.82	3.86	3.33
4300030-9	2	35	43	3.13	3.10	3.45	3.59	4.08	4.00	3.48	3.69	4.76	3.82	3.86	3.33
4300030-10	2	35	43	3.13	3.10	3.45	3.59	4.08	4.00	3.48	3.69	4.76	3.82	3.86	3.33
4300030-11	2	35	43	3.13	3.10	3.45	3.59	4.08	4.00	3.48	3.69	4.76	3.82	3.86	3.33
4300030-12	2	35	43	3.13	3.10	3.45	3.59	4.08	4.00	3.48	3.69	4.76	3.82	3.86	3.33
4300030-13	2	35	43	3.13	3.10	3.45	3.59	4.08	4.00	3.48	3.69	4.76	3.82	3.86	3.33
4300031-7	2	35	40	13.82	13.82	13.82	13.82	13.82	13.82	0.00	0.00	0.00	0.00	13.82	13.82
430082	2	32	39	0.00	0.00	0.96	0.83	0.72	0.00	0.60	0.00	0.00	0.00	0.00	0.00
4300140-1	2	48	46	3.95	116.62	0.09	0.12	0.14	3.34	1.94	0.00	0.00	0.00	0.00	0.00
4300260-1	2	44	24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.40
4700003-1	2	31	1	5.92	1.26	0.00	1.97	3.29	3.95	2.63	0.00	0.00	1.95	3.95	3.74
4700007-1	2	12	8	0.58	4.45	6.84	8.84	20.75	14.70	3.67	0.00	2.45	0.82	9.88	11.80
4700008-7	2	12	7	0.00	9.44	3.39	4.21	9.48	6.55	2.57	0.01	5.46	1.40	6.43	12.60
4700008-2	2	12	8	0.00	9.48	3.35	4.60	9.01	7.02	3.74	1.64	2.30	1.68	6.36	6.43
4700017-1	2	11	7	9.88	99.18	7.12	5.89	13.73	8.20	3.21	1.64	1.65	1.93	8.94	5.72
4700082-4	2	19	3	22.66	20.47	22.66	21.93	22.66	21.93	21.93	21.93	21.93	21.93	21.93	21.93
4700082-2	2	17	3	22.66	20.47	22.66	21.93	22.66	21.93	21.93	21.93	21.93	21.93	21.93	21.93
4700082-3	2	18	1	22.66	20.47	22.66	21.93	22.66	21.93	21.93	1.93	21.93	21.93	21.93	21.93

TABLE B-2: 1990 Monthly Agricultural Pumpage Reports

PERMIT/ FACILITY #	MODEL COORDS			1990 PUMPAGE IN MILLION GALLONS PER MONTH						
	LAY	ROW	COL	JAN	FEB	MAR	APR	MAY	JUN	JUL
5600035/1	2	12	17	1.32	1.62	1.19	2.34	2.95	1.28	0.75
5600035/2	2	11	17	1.32	1.62	1.19	2.34	2.95	1.28	0.75
5600035/3	2	11	17	1.32	1.62	1.19	2.34	2.95	1.28	0.75
5600035/4	2	11	16	1.32	1.62	1.19	2.34	2.95	1.28	0.75
5600035/5	2	10	16	1.32	1.62	1.19	2.34	2.95	1.28	0.75
5600035/6	2	11	17	1.32	1.62	1.19	2.34	2.95	1.28	0.75
5600035/7	2	10	17	1.32	1.62	1.19	2.34	2.95	1.28	0.75
5600035/8	2	10	17	1.32	1.62	1.19	2.34	2.95	1.28	0.75
5600035/9	2	10	17	1.32	1.62	1.19	2.34	2.95	1.28	0.75
5600035/10	2	10	17	1.32	1.62	1.19	2.34	2.95	1.28	0.75
5600035/11	2	9	17	1.32	1.62	1.19	2.34	2.95	1.28	0.75
5600035/12	2	9	16	1.32	1.62	1.19	2.34	2.95	1.28	0.75
5600035/13	2	9	17	1.32	1.62	1.19	2.34	2.95	1.28	0.75
5600035/14	2	8	17	1.32	1.62	1.19	2.34	2.95	1.28	0.75
5600071/1	2	24	21	2.00	0.00	0.00	2.00	2.00	0.00	0.00
5600071/2	2	24	21	2.00	0.00	0.00	2.00	2.00	0.00	0.00
5600071/3	2	24	21	2.00	0.00	0.00	2.00	2.00	0.00	0.00
5600071/4	2	24	21	2.00	0.00	0.00	2.00	2.00	0.00	0.00
5600096/1	2	14	24	0.00	0.00	0.75	0.00	0.00	0.00	0.00
5600096/2	2	14	24	0.00	0.00	0.75	0.00	0.00	0.00	0.00
5600096/3	2	14	24	0.00	0.00	0.75	0.00	0.00	0.00	0.00
5600096/4	2	13	24	0.00	0.00	0.75	0.00	0.00	0.00	0.00
5600096/5	2	13	23	0.00	0.00	0.75	0.00	0.00	0.00	0.00
5600096/6	2	14	23	0.00	0.00	0.75	0.00	0.00	0.00	0.00
5600096/7	2	14	23	0.00	0.00	0.75	0.00	0.00	0.00	0.00
5600096/8	2	14	23	0.00	0.00	0.75	0.00	0.00	0.00	0.00
5600096/9	2	14	23	0.00	0.00	0.75	0.00	0.00	0.00	0.00
5600096/10	2	14	23	0.00	0.00	0.75	0.00	0.00	0.00	0.00
5600096/11	2	14	23	0.00	0.00	0.75	0.00	0.00	0.00	0.00
5600096/12	2	13	23	0.00	0.00	0.75	0.00	0.00	0.00	0.00
5600096/13	2	13	22	0.00	0.00	0.75	0.00	0.00	0.00	0.00
5600096/14	2	14	22	0.00	0.00	0.75	0.00	0.00	0.00	0.00

TABLE B-2: 1990 Monthly Agricultural Pumpage Reports (Continued)

PERMIT/ FACILITY #	MODEL COORDS			1990 PUMPAGE IN MILLION GALLONS PER MONTH						
	LAY	ROW	COL	JAN	FEB	MAR	APR	MAY	JUN	JUL
5600096/15	2	14	22	0.00	0.00	0.75	0.00	0.00	0.00	0.00
5600096/16	2	14	22	0.00	0.00	0.75	0.00	0.00	0.00	0.00
5600096/17	2	14	21	0.00	0.00	0.75	0.00	0.00	0.00	0.00
5600096/18	2	14	21	0.00	0.00	0.75	0.00	0.00	0.00	0.00
5600096/19	2	14	21	0.00	0.00	0.75	0.00	0.00	0.00	0.00
5600096/20	2	13	21	0.00	0.00	0.75	0.00	0.00	0.00	0.00
5600096/21	2	13	24	0.00	0.00	0.75	0.00	0.00	0.00	0.00
5600098/7	2	11	13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600098/10	2	8	13	0.07	0.07	0.06	4.22	15.79	12.67	0.00
5600098/11	2	9	13	0.07	0.07	0.06	4.22	15.79	12.67	0.00
5600098/12	2	9	13	0.03	0.07	0.06	4.22	12.98	4.61	0.00
5600098/13	2	9	13	0.00	0.00	14.40	4.22	4.43	4.61	0.00
5600098/13a	2	9	13	7.20	0.00	0.00	10.56	11.04	11.52	0.00
5600098/14	2	10	13	0.00	0.00	0.00	0.00	11.04	11.52	0.00
5600098/14a	2	9	13	2.88	0.00	14.40	10.56	11.04	11.52	0.00
5600098/15	2	10	13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600098/16	2	11	13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600098/18	2	11	13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600098/19	2	11	13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600098/20	2	12	13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600101/1	2	10	30	11.88	11.88	11.88	3.46	3.46	3.46	3.46
5600116/1	2	27	16	0.02	0.03	0.07	0.27	1.17	0.08	0.01
5600116/2	2	27	17	0.01	0.02	0.04	0.14	0.58	0.04	0.00
5600116/3	2	28	15	0.02	0.03	0.07	0.27	1.17	0.08	0.01
5600116/4	2	28	16	0.02	0.05	0.11	0.41	1.75	0.12	0.01
5600116/5	2	28	17	0.02	0.05	0.11	0.41	1.75	0.12	0.01
5600116/6	2	29	16	0.02	0.05	0.11	0.41	1.75	0.12	0.01
5600116/7	2	29	17	0.02	0.05	0.11	0.41	1.75	0.12	0.01
5600116/8	2	30	16	0.01	0.02	0.04	0.14	0.58	0.04	0.00
5600116/9	2	30	17	0.02	0.03	0.07	0.27	1.17	0.08	0.01
5600116/10	2	31	17	0.01	0.02	0.04	0.14	0.58	0.04	0.00
5600116/11	2	32	17	0.01	0.02	0.04	0.14	0.58	0.04	0.00
5600116/12	2	33	17	0.01	0.02	0.04	0.14	0.58	0.04	0.00
5600116/13	2	34	18	0.01	0.02	0.04	0.14	0.58	0.04	0.00

TABLE B-2: 1990 Monthly Agricultural Pumpage Reports (Continued)

PERMIT/ FACILITY #	MODEL COORDS			1990 PUMPAGE IN MILLION GALLONS PER MONTH						
	LAY	ROW	COL	JAN	FEB	MAR	APR	MAY	JUN	JUL
5600147/1	2	15	23	0.00	0.00	0.78	0.00	0.00	1.30	0.00
5600147/2	2	15	23	0.00	0.00	0.78	0.00	0.00	1.30	0.00
5600147/3	2	15	23	0.00	0.00	0.78	0.00	0.00	1.30	0.00
5600147/4	2	15	23	0.00	0.00	0.78	0.00	0.00	1.30	0.00
5600417/1	2	17	27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600417/2	2	17	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600417/3	2	17	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600417/4	2	17	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600417/5	2	17	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600417/6	2	17	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600417/7	2	17	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600417/8	2	17	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600417/9	2	17	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600417/10	2	17	27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600417/11	2	17	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600417/12	2	17	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600417/13	2	17	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600417/14	2	17	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600428/16	2	30	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600428/19	2	28	27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600428/21	2	27	26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600428/22	2	27	26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600428/23	2	27	24	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600428/24	2	27	26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600428/25	2	30	27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600428/26	2	33	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600428/27	2	33	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600473/1	2	10	14	1.38	0.49	1.38	0.24	15.74	4.54	1.21
5600473/2	2	11	14	1.38	0.49	1.38	0.24	15.74	4.54	1.21
5600473/3	2	12	14	1.38	0.49	1.38	0.24	15.74	4.54	1.21
5600473/4	2	12	15	1.38	0.49	1.38	0.24	15.74	4.54	1.21
5600473/5	2	12	14	1.38	0.49	1.38	0.24	15.74	4.54	1.21
5600473/6	2	12	16	1.38	0.49	1.38	0.24	15.74	4.54	1.21
5600473/7	2	12	16	1.38	0.49	1.38	0.24	15.74	4.54	1.21

TABLE B-2: 1990 Monthly Agricultural Pumpage Reports (Continued)

PERMIT/ FACILITY #	MODEL COORDS			1990 PUMPAGE IN MILLION GALLONS PER MONTH						
	LAY	ROW	COL	JAN	FEB	MAR	APR	MAY	JUN	JUL
5600473/8	2	14	16	1.38	0.49	1.38	0.24	15.74	4.54	1.21
5600473/9	2	14	16	1.38	0.49	1.38	0.24	15.74	4.54	1.21
5600473/10	2	14	17	1.38	0.49	1.38	0.24	15.74	4.54	1.21
5600473/11	2	12	17	1.38	0.49	1.38	0.24	15.74	4.54	1.21
5600473/12	2	15	17	1.38	0.49	1.38	0.24	15.74	4.54	1.21
5600473/13	2	15	17	1.38	0.49	1.38	0.24	15.74	4.54	1.21
5600473/14	2	13	17	1.38	0.49	1.38	0.24	15.74	4.54	1.21
5600473/15	2	15	18	1.38	0.49	1.38	0.24	15.74	4.54	1.21
5600473/16	2	15	16	1.38	0.49	1.38	0.24	15.74	4.54	1.21
5600473/17	2	15	18	1.38	0.49	1.38	0.24	15.74	4.54	1.21
5600473/18	2	15	16	1.38	0.49	1.38	0.24	15.74	4.54	1.21
5600473/19	2	15	16	1.38	0.49	1.38	0.24	15.74	4.54	1.21
5600473/20	2	15	16	1.38	0.49	1.38	0.24	15.74	4.54	1.21
5600473/21	2	12	14	1.38	0.49	1.38	0.24	15.74	4.54	1.21
5600473/22	2	12	14	1.38	0.49	1.38	0.24	15.74	4.54	1.21
5600473/23	2	11	14	1.38	0.49	1.38	0.24	15.74	4.54	1.21
5600473/24	2	10	14	1.38	0.49	1.38	0.24	15.74	4.54	1.21
5600473/25	2	12	15	1.38	0.49	1.38	0.24	15.74	4.54	1.21
5600473/26	2	16	16	1.38	0.49	1.38	0.24	15.74	4.54	1.21
5600473/27	2	16	16	1.38	0.49	1.38	0.24	15.74	4.54	1.21
5600473/28	2	15	17	1.38	0.49	1.38	0.24	15.74	4.54	1.21
5600473/29	2	13	17	1.38	0.49	1.38	0.24	15.74	4.54	1.21
5600473/30	2	13	17	1.38	0.49	1.38	0.24	15.74	4.54	1.21
4300030/1	2	34	43	4.21	4.21	4.21	4.21	4.21	4.21	4.21
4300030/2	2	34	43	4.21	4.21	4.21	4.21	4.21	4.21	4.21
4300030/3	2	35	43	3.13	3.10	3.45	3.59	4.08	4.00	3.48
4300030/4	2	35	43	3.13	3.10	3.45	3.59	4.08	4.00	3.48
4300030/5	2	35	43	3.13	3.10	3.45	3.59	4.08	4.00	3.48
4300030/6	2	35	43	3.13	3.10	3.45	3.59	4.08	4.00	3.48
4300030/7	2	35	43	3.13	3.10	3.45	3.59	4.08	4.00	3.48
4300030/8	2	35	43	3.13	3.10	3.45	3.59	4.08	4.00	3.48
4300030/9	2	35	43	3.13	3.10	3.45	3.59	4.08	4.00	3.48
4300031/7	2	35	40	13.82	13.82	7.09	13.82	13.82	13.82	0.00
4300082/1	2	32	39	0.00	0.00	1.00	1.00	1.00	0.00	0.60

TABLE B-2: 1990 Monthly Agricultural Pumpage Reports (Continued)

PERMIT/ FACILITY #	MODEL COORDS			1990 PUMPAGE IN MILLION GALLONS PER MONTH						
	LAY	ROW	COL	JAN	FEB	MAR	APR	MAY	JUN	JUL
4300140/1	2	48	46	0.00	0.00	0.00	0.12	0.14	3.34	1.94
4300260/1	2	44	24	14.40	14.40	14.40	14.40	0.00	0.00	0.00
4700003/1	2	31	1	5.92	0.00	0.00	1.97	3.29	3.95	2.63
4700007/1	2	12	8	0.58	4.45	6.84	8.84	20.75	14.70	3.67
4700008/1	2	12	7	0.00	2.18	5.42	4.21	9.48	6.55	2.57
4700008/2	2	12	8	0.31	2.34	5.42	4.60	9.01	7.02	3.74
4700017/1	2	11	7	0.00	0.02	0.02	5.89	13.73	8.20	3.21
4700082/1	2	19	3	22.66	22.66	22.66	21.93	22.66	21.93	21.93
4700082/2	2	17	3	22.66	22.66	22.66	21.93	22.66	21.93	21.93
4700082/3	2	18	1	22.66	22.66	22.66	21.93	22.66	21.93	21.93

TABLE B-3: 1989 Monthly Public Water Supply Pumpage Reports

SFWMD PERMIT #	LAY	ROW	COL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
				PUBLIC WATER SUPPLY REPORTS 1989—PUMPAGE IN MILLION GALLONS PER MONTH											
4300130	3	30	41	0.00	0.00	1.40	1.13	1.05	0.00	1.13	0.00	0.00	0.00	0.00	0.00
4300328	3	32	42	2.79	3.96	0.00	3.53	2.86	2.57	3.64	3.02	0.00	2.88	5.34	0.00
4300067	2	36	43	0.00	0.00	0.00	0.00	4.68	2.01	2.01	1.30	0.00	0.00	0.00	0.00
5600085	2	16	31	10.35	8.40	13.29	11.78	12.48	14.11	12.80	13.52	13.66	12.93	13.75	15.59
5600300	2	24	39	0.30	0.30	0.30	0.30	0.29	0.26	0.25	0.45	0.22	0.25	0.42	0.50
*456-1954	2	26	39	1.00	1.00	1.00	1.00	1.92	1.57	1.78	1.67	1.45	1.66	1.73	1.73
*456-5007	2	27	40	1.00	1.00	1.00	1.00	4.31	4.00	4.01	2.67	1.96	1.07	1.38	1.62
*456-4001	2	26	40	—	—	—	—	0.66	0.51	0.60	0.66	0.56	0.85	0.84	0.86
4300362-1	2	10	34	3.38	3.36	3.78	0.00	2.60	3.15	3.12	2.79	3.12	2.90	2.75	2.81
6100089-1	2	1	28	41.46	41.46	41.46	41.46	41.46	41.46	41.46	41.46	41.46	41.46	41.46	41.46
6100089-2	2	1	27	41.46	41.46	41.46	41.46	41.46	41.46	41.46	41.46	41.46	41.46	41.46	41.46
6100089-3	2	2	28	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00
6100089-4	2	2	28	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.45
61-00093	2	3	24	4.86	4.86	4.86	4.86	4.86	4.86	4.86	4.86	4.86	4.86	4.86	4.86
61-00099	2	4	22	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
61-00129	2	3	28	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40
61-00514	2	4	22	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90

* : FDER permit number.

TABLE B-4: 1990 Monthly Public Water Supply Pumpage Reports

				PUBLIC WATER SUPPLY REPORTS 1990—PUMPAGE IN MILLION GALLONS PER MONTH											
SFWMD PERMIT #	LAY	ROW	COL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4300130	3	30	41	1.31	1.31	1.43	1.34	9.90	7.69	7.47	0.86	–	–	–	–
4300030	2	34	43	1.77	1.70	2.10	1.58	1.38	1.19	1.27	–	–	–	–	–
4300030	2	35	43	1.77	1.70	2.10	1.58	2.86	1.19	1.27	–	–	–	–	–
4300328	2	32	42	2.79	3.96	5.46	4.37	3.22	2.57	3.64	3.02	0.00	2.88	5.34	0.00
4300067	2	36	43	0.00	0.00	0.00	0.90	1.00	0.80	0.50	0.00	0.00	0.00	0.00	0.00
5600085	2	16	31	10.35	8.33	13.29	11.78	12.48	14.11	12.80	–	–	–	–	–
5600300	2	24	39	0.45	0.48	0.44	0.44	0.40	0.41	0.40	0.47	0.40	0.40	0.40	0.45
* 456-1954	2	26	39	2.21	2.45	2.63	1.96	1.47	1.47	1.68	1.62	1.26	1.70	1.83	2.43
* 456-5007	2	27	40	1.52	1.69	1.23	1.23	0.77	0.77	0.92	0.76	0.46	0.92	1.00	1.98
* 456-4001	2	26	40	1.19	1.07	1.27	1.14	0.84	0.65	0.70	0.78	0.79	1.24	1.03	1.07
4300362-1	2	10	34	3.67	3.84	4.33	3.90	3.65	3.15	3.12	–	–	–	–	–
6100089-1	2	1	28	41.46	41.46	41.46	41.46	41.46	41.46	41.46	41.46	–	–	–	–
6100089-2	2	1	27	41.46	41.46	41.46	41.46	41.46	41.46	41.46	41.46	–	–	–	–
6100089-3	2	2	28	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	–	–	–	–
6100089-4	2	2	28	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.45	–	–	–	–
6100093	2	3	24	4.86	4.86	4.86	4.86	4.86	4.86	4.86	4.86	4.86	4.86	4.86	4.86
6100099	2	4	22	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
6100129	2	3	28	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40
6100514	2	4	22	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90

* : FDER permit number.

APPENDIX C

WATER USE PERMIT INFORMATION

APPENDIX C

INTRODUCTION

This appendix contains information on individual water use permits issued by the Water Use Division, Regulation Department, South Florida Water Management District. The one exception is the Indian River water use permits which were issued by the St. John's River Water Management District. The information on these spreadsheets was used to compile well withdrawal data used in this model.

Permits issued through January 1991 are included in this appendix. The information is organized into five spreadsheets. The five sections are organized by county. They are listed in the following order: St. Lucie, Martin, Okeechobee, Indian River and Osceola counties.

APPENDIX C
WATER USE DATA
LIST OF SPREADSHEETS BY COUNTY

Key to the Codes

AN.ALL. = Annual Permitted Allocation
ALL.UNT. = Annual Allocation Units
01 = MGD
02 = MGM
03 = MGY
04 = AC-FT
MAXMO = Maximum Monthly Permitted Allocation
01 = MGD
02 = MGM
03 = AC-FT
CO = County Code (from permit number)
DATE ISS = Date Permit Issued (mo/yr)
USE TYPE = AG,IND,GLF,PWS,COM,REC
SRC = Source (SW,GW, BOTH)
NO.WLS. = Number of ACTIVE permitted wells
SWPMPS = Number of Surface Water Pumps

DEVNO. = Development Number(for projected uses only)
AQ. = Aquifer
01 = Water Table
02 = Surficial (Semi-confined)
03 = Lower Tamiami
04 = Sandstone
05 = mid-Hawthorn
06 = lower Hawthorn
07 = Suwannee
08 = Floridan
09 = Biscayne
CROP TYPE = Blaney-Criddle Code
11 = Alfalfa
12 = Avacado
13 = Citrus
14 = Grapes
15 = Turf
16 = Suger Beet
20 = Pasture
51 = Dry Beans
52 = Green Beans
53 = Grain Corn
54 = Silage Corn
55 = Sweet Corn
56 = Melons
57 = Peas
58 = Potato
59 = Soybeans
60 = Tomato
61 = Small Vegetables
5 or 70 = Nursery
RAINST = Rain Station Code Number
1 = NAPLES
2 = FT. MYERS
3 = WEST PALM BEACH
4 = STUART
5 = FT. LAUDERDALE
6 = KISSIMMEE
7 = MELBOURNE
8 = ORLANDO
9 = TITUSVILLE
10 = FELLSMERE
11 = FT. PIERCE
12 = OKEECHOBEE
13 = AVON PARK
14 = MOORE HAVEN
15 = LABELLE
16 = BELLE GLADE
17 = LOXAHATCHEE
18 = JUPITER
21 = TAMIAMI 4
22 = HOMESTEAD
23 = POMPANO BEACH
24 = INDIANTOWN
25 = HYPOLUXO
26 = BIG CYPRESS
27 = EVERGLADES
28 = HIALEAH
29 = LAKE PLACID
30 = MERRIT ISLAND
31 = VERO BEACH

Key to the Codes (Continued)

```
LOS = Level of Service (leave blank)

STS = Status
         01 = Existing
         02 = Proposed
         03 = Stand By/Backup
         04 = To Be Plugged
DPTH CODE = Datum for Elevations
         01 = NGVD
         02 = Land Surface
PMPINT = Depth to Pump Intake (Wells Only)
PUMP TYPE
         01 = Centrifical (suction)
         02 = Lift (turbine, jet, submersible)
         03 = Unknown
PUMP CAP. = Capacity in GPM (SW & GW Facilities)
         01 = Unknown
MTR? = Is use Metered by Volume or Power
       Consumption and Reported to the District?
         Y = Yes
         N = No
YPLNR = North Planar Coordinate
XPLNR = East Planar Coordinate
```

St. Lucie County

Water Use Spreadsheets

St. Lucie County

```
                                          WATER USE SPREADSHEET ST.LUCIE COUNTY FLA.

==========================================================================================================
LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
==========================================================================================================
                                                                                                         CROP SOIL  RAIN    IRR   IRR
PERMIT    AN.               ALL  MAX    NO.    DATE  USE SRCNO.    SW
NO.       ALL.              UNT  NO.    UTS CO  ISS.  TYPE   WLS.   PMPS   OWNER                      CO  PERMIT NO.  DEV NO.  AQTYPE TYPE  ST    ACRES  EFF
==========================================================================================================

LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
==========================================================================================================
PERMIT    FACILITY     QUAD.  WELL      DPTH          PMP PUM PUMP
NO.       NUMBER       NO. STSDIA.      COD  TD   CD  INT TYP CAP.  MTR?  XPLNR   YPLNR  SRC  AQ  COMMENTS
==========================================================================================================
==========================================================================================================
Surface water pumps assigned aquifer code 5 for convenience
of programming

 5600001          615      03      171 02    56 12/74 REC.BOT      5 3   SAVANNAS RECREATION AREA          56                    02   15    .4    11      640 0.50
          5600001-1   073 01     2.00 02    ?     ?      02      75 N    723910 1110607 GW  02 Cap. estimated
          5600001-2   073 01     2.00 02    ?     ?      02      75 N    723816 1111212 GW  02         "
          5600001-3   073 01     2.00 02    ?     ?      02      75 N    723042 1111617 GW  02         "
          5600001-4   073 04     6.00 02    ?     ?      FLO    250 N    723635 1111413 GW  08 PLUGGED, WAS POT.RUN WELL
          5600001-5   073 04     6.00 02    ?     ?      FLO    250 N    723038 1112425 GW  08 PLUGGED
          5600001-1P  073 02          01                      10000 Y    705100 1139994 SW   5 THREE SW PUMPS ROUTE WATER
          5600001-2P  073 01    14.00 01             2.7 01    7500 N    703922 1123629 SW   5 FROM C-25 THROUGH FEEDER
          5600001-3P  073 01    24.00 01             10.501   17000 N    719794 1121390 SW   5 CANALS TO REC. AREA

 5600004       156.38      03    57.56 02    56  9/87 AG  BOT      1 2   Alberta Hayes                     56                     8   13   1.5    11      200 0.50
          5600004-1   083 01     6.00 02 1000     6      non    250 N    672409. 1088025 GW  08 Cap estim.
          5600004-A   083 01    36.00 01 SURF.     C-2403 10,000 N    673940. 1090321 SW   5 C-24
          5600004-B   083 01    24.00 01 SURF.   C-2403 10,000 N    675909. 1087043 SW   5    C-24 CANAL SOURCE

 5600005           40      03     0.65 01    56  2/85 IND.BOT      4 1   TROPICANA PRODUCTS,INC.           56   5600005          2
          5600005-W1  072 01     6.00 02   87    78  65 02      100 Y    697616. 1106731 GW  02 FRUIT PROCESSING PLANT
          5600005-W2  072 01     6.00 02   87    78  65 02      100 Y    697485. 1106946 GW  02
          5600005-W3  072 01     6.00 02   87    78  65 02      100 Y    697429. 1107258 GW  02
          5600005-W4  072 01     6.00 02   76    46  65 02      150 Y    696650. 1107081 GW  02
          5600005-C   072 04    36.00     SURF       POND            N    698074. 1106925 SW   5 S.W.emrg.fire ONSITE PONDS

 5600006       846.82      03   311.68 02    56  2/88 AG  BOT      2 3   UNITED GROVES, INC.               56                    08   13   1.5    11     1083   .5
          5600006-1   071 01    12.00 02 1100   180             1835 N    651692. 1143232 GW  08
          5600006-2   071 01    10.00 02 1100   180             1700 N    651759. 1147303 GW  08 CASING DEPTH APPROX. 180' S.W.
          5600006-1   071 01    24.00 02                      18,000      653656. 1140568 SW   5 FROM C-25 CANAL
          5600006-2   071 01    24.00 02                      18,000      653656. 1140568 SW   5 C-25
          5600006-3   071 01    24.00 02                       8,000      656022. 1146298 SW   5 C-25

 5600008        69.45      03    25.56 02    56 12/87 AG  BOT      3 1   GEORGE HAMMER, SR.                56                    08   13    .8    11      151  .85
          5600008-1   072 01     6.00 02  845   400      01     310 N    674379. 1139227 GW  08 SURF. WATER FROM C-44 N.ST. LUCIE RIVER
          5600008-2   072 01     6.00 02  812   400      01     316 N    674304. 1137926 GW  08 WATER CONTROL DIST.
```

	5600008-3	072	01	6.00	02	800	400			01	350	N	674187.	1135105	GW	08								
	5600008-1	061	01	24.00							5,000	N	665233	1140294	SW	5	C-44							
5600015		265.85	03	97.85	02	56		11/87	AG	BOT	3 1		BRAD-RICH GROVE, INC.					56	08	13	.8	11	340	.5
	5600015-1	082	01	12.00	02	1285	360				1100	N	638491.	1099979	GW	08	C-23:SW BODY, Cap. estimated							
	5600015-2	082	01	6.00	02	800	200				250	N	636957.	1100027	GW	08	Cap. est.							
	5600015-3	082	01	6.00	02	800	200				250	N	639510.	1099987	GW	08	"							
	5600015-1	082	01	30.00							5000	N	636792.	1102801	SW	5	" C-23							
5600016		432	03	159	02	56		11/88	AG	BOT	6 1		MCARTHUR FARMS, INC.					56	08	13	.8	11	552	.5
	5600016-1	082	01	8.00	02	1320	318				600	N	638988.	1091484	GW	8	C-23 SW. BODY WITHDRAWING FROM							
	5600016-2	082	01	6.00	02	600	280				250	N	639042.	1090430	GW	8								
	5600016-3	082	01	8.00	02	1246	331				600	N	639340.	1089808	GW	8								
	5600016-4	082	01	10.00	02	1286	323				500	N	638983.	1087779	GW	8								
	5600016-5	082	02	12.00	02	1400	400				2,000	N	636717.	1091584	GW	8								
	5600016-6	082	02	12.00	02	1400	400				2,000	N	636670.	1088966	GW	8								
	5600016-1	082	01								15000		639184.	1092159	SW	5	Cap estimated,C-25							
5600017		430.06	03	158.28	02	56		3/88	AG	BOT	1 1		BECKER HOLDING CORP					56	08	13	1.5	11	550	.5
	5600017-1	071	01	8.00	02						800	N	659945.	1149604	GW	8	C-25 W.D. WATER SUPPLY							
	5600017-1	071	01	24.00							12,000	N	656410.	1148427	SW	5	VIA MAN MADE CANAL,C-25							
5600018		344.04	03	126.63	02	56		3/88	AG	BOT	1 2		BECKER HOLDING CORP.					56	08	13	.8	12	440	.5
	5600018-1	082	01	6.00	02						300	N	639063.	1064170	GW	8	C-23							
	5600018-1	082	01	30.00						C-23	25,000	N	636683.	1067753	SW	5	C23							
	5600018-2	082	01	28.00						C-23	15,000	N	636758.	1064106	SW	5	C23							
5600020		180.3	03	66.36	02	56		11/87	AG	BOT	2 1		SALAH GOUDA, M.D.					56	08	13	.8	11	280	.85
	5600020-1	071	01	8.00	02						575		647864.	1120202	GW	8	C-24 SURFACE BODY, CAp est.							
	5600020-2	071	01	8.00	02						575		649983.	1120370	GW	8	Cap. est.							
	5600020-1	071	01	18.00						C-24	6,000	N	647235.	1120202	SW	5	C-24							
5600021		131.6	03	48.40	02	56		5/88	AG	BOT	4 2		EVANS PROPERTIES, INC.					56	08	13	.8	12	286	.85
	5600021-1	082	01	6.00	02	900	360				200	N	634414.	1081509	GW	8	C-23 CANAL SOURCE							
	5600021-2	082	01	6.00	02	900	360				250	N	632413.	1081477	GW	8								
	5600021-3	082	01	8.00	02	1000	360				550	N	632780.	1080249	GW	8								
	5600021-4	082	01	5.00	02	700	360				60	N	631513.	1078994	GW	8								
	5600021-1	082	01	30.00							15,000	N	636460.	1080298	SW	5								
	5600021-2	082	01	16.00							6,000	N	636267.	1080291	SW	5								
5600022		132.5	03	48.80	02	56		5/88	AG	BOT	1 1		EVANS PROPERTIES, INC.					56	08	13	.8	12	288	.85
	5600022-1	082	01	10.00	02	1000	360				720	N	632591.	1091089	GW	8	C-23 CANAL SOURCE							
	5600022-2	082	01	30.00							20,000	N	636309.	1090982	SW	5								
5600023		246.3	03	90.65	02	56		3/88	AG	SW	0 1		BECKER HOLDING CORP.					56		13	1.5	11	315	.5
	5600023-1		01	36.00						C-24	15,000	N	677471.	1086074	SW	5	C-24 CANAL							
5600024		82.79	03	30.47	02	56		10/88	AG	BOT	1 2		COLEMAN DAVIS PROJECT.					56	08	13	1.5	11	180	.85
	5600024-1	071	01	8.00	02	1100	250				900	N	641733.	1142556	GW	08								
	5600024-1	071	01	23.00							10,000	N	641756.	1145203	SW	5	S.W. BODY C-25							
	5600024-2	071	01	18.00							4,000	N	641756.	1145203	SW	5								

```
=====================================================================================================
LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
=====================================================================================================
PERMIT   AN.              ALL  MAX   NO.     DATE  USE SRCNO.   SW
NO.      ALL.             UNT  NO.   UTS CO  ISS.  TYPE  WLS.   PMPS  OWNER                          CO  PERMIT NO.  DEV NO.  CROP  SOIL  RAIN   IRR    IRR
                                                                                                                          AGTYPE TYPE  ST     ACRES  EFF
=====================================================================================================
LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
=====================================================================================================
PERMIT   FACILITY     QUAD. WELL     DPTH          PMP PUM PUMP
NO.      NUMBER       NO. STSDIA.    COD  TD   CD  INT TYP CAP.  MTR?  XPLNR  YPLNR  SRC  AQ  COMMENTS
=====================================================================================================
=====================================================================================================

5600025       376.39      03    138.53 02   56  1/88  AG BOT      11 1   EVANS PROPERTIES,INC.                56          08  13   .8   12   818.3  .85
        5600025-1    082 01       4.00 02  840   225              50 N     656171 1090575 GW   8     C-24 CANAL
        5600025-2    082 02         12 02 800    320            1200 N     656141 1089135 GW   8
        5600025-3    082 02         12 02 800    320            1200 N     656190 1087216 GW   8
        5600025-4    082 02         12 02 800    320            1200 N     656170 1086144 GW   8
        5600025-5    082 02         12 02 800    320            1200 N     656159 1084849 GW   8
        5600025-6    082 02         12 02 800    320            1200 N     656211 1083451 GW   8
        5600025-7    082 02         12 02 800    320            1200 N     656099 1082109 GW   8
        5600025-8    082 02         12 02 800    320            1200 N     653708 1086180 GW   8
        5600025-9    082 02         12 02 800    320            1200 N     653766 1084691 GW   8
        5600025-10   082 02         12 02 800    320            1200 N     653824 1083401 GW   8
        5600025-11   082 02         12 02 800    320            1200 N     653804 1082108 GW   8
        5600025-P    082 01                                   30,000 N     657474 1091959 SW   8
5600026       231.8       03     85.32 02   56 11/87  AG BOT       2 6   ORANGE-CO OF FLA., INC.              56          08  13   .8   11     504  .85
        5600026-1    094 01         10 02 1300   360            1100 N     648309 1047263 GW   8 C-23 CANAL & INTERNAL DITCHES
        5600026-2    094 01         10 02 1300   360            1100 N     647948 1050891 GW   8
        5600026-1    094 01         30                        20,000 N     647258 1044499 SW   5
        5600026-2    094 02         10                         2,000 N     647569 1044722 SW   5
        5600026-3    094 01       4.00                           800 N     649278 1046822 SW   5
        5600026-4    094 01       4.00                         1,000 N     649145 1049335 SW   5
        5600026-5    094 01         25                           800 N     649110 1052275 SW   5
        5600026-6    094 01         25                           800 N     649060 1054624 SW   5
5600027       10,972      03      2671 02   56  2/89  AG          37 6   ADAMS RANCH, INC.                    56          08  20  1.5   11   14432   .5
        5600027-1    071 01         12 02 1000                  1200 N     645861 1129567 GW   8 C-24 CANAL RAULERSON &
        5600027-2    071 01         12 02                       1200 N     644775 1127662 GW   8 PUMPKIN HAMMOCK CANALS
        5600027-3    070 01       8.00 02                        200 N     619097 1130903 GW   8 TWO ONSITE RETENTION AREAS
        5600027-4    071 01       8.00 02                        200 N     624971 1129685 GW   8 & two reserviors
        5600027-5    071 01       6.00 02                        150 N     624971 1129685 GW   8
        5600027-6    071 01       6.00 02                        200 N     631771 1131445 GW   8
        5600027-7    071 01         10 02 1100                  1900 N     631728 1130159 GW   8
        5600027-8    071 01       6.00 02                        200 N     629186 1131097 GW   8
        5600027-9    071 01       8.00 02                        300 N     634396 1130694 GW   8
        5600027-10   071 01       8.00 02                        300 N     635520 1139789 GW   8
        5600027-11   071 01         10 02                       1900 N     634962 1127903 GW   8
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	5600027-12		071 01	8.00 02	1200			250 N	628200	1125069	GW	8							
	5600027-13		071 01	8.00 02				250 N	623967	1127747	GW	8							
	5600027-14		070 01	12 02	800			2500 N	623631	1125779	GW	8							
	5600027-15		071 01	8.00 02				250 N	619623	1123850	GW	8							
	5600027-16		071 01	6.00 02				250 N	622932	1118925	GW	8							
	5600027-17		071 01	6.00 02				150 N	625422	1118868	GW	8							
	5600027-18		071 01	8.00 02				325 N	631512	1120495	GW	8							
	5600027-19		071 01	8.00 02				250 N	636680	1121497	GW	8							
	5600027-20		071 01	6.00 02				125 N	643577	1120235	GW	8							
	5600027-21		071 01	10 02				1900 N	636941	1117291	GW	8							
	5600027-22		071 01	8.00 02				300 N	637003	1115735	GW	8							
	5600027-23		071 01	8.00 02				300 N	625841	1114719	GW	8							
	5600027-24		071 01	10 02				1900 N	625919	1115897	GW	8							
	5600027-25		070 01	6.00 02				200 N	626197	1114525	GW	8							
	5600027-26		070 01	6.00 02	800			40 N	625759	1112359	GW	8							
	5600027-27		070 01	6.00 02	800			40 N	630701	1110795	GW	8							
	5600027-28		070 01	6.00 02	800			90 N	634842	1113460	GW	8							
	5600027-29		070 01	6.00 02	800			40 N	635633	1108594	GW	8							
	5600027-30		070 01	6.00 02	800			40 N	637464	1110710	GW	8							
	5600027-31		070 01	6.00 02	800			40 N	640310	1111645	GW	8							
	5600027-32		070 01	6.00 02	800			40 N	643230	1113309	GW	8							
	5600027-33		071 01	6.00 02	800			150 N	641603	1113457	GW	8							
	5600027-34		071 01	6.00 02				250 N	643155	1109756	GW	8							
	5600027-35		071 01	6.00 02				200 N	639703	1106766	GW	8							
	5600027-36		071 01	6.00 02				150 N	614156	1116204	GW	8							
	5600027-37		071 01	8.00 02				300 N	614156	1116204	GW	8							
	5600027-P1		071 01			02		12,000 N	646779	1129308	SW	5							
	5600027-P2		071 01			02		30,000	642995	1113645	SW	5							
	5600027-P3		071 01			02		20,000	641647.	1113664	SW	5							
	5600027-P4		071 01	36		02		30,000	640676.	1120424	SW	5							
	5600027-P5		071 01	36		C-2402		12,000	635193.	1119996	SW	5							
	5600027-P6		071 02			02		23,000	635193.	1119996	SW	5	CANAL,PUMP P-6 LOC. IS GUESS						
5600030		59.3	03	51.8 02		56 10/87	AG SW	0 1	XRX GROVES										
	5600030-P		01	24.00				12,000 N	636737.	1072095	SW	5	BODY C-23 CANAL S.W. ONLY		13	1.5	12	180	.5
5600031		439	04	47 02		56 10/78	AG BOT	2 1	EARNEST DUNN										
	5600031-1		072 01	6.00 02				200 N	672906.	1139426	GW	8		08	20	.8	11	167	.5
	5600031-2		072 01	8.00 02				712 N	671444.	1137851	GW	8							
	5600031-3		072 01	12.00				3,000 N	670676.	1140155	SW	5	C-25 CANAL SURFACE WATER BODY						
5600032		33.5	04			56 10/78	AG BOT	1 1	MARCEL GAGNON										
	5600032-1		071 01	6.00	900		GW	100 N	653183	1124616	GW	8	PERMIT SAYS 400GPM APPLIC. HAS 75+- GPM	08	13	.8	11	20	.5
	5600032-1S		071 01	02			SW	400 N	653634	1124617	SW	5	WSLWMD CANAL, VACHON FILED APPL.						
5600033		435.6	03	36.30 02		56 1/88	AG GW	3 0	BERNARD EGAN										
5600033														08	20	1.5	12	1525	.5
5600033														02	13	1.5	12	697	.5
	5600033-1		070 01	6.00 02	800		N	40	599399.	1129064	GW	08		02	13	1.5	12	240	.5
	5600033-2		070 01	8.00 02	1100		N	350	604614.	1127160	GW	08							
	5600033-3		070 01	10.00 02	100	80	80 02	450	607415.	1128808	GW	02							

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LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
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PERMIT   AN.              ALL  MAX    NO.     DATE  USE SRCNO.   SW                                                  CROP SOIL  RAIN    IRR   IRR
NO.      ALL.             UNT  NO.    UTS CO  ISS.  TYPE   WLS.  PMPS   OWNER                 CO  PERMIT NO.  DEV NO.  AQTYPE TYPE   ST     ACRES  EFF
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LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
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PERMIT   FACILITY     QUAD.  WELL      DPTH           PMP PUM PUMP
NO.      NUMBER       NO. STSDIA.      COD  TD   CD   INT TYP CAP.  MTR?  XPLNR  YPLNR  SRC  AQ  COMMENTS
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 5600034      25.76     03     8.80 02   56 12/87  AG GW      3 0   JOHN T. MOOSE                                           08   13   1.5    11      56  .85
        5600034-1    083 01     6.00 02 1300   300   N        250 N   686398. 1078432 GW  08 Cap. Estimated.
        5600034-2    083 01     6.00 02 1260   300   N        250 N   687906. 1080110 GW  08                  "
        5600034-3    083 01     6.00 02   90    80  80 02     400 N   687287. 1078741 GW  02

 5600035     901.97     02   901.97 02   56  7/87  AG BOT    15 10  GREEN WATER MANAGEMENT, INC.                            08   13   1.5    11    1961  .85
        5600035-1    060 01     8.00 02  920   230            920 N    634600 1155200 GW  08
        5600035-2    060 01     8.00 02  900   230            900 N    634000 1156800 GW  08
        5600035-3    060 01     8.00 02  900   230            900 N    632400 1158200 GW  08
        5600035-4    060 01     8.00 02  880   240            950 N    630700 1159600 GW  08
        5600035-5    060 01     8.00 02  900   230            900 N    629800 1162600 GW  08
        5600035-6    060 01     8.00 02  960   230            900 N    634600 1159200 GW  08
        5600035-7    060 01     8.00 02  920   230            500 N    632400 1162400 GW  08
        5600035-8    060 01     8.00 02  960   250            950 N    631600 1164600 GW  08
        5600035-9    060 01     8.00 02  900   230            950 N    635000 1164000 GW  08
        5600035-10   060 01     8.00 02  900   230            400 N    636100 1166000 GW  08
        5600035-11   060 01     8.00 02  900   230            900 N    633800 1166800 GW  08
        5600035-12   060 01     8.00 02  900   240            900 N    629800 1166800 GW  08
        5600035-13   060 01     8.00 02  940   230            850 N    632400 1170000 GW  08
        5600035-14   060 01     8.00 02  960   230            950 N    632200 1172000 GW  08
        5600035-15   060 02     8.00 02  940   230            900 Y    634000 1161400 GW  08
        5600035-101  060 01    36.00                     02 25000 N    636000 1151400 SW   5
        5600035-102  060 01    20.00                     02 10000 N    631200 1157600 SW   5
        5600035-103  060 01    24.00                     02 15000 N    630600 1158000 SW   5
        5600035-104  060 01    20.00                     02 10000 N    630800 1159200 SW   5
        5600035-105  060 01    36.00                     02 25000 N    627800 1172000 SW   5
        5600035-106  060 01    24.00                     02 15000 N    627800 1172000 SW   5
        5600035-1P   060 02    16.00                     02  7200 N    632750 1159250 SW   5
        5600035-2P   060 02    16.00                     02  7200 N    629625 1157750 SW   5
        5600035-3P   060 02    12.00                     02  5200 N    632750 1161500 SW   5
        5600035-4P   060 02    12.00                     02  5200 N    630875 1163750 SW   5

 5600036     508.25      3      187 02   56  5/88 AG  BOT     2   3 MABEL CORP                      56  5600036            08   13    .8     4    1105  .85
        5600036-1    095 01    12.00 02 1280   365 FLOW.01  1100 N   665915. 1046855 GW  08
        5600036-2    095 01    12.00 02 1220   327 FLOW01   1100 N   665847. 1052110 GW  08
        5600036-A    095 01    36.00               FLOW02  28000 N   665946. 1044714 SW   5      C-23
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	5600036-A		095 01	36.00				02	28000 N	665946. 1044714 SW 5							
	5600036-A		095 01	24.00				02	10000 N	665946. 1044714 SW 5							
5600037		53.95	03	53.95 02	56	6/87	AG	BOT	3 1	ERNEST DUNN							
	5600037-1		083 01	5.00 02					250 N	667102. 1094162 GW 08	Cap. estimated	08	13	1.5	11	69	.5
	5600037-2		083 01	5.00 02					250 N	667118. 1093546 GW 08	"						
	5600037-3		083 01	5.00 02					250 N	667081. 1092941 GW 08	"						
	5600037-4		083 01	22.00				BOX PUM	10000 N	670330. 1092183 SW 5							
5600038		134	03 04	.528 01	56	4/86		bot	2	GENERAL DEVLPT. CORP	DEWATERING-MINING OP.	02					
5600039		82.79	03	30.47 02	56	7/87	AG	BOT	1 1	BARNETT GREEN,JR.							
	5600039-1		071 01	10.00 02	920	250			1280 N	641889. 1134640 GW 08		08	13	1.5	11	180	.85
	5600039-A		071 01	24.00				C-2502	10,000 N	642466. 1132408 SW 5	C-25						
5600040		1401.98	03	516 02	56	9/87	AG	BOT	10 6	ALLAPATTAH OPERATING CO.							
	5600040-1		082 01	12.00 02	1240	340	FLOW		1383 N	644681 1076194 GW 08	GERMANY	08	13	1.5	12	1793	.5
	5600040-2		082 01	12.00 02	1240	340			1383 N	647263 1073459 GW 08	CANAL SOURCE						
	5600040-3		082 01	12.00 02	1240	340			1383 N	647180 1080767 GW 08	FOR SURFACE WATER						
	5600040-4		082 01	12.00 02	1240	340			1383 N	644597 1070736 GW 08							
	5600040-5		082 01	12.00 02	1240	340			1383 N	647257 1068024 GW 08							
	5600040-6		082 01	12.00 02	1240	340			1383 N	644655 1068085 GW 08							
	5600040-1		082 02	12.00 02	1300	400			1383 N	649868 1075968 GW 08							
	5600040-2		082 02	12.00 02	1300	400			1383 N	649737 1070952 GW 08							
	5600040-3		082 02	12.00 02	1300	400			1383 N	642093 1070627 GW 08							
	5600040-4		082 02	12.00 02	1300	400			1383 N	642001. 1066577 GW 08							
	5600040-1		082 01	12.00 02					25000 N	644475. 1076231 SW 5							
	5600040-2		082 01	12.00 02					25000 N	645808. 1076305 SW 5							
	5600040-3		082 01	12.00 02					25000 N	646093. 1076306 SW 5							
	5600040-4		082 01	36.00	GERMANY		HYDRA		25000 N	646823. 1076254 SW 5							
	5600040-9		082 01	36.00	CANAL		FLOW		25000 N	642701. 1076206 SW 5							
	5600040-5		082 01	28.00					18000 N	645326. 1076300 SW 5							
5600041		450.22	03	138.77 02	56	11/87	AG	BOT	1 1	RU-MAR, INC.							
	5600041-1		094 01	8.00 02	1030	374	FLOW		575 N	646424. 1048431 GW 08	Cap. estimated	08	20	3.6	12	320	.5
	5600041-P		094 01	46.00				C-2302	28000 N	636624. 1059980 SW 5	C-23						
5600042		342.81	03	59.02 02	56	9/87	AG	GW	1 0	JACQUELYN CARLTON							
	5600042-1		082 01	6.00 02	900	200	FLOW		100 N	633790. 1089380 GW 08	WELL USED ONLY TO WATER 32 HEAD CATTLE	08	20	.8	12	320	.5
5600043		1091	03	244.45 02	56	9/76	AG	GW	18 N	EMERALD RANCH, INC.							
	5600043-1		70 01	8.00 02	1200	400	FLOW		575 Y	617977 1146511 GW 08	Cap. estimated	08	20	1.5	11	1400	.5
	5600043-2		71 01	8.00 02	1200	400	FLOW		575 Y	622467 1150563 GW 08	""						
	5600043-3		70 01	8.00 02	1200	400	FLOW		575 Y	620854 1148034 GW 08	""						
	5600043-4		70 01	6.00 02	800	300	FLOW		250 Y	617708 1145702 GW 08	""						
	5600043-5		70 01	6.00 02	800	300	FLOW		250 Y	621222 1145309 GW 08	""						
	5600043-6		70 01	8.00 02	1200	400	FLOW		575 Y	620605 1140864 GW 08	""						
	5600043-7		70 01	6.00 02	800	300	FLOW		250 Y	617460 1138431 GW 08	""						
	5600043-8		70 01	6.00 02	800	300	FLOW		250 Y	615571 1137416 GW 08	""						
	5600043-9		70 01	8.00 02	1200	400	FLOW		575 Y	621151 1138947 GW 08	""						
	5600043-10		71 01	8.00 02	1200	400	FLOW		575 Y	623583 1138954 GW 08	""						

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LINE 1 HEADINGS ([able 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
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PERMIT   AN.                ALL  MAX    NO.    DATE  USE SRCNO.    SW
NO.      ALL.               UNT  NO.    UTS CD ISS.  TYPE  WLS.    PMPS   OWNER                    CO  PERMIT NO.  DEV NO.  CROP  SOIL  RAIN   IRR    IRR
                                                                                                                        AQTYPE TYPE  ST    ACRES  EFF
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LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
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PERMIT   FACILITY      QUAD. WELL      DPTH          PMP PUM PUMP
NO.      NUMBER        NO. STSDIA.     COD  TD   CD  INT TYP CAP.  MTR?  XPLNR   YPLNR   SRC  AQ  COMMENTS
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         5600043-11     70 01      8.00 02 1200   400 FLOW      575 Y   620714 1134603 GW  08       **
         5600043-12     71 01      6.00 02  800   300 FLOW      250 Y   622506 1137638 GW  08       **
         5600043-13     70 01      8.00 02 1200   400 FLOW      575 Y   616121 1134085 GW  08       **
         5600043-14     70 01      8.00 02 1200   400 FLOW      575 Y   618015 1133283 GW  08       **
         5600043-15     70 01      8.00 02 1200   400 FLOW      575 Y   620537 1133492 GW  08       **
         5600043-16     71 01      8.00 02  800   300 FLOW      575 Y   623568 1143902 GW  08       **
         5600043-17     70 01      8.00 02  800   300 FLOW      575 Y   615913 1143778 GW  08       **
         5600043-18     70 01      6.00 02  800   300 FLOW      250 Y   615713 1141528 GW  08       **

5600044         116.9      03     26.19 02   56 12/87  AG GW      1 0   JOANNE C. HUMPHRIES
         5600044-1     082 01      6.00 02  900   200 FLOW      250 N   636862. 1084910 GW  08 Cap est.                     08   20   1.5   11    150   .5

5600045         249.3      03     55.87 02   56 12/87  AG         2 0   JOANNE C. HUMPHRIES
         5600045-2     082 01      6.00 02  900   200 FLOW      250 N   630379. 1087688 GW  08 Cap. est.                    08   20   1.5   11    320   .5
         5600045-3     082 01      6.00 02  900   200 FLOW      250 N   629475. 1090053 GW  08     "

5600047        238.72      03     87.86 02   56  7/88  AG BOT     1 2   BLUE GOOSE GROWERS,INC.
         5600047-1     095 01     10.00 02 1100   240 FLOW     1100 N   668759. 1051662 GW  08                              08   13   .8    4     519   .85
         5600047-1     095 01     28.00                        6000 N   671092. 1044479 SW   5  C-23 & ON SITE
         5600047-2     095 01     28.00                       12000 N   671092. 1044479 SW   5

5600048        536.31      03    197.39 02   56  7/88  AG BOT     1 2   BLUE GOOSE GROWERS,INC.
         5600048-1     095 01     10.00 02 1100   260 FLOW     1100 N   677112. 1051928 GW  08   C-23, ON SITE              08   13   .8    4     435   .75
         5600048-1     095 01     28.00                       15000 N   676501. 1044508 SW   5            C-23
         5600048-2     095 01     28.00                       15000 N   676501. 1044508 SW   5            C-23

5600053          2740      04       314 02   56 10/77  AG BOT     2 1   R.E. TEAGUE                           56
         5600053-1     082 01      8.00 02 1000   320 FLOW      150 N   642493. 1098844 GW  08            C-24          08   20   .8    11    1230  .5
         5600053-2     082 01      4.00 02 1000                  35 N   642768. 1099129 GW  08        VIA PC-34
         5600053-PC34  082 01                                 10000 N   646640. 1102080 SW   5            C-24

5600055         758.3      03     238.7 02   56  4/88  AG BOT     2 1   DAVIS,J.L. & DAVIS,C.T.
5600055          16.9      02                                                                                           02   20   .8    11    1250  .5
         5600055-1     083 01      4.00 02   90    84      02    90 N   673643. 1082906 GW  02                          02   61   .8    11      75  .5
         5600055-2     083 01      6.00 02   90    84      02    90 N   673201. 1083342 GW  02
         5600055-PUMP  083 01     24.00                       10000 N   677442. 1086110 SW   5            C-24
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5600060		469.15	03	172.67 02	56	7/88	AG BOT		2 4	JOHN H. BIRDSALL									
	5600060-1		071 01	10.00 02	900	275	FLOW	1300	N	644324. 1134518	GW 08			08	13	1.5	11	1020	.85
	5600060-2		071 01	6.00	800	275		1300	N	644310. 1134145	GW 08								
	5600060-1		071 01	36.00				15000	N	646764. 1136714	SW 5		C-25						
	5600060-2		071 01	36.00				10000	N	646698. 1139286	SW 5								
	5600060-3		071 01	36.00				15000	N	646751. 1141793	SW 5								
	5600060-4		071 01	36.00				32000	N	644322. 1145053	SW 5								
5600062		237.7	03	87.49 02	56	10/87	AG BOT		4 1	SEXTON GROVE SERVICE,INC									
	5600062-1		082 01	6.00 02	890	275	FLOW	250	N	640665. 1081050	GW 08	Cap. estimated		08	13	3.6	11	320	.5
	5600062-2		082 01	5.00 02	815	270	FLOW	250	N	640667. 1079701	GW 08	"							
	5600062-3		082 01	5.00 02	850	265	FLOW	250	N	640374. 1077729	GW 08	"							
	5600062-4		082 01	8.00 02	975	285	FLOW	575	N	640877. 1077040	GW 08	"							
	5600062-1		082 01	24.00			P.T.O.	20000	N	640723. 1076500	SW 5								
5600063		82.1	03	32.22 02	56	1/88	AG SW		0 1	BERNARD EGAN									
	5600063-1		083 01	24.00			CON	9000	N	671233. 1091745	SW 5		C-23		13	1.5	11	105	.5
5600064		31.28	03	11.51 02	56	8/87	AG SW		0 1	BERTA C. HAYES GROVE									
	5600064-A		083 01	24.00			COUCH	10000	N	673867. 1089268	SW 5		C-24	08	13	.8	4	600	.85
5600065		275.97	03	101.57 02	56	11/87	AG BOT		3 1	ROBERT BADENHOP CORP.									
	5600065-1		095 01	6.00 02	950	445	FLOW	200		671452. 1051917	GW 08			08	13	.8	4	600	.85
	5600065-2		095 01	6.00 02	950	445		200		671463. 1049682	GW 08								
	5600065-3		095 01	6.00 02	950	445		200		672548. 1049226	GW 08								
	5600065-PUMP		095 01	22.00				16000		673597. 1044583	SW 5		C-23						
5600066		1260	03 104	02	56	3/77	AG GW		4 0	RU-MAR, INC.									
	5600066-1		081 02	8.00 02			FLOW	600		617229 1093697	GW 08			08	20	.8	11	3300	.5
	5600066-2		081 02	8.00 02			FLOW	600		619312 1090674	GW 08								
	5600066-3		081 02	8.00 02			FLOW	600		619327 1085524	GW 08								
	5600066-4		081 02	8.00 02			FLOW	600		619342 1080576	GW 08								
5600067		221.7	03	74.83 02	56	1/88	AG BOT		1 1	GOLDEN GROVES									
5600067																			
	5600067-1		082 01	10.00 02				850		638610. 1082970	GW 08	Cap. estimated		08	13	1.5	11	260	.5
	5600067-1		082 01	36.00				18000		636687. 1082986	SW 5		C-23	08	13	1.5	11	40	.85
5600068		62.09	03	22.85 02	56	3/77	AG GW		3 0	EDSALL GROVES, INC.									
	5600068-1		082 01	8.00 02	1500	325	FLOW	1300		640518. 1092897	GW 08			08	13	1.5	11	135	.85
	5600068-2		082 01	8.00 02	1500	331	FLOW	1300		640513. 1094210	GW 08								
	5600068-3		082 01	5.00 02	900	340	FLOW	175		639404. 1094758	GW 08								
5600069		1533.43	03	309.67 02	56	3/77	AG GW		7 0	STARK, WILLIAM D.									
	5600069-1		083 01	8.00 02	1000		FLOW	650		665335 1083767	GW 08			08	20	.8	11	1620	.5
	5600069-2		083 01	4.00 02	450		FLOW	90		667155 1079836	GW 08								
	5600069-3		083 01	8.00 02	1000		FLOW	760		664450 1079522	GW 08								
	5600069-4		082 01	4.00 02	450		FLOW	15		660837 1080219	GW 08								
	5600069-5		082 01	8.00 02	1000		FLOW	610		661458 1076746	GW 08								
	5600069-6		082 01	4.00 02	450		FLOW	20		660743 1075027	GW 08								
	5600069-7		082 01	8.00 02	1000		FLOW	813		661383 1073009	GW 08								

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LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
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PERMIT   AN.            ALL  MAX   NO.     DATE  USE SRCNO.    SW
NO.      ALL.           UNT  NO.   UTS CO  ISS.  TYPE   WLS.   PMPS   OWNER                                CO  PERMIT NO.  DEV NO.  CROP SOIL  RAIN   IRR    IRR
                                                                                                                                AQTYPE TYPE  ST    ACRES  EFF
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LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
=================================================================================================
PERMIT   FACILITY      QUAD. WELL       DPTH           PMP PUM PUMP
NO.      NUMBER        NO. STSDIA.      COD  TD    CD  INT TYP CAP.  MTR?  XPLNR  YPLNR  SRC  AQ  COMMENTS
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5600070        299.89     03    26.12 02    56  7/77  AG BOT     2 1   OLSON GROVES
         5600070-1     082 01    6.00 02              FLOW     550    636281. 1078503 GW  08 Cap. estimated                     08  20   .8   11   345.8  .5
         5600070-2     082 01    6.00 02 1000     340 FLOW     550    631938. 1077043 GW  08
         5600070-1     082 01   30.00 02                  SW  18000    636285. 1076399 SW   5            C-23

5600071         242.4     03    89.21 02    56  9/87  AG BOT     4 1   D.L. SCOTTO & CO.,INC.
         5600071-1     082 01    8.00 02 1000  200 FLOW        704    653959. 1090680 GW  08                                    08  13   .8   11   310    .5
         5600071-2     082 01   10.00 02 1000  200 FLOW        480    653908. 1089369 GW  08
         5600071-3     082 01    6.00 02 1000  200 FLOW        360    652876. 1089400 GW  08
         5600071-4     082 01    8.00 02 1000  200 FLOW        603    653915. 1088216 GW  08
         5600071-5     082 01   30.00                        15000    653958. 1092071 SW   5            C-24

5600072          39.1     03    14.39 02    56  7/87  AG GW      2 0   H.E. RUSSELL (RUSSELL BROTHRS. GROVE)
         5600072-A     062 01    6.00 02 1200                    N    706820. 1170055 GW  08                                    08  13   .8   11    85    .85
         5600072-B     062 01    6.00 02 1200                    N    707143. 1169074 GW  08

5600073        257.57     03    94.80 02    56  7/87  AG BOT     3 1   J.V. D'ALBORA CO.
         5600073-1     082 01    5.00 02  500  300           250 N    662394. 1087442 GW  08 Cap. estimated.                    08  13   .8   11   560    .85
         5600073-2     083 01    5.00 02  500  300           250 N    662976. 1081870 GW  08      "
         5600073-3     082 01    8.00 02 1000  600           575 N    660651. 1083901 GW  08      " --
         5600073-713   082 01   24.00            SURF02     8000 N    660666. 1092036 SW   5            C-24

5600074       1999.37     03   735.88 02    56  1/88  AG BOT     8 1   SOUTHERN FRUIT DISTRIB., INC.(BLUEBIRD GROVE)
         5600074-1     094 01   10.00 02 1300  379           850 N    654794. 1053208 GW  08 Cap. estimated.                    08  13   .8   04   2557   .5
         5600074-2     094 01   10.00 02  970  363           850 N    654881. 1050702 GW  08      "
         5600074-3     094 01    6.00 02 1100  340           250 N    657976. 1049203 GW  08      "
         5600074-4     094 01   10.00 02 1380  360           850 N    659761. 1050772 GW  08      "
         5600074-5     094 01   10.00 02 1320  360           850 N    659788. 1053763 GW  08      "
         5600074-6     094 01   10.00 02 1020  411           850 N    660177. 1046004 GW  08      "
         5600074-7     094 01   12.00 02                    1100 N    655117. 1046855 GW  08      "
         5600074-8     094 01   12.00 02                    1100 N    655032. 1049035 GW  08      "
         5600074-1     094 01                               8000 N    654789. 1044531 SW   5            C-23

5600075        333.93     03   122.9 02     56 10/87  AG BOT     3 0   WESTWOOD GROVES, INC.
         5600075-A     060 01    8.00 02 1000  300 FLOW        575    659037. 1165735 GW  08 SURF. WATER FROM ON SITE 80 ACRE RESERV., Cap est.   08  13  1.5  11   726  .85
         5600075-B     060 01    8.00 02 1000  300 FLOW        575    660184. 1164308 GW  08 S.W. FROM C-25 CANAL VIA MINUTE MAID CANAL, ""
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	5600075-C	060	01	8.00	02	1000	300	FLOW		575	658978.	1160144	GW	08	4 PUMPS FOR DRAINAGE ONLY (ONEWAY),			**				
5600076	375.3	03		225.19	02	56	11/88	AG BOT	6 2		McAUTHUR FARMS, INC.(GROVE #3)						02	13	.8	11	288	.5
5600076				150.13	02	55	N/A		01								02	13	.8	11	288	.75
	5600076-1	082	01	6.00	02	55	N/A		01	280 N	659320.	1082197	GW	02								
	5600076-2	082	01	6.00	02	55	N/A		01	280 N	659292.	1083533	GW	02								
	5600076-3	082	01	6.00	02	55	N/A		01	280 N	659290.	1084905	GW	02								
	5600076-4	082	01	6.00	02	55	N/A		01	280 N	659260.	1086172	GW	02								
	5600076-5	082	01	6.00	02	55	N/A		01	280 N	659175.	1088785	GW	02								
	5600076-6	082	02	12.00	02	1400	400			2000 N	658986.	1081626	GW	02								
	5600076-1	082	01	36.00						21000 N	658024.	1092032	SW	5		C-24						
	5600076-2	082	01	36.00						21000 N	660277.	1092048	SW	5		C-24						
5600077	1282.35	03		471.98	02	56	4/77	AG BOT	2 9		ALLAPATTAH WATER MANAGEMENT						08	13	.8	12	1640	.5
	5600077-1	082	01	8.00	02	1500	340	FLOW		575 N	651256	1062096	GW	08	Cap est.							
	5600077-12	082	01	5.00	02	?	?	FLOW		250 N	642504	1060762	GW	08	"							
	5600077-3S	082	01		01			14	01	27000 N	651080	1060487	SW	5								
	5600077-5S	082	01		01			16	01	10000 N	649004	1060479	SW	5								
	5600077-6S	082	01		01			14	01	26000 N	648643	1060478	SW	5								
	5600077-8S	082	01		01			14	01	15000 N	647199	1060473	SW	5								
	5600077-10S	082	01		01			14	01	15000 N	644582	1060463	SW	5								
	5600077-13S	082	01		01			14	01	15000 N	641964	1060454	SW	5								
	5600077-15S	082	01		01			14	01	15000 N	639076	1060444	SW	5								
	5600077-16S	082	01		01			14	01	10000 N	636820	1060437	SW	5								
	5600077-17S	082	01		01			14	01	15000 N	636808	1063971	SW	5								
5600078	250.21	03		92.09	02	56	5/87	AG BOT	2 1		S.N. KNIGHT & SONS, INC.(JO-GROVE)						08	13	1.5	11	320	.5
	5600078-1	082	01	12.00	02	1330	300	FLOW		1600 N	649384.	1079067	GW	08								
	5600078-2	082	01	10.00	02	1330	300	FLOW02		1200 N	647474.	1079121	GW	08								
	5600078-1	082	01	24.00						18000 N	649792.	1076671	SW	5		C-23						
5600079	758.5	03		279.02	02	56	7/87	AG BOT	5 5		BRAD-RICH GROVES, INC.						08	13	.8	11	970	.5
	5600079-1	082	01	5.00	02	800	400	FLOW		250 N	650057.	1065549	GW	08	Cap. estimated							
	5600079-2	082	01	12.00	02	1285	380			1100 N	652222.	1069442	GW	08	"							
	5600079-3	082	01	12.00	02	1330	385			1100 N	650138.	1072498	GW	08	"							
	5600079-4	082	01	12.00	02	1300	360			1100 N	652332.	1076092	GW	08	"							
	5600079-5	082	01	5.00	02	800	300			250 N	650191.	1079560	GW	08	"							
	5600079-1	082	01	23.00	--	--	--	--		10000 N	652221.	1070228	SW	5		C-23						
	5600079-2	082	01	28.00	--	--	--	--		15500 N	650552.	1070990	SW	5		C-23						
	5600079-3	082	01	28.00	--	--	--	--		15500 N	650360.	1079047	SW	5		C-23						
	5600079-4	082	01	23.00	--	--	--	--		10000 N	650282.	1076174	SW	5		C-23						
	5600079-5	082	01	28.00	--	--	--	--		15500 N	650259.	1078551	SW	5		C-23						
5600080	137.99	03		50.79	02	3/88		AG BOTH	4 1		MYERS GROVES, INC.(CITRUS GROVE)						08	13	3.6	12	300	.85
	5600080-1	082	01	8.00	02	1000	300	--	01	1000 N	637876.	1077023	GW	08								
	5600080-2	082	01	8.00	02	1000	300	--	01	1000 N	636971.	1079221	GW	08								
	5600080-3	082	01	8.00	02	1000	300	--	01	1000 N	638196.	1081583	GW	08								
	5600080-4	082	01	12.00	02	1000	300	--	01	2500 N	637850.	1079110	GW	08								
	5600080-5	082	01	30.00	--	--	--	--	02	10000 N	636872.	1079073	SW	5		C-23						
5600082	1591.9	03		270.52	02	56	2/88	AG BOT	13 0		D.L. SCOTT/WESCOTT GROVES, INC.						08	13	1.5	11	940	.5
5600082				192.06	02												08	20	1.5	11	1100	.5

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LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
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PERMIT   AN.              ALL  MAX   NO.    DATE  USE SRCNO.   SW                                                  CROP SOIL  RAIN   IRR   IRR
NO.      ALL.             UNT  NO.   UTS CO ISS.  TYPE  WLS.   PMPS  OWNER                 CD  PERMIT NO.  DEV NO.  AQTYPE TYPE  ST    ACRES  EFF
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LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
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PERMIT   FACILITY      QUAD.  WELL      DPTH           PMP PUM PUMP
NO.      NUMBER        NO. STSDIA.      COD  TD   CD   INT TYP CAP.  MTR?  XPLNR   YPLNR   SRC  AQ  COMMENTS
=====================================================================================================================
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         5600082-1     070 01     6.00 02 N/A  N/A    FLOW      121 N  609822. 1128749 GW  08
         5600082-2     070 01     6.00 02 N/A  N/A    FLOW      121 N  612271. 1120658 GW  08
         5600082-3     070 01     6.00 02 N/A  N/A    FLOW      121 N  614194. 1118795 GW  08
         5600082-4     070 01     4.00 02 N/A  N/A    FLOW       53 N  616815. 1118793 GW  08
         5600082-5     070 01     4.00 02 N/A  N/A    FLOW       53 N  615946. 1121142 GW  08
         5600082-6     070 01     6.00 02 N/A  N/A    FLOW      121 N  616127. 1129552 GW  08
         5600082-7     070 01     4.00 02 N/A  N/A    FLOW       53 N  616541. 1123761 GW  08
         5600082-8     070 01     6.00 02 N/A  N/A    FLOW       53 N  612470. 1126198 GW  08
         5600082-9     070 01     4.00 02 N/A  N/A    FLOW      121 N  616390. 1120149 GW  08
         5600082-10    070 01     6.00 02 N/A  N/A    FLOW      121 N  614084. 1120872 GW  08
         5600082-11    070 01     6.00 02 N/A  N/A    FLOW      121 N  612689. 1123363 GW  08
         5600082-12    070 01     4.00 02 N/A  N/A    FLOW       53 N  614762. 1126445 GW  08
         5600082-13    070 01    12.00 02 N/A  N/A    FLOW       53 N  612749. 1122639 GW  08

5600083        638.45      03   122.23 02   56    --   AG GW      4 0  B.E. ALDERMAN RANCH,INC                          08   20    .8    11     640   .5
         5600083-1     070 01     6.00 02 UNK. UNK.   FLOW      250 N  602108. 1144557 GW  08 Cap. est.
         5600083-2     070 01     6.00 02 UNK. UNK.   FLOW      250 N  599219. 1150113 GW  08       "
         5600083-3     059 01     6.00 02 UNK. UNK.   FLOW      250 N  599887. 1153764 GW  08       "
         5600083-4     059 01     6.00 02 UNK. UNK.   FLOW      250 N  595727. 1154275 GW  08       "

5600084        943.5       03   169.3 02    56  6/77   AG BOT    16 6  STRAZULLA BROTHERS, INC.                         08   13    .8    11    1000   .85
5600084                         174.78                                                                                  08   15    .8    11     600   .5
5600084                         612.66                                                                                  08   20    .8    11    3208   .5
         5600084-2     061 01     6.00 02  740   440 FLOW      100 N  670754. 1167199 GW  08
         5600084-3     061 01     4.00 02  750   450 FLOW       60 N  671298. 1166394 GW  08
         5600084-4     061 01     6.00 02  750   450 FLOW       60 N  671219. 1163667 GW  08
         5600084-5     061 01     6.00 02  800   440   0 01    140 N  671057. 1159627 GW  08 YARD IRRIGATION ONLY.
         5600084-7     072 01     6.00 02  800   440 FLOW      200 N  666750. 1149463 GW  08
         5600084-8     061 01     6.00 02  800   440 FLOW      200 N  666756. 1154661 GW  08
         5600084-9     061 03     5.00 02  700   500 FLOW      100 N  665032. 1157885 GW  08
         5600084-10    061 01     6.00 02  700   500 FLOW       90 N  667272. 1160520 GW  08
         5600084-11    061 03     8.00 02  900   900 FLOW      200 N  667431. 1165368 GW  08
         5600084-12    061 03     8.00 02  900   900 FLOW      150 N  666889. 1165870 GW  08
         5600084-13    061 01     5.00 02  700   500 FLOW       60 N  662650. 1167872 GW  08
         5600084-14    060 01     6.00 02  700   500 FLOW      200 N  660935. 1171978 GW  08
         5600084-PW1     ? 02    12.00 02  850   500 FLOW     1100 N  660935. 1171978 GW  08 FROM HERE DOWN PLANAR, Cap & Loc. estimated
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5600084-PW2	?	02	12.00	02	850	500	FLOW		1100	N	660935.	1171978	GW	08	COORDINATES SUPPLIED ON PERMIT, ""		
5600084-PW3	?	02	12.00	02	850	500	FLOW		1100	N	660935.	1171978	GW	08	NOT PLOTTED DIRECTLY ON MAP, ""		
5600084-PW4	?	02	12.00	02	850	500	FLOW		1100	N	660935.	1171978	GW	08	Loc & cap, estimated		
5600084-IS1	?	02		01		20		01	3000		660935.	1171978	SW	5	FROM ONSITE RESERVOIR #1		
5600084-IS2	?	02		01		20		01	3000		660935.	1171978	SW	5	"		
5600084-IS3	?	02		01		20		01	3000		660935.	1171978	SW	5	All supplied coords. plotted		
5600084-IS4	?	02		01		20		01	3000		660935.	1171978	SW	5	WRONG! locations COPIED FROM ABOVE FACILITIES.		
5600084-IS5	?	02		01		20		01	3000		660935.	1171978	SW	5	"		
5600084-IS6	?	02		01		20		01	3000		660935.	1171978	SW	5	"		
5600085	4544	03	17.18	01	56	11/85	PWS	GW	43	0	FT.PIERCE UTILITIES AUTHORITY						
5600085-N1	073	01	10.00	02	92	45	N/A	02	350	Y	710326.	1130034	GW	02		PWS	13,939
5600085-N2	073	01	10.00	02	114	49	N/A	02	350	Y	710377.	1130487	GW	02			
5600085-N3	073	01	10.00	02	114	59	N/A	02	350	Y	710366.	1131064	GW	02			
5600085-N4	073	01	10.00	02	110	56	N/A	02	350	Y	710305.	1131503	GW	02			
5600085-N5	073	01	10.00	02	113	65	N/A	02	350	Y	710333.	1132120	GW	02			
5600085-N6	073	01	10.00	02	113	65	N/A	02	350	Y	710348.	1132609	GW	02			
5600085-N7	073	01	10.00	02	113	72	N/A	02	350	Y	710326.	1130034	GW	02			
5600085-N8A	073	04	----	02	---	---	N/A	02	350	Y	710271.	1133130	GW	02			
5600085-N9	073	01	10.00	02	129	70	N/A	02	350	Y	710456.	1133477	GW	02			
5600085-N10	073	01	10.00	02	114	68	N/A	02	350	Y	710247.	1133970	GW	02			
5600085-N11	073	01	10.00	02	100	54	N/A	02	350	Y	710276.	1134770	GW	02			
5600085-N12	073	01	10.00	02	106	54	N/A	02	350	Y	710251.	1135148	GW	02			
5600085-N13	073	01	10.00	02	110	60	N/A	02	350	Y	710261.	1136112	GW	02			
5600085-N14	073	01	10.00	02	101	57	N/A	02	350	Y	710295.	1136384	GW	02			
5600085-N15	073	01	16.00	02	105	53	N/A	02	700	Y	710159.	1137073	GW	02			
5600085-N16	073	01	16.00	02	105	52	N/A	02	700	Y	711634.	1139771	GW	02			
5600085-N17	073	01	16.00	02	105	52	N/A	02	700	Y	711231.	1139756	GW	02			
5600085-N18	073	01	16.00	02	110	65	N/A	02	700	Y	710795.	1139790	GW	02			
5600085-N19	073	01	16.00	02	110	62	N/A	02	550	Y	710339.	1139801	GW	02			
5600085-N20	073	01	10.00	02	110	55	N/A	02	350	Y	709929.	1139786	GW	02			
5600085-N21	073	01	10.00	02	110	50	N/A	02	350	Y	709427.	1139795	GW	02			
5600085-S1	073	01	10.00	02	114	49	N/A	02	350	Y	708935.	1139796	GW	02			
5600085-S2A	073	01	10.00	02	111	61	N/A	02	350	Y	710024.	1129822	GW	02			
5600085-S4	073	01	12.00	02	97	60	N/A	02	300	Y	710409.	1129266	GW	02			
5600085-S5	073	01	16.00	02	105	65	N/A	02	200	Y	710841.	1125864	GW	02			
5600085-S6	073	01	16.00	02	105	65	N/A	02	200	Y	711366.	1125859	GW	02			
5600085-S7	073	01	16.00	02	105	65	N/A	02	300	Y	711963.	1125922	GW	02			
5600085-S8	073	01	16.00	02	105	65	N/A	02	600	Y	712193.	1125049	GW	02			
5600085-S9	073	01	16.00	02	105	65	N/A	02	350	Y	712569.	1125917	GW	02			
5600085-S10	073	01	16.00	02	105	65	N/A	02	325	Y	713593.	1125891	GW	02			
5600085-S11	073	01	16.00	02	105	65	N/A	02	200	Y	713299.	1125380	GW	02			
5600085-S12	073	01	16.00	02	105	65	N/A	02	400	Y	713301.	1124832	GW	02			
5600085-S13	073	01	16.00	02	105	65	N/A	02	300	Y	713233.	1124318	GW	02			
5600085-S14	073	01	16.00	02	105	65	N/A	02	450	Y	713837.	1124348	GW	02			
5600085-S15	073	01	16.00	02	105	65	N/A	02	325	Y	714211.	1124360	GW	02			
5600085-S16	073	01	16.00	02	105	65	N/A	02	500	Y	714775.	1124404	GW	02			
5600085-S17	073	02	10.00	02	105	65	50	02	350	Y	712050.	1125420	GW	02			
5600085-S18	073	02	10.00	02	105	65	50	02	350	Y	714067.	1125617	GW	02			
5600085-W1	073	01	10.00	02	105	70	50	02	350	Y	714418.	1125622	GW	02			
5600085-W2	073	01	10.00	02	105	70	50	02	350	Y	709538.	1130542	GW	02			
5600085-W3	073	01	10.00	02	105	70	50	02	350	Y	709820.	1130567	GW	02			

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LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
=================================================================================================================================
PERMIT   AN.               ALL  MAX    NO.    DATE  USE SRCNO.   SW
NO.      ALL.              UNT  NO.    UTS CO ISS.  TYPE  WLS.   PMPS   OWNER                              CO  PERMIT NO.  DEV NO.  AQTYPE TYPE  ST    ACRES  EFF
                                                                                                                                 CROP  SOIL  RAIN  IRR    IRR
=================================================================================================================================

LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
=========================================================================================
PERMIT   FACILITY      QUAD. WELL     DPTH          PMP PUM PUMP
NO.      NUMBER        NO. STSDIA.    COD  TD   CD  INT TYP CAP.  MTR?  XPLNR  YPLNR  SRC  AQ  COMMENTS
=================================================================================================================================
=================================================================================================================================


         5600085-W4    073 01    10.00 02  105    70  50 02    350 Y    709599. 1130155 GW  02
         5600085-FB1   073 02    10.00 02  700   600 N/A 02    350 Y    709838. 1130246 GW  08 Cap. estimated

 5600086       179.84     03     66.19 02   56  7/88  AG SW      0 1   HESTER, ROBERT, J.III
         5600086-1     071 01    28.00 --- ---   --- --- N/A 15000 N   647356. 1141874 SW   5           C-25                    13   1.5   11      230  .5

 5600087       165.77     03     61.01 02   56  7/88  AG SW      0 1   CHAPLIN, FRANKLIN N.
         5600087-1     071 01     3.00 --- ---   --- --- N/A 15000 N   656128. 1150569 SW   5           C-25                    13   1.5   11      212  .5

 5600088       461.28     03    149.44 02   56  7/87  AG BOT     4 2   TREASURE COAST GROVES                                     13   1.5   11   519.35  .5
 5600088                         20.31                                                                                            13   1.5   11      120  .5
         5600088-11     71 01     6.00 02 1000   300 --- FLO   170 N   645913. 1115130 GW  08
         5600088-12     71 01     8.00 02 1000   300 --- FLO   600 N   646323. 1118797 GW  08
         5600088-3      71 01    12.00 02 1000   300 --- FLO  1300 N   640851. 1117535 GW  08
         5600088-4      71 01    12.00 02 1000   300 --- FLO  1500 N   643226. 1117763 GW  08
         5600088-1      71 01    36.00 --- ---   --- ---     25000 N   642068. 1113843 SW   5           C-24
         5600088-2      71 01    36.00 --- ---   --- ---     25000 N   645455. 1113861 SW   5           C-24

 5600089      1421.29     03    447.61 02   56  9/77  AG SW      0 13  FLORIDA MAID CITRUS CORP                            08   13   1.5   11     2333  .75
 5600089                         75.5                                                                                      08   13   1.5   11      446  .85
         5600089-P1     71 01    24.00                   02  12000 N   641123. 1146181 SW   5 C-25 EXTENSION
         5600089-IP1    71 01     8.00                   02   1000 N   637418. 1149804 SW   5 C-25 EXTENSION,VIA HEADER CANAL
         5600089-IP2    60 01     8.00                   02   1000 N   636418. 1152628 SW   5               "
         5600089-IP3    60 01     8.00                   02   1000 N   636409. 1155152 SW   5               "
         5600089-IP4    60 01     8.00                   02   1000 N   636400. 1157879 SW   5               "
         5600089-IP5    60 01     8.00                   02   1000 N   636553. 1165756 SW   5               "
         5600089-IP6    60 01     8.00                   02   1000 N   636638. 1167271 SW   5               "
         5600089-IP7    60 01     8.00                   02   1000 N   636716. 1170906 SW   5               "
         5600089-IP8    71 01     6.00                   02    500 N    641142 1148385 SW   5               "
         5600089-IP9    60 01     8.00                   01   1800 N   636563. 1162928 SW   5               "
         5600089-IP10   60 01     8.00                   01   1800 N   636482. 1160201 SW   5               "
         5600089-IP11   60 01     8.00                   01   1800 N   641235. 1165671 SW   5               "
         5600089-IP12   60 01     8.00                   01   1800 N   641230. 1166984 SW   5               "
         5600089-IP13   60 01     8.00                   01   1800 N   641217. 1170720 SW   5               "

 5600090       815.54     03    300.16 02   56  7/87  AG BOT    13 1   CHARLES CAMPBELL                                    ---  13    .8   11    1,043  .5
```

	5600090-1	72	01	8.00	02	924	150	FLOWING	575 N	674333.	1169938	GW 08	CAP. ESTIMATED						
	5600090-2	61	01	4.00	02	700	150	FLOWING	100 N	675740.	1169927	GW 08	"						
	5600090-3	61	01	8.00	02	1100	150	FLOWING	575 N	677658.	1169891	GW 08	"						
	5600090-4	61	01	8.00	02	1100	150	FLOWING	575 N	674148.	1167174	GW 08	"						
	5600090-5	61	01	8.00	02	700	150	FLOWING	575 N	675752.	1167192	GW 08	"						
	5600090-6	61	01	8.00	02	1084	150	FLOWING	575 N	676923.	1167133	GW 08	"						
	5600090-7	61	01	8.00	02	1100	150	FLOWING	575 N	678225.	1167120	GW 08	"						
	5600090-8	61	01	8.00	02	1166	150	FLOWING	575 N	673762.	1164159	GW 08	"						
	5600090-9	61	01	8.00	02	700	150	FLOWING	575 N	676004.	1164544	GW 08	"						
	5600090-10	61	01	8.00	02	700	150	FLOWING	575 N	677519.	1164582	GW 08	"						
	5600090-11	61	01	8.00	02	700	150	FLOWING	575 N	673878.	1161823	GW 08	"						
	5600090-12	61	01	6.00	02	700	150	FLOWING	250 N	675314.	1161828	GW 08	"						
	5600090-13	61	01	8.00	02	1120	150	FLOWING	575 N	675849.	1161340	GW 08	"						
	5600090-1	72	01	72.00	---	---	---	---	--- 35000	671123.	1140756	SW 5	C25, SURF. PUMP NOT ON PROP BOUNDS, SHARING						
5600091		2872.13	03	605	02	56	9/77	AG BOT	18 1	ALCO GROVES,INC.				08	13	.8	11	605	.5
5600091				260										08	13	.8	11	260	.85
5600091				2285										08	20	.8	11	2285	.5
	5600091-1	061	01	4.00	02	1000	?		150 N	671966	1157713	GW 08							
	5600091-2	061	01	6.00	02	1000	?		350 N	673406	1157719	GW 08							
	5600091-3	061	01	6.00	02	1000	?		350 N	672245	1155492	GW 08							
	5600091-4	061	01	6.00	02	1000	?		350 N	675308	1155303	GW 08							
	5600091-5	061	01	6.00	02	1000	?		350 N	677289	1155211	GW 08							
	5600091-6	061	01	6.00	02	1000	?		350 N	675594	1151669	GW 08							
	5600091-7	072	01	6.00	02	1000	?		350 N	673597	1150757	GW 08							
	5600091-8	072	01	6.00	02	1000	?		350 N	676506	1148846	GW 08							
	5600091-9	072	01	6.00	02	1000	?		350 N	671931	1144686	GW 08							
	5600091-10	072	01	6.00	02	1000	?		350 N	674824	1142275	GW 08							
	5600091-11	072	01	12.00	02	1050	350		1000 N	677041	1150060	GW 08							
	5600091-12	072	01	12.00	02	1050	350		1000 N	677054	1147233	GW 08							
	5600091-13	072	01	12.00	02	1050	350		1000 N	677695	1144913	GW 08							
	5600091-14	061	01	12.00	02	1000	?		1000 N	676471	1156823	GW 08							
	5600091-15	061	01	12.00	02	1000	?		1000 N	676484	1153996	GW 08							
	5600091-16	061	01	12.00	02	1000	?		1000 N	676764	1151675	GW 08							
	5600091-17	072	01	12.00	02	1000	?		1000 N	676415	1149249	GW 08							
	5600091-18	072	01	12.00	02	1000	?		1000 N	676518	1146119	GW 08							
	5600091-P1	072	01	72.00	01			14 02	35000 N	670868	1140642	SW 5	WITHDRAWALS FROM C-25						
5600092		185.04	03	149	02	56	9/77	AG GW	7 0	MARNEZ GROVES				08	13	.8	11	149	.5
5600092				149	02									08	13	.8	11	149	.85
	5600092-1	061	01	16.00	02	1300	320	FLO	1500 N	682078.	1151395	GW 08	CAP. ESTIMATED						
	5600092-2	061	01	16.00	02	1100	320	FLO	1500 N	679051	1152345	GW 08	"						
	5600092-3	061	01	5.00	02	1100	300	FLO	250 N	679016.	1151381	GW 08	"						
	5600092-4	061	01	5.00	02	1100	300	FLO	250 N	680187.	1151386	GW 08	"						
	5600092-5	061	01	12.00	02	980	320	FLO	1100 N	683699.	1151402	GW 08	"						
	5600092-6	061	02	5.00	02	1000	300	FLO	250 N	679366.	1153457	GW 08	"						
	5600092-7	061	02	5.00	02	1000	300	FLO	250 N	681082.	1153457	GW 08	ONE 12,000 GPM PUMP NO FUTURE ACCESS TO WATER						
5600093		658	04	108	02	56	9/77	AG BOT	4 1	BERNARD A. EGAN (COLONIAL GROVES)				08	13	.8	11	320	.85
	5600093-6	61	01	14.00	02	N/A	N/A		2000 N	679102.	1158007	GW 08							
	5600093-10	61	01	14.00	02	N/A	N/A		2000 N	679044.	1155099	GW 08							
	5600093-8	61	01	6.00	02	N/A	N/A		400 N	680213.	1156040	GW 08							

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LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcested Agricultural Demand for Each Permit)
=================================================================================================================================
PERMIT   AN.              ALL  MAX    NO.    DATE  USE SRCNO.    SW                                           CROP SOIL  RAIN    IRR    IRR
NO.      ALL.             UNT  NO.    UTS CO ISS.  TYPE  WLS.    PMPS   OWNER         CO  PERMIT NO.  DEV NO.  AQTYPE TYPE  ST     ACRES  EFF
=================================================================================================================================

LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
=================================================================================
PERMIT   FACILITY     QUAD. WELL      DPTH          PMP PUM PUMP
NO.      NUMBER       NO. STSDIA.     COD  TD   CD  INT TYP CAP.  MTR?  XPLNR  YPLNR  SRC  AQ  COMMENTS
=================================================================================================================================
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         5600093-9     61 01     6.00 02 N/A  N/A             400 N   680185. 1155535  GW 08
         5600093-1     61 01     6.00                       35000 N   680485. 1155535  SW  5 C-25, PUMP SHARED BY 3 PROPERTIES, LOC.IS GUESS

 5600096        1573.2    03   579.03 02   56  7/87  AG BOT     21 6  ORANGE-CO. OF FLORIDA,INC.                                        08   13   1.5    11     2012   .5
         5600096-1     72 01     8.00 02 1000   400      FLO   575    669618. 1141525 GW  08 Capacities estimated
         5600096-2     72 01     8.00 02 1000   400      FLO   575    668896. 1143009 GW  08        "
         5600096-3     72 01     8.00 02 1000   400      FLO   575    668856. 1144573 GW  08        "
         5600096-4     72 01     8.00 02 1000   400      FLO   575    669312. 1146423 GW  08        "
         5600096-5     72 01    10.00 02 1000   660      FLO   850    667057. 1146451 GW  08        "
         5600096-6     72 01    10.00 02 1000   660      FLO   850    667060. 1144605 GW  08        "
         5600096-7     72 01    10.00 02 1000   660      FLO   850    667113. 1143067 GW  08        "
         5600096-8     72 01    10.00 02 1000   660      FLO   850    667153. 1141516 GW  08        "
         5600096-9     72 01    10.00 02 1000   660      FLO   850    664528. 1141569 GW  08        "
         5600096-10    72 01    10.00 02 1000   660      FLO   850    664599. 1143099 GW  08        "
         5600096-11    72 01    10.00 02 1000   660      FLO   850    664583. 1144643 GW  08        "
         5600096-12    72 01    10.00 02 1000   660      FLO   850    664556. 1146446 GW  08        "
         5600096-13    71 01    10.00 02 1000   660      FLO   850    660387. 1146376 GW  08        "
         5600096-14    71 01    10.00 02 1000   660      FLO   850    660459. 1144534 GW  08        "
         5600096-15    71 01    10.00 02 1000   660      FLO   850    660529. 1143006 GW  08        "
         5600096-16    71 01    10.00 02 1000   660      FLO   850    660567. 1141366 GW  08        "
         5600096-17    71 01    10.00 02 1000   660      FLO   850    656934. 1141436 GW  08        "
         5600096-18    71 01    10.00 02 1000   660      FLO   850    656978. 1143014 GW  08        "
         5600096-19    71 01    10.00 02 1000   660      FLO   850    656859. 1144551 GW  08        "
         5600096-20    71 01    10.00 02 1000   660      FLO   850    656928. 1146394 GW  08        "
         5600096-21    72 01     6.00 02  600   300      FLO   250    669784. 1145329 GW  08        "
         5600096-1     72 01    42.00 --- ---   --- --- 02 25,000     670539. 1140691 SW   5              C-25
         5600096-2     72 01    20.00 --- ---   --- --- 02  8,000     670543. 1140698 SW   5              C-25
         5600096-3     72 01    42.00 --- ---   --- --- 02 25,000     662849. 1140767 SW   5              C-25
         5600096-4     71 01    24.00 --- ---   --- --- 02 10,000     656323. 1140703 SW   5              C-25
         5600096-5     71 01    42.00 --- ---   --- --- 02 25,000     658869. 1140719 SW   5              C-25
         5600096-6     72 01    20.00 --- ---   --- --- 02  8,000     658869. 1140719 SW   5              C-25

 5600097         142.0    03     0.50 01   56 10/77 PWS          3 0  SPANISH LAKES MOBILE HOME PARK
         5600097-1     84 01     8.00 02   80    60     02     220 Y  723941. 1084664 GW  02
         5600097-R2    84 01     8.00 02   80    60     02     220 Y  723969. 1085831 GW  02
         5600097-3     84 01     8.00 02   80    60     02     220 Y  724460. 1084436 GW  02                 ORIGINAL WELL PLUGGED, REPLACED BY:R-2 WELL
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5600098		595.14	03	111.75 02	56	9/77	AG GW	13 0	GRANADA RANCH (PALE & SONS)			
5600098				35.55 02								
	5600098-7		059 01	8.00 02	1200	400	FLOW	500 N	612874 1160082 GW 08	This permit has been		08 13 1.5 11 640 .5
	5600098-10		059 01	6.00 02			FLOW	300 N	610432 1171937 GW 08	modified, a smaller acreage is		08 13 1.5 11 210 .85
	5600098-11		059 01	6.00 02			FLOW	300 N	610354 1167695 GW 08	permitted with less alloc.		
	5600098-12		059 01	6.00 02			FLOW	250 N	614129 1169624 GW 08	The R.C. spreadsheet doesn't		
	5600098-13		059 01	6.00 02			FLOW	612 N	613418 1166391 GW 08	reflect this yet		
	5600098-13a		059 01	8.00 02	1200	400	FLOW	780 N	611877 1170022 GW 08			
	5600098-14		059 01	8.00 02	1200	400	FLOW	915 N	611873 1163968 GW 08			
	5600098-14a		059 01	8.00 02	1200	400	FLOW	318 N	612336 1166893 GW 08			
	5600098-15		059 01	6.00 02				60 N	613230 1161648 GW 08			
	5600098-16		059 01	6.00 02				350 N	611071 1161037 GW 08			
	5600098-18		059 01	6.00 02				290 N	612792 1157356 GW 08			
	5600098-19		059 01	8.00 02	1200	400		700 N	611836 1159373 GW 08			
	5600098-20		059 01	6.00 02				290 N	612623 1153209 GW 08			
5600099		43.6	03	4.52 02	56	11/77	AG GW	2 0	D.B. PALMER			
	5600099-1		72 03	4.00 02	---	---	FLOWING	100 N	691371. 1145437 GW 02	Cap. estimated		08 13 .8 11 26 .5
	5600099-2		72 04	4.00 02	---	---	FLOWING	100 N	691184. 1145128 GW 02	WELL 2 PLUGGED ALREADY. NOT MAPPED ON QUAD, Cap est.		
	5600099-3		72 01	10.00 02	---	---	FLOWING	1300 N	691683. 1144657 GW 02	Soil type is guess		
	5600099-4		72 01	3.00 02	---	---	FLOWING	115 N	691683. 1144657 GW 02	WELL 99-4 LOC. IS A GUESS		
5600100W		265.12	03	1.37 01	56	11/87	GLF	4 7	TOLLMAN-HUNDLEY SPB, Club Med.		56	02 15 .8 4 234 .75
	5600100-P11		84 01	8.00 02	100	60	N/A 02	200 N	725321. 1061391 GW 02			
	5600100-P12		84 02	8.00 02	100	60	N/A 02	300 N	726664. 1064745 GW 02			
	5600100-P13		84 02	8.00 02	100	60	N/A 02	300 N	726277. 1062020 GW 02			
	5600100-P14		84 02	8.00 02	100	60	N/A 02	300 N	724148. 1061544 GW 02			
	5600100-PS#1		84 01	N/A ---	---	---	N/A 01	800 N	722692. 1064362 SW 99	ON SITE LAKES, LAKE MANAKA, Cap.is guess		
	5600100-PS#1		84 01	N/A ---	---	---	N/A 01	800 N	722856. 1064496 SW 99	LAKE MANAKA Cap is guess		
	5600100-PS#2		84 01	N/A ---	---	---	N/A 01	800 N	726572. 1062973 SW 99	LAKE WESTMORELAND, ""		
	5600100-PS#2		84 01	N/A ---	---	---	N/A 01	800 N	726674. 1062866 SW 99	LAKE WESTMORELAND, ""		
	5600100-PS#3		84 01	8.00 ---	---	---	N/A 01	800 N	724593. 1061517 SW 99	LAKE SAKURA, ""		
	5600100-PS#3		84 01	8.00 ---	---	---	N/A 01	800 N	724593. 1061517 SW 99	LAKE SAKURA, ""		
	5600100-PS#3		84 01	6.00 ---	---	---	N/A 01	800 N	724593. 1061517 SW 99	LAKE SAKURA, ""		
5600101W		57.54	03	9.79 02	56	3/89	GLF BOT	1 1	INDIAN PINES GOLF CLUB(CHW PROP., INC.		56	08 15 .8 11 50.4 .75
	5600101-1		61 01	8.00 02	900	340	FLOWING	500 N	700673. 1164274 GW 08			
	5600101-1		61 01	4.00 ---	---	---	POND	800 N	700603. 1164019 SW 99	ON SITE LAKE		
5600102W		5767	03	15.80 01	56	2/88	MIN	0 3	FLORIDA ROCK INDUSTRIES INC.			
	5600102-1		82 01	24.00 ---	---	--- ---	N/A	12000 N	656202. 1060596 SW 99	PUMPS MOVE OVERTIME		
	5600102-2		82 01	24.00 ---	---	--- ---	N/A	12000 N	655842. 1060559 SW 99	TOWARD ACTIVE MINING		
	5600102-3		94 01	18.00 ---	---	--- ---		N	654207. 1058623 SW 99	COCN 6000		
5600103W		665.37	03	32.33 02	56	9/87	AG	1 2	GULFSTREAM GROVES (STRAZZULLA BROTHS. C		56	08 13 1.5 11 168.5 .75
5600103W											56	08 13 1.5 11 574.5 .85
5600103W											56	08 13 1.5 11 601 .75
	5600103-1		71 01	8.00 02	1200	80	FLOWING	800 N	655951. 1147325 GW 08			
	5600103-A		71 01	24.00 ---	---	---	ELE	10000 N	656108. 1147434 SW 99	C-25		
	5600103-B		71 01	24.00 ---	---	---	DIE	9000 N	646994. 1148653 SW 99	MIN.		
5600104W		26.1	04	3.46 02	56	--	AG GW	1 0	LARRY McIVER GROVES		56	08 13 .8 11 20 .50

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LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
==========================================================================================================================
PERMIT   AN.               ALL  MAX     NO.     DATE  USE SRCNO.    SW                                                         CROP SOIL  RAIN     IRR   IRR
NO.      ALL.              UNT  NO.     UTS CO  ISS.  TYPE   WLS.   PMPS   OWNER                      CO  PERMIT NO.  DEV NO.  AQTYPE TYPE  ST       ACRES  EFF
==========================================================================================================================

LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
==========================================================================================================================
PERMIT   FACILITY     QUAD.  WELL        DPTH            PMP PUN PUMP
NO.      NUMBER       NO. STSDIA.        COD   TD   CD   INT TYP CAP.  MTR?  XPLNR  YPLNR  SRC  AQ  COMMENTS
==========================================================================================================================
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         5600104-1     61 01    4.00 02  N/A    N/A FLOWING    80     688161. 1153044  GW 08

5600105W       26.59     03     9.78 02   56 12/77  AG BOT     1 1    WARNER GROVES, INC.           56                   08   13   .8    11       34  .50
         5600105-1     61 01    5.00 02  800   300 FLOW      200 N    688651. 1151526  GW 08
         5600105-P1    61 01   24.00 01          .  7.75 1  6000 N    689278. 1152236  SW 99 CANAL #1 TAYLOR CRK.

5600106W        1288     03     4.74 02   56  3/89  AG GW      1 0    SEMINOHLE GROVES              56                   08   13   .8    11       28  .85
         5600106-6     72 01    6.00 02  800   300 --- 01    500 N    690041. 1141796  GW 08                    PUMPED

5600107W       61.48     03    10.16 02   56    --  AG GW      4 0    MCIVER, LARRY L.              56                   08   13   1.5   11       60  .85
5600107W                       12.47 02                                                             56                   08   13   1.5   11       65  .75
         5600107-1     72 01    4.00 02    ?     ?   ? 01     80 N    692623. 1149626  GW 08
         5600107-2     72 01    5.00 02              ? 01    150 N    692807. 1148718  GW 08
         5600107-3     72 01    6.00 02            FLOW      200 N    693434. 1149529  GW 08
         5600107-4     72 01    6.00 02            FLOW      200 N    694154. 1149533  GW 08

5600111W        2921     03    23.02 02   56  7/87  AG BOT     1 1    COCA-COLA FOODS (CLOUD GROVE)  56                  08   13   1.5   11       80  .50
5600111W                                                                                             56                  08   13   1.5   11      320  .75
5600111W                                                                                             56                  08   13   1.5   11     5852  .85
         5600111-A     60 01   10.00 02  785   285 FLOWING   850 N    645871. 1159199  GW 08 Cap. is guess
         5600111-B     71 01   23.00 --- ---   --- ---      1000 N    641566. 1146515  SW 99           C-25

5600112W          72     04     6.92 02   56  2/78  AG GW      1 0    CLEORA & LINN NELSON          56                   08   13   .8    11       35  .50
         5600112-1     61 01    4.00 N/A N/A   N/A FLOWING   200 N    687057. 1155080  GW 08

5600113W       32.84     03    12.09 02   56 12/78  AG BOT     1 1    MARNEZ GROVES                 56                   08   13   .8    11       42  .50
         5600113-1     61 01    5.00 02  800   300 FLOW      300 N    687555. 1154954  GW 08
         5600113-2     61 01   24.00 01           10.201   10000 N    687559. 1153945  SW 99

5600114W         4.6     02     4.60 02   56  3/89  AG GW      2 0    CHRIST M. RUSSOS              56                   08   13   1.5   11       10  .85
         5600114-1     61 01    4.00 02  800   150 --- 01    100 N    689331. 1166777  GW 08
         5600114-2     61 01    4.00 02  800   150 --- 01    100 N    688828. 1166461  GW 08

5600116W     3524.16     03  1297.09 02   56  6/89  AG BOT    29    2 EVANS PROPERTIES (BLUEF       56                   08   13   .8    12     7662  .85
         5600116-1     082 01 6          02 1200   N/A FLOWFLO   200  NO 629865. 1075448  GW 08
         5600116-2     082 01 8          02 1200   340 FLOWFLO  1100  NO 628394. 1070721  GW 08
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5600116-3	082	01	8	02	1200	360	FLOWFLO	1000	NO	633702.	1070960	GW	08	
5600116-4	082	01	6	N/AN/A		N/A	FLOWFLO	180	NO	631422.	1073021	GW	08	
5600116-5	082	01	6	N/AN/A		N/A	FLOWFLO	75	NO	634648.	1070060	GW	08	
5600116-6A	082	01	10	02	800	367	FLOWFLO	1500	NO	632948.	1067715	GW	08	
5600116-7	094	01	6	N/AN/A		N/A	FLOWFLO	700	NO	633513.	1065212	GW	08	
5600116-8	094	01	8	02	1250	395	FLOWFLO	1000	NO	635329.	1062743	GW	08	
5600116-9	094	01	6	N/AN/A		N/A	FLOWFLO	180	NO	628107.	1063558	GW	08	
5600116-10	094	01	12	02	960	620	FLOWFLO	1100	NO	621762.	1069374	GW	08	
5600116-11	094	01	12	02	920	611	FLOWFLO	1100	NO	636010.	1045177	GW	08	
5600116-12	082	01	6	N/AN/A		N/A	FLOWFLO	180	NO	630692.	1071769	GW	08	
5600116-13	082	01	16	02	1430	406	FLOWFLO	1500	NO	637425.	1034646	GW	08	
5600116-14	082	01	10	02	1114	370	FLOWFLO	800	NO	626902.	1066754	GW	08	
5600116-15	082	01	10	02	1114	380	FLOWFLO	800	NO	629950.	1066857	GW	08	
5600116-16	082	01	10	02	1120	380	FLOWFLO	700	NO	628920.	1060815	GW	08	
5600116-17	094	01	10	02	1135	380	FLOWFLO	800	NO	633761.	1056287	GW	08	
5600116-18	094	01	10	02	1100	395	FLOWFLO	800	NO	629935.	1058559	GW	08	
5600116-19	094	01	10	02	1100	360	FLOWFLO	800	NO	633875.	1058449	GW	08	
5600116-20	094	01	10	02	1050	480	FLOWFLO	800	NO	634201.	1051266	GW	08	
5600116-21	094	01	10	02	1100	350	FLOWFLO	800	NO	635370.	1042719	GW	08	Cap is estimate
5600116-22	082	01	10	02	1100	350	FLOWFLO	800	NO	624671.	1066219	GW	08	"
5600116-23	082	01	10	02	1100	350	FLOWFLO	800	NO	629784.	1064726	GW	08	"
5600116-24	082	01	10	02	1100	350	FLOWFLO	800	NO	632487.	1061719	GW	08	"
5600116-25	082	02	10	02	1100	350	FLOWFLO	800	NO	634843.	1034751	GW	08	"
5600116-26	082	02	10	02	1100	350	FLOWFLO	800	NO	635801.	1033867	GW	08	"
5600116-27	082	02	10	02	1100	350	FLOWFLO	800	NO	634847.	1032881	GW	08	"
5600116-28	082	02	10	02	1100	350	FLOWFLO	800	NO	634904.	1031357	GW	08	"
5600116-29	082	02	10	02	1100	350	FLOWFLO	800	NO	631922.	1068385	GW	08	"
5600116-P1	082	01	---	------		---		5000	NO	636427.	1073943	SW	99	C-23, Cap is GUESS,2-WAY
5600116-P2	082	01	---	---	---	---		5000	NO	636467.	1061873	SW	99	C-23, Cap is GUESS,2-WAY
5600118W	1028.32	03	299.99	02	56	3/89	AG BOT	19	4	E.C. LUNSFORD			56	5600118S/W 56 08 61 .8 11 1180 .50
5600118-1	083	01	8.00	02	900	250	FLOWFLO	305	NO	679433.	1093533	GW	08	
5600118-2	083	01	8.00	02	900	250	FLOWFLO	305	NO	682910.	1094667	GW	08	
5600118-4	083	01	8.00	02	900	250	FLOWFLO	305	NO	685131.	1103913	GW	08	
5600118-6	083	01	8.00	02	100	---	FLOWFLO	300	NO	685639.	1102536	GW	02	
5600118-7	083	01	8.00	02	100	---	FLOWFLO	300	NO	684690.	1097725	GW	02	
5600118-9	083	01	10.00	02	100	90	FLOWFLO	300	NO	684198.	1097638	GW	02	
5600118-10	083	01	4.00	02	80	57	FLOWFLO	350	NO	680566.	1097051	GW	02	
5600118-5	083	01	8.00	02	900	---	FLOWFLO	120	NO	681976.	1099896	GW	08	
5600118-8	083	01	4.00	02	900	300	FLOWFLO	305	NO	684105.	1101854	GW	08	
5600118-16	083	01	8.00	02	900	300	FLOWFLO	150	NO	693973.	1103510	GW	08	
5600118-17	083	01	4.00	02	900	300	FLOWFLO	305	NO	684078.	1104956	GW	08	
5600118-11A	083	01	4.00	02	57	---	--- ---	150	NO	684100.	1102575	GW	02	
5600118-11B	083	01	4.00	02	57	---	--- ---	220	NO	684271.	1102611	GW	02	
5600118-12A	083	01	4.00	02	57	---	--- ---	220	NO	684271.	1102611	GW	02	LOC. IS GUESS
5600118-12B	083	01	4.00	02	57	---	--- ---	220	NO	684271.	1102611	GW	02	LOC. IS GUESS
5600118-13A	083	01	4.00	02	57	---	--- ---	140	NO	681939.	1099415	GW	02	
5600118-13B	083	01	4.00	02	57	---	--- ---	140	NO	682116.	1099422	GW	02	
5600118-14	083	01	8.00	02	80	---	--- ---	550	NO	690996.	1100023	GW	02	
5600118-15	083	01	8.00	02	80	---	--- ---	200	NO	682026.	1098163	GW	02	
5600118-18	083	01	---	---	---	---	--- ---	10000	NO	691496.	1100355	SW	99	
5600118-20	083	01	---	---	---	---	--- ---	10000	NO	681940.	1098885	SW	99	

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================================================================================================
LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
=====================================================================================================================
PERMIT    AN.                ALL  MAX    NO.      DATE  USE SRCNO.    SW                                                        CROP SOIL  RAIN     IRR    IRR
NO.       ALL.               UNT  NO.    UTS CO  ISS.  TYPE   WLS.   PMPS   OWNER                      CO  PERMIT NO.  DEV NO.  AQTYPE TYPE   ST     ACRES  EFF
=====================================================================================================================

LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
=================================================================
PERMIT    FACILITY     QUAD.  WELL        DPTH            PMP PUM PUMP
NO.       NUMBER       NO. STSDIA.        COD  TD    CD   INT TYP CAP.  MTR?  XPLNR   YPLNR   SRC  AQ  COMMENTS
=====================================================================================================================
=====================================================================================================================


          5600118-21   083 01       --- --- ---   --- --- ---  10000  NO 681941. 1101927  SW 99 )PUMPS-DRAINAGE ONLY
          5600118-19   083 01       --- --- ---   --- --- ---  10000  NO 666367. 1094879  SW 99

5600119W        455.35      03     167.6 02   56 10/87  AG BOT    - 3   5 R.D. GROVE ENTERP.INC.          56                 08   13   1.5    11      990  .85
          5600119-A    060 01       8.00 02 1000   300 FLOWFLO   575  NO 661712. 1152476  GW 08 Cap est.
          5600119-D    060 01       8.00 02 1000   300 FLOWFLO   575  NO 658502. 1158654  GW 08 160 ACRE ONSITE, Cap est.
          5600119-E    060 01       8.00 02 1000   300 FLOWFLO   575  NO 656502. 1157797  GW 08 RESERVOIR,            ""
          5600119-P1   060 01       --- --- ---   ---          12000  NO 656602. 1151345  SW 99
          5600119-P2   060 01       --- --- ---   ---          27000  NO 661775. 1151299  SW 99 C-25 SOURCE FILLS DITCH
          5600119-P3   060 01       --- --- ---   ---           5500  NO 661690. 1154326  SW 99 ADJACENT TO MINUTE MAID CANAL
          5600119-P4   060 01       --- --- ---   ---          27000  NO 661660. 1154742  SW 99
          5600119-P5   060 01       --- --- ---   ---          36000  NO 656563. 1156436  SW 99 PUMPS 2,3,4,5(DISCHARGE ONLY)

5600120W                           18.4 02   56    ---  -- GW       5   0 MINTON, E.G.                    56                 8,2  20    .8    11      500  .50
          5600120-1    062 01       4.00 02              FLOW      95   N  703600 1153900  GW 08 Permit expired waiting
          5600120-2    062 01       5.00 02              FLOW     105   N  702900 1157000  GW 08 on renewal letter response.
          5600120-3    061 01       2.00 02   85    85              75   N  699950 1157500  GW 02
          5600120-4    062 01       2.00 02   85    85              75   N  705300 1157050  GW 02
          5600120-5    062 01       2.00 02   85    85              75   N  705400 1157050  GW 02

5600122W         86.8       04     13.8 02   56  4/78  AG BOT     *1   1 M.R. FARINA                     56                 08   13   1.5    11     34.4  .50
          5600122-1    072 01       2.00 02  160   150 PUMP--    150  NO 689578. 1140713  GW 02 *3 FLOWING FLORIDAN
          5600122-2    072 01       --- --- ---   --- --- POR   1500  NO 689418. 1140522  SW 99 WELLS ON ADJECENT PROP.

5600123W         38.4       03     23.3 02   56  4/78  AG BOT      8   2 LAMBETH CITRUS PROD.INC.        56                 08   13   1.5    11    126.4  .50
          5600123-1    061 01       6.00 02  900   --- FLOWFLO   400  NO 683629. 1166957  GW 08
          5600123-2    061 01       4.00 02  ---   --- FLOWFLO   100  NO 683217. 1166048  GW 08
          5600123-3    061 01       4.00 02  ---   --- FLOWFLO    85  NO 683434. 1166069  GW 08
          5600123-4    061 01       4.00 02  ---   --- FLOWFLO   125  NO 683706. 1166016  GW 08
          5600123-5    061 01       4.00 02  ---   --- FLOWFLO    85  NO 683988. 1166027  GW 08
          5600123-6    061 01       4.00 02  ---   --- FLOWFLO    80  NO 682194. 1166109  GW 08
          5600123-7    061 01       4.00 02  ---   --- FLOWFLO    80  NO 682415. 1166360  GW 08
          5600123-8    061 01       4.00 02  ---   --- FLOWFLO    85  NO 682208. 1166866  GW 08
          5600123-P1   061 01       --- --- ---   --- --- 2WA  10000  NO 681768. 1167338  SW 99 FT. PIERCE FMS. D.D.
          5600123-P2   061 01       --- --- ---   --- --- 2WA   6000  NO 684190. 1166971  SW 99 FT. PIERCE FMS. D.D.
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5600124W		50.2	03	14.8	02	56	4/78	AG GW	2 1					LILLIAN DUGAN	56	08	13	.8	11	75	.50
	5600124-1		061 01	6.00	02	900	---	FLOWFLO	352	NO	689016.	1156054	GW 08								
	5600124-2		061 01	4.00	---	---	---	FLOWFLO	60	NO	688999.	1155854	GW 08								
	5600124-P1		061 01	---	---	---	---	FLOW---	6000	NO	689183.	1154121	SW 99	DISCHARGE ONLY							
5600125W		31.28	03	11.51	02	56	6/89	AG GW	3 0					JIM G. RUSSAKIS (GROVES)	56	08	13	.8	11	40	.50
	5600125-1		061 01	4.00	02	700	---	FLOWFLO	300	NO	687487.	1166606	GW 08								
	5600125-2		061 01	5.00	02	700	---	FLOWFLO	400	NO	688073.	1166393	GW 08								
	5600125-3		061 01	6.00	02	700	---	FLOWFLO	600	NO	688048.	1165921	GW 08								
5600126W		26.8	03	7.91	02	56	4/78	AG GW	1 0					LUENKEN-SHAW GROVES	56	08	13	.8	11	40	.50
	5600126-1		072 01	6.00	02	800	---	FLOWFLO	450	NO	694124.	1110105	GW 08								
5600127W		52.3	03	15.4	02	56	4/78	AG GW	3 0					LEVERETT-SHAW GROVES	56	08	13	.8	11	78	.50
	5600127-1		072 01	4.00	02	800	---	FLOWFLO	150	NO	694704.	1112937	GW 08								
	5600127-2		072 01	5.00	02	800	---	FLOWFLO	250	NO	694571.	1112279	GW 08								
	5600127-3		072 01	3.00	02	800	---	FLOWFLO	75	NO	694238.	1113441	GW 08								
5600128W		17.7	03	3.39	02	56	2/89	AG SW	0 1					BENSON O. YOUNT	56	99	20	.8	11	17.7	.50
	5600128-P1		061 01	---	---	---	---	--- POR	600	NO	692082.	1157126	SW 99	FT. PIERCE FMS. D.D. CANAL							
5600129W		89.14	03	32.81	02	56	10/87	AG GW	5 0					W.C. GARVES JR.(PINK & WATSON GRVS.)	56	08	13	1.5	11	114	.50
	5600129-1		071 01	4.00	02	580	210	FLOWFLO	100	---	662039.	1126264	GW 08	Cap. estimated							
	5600129-2		071 01	5.00	02	610	225	FLOWFLO	250	---	662186.	1125633	GW 08	"							
	5600129-3		071 01	5.00	02	610	230	FLOWFLO	250	---	660465.	1124878	GW 08	"							
	5600129-4		071 01	4.00	02	590	215	FLOWFLO	100	---	661048.	1124875	GW 08	"							
	5600129-5		071 01	6.00	02	685	245	FLOWFLO	250	---	662053.	1124808	GW 08	"							
5600130W		683.4	03	251.53	02	56	10/87	AG BOT	35 1					W.C. GRAVES JR. (MCCARTY GROVES)	56	08	13	1.5	11	874	.50
	5600130-1		071 01	5.00	02	650	290	FLOWFLO	250	---	656478.	1115649	GW 08	Capacity Estimated							
	5600130-2		071 01	5.00	02	600	295	FLOWFLO	250	---	657008.	1115609	GW 08	"							
	5600130-3		071 01	5.00	02	610	295	FLOWFLO	250	---	657882.	1115594	GW 08	"							
	5600130-4		071 01	5.00	02	675	290	FLOWFLO	250	---	657911.	1114982	GW 08	"							
	5600130-5		071 01	5.00	02	550	290	FLOWFLO	250	---	656909.	1113910	GW 08	"							
	5600130-6		071 01	5.00	02	625	300	FLOWFLO	250	---	656083.	1112852	GW 08	"							
	5600130-7		071 01	5.00	02	685	310	FLOWFLO	250	---	655115.	1113374	GW 08	"							
	5600130-8		071 01	8.00	02	960	350	FLOWFLO	575	---	652969.	1113261	GW 08	"							
	5600130-9		071 01	5.00	02	710	305	FLOWFLO	250	---	652969.	1113261	GW 08	LOC. IS GUESS, ""							
	5600130-10		071 01	6.00	02	690	295	FLOWFLO	250	---	652479.	1112296	GW 08	"							
	5600130-11		071 01	5.00	02	685	310	FLOWFLO	250	---	653569.	1112273	GW 08	"							
	5600130-12		071 01	5.00	02	590	285	FLOWFLO	250	---	652405.	1111465	GW 08	"							
	5600130-13		071 01	6.00	02	700	315	FLOWFLO	250	---	653740.	1111534	GW 08	"							
	5600130-14		071 01	5.00	02	675	295	FLOWFLO	250	---	655105.	1111561	GW 08	"							
	5600130-15		071 01	5.00	02	625	310	FLOWFLO	250	---	656067.	1112079	GW 08	"							
	5600130-16		071 01	5.00	02	635	310	FLOWFLO	250	---	656954.	1112110	GW 08	"							
	5600130-17		071 01	5.00	02	650	325	FLOWFLO	250	---	657618.	1112136	GW 08	"							
	5600130-18		071 01	6.00	02	720	350	FLOWFLO	250	---	656875.	1111527	GW 08	"							
	5600130-19		071 01	6.00	02	725	330	FLOWFLO	250	---	659127.	1110279	GW 08	"							
	5600130-20		071 01	4.00	02	525	300	FLOWFLO	100	---	658404.	1110128	GW 08	"							
	5600130-21		071 01	4.00	02	530	300	FLOWFLO	100	---	660197.	1109558	GW 08	"							
	5600130-22		071 01	5.00	02	610	325	FLOWFLO	250	---	658974.	1109375	GW 08	"							
	5600130-23		071 01	5.00	02	560	295	FLOWFLO	250	---	657802.	1108907	GW 08	"							

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LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
=========================================================================================================
PERMIT   AN.            ALL MAX  NO.    DATE USE SRCNO.   SW                                                  CROP SOIL RAIN   IRR   IRR
NO.      ALL.           UNT MO.  UTS CO ISS. TYPE  WLS.   PMPS  OWNER              CO PERMIT NO. DEV NO. AQTYPE TYPE  ST     ACRES EFF
=========================================================================================================

LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
=========================================================================================================
PERMIT   FACILITY   QUAD. WELL    DPTN         PMP PUM PUMP
NO.      NUMBER     NO. STSDIA.   COD  TD   CD  INT TYP CAP.  MTR?  XPLNR   YPLNR  SRC  AQ  COMMENTS
=========================================================================================================
=========================================================================================================

         5600130-24  071 01   6.00 02  810   320 FLOWFLO   250 --- 651694. 1108447  GW 08      "
         5600130-25  071 01   5.00 02  785   325 FLOWFLO   250 --- 650811. 1108456  GW 08      "
         5600130-26  071 01   6.00 02  830   340 FLOWFLO   250 --- 652199. 1109467  GW 08      "
         5600130-27  071 01   6.00 02  835   335 FLOWFLO   250 --- 649895. 1109606  GW 08      "
         5600130-28  071 01   8.00 02  990   360 FLOWFLO   575 --- 649819. 1110336  GW 08      "
         5600130-29  071 01   6.00 02  840   325 FLOWFLO   250 --- 651064. 1110666  GW 08      "
         5600130-30  071 01   6.00 02  825   330 FLOWFLO   250 --- 651180. 1111121  GW 08      "
         5600130-31  071 01   8.00 02  925   310 FLOWFLO   575 --- 649835. 1111687  GW 08      "
         5600130-32  071 01   8.00 02  900   315 FLOWFLO   575 --- 651664. 1111720  GW 08      "
         5600130-33  071 01   5.00 02  650   320 FLOWFLO   250 --- 650922. 1112292  GW 08      "
         5600130-34  071 01   4.00 02  535   270 FLOWFLO   100 --- 649815. 1112954  GW 08      "
         5600130-35  071 01   6.00 02  875   335 FLOWFLO   250 --- 652392. 1113307  GW 08      "
         5600130-P1  071 01    --- --- ---   --- 16.3     6000  NO 651027. 1113408  SW 99    C-70,PTO

5600131W       6.7     03   3.00 02   56 11/78  AG GW      2 0  MILDRED N. ROCK              56        08  13  1.5   11     10 .50
         5600131-1   072 01   5.00 02 1025   400 FLOWFLO   125  NO 692183. 1136930  GW 08
         5600131-2   072 01   4.00 02  920   300 FLOWFLO    75  NO 692203. 1136691  GW 08 PRIVATE WATER SUPPLY ONLY

5600132W     59.43     03  21.87 02   56 10/87  AG BOT     4   1 W.C. GRAVES,JR. (STEIN 3)   56        08  13  1.5   11     76 .50
         5600132-1   083 01   5.00 02  705   295 FLOWFLO   100  NO 665877. 1094360  GW 08 Estimated Cap.
         5600132-2   083 01   4.00 02  625   275 FLOWFLO   250  NO 666346. 1094368  GW 08      "
         5600132-3   083 01   5.00 02  725   265 FLOWFLO   250  NO 666667. 1093439  GW 08      "
         5600132-4   083 01   5.00 02  725   265 FLOWFLO   250  NO 665895. 1092686  GW 08      "
         5600132-P1  083 01    --- --- ---   --- 13.5    10000  NO 668315. 1093484  SW 99    C-107,2-way

5600133W    118.85     03  43.74 02   56 10/87  AG GW      6 0  W.C.GRAVES,(SLOTT GROVE)     56        08  13  1.5   11    152 .50
         5600133-1   083 01   6.00 02  785   290 FLOW---   250  NO 670673. 1103684  GW 08 Cap. estimated
         5600133-2   083 01   5.00 02  770   290 FLOW---   250  NO 669681. 1103694  GW 08      "
         5600133-3   083 01   6.00 02  610   285 FLOW---   250  NO 668951. 1103693  GW 08      "
         5600133-4   083 01   4.00 02  500   275 FLOW---   100  NO 668935. 1102930  GW 08      "
         5600133-5   083 01   6.00 02  625   290 FLOW---   250  NO 668521. 1102613  GW 08      "
         5600133-6   083 01   6.00 02  625   290 FLOW---   250  NO 669635. 1102116  GW 08      "

5600134W      50.2     03   14.8 02   56  6/78  AG GW      5 0  W.C. GRAVESJR.               56        08  13  1.5   11     75 .50
         5600134-1   072 01   4.00 --  N/A   N/A FLOWFLO   100  NO 669741. 1123983  GW 08
         5600134-2   072 01   5.00 --  N/A   N/A FLOWFLO   165  NO 669513. 1123608  GW 08
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	5600134-3	072 01	3.00 --	N/A	N/A	FLOWFLO	75	NO 669131. 1123141	GW 08								
	5600134-4	072 01	5.00 --	N/A	N/A	FLOWFLO	300	NO 669692. 1122715	GW 08								
	5600134-5	072 03	4.00 --	N/A	N/A		---	NO 669516. 1124071	GW 08	CAPPED							
5600135W	13.2	03	6.13 02	56	6/78	AG BOT	3	1 NATHAN JOHANSON									
	5600135-1	072 01	4.00 02	700	N/A	FLOWFLO	70	NO 702279. 1125279	GW 08	PRIVATE W. SUPPLY ONLY	56	08	13	1.5	11	31	.50
	5600135-2	072 01	3.00 02	700	N/A	FLOWFLO	70	NO 702224. 1124847	GW 08								
	5600135-3	073 01	3.00 02	700	N/A	FLOWFLO	70	NO 703082. 1124410	GW 08								
	5600135-P1	072 01	--- --- ---		---		3000	NO 702577. 1124243	SW 99								
5600136W	59.43	03	21.87 02	56	10/87	AG BOT	2	1 W.C. GRAVES JR.(STEIN 2)									
	5600136-1	083 01	5.00 02	800	305	FLOWFLO	250	NO 665590. 1099519	GW 08	Cap. estimated	56	08	13	.8	11	76	.50
	5600136-2	083 01	6.00 02	785	295	FLOWFLO	250	NO 664542. 1099484	GW 08	"							
	5600136-P1	083 01	--- --- ---		--- 13.3		10000	NO 663286. 1099577	SW 99	"INOPERABLE"							
5600137W	207.99	03	76.55 02	56	10/87	AG GW	7 0	BERNARD EGAN									
	5600137-1	083 01	8.00 02	975	280	FLOWFLO	575	NO 678377. 1094193	GW 08	Cap. estimated	56	08	13	.8	11	266	.50
	5600137-2	083 01	5.00 02	610	275	FLOWFLO	250	NO 675452. 1093751	GW 08	"							
	5600137-3	083 01	6.00 02	610	275	FLOWFLO	250	NO 675240. 1093640	GW 08	"							
	5600137-4	083 01	5.00 02	715	290	FLOWFLO	250	NO 677856. 1093576	GW 08	"							
	5600137-5	083 01	6.00 02	760	295	FLOWFLO	250	NO 678895. 1093434	GW 08	"							
	5600137-6	083 01	5.00 02	760	295	FLOWFLO	250	NO 674860. 1092451	GW 08	"							
	5600137-7	083 01	6.00 02	695	270	FLOWFLO	250	NO 677431. 1092444	GW 08	"							
5600138W	207.99	03	76.55 02	56	10/87	AG BOT	7	2 W. C. GRAVES JR.(STEIN 1)									
	5600138-1	072 01	6.00 02	730	285	FLOWFLO	250	NO 668918. 1109497	GW 08	Cap. estimated	56	08	13	1.5	11	266	.50
	5600138-2	072 01	6.00 02	765	290	FLOWFLO	250	NO 669723. 1108815	GW 08	"							
	5600138-3	072 01	8.00 02	910	275	FLOWFLO	250	NO 668149. 1108799	GW 08	"							
	5600138-4	072 01	5.00 02	830	295	FLOWFLO	250	NO 666894. 1108808	GW 08	"							
	5600138-5	072 01	5.00 02	725	280	FLOWFLO	250	NO 666648. 1108286	GW 08	"							
	5600138-6	072 01	6.00 02	810	295	FLOWFLO	250	NO 664252. 1108339	GW 08	"							
	5600138-7	072 01	5.00 02	785	275	FLOWFLO	250	NO 663580. 1108816	GW 08	"							
	5600138-P1	072 01	--- --- ---		--- 12	PTO	6000	N 669575. 1110620	SW 99								
	5600138-P2	072 01	--- --- ---		--- 12.5	PTO	6000	N 669647. 1108233	SW 99								
5600139W	118.85	03	43.74 02	56	10/87	AG GW	5 0	W.C. GRAVES (MANGER GROVE)									
	5600139-1	071 01	5.00 02	675	205	FLOWFLO	250	NO 653546. 1118621	GW 08	Cap. estimated	56	08	13	.8	11	152	.50
	5600139-2	071 01	5.00 02	680	210	FLOWFLO	250	NO 654750. 1118235	GW 08	"							
	5600139-3	071 01	6.00 02	695	200	FLOWFLO	250	NO 653648. 1117427	GW 08	"							
	5600139-4	071 01	5.00 02	585	213	FLOWFLO	250	NO 653621. 1116315	GW 08	"							
	5600139-5	071 01	8.00 02	960	230	FLOWFLO	575	NO 652439. 1116390	GW 08	"							
5600140W	118.85	03	43.74 02	56	10/87	AG BOT	5	1 W.C. GRAVES,JR. (STEIN #40									
	5600140-1	082 01	4 02	560	195	FLOW	100	N 660617. 1094674	GW 08	Cap. estimated	56	08	13	.8	11	152	.50
	5600140-2	082 01	6 02	635	205	FLOW	250	N 661832. 1094672	GW 08	"							
	5600140-3	082 01	6 02	710	220	FLOW---	250	N 660529. 1093462	GW 08	"							
	5600140-4	082 01	6 02	725	240	FLOW---	250	N 661773. 1093560	GW 08	"							
	5600140-5	082 01	6 02	705	235	FLOW---	250	N 662403. 1092424	GW 08	"							
	5600140-P1	082 01	--- --- ---		--- 14.3		10,000	661625. 1094767	SW 99	C-78 SOURCE							
5600141W	4.15	03	9.82 02	56	6/78	AG GW	1 0	R.& M. BOUDRIAS									
	5600141-1	083 01	3 02	80	50-60	N/A ---	250	N 702410 1101405	GW 02		56	01	13	.8	11	17	.50

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LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
PERMIT    AN.               ALL  MAX    NO.     DATE  USE SRCNO.    SW
NO.       ALL.              UNT  NO.    UTS CO  ISS.  TYPE  WLS.   PMPS   OWNER                          CO  PERMIT NO.  DEV NO.  CROP SOIL  RAIN    IRR   IRR
                                                                                                                                 AQTYPE TYPE  ST     ACRES  EFF

LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
PERMIT    FACILITY     QUAD.  WELL      DPTH             PMP PUM PUMP
NO.       NUMBER       NO. STSDIA.      COD  TD    CD    INT TYP CAP.  MTR?  XPLNR   YPLNR   SRC  AQ  COMMENTS


5600142W         1555     03      5.97 01   56  3/88 PWS GW       21 0   GENERAL DEV. UTIL. (PORT ST.LUCIE)     56                   02 ---   ---   ---      ---  ---
        5600142-1    084 01      8.00 02   95     60 N/A 02     600    Y 713106. 1081354  GW 02
        5600142-2    084 01      8.00 02  103     45 N/A 02     200    Y 713813. 1082268  GW 02
        5600142-3    084 01      8.00 02   90     45 N/A 02     400    Y 713071. 1082096  GW 02
        5600142-4    084 03      8.00 02  114     79 N/A 02     125    Y 710737. 1083830  GW 02
        5600142-6    084 01      8.00 02  111     76 N/A 02     275    Y 709995. 1085133  GW 02
        5600142-7    084 01      8.00 02  111  69.5  68 02      265    Y 709500. 1086889  GW 02
        5600142-8    084 01      8.00 02  111     75  68 02     200    Y 709570. 1087756  GW 02
        5600142-9    084 01      8.00 02  110     65  65 02     320    Y 710903. 1085147  GW 02
        5600142-10   084 01      8.00 02  110     70  63 02     320    Y 710855. 1085866  GW 02
        5600142-11   084 01      8.00 02  111     70  70 02     180    Y 710814. 1086900  GW 02
        5600142-12   084 01      8.00 02  111     71  69 02     255    Y 710598. 1087728  GW 02
        5600142-13   084 01      8.00 02 95.5     71 N/A 02     190    Y 708517. 1085159  GW 02
        5600142-14   084 01      8.00 02  100  54.5 N/A 02      300    Y 710046. 1080336  GW 02
        5600142-15   084 01      8.00 02 99.5     60 N/A 02     300    Y 709116. 1079166  GW 02
        5600142-16   084 01      8.00 02   90  64.5 N/A 02      300    Y 709718. 1078168  GW 02
        5600142-17   084 01      8.00 02  110     55 N/A 02     300    Y 714658. 1079946  GW 02
        5600142-18   084 03      8.00 02   95     50 N/A 02     100    Y 713893. 1078676  GW 02
        5600142-19   084 01      8.00 02   95     60 N/A 02     275    Y 703634. 1084638  GW 02
        5600142-20   084 01      8.00 02  105     57 N/A 02     350    Y 703319. 1085331  GW 02
        5600142-21   084 02      8.00 02   90     45 N/A 02     200    Y 706154. 1088953  GW 02
        5600142-22   084 02      8.00 02   90  41.5 N/A 02      200    Y 710191. 1086882  GW 02

5600144W         10.4     03      3.29 02   56  6/78  AG GW        2 0   D.& L. BRUNO                           56                   08   13    .8    11       19  .50
        5600144-1    072 01      4.00 02  800    --- FLOWFLO    150    N 663536. 1135880  GW 08
        5600144-2    072 01      6.00 02 1000    --- FLOWFLO    400    N 664156. 1135892  GW 08

5600146W           15     03      4.78 02   56  6/78  AG GW        2 1   CLEMENZI GROVE                         56                   08   13    .8    11     27.5  .50
        5600146-1    072 01      4.00 02  ---    --- FLOWFLO    125    N 696433. 1136029  GW 08
        5600146-2    072 01      6.00 02  ---    --- FLOWFLO    400    N 696106. 1135308  GW 08
        5600146-P1   072 01      --- --- ---     --- --- --- 6,000     N 695174. 1134926  SW 99  DISCHARGE ONLY

5600147W       181.68     03     66.87 02   56  7/87  AG BOT       4     1 ORANGE CO. OF FLORIDA                56                   08   13   1.5    11      395  .85
        5600147-1    072 01         8 02  700    300 FLOWFLO    575    N 666777. 1138918  GW 08 Cap. estimated
        5600147-2    072 01         8 02  700    300 FLOWFLO    575    N 666824. 1137439  GW 08       "
        5600147-3    072 01         8 02  700    300 FLOWFLO    575    N 666808. 1136164  GW 08       "
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	5600147-4	072 01	8 02 700	300 FLOWFLO	575	N 666805. 1134892	GW 08	"			
	5600147-P1	072 01	--- --- ---	--- 14.302	12000	N 665549 1140767	SW 99				
5600149W	34.1	03	19.6 02 56	6/78 AG BOT	3	1 EGAN FICKETT CO.			56	08 13 .8 11	18 .50
	5600149-1	072 01	4.00 --- ---	--- FLOWFLO	100	666659. 1126565	GW 08	PERMIT EXPIRED 10/87, Cap estimated			
	5600149-2	072 01	5.00 02 1000	--- FLOWFLO	250	667057. 1126969	GW 08	3 WELLS=TOTAL FLOW @ 550 GPM, ""			
	5600149-3	072 01	5.00 02 1000	--- FLOWFLO	250	667456. 1127928	GW 08	Cap estimated			
	5600149-P1	072 01	--- --- ---	--- ---	6,000	665638. 1126738	SW 99	2WAY			
5600150W	321.24	03	94.59 02 56	8/89 AG GW	20 0	COCA COLA FOODS			56	08 13 .8 11	493 .75
	5600150-1	072 01	6.00 02 550	--- FLOWFLO	220	N 684837. 1125617	GW 08	ALSO PUMPED FOR DRIP IRRIG. SYS.			
	5600150-2	072 01	6.00 02 550	--- FLOWFLO	250	N 686410. 1125582	GW 08	FREEZE PROT. ONLY			
	5600150-3	072 01	6.00 02 550	--- FLOWFLO	250	N 687279. 1125558	GW 08	FREEZE PROT. ONLY			
	5600150-4	072 03	6.00 02 550	--- FLOWFLO	250	N 688174. 1125619	GW 08	FREEZE PROT. ONLY			
	5600150-5	072 01	6.00 02 550	--- FLOWFLO	250	N 688738. 1125625	GW 08	ALSO PUMPED FOR DRIP SYS			
	5600150-6	072 01	6.00 02 550	--- FLOWFLO	250	N 688738. 1125625	GW 08	ALSO PUMPED FOR DRIP SYS, LOC GUESS			
	5600150-7	072 03	6.00 02 550	--- FLOWFLO	250	N 688738. 1125625	GW 08	FREEZE PROT. ONLY, LOC. GUESS			
	5600150-8	072 01	6.00 02 550	--- FLOWFLO	250	N 684745. 1124042	GW 08	FLOW ONLY			
	5600150-9	072 01	6.00 02 550	--- FLOWFLO	250	N 685880. 1124054	GW 08	ALSO PUMPED FOR DRIP SYS.			
	5600150-10	072 01	6.00 02 550	--- FLOWFLO	250	N 687765. 1124040	GW 08	ALSO PUMPED FOR DRIP SYS.			
	5600150-11	072 01	6.00 02 550	--- FLOWFLO	220	N 688899. 1124030	GW 08	ALSO PUMPED FOR DRIP SYS.			
	5600150-12	072 01	6.00 02 550	--- FLOWFLO	160	N 684623. 1122929	GW 08	ALSO PUMPED FOR DRIP SYS.			
	5600150-13	072 01	6.00 02 550	--- FLOWFLO	250	N 685711. 1122896	GW 08	ALSO PUMPED FOR DRIP SYS.			
	5600150-14	072 01	6.00 02 550	--- FLOWFLO	250	N 686944. 1122916	GW 08	ALSO PUMPED FOR DRIP SYS.			
	5600150-15	072 03	6.00 02 550	--- FLOWFLO	250	N 686944. 1122916	GW 08	FREEZE PROT. ONLY, LOC IS GUESS			
	5600150-16	072 03	6.00 02 550	--- FLOWFLO	250	N 689045. 1122897	GW 08	FREEZE PROT. ONLY			
	5600150-17	072 01	6.00 02 550	--- FLOWFLO	250	N 684653. 1121591	GW 08	ALSO PUMPED FOR DRIP SYS.			
	5600150-18	072 01	6.00 02 550	--- FLOWFLO	100	N 686082. 1121636	GW 08	FLOW ONLY			
	5600150-19	072 03	6.00 02 550	--- FLOWFLO	250	N 687296. 1121656	GW 08	FREEZE PROT. ONLY			
	5600150-20	072 03	4.00 02 550	--- --- ---	40	--- 688227. 1121655	GW 08	DOMESTIC USE ONLY, cap estimated			
	5600150-21	072 04	4.00 02 550	--- FLOWFLO	175	N 688227. 1121655	GW 08	LOC. IS GUESS			
	5600150-22	072 01	6.00 02 550	--- FLOWFLO	100	N 688931. 1121643	GW 08				
	5600150-23	072 01	6.00 02 550	--- FLOWFLO	250	N 686000. 1125582	GW 08				
	5600150-24	072 01	4.00 02 550	--- FLOWFLO	175	N 687243. 1124286	GW 08	DOMESTIC USE ONLY			
	5600150-25	072 04	4.00 02 550	--- FLOWFLO	175	N 701778. 1125830	GW 08				
	5600150-26	072 04	4.00 02 550	--- FLOWFLO	175	N 701778. 1125830	GW 08	LOC. IS GUESS			
5600151W	12.1	03	3.55 02 56	7/78 AG GW	2	--- J. HOOD & N. BOUDRIAS			56	08 13 .8 11	18 .50
	5600151-1	072 01	4.00 02 1000	600 FLOWFLO	130	--- 691961. 1118822	GW 08				
	5600151-2	072 01	5.00 02 1000	600 FLOWFLO	210	--- 692255. 1118454	GW 08				
5600152W	54.73	03	20.15 02 56	10/87 AG BOT	2	1 R.DAVIDSON & J.FOWLER(OKEE. EIGHTY)			56	08 13 1.5 11	70 .50
	5600152-1	071 01	4.00 02 860	320 FLOW---	100	--- 661955. 1128024	GW 08	Cap estimated			
	5600152-2	072 01	6.00 02 820	300 FLOW---	250	--- 662237. 1128128	GW 08	"			
	5600152-P1	072 01	--- --- ---	---	4000	--- 662712. 1127623	SW 99	C-59			
5600153W	82.1	03	30.22 02 56	7/89 AG GW	3 0	MARY VAN DER LUGT			56	08 13 .8 11	105 .50
	5600153-1	072 01	6.00 02 800	FLOW FLOW150	250	701778. 1125830	GW 08	Cap estimated for flow wells			
	5600153-2	072 03	4.00 02 500	FLOW FLOW75	100	701834. 1126144	GW 08	WOOD PLUGGED			
	5600153-3	072 01	4.00 02 300	FLOW FLOW100	100	701473. 1127410	GW 08				
5600154W	18.4	03	6.77 02	5/89 AG BOT	2	1 WAYNE CARLTON (W.C.GROVES)			56	08 13 1.5 11	40 .85

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LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
=======================================================================================================
PERMIT   AN.              ALL  MAX    NO.      DATE  USE SRCNO.    SW                                            CROP  SOIL  RAIN    IRR    IRR
NO.      ALL.             UNT  NO.    UTS CO   ISS.  TYPE  WLS.    PMPS   OWNER        CO  PERMIT NO.  DEV NO.  AGTYPE TYPE   ST     ACRES  EFF
=======================================================================================================

LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
=======================================================================================================
PERMIT   FACILITY     QUAD.  WELL     DPTH            PMP PUM PUMP
NO.      NUMBER       NO. STSDIA.     COD  TD    CD   INT TYP CAP.  MTR?  XPLNR   YPLNR   SRC  AQ  COMMENTS
=======================================================================================================
=======================================================================================================

         5600154-1    083 01     6.00 N/A ---     --- FLOWFLO   175 --- 675633. 1100090  GW 08
         5600154-2    083 01     6.00 N/A ---     --- FLOWFLO   305 --- 675651. 1099010  GW 08
         5600154-P1   083 01      --- --- ---     --- --- 01    200 --- 682885. 1102517  SW 99           C-89

5600155W      172.02       03   63.31 02   56  6/89  AG GW     14 0  FIRST AM. BANK & TRUST          56                 2,8  13   1.5    11      220  .50
         5600155-1    073 01     2.00 02 1000      50 FLOWFLO    50 --- 703452. 1132054  GW 08 Cap estimated
         5600155-2    073 01     4.00 02  100     100 --- 01    130 --- 704381. 1131467  GW 02        "
         5600155-3    073 01     4.00 02 1000     100 FLOWFLO   350 --- 704071. 1130865  GW 08        "
         5600155-4    073 01     3.00 02 1000      75 FLOWFLO   300 --- 704343. 1130870  GW 08        "
         5600155-5    073 01     4.00 02 1000     100 FLOWFLO   200 --- 704440. 1130388  GW 08        "
         5600155-6    073 01     4.00 02 1000     100 FLOWFLO   160 --- 704518. 1129010  GW 08        "
         5600155-7    073 02     8.00 02 1000     500 FLOWFLO   500 --- 704676. 1128347  GW 08
         5600155-8    073 02     8.00 02 1000     500 FLOWFLO   500 --- 703726. 1127507  GW 08
         5600155-9    073 02     8.00 02 1000     500 FLOWFLO   500 --- 703807. 1128179  GW 08
         5600155-10   073 02     8.00 02 1000     500 FLOWFLO   500 --- 703784. 1129347  GW 08
         5600155-11   072 02     8.00 02 1000     500 FLOWFLO   500 --- 702551. 1127961  GW 08
         5600155-12   072 02     8.00 02 1000     500 FLOWFLO   500 --- 702549. 1129357  GW 08
         5600155-13   072 02     8.00 02 1000     500 FLOWFLO   500 --- 702579. 1130166  GW 08
         5600155-14   072 02     8.00 02 1000     500 FLOWFLO   500 --- 702575. 1131425  GW 08

5600156W      202.38       03   74.49 02   56  4/88  AG BOT     6  2 TEN MILE CREEK GROVES-UNIT2     56                 08   13   1.5    11      200  .50
         5600156-1    071 02        08 02  900    300 FLOWFLO   300 --- 660193. 1135218  GW 08
         5600156-2    071 02        08 02  900    300 FLOWFLO   500 --- 661628. 1136116  GW 08
         5600156-3    071 02        08 02  900    300 FLOWFLO   300 --- 660205. 1136115  GW 08
         5600156-4    071 02        08 02  900    250 FLOWFLO   375 --- 658896. 1136102  GW 08
         5600156-5    071 02        08 02  900    300 FLOWFLO   550 --- 658906. 1137228  GW 08
         5600156-6    071 02        08 02  900    300 FLOWFLO   400 --- 661606. 1137238  GW 08
         5600156-P1   071 02      --- --- ---     ---   14     8000 --- 660279. 1134944  SW 99       AXIAL,C-57
         5600156-P2   072 02      --- --- ---     ---   14    20000 --- 662896. 1136065  SW 99       AXIAL,C-57

5600157W       82.1        03 30.22   02   56  2/89  AG BOT     4  2 DUNN CITRUS PARTNERSHIP         56                 08   13   1.5    11      105  .50
         5600157-1    072 02     4.00 02  731     255 FLOWFLO    80 --- 665403. 1131766  GW 08
         5600157-2    072 02     5.00 02  665     260 FLOWFLO    75 --- 665046. 1130499  GW 08
         5600157-3    072 02     5.00 02  ---     --- FLOWFLO    75 --- 664455. 1129870  GW 08
         5600157-4    072 02     8.00 02  470     320 FLOWFLO   600 --- 663469. 1129955  GW 08
         5600157-P1   072 02      --- 01  ---     ---   10     8000 --- 665527. 1131253  SW 99           C-57
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	5600157-P2		072 02	--- 01	---	---	10	8000 ---	665461. 1130412	SW 99	C-57							
5600158W		73.7	03	21.7 02	56	7/78	AG GW	3 0	TEN MILE GROVES			56	08	13	.8	11	110	.50
	5600158-1		083 02	6.00 ---	---	---	FLOWFLO	190 ---	671182. 1102575	GW 08								
	5600158-2		083 02	6.00 ---	---	---	FLOWFLO	225 ---	672468. 1101551	GW 08								
	5600158-3		083 02	4.00 ---	---	---	FLOWFLO	95 ---	671506. 1100418	GW 08								
5600159W		12	03	7.47 02	56	7/78	AG BOT	1 1	R&M BOUDRIAS			56	08	13	.8	11	43	.50
	5600159-1		072 02	5 02			FLOWFLO	180 ---	674159. 1113353	GW 08								
	5600159-P1		072 02	--- ---	---	---	---	2500 ---	673973. 1114191	SW 99	PORT.							
5600160W		4.4	03	3.00 02	56	7/78	AG GW	2 0	WOOD & BOUDRIAS(USED BY W. CARLTON)			56	08	13	.8	11	17	.50
	5600160-1		072 02	4.00 02	840	124	FLOWFLO	164 ---	677619. 1114847	GW 08								
	5600160-2		072 02	4.00 02	1000	---	FLOWFLO	130 ---	678878. 1114861	GW 08	* PERMIT IS EXPIRED							
5600161W		19.12	03	11.2 02	56	7/78	AG GW	7 0	PARAMOUNT AQUARIUM INC.			56	08	61	.8	11	46.5	.50
	5600161-1		073 02	5.00 02	700	---	FLOW125	250	710294. 1110191	GW 08	Cap. estimated							
	5600161-2		073 02	6.00 02	700	---	FLOW150	250	709609. 1110170	GW 08	"							
	5600161-3		073 02	6.00 02	700	---	FLOW150	250	709878. 1110163	GW 08	"							
	5600161-4		073 02	6.00 02	700	---	FLOW300	250	709261. 1110273	GW 08	"							
	5600161-5		073 02	6.00 02	700	---	FLOW300	250	709339. 1109860	GW 08	"							
	5600161-6		073 02	6.00 02	700	---	FLOW150	250	708897. 1110173	GW 08	"							
	5600161-7		073 02	3.00 02	600	---	FLOW100	75	708741. 1110521	GW 08	"							
5600162W		633.59	03	233.2 02	56	4/88	AG BOT	4 7	PENN GROVES			56	08	13	1.5	11	775	.50
	5600162-1		072 01	6.00 02	950	300	FLOWFLO	150 ---	667360. 1120213	GW 08								
	5600162-2		072 01	6.00 02	950	300	FLOWFLO	150 ---	667423. 1122874	GW 08								
	5600162-3		072 01	4.00 02	950	250	FLOWFLO	50 ---	672194. 1121398	GW 08								
	5600162-4		072 01	4.00 02	---	---	--- ---	50 ---	673087. 1122050	GW 08	Cap. estimated							
	5600162-P1		072 01	--- 01	---	---	14 02	15000 ---	668028. 1121450	SW 99	C-56							
	5600162-P2		072 01	--- 01	---	---	14 02	15000 ---	668352. 1121453	SW 99	C-55							
	5600162-P3		072 01	--- 01	---	---	14 02	20000 ---	670767. 1121331	SW 99	C-55							
	5600162-P4		072 01	--- 01	---	---	14 02	18000 ---	671039. 1121337	SW 99	C-54							
	5600162-P5		072 01	--- 01	---	---	14 02	20000 ---	676103. 1123641	SW 99	C-55							
	5600162-P6		072 01	--- 01	---	---	12 02	1700 ---	670793. 1120003	SW 99	C-56							
	5600162-P7		072 01	--- 01	---	---	12 02	1500 ---	668076. 1120083	SW 99	C-56							
5600164W		29.32	03	10.79 02	56	7/87	AG BOT	1 1	EASSEN'S GROVE SERVICE			56	08	13	.8	11	37.5	.50
	5600164-1		072 01	6.00 01	800	100	FLOW---	250 ---	674850. 1123617	GW 08	Cap estimated							
	5600164-P1		072 01	--- ---	---	---	---	3000 ---	673435. 1121295	SW 99	PORT..C-23							
5600165W		667.67	03	245.74 02	56	4/89	AG	44 1	TEN MILE CREEK GROVES			56	08	13	.8	11	928	.50
	5600165-1		072 01	8.00 ---	---	---	FLOW	1280 ---	689842. 1118475	GW 08								
	5600165-2		072 01	4.00 ---	---	---	FLOW	200 ---	688602. 1118113	GW 08								
	5600165-3		072 01	4.00 ---	---	---	FLOW	200 ---	689418. 1118372	GW 08								
	5600165-4		072 01	4.00 ---	---	---	FLOW	160 ---	688974. 1117459	GW 08								
	5600165-5		072 01	4.00 ---	---	---	FLOW	180 ---	688305. 1116117	GW 08								
	5600165-6		072 01	5.00 ---	---	---	FLOW	320 ---	688724. 1116312	GW 08								
	5600165-7		072 01	4.00 ---	---	---	FLOW	80 ---	688779. 1114948	GW 08								
	5600165-8		072 01	6.00 ---	---	---	FLOW	470 ---	687817. 1115602	GW 08								
	5600165-9		072 04	4.00 ---	---	---	---	180 ---	687748. 1115816	GW 08	*PLUGGED, Cap estimated							
	5600165-10		072 03	4.00 ---	---	---	---	180 ---	688696. 1119325	GW 08	""							

LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)

PERMIT NO.	AN. ALL.	ALL UNT	MAX NO.	NO. UTS	CO	DATE ISS.	USE TYPE	SRCNO. WLS.	SW PMPS	OWNER	CO	PERMIT NO.	DEV NO.	CROP AGTYPE	SOIL TYPE	RAIN ST	IRR ACRES	IRR EFF

LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)

PERMIT NO. FACILITY NUMBER	QUAD. NO.	WELL STSDIA.	DPTH COD	TD	CD	PMP INT	PUM TYP	PUMP CAP.	MTR?	XPLNR	YPLNR	SRC	AQ	COMMENTS
5600165-11	072	01	6.00	---	---	---	FLOW	450	---	687553.	1116533	GW	08	
5600165-12	072	04	4.00	---	---	---	---	180	---	691038.	1118699	GW	08	*PLUGGED, Cap estimated
5600165-13	072	01	4.00	---	---	---	FLOW	120	---	687549.	1116992	GW	08	
5600165-14	072	01	6.00	---	---	---	FLOW	350	---	687877.	1114067	GW	08	
5600165-15	072	01	4.00	---	---	---	FLOW	200	---	687896.	1113821	GW	08	
5600165-16	072	01	4.00	---	---	---	---	120	---	687583.	1113100	GW	08	Cap. estimated
5600165-17	072	01	6.00	---	---	---	---	450	---	688173.	1112864	GW	08	
5600165-18	072	01	4.00	---	---	---	---	150	---	687543.	1111262	GW	08	
5600165-19	072	01	6.00	---	---	---	FLOW	1000	---	688718.	1111847	GW	08	
5600165-20	072	03	4.00	---	---	---	---	120	---	689240.	1111641	GW	08	Cap est.
5600165-21	072	01	3.00	---	---	---	---	150	---	688481.	1111545	GW	08	
5600165-22	072	03	4.00	---	---	---	FLOW	120	---	688807.	1112679	GW	08	Cap est.
5600165-23	072	01	4.00	---	---	---	---	80	---	688760.	1113414	GW	08	
5600165-24	072	03	4.00	---	---	---	---	120	---	689102.	1114324	GW	08	Cap est.
5600165-25	072	03	4.00	---	---	---	FLOW	120	---	689814.	1115649	GW	08	"
5600165-26	072	01	6.00	---	---	---	FLOW	1000	---	690936.	1116022	GW	08	
5600165-27	072	01	6.00	---	---	---	FLOW	400	---	690181.	1114891	GW	08	
5600165-28	072	01	5.00	---	---	---	FLOW	325	---	689716.	1113612	GW	08	
5600165-29	072	01	5.00	---	---	---	FLOW	250	---	690959.	1113622	GW	08	
5600165-30	072	01	6.00	---	---	---	FLOW	400	---	690207.	1112196	GW	08	
5600165-31	072	01	4.00	---	---	---	FLOW	150	---	690273.	1110946	GW	08	
5600165-32	072	01	6.00	---	---	---	FLOW	225	---	691506.	1110957	GW	08	
5600165-33	072	01	6.00	---	---	---	FLOW	500	---	691012.	1111812	GW	08	
5600165-34	072	01	6.00	---	---	---	FLOW	1000	---	691485.	1112183	GW	08	
5600165-35	072	01	4.00	---	---	---	FLOW	120	---	691497.	1113376	GW	08	
5600165-36	072	01	6.00	---	---	---	FLOW	350	---	691609.	1114778	GW	08	
5600165-37	072	01	4.00	---	---	---	FLOW	350	---	690967.	1114812	GW	08	
5600165-38	072	03	5.00	---	---	---	---	300	---	691517.	1116339	GW	08	Cap est.
5600165-39	072	01	4.00	---	---	---	FLOW	200	---	691646.	1118292	GW	08	
5600165-40	072	03	5.00	---	---	---	---	300	---	691308.	1118463	GW	08	Cap est.
5600165-41	072	01	6.00	---	---	---	---	01 400	---	685089.	1115328	GW	08	
5600165-42	072	01	4.00	---	---	---	---	140	---	686638.	1115174	GW	08	
5600165-43	072	01	6.00	---	---	---	---	1000	---	687561.	1117978	GW	08	
5600165-44	072	01	6.00	---	---	---	---	350	---	687539.	1117805	GW	08	
5600165-P1	072	01	---	---	---	---	---	12000	---	689575.	1115393	SW	99	

5600166W		59.43		03	21.87	02	56	7/87	AG	BOT	1	1	LYNCH,KUMP & STATTEL(CASSEN'S GROVE)										
	5600166-1		072	01	8.00	02	800	100	FLOWFLO		700	---	672209. 1130767	GW	08		56						
	5600166-2		072	01	---	---	---	---	---		10000		673408. 1130772	SW	99	C-54, Cap est.		08	13	.8	11	76	.50
5600167W		14.07		03	5.18	02	56	1/89	AG	GW	1	0	W. STATTLE(CASSEN'S GROVE)										
	5600167-1		073	01	4.00	02	1200	400	FLOWFLO		150	---	703994. 1126480	GW	08		56	08	13	08	11	18	.50
5600168W		179.38		03	66.02	02	56	4/89	AG	BOT	3	1	W.E. REUTER (SHAMROCK GROVES)										
	5600168-1		072	01	8.00	02	300	250	FLOWFLO		780	---	680290. 1121626	GW	08		56	08	13	.8	11	390	.85
	5600168-2		072	03	5.00	02	300	250	---		250	---	679564. 1119353	GW	08	Cap est.							
	5600168-3		072	01	8.00	02	300	250	FLOWFLO		780	---	680973. 1118546	GW	08								
	5600168-P1		072	01	---	01	---	---	12	02	18000	---	678931. 1121511	SW	99	C-52							
5600169W		49.67		03	18.28	02	56	3/89	AG	BOT	2	1	EDSALL GROVE#6										
	5600169-1		061	01	6.00	02	750	294	FLOWFLO		300	---	682334. 1168945	GW	08		56	08	13	1.5	11	80	.85
	5600169-2		061	01	6.00	02	750	294	FLOWFLO		400	---	683646. 1168912	GW	08								
	5600169-P1		061	01	---	01	---	---	15	01	7000	---	684184. 1168342	SW	99								
5600170W		32.6		03	16.00	02	56	3/78	AG	BOT	1	2	WK2GROVES										
	5600170-1		061	01	12.00	---	---	---	FLOWFLO		900	---	693576. 1156095	GW	08		56	08	13	.8	11	81	.50
	5600170-P1		061	01	---	---	---	---	---	01	6000	---	692316. 1157414	SW	99								
	5600170-P2		061	01	---	---	---	---	---	01	6000	---	694756. 1156699	SW	99								
5600171W		6.03		03	3.00	02	56	3/78	AG	BOT	1	1	C&D HOWARD										
	5600171-1		072	01	5.00	02	850	140	FLOWFLO		100	---	699786. 1141006	GW	08		56	08	13	.8	11	9	.50
	5600171-P1		072	01	---	---	---	---	---	01	700	---	698832. 1140959	SW	99								
5600172W		48.3		03	27.8	02	56	3/78	ag	bot	4	2	C.FAUSETT JR.										
	5600172-1		061	01	6.00	02	1000	250	FLOWFLO		300	---	681767. 1161503	GW	08		56	08	13	1.5	11	160	.50
	5600172-2		061	01	6.00	02	1000	250	FLOWFLO		300	---	681814. 1160388	GW	08								
	5600172-3		061	01	6.00	02	1000	250	FLOWFLO		300	---	682941. 1161497	GW	08								
	5600172-4		061	01	6.00	02	1000	250	FLOWFLO		300	---	683601. 1160368	GW	08								
	5600172-P1		061	01	---	---	---	---	---	---	10000	---	684076. 1160261	SW	99								
	5600172-P2		061	01	---	---	---	---	---	---	8000	---	681711. 1160214	SW	99								
5600173W		20.7		03	7.62	02	56	4/89	AG	GW	2	0	GATES & GATES										
	5600173-1		072	01	4.00	02	800	150	---		100		692749. 1146315	GW	08	Cap est.	56	08	13	1.5	11	45	.85
	5600173-2		072	01	4.00	02	800	150	---		100		692630. 1144956	GW	08	Cap est.							
5600174W		18.4		03	6.77	02	56	5/89	AG	BOT	1	1	ESTATE OF PIPPEN(WITE GROVE)										
	5600174-1		061	01	6.00	02	800	300	FLOWFLO		250	---	681194. 1166109	GW	08		56	08	13	1.5	11	40	.85
	5600174-P1		061	01	---	---	---	---	---	01	10000	---	680959. 1166863	SW	99								
5600175W		13.8		03	5.08	02	56	3/89	AG	GW	1	0	EDSALL GROVE #1										
	5600175-1		061	01	6.00	02	1200	268	FLOWFLO		800	---	686629. 1167300	GW	08		56	08	13	1.5	11	30	.85
5600176W		91.9		03	33.8	02		3/78	AGR	bot	8	0	SEXTON, CHARLES R SR										
	5600176-1		61	1	6	02	750	250	4		400		689057 1167810	GW	08		56	08	13	.8	11	200	.85
	5600176-2		61	1	5	02	650	250	4		250		689566 1168165	GW	08								
	5600176-3		61	1	4	02	650	250	4		100		689023 1169995	GW	08								
	5600176-4		61	1	5	02	700	260	4		250		688319 1170675	GW	08								
	5600176-5		61	1	5	02	700	260	4		250		688250 1170948	GW	08								

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LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
=============================================================================================================
PERMIT   AN.           ALL  MAX   NO.     DATE  USE SRCNO.   SW
NO.      ALL.          UNT  NO.   UTS CO  ISS.  TYPE  WLS.   PMPS   OWNER                      CO  PERMIT NO.  DEV NO.  CROP SOIL  RAIN   IRR   IRR
                                                                                                                     AQTYPE TYPE  ST    ACRES  EFF
=============================================================================================================
LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
=============================================================================================================
PERMIT   FACILITY     QUAD.  WELL     DPTH          PMP PUM PUMP
NO.      NUMBER       NO. STSDIA.     COD  TD   CD  INT TYP CAP.  MTR?  XPLNR  YPLNR  SRC  AQ  COMMENTS
=============================================================================================================
=============================================================================================================

          5600176-6   61   1         6 02  750  260     4   400      688025 1170779 GW  08
          5600176-7   61   1         5 02  700  260     4   250      687716 1170863 GW  08
          5600176-8   61   1         5 02  700  260     4   250      687400 1170400 GW  08
5600177W        19.2     03        8.6 02      31678 AGR gw   - 1 1  DONAHUE, COLONEL V
          5600177-1   61   1         5 02               4   200      680156 1162017 GW  08   EXPIRED/SOLD            08  13  0.8   11     47  .50
          5600177-P1  61   1           02               1  3000      678223 1161735 SW  99
5600178W        15.6     03        5.7 02      31678 AGR bot    1  1 CENTRAL GROVE CORP
          5600178-1   61   1         4 02 1000  350     4   100      694317 1153416 GW  08                           08  13  0.8   11     20  .50
          5600178-1S  61   1           02               3  2500      694859 1153459 SW  99  FPFDD-Portable
5600179W        29.7     03       10.9 02      31678 AGR gw     1 0  STONE, CHARLES JR
          5600179-1   61   1        10 02  900  375     4   600      685066 1167567 GW  08                           08  13  1.5   11     38  .50
5600180W        26.2     03        9.6 02      31678 AGR gw     3 0  PIPPIN, ESTATE OF O.F.
          5600180-1   61   1         8 02 1000  300     4   500      678150 1164365 GW  08                           08  13  0.8   11     57  .85
          5600180-2   61   1         4 02  850  300     4   100      678482 1164964 GW  08
          5600180-3   61   1         6 02  850  300     4   250      678806 1165527 GW  08
5600181W        25.3     03        9.3 02      31678 AGR bot    2  1 CASSENS GROVE SERVICE, INC
          5600181-1   61   1        10 02  140   80     1   800      683671 1164692 GW  08 May be only 1 well        08  13  0.8   11     55  .85
          5600181-2        1        10 02  140   80     1   800      683471 1164692 GW  08 LOC. IS GUESS
          5600181-1S  61   1           02               3 10000      684166 1164384 SW  99       FPFDD
5600182W        28.9     03        6.9 02      31678 AGR gw     1 0  RUSSAKIS, JIM
          5600182-1   61   1         4 02               4   160      686180 1155655 GW  08                           08  13  1.5   11     37  .50
5600183W        68.9     03       25.3 02      31678 AGR gw     8 0  MCALLISTER, DONALD H
          5600183-1   61   1         4 02  550  225     4   100      684235 1170750 GW  08                           08  13  1.5   11    150  .85
          5600183-2   61   1         6 02  750  250     4   400      683086 1170879 GW  08
          5600183-3   61   1         8 02  800  250     4   750      682885 1170746 GW  08
          5600183-4   61   1         4 02  550  225     4   100      682032 1171435 GW  08
          5600183-5   61   1         6 02  750  250     4   400      681902 1170635 GW  08
          5600183-6   61   1         5 02  700  250     4   250      682362 1169693 GW  08
          5600183-7   61   1         5 02  700  250     4   250      683719 1169680 GW  08
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	5600183-8		61	1	8	02	800	250		4	600	684151	1170484	GW	08							
5600184W		36.1		03	20.9	02		31678 AGR gw			6 0	KASOLL GROVES, INC.					08	13	1.5	11	35	.85
5600184W																	08	13	1.5	11	85	.50
	5600184-1		72	1	6	02	1000	400		4	360	692757	1148009	GW	08							
	5600184-2		72	1	4	02	1000	400		4	125	694187	1147939	GW	08							
	5600184-3		72	1	6	02	1000	400		4	200	694101	1147011	GW	08							
	5600184-4		72	4	6	02	1000	400		4	50	694271	1146755	GW	08							
	5600184-5		72	1	6	02	1000	400		4	220	694702	1146582	GW	08							
	5600184-6		72	1	4	02	1000	400		4	200	694186	1145719	GW	08							
5600185W		54.7		03	20.1	02		31678 AGR gw			6 0	D.L. SCOTTO COMPANY					08	13	1.5	11	70	.50
	5600185-1		72	1	4	02	742	340		4	175	689195	1146256	GW	08							
	5600185-2		72	1	4	02	814	330		4	184	688218	1146443	GW	08							
	5600185-3		72	1	5	02	772	327		4	124	688335	1145910	GW	08							
	5600185-4		72	1	5	02	891	316		4	245	688670	1145001	GW	08							
	5600185-5		72	1	5	02				4	200	688856	1144846	GW	08	Cap est.						
	5600185-6		72	1	5	02				4	200	688550	1144478	GW	08	"						
5600186W		9.2		03	3.3	02		31678 AGR bot			1 . 1	PLATTS GROVES, INC.					08	13	0.8	11	19	.85
	5600186-1		61	1	6	02	1000	350		4	250	686064	1153847	GW	08							
	5600186-1S		61	1		02			13	1	180	686054	1154795	SW	99	FPFDD						
5600187W		13.7		03	6.9	02		31678 AGR gw			1 0	HARDWICK GROVES					08	13	0.8	11	35	.50
	5600187-1		61	1	5	02				4	100	693025	1151487	GW	08							
	5600187-1P		61	1	5	02				1	400	692200	1150883	SW	99	PORTABLE						
5600188W		29.7		03	10.9	02		31678 AGR bot			2 1	PLATTS GROVES, INC.					08	13	1.5	11	38	.50
	5600188-1		72	1	4	02	800	300		4	100	689490	1148886	GW	08							
	5600188-2		72	1	4	02	700	250		4	80	690035	1148420	GW	08							
	5600188-1S		72	1		02			9	1	3000	689459	1148677	SW	99	C-1						
5600189W		31.2		03	11.51	02		31678 AGR bot			3 1	SEXTON, CHARLES R					08	13	1.5	11	40	.50
	5600189-1		72	1	4	02	650	250		4	100	688187	1148045	GW	08							
	5600189-2		72	1	6	02	650	250		4	300	688419	1147617	GW	08							
	5600189-3		72	1	4	02	650	250		4	100	688451	1147071	GW	08							
	5600189-1S		72	1		02				3	3000	689178	1147534	SW	99	FPDD						
5600190W		23.4		03	8.6	02		31678 AGR			1 0	GEANY, JOHN J.					08	13	1.5	11	30	.50
	5600190-1			1	4	02				4	207	686060	1171230	GW	08							
5600191W		36.8		03	13.5	02		31678 AGR bot			4 2	D.L. SCOTTO & COMPANY, INC.					08	13	1.5	11	80	.85
	5600191-1		61	1	8	02	987	286		4	478	691014	1154651	GW	08							
	5600191-2		61	1	4	02	823	114		4	209	691008	1155430	GW	08							
	5600191-3		61	1	5	02	903	296		4	352	690081	1154954	GW	08							
	5600191-4		61	4	4	02				4	200	690346	1154970	GW	08	Cap est.						
	5600191-1S		61	1		02				3	10000	689991	1155688	SW	99	Ft.Pierce Farms						
	5600191-2S		61	1		02				3	10000	691855	1155512	SW	99	Ft.Pierce Farms						
5600192W		18.4		03	6.7	02		31678 AGR gw			2 0	SUPANK, HAROLD					08	13	0.8	11	40	.85
	5600192-1		61	1	4	02				4	160	684058	1154842	GW	08							
	5600192-2		61	1	10	02	1000	380		4	1000	683019	1154362	GW	08							

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===========================================================================================================================
LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
========================================================================================================================================
                                                                                                          CROP SOIL  RAIN    IRR   IRR
PERMIT   AN.           ALL  MAX    NO.      DATE  USE SRCNO.   SW                           CO  PERMIT NO.  DEV NO.  AQTYPE TYPE  ST    ACRES  EFF
NO.      ALL.          UNT  NO.    UTS CO   ISS.  TYPE  WLS.   PMPS   OWNER
========================================================================================================================================

LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
==========================================================================================
PERMIT   FACILITY     QUAD.  WELL     DPTH             PMP PUM PUMP
NO.      NUMBER       NO. STSDIA.     COD  TD    CD   INT TYP CAP.   MTR?  XPLNR   YPLNR  SRC  AQ  COMMENTS
========================================================================================================================================
========================================================================================================================================

                                                                                                          08   13   1.5    11    96.1  .85
5600193W         44.2      03      16.2 02       31678 AGR bot     5    1 ZERN, ALLEN & JUDY
         5600193-1     61   1         5 02  750              4    160       684550 1171329 GW  08
         5600193-2     61   1         5 02  750              4    200       684948 1171185 GW  08
         5600193-3     61   1         5 02  750              4    200       684534 1169662 GW  08
         5600193-4     61   1         5 02  750              4    200       685574 1169709 GW  08
         5600193-5     61   2        12 02  950   400        4   1800       684977 1170828 GW  08
         5600193-1S    61   1           02                   3  12000       684508 1170774 SW  99       C-8
                                                                                                          08   13   0.8    11      57  .85
5600194W         26.2      03       9.6 02       31678 AGR gw      5 0    JOHNSON, S.J AND P.A.
         5600194-1     72   1         5 02                   4    150       689726 1147896 GW  08
         5600194-2     72   1         4 02                   4    100       690157 1147654 GW  08
         5600194-3     72   1         5 02                   4    200       690412 1147366 GW  08
         5600194-4     72   1         6 02                   4    150       689960 1146042 GW  08
         5600194-5     72   1         5 02                   4    200       690372 1146230 GW  08
                                                                                                          08   13   1.5    11      26  .50
5600195W         20.3      03       7.4 02       31678 AGR bot     3 3    STONE, JR - CHARLES
         5600195-1     72   1         4 02                   4     50       699999 1141807 GW  08 2 wells for domestic, Cap est.
         5600195-2     72   1         4 02                   4     50       700055 1142377 GW  08 use only-no permit    ***
         5600195-3     72   1         4 02                   4    100       700065 1142602 GW  08 Cap est.
         5600195-1S         1           02                   3   3500       700465 1142602 SW  99 Portable, LOC IS GUESS
         5600195-1C    72   4           02                                  698968 1142787 SW  99 Culvert
         5600195-2C    72   4           02                                  700072 1142803 SW  99 Culvert
                                                                                                          08   13   0.8    11      10  .50
5600196W          5.4      03           02       31678 AGR gw      1 0    FOREST ACRES, INC
         5600196W      61   1         4 02                   4    150       685767 1171532 GW  08
                                                                                                          08   13   0.8    11      75  .85
5600197W         34.5      03      12.7 02       31678 AGR gw      4 0    SEXTON, CHARLES R.
         5600197-1     72   1         6 02  650   225        4    400       688218 1143135 GW  08
         5600197-2     72   1         4 02  450   200        4     75       688656 1143620 GW  08
         5600197-3     72   1         6 02  650   225        4    400       689326 1143697 GW  08
         5600197-4     72   1         6 02  650   225        4    400       689219 1141620 GW  08
                                                                                                          08   13   1.5    11     100  .50
5600198W         30.3      03      17.4 02       31678 AGR gw      4 1    BOURN, W D - PACKING CO.
         5600198-1     72   1         6 02                   4    350       691044. 1140631 GW  08
         5600198-2     72   1         6 02                   4    350       692656. 1142659 GW  08
         5600198-3     72   1         4 02                   4     90       693106. 1142661 GW  08
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	5600198-4		72	1	4	02				4	75	694647. 1140648 GW	08 HOUSE ONLY						
	5600198-6		72	1		02				1	3000	692215. 1140637 SW	99 PORTABLE PUMP FROM C-25 CANAL						
5600199W		101.6	03		37.49	02			31678 AGR bot	6	1	PLATTS GROVES, INC		08	13	0.8	11	130	.50
5600199W														08	13	0.8	11	20	.75
5600199W														08	13	0.8	11	80	.85
	5600199-1		72	1	6	02	1000	350		4	300	698062 1147055 GW	08						
	5600199-2		72	1	4	02	750	300		4	150	697955 1147416 GW	08						
	5600199-3		72	1	6	02	1100	350		4	250	699374 1148743 GW	08						
	5600199-4		72	1	5	02	800	325		4	175	698171 1149200 GW	08						
	5600199-5		72	1	4	02	700	300		4	100	698057 1148882 GW	08						
	5600199-6		72	1	5	02	800	300		4	150	698219 1150264 GW	08						
	5600199-1S		72	1		02				1	800	698519 1150264 SW	99 Internal ditch, Location est.						
5600200W		36.8	03		13.54	02			31678 AGR BOT	7	1	LELLY, KENNETH		08	13	0.8	11	80	0.85
	5600200-1		61	1	6	02	800	150		4	260	688035. 1167781 GW	08 NEW PERMIT HOLDER AS OF JAN/'90						
	5600200-2		61	1	4	02	800	150		4	100	687584. 1167880 GW	08						
	5600200-3		61	1	4	02	800	150		4	100	688038. 1167175 GW	08						
	5600200-4		61	1	4	02	800	150		4	100	688219. 1166974 GW	08						
	5600200-5		61	1	4	02	800	150		4	100	689297. 1167282 GW	08						
	5600200-6		61	1	4	02	800	150		4	100	690198. 1167085 GW	08						
	5600200-P1		61	1		02			18"	1	584	687945. 1167781 SW	99 FROM INTERNAL DITCH						
5600201W		24.1	03		13.9	02			31678 AGR gw	2	0	MATTHEWS, E W		08	13	1.5	11	80	.50
	5600201-1		61	1	6	02	1000			4	175	683175 1162595 GW	08						
	5600201-2		61	1	8	02	1000			4	305	682774 1162180 GW	08						
5600202W		32.9	03		18.9	02			31678 AGR gw	2	2	CUSTOM AGRICULTURAL ERV		08	13	1.5	11	109	.50
	5600202-1		61	1	6	02				4	240	680522 1160086 GW	08 Back up to						
	5600202-2		61	1	4	02				4	240	680474 1158745 GW	08 Surface Water.						
	5600202-1S		61	1		02				3	10000	680959 1158862 SW	99 Permitted through						
	5600202-2S		61	1		02				3	10000	681443 1161410 SW	99 FtPierce Farms DD						
5600203W		14.8	03		5.4	02			31678 AGR gw	3	0	PIPPIN, ESTATE OF		08	13	1.5	11	19	.50
	5600203-1		61	1	12	02	1000	300		4	800	679807 1163703 GW	08						
	5600203-2		61	1	5	02	900	300		4	100	679783 1163397 GW	08						
	5600203-3		61	1	4	02	700	300		4	75	680285 1163503 GW	08						
5600204W		36.7	03		13.5	02			31678 AGR gw	1	0	DUENSING GROVES, INC		08	13	0.8	11	47	.50
	5600204-1		61	1	8	02	1150	300		4	450	694258 1157956 GW	08						
5600205W		31.2	03		11.5	02			31678 AGR bot	1	1	PLATT GROVES, INC.		08	13	0.8	11	40	.50
	5600205-1		61	1	6	02	900	350		4	250	690319 1153573 GW	08						
	5600205-1S		61	1	1				10	3	3000	689739 1153012 SW	99 C-1						
5600206W		20.7	03		7.62	02			31678 AGR bot	3	1	PLATT GROVES, INC.		08	13	0.8	11	41	.50
	5600206-1		72	3	6	02	1000	350		4	250	691221 1146589 GW	08 Wells are for						
	5600206-2		72	3	4	02	800	300		4	100	691659 1146568 GW	08 Freeze Protection						
	5600206-3		72	3	4	02	600	300		4	75	691036 1147772 GW	08						
	5600206-1S		72	1	1				11	1	150	691945 1147494 SW	99 C-5						
5600207W		8.2	03		3	02			31678 AGR bot	1	1	NORTHERN TRUST BANK OF FLORIDA		08	13	0.8	11	18.4	.85

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LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
=============================================================================================================================
PERMIT    AN.            ALL  MAX    NO.     DATE  USE SRCNO.   SW                                                      CROP SOIL  RAIN    IRR   IRR
NO.       ALL.           UNT  NO.    UTS CO  ISS.  TYPE  WLS.   PMPS  OWNER                   CO  PERMIT NO.  DEV NO.  AQTYPE TYPE  ST     ACRES  EFF
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LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
=========================================================================
PERMIT    FACILITY     QUAD.  WELL     DPTH          PMP PUM PUMP
NO.       NUMBER       NO. STSDIA.     COD  TD   CD  INT TYP CAP.  MTR?  XPLNR  YPLNR  SRC  AQ  COMMENTS
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          5600207-1    72   1        5 02  680   280       4    150       697055 1144876 GW  08
          5600207-1S   72   1          1              10   1  10000       697486 1144514 SW  99      C-3

5600208W          83    03     52.1 02      31678 AGR gw      .6 0  HAMILTON, LARRY                                          08   13   1.5    11      20  .85
5600208W                                                                                                                     08   13   1.5    11     180  .50
          5600208-1    61   1        6 02  790   140       4    150       680420 1170664 GW  08
          5600208-2    61   1        6 02  790   140       4    150       681230 1169389 GW  08
          5600208-3    61   1        6 02  900   240       4    300       680214 1170844 GW  08
          5600208-4    61   1        5 02  800   140       4    150       680253 1172997 GW  08
          5600208-5    61   1        5 02  800   140       4    150       681592 1172385 GW  08
          5600208-6    61   1        5 02  950   140       4    300       682342 1172656 GW  08

5600209W         7.8    03      2.8 02      31678 AGR bot      1   1 NELSETH, HAROLD & BETTY                                 08   13   0.8    11      17  .85
          5600209-1    72   1        5 02  940   280       4    150       696521 1145446 GW  08
          5600209-1S   72   1          1              10   1  10000       696021 1145446 SW  99 C-3 /also listed, LOC. IS GUESS

5600210W         301    03    110.8 02      31678 AGR bot     13   3 UNITED GROVES                                           08   13   1.5    11     385  .50
          5600210-1    61   1        4 02                  5    100       685285 1166760 GW  08 Cap estimated
          5600210-2    61   1        4 02                  4    100       686349 1166791 GW  08      ""
          5600210-3    61   1        8 02                  4    575       685972 1164855 GW  08      ""
          5600210-4    61   1        4 02                  4    100       686364 1163932 GW  08      ""
          5600210-5    61   1        4 02                  4    100       685090 1162636 GW  08      ""
          5600210-6    61   1        4 02                  4    100       686730 1162234 GW  08      ""
          5600210-7    61   1        4 02                  4    100       686768 1165977 GW  08      ""
          5600210-8    61   1        4 02                  3    100       685648 1161304 GW  08      ""
          5600210-9    61   1        4 02                  4    100       684585 1160562 GW  08      ""
          5600210-10   61   1        4 02                  4    100       686547 1159776 GW  08      ""
          5600210-11   61   1        4 02                  4    100       685766 1159127 GW  08      ""
          5600210-12   61   1        4 02                  3    100       684817 1166052 GW  08      ""
          5600210-13   61   1        4 02                  4    100       686465 1165141 GW  08      ""
          5600210-1S   61   1          02                  1   8000       684634 1165269 SW  99 Ft.Pierce Farms DD
          5600210-2S   61   1          02                  1   8000       684625 1162185 SW  99 Ft.Pierce Farms DD
          5600210-3S   61   1          02                  1  12000       684668 1161321 SW  99 Ft.Pierce Farms DD

5600211W        30.2    03     17.4 02      31678 AGR gw       3 1  CASSINS GROVE SERVIC                                     08   13   1.5    11     100  .50
          5600211-1    61   1        6 02                  3    410       690350 1151929 GW  08 for Spray Tanks
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	5600211-2		61	1	5 02				3	175	690032 1151576 GW	08	for Spray Tanks						
	5600211-3		61	1	4 02				3	160	691760 1151595 GW	08							
	5600211-1S		61	1	24 02				1	5000	691560 1151895 SW	99	24", 2 WAY PUMP MAIN CANAL #1						
5600212W		58.6		03	21.5 02			31678 AGR bot	6		1 GATES, PHILIP C								
5600212W		16.1		03	5.9 02														
	5600212-1		72	1	4 02	800	150		4	150	696555 1141758 GW	08		08	13	0.8	11	75	.50
	5600212-2		72	1	4 02	800	150		4	150	697301 1141916 GW	08		08	13	0.8	11	35	.85
	5600212-3		72	1	5 02	800	250		4	250	697666 1142464 GW	08							
	5600212-4		72	1	4 02	800	150		4	150	698604 1142042 GW	08							
	5600212-5		72	1	5 02	800	200		4	250	698477 1141382 GW	08							
	5600212-6		72	1	6 02	900	200		4	385	697682 1141356 GW	08							
	5600212-S		72	2	02				3	8000	698242 1142794 SW		C-1						
5600213W		26.7		03	7.9 02			31678 AGR gw	3 0		CASSINS GROVE SERVICE								
	5600213-1		72	1	5 02				4	170	689836 1144804 GW	08		08	13	0.8	11	40	.50
	5600213-2		72	1	4 02				4	100	689901 1145275 GW	08							
	5600213-3		72	1	5 02				4	170	690355 1144756 GW	08							
5600214W		55.1		03	20.3 02			31678 AGR bot	12		1 GATES, P.C. & C.B., JR.								
	5600214-1		61	1	5 02	800	150		4	150	696558 1151810 GW	08	Check permit boundarys	08	13	0.8	11	225	.85
	5600214-2		72	1	5 02	800	150		4	275	697277 1151037 GW	08	on overlays-they						
	5600214-3		72	1	4 02	800	150		4	200	695400 1150726 GW	08	added 60 acres-sec 25						
	5600214-4		72	1	4 02	800	150		4	181	696512 1150662 GW	08							
	5600214-5		72	1	5 02	800	150		4	295	697203 1150631 GW	08							
	5600214-6		72	1	4 02	800	150		4	160	696069 1150366 GW	08							
	5600214-7		72	1	5 02	800	150		4	250	695324 1150108 GW	08							
	5600214-8		72	1	4 02	800	150		4	181	695673 1150094 GW	08							
	5600214-9		72	1	4 02	800	150		4	160	696597 1150113 GW	08							
	5600214-10		72	1	5 02	800	150		4	295	697167 1150056 GW	08							
	5600214-11		72	1	5 02	800	150		4	250	696373 1148830 GW	08							
	5600214-12		72	1	5 02	800	150		4	250	697023 1148807 GW	08							
	5600214-1S			2	02				3	8000	697023 1148807 SW	99	C-3, LOC. IS GUESS						
5600215W		60.8		03	22.3 02			31678 AGR gw	4 0		CASSENS GROVE SERVICE, INC.								
	5600215-1		61	1	8 02	1200	200		4	610	679559 1160068 GW	08		08	13	1.5	11	77.8	.50
	5600215-2		61	1	8 02	1200	200		4	610	678330 1160105 GW	08							
	5600215-3		61	1	6 02	1200	200		4	250	679300 1161200 GW	08	for Spray Tanks, LOC IS GUESS						
	5600215-4		61	1	4 02	1200	200		4	100	680546 1161781 GW	08							
5600216W		20.2		03	7.45 02			31678 AGR gw	3 0		RUSSAKIS, JIM G								
	5600216-1		61	1	4 02	700	340		4	75	690050 1156438 GW	08	J.L. PLOTTED	08	13	0.8	11	44	.85
	5600216-2		61	1	4 02	700	340		4	75	689791 1157138 GW	08	acreage sold						
	5600216-3		61	1	4 02	700	340		4	75	690200 1157188 GW	08	WATER SURVEY 850 MG/L						
5600217W		7.6		03	2.7 02			31678 AGR gw	2 0		NELSETH, HAROLD & BETTY								
	5600217-1		72	1	4 02	960	300		4	75	693256 1145005 GW	08		08	13	1.5	11	16	.85
	5600217-2		72	1	6 02	960	250		4	150	692859 1144974 GW	08							
5600218W		36.4		03	11.6 02			31678 AGR gw	2 0		HARDWICK GROVES								
	5600218-1		61	1	6 02				4	150	695832 1158129 GW	08	Well broken open	08	13	1.5	11	67	.50
	5600218-2		61	1	6 02				4	200	696800 1158071 GW	08							

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LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
==================================================================================================================================================
PERMIT   AN.                ALL  MAX    NO.    DATE  USE SRCNO.    SW                                                  CROP SOIL  RAIN    IRR   IRR
NO.      ALL.               UNT  NO.    UTS CO ISS.  TYPE   WLS.   PMPS   OWNER            CO  PERMIT NO.  DEV NO.  AGTYPE TYPE   ST    ACRES  EFF
==================================================================================================================================================

LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
==================================================================================
PERMIT   FACILITY      QUAD.  WELL      DPTH           PMP PUM PUMP
NO.      NUMBER        NO. STSDIA.      COD  TD    CD  INT TYP CAP.  MTR?  XPLNR  YPLNR  SRC  AQ  COMMENTS
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5600219W          10.3     03       3.3 02      31678 AGR gw        2 0   HARDWICK GROVES                                08   13   1.5    11      19  .50
        5600219-1     61    1         6 02                   4     275       695126 1152538 GW  08
        5600219-2     61    1         3 02                   4     100       696027 1152764 GW  08

5600220W          10.9     03       3.4 02      31678 AGR gw        1 0   CASSINS GROVE SERVIC                           08   13   1.5    11      20  .50
        5600220-1     72    1         8 02                   4     610       690871 1146109 GW  08

5600221W         729.5     03     268.5 02      31678 AGR bot      21  10 TRIPLE M & INDIANOLA GROVES,IN                 08   13   1.5    11     966  .50
        5600221-1     61    1         5 02                   4     158       683084 1158639 GW  08
        5600221-2     61    1         4 02                   4     122       681814 1157579 GW  08
        5600221-3     61    1         4 02                   4     100       683019 1157574 GW  08
        5600221-4     61    1         8 02                   4     810       683301 1157045 GW  08
        5600221-5     61    3         4 02                   4     100       685832 1158336 GW  08 Cap estimated
        5600221-6     61    3         4 02                   4     100       685000 1156832 GW  08         "
        5600221-7     61    3         5 02                   4     159       684385 1155674 GW  08         "
        5600221-8     61    1         4 02                   4     150       684500 1154578 GW  08
        5600221-9     61    1         6 02                   4     352       685096 1153809 GW  08
        5600221-10    61    1         5 02                   4     250       686114 1153181 GW  08
        5600221-11    61    1         6 02                   4     410       687424 1152807 GW  08
        5600221-12    61    1         4 02                   4     150       687944 1151836 GW  08
        5600221-13    61    1         4 02                   4     200       687154 1151629 GW  08
        5600221-14          1         6 02                   4     350       687154 1151629 GW  08 LOC. WELL 14 IS GUESS
        5600221-15    72    1         4 02                   4     150       686811 1150762 GW  08
        5600221-16    72    1         6 02                   4     352       685767 1150750 GW  08
        5600221-17    72    1         4 02                   4     150       687781 1149841 GW  08
        5600221-18    72    1         5 02                   4     250       688331 1149841 GW  08
        5600221-19    72    1         4 02                   4     150       687557 1148494 GW  08
        5600221-20    61    3         6 02                   4     350       686831 1152323 GW  08 Cap est.
        5600221-21    72    1         5 02                   4     150       682862 1148746 GW  08
        5600221-1S    61    1           02                   3   10000       683080 1158896 SW  99   C-1,24" PUMP
        5600221-2S    61    1           02                   3   10000       684454 1156964 SW  99   C-1, 24"PUMP
        5600221-3S    72    1           02                   3   10000       686703 1148368 SW  99  C-18, 24"PUMP
        5600221-4S    61    1           02                   3   10000       689252 1152510 SW  99 C-1, 24"PUMP, LOC.IS GUESS HERE DOWN.
        5600221-5S          1           02                   3    1800       689252 1152510 SW  99 Portable pumps, 10"PORTABLE PUMP
        5600221-6S          1           02                   3    1800       689252 1152510 SW  99 withdrawing from, 10" PORTABLE PUMPS
        5600221-7S          1           02                   3    3000       689252 1152510 SW  99 on-site lake and, 12" PORTABLE
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        5600221-8S        1        02                      3   3000   689252 1152510 SW  99 Canals 1,7,16,18, 12"PORTABLE
        5600221-9S        1        02                      3   3000   689252 1152510 SW  99 12" PORTABLE PUMP
        5600221-10S       1        02                      3   3000   689252 1152510 SW  99 12" PORTABLE PUMP
5600222W          6.9    03    2.5 02      31678 AGR gw        1 0   PLATTS GROVE, INC
        5600222-1    72   1      6 02  800   350       4   300     695511 1149238 GW  08
5600223W          9.2    03    3.3 02      31678 AGR gw        1 0   HELSETH, HAROLD & BETTY                               08  13  0.8  11    15 .85
        5600223-1    72   1      5 02  980   300       4   250     695716 1147448 GW  08
5600224W         16.1    03    5.9 02      31678 AGR gw        1 0   GATES PHILIP C - JR & SR                              08  13  0.8  11    20 .85
        5600224-1    72   1      6 02  900   200       4   360     695561 1143268 GW  08
5600225W          43     03   12.9 02      31678 AGR bot       1 0   PLATTS GROVES, INC.                                   08  13  0.8  11    35 .85
        5600225-1    72   1      6 02 1100   350       4   300     700983 1143420 GW  08
5600226W         21.8    03    6.9 02      31678 AGR gw        2 0   RICCI, NICK                                           08  13  0.8  11    55 .50
        5600226-1    61   1      6 02  900             4   352     687677 1160939 GW  08
        5600226-2    61   1      6 02  900             4   200     688259 1160953 GW  08                                 08  13  1.5  11    40 .50
5600227W         16.5    03      6 02      31678 AGR bot       2 2   PLATTS GROVES, INC.
        5600227-1    72   1      4 02  600   300       4   125     697134 1145708 GW  08 Used when canal                 08  13  0.8  11    36 .85
        5600227-2    72   1      4 02  700   325       4   125     696850 1146047 GW  08      is low
        5600227-1S        1        02                  1   180     696450 1146047 SW  99 Internal Canal, LOC. IS GUESS
        5600227-1C        1        02                              696350 1146047 SW  99 C-3,NEW ACREAGE SEE OVERLAY, LOC.:GUESS
5600228W         13.8    03      5 02      31678 AGR bot       2   1 PLATTS GROVES, INC.
        5600228-1    72   1      4 02  800   350       4   140     697167 1143123 GW  08                                 08  13  0.8  11    30 .85
        5600228-2    72   1      4 02  700   300       4   100     696722 1143581 GW  08
        5600228-1S   72   1        02                  1   100     697194 1143320 SW  99 C-1,C-3(drainage?)
5600230W         10.9    03   3.48 02      31678 AGR gw        2 0   VINSON, AUGUSTA
        5600230-1    61   1      4 02                  4   205     680075 1165506 GW  08  Combined well                  08  13  1.5  11    20 .50
        5600230-2    61   1      5 02                  4   205     680050 1164374 GW  08    capacity
5600231W         43.6    03   12.8 02      31678 AGR gw        1 0   HAMILTON, DAVID A
        5600231-1    61   1      6 02 1000             4   300     677953 1162915 GW  08
5600232W         48.8    03   14.4 02      31678 AGR gw        3 0   JONES, JR E N                                         08  13  0.8  11    65 .50
        5600232-1    61   1      5 02  900   225       4   200     693256 1155560 GW  08
        5600232-2    61   1      5 02  900   225       4   200     693338 1154781 GW  08                                 08  13  0.8  11    73 .50
        5600232-3    61   1      4 02  900   225       4   100     692485 1153843 GW  08
5600233W         41.4    03   15.2 02      31678 AGR bot       4   2 KUTA, STEPHANIE A.
        5600233-2    61   1      8 02  900   150       4   550     690915 1153941 GW  08
        5600233-3    61   1      4 02  700   150       4   100     691079 1152345 GW  08                                 08  13  1.5  11    90 .85
        5600233-4    61   1      4 02  700   150       4   100     691937 1153013 GW  08
        5600233-5    61   1      4 02  700   150       4   100     693073 1152677 GW  08
        5600233-1S   61   1        02                  3 10000     692187 1153507 SW  99
        5600233-2S   61   1        02                  3  5000     692401 1152369 SW  99
5600235W         10.2    03    5.9 02      91478 AGR gw        4 0   SUN SHOWER GROVES
                                                                                                                       08  13  1.5  11    34 .50
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LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
==================================================================================================================================================================
                                                                                                                   CROP SOIL  RAIN     IRR   IRR
PERMIT   AN.            ALL  MAX   NO.     DATE  USE SRCNO.   SW                                                  
NO.      ALL.           UNT  NO.   UTS CO  ISS.  TYPE  WLS.   PMPS  OWNER              CO  PERMIT NO.  DEV NO.  AQTYPE TYPE   ST      ACRES  EFF
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LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
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PERMIT   FACILITY     QUAD.  WELL     DPTH           PMP PUM PUMP
NO.      NUMBER       NO. STSDIA.     COD  TD   CD  INT TYP CAP.  MTR7  XPLNR  YPLNR  SRC  AQ  COMMENTS
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         5600235-1    72   1       6 02              4    350      698527 1133980 GW  08
         5600235-2    72   1       3 02              4     60      698346 1134549 GW  08
         5600235-3    72   1       4 02              4    100      698207 1134869 GW  08
         5600235-4    72   1       4 02              4     75      697988 1135116 GW  08

5600237W          21     03    16.4 02      91478 AGR gw      1 0   ORANGE AVE LAND TRUS                                     08   13   0.8    11       34  .50
5600237W                                                                                                                   08   13   0.8    11       40  .50
         5600237-1    72   1       6 02  950   290     4    500      669949 1133684 GW  08      EXPIRED

5600238W        26.2     03     9.6 02      91478 AGR bot     2   1 DUNN, HOWARD W                                         08   13   1.5    11     57.0  .85
         5600238-1    72   1       4 02  343   100     4    100      686042 1117047 GW  08
         5600238-2    72   1       4 02  709   140     4    140      685454 1116750 GW  08
         5600238-1S   72   1         02                1    500      685653 1116960 SW  99   on site pond

5600239W          17     03     6.2 02      91478 AGR gw      1 0   DUNN, HOWARD W                                         08   13   0.8    11     37.0  .85
         5600239-1    72   1       8 02  943   320     4    410      692338 1128343 GW  08

5600240W        22.3     03    12.9 02      91478 AGR BOT     1 0   A + B GROVE                                            08   13   1.5    11     74.0  .85
         5600240-1    71   1      10 02  970   320     4    960      647915 1131298 GW  08      EXPIRED
         5600240-P1   71   1         02                   10000      648575 1129318 SW  99 BOX PUMP FROM NSLRWMD CANAL

5600242W        43.2     03    15.9 02      91478 AGR bot     3   1 DUNN, EARNEST R                                        08   13   0.8    11     94.0  .85
         5600242-1    72   1       4 02  756   108     4    105      694014 1128748 GW  08
         5600242-2    72   1       4 02  789   134     4    200      694241 1127790 GW  08
         5600242-3    72   1       6 02  838   133     4    290      692855 1127881 GW  08
         5600242-1S   72   1          1          17.   1    250      693978 1127002 SW  99   on site pond

5600243W        49.8     03    18.3 02      91478 AGR gw      5 0   CHILDS, RL-SR & WA                                     08   13   0.8    11     20.0  .85
5600243W                                                                                                                   08   13   0.8    11     52.0  .50
         5600243-1    73   1       4 02  800   350     4    148      706499 1121558 GW  08
         5600243-2    73   1       4 02  800   350     4    200      707733 1120902 GW  08
         5600243-3    73   1       4 02  800   350     4    200      707216 1120206 GW  08
         5600243-4    73   1       6 02  800   350     4    400      705332 1120748 GW  08
         5600243-5    73   1       4 02  800   350     4    148      704578 1120670 GW  08

5600244W        12.8     03    4.22 02      91478 AGR gw      1 0   JONES, EDDIE M                                         08   20   0.8    11     15.0  .50
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	5600244-1	72	1	6 02	979	280		4	352	684950 1133837 GW 08								
5600245W		54.7	03	20.2 02			91478 AGR bot		6	1 FEE GROVES								
5600245W													08	13	0.8	11	70.0	.50
	5600245-1	71	1	5 02	600	300		4	100	651804 1131899 GW 08			08	13	0.8	11	70.0	.85
	5600245-2	71	1	5 02	600	600		4	100	649914 1131504 GW 08								
	5600245-3	71	1	5 02	600	340		4	100	651200 1131207 GW 08								
	5600245-4	71	1	5 02	600	560		4	100	650796 1130744 GW 08								
	5600245-5	71	1	5 02	600	300		4	100	651150 1130291 GW 08								
	5600245-6	71	1	5 02	600	300		4	100	651678 1129594 GW 08								
	5600245-1S	71	1	02				1	9000	651128 1129580 SW 99		C-64						
5600246W		59.4	03	21.9 02			91478 AGR bot		1	1 DUNN, EARNEST R								
	5600246-1	71	1	6 02	950	260		4	250	653989 1126107 GW 08	Cap est.		08	13	0.8	11	76.0	.50
	5600246-1S	71	1	1			10.		10000	653999 1126762 SW 99		C-65						
5600247W		6.9	03	2.5 02			91478 AGR bot		1	1 FEE GROVES								
	5600247-1	71	1	4 02	600			4	100	654133 1130432 GW 08			08	13	1.5	11	15.0	.85
	5600247-1S	71	1	02				1	3300	654947 1129511 SW 99		C-64						
5600248W		26.5	03	9.7 02			91478 AGR gw		3 0	GOTTARDO, VIRGIL								
	5600248-1	72	1	4 02	610	132		4	100	681998 1113128 GW 08	may abandon wells		08	13	1.5	11	34.0	.50
	5600248-2	72	5	4 02	620	137		4	100	681828 1112259 GW 08								
	5600248-3	72	1	6 02	869	330		4	275	682073 1111659 GW 08								
5600250W		53.4	03	15.8 02			101978 AGR gw		2 0	FARINA, CHARLES R		56						
	5600250-1	71	1	6 02	750			4	300	650174 1113810 GW 08	EXPIRED		08	13	0.8	11	80	.50
	5600250-2	71	1	6 02	750			4	300	649299 1113772 GW 08								
5600252W		2567.8	03	36.1 02			111678 AGR gw		9 0	VAVRUS, CHARLES		56						
	5600252-1	70	4	6 02	800			4	350	597273 1131562 GW 08	EXPIRED		08	20	0.8	11	3000	.50
	5600252-2	70	4	6 02	800			4	150	595854 1129020 GW 08	WELLS NOT USED							
	5600252-3	70	4	6 02	800			4	40	598528 1127570 GW 08								
	5600252-4	70	4	6 02	800			4	40	603964 1116208 GW 08								
	5600252-5	70	4	6 02	800			4	75	597960 1110261 GW 08								
	5600252-6	81	4	6 02	800			4	40	607733 1104458 GW 08								
	5600252-7	81	4	6 02	800			4	40	611876 1104950 GW 08								
	5600252-8	81	4	6 02	800			4	60	613653 1099335 GW 08								
	5600252-9	81	4	6 02	800			4	40	614230 1096734 GW 08								
	5600252-10C70		3	02						597348 1114159 SW	CULVERT LOCATIONS							
	5600252-11C81		3	02						620298 1101196 SW	CULVERT LOCATIONS							
	5600252-12C81		3	02						614884 1098943 SW	CULVERT LOCATIONS							
	5600252-13C81		3	02						610298 1099142 SW	CULVERT LOCATIONS							
	5600252-14C81		3	02						608511 1097571 SW	CULVERT LOCATIONS							
	5600252-15C81		3	02						612761 1095041 SW	CULVERT LOCATIONS							
	5600252-16C81		3	02						614498 1092614 SW	CULVERT LOCATIONS							
	5600252-17C81		3	02						610107 1082332 SW	CULVERT LOCATIONS							
5600253W		276	03	101.6 02			111678 AGRboth		10	1 CAMPBELL, CHARLES H		56						
	5600253-1	71	1	8 02	900	240		4	100	652401 1128118 GW 08	Capacity is estimated		08	13	1.5	11	600	.85
	5600253-2	71	1	8 02	900	240		4	100	651173 1128195 GW 08								
	5600253-3	71	1	8 02	900	240		4	100	649960 1128123 GW 08								
	5600253-4	71	1	6 02	900	240		4	100	648535 1128172 GW 08								

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LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
=====================================================================================================================
PERMIT   AN.              ALL  MAX    NO.        DATE  USE SRCNO.    SW                                                                      CROP SOIL  RAIN    IRR    IRR
NO.      ALL.             UNT  NO.    UTS CO  ISS.  TYPE   WLS.   PMPS   OWNER                                   CO  PERMIT NO.  DEV NO.  AQTYPE TYPE   ST     ACRES  EFF
=====================================================================================================================

LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
=====================================================================================================================
PERMIT   FACILITY     QUAD.  WELL     DPTH           PMP PUM PUMP
NO.      NUMBER       NO. STSDIA.     COD   TD   CD  INT TYP CAP.  MTR?  XPLNR  YPLNR  SRC  AQ  COMMENTS
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         5600253-5  71    1        8 02  900   240       4   100       647378 1128204 GW  08
         5600253-6  71    1        8 02  900   240       4   100       647511 1125350 GW  08
         5600253-7  71    1        6 02  900   240       4   100       648547 1125377 GW  08
         5600253-8  71    1        8 02  900   240       4   100       649880 1125337 GW  08
         5600253-9  71    1        8 02  900   240       4   100       651233 1125385 GW  08
         5600253-10 71    1        8 02  900   240       4   100       652305 1125392 GW  08
         5600253-1S       1          1              14   3 12000       652305 1125392 SW  99 C-24, Location is guess.

5600255W       16.6       03     6.1 02        121478 AGRboth    1   1 HESTER, R.J. & LINDBLOOM, G.           56                  08   13   1.5    11      36  .85
         5600255-1  71    1        6 02                      4   410       656702 1128018 GW  08
         5600255-1S 71    1          1              13'  1 12000       657717 1127030 SW  99       C-65

5600257W       18.4       03     6.8 02         11879 AGR gw       2 0   HESTER, R.J. & LINDBLOOM, G.           56                  08   13   1.5    11      40  .85
         5600257-1  72    1        5 02  814   316       4   249       664056 1138007 GW  08
         5600257-2  72    1        4 02  800   300       4    75       663581 1138746 GW  08

5600259W       33.1       03    12.2 02        121478 AGRboth    3   1 OLDCHESTER CORPORATION                 56                  08   13   1.5    11      72  .85
         5600259-1  71    1        4 02  850   315       4    75       655670 1129356 GW  08
         5600259-2  71    1        4 02  880   294       4    75       655565 1128224 GW  08
         5600259-3  71    1        6 02  960   336       4   180       655934 1128261 GW  08
         5600259-1S 71    1          1              16   1 10000       655277 1129307 SW  99       C-64

5600260W         35       03    12.9 02         11879 AGR gw       3 0   ROSENTHAL, JANIC                       56                  08   13   0.8    11      76  .85
         5600260-1  71    1        6 02  800   340       4   100       651289 1118407 GW  08 Capacity estimated
         5600260-2  71    1        5 02  700   340       4   100       651323 1117805 GW  08
         5600260-3  71    1        6 02  800   340       4   100       650114 1117801 GW  08

5600262W       19.5       03     7.2 02         31579 AGRboth    2   1 BRITT, M.V. & M. N.                    56                  08   13   1.5    11      37  .75
         5600262-1  83    1        4 02  800                 4   128       667053 1100486 GW  08
         5600262-2  83    1        6 02  800                 4   225       667586 1101360 GW  08
         5600262-1S 83    2         02                       2 10000       668082 1100885 SW  99       C-85

5600264W       27.8       03    10.2 02         11879 AGRboth    8   1 ROSENTHAL, J.N. & TURVIN, L.A.         56                  08   13   1.5    11      36  .50
         5600264-1  71    1        6 02  700   360       4   300       658070 1126954 GW  08           56                  08   13   1.5    11     249  .85
         5600264-2  71    1        5 02  650   360       4   250       658725 1126928 GW  08
         5600264-3  71    1        5 02  650   360       4   250       658441 1126538 GW  08
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	5600264-4	71	1	5	02	650	360			4	250	659809	1126799	GW	08								
	5600264-5	71	1	5	02	650	360			4	250	660658	1126271	GW	08								
	5600264-6	71	1	5	02	650	360			4	250	658444	1125390	GW	08								
	5600264-7	71	1	4	02	500	320			4	150	659098	1125395	GW	08								
	5600264-8	71	1	8	02	1000	360			4	300	658644	1124374	GW	08								
	5600264-1S	71	1		02					3	8000	658903	1129285	SW	99	C-64							
5600265W	46.9		03	17.3	02		11879	AGRboth			1	1 EDSALL-DURRETT GROVES					56	08	13	1.5	11	60	.50
	5600265-1	71	1	6	02	900	300			4	270	661540	1132288	GW	08								
	5600265-1S	72	1		1				15	1	10000	662680	1132710	SW	99	C-59							
5600266W	17.9		03	6.6	02		31579	AGRboth			1	2 PLATTS, NORMAN & BARBARA					56	08	13	0.8	11	39	.85
	5600266-1	71	1	5	02	800	300			4	550	660707	1113331	GW	08								
	5600266-1C	71	4		1				18			660694	1113588	SW	99	Flume Rd. Canal							
	5600266-2C	71	4		1				18			660688	1112881	SW	99	Internal Canal							
5600267W	40		03	5.6	02		110879	AGRBOTH			2 2	MAYBURY MANAGEMENT					56	08	13	1.5	11	33	.50
	5600267-1	71	3	4	02	1000				4	260	661778	1131795	GW	08	THIS IS SAME WELL AS P#322-1							
	5600267-2	71	1	6	02	1000				4	261	661778	1131295	GW	08	FOR NOW WILL USE STANDBY STATUS							
	5600267-1S	71	3		02						7500	662070	1130877	SW	99	THIS IS SAME WELL AS P#322-1S							
	5600267-2S	71	3		02						7500	662109	1131350	SW	99	THIS IS SAME WELL AS P#322-2S							
5600269W	18.4		03	6.7	02		21579	AGR gw			1 0	A-ONE CITRUS, INC.					56	08	13	1.5	11	40	.85
	5600269-1	71	1	5	02	1000	360			4	150	655933	1138391	GW	08	Cap. estimated							
5600270W	65.3		03	24	02		21579	AGRboth			1	2 FLA CITRUS PROPERTIES					56	08	13	0.8	11	142	.85
	5600270-1	72	1	5	02	1000				4	315	662993	1117451	GW	08								
	5600270-1S	72	1		02					.3	12700	663019	1117214	SW	99	Header Canal							
	5600270-1C		4		1				14					SW	99								
5600271W	16.6		03	6.1	02		21579	AGRboth			1	1 MORRIS, JR., KENNETH A					56	08	13	1.5	11	36	.85
	5600271-1	72	1	6	02	800	160			4	350	663596	1120046	GW	08	FOR FREEZE PROT.							
	5600271-1S	72	2		02					3	4000	663047	1119441	SW	99	Header Canal							
5600272W	129.2		03	47.6	02		21579	AGR gw			1 0	EVANS PROPERTIES, INC.					56	08	13	1.5	11	281	.85
	5600272-1	71	1	8	02	881	287			4	575	660354	1120135	GW	08	Cap. estimated							
5600276W	61.4		03	22.6	02		31579	AGR			2 2	MONTOYA, ALBERTO & JOEAN					56	08	13	0.8	11	134	.85
	5600276-1	82	1	8	1	1000	360			4	500	647419.	1099046	GW	08								
	5600276-2	82	1	8	1	1000	360			1	500	649397.	1100770	GW	08	PUMPED							
	5600276-3S	82	1		1				10	2	12000	652283.	1100377	SW	99	Canal 76							
	5600276-4S	82	1		1				10	2	12000	647415.	1100157	SW	99	C-24 Canal							
5600277W	128.3		03	47.2	02		31579	AGRboth			7	1 ROSENTHAL, J.N. & NEWMAN, L.N.					56	08	13	0.8	11	279	.85
	5600277-1	71	1	6	1	850	360			1	300	647062.	1122775	GW	08								
	5600277-2	71	1	6	1	850	360			4	275	647333.	1122675	GW	08								
	5600277-3	71	1	6	1	850	360			4	275	648145.	1122577	GW	08								
	5600277-4	71	1	6	1	850	360			4	300	648595.	1122579	GW	08								
	5600277-5	71	1	6	1	850	360			4	300	649226.	1122581	GW	08								
	5600277-6	71	1	8	1	1000	400			4	600	649947.	1122584	GW	08								
	5600277-7	71	1	4	1	550	200			4	120	651207.	1122891	GW	08								
	5600277-1S	71	1							3	8000	651385.	1123498	SW	99	C-24							

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LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
=====================================================================================================================================
PERMIT   AN.             ALL  MAX    NO.    DATE  USE SRCNO.    SW                                                     CROP SOIL  RAIN    IRR    IRR
NO.      ALL.            UNT  NO.    UTS CO ISS.  TYPE   WLS.   PMPS   OWNER                 CO  PERMIT NO.  DEV NO.  AGTYPE TYPE  ST      ACRES  EFF
=====================================================================================================================================

LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
=====================================================================================
PERMIT   FACILITY       QUAD.  WELL     DPTH          PMP PUM PUMP
NO.      NUMBER         NO. STSDIA.     COD  TD   CD  INT TYP CAP.  MTR?  XPLNR   YPLNR   SRC  AQ  COMMENTS
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5600278W     207.6      03     76.4 02        31579 AGRboth    6   1 MCARTHUR FARMS, INC          56                  08   13   1.5    11     266  .50
         5600278-1  83   1        5  1  600    315      4   210     664259. 1104261 GW  08
         5600278-2  83   1        5  1  600    318      4   210     664626. 1102748 GW  08
         5600278-3  83   1        5  1  600    287      4   210     664993. 1101235 GW  08
         5600278-4  83   1        5  1  600    323      4   210     663538. 1104258 GW  08
         5600278-5  83   1        5  1  600    275      4   210     663544. 1102946 GW  08
         5600278-6  83   1        5  1  600    308      4   210     663370. 1101228 GW  08
         5600278-1S 83   1           1              11    1 25000   662912. 1102943 SW  99   Header Canal

5600279W     164.2      03     60.4 02        71979 AGRboth    3   2 SCOTTO, D.L. & CO., INC.     56                  08   13   1.5    11     210  .50
         5600279-1  83   1        4  1                  4   270     667236. 1103971 GW  08
         5600279-2  83   1        4  1                  4   257     665888. 1102753 GW  08
         5600279-3  83   1        4  1                  4   213     667247. 1102545 GW  08
         5600279-1S 83   1           1                  3 10000     668324. 1102359 SW  99       C-85
         5600279-2S 83   1           1                  3 10000     668317. 1104076 SW  99       C-85

5600280W      26.8      03      7.9 02        41979 AGR gw     2 0   DL SCOTTO + COMPANY          56                  08   13   0.8    11      40  .50
         5600280-1  84   1        6 02                  3   200      715106 1096745 GW  08
         5600280-2  84   1        5 02                  3   175      715669 1096687 GW  08

5600281W     111        03     40.9 02        41979 AGRboth    6   2 EVANS PROPERTIES, INC.       56                  08   13   1.5    11     142  .50
         5600281-1  83   1        4 02  700    225      4   100      665400 1092660 GW  08
         5600281-2  83   1        4 02  700    225      4   100      665406 1093141 GW  08
         5600281-3  83   1        4 02  700    225      4   100      665423 1093792 GW  08
         5600281-4  83   1        4 02  700    225      4   100      665431 1094401 GW  08
         5600281-5  83   1        4 02  700    225      4   100      664817 1093840 GW  08
         5600281-6  83   1        4 02  700    225      4   100      663811 1093726 GW  08
         5600281-7       4          02                      100      663811 1093726 GW  08 Location is guess.
         5600281-1S 83   1          02                  3  8000      664675 1094770 SW  99       C-24
         5600281-2S 83   1          02                  3 10000      662995 1092710 SW  99       C-24

5600282W      10        03      3 02          41979 AGR gw     1 0   GREENE, I                    56                  08   13   0.8    11      15  .50
         5600282-1  84   1        4 02                  4   100      717661 1097963 GW  08

5600283W       6        03      3 02          41979 AGR gw     1 0   BACKIEL GROVES #1            56                  08   13   0.8    11       9  .50
         5600283-1  84   1        4 02                  3   150      716875 1105760 GW  08
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5600284W	8		03	3	02		41979	AGR	gw	1	0	FT PIERCE GROWERS AS			56	08	13	0.8	11	12	.5
	5600284-1	84	1	4	02	900			4	75		719052 1097300 GW	08								
5600285W	17.3		03	5.1	02		41979	AGR	gw	1	0	ROBINSON, H S			56	08	13	0.8	11	26	.50
	5600285-1	84	1	4	02	850	120		4	150		713601 1100919 GW	08								
5600286W	20.7		03		02		41979	AGR	gw	3	0	ROBINSON, R D			56	8,1	13	0.8	11	45	.85
	5600286-1	84	1	4	02	850	120		4	100		716997 1100797 GW	08								
	5600286-2	84	1	4	02				4	100		716831 1100310 GW	08								
	5600286-3		1	3	02	60			1	151.6		716831 1100310 GW	02	Location is guess							
5600287W	10.7		03	5.38	02		41979	AGR	gw	2	0	MOSUCHINSKY, J			56	8,1	13	0.8	11	16	.50
	5600287-1	84	1	4	02	875			4	100		706817 1104546 GW	08								
	5600287-2	84	1	3	02	45			3	70		706838 1103808 GW	02								
5600288W	4.37		03	1.61	02		41979	AGR	gw	2	0	ROBINSON, R D			56	8,1	13	0.8	11	10	.85
	5600288-1	84	1	4	02				4	100		716861 1097963 GW	08								
	5600288-2	84	1	3	02	60			1	151.6		716821 1098219 GW	02								
5600289W	12.1		03	3.56	02		41979	AGR	gw	1	0-	MARTIN, D E			56	08	13	0.8	11	18	.85
	5600289-1	84	1	4	02				4	232		715361 1095339 GW	08								
5600295W	18.8		03	6.92	02		91379	AGR	gw	3	0	BAKER, J N			56	08	13	0.8	11	35	.50
	5600295-1	84	1	4	02	800			4	150		709968 1105745 GW	08								
	5600295-2	73	1	4	02	800			4	50		710660 1106073 GW	08								
	5600295-3	73	1	4	02	800			4	150		710462 1106519 GW	08								
5600296W	23.4		03	8.6	02		91379	AGRboth		1	1	HOEFFNER, JOHN A.			56	08	15	0.8	11	23	.50
	5600296-1	72	1	4	02	800			4	125		701391 1135924 GW	08								
	5600296-1S	72	1		1		10		3	3000		700922 1135258 SW	99	NSLRWMD							
5600297W	17.4		03	6.4	02		91379	AGRboth		2	2	VACHON, OVIDE			56	08	13	0.8	11	38	.85
	5600297-1	83	3	6	02	800			4	150		676120 1094970 GW	08	Back up							
	5600297-2	83	3	4	02	600			4	130		675156 1095979 GW	08	Back up							
	5600297-1S	83	1		02				3	280		675066 1094936 SW	99	NSLRWMD							
	5600297-2S	83	1		02				3	4000		675347 1094865 SW	99	NSLRWMD							
5600299W	105.69		03	38.9	02		91379	AGR	gw	5	0	RAINBOW GROVES, INC			56	08	13	0.8	11	500	.50
	5600299-1	83	1	6	02	800	300		4	200		666909 1070305 GW	08	EXPIRED			20	0.8	11	2380	.50
	5600299-2	83	1	6	02	800	300		4	200		665502 1069422 GW	08								
	5600299-3	83	1	6	02	800	300		4	200		666172 1068708 GW	08								
	5600299-4	83	1	6	02	800	300		4	200		666145 1066406 GW	08								
	5600299-5	83	1	6	02	750	200		4	100		664901 1075074 GW	08								
5600300W	58.4		03		02		91379	PWS	gw	1	0	SOTOLONGO, T.			56	08	13	0.8	4	100	.50
	5600300-1	85	1	5	02	1000	200		4	200		756771 1070966 GW	08								
5600301W	78.2		03	28.8	02		50880	AGR		7	0	MCCARTY, SR., J.N. AND			56	8,1	20	0.8	4	78.2	.50
5600301W	3515.4			672.1	02											8,1	20	0.8	4	3515.4	.50
	5600301-1	82	1	6	02	750	150		4	200		654388. 1068678 GW	08								
	5600301-2	82	1	6	02	750	150		4	200		659343. 1070515 GW	08								
	5600301-3	82	1	8	02	1200	600		4	600		660896. 1065674 GW	08								

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LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
==============================================================================================================================
PERMIT   AN.              ALL  MAX   NO.     DATE  USE SRCNO.    SW                                                        CROP SOIL  RAIN    IRR   IRR
NO.      ALL.             UNT  NO.   UTS CO  ISS.  TYPE   WLS.   PMPS   OWNER                      CO  PERMIT NO.  DEV NO.  AQTYPE TYPE   ST     ACRES  EFF
==============================================================================================================================

LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
===================================================================================
PERMIT   FACILITY      QUAD.  WELL    DPTH           PMP PUM PUMP
NO.      NUMBER        NO. STSDIA.    COD   TD   CD  INT TYP CAP.  MTR?  XPLNR   YPLNR   SRC  AQ  COMMENTS
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         5600301-4  82    1         8 02  200     100       2   600     657005. 1068187 GW  02
         5600301-5  82    1         8 02  200     100       2   600     657371. 1067000 GW  02
         5600301-6  94    1         8 02  200     100       2   600     654796. 1056259 GW  02
         5600301-7  94    1         8 02  200     100       2   600     661649. 1058003 GW  02

5600302W       29.7      03     10.9 02       41080 AGR          1 0    MCCARTY, SR., JOHN M. AND          56                    08   13   1.5    11      38  .50
5600302W       77.9             17.5 02                                                                                           20   1.5    11     100  .50
         5600302-1  83    1         6 02  750     200       4   200     666838. 1091044 GW  08

5600305W       17.2      03      6.3 02      101179 AGR gw       2 0    DEARHARDT GROVES, INC.             56                    08   13   1.5    11      37  .85
         5600305-1  71    1         6 02 1000 315-57        4   250      655665 1131236 GW  08
         5600305-2  71    1         6 02 1000 315-57        4   250      655584 1130091 GW  08

5600306W       62.3      03     22.9 02      101179 AGR gw       3 0    HALL, JAMES & DEBBIE               56                    08   13   0.8    11     136  .85
         5600306-1  71    1         6 02 1008     260       4   300      651167 1117487 GW  08
         5600306-2  71    1         6 02 1030     262       4   280      650956 1115696 GW  08
         5600306-3  71    1         8 02 1000     260       4   450      648691 1115689 GW  08

5600307W       54.7      03     20.1 02      101179 AGRboth      1    2 VAN DER LUGT, C.A. & JUDITH        56                    08   13   1.5    11      70  .50
         5600307-1  71    1         4 02  800     400       4            660711 1128861 GW  08
         5600307-1S 71    1           1               7     3  1200      659666 1129215 SW  99       C-64
         5600307-2S 71    1           1               9     3   900      661296 1129224 SW  99       C-64

5600308W       16.1      03      5.9 02      101179 AGR gw       1 0    HOSKINS, P.R. & S.P.               56                    08   13   1.5    11      35  .85
         5600308-1  71    1         8     1000    250       4   575      657496 1129699 GW  08 Cap.estimated.

5600309W       53.2      03     19.6 02      101179 AGR gw       1 0    PARRISH, JR. J.J.                  56                    08   13   1.5    11      68  .50
         5600309-1  71    1         6      800    345       4   150      656431 1123063 GW  08

5600311W       29.4      03     10.8 02      101179 AGRboth      1    1 BELAIR GROVES, INC.                56                    08   13   0.8    11      64  .85
         5600311-1  71    1         4 02  860     280       4   125      653149 1130662 GW  08
         5600311-1S       1           1              14     1 10000      652708 1131793 SW  99 Rim ditch, Location is guess.
         5600311-1C 71   04           1              18          0 1     652708 1131793 SW  99       Gate

5600312W        7.4      03      2.7 02      101179 AGR gw       1 0    DAVES, MAXINE B.                   56                    08   13   1.5    11      16  .85
         5600312-1  71    1         6 02 1000     300       4   250      654915 1130800 GW  08 Cap. is estim.
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5600313W	170.2		03	62.6	02		101179	AGRboth	5	6	GATES, SR., PHILIP C. &				56	08	13	0.8	11	218	.50
	5600313-1	71	1	6	02	1100	150	4	400		655384 1121281	GW	08								
	5600313-2	71	1	6	02	1100	150	4	350		656746 1121076	GW	08								
	5600313-3	71	1	8	02	1250	150	4	670		656551 1119088	GW	08								
	5600313-4	71	1	8	02	1000	150	4	450		654513 1119713	GW	08								
	5600313-5	71	1	6	02	1000	150	4	175		653116 1119693	GW	08								
	5600313-1S	71	1		02				5000		655917 1121540	SW	99	C-67&68							
	5600313-2S	71	1		02				8000		656149 1119083	SW	99	C-67&68							
	5600313-1C	71	4		02						656149 1119083	SW	99	Screw gate, Location is guess.							
	5600313-2C	71	4		02						656600 1121638	SW	99	Screw gate							
	5600313-3C	71	4		02						657343 1121624	SW	99	Screw gate							
	5600313-4C	71	4		02						657343 1121624	SW	99	Screw gate, Location is guess.							
5600314W	62.1		03	22.8	02		101179	AGRboth	1	1	NESTER, III, R.J. & LINDBLOOM				56	08	13	1.5	11	135	.85
	5600314-1	72	1	5	02	745	270	4	161		664813 1135984	GW	08								
	5600314-1S	72	1	1			13'	1	12000		664116 1134911	SW	99	C-62							
5600315W	18.88		03	6.95	02		101179	AGR gw	1	0	C + N GROVES				56	08	13	1.5	11	40	.50
	5600315-1	72	1	6	02			4	250		664278 1123389	GW	08	EXPIRED,CAP IS ESTIM.							
5600316W	193.2		03	71.1	02		11080	AGRboth	2	1	NESTER, ROBERT J.				56	08	13	0.8	11	420	.85
	5600316-1	83	1	6	02			4	175		675356 1090337	GW	08								
	5600316-2	83	1	6	02			4	350		679075 1090807	GW	08								
	5600316-1S	83	1		02			1	12000		674741 1089796	SW	99	C-24							
5600317W	42.93		03	15.8	02		110879	AGR gw	1	1	STONE, JR., C				56	08	13	0.8	11	80	.50
	5600317-1	71	1	4	02			4	100		653194. 1121687	GW	08	EXPIRED							
	5600317-1S	71	1	24	02			4	15000		654549. 1120885	SW	99	AS OF 10/87							
5600318W	34.3		03	12.6	02		41488	AGR gw	1	0	FIVE STAR GROVES, INC.				56	08	13	0.8	11	75	.85
	5600318-1	71	1	6	02	1100	250	4	225		651290 1133347	GW	08								
5600319W	117.3		03	43.2	02		110879	AGRboth	2	2	HATFIELD, MILTON H. - TRUSTEE				56	08	13	1.5	11	150	.50
	5600319-1	71	1	4	02	600	100	4	50		658048 1134607	GW	08								
	5600319-2	71	1	4	02	600	100	4	100		659281 1134639	GW	08								
	5600319-1S	71	1		02			3	5000		658014 1132391	SW	99	C-63							
	5600319-2S	71	1		02			3	10000		659789 1132404	SW	99	30HP,24"diam							
5600320W	118.19		03	43.5	02		110879	AGR gw	2	0	SIPPICAN GROVES, INC				56	08	13	0.8	11	220	.50
	5600320-1	71	1	6	02	900	150	4	250		653841 1128641	GW	08	EXPIRED							
	5600320-2	71	1	6	02	900	150	4	250		653832 1127629	GW	08								
5600321W	17.5		03	6.4	02		110879	AGR gw	1	0	SIMON, F.A.; SIMON, R.L. &				56	08	13	1.5	11	38	.85
	5600321-1	71	1	4	02	600	100	4	200		654957 1137300	GW	08								
5600322W	73.2		03	26.9	02		110879	AGRboth	1	2	STRIETER GROVES				56	08	13	1.5	11	94	.50
	5600322-1	71	1	6	02	1000	300	4	225		661778 1131795	GW	08								
	5600322-1S	71	1	1			13	3	7500		662070 1130877	SW	99	C-59							
	5600322-2S	71	1	1			9	3	5000		662109 1131350	SW	99	C-59							
5600323W	289.3		03	106.5	02		110879	AGRboth	11	3	SCOTTO & CO. INC., D L				56	08	13	1.5	11	370	.50
	5600323-1	72	1	8	02	1000	200	4	600		664124 1124262	GW	08								

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LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
=====================================================================================================================================
PERMIT    AN.               ALL  MAX    NO.    DATE  USE SRCNO.    SW                                                    CROP SOIL  RAIN    IRR   IRR
NO.       ALL.              UNT  NO.    UTS CO ISS.  TYPE  WLS.    PMPS   OWNER                CO  PERMIT NO.  DEV NO.  AGTYPE TYPE  ST      ACRES EFF
=====================================================================================================================================

LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
==============================================================================
PERMIT    FACILITY    QUAD.  WELL       DPTH          PMP PUM PUMP
NO.       NUMBER      NO. STSDIA.       COD  TD   CD  INT TYP CAP.  MTR?  XPLNR  YPLNR  SRC  AQ  COMMENTS
=====================================================================================================================================
=====================================================================================================================================

          5600323-3  72    1        5 02 1000   200       4   145      662966 1126186 GW  08
          5600323-4  72    1        5 02 1000   200       4   145      665418 1126060 GW  08
          5600323-5  72    1        8 02 1000   200       4   600      664179 1126472 GW  08
          5600323-6  72    3        5 02 1000   200       4   145      664346 1127212 GW  08
          5600323-7  72    1        8 02 1000   200       4   600      664027 1129159 GW  08
          5600323-8  72    3        6 02 1000   200       4   250      664324 1129093 GW  08 Cap is estim.
          5600323-9  72    3        6 02 1000   200       4   250      666851 1129048 GW  08 Cap is estim.
          5600323-10 72    1        8 02 1000   200       4   600      667131 1129258 GW  08
          5600323-11 72    3        4 02 1000   200       4   100      667712 1128709 GW  08 Cap is estim.
          5600323-12 72    3        5 02 1000   200       4   145      664108 1127406 GW  08
          5600323-20S72    1          1              12   3 10000      663046 1126738 SW  99   Header canal
          5600323-21S72    1          1              12   3 10000      665389 1126730 SW  99        C-57
          5600323-38S72    1          1              12   3 10000      665647 1128241 SW  99        C-57
5600324W       50.8        03    18.7 02       110879 AGRboth    2   1 SPYKE, PETER D.           56                  08   13   1.5    11       65  .50
          5600324-1  72    1        6 02 1050             4   250      667665 1112247 GW  08 Cap. is estim.
          5600324-2  72    1        6 02                  4   250      666349 1112201 GW  08 Cap. is estim.
          5600324-1S 72    1          02                  2 20000      666947 1113282 SW  99        C-71
5600325W      214.9        03    79.1 02       110879 AGR gw     9 0  SHAWKEY, DR.               56                  08   13   0.8    11      400  .85
          5600325-1  71    1        6 02  500   240       4   300      657198 1117348 GW  08      EXPIRED
          5600325-2  71    1        6 02  500   240       4   300      656568 1117250 GW  08
          5600325-3  71    1        6 02  500   240       4   350      655375 1117407 GW  08
          5600325-4  71    1        6 02  600   350       4   350      656354 1114884 GW  08
          5600325-5  71    1        6 02  600   350       4   400      655290 1114853 GW  08
          5600325-6  71    1        6 02  900   500       4   400      654026 1114809 GW  08
          5600325-7  71    1        6 02  900   500       4   400      653267 1116060 GW  08
          5600325-8  71    1        6 02  900   500       4   400      653390 1113904 GW  08
          5600325-9  71    1        6 02  900   500       4   400      652749 1114918 GW  08
5600326W       60.2        03    22.2 02       110879 AGRboth    3   1 WEAVER, MONTIE M          56                  08   13   1.5    11       77  .50
          5600326-1  72    1        6 02  900             4   528      665402 1111484 GW  08
          5600326-2  72    1        6 02  800   226       4   352      664248 1111147 GW  08
          5600326-3  72    3        6 02  900             4   352      664246 1111958 GW  08
          5600326-1S 72    1          02                  2  8000      663125 1111528 SW  99  Header canal
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5600327W	46		03	16.9	02		110879	AGRboth	2	1	ORR, SR., DR. ALVA. D.					56	08	13	0.8	11	100	.85
	5600327-1	71	1	6	02	900			4	250	648536	1116448	GW	08	Cap. is estim.							
	5600327-2	71	1	8	02	900			4	575	647986	1115033	GW	08	Cap. is estim.							
	5600327-1C	71	04		02						648439	1116748	SW	99	USLRWMD,Culvert							
5600328W	6.95		03	6.9	02		110879	AGR gw	2	0	ROBINSON, JR., H K					56	08	13	1.5	11	40	.50
	5600328-1	72	4	5	02				4	200	663613	1123809	GW	08	EXPIRED							
	5600328-2	72	4	5	02				4	200	664741	1123745	GW	08								
5600329W	7.04		03	2.6	02		110879	AGR sw	0	1	DUN, JR. W					56	08	13	1.5	11	9	.50
	5600329-1	72	1		02				2	20000	666807	1116039	SW	99	C-71							
5600331W	1596.1		03	305.6	02		110879	AGRboth	3	4	CARLTON, MARY E					56	08	20	0.8	11	1600	.50
	5600331-1	82	1	6	02	1000	900		4	50	648342	1093503	GW	08								
	5600331-2	82	1	4	02	1000	900		4	50	652811	1095147	GW	08								
	5600331-3	82	1	6	02	1000	900		4	50	655101	1096013	GW	08								
	5600331-1S	82	1	1				14	3	18000	647377	1097367	SW	99	C-24							
	5600331-2S	82	1	1				17	3	18000	651462	1092501	SW	99	C-24							
	5600331-1C		4	1				14			651462	1092501	SW	99	C-24,Location is guess.,culvert							
	5600331-2C		4	1				17			651462	1092501	SW	99	C-24,Location is guess.,culvert							
5600333W	62.5		03	23	02		31380	AGRboth	1	2	SCHUMANN GROVES, INC.					56	08	13	1.5	11	80	.50
	5600333-1	71	1	6		800	150		4	250	657429	1137677	GW	08	Cap is estim.							
	5600333-1S	71	1	1				3	2	10000	657093	1140089	SW	99	C-61							
	5600333-2S	71	1	1				3	2	16000	656678	1137675	SW	99	C-61							
5600335W	28.9		03	10.6	02		31380	AGRboth	1	1	SCHUMANN GROVES, INC.					56	08	13	1.5	11	37	.50
	5600335-1	71	1	6	02	800	150		4	250	656561	1129600	GW	08	CAp. is estim.							
	5600335-1S	71	1	1				3	2	10000	656966	1129609	SW	99	C-64							
5600336W	62.5		03	23	02		31380	AGRboth	1	3	SCHUMANN GROVES, INC.					56	08	13	1.5	11	80	.50
	5600336-1	71	1	6	02	800	150		4	250	653084	1138022	GW	08	Cap is estim.							
	5600336-1S	71	1	1				3	2	10000	652571	1137719	SW	99	C-61							
	5600336-2S	71	1	1				3	2	10000	653603	1137594	SW	99	C-61							
	5600336-3S	71	1	1				3	2	10000	653154	1140062	SW	99	NSLRWMD							
5600337W	31.3		03	11.5	02		31380	AGRboth	2	1	SCHUMANN GROVES, INC.					56	03	13	1.5	11	40	.50
	5600337-1	71	1	6	02	800	150		4	250	655368	1139550	GW	08	Cap. is estim.							
	5600337-2	71	1	6	02	800	150		4	250	655554	1137704	GW	08	Cap. is estim.							
	5600337-1S		1	1				3	2	10000	655754	1137704	SW	99	NSLRWMD,Loc. is guess							
5600340W	115		03	42.3	02		41080	AGRboth	3	1	PALM INDIAN, INC					56	08	13	1.5	11	250	.85
	5600340-1	72	1	8	02	1000			4	575	677600	1111659	GW	08	Cap. is est.							
	5600340-2	72	1	6	02	1000			4	250	677613	1110346	GW	08	"							
	5600340-3	72	1	6	02	1000			4	250	677646	1109057	GW	08	"							
	5600340-1S	72	1	1				10	3	10000	677628	1112727	SW	99	10miCreek							
5600342W	39		03		02		41080	PWS gw	2	0	BRYN MAWR CAMP RESORTS, INC.										54	
	5600342-2	62	2	5	1	1000	700		4	250	722002	1162199	GW	08	PROPOSED IN 1980							
	5600342-1	62	1	4	1	880	650		4	60	721921	1163441	GW	08	4"PVC LINER							
5600343W	466.4		03	171.7	02		50880	AGRboth	22	5	BIRDSALL, JOHN					56	08	13	1.5	11	1014	.85

LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)

PERMIT NO. | AN. ALL. | ALL UNT | MAX MO. | NO. UTS | CO | DATE ISS. | USE TYPE | SRCNO. WLS. | SW PMPS | OWNER | CO | PERMIT NO. | DEV NO. | CROP AGTYPE | SOIL TYPE | RAIN ST | IRR ACRES | IRR EFF

LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)

PERMIT NO. | FACILITY NUMBER | QUAD. NO. | WELL STSDIA. | DPTH COD | TD | CD | PMP INT | PUM TYP | PUMP CAP. | NTR? | XPLNR | YPLNR | SRC | AQ | COMMENTS

	5600343-1	71	3	6	02	900		4	270		660190	1115923	GW	08								
	5600343-2	71	1	6	02	900		4	270		660237	1114935	GW	08								
	5600343-3	71	3	6	02	900		4	270		661929	1114274	GW	08								
	5600343-4	71	1	6	02	900		4	270		659923	1113634	GW	08								
	5600343-5	71	3	6	02	900		4	270		662194	1112917	GW	08								
	5600343-6	71	3	6	02	900		4	270		661953	1111367	GW	08								
	5600343-7	71	3	4	02	900		4	110		661271	1111389	GW	08								
	5600343-8	71	3	6	02	900		4	270		659285	1112014	GW	08								
	5600343-9	71	3	6	02	900		4	270		658425	1112429	GW	08								
	5600343-10	71	3	6	02	900		4	270		658378	1112007	GW	08								
	5600343-11	71	1	8	02	900		4	450		658180	1111063	GW	08								
	5600343-12	71	3	5	02	900		4	185		662053	1110050	GW	08								
	5600343-13	71	3	5	02	900		4	185		660817	1110087	GW	08								
	5600343-14	71	3	4	02	900		4	110		661973	1108777	GW	08								
	5600343-15	71	1	5	02	900		4	185		661193	1108972	GW	08								
	5600343-16	71	1	5	02	900		4	185		662007	1106677	GW	08								
	5600343-17	71	1	6	02	900		4	270		657683	1110656	GW	08								
	5600343-18	71	3	6	02	900		4	270		655386	1110702	GW	08								
	5600343-19	71	3	6	02	900		4	270		654965	1110664	GW	08								
	5600343-20	71	3	6	02	900		4	270		656478	1109424	GW	08								
	5600343-21	71	1	6	02	900		4	270		653831	1109814	GW	08								
	5600343-22	71	1	10	02	900		4	1200		655297	1108409	GW	08								
	5600343-1S	71	1		02				8000		662322	1107397	SW	99	N StLucie-C							
	5600343-2S	71	1		02				6000		662324	1108051	SW	99	N StLucie-C							
	5600343-3S	71	1		02				8000		660369	1113691	SW	99	N StLucie-C							
	5600343-4S	71	1		02				9000		659804	1116042	SW	99	N StLucie-C							
	5600343-5S	71	1		02				6000		653877	1109228	SW	99	N StLucie-C							
5600344W	38.2		03	6.08	02		50880	AGRboth	2	0	AMERICAN BELTEK, INC					56	08	13	1.5	11	35	.50
	5600344-1	72	1	4	02			4	150		663084	1133897	GW	08	EXPIRED							
	5600344-2	72	1		02				10000		662939	1134565	GW	08	N StLucie-C							
5600345W	29.7		03	10.9	02		50880	AGRboth	2	1	CASSENS GROVE SERVICE					56	08	13	1.5	11	38	.50
	5600345-1	72	1	5	02	700	100	4	300		664576	1122577	GW	08	Cap. is est.							
	5600345-2	72	1	4	02	700	100	4	250		663819	1122423	GW	08	"							
	5600345-1S	72			02			3	4000		665549	1122283	SW	99	C-57							

5600346W	21.9		03	3.48	02		50880	AGR gw	1		0 DILLIN BROTHERS CITR	56	08	13	1.5	11	20	.50
	5600346-1	72	1	5	02	900			4	250	666191 1122247 GW 08 EXPIRED							
5600347W	34.5		03	12.7	02		50880	AGR gw	1		0 SLONIN, RALPH & ROBERTA	56	08	13	0.8	11	75	.85
	5600347-1	71	1	6	02	600			4	250	650459 1133457 GW 08 Cap. is est.							
5600348W	39.6		03	14.6	02		50880	AGRboth	1		1 WINGFIELD, INC	56	08	13	0.8	11	86	.85
	5600348-1	72	1	8	02	980	300		4	850	674319 1126108 GW 08							
	5600348-1S	72	1		1			6.	2	6500	673750 1124972 SW 99 C-54							
	5600348-1C		04		1			6.		6500	673750 1124972 SW 99 Ditch-54, Location is guess,cap. is guess							
5600349W	218.2		03	30.2	02		50880	AGR gw	5		0 EVANS PROPERTIES, INC.	56	08	13	1.5	11	279	.50
	5600349-1	71	1	6	02	860	260		4	200	662068 1122979 GW 08							
	5600349-2	71	1	4	02	860	260		4	150	660964 1122944 GW 08							
	5600349-3	71	1	4	02	860	260		4	100	659080 1122111 GW 08							
	5600349-4	71	1	5	02	860	260		4	150	658667 1123073 GW 08							
	5600349-5	71	1	5	02	860	260		4	100	658055 1122514 GW 08							
5600350W	33.1		03	12.2	02		50880	AGRboth	4		1 KIRCHHOFF, WILLIAM - TRUSTEE	56	08	13	0.8	11	72	.85
	5600350-1	72	1	5	02	900	250		4	150	670706 1106474 GW 08 Cap. is est.							
	5600350-2	72	1	6	02	900	250		4	250	669312 1106027 GW 08 "							
	5600350-3	72	1	4	02	900	250		4	100	668995 1106502 GW 08 "							
	5600350-4		1	5	02	900	250		4	150	668400 1106000 GW 08 "							
	5600350-1S	72	1		02				1	450	667425 1105977 SW 99 C-85							
5600351W	13.9		2	13.9	2		50880	AGRBOTH	3		1 CARE, R F & HARVEST	56	08	13	0.8	11	40	0.5
	5600351-1	71	1	6	2	850				450 N	650074. 1136822 GW 08 EXPIRED							
	5600351-2	71	1	8	2	850				450 N	650076. 1136318 GW 08 NEW PERMIT NOT IN FILE							
	5600351-3	71	1	8	2	850				450 N	650079. 1135611 GW 08 WORKED OFF PLD PERMIT 1980							
	5600351-4S	71	1		2				1	10000 N	650072. 1137428 SW 99 CANAL 61, 2 WAY PUMP							
5600352W	40.6		3	14.9	2		50880	AGR gw	1		0 CASSENS GROVE SERVICE	56	08	13	1.5	11	52	0.5
	5600352-1	72	1	10	2	1000	200		4	650	679673 1114794 GW 08							
5600353W	113.4		3	41.7	2			AGR sw			1 TRUST, "J"	56	08	13	0.8	11	160	0.5
	5600353-S	72	1		2				3	10000	670212 1134953 SW 99 C-62							
5600354W	258.9		3	95.3	2		50880	AGRboth	3		6 DL SCOTTO & CO., INC.	56	08	13	1.5	11	360	0.5
	5600354-1	83	1	8	2	876	320		4	425	680166 1101594 GW 08							
	5600354-2	83	1	7	2	392	344		4	368	680400 1102919 GW 08							
	5600354-3	83	1	8	2	412	412		4	200	678247 1103453 GW 08							
	5600354-1S	83	1		2				3	12000	679085 1102743 SW 99 C-90							
	5600354-2S	83	1		2				3	3000	681315 1104135 SW 99 C-91							
	5600354-3S	83	1		2				3	6000	676983 1103514 SW 99 11miCreek							
	5600354-4S	83	1		2				3	3000	677672 1104384 SW 99 C-91							
	5600354-5S	83	1		2				3	3000	678787 1103022 SW 99 C-91							
	5600354-6S	83	1		2				3	3000	678834 1104547 SW 99 C-91							
5600355W	95.6		3	35.2	2		50880	AGRboth	4		2 HAMILTON, INEZ	56	08	13	1.5	11	122	0.5
	5600355-1	72	1	10	2	980	320		4	850	664275 1139814 GW 08 Cap. is est.							
	5600355-2	72	1	6	2	800			4	250	664983 1139503 GW 08 "							
	5600355-3	72	1	6	2	800			4	250	663602 1139685 GW 08 "							

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LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
==============================================================================================================================================
                                                                                                          CROP SOIL  RAIN   IRR   IRR
PERMIT   AN.              ALL  MAX   NO.     DATE  USE SRCNO.   SW                         CO  PERMIT NO.  DEV NO.  AQTYPE TYPE  ST    ACRES  EFF
NO.      ALL.             UNT  NO.   UTS CD  ISS.  TYPE   WLS.  PMPS  OWNER
==============================================================================================================================================

LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
==================================================================================
PERMIT   FACILITY      QUAD.  WELL     DPTH           PMP PUM PUMP
NO.      NUMBER        NO. STSDIA.     COD  TD    CD  INT TYP CAP.  MTR?  XPLNR  YPLNR  SRC  AQ  COMMENTS
==============================================================================================================================================
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                                                    4   250     664223 1139212 GW  08 "
         5600355-4  72      1        6  2 1000     10   1 10000     664233 1140099 SW  99        C-25
         5600355-1S 72      1              1       15   1 12000     665342 1139237 SW  99        C-57
         5600355-2S 72      1              1                        664117 1139504 SW  99  C-25,culvert
         5600355-1C 72      4              2                        664117 1139504 SW  99 C-25, Location is Guess.,culvert
         5600355-2C         4              2
                                                                                               56                      08   13   1.5    11     832 0.85
5600357W      382.7         3     140.9  2          61280 AGRboth     3   3 EVANS PROPERTIES,INC
         5600357-1  71      1         8  2                        4  1100     646112 1109185 GW  08
         5600357-2  71      1         6  2                        4   225     644971 1106801 GW  08
         5600357-3  71      1        10  2                        4  1200     643438 1109182 GW  08 Cap. is estim.
         5600357-1S 71      1            2                        3 25000     643510 1113333 SW  99    Rollison C
         5600357-2S 71      1            2                        3  6000     645767 1113424 SW  99    Rollison C
         5600357-3S 71      1            2                        3 25000     646703 1110440 SW  99        C-24
                                                                                               56                      08   13   1.5    11      52 0.75
5600358W       33.3         3     12.26  2          61280 AGR sw      0   2 BROWN, R.L.
         5600358-1  72      1            2                        3  3000     665695 1131373 SW  99        C-57
         5600358-2  72      1            2                        3  3000     665765 1130078 SW  99        C-57
                                                                                               56                      08   13   1.5    11      36  0.5
5600359W         17         3      6.26  2          61280 AGR gw      2   0 BRONSON GROVES, INC
         5600359-1  72      3         5  2 1000                     100     682511 1106438 GW  08
         5600359-2  83      1         6  2 1000                     150     682555 1105652 GW  08
                                                                                               56                      08   13   1.5    11      55  0.5
5600360W       25.9         3      9.56  2          61280 AGRboth     2   0 JOHNSON, A
         5600360-1  72      1         4  2  700     160       4     100     697092 1136431 GW  08
         5600360-2  72      1         4  2  500     100       4      45     696564 1137226 GW  08
                                                                                               56                           13   0.8    11     160  0.5
5600363W      125.1         3        46  2          71080 AGRboth     0   1 CHICAGO CITRUS INVESTORS
         5600363-1S 82      1            1              15    3 15000     659164 1095068 SW  99        C-78
                                                                                               56 5600365W             8,1  13   1.5    11      20 0.85
5600365W        9.2         3      3.39  2          71080 AGR gw      2   0 BAILEY, CODY LEE
         5600365-1  83      1         4  1   26      23 15    2   350     677465 1097596 GW  02
         5600365-2  83      1         4  2  600     240       4   150     677282 1098141 GW  08
                                                                                               56                      08   13   1.5    11     192  0.5
5600366W      150.3         3      55.3  2          71080 AGRboth     8   2 MINTO GROVES
         5600366-1  72      1         5  2  500     300       4   250     676945 1106005 GW  08 Cap. is estim.
         5600366-2  72      1         5  2  500     300       3   250     677592 1106547 GW  08 "
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	5600366-3	72	1	5	2	500	300		4	250		674881	1105994	GW	08	"								
	5600366-4	72	1	6	2	500	300		4	250		674860	1106660	GW	08	"								
	5600366-5	72	1	5	2	500	300		4	250		677071	1107495	GW	08	"								
	5600366-6	72	1	3	2	500	300		3	75		676224	1106931	GW	08	"								
	5600366-7	72	1	4	2	500	300		4	100		675373	1107471	GW	08	"								
	5600366-8	72	1	5	2	500	300		4	250		676473	1107431	GW	08	"								
	5600366-1S	72	1		2				3	25000		674489	1108047	SW	99		C-83							
	5600366-2S		1		2				3	2500		674489	1108047	SW	99	C-83, Location is Guess.								
	5600366-1C		4		2											11MiCreek, culvert								
5600367W	53.1		3	19.5	2		71080	AGRboth		2	2	BECKER HOLDING CORPORATION						56	08	13	1.5	11	115	0.85
	5600367-1	83	1	6	2				4	300		668677	1097664	GW	08	PERMIT states Floridan use								
	5600367-2	83	1	4	2				4	125		669366	1097134	GW	08		"							
	5600367-1S	83	1		2				1	6000		668453	1096900	SW	99		C-85							
	5600367-2S	83	1		2				1	950		668475	1096616	SW	99		C-85							
5600368W	7.51		2	7.51	2		71080	AGRboth		1	1	STONE, JR., C						56	08	13	0.8	11	38	0.5
	5600368-1	82	1	4	2	600			4	100		650903	1101666	GW	08									
	5600368-1S	82	1		2				3	10000		651584	1102397	SW	99		NSLRWMD							
5600369W	54		3	19.9	2		71080	AGR gw		4	0	CULVERHOUSE, JOHN B						56	08	13	0.8	11	117	0.85
	5600369-1	82	1	10	2	1300	380		4	1650		653853	1101249	GW	08									
	5600369-2	82	3	8	2	1100	360		4	600		653317	1100329	GW	08									
	5600369-3	82	1	10	2	1300	440		4	1250		653012	1100345	GW	08									
	5600369-4	82	3	4	2	1000	380		4	150		652520	1101909	GW	08									
5600370W	162.2		3	60.4	2		71080	AGRboth		10	3	SCOTTO & COMPANY, D.L.						56	08	13	1.5	11	210	0.5
	5600370-1	83	1	8	2	1000	2-300		4	384		672266	1099954	GW	08									
	5600370-2	83	1	5	2	1000	2-300		4	286		670991	1099915	GW	08									
	5600370-3	83	1	4	2	800	2-300		4	213		671101	1098977	GW	08									
	5600370-4	83	1	5	2	1000	2-300		4	236		672256	1098935	GW	08									
	5600370-5	83	1	5	2	1000	2-300		4	334		672835	1098658	GW	08									
	5600370-6	83	1	6	2	1000	2-300		4	176		673312	1098724	GW	08									
	5600370-7	83	1	8	2	1000	2-300		4	603		672806	1098088	GW	08									
	5600370-8	83	1	6	2	1000	2-300		4	339		673218	1097561	GW	08									
	5600370-9	83	3	4	2	800	2-300		4	213		673463	1098204	GW	08	Cap. is guess.								
	5600370-10	83	1	5	2	1000	2-300		4	160		674251	1099295	GW	08									
	5600370-1S		1		2				3	6000		674551	1099295	SW	99	C-85, Location is guess.								
	5600370-2S		1		1			13	3	10000		674551	1099295	SW	99		C-88							
	5600370-3S		1		2				3	6000		674551	1099295	SW	99		C-87							
5600372W	8.2		3	3	2		71080	AGRboth		1	1	VACHON, OVIDE						56	08	13	0.8	11	18	0.85
	5600372-1	83	3	6	2	900			4	150		673866	1097175	GW	08									
	5600372-1S	83	1		2				1	400		673803	1096906	SW	99		C-87							
5600373W	8.37		3	3.09	2		71080	AGR gw		1		JOHNSTON, D						56	08	13	1.5	11	18	0.5
	5600373-1	83	1	6	2				4	223		678251	1102093	GW	08									
5600374W	3.62		2	3.62	2		71080	AGR sw		0	2	HOEFFNER, B						56		13	0.8	11	18	0.5
	5600374-1S	72	1		2				3	3500		701648	1134794	SW	99		NSLRWMD							
	5600374-2S	72	1		2				3	3500		702145	1134814	SW	99									

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LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
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                                                                                                       CROP SOIL  RAIN   IRR   IRR
PERMIT   AN.               ALL  MAX   NO.    DATE  USE SRCNO.   SW                     CO  PERMIT NO.  DEV NO. AGTYPE TYPE  ST     ACRES EFF
NO.      ALL.              UNT  NO.   UTS CO ISS.  TYPE  WLS.   PMPS   OWNER
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LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
==========================================================================
                                                 PMP PUM PUMP
PERMIT   FACILITY     QUAD.  WELL      DPTH
NO.      NUMBER       NO. STSDIA.      COD  TD   CD  INT TYP CAP.  MTR?  XPLNR  YPLNR  SRC  AO  COMMENTS
======================================================================================================================================
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                                                                                       56                    08  13  0.8   11     18 0.85
5600378W      8.28        3       3  2         71080 AGR gw     1  0 NAVAJO GROVES, INC
         5600378-1  72    1       6  2  800              4    300    685565 1107817 GW  08
                                                                                       56                    08  13  1.5   11    427  0.5
5600380W     333.8        3   122.8  2         81480 AGRboth    3  5 EVANS PROPERTIES, INC.
         5600380-1  72    1       4  2                     3  100    666154 1120269 GW  08 Used to fill sprayers
         5600380-2  72    1       4  2                     3  100    666460 1115250 GW  08              "
         5600380-3  72    1       4  2                     3  100    666289 1114454 GW  08              "
         5600380-1S 72    1          2                     3 4000    665748 1120828 SW  99 C-58&71,HeaderC
         5600380-2S 72    1          2                     3 4000    667071 1116258 SW  99 C-58&71,HeaderC
         5600380-3S 72    1          2                     3 10000   665584 1115906 SW  99 C-58&71,HeaderC
         5600380-4S 72    1          2                     3 10000   663142 1114769 SW  99 C-58&71,HeaderC
         5600380-5S 72    1          2                     3 10000   665675 1113739 SW  99 C-58&71,HeaderC
                                                                                       56                    08  13  1.5   11    142  0.5
5600381W     111          3    40.8  2         81480 AGRboth    5  2 EVANS PROPERTIES, INC.
         5600381-1  83    3       4  2  700    225       4    100    668485 1094707 GW  08
         5600381-2  83    3       4  2  700    225       4    100    669528 1094656 GW  08
         5600381-3  83    1       4  2  700    225       4    100    669494 1094440 GW  08
         5600381-4  83    3       4  2  700    225       4    100    669492 1093942 GW  08
         5600381-5  83    1       4  2  700    225       4    100    669486 1093722 GW  08
         5600381-1S 83    1          2                     3 10000   670491 1094678 SW  99        C-85
         5600381-2S 83    1          2                     3 8000    668515 1093668 SW  99       C-107
                                                                                       56                    08  13  0.8   11    141  0.5
5600383W     110.1        3    40.5  2         91180 AGRboth    5  2 EVANS PROPERTIES, INC.
         5600383-1  82    4       4  2  700    225       4    100    658939 1094775 GW  08 Cap. is estimated
         5600383-2  82    1       4  2  700    225       4    100    659216 1094675 GW  08 Cap. is estimated
         5600383-3  82    1       6  2  700    225       4    250    659224 1092359 GW  08 Cap. is estimated
         5600383-4  82    4       4  2  700    225       4    100    658959 1092319 GW  08 Cap. is estimated
         5600383-5        2      10  2 1000    400       4    850    658959 1092319 GW  08 Location is guess.
         5600383-1S 82    4          2                     3 10000   659746 1092376 SW  99   Removed/C-24
         5600383-2S 82    1          2                     3 10000   659987 1094728 SW  99        C-78
5600386W     390.96       3   143.9  2         11581 AGRboth    3  2 PIKE,R/GERMANY HAMMOCK GROVES     56    08  13  0.8   11    500  0.5
         5600386-1  82    1       8  2 1200    400       4    800    644694. 1079447 GW  08
         5600386-2  82    1      12  2 1200    400       4   1200    642614. 1080954 GW  08
         5600386-3  82    1      12  2 1200    400       4   1200    642257. 1079741 GW  08
         5600386-4  82    2      12  2 1200    400       4   1200    644783. 1079851 GW  08
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	5600386-5	82	2	12	2	1200	400		4	1200	644697.	1078740	GW	08								
	5600386-1S	82	1		1			14	1	10000	646148.	1076423	SW	99								
	5600386-2S	82	1		1			11	1	12000	642269.	1076409	SW	99								
5600390W	63.08		3	9.48	2		11581	LAN gw		2	0 ISLAND DUNES, INC.					56	08	15	0.8	11	50	.85
	5600390-1	85	1	6	2	1000	700		4	500	752758	1079114	GW	08								
	5600390-2	85	1	8	2	1000	700		4	750	752975	1079124	GW	08								
5600392W	11.7		3	4.32	2		21281	AGR sw			1 BAGGETT, W H					56		13	0.8	11	20	0.85
	5600392-1S	72	1		1			10	3	400	693259	1140096	SW		C-25							
5600396W	261.8		3	96.4	2		51481	AGRboth		8	1 E.B. GROVES, INC.					56	08	13	0.8	11	569	0.85
	5600396-1	82	1	12	2	980	560		4	1200	638076	1104477	GW	08	<Exact location							
	5600396-2	82	1	12	2	960	535		4	1200	640493	1104288	GW	08	<unknown							
	5600396-3	82	2	12	2	1000	300		4	1200	637957	1103790	GW	08								
	5600396-4	82	2	12	2	1000	300		4	1200	640402	1103312	GW	08								
	5600396-5	82	2	12	2	1000	300		4	1200	637824	1101795	GW	08								
	5600396-6	82	2	12	2	1000	300		4	1200	640273	1101004	GW	08								
	5600396-7	82	2	12	2	1000	300		4	1200	637761	1100872	GW	08								
	5600396-8	82	2	12	2	1000	300		4	1200	640261	1100744	GW	08								
	5600396-1S		1		2	14		1	1	7500	640261	1100844	SW	99	C-24, location is guess.							
5600401	62.05		3	5.1	2		80681	PWSgw		3	0 SPANISH LAKES C CLUB					56 5600401W	02				259	
	5600401-1	61	1	8.00	2	100	80		3	220	697867	1168157	GW	02								
	5600401-2	61	1	8.00	2	100	80		3	220	698618	1168264	GW	02	completed well 10/89.							
	5600401-3	61	1	8.00	2	100	80		3	220	699056	1169578	GW	02								
5600406	136.00		3	22.38	2		100881	PWSgw		2	0 HOLIDAY PINES SERVIC					56 5600406W	02				373	
	5600406-1	61	1	8.00	2	108	70		3	700	699207	1160076	GW	02								
	5600406-2	61	1	8.00	2	95	60		3	700	698945	1160061	GW	02								
5600407	137.5		3	50.60	2		100881	AGRbot		1	2 WILDLIFE GROVE					56 5600407W	08	13	1.5	11	299	0.85
	5600407-1	83	1	16.00	2	1300	400		4	3000	685049	1079687	GW	08								
	5600407-1S	83	1		1			14	3	15000	679757	1083612	SW	99	C-24							
	5600407-2S	83	1		1			14	3	15000	683808	1079291	SW	99	C-24							
5600413	31.54		3	4.36	2		121081	MINgw			STEWART, BEN TRUCKING					56 5600413W					25	
	5600413-1S	62	1		1			-20			706067	1162418	SW	99	dewatering							
5600416	4.20		2	4.20	2		10782	AGRBOT		2	1 DOUGLASS, P W					56 5600416W	02	13	0.8	11	20	0.85
	5600416-1	84	1	8.00	2	100	80		2	500	720570	1094835	GW	02	FILE OUT-B. KIRK							
	5600416-2	84	3	4.00	2	100	80		2	100	720577	1094321	GW	02	PERMIT EXPIRED 10/88							
	5600416-P1	84	1		1					300	720577	1094321	SW	99	ON SITE POND,Loc.guessed							
5600417	55.10		3	20.30	2		10782	AGRbot		10	3 UNIVERSITY OF FLA AGRICULTURE					56 5600417W	8,2	13	0.8	11	120	0.85
5600417																	8,2	20	0.8	11	50	0.5
5600417																	8,2	61	0.8	11	25	0.5
	5600417-1	72	1	8.00	2	800	300		4	45	686740	1128480	GW	08								
	5600417-2	72	1	6.00	2	800	300		4	45	694004	1125038	GW	08								
	5600417-3	72	1	3.00	2	800	300		4	45	694133	1124340	GW	08	Cap. est.							
	5600417-4	72	1	6.00	2	110	110		1	150	692644	1125398	GW	02								
	5600417-5	72	1	1.50	2	90	90		2	10	694079	1124649	GW	02								
	5600417-6	72	1	2.00	2	90	90		2	10	692824	1124367	GW	02								

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LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
==========================================================================================================================
PERMIT   AN.              ALL  MAX     NO.     DATE  USE SRCNO.    SW                                                                    CROP SOIL  RAIN    IRR    IRR
NO.      ALL.             UNT  NO.     UTS CO  ISS.  TYPE  WLS.    PMPS   OWNER                     CO  PERMIT NO.  DEV NO.  AGTYPE TYPE   ST     ACRES  EFF
==========================================================================================================================

LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
==========================================================================================
PERMIT   FACILITY     QUAD.  WELL        DPTH             PMP PUM PUMP
NO.      NUMBER       NO. STSDIA.        COD  TD    CD    INT TYP CAP.  MTR?  XPLNR  YPLNR  SRC  AQ  COMMENTS
==========================================================================================================================
==========================================================================================================================

         5600417-7    72  1     2.00  2   90     90        2      12        691454 1124438 GW  02
         5600417-8    72  1     2.00  2   90     90        2      12        691190 1124368 GW  02
         5600417-9    72  1     2.00  2   90     90        2      12        691139 1124709 GW  02
         5600417-10   72  1     2.00  2   90     90        2      12        689303 1126535 GW  02
         5600417-1S   72  1           2                    1    1000        691147 1124187 SW  99 ResearchCntr.Rd.Canal
         5600417-2S   72  1           2                    1    1700        694157 1126702 SW  99  PicosRd.Canal
         5600417-3S   72  1           2                    1    2000        692888 1126721 SW  99  PicosRd.Canal

5600418        76.10       3   12.60  2       10782 AGRbot      5     1 BURNAC PRODUCE, INC                   56 5600418W          02   20   1.5    11       86 0.75
5600418                                                                                                                          02   61   1.5    11       22   .5
         5600418-1    83  1     6.00  2   70     35  40    2      80        666855 1100068 GW  02
         5600418-2    83  1     6.00  2   70     35        3     100        666801 1099643 GW  02
         5600418-3    83  5     6.00  2  760    300        4     100        665686 1101193 GW  08 Plugged by District
         5600418-4    83  5     6.00  2  760    300        4     100        666573 1098843 GW  08                      "
         5600418-5    83  5     6.00  2  760    300        4     100        667972 1098991 GW  08                      "
         5600418-1S   83  1           2                    3    2000        667972 1098991 SW  99 C-85, Loc. guessed

5600421        13.90       3    5.16  2       21182 AGRbot      1     1 KLASSEN, VIC                          56 5600421W          02   61   0.8    11        5  0.5
5600421                                                                                                                          02   20   0.8    11        5  0.5
         5600421-1    84  1     2.00  2   84               3     100        722159 1090838 GW  02
         5600421-1S   84  1           2                    3     500        722132 1091135 SW  99        Pond

5600428      2305.30       3  848.50  2       31182 AGRbot     10     4 DUDA, A. & SONS, INC.                 56 5600428W          08   13   0.8    24     5012 0.85
5600428                                                                                                                          08   15   0.8    24     2000  0.5
         5600428-16   95  1    16.00  2  373    363        4    1500        690122 1057809 GW  08 Capacities estimated.
         5600428-19   83  1    16.00  2  935    480        4    1500        684808 1069803 GW  08 "
         5600428-21   83  1     4.00  2  365    352        4     100        681155 1071728 GW  08 "
         5600428-22   83  1     5.00  2  695    350        4     250        681632 1071814 GW  08 "
         5600428-23   83  1     4.00  2  733    355        4     100        672053 1074978 GW  08 "
         5600428-24   83  5     4.00  2                    4     100        674087 1081346 GW  08 "
         5600428-25   83  1     5.00  2  395    367        4     250        679152 1074929 GW  08 "
         5600428-26   83  5     5.00  2                    4     250        679424 1078713 GW  08 "
         5600428-27   83  5     5.00  2                    4     250        679815 1079040 GW  08 "
         5600428-18   83  1     4.00  2  557    469              100        684666 1060754 GW  08 "
         5600428-7S   83  2           1               14   3   30000        683240 1075441 SW  99        C-24
         5600428-7S   83  2           1               14   3   30000        685248 1077117 SW  99        C-24
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	5600428-PC14	83	2		1			14	3	18000		685248 1077117 SW 99	C-23,Loc. guess							
	5600428-PC16	83	2		1			14	3	18000		685248 1077117 SW 99	C-23,Loc. guess							
	5600428-PC13	83	1		1			8		18000		693890 1044686 SW 99	C-24, loc. estim.,cap. estim.							
	5600428-14AC	83	1		1			14		18000		693890 1044686 SW 99	C-24, cap. est.							
	5600428-16C	83	4		1			12		18000		690054 1044625 SW 99	C-24, cap. est.							
5600429	625.50		3	230.20	2		41582	AGRGW		5	0	MAYACA LAND CORPORATION		56 5600429W	02	13	0.8	12	1200	0.75
	5600429-1	93	1	8.00	2	240	185		2	180		605958. 1058627 GW 02	PERMITTED FLORIDAN : WRONG							
	5600429-2	93	1	8.00	2	220	130		2	180		606046. 1059637 GW 02	PROB. SURFICIAL WELLS							
	5600429-3	93	1	8.00	2	220	130		2	180		608304. 1058734 GW 02	THIS PERMIT ALL WRONG, FAC. CAP. TOO HIGH.							
	5600429-4	93	1	8.00	2	220	130		2	180		608302. 1059643 GW 02	NOT FLORIDAN, MID-HAWTHORN, MAX MO. TOO HIGH							
	5600429-5	93	3	10.00	2	1300	130		2	?		607491. 1059237 GW 02	CAPPED, USE IN FUTURE							
5600430	42.10		3	16.00	2		41582	AGRgw		3	0	BOWDEN, R K		56 5600430W	2,8	13	1.5	11	175	0.85
	5600430-1	59	1	10.00	2	800	250		4	1000		616100 1165099 GW 08	EXPIRED							
	5600430-2	59	1	8.00	2	100	90		3	350		615100 1166995 GW 02								
	5600430-3	59	1	8.00	2	100	90		3	350		615053 1169378 GW 02								
5600432	63.40		3	23.40	2		41582	AGRgw		9	0	SCOTT, L.W.		56 5600432W	2,8	13	1.5	11	574	0.85
	5600432-1	59	2	10.00	2	800	250		4	1000		616246 1158069 GW 08	EXPIRED							
	5600432-2	59	2	10.00	2	800	250		4	1000		616252 1155645 GW 08								
	5600432-3	59	2	8.00	2	100	90		3	350		616148 1161915 GW 02								
	5600432-4	59	2	8.00	2	100	90		3	350		616339 1160506 GW 02								
	5600432-5	59	2	8.00	2	100	90		3	350		616221 1159283 GW 02								
	5600432-6	59	2	8.00	2	100	90		3	350		616140 1157243 GW 02								
	5600432-7	59	2	8.00	2	100	90		3	350		616255 1154772 GW 02								
	5600432-8	59	2	8.00	2	100	90		3	350		616268 1153614 GW 02								
	5600432-9	59	2	8.00	2	100	90		3	350		616244 1151987 GW 02.								
5600433	16.26		3	6.00	2		41582	AGR		3	0	MCDERMID, H C		56 5600433W	2,8	13	1.5	11	148	0.85
	5600433-1	59	2	10.00	2	800	250		4	1000		616263 1164151 GW 08	EXPIRED							
	5600433-2	59	2	8.00	2	100	90		3	350		615170 1162532 GW 02								
	5600433-3	59	2	8.00	2	100	90		3	350		616959 1162750 GW 02								
5600437	143.70		3	52.90	2		61082	AGRbot		1	1	TRIPLE C RANCH		56 5600437W	08	13	0.8	11	313	0.85
	5600437-1	82	1	8.00	2				4	300		633074 1083665 GW 08								
	5600437-1S	82	1		1			17	3	4000		636196 1082056 SW 99	C-23							
	5600437-2C	82	4		1			17				636028 1082088 SW 99	Culvert							
	5600437-5C	82	4		1			17				635855 1081839 SW 99	Culvert							
	5600437-PC51C	82	4		2							636398 1081800 SW 99	Culvert							
5600439	91.90		3	33.80	2		61082	AGRbot		2	1	HELSETH GROVE SERVICE, INC.		56 5600439W	08	13	0.8	4	200	0.85
	5600439-1	94	1	8.00	2	1300	300		4	750		649500. 1048162 GW 08								
	5600439-2	94	1	8.00	2	1300	300		4	750		649509. 1045637 GW 08								
	5600439-4S	94	1		1			17	1	16000		651229. 1044533 SW 99	C-23							
5600440	117.30		3	43.20	2		61082	AGRbot		2	1	PLATTS GROVES, INC		56 5600440W	08	13	0.8	12	150	0.5
	5600440-1	94	1	8.00	2	1500	400		4	600		649486. 1051898 GW 08	Cap. estim.							
	5600440-2	94	1	8.00	2	1500	400		4	600		649493. 1050181 GW 08	"							
	5600440-1S	94	1		1			10	3	10000		651204. 1051197 SW 99	C-23-McCartyC							
	5600440-1C	94	4		1							651206. 1050793 SW 99	C-23-McCartyC							

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LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)

PERMIT   AN.              ALL  MAX    NO.      DATE  USE SRCNO.    SW                                                   CROP SOIL  RAIN    IRR   IRR
NO.      ALL.             UNT  NO.    UTS CO   ISS.  TYPE   WLS.   PMPS   OWNER             CO  PERMIT NO.  DEV NO.  AQTYPE TYPE  ST      ACRES EFF

LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)

PERMIT   FACILITY     QUAD.  WELL     DPTH             PMP PUM PUMP
NO.      NUMBER       NO. STSDIA.     COD  TD    CD   INT TYP CAP.   MTR?  XPLNR  YPLNR  SRC  AQ  COMMENTS


5600441       266.70       3   21.90  2          70882 MINgw           1 DICKERSON, INC                        56 5600441W                                23
         5600441-1S   73   5          1                -7  3    7000       711563 1146815 SW  99 Dewatering, 2 mon.wells here

5600444        41.40       3   15.20  2          90982 AGRbot          4   1 EGAN, BERNARD A                   56 5600444W          08   13   1.5   11     53 0.5
         5600444-1    72   1    4.00  2  600       500     4     100       673213 1111311 GW  08 Cap. estim.
         5600444-2    72   1    3.00  2  600       500     4     100       672904 1110806 GW  08 "
         5600444-3    72   1    4.00  2  600       500     4     100       672819 1109678 GW  08 "
         5600444-4    72   1    3.00  2  600       500     4     100       673243 1110548 GW  08 "
         5600444-1S   72   1          1                  3   10000       673243 1110548 SW  99 C-82, Loc.guessed

5600449        45.00       3          2          10683 PWSgw           2   0 HARBOUR RIDGE, LTD                   5600449W                               882
         5600449-1    96   1    8.00  2  121        96     3     380      727040. 1050540 GW  02 Primary well. 7 test wells on site.
         5600449-2    96   2    8.00  2  110        80     3               723447. 1047187 GW  02 Backup, 5 days/Mo.

5600450       354.00       3          2          10683 LANbot          2   1 HARBOUR RIDGE, LTD                56 5600450W                               267
         5600450-1    96   1    8.00  2  121        96     3     380       727051 1047622 GW  02 same wells as 449
         5600450-2    96   2    8.00  2  110        80     3     380       723429 1050446 GW  02
         560045015    96   2          1                6         900       723429 1050446 SW  99  C-23,loc.guess

5600461       139.30       3          2          71483 GOL 6       3   3 MEADOWOOD DEVLPMT CORP.               56 5600461W          02   15   0.8   11    122 0.75
         5600461-1    72   1    8.00  2   95        65     2     150      684266. 1145649 GW  02
         5600461-2    72   1    8.00  2   95        65     2     150      684711. 1146762 GW  02
         5600461-3    72   1    8.00  2   95        65     2     150      685701. 1146968 GW  02
         5600461-4    72   1    8.00  2   95        65     2     150      685883. 1146464 GW  02
         5600461-5    72   1    8.00  2   95        65     2     150      684714. 1146156 GW  02
         5600461-6    72   1    8.00  2   95        65     2     150      685438. 1145250 GW  02
         5600461-1S   72   1          1                 20      1600      685438. 1145250 SW  99 ON SITE POND, loc. estimated
         5600461-2S   72   1          1                 20      1600      685438. 1145250 SW  99              "
         5600461-3S   72   1          1                 20       720      685438. 1145250 SW  99              "

5600462        42.90       3     .22  1          71483 PWSGW           3   0 MONTE CARLO C CLUB                   5600462W                               272
         5600462-1    72   2    8.00  2   95        65 42 02     150 Y    686869. 1147478 GW  02 Wells proposed in 1983,coors unobtainable.
         5600462-2    72   2    8.00  2   95        65 42 02     150 Y    684976. 1147874 GW  02 No correspondence in file
         5600462-3    72   2    8.00  2   95        65 42 02     150 Y    683894. 1148172 GW  02 Indicating an existing status as of 2-25-90.

5600472       543.70       3  200.10  2          11284 AGR             3   2 GOUDA LAND CORPORATION            56  5600472W          08   13   1.5   11   1182 0.85
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	5600472-1	70	1	6.00	2	1000	300		4	400	612792.	1132662	GW	08	Pumpage reports required.								
	5600472-2	70	1	6.00	2	1000	300		4	400	614765.	1135596	GW	08	"								
	5600472-3	70	1	6.00	2	1000	300		4	400	614747.	1141957	GW	08	"								
	5600472-1S	70	1		1					2200	612604.	1135186	SW	99									
	5600472-2S	70	1		1					2200	612589.	1140840	SW	99									
5600473	4304.40		3	1584.20	2		20984		AGRbot	31	1	ORANGE AVE CITRUS GROWERS ASSN				56	5600473W	08	13	1.5	11	9358	0.85
	5600473-1	59	1	10.00	2	1020	240		4	850	616221	1164439	GW	08	Cap. estimated								
	5600473-3	59	1	10.00	2	1020	240		4	850	616206	1159147	GW	08	"								
	5600473-4	59	1	10.00	2	1020	240		4	850	618934	1160718	GW	08	"								
	5600473-5	59	1	10.00	2	1140	244		4	850	618729	1154514	GW	08	"								
	5600473-6	60	1	10.00	2	1080	246		4	850	621916	1155257	GW	08	"								
	5600473-7	59	1	10.00	2	1050	270		4	850	616284	1154163	GW	08	"								
	5600473-8	60	1	10.00	2	1050	450		4	850	629343	1152465	GW	08	"								
	5600473-9	60	1	10.00	2	1040	240		4	850	629373	1155723	GW	08	"								
	5600473-10	71	1	10.00	2	1040	250		4	850	626838	1144487	GW	08	"								
	5600473-11	71	1	10.00	2	1040	260		4	850	626863	1141480	GW	08	"								
	5600473-12	71	1	10.00	2	1030	230		4	850	632312	1141258	GW	08	"								
	5600473-13	60	1	10.00	2	1020	255		4	850	632516	1153345	GW	08	"								
	5600473-14	71	1	10.00	2	1030	245		4	850	631785	1134805	GW	08	"								
	5600473-16	71	1	10.00	2	1100	280		4	850	636164	1135187	GW	08	"								
	5600473-17	71	1	8.00	2	1120	260		4	575	635081	1146104	GW	08	"								
	5600473-18	71	1	10.00	2	907	407		4	850	638224	1139268	GW	08	"								
	5600473-19	71	1	8.00	2	950	204		4	575	629727	1135662	GW	08	"								
	5600473-20	71	1	10.00	2	1020	240		4	850	639380	1135328	GW	08	"								
	5600473-21	71	1	6.00	2	950	230		4	250	629013	1138029	GW	08	"								
	5600473-22	71	1	6.00	2	950	230		4	250	629100	1136969	GW	08	"								
	5600473-23	71	1	6.00	2	950	230		4	250	629035	1135873	GW	08	"								
	5600473-24	59	1	12.00	2	1020	240		4	1100	616896	1151704	GW	08	"								
	5600473-25	59	1	10.00	2	1020	270		4	850	617027	1153432	GW	08	"								
	5600473-26	59	1	10.00	2	1020	260		4	850	616165	1156610	GW	08	"								
	5600473-27	59	1	10.00	2	1020	240		4	850	616333	1161888	GW	08	"								
	5600473-28	60	1	8.00	2	1040	270		4	575	624101	1152766	GW	08	"								
	5600473-29	71	1	10.00	2	1020	250		4	850	629197	1132661	GW	08	"								
	5600473-30	71	1	10.00	2	1020	250		4	850	629229	1134323	GW	08	"								
	5600473-31	71	1	10.00	2	1020	240		4	850	632033	1137909	GW	08	"								
	5600473-32	71	1	10.00	2	1020	240		4	850	631808	1146404	GW	08	"								
	5600473-33	71	1	10.00	2	1030	250		4	850	632753	1149952	GW	08	"								
	5600473-1S	60	1		1			16	1	20000	635237	1151432	SW	99	Turnpike Canal,C-25								
5600475	312.70		3	115.10	2		20984		AGR	2	2	OKEECHOBEE LAND CORP.				56	5600475W	08	13	1.5	11	400	0.5
	5600475-1	72	1	6.00	2	?	?		4	240	680699.	1137655	GW	08									
	5600475-2	72	1	4.00	2	?	?		4	55	678356.	1137847	GW	08									
	5600475-1S	72	1		1			5	1	20000	678796.	1140070	SW	99	PERMIT BY NSLWCD, C-25								
	5600475-1S	72	1		1			11	1	20000	678279.	1134918	SW	99	USED FOR DRAINAGE								
5600477	12.10		3		2		31584		LANgw	1	0	WALTON COURT PROPERTY OWNERS				56	5600477W	02	15	0.8	4	11	0.75
	5600477-1	84	2	6.00	1	100	80	12	2	200	733542	1078946	GW	02									
5600482	8.90		3	3.30	2		61484		AGRgw	1	0	ROSE, FRIEDHELM				56	5600482W	08	13	0.8	11	19	0.85
	5600482-1	72	1	6.00	2	1230	640		4	425	696452	1125244	GW	08									

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LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
==========================================================================================
                                                                                                                CROP SOIL  RAIN    IRR    IRR
PERMIT   AN.            ALL  MAX    NO.    DATE  USE SRCNO.    SW                                   CO  PERMIT NO.  DEV NO.  AGTYPE TYPE   ST     ACRES  EFF
NO.      ALL.           UNT  NO.    UTS CO ISS.  TYPE  WLS.   PMPS   OWNER
==========================================================================================

LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
==========================================================================================
                                         PMP PUM PUMP
PERMIT   FACILITY     QUAD.  WELL    DPTH
NO.      NUMBER       NO. STSDIA.    COD  TD   CD  INT TYP CAP.  MTR?  XPLNR  YPLNR  SRC  AQ  COMMENTS
==========================================================================================
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                                                                                          56  5600487W          02                          · 13
5600487          7.30       3              2     91384 PWSgw      2   0 EASTWIND DEVELOPERS, INC.
         5600487-1     73  2     4.00  2  110     95     1      84      721099 1107822 GW  02
         5600487-2     73  2     4.00  2  110     95     1      84      721352 1107819 GW  02
                                                                                          56  5600489W          02   15   .8    11     146  .85
5600489         28.31      02     28.31  2      101184 LANbot     3   3 G.B.F. RESERVE DEV CORP
         5600489-1     83  2     8.00  2  110     10 50  2     300 Y    685413 1091831 GW  02 NEED TO CHECK WELL
         5600489-2     83  2     8.00  2  110     10 50  2     300 Y    685415 1091528 GW  02 CONSTRUCTION REPORTS
         5600489-3     83  2     8.00  2  110     10 50  2     300 Y    685775 1091631 GW  02 FOR THESE WELLS CONSTRUCTION
         5600489-1S    83  2     4.00  2             18  2    2500 Y    687312 1090830 SW  99 SEC.22 T36 R39
         5600489-2S    83  2     6.00  2             18  2    7500 Y    687312 1090830 SW  99 WELL LOCATIONS
         5600489-3S    83  2     6.00  2             18  2    7500 Y    687312 1090830 SW  99 LOCATIONS TENTATIVE
                                                                                          56  5600526W          08   13   0.8   11      36  0.5
5600526         28.10       3     10.40  2      110884 AGRbot     1   3 COONEY TWO GROVE CONDO ASSN                                  13   0.8   11      52  0.85
5600526
         5600526-1     72  1     8.00  2  900    150     4     575      671618 1114331 GW  08 Cap. est.
         5600526-1S    72  1           1                 3    1250      671992 1113603 SW  99          C-71
         5600526-2S    72  1           1                 3    1250      672853 1114552 SW  99 C-58, cap. est.
         5600526-3S    72  1           1                 3    1100      673058 1113422 SW  99          C-71
                                                                                          56  5600536W          2,8  13   1.5   11     100  0.85
5600536         16.93       2     16.93  2       11085 AGRBOT     2   1 HANCOCK, JR., W.R. - TRUSTEE
         5600536-1     71  2        8  2 1000    250          1000      637066 1146992 GW  08 PROPOSED
         5600536-2     71  1        4  2    ?      ?           100      638276 1147420 GW  08 SEE O.A.C. PERMIT
         5600536-P1    71  1           1             23  1    1500      637066 1147742 SW  99 FROM ENLARGED ONSITE DITCHES
                                                                                              5600552W                                    1098
5600552         74.30       3              2      80885 PWSgw     6   0 RESERVE UTILITY CORPORATION
         5600552-1     83  1     6.00  2   80     55     3      45      685953. 1092137 GW  02 5 wells used, 1 is B.U.
         5600552-2     83  1     6.00  2   80     55     3      45      685869. 1090823 GW  02 B.U. well not specified
         5600552-3     83  1     6.00  2   75     55     3      80      685698. 969650. GW  02 Completion reports dated 1988
         5600552-4     83  1     6.00  2   75     55     3      80      686587. 1091534 GW  02 well coords. supplied by permitee
         5600552-5     83  1     6.00  2   75     55     3      60      685239. 1090518 GW  02 stand-by well
         5600552-6     83  1     6.00  2   75     55     3      60      685598. 1090923 GW  02 Back-Up well
                                                                                          56  5600553W          08   13   1.5   11      37  0.85
5600553         17.00       3      6.30  2       91285 AGRbot     1   1 VERO PRODUCERS, INC.
         5600553-1     71  1    10.00  2 1040    350     4     728      649110 1136055 GW  08
         5600553-1S    71  1           1              8  1    6000      649539 1134940 SW  99        C-62
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5600554	92.00		3	33.90	2		91285	AGRgw	10	0 IGLEHART, P.C. + BYRD, W.R.					56	5600554W	02	13	0.8	12	200	0.85
	5600554-1	93	2	10.00	2	80		3	1000			GW	02	From surficial aquifer								
	5600554-2	93	2	10.00	2	80		3	1000			GW	02	Grove not built as of 2/89								
	5600554-3	93	2	10.00	2	80		3	1000			GW	02	Well locations to be determined.								
	5600554-4	93	2	10.00	2	80		3	1000			GW	02									
	5600554-5	93	2	10.00	2	80		3	1000			GW	02									
	5600554-6	93	2	10.00	2	80		3	1000			GW	02									
	5600554-7	93	2	10.00	2	80		3	1000			GW	02									
	5600554-8	93	2	10.00	2	80		3	1000			GW	02									
	5600554-9	93	2	10.00	2	80		3	1000			GW	02									
	5600554-10	93	2	10.00	2	80		3	1000			GW	02									
5600558	1320.50		3	486.00	2		111485	AGRBOT	2	1 METROPOLITAN LIFE INSURANCE CO					56	5600558W	08	13	0.8	4	2871	0.85
	5600558-17	95	1	5.00	2	?	?	4	250	679332	1050143	GW	08	Formerly covered under,Cap. est.								
	5600558-20	83	1	5.00	2	?	?	4	250	668761	1061784	GW	08	permit 5600428W, Cap. estimated.								
	5600558-PC20	95	1		1		12	3	18000	683629	1044559	SW	99	C-23								
5600560	74.52		3	27.50	2		111485	AGR	0	2 BERNARD A. EGAN					56	5600560W		13	0.8	4	194	0.85
	5600560-G3-P1	83	1		1		18.	2	15000	675300.	1073812	SW	99	PEACOCK CANAL								
	5600560-G3-P2	83	1		1		17.	2	15000	677553.	1074428	SW	99	""								
5600561	128.30		3	47.34	2		111485	AGR	0	2 BERNARD A. EGAN					56	5600561W		13	1.5	11	279	0.85
	5600561-G2-P1	83	1		1		12.	2	15000	682046.	1078487	SW	99	C-24, LINE SHAFT PUMPS								
	5600561-G2-P2	83	1		1		11.	2	15000	684201.	1080819	SW	99	""								
5600562	132.00		3	48.70	2		111485	AGR	0	3 BERNARD A. EGAN					56	5600562W		13	0.8	11	287	0.85
	5600562-G1-P1	83	1		1		14.	2	15000	677505.	1085434	SW	99	C-24, LINE SHAFT PUMPS								
	5600562-G1-P2	83	1		1		14.	2	15000	678592.	1084328	SW	99	"								
	5600562-G1-P3	83	1		1		N/A	2	15000	679045.	1083825	SW	99	"								
5600563	1260.00		3				111485	MINSW	0	3 FLA AGGREGATES INTERGROUP,INC.						5600563W					270	
	5600563-1S	95	1		1			1	4400	666716	1045964	SW	99	Sec.36 on permit								
	5600563-2S	95	1		1			1	2500	666937	1045951	SW	99									
	5600563-3S	95	2		1			3	5000	666937	1045951	SW	99	Loc.guess								
	5600563-1C	95	4		1	14	1							C-23								
5600564	197.00		3		2		121285	DEWGW	0	1 GENERAL DEVELOPMENT CORPORATIO					56	5600564W					135	
	5600564-1S		1		1			1	1800					Construction dewatering								
5600568	74.50		3	27.40	2		121285	AGRbot	20	2 EVANS PROPERTIES, INC.					56	5600568W	08	13	1.5	11	162	0.85
5600568																	08	13	1.5	11	368	0.85
5600568																	08	13	1.5	11	118	0.5
5600568																	08	13	1.5	11	697	0.75
	5600568-1	82	1	4.00	2		200	4	150	654308	1103007	GW	08									
	5600568-2	82	1	5.00	2	980	270	4	100	651258	1102915	GW	08									
	5600568-3	82	1	4.00	2		270	4	150	654238	1104143	GW	08									
	5600568-4	82	1	5.00	2		270	4	100	652832	1105180	GW	08									
	5600568-5	82	1	4.00	2		270	4	100	653198	1105093	GW	08									
	5600568-6	82	1	5.00	2	1025	414	4	200	651110	1105278	GW	08									
	5600568-7	71	1	5.00	2	860	270	4	100	650747	1105978	GW	08									
	5600568-8	71	1	5.00	2	860	270	4	75	649494	1106039	GW	08									
	5600568-9	71	1	5.00	2	860	270	4	150	648953	1106841	GW	08									

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LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
==========================================================================================================================
                                                                                                   CROP SOIL  RAIN    IRR   IRR
PERMIT   AN.              ALL  MAX   NO.    DATE  USE SRCNO.    SW
NO.      ALL.             UNT  NO.   UTS CO ISS.  TYPE  WLS.    PMPS  OWNER          CO  PERMIT NO.  DEV NO.  AQTYPE TYPE  ST      ACRES EFF
==========================================================================================================================

LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
==========================================================================================================================
PERMIT   FACILITY     QUAD. WELL     DPTH          PMP PUM PUMP
NO.      NUMBER       NO. STSDIA.    COD  TD   CD  INT TYP CAP.  MTR?  XPLNR   YPLNR  SRC  AQ  COMMENTS
==========================================================================================================================
==========================================================================================================================


         5600568-10   71  1    5.00  2  860   270      4    100      650021 1106984 GW  08
         5600568-11   71  1    5.00  2  860   270      4     90      651804 1106921 GW  08
         5600568-12   71  1    5.00  2  860   270      4     90      653904 1106678 GW  08
         5600568-13   71  1    4.00  2  860   270      4     90      657299 1106058 GW  08
         5600568-14   71  1    4.00  2  860   280      4     90      655548 1106040 GW  08
         5600568-15   71  1    4.00  2  860   280      4     90      654642 1106977 GW  08
         5600568-16   82  1    4.00  2  930            4     85      648476 1103384 GW  08
         5600568-17   82  1    5.00  2  972   385      4    125      648903 1105151 GW  08
         5600568-18   82  1    4.00  2 1050            4    100      656422 1103733 GW  08
         5600568-19   82  1    5.00  2  930   292      4    150      656548 1105290 GW  08
         5600568-20   71  1    5.00  2  800   280      4    100      660937 1106104 GW  08
         5600568-1S   71  1          1             14  1  30000      647799 1105990 SW  99      C-24
         5600568-1C   71  4          1             10                647615 1105765 SW       C-24,Culvert
5600572        16.60      3    6.10  2      10986 AGRgw      2   0 MCALLISTER, DONALD N                   56  5600572W       08   13   1.5    11      36 0.85
         5600572-1    61  1    5.00  2  700   180      4    210      680516 1167447 GW  08
         5600572-2    61  1   10.00  2 1000   363      4   1000      681564 1167414 GW  08

5600574        64.80      3   23.80  2      21386 AGRbot     4   2 EDENTOWN CO. NV & WT JERKINS           56  5600574W       08   13   0.8    11     141 0.85
         5600574-1    71  1    6.00  2  900   250      4    300      655860 1121801 GW  08 Wells for freeze
         5600574-2    71  1    6.00  2  900   250      4    400      655438 1122193 GW  08 protection only
         5600574-3    71  1    4.00  2  900   250      4     75      652772 1122197 GW  08
         5600574-4    71  1    8.00  2 1080   259      4    900      653837 1121827 GW  08
         5600574-1S   71  1          1             15  1   1800      654102 1121824 SW  99      C-67
         5600574-2S   71  1          1             15  1   1800      656057 1121745 SW  99      C-67

5600579       244.00      3          2      61286 INDgw      4   0 TREESWEET PRODUCTS COMPANY, IN        56  5600579W       02   13    .8    11       1 0.5
         5600579-1    73  1   10.00  1   70    60 50  2    200      712295 1114725 GW  02
         5600579-2    73  1   10.00  1   70    60 55  2    200      712520 1114621 GW  02
         5600579-3    73  1    6.00  1   70    60 55  2    250      712601 1114260 GW  02
         5600579-4    73  1   10.00  1   70    60 40  2    150      712224 1114167 GW  02

5600580      1280.00      3          2      61286 MINgw      0   1 ADAMS RANCH, INC.                      56  5600580W                                   219
         5600580-1        2          2            UND 3   7000                       SW       Rock pits

5600581       130.70      3   48.10  2      71086 AGRbot     2   1 CAMPBELL, JR., CHARLES M.              56  5600581W       08   13   1.5    11     167 0.5
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	5600581-1		72	1	5.00	2	1000	260	4	200	671129 1107401	GW	08									
	5600581-2		72	1	5.00	2	1000	260	4	200	671149 1106212	GW	08									
	5600581-1s		72	1		1		13	1	22000	672691 1107994	SW	99	C-83								
5600582		56.30		3	20.70	2		71086 AGRbot		2	1 CAMPBELL, JR., CHAS M											
	5600582-1		72	1	5.00	2	900	250	4	200	664293 1113291	GW	08		56	5600582W	08	13	1.5	11	72	0.5
	5600582-2		72	1	4.00	2	900	250	4	100	664330 1112677	GW	08									
	5600582-1s		72	1		1		10	1	4000	664542 1113329	SW	99	C-80								
5600583		56.30		3	20.70	2		71086 AGRbot		1	1 CAMPBELL, JOHN											
	5600583-1		72	1	5.00	2	1050	250	4	200	664531 1110378	GW	08		56	5600583W	08	13	1.5	11	72	0.5
	5600583-1s		72	1		1		13	1	10000	663127 1110167	SW	99	C-71								
5600584		29.70		3	10.90	2		71086 AGRbot		1	1 B & L GROVES											
	5600584-1		72	1	5.00	2	900	202	4	217	662337 1115488	GW	08		56	5600584W	08	13	0.8	11	38	0.5
	5600584-1s		72	1		1		13	1	10000	662453 1116031	SW	99	C-69								
5600585		79.00		3	29.10	2		71086 AGRbot		3	1 EGAN, BERNARD A											
	5600585-1		72	1	4.00	2	950	200	4	125	668363 1117016	GW	08		56	5600585W	08	13	1.5	11	101	0.5
	5600585-2		72	1	5.00	2	1000	250	4	200	668414 1116158	GW	08									
	5600585-3		72	1	5.00	2	1000	250	4	200	670395 1116148	GW	08									
	5600585-1s		72	1		1		13	1	16000	670756 1116688	SW	99	C-55								
5600586		451.60		3	166.20	2		71086 AGRbot		11	6 EGAN, BERNARD A.											
	5600586-1		72	1	5.00	2	1000	250	4	125	668332 1111067	GW	08		56	5600586W	08	13	1.5	11	578	0.5
	5600586-2		72	1	5.00	2	1000	250	4	200	667033 1109697	GW	08									
	5600586-3		72	1	6.00	2	1100	250	4	320	665784 1109676	GW	08									
	5600586-4		72	1	5.00	2	1000	250	4	200	672377 1109831	GW	08									
	5600586-5		72	1	5.00	2	1000	250	4	180	670316 1111029	GW	08									
	5600586-6		72	1	6.00	2	1100	250	4	310	672361 1110815	GW	08									
	5600586-7		72	1	5.00	2	1000	250	4	180	670292 1112101	GW	08									
	5600586-8		72	1	5.00	2	1000	250	4	180	671415 1112286	GW	08									
	5600586-9		72	1	3.00	2	900	220	4	60	673052 1113096	GW	08									
	5600586-10		72	1	5.00	2	1000	250	4	200	674848 1108407	GW	08									
	5600586-11		72	1	5.00	2	1000	250	4	200	669710 1113233	GW	08									
	5600586-1s		72	1		1		13	1	12000	671146 1107871	SW	99	C-83								
	5600586-2s		72	1		1		13	1	10000	672376 1113361	SW	99	C-71								
	5600586-3s		72	1		1		13	1	16000	669593 1111056	SW	99	C-82, Loc. est.								
	5600586-4s		72	1		1		13	1	10000	668562 1113277	SW	99	C-71								
	5600586-5s		72	1		1		13	1	8000	669593 1111056	SW	99	C-82								
	5600586-6s		72	1		1		13	1	10000	673258 1108424	SW	99	C-83								
5600587		111.80		3	41.10	2		71086 AGRbot		4	1 CAMPBELL, JOHN D.											
	5600587-1		72	1	5.00	2	1100	250	4	200	668897 1115821	GW	08		56	5600587W	08	13	1.5	11	143	0.5
	5600587-2		72	1	6.00	2	1000	230	4	325	670739 1114839	GW	08									
	5600587-3		72	1	5.00	2	1050	230	4	200	668529 1113839	GW	08									
	5600587-4		72	1	5.00	2	1100	250	4	200	669382 1113661	GW	08									
	5600587-1s		72	1		1		13	1	10000	668896 1113621	SW	99	C-58								
5600588		31.30		3	11.50	2		71086 AGRbot		1	1 BEALE JR., JOSEPH E.											
	5600588-1		72	1	5.00	2	900	240	4	180	670880 1110736	GW	08		56	5600588W	08	13	1.5	11	40	0.5
	5600588-1s		72	1		1		13	1	10000	669784 1110740	SW	99	NSLRWND Canal								

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LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
PERMIT  AN.          ALL MAX   NO.       DATE  USE SRCNO.  SW
NO.     ALL.         UNT NO.   UTS CO    ISS.  TYPE  WLS.  PMPS  OWNER                                                    CROP SOIL RAIN   IRR   IRR
                                                                                          CO  PERMIT NO.  DEV NO.  AOTYPE TYPE  ST    ACRES  EFF
LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
PERMIT  FACILITY     QUAD. WELL    DPTH           PMP PUM PUMP
NO.     NUMBER       NO. STSDIA.   COD  TD   CD   INT TYP CAP.  MTR?  XPLNR  YPLNR  SRC  AQ  COMMENTS

5600589      233.00       3   85.80  2        71086 AGRbot   4   2 O.L.C., INC.                        56  5600589W       08  13  1.5  11   298  0.5
     5600589-1     71  1    6.00  2  900    250      4     170      658479 1118777 GW  08
     5600589-2     71  1    6.00  2  900    250      4     170      658459 1117516 GW  08
     5600589-3     71  1    6.00  2  900    250      4     170      661415 1118295 GW  08
     5600589-4     71  1    6.00  2  900    250      4     170      661955 1117827 GW  08
     5600589-1S    71  1            1            13.  1  10000      658038 1118719 SW  99 NSLRWND CANALS
     5600589-2S    71  1            1            13.  1  10000      661864 1118746 SW  99                  "
5600590      179.80       3   66.20  2        71086 AGRbot   7   1 EGAN, FICKETT & COMPANY             56  5600590W       08  13  1.5  11   230  0.5
     5600590-1     83  1    5.00  2 1000    250      4     200      668115 1097087 GW  08
     5600590-2     83  1    5.00  2 1000    250      4     200      665966 1096205 GW  08
     5600590-3     83  1    4.00  2  900    250      4     125      666900 1096362 GW  08
     5600590-4     83  1    5.00  2 1000    250      4     175      665849 1094953 GW  08
     5600590-5     83  1    4.00  2  950    250      4     125      666354 1094988 GW  08
     5600590-6     83  1    4.00  2  900    250      4     125      666912 1094963 GW  08
     5600590-7     83  1    4.00  2  950    300      4     125      667578 1097786 GW  08
     5600590-1S    83  1            1            14   1  25000      668097 1097412 SW  99       C-85
5600591      174.40       3   64.20  2        71086 AGRbot   5   1 CAMPBELL,JR.,CHARLES M &            56  5600591W       08  13  1.5  11   223  0.5
     5600591-1     83  1    4.00  2  900    200      4     100      663517 1098120 GW  08
     5600591-2     83  1    5.00  2 1000    230      4     200      665154 1097355 GW  08
     5600591-3     83  1    5.00  2 1000    230      4     200      663048 1096008 GW  08
     5600591-4     83  1    6.00  2 1100    250      4     200      665117 1096040 GW  08
     5600591-5     83  1    4.00  2  900    200      4     125      663715 1094953 GW  08
     5600591-1S    83  1            1            13   1  25000      663098 1098555 SW  99       C-80
5600596      391.00       3  143.90  2        91186 AGRbot   4   6 GREENE, JR., B.E.                   56  5600596W       08  13  1.5  11   850 0.85
     5600596-1     60  2   10.00  2  900    300      4    1000                      GW  08 NOT INSTALLED YET
     5600596-2     60  2   10.00  2  900    300      4    1000                      GW  08 AS OF 1-90
     5600596-3     60  2   10.00  2  900    300      4    1000                      GW  08 ""
     5600596-4     60  2   10.00  2  900    300      4    1000                      GW  08 ""
     5600596-1S    60  2            1            18   1    600                      SW  99  On site ditch
     5600596-2S    60  2            1            18   1    600                      SW  99 NOT INSTALLED YET
     5600596-3S    60  2            1            18   1    600                      SW  99 AS OF 1-90
     5600596-4S    60  2            1            18   1    600                      SW  99 ""
     5600596-5S    60  2            1            18   1    600                      SW  99 ""
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          5600596-6S   60  2                1            18  1    600                SW  99 **
5600613           68.50      3   11.20  2      31287 LANSW      0  2 THOMAS J WHITE DEV CORPORATION         56  5600613W
5600613
          5600613-1S   83  1    11.60  1             15  1    250    690127. 1086703 SW  99  I-95 Borrow C                        15   0.8   11    60 0.75
          5600613-2S   83  1           1             16  1    250    693822. 1087427 SW  99   On-site lake                        20   0.8   11    60 0.75
5600614          289.00      3    1.20  1      31287 PWSGW     12  0 ST LUCIE WEST UTILITIES, INC          56  5600614W
          5600614-1    83  1    8.00  2   75    42 45  2    175  Y 698262. 1083208 GW  02 Wells 1-6 have                                    4616
          5600614-2    83  1    8.00  2   65    46 45  2    175  Y 698622. 1083310 GW  02 well completion reports
          5600614-3    83  1    8.00  2   70    41 45  2    175  Y 698982. 1083514 GW  02 in file.
          5600614-4    83  1    8.00  2   68    42 45  2    175  Y 699342. 1083718 GW  02
          5600614-5    83  1    8.00  2   65    40 45  2    175  Y 698624. 1083008 GW  02
          5600614-6    83  1    8.00  2   60    40 45  2    175  Y 698894. 1083110 GW  02
          5600614-7    83  2    8.00  2   70    30 45  2    175  Y 699714. 1081397 GW  02 The rest of wells have
          5600614-8    83  2    8.00  2   70    30 45  2    175  Y 700533. 1079988 GW  02 no completion reports
          5600614-9    83  2    8.00  2   70    30 45  2    175  Y 701613. 1080397 GW  02 and are assumed here
          5600614-10   83  2    8.00  2   70    30 45  2    175  Y 701981. 1078985 GW  02 non existing.
          5600614-11   83  2    8.00  2   70    30 45  2    175  Y 701887. 1079792 GW  02
          5600614-12   83  2    8.00  2   70    30 45  2    175  Y 702868. 1082120 GW  02 Well 12 not on site map
5600620           22.30      3    3.80  2      51487 LANgw      3  0 MAX AMBACH & SONS & COMPANY          56  5600620W        02  15  0.8   11    20 0.75
          5600620-1    73  1    8.00  1  100    70  3  2    200      714426 1126164 GW  02
          5600620-2    73  1    8.00  1   90    60  3  2    200      713514 1126367 GW  02
          5600620-3    73  2    8.00  1  100    70  3  2    200      713983 1126910 GW  02
5600621           67.40      3    0.00  2      51487 GOLSW           SAVANNA CLUB CORP.
          5600621-P1   84  1           1                  3  1300     730320 1085000 SW  99 ON SITE LAKES, 3 PUMPS IN SERIES.  56  5600621W   15  0.8   4    59 0.75
5600622           17.10      3    6.30  2      51487 AGRgw      2  1 LINDSEY, RALPH J - PARTNER           56  5600622W        08  13  1.5   11    37 0.85
          5600622-1    83  4    6.00  2  800   340      4    250      675005 1098589 GW  08 Cap. estim.
          5600622-2    83  4    5.00  2  800   340      4    250      676176 1098584 GW  08       "
          5600622-1S   83  2           1             14  3    758      676176 1098584 SW  99 Loc. estimated.
5600624            6.21      3          2      61187 PWSGW      5  0 LAKE MANOR PROPERTIES, INC.          56  5600624W        02                        13
          5600624-1    85  2    4.00  2  110   105      2    100      747142 1066651 GW  02
          5600624-2    85  2    4.00  2  110   105      2    100      747249 1066436 GW  02
          5600624-1E   85  1    2.00  2   27       27   2     50      747442 1066651 GW  02 Existing wells will be abandoned, Cap. estim.
          5600624-2E   85  1    2.00  2   27       27   2     50      747462 1066651 GW  02 upon completion of
          5600624-3E   85  1    2.00  2   27       27   2     50      747482 1066651 GW  02 proposed wells
5600627           92.20      3          2      70987 PWSgw      5  0 WYNNE BUILDING CORPORATION           56  5600627W        02                        435
          5600627-1    61  1    8.00  2   95    68      2    150      673428 1165715 GW  02
          5600627-2    61  1    8.00  2   83    75      2    150      670644 1169599 GW  02
          5600627-3    61  1    8.00  2   80    65      2    150      673444 1166080 GW  02
          5600627-4    61  1    8.00  2   80    65      2    150      672337 1168471 GW  02
5600628           34.50      3   12.70  2      70987 AGRgw      1  1 SUN COAST GROVE, INC.                56  5600628W        08  13  0.8   11    75 0.85
          5600628-1    72  4    6.00  2  840   300      4    220      677610 1116437 GW  08
5600630           13.80      3    5.10  2      81387 AGRgw      1  0 SPYKE, PETER D                       56  5600630W        08  13  0.8   11    30 0.85
          5600630-1    72  4    5.00  2  800   250      1    300      674040 1112481 GW  08
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LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
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PERMIT   AN.              ALL  MAX      NO.    DATE  USE SRCNO.   SW                                                              CROP SOIL  RAIN    IRR   IRR
NO.      ALL.             UNT  NO.      UTS CO ISS.  TYPE  WLS.   PMPS   OWNER                       CO  PERMIT NO.  DEV NO.  AGTYPE TYPE   ST    ACRES  EFF
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LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
==========================================================================================================================
PERMIT   FACILITY      QUAD. WELL       DPTH          PMP PUM PUMP
NO.      NUMBER        NO. STSDIA.      COD   TD   CD  INT TYP CAP.  MTR?  XPLNR  YPLNR  SRC  AQ  COMMENTS
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5600633          46.00     3    7.20  2        91087 AGR        4   0 MICIVER, L.L. & NEILL, R.V.          56  5600633W          2,8  13   .8    11      100 0.85
         5600633-1     82  1    6.00  2   60      25      3   100     658309. 1081214 GW  02 TO BE REPLACED BY 8'WELL, CAP EST.
         5600633-2     82  1   12.00  2 1100     400      4  1100     657679. 1080808 GW  08 FOR FREEZE PROTECTION ONLY,**
         5600633-3     82  1   12.00  2 1100     400      4  1100     657592. 1080000 GW  08 FOR FREEZE PROTECTION ONLY, **
         5600633-4     82  2    8.00  2   75      45      3   200     659031. 1081217 GW  02 TO REPLACE EXISTING 6' WELL, **

5600637         432.70     3   73.60  2        91087 GOLgw     14   0 ST LUCIE WEST UTILITIES, INC.        56  5600637W          02   15  0.8    11      379 0.75
         5600637-1     83  2    8.00  1   70      30 -45               698371 1082937 GW  02  Proposed wells
         5600637-2     83  2    8.00  1   70      30 -45               697587 1082628 GW  02 to be replaced by
         5600637-3     83  2    8.00  1   70      30 -45               696263 1082709 GW  02 by reclaimed water system
         5600637-4     83  2    8.00  1   70      30 -45               699769 1081890 GW  02
         5600637-5     83  2    8.00  1   70      30 -45               700583 1081879 GW  02
         5600637-6     83  2    8.00  1   70      30 -45               701786 1082632 GW  02
         5600637-7     83  2    8.00  1   70      30 -45               696871 1080118 GW  02
         5600637-8     83  2    8.00  1   70      30 -45               696760 1079134 GW  02
         5600637-9     83  2    8.00  1   70      30 -45               697559 1078898 GW  02
         5600637-10    83  2    8.00  1   70      30 -45               700238 1082519 GW  02
         5600637-11    83  2    8.00  1   70      30 -45               701386 1083155 GW  02
         5600637-12    83  2    8.00  1   70      30 -45               701025 1083807 GW  02
         5600637-13    83  2    8.00  1   70      30 -45               695887 1079518 GW  02
         5600637-14    83  2    8.00  1   70      30 -45               696552 1078311 GW  02

5600639          25.20     3    4.20  2       100887 AGRgw      1   2 PIKE, RICHARD S                      56  5600639W          08   13  0.8    11       88  0.5
         5600639-1     71  1   12.00  1  900     400      4            648660 1136339 GW  08 Frost Protectionn NEW well
         5600639-1S    71  1          1               14  1 10000      648567 1134973 SW  99      Internal
         5600639-1C    71  4          1               14               648516 1136073 SW  99    C-62,culvert

5600640         229.90     3   84.60  2       100887 AGRbot     1   2 BROTHERS FOUR                        56  5600640W          08   13  1.5    11      294  0.5
         5600640-1     71  1    8.00  2  700     400      4   300      643720 1120148 GW  08
         5600640-1S    71  1          1               14  3 15000      646832 1119771 SW  99         C-24
         5600640-1C    71  4          1               14                              SW        C-24, Culvert

5600641         570.80     3  210.10  2       100887 AGRbot     3   2 CAMPBELL, CHARLES                    56  5600641W          08   13  0.8    11      730  0.5
         5600641-1     82  1   10.00  2 1000     600      4   850      638863 1095958 GW  08 Cap. est.
         5600641-2     82  1    8.00  2  900     340      4   575      639062 1100060 GW  08         "
         5600641-3     82  1    4.00  2  760     200      4   100      640181 1097693 GW  08         "
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	5600641-1S	82	1		1		14	3	25000	638889 1092394 SW 99	C-23								
	5600641-2S	82	1		1		14	3	25000	638900 1092591 SW 99	C-23								
5600644	56.30		3	0.15	1		111287 LIVgw		2	0 RAY MELEAT, INC									
	5600644-1	81	1	4.00	2	70	50	1	88	605706 1078714 GW 02	Dairy farm	56	5600644W	02				700	
	5600644-2	81	1	4.00	2	70	50	2	80	605486 1078665 GW 02									
5600646	20.20		3	7.40	2		121087 AGRgw		1	0 CONTOUR LAND CORPORATION									
	5600646-1	82	2	10.00	2	1000	400	4	850	655118 1100914 GW 08 Cap. est.		56	5600646W	08	13	0.8	11	44	0.85
5600647	25.00		3	9.20	2		121087 AGRsw		0	2 LIER GROVES, INC.									
	5600647-1S	71	1		1		14	1	12000	656308 1129659 SW 99	C-64	56	5600647W		13	1.5	11	32	0.5
	5600647-1C	71	4		1		14			SW	C-64, Culvert								
5600649	56.30		3	20.70	2		10788 AGRbot		1	1 DUNN BROTHERS, INC.									
	5600649-1	83	1	6.00	2	900	270	4		669337 1098786 GW 08		56	5600649W	08	13	1.5	11	72	0.5
	5600649-1S	83	1		1		13	3	7500	668413 1098408 SW 99	C-85								
5600650	13.30		3	4.90	2		10788 AGRgw		1	0 DUNN BROTHERS, INC.									
	5600650-1	72	1	8.00	2	800	240	4	575	678146 1106025 GW 08 Cap. est.		56	5600650W	08	13	1.5	12	17	0.5
5600651	26.60		3	9.80	2		10788 AGRbot		1	1 DUNN BROTHERS, INC.									
	5600651-1	71	1	6.00	2	940	300	4		649273 1129603 GW 08		56	5600651W	08	13	1.5	12	34	0.5
	5600651-1S	71	1		1		11	3	8000	649675 1129548 SW 99	C-64								
5600652	88.80		3	32.70	2		10788 AGRgw		1	0 BELAIR GROVES JOINT VENTURE									
	5600652-1	71	1	10.00	2	1026	298	4	850	647600 1139182 GW 08 Cap. est.		56	5600652W	08	13	0.8	11	193	0.85
5600658	144.00		3		2		10788 AGRBW		0	1 N ST LUCIE RIVER W.C. DISTRICT		56	5600658W						
	5600658-1	71	1					1	50000	673306 1140526 SW 99 Freeze protection use only. Alloc.estim.2 events/yr								42900	
5600662	105.60		3	38.80	2		31088 AGRbot		3	1 ST. LUCIE CORPORATION									
	5600662-1	71	1	6.00	2	880	260	4	250	657973 1129889 GW 08 Cap. estim.		56	5600662W	08	13	1.5	11	135	0.5
	5600662-2	71	1	4.00	2	800	260	4	100	658974 1129595 GW 08	"								
	5600662-3	71	1	6.00	2	870	260	4	250	659014 1130996 GW 08	"								
	5600662-1S	71	1		1		11	3	10000	661009 1129878 SW 99	C-64								
5600663	8.30		3	3.00	2		31088 AGRgw		1	0 DUNN, EARNEST									
	5600663-1W	83	1	4.00	2	800	260	4	182	677362 1098899 GW 08		56	5600663W	08	13	1.5	11	18	0.85
5600665	39.10		3	14.40	2		31088 AGRbot		1	1 REBS, INC.									
	5600665-1	83	1	5.00	2	800	240	4	250	682653. 1104037 GW 08 Cap. est.		56	5600665W	08	13	1.5	11	50	0.5
	5600665-1S	83	1		1		10	3	5000	681391. 1103830 SW 99	C-85								
5600666	25.00		3	9.20	2		31088 AGRBOT		1	1 GYP 87 LIMITED									
	5600666-1	83	1	4.00	2	815	300	4	230	681122. 1143817 GW 08		56	5600666W	08	13	0.8	11	32	0.5
	5600666-1S	83	1		1				10000	680581. 1143814 SW 99 CANAL 14, 2WAY PUMP									
5600667	28.90		3	10.70	2		31088 AGRbot		1	1 GOTTARDO, VIRGIL									
	5600667-1	83	1	6.00	2	820	240	4	250	669672 1099871 GW 08 Cap. est.		56	5600667W	08	13	1.5	11	37	0.5
	5600667-1S	83	1		1		11	3	8000	668320 1099860 SW 99	C-85								

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LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forecasted Agricultural Demand for Each Permit)
PERMIT   AN.              ALL  MAX    NO.      DATE  USE SRCNO.    SW                                                    CROP SOIL  RAIN    IRR    IRR
NO.      ALL.             UNT  NO.    UTS CO   ISS.  TYPE   WLS.   PMPS   OWNER                   CO  PERMIT NO.  DEV NO.  AGTYPE TYPE  ST     ACRES  EFF

LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
PERMIT   FACILITY     QUAD.  WELL      DPTH            PMP PUM PUMP
NO.      NUMBER       NO. STSDIA.      COD   TD    CD  INT TYP CAP.  MTR?  XPLNR  YPLNR  SRC  AQ  COMMENTS

5600668        185.40       3   68.20  2        31088 AGRbot    10   5 W LINE CITRUS GROWERS ASSN           56  5600668W          2,8  13   1.5    12     403 0.85
         5600668-1     70   1    5.00  2  600     300     4     50      607400 1143803 GW  08
         5600668-2     70   2   12.00  2  900     350     4   1200      607446 1144755 GW  08
         5600668-3     70   2   10.00  2  100      50     2    200      607175 1144565 GW  02
         5600668-4     70   2   10.00  2  100      50     2    200      608499 1144552 GW  02
         5600668-5     70   2   10.00  2  100      50     2    200      607108 1142140 GW  02
         5600668-6     70   2   10.00  2  100      50     2    200      608666 1142124 GW  02
         5600668-7     70   2   10.00  2  100      50     2    200      607225 1139884 GW  02
         5600668-8     70   2   10.00  2  100      50     2    200      608582 1139840 GW  02
         5600668-9     70   2   10.00  2  100      50     2    200      607140 1137993 GW  02
         5600668-10    70   2   10.00  2  100      50     2    200      608938 1138095 GW  02
         5600668-1S    70   2          1              20  1    600      607343 1142450 SW  99  On site canal
         5600668-2S    70   2          1              20  1    600      608785 1142426 SW  99  On site canal
         5600668-3S    70   2          1              20  1    600      607336 1140190 SW  99  On site canal
         5600668-4S    70   2          1              20  1    600      608910 1140131 SW  99  On site canal
         5600668-5S    70   2          1              20  1    600      608373 1144828 SW  99  On site canal

5600669         19.80       3    7.30  2        31088 AGRbot     3   1 HAYNES, CHRISTINE                    56  5600669W          08   13   0.8    11      32  0.5
         5600669-1     72   1    5.00  2  920     300     4    325      695996 1145398 GW  08
         5600669-2     72   1    6.00  2  960     320     4    520      695158 1145143 GW  08
         5600669-3     72   1    3.00  2  840     280     4    105      695135 1144521 GW  08
         5600669-S     72   1          1              10  1  10000      695135 1144521 SW  99 C-3, Loc. estim.

5600676        118.70       3   43.70  2        61688 AGRsw      0   1 POPPELL, L. RALPH                    56  5600676W               13   0.8    11     152  0.5
         5600676-1S    72   1          1                  3  10000      668352 1140082 SW  99        C-25
         5600676-C     72   4          1                                               SW            C-25

5600682         10.50       3    1.60  2       100588 LANbot     1   1 K. HOVNANIAN AT THE PARK ST          56  5600682W          02   15    .8     4       9 0.75
         5600682-1     84   2    8.00  1  126     107 45  2    250      721290 1066195 GW  02
         5600682-1S    84   2          1              -2. 2    200      721391 1066192 SW  99   On site lake

5600683       1343.50       3  494.50  2       100688 AGRbot    13   9 CRITTENDEN, E.N, LANGLEY, A.E,       56  5600683W          08   13   1.5    11    2921 0.85
         5600683-1     70   1    8.00  2 1200     400     4    900      617906 1146477 GW  08
         5600683-2     70   1    8.00  2 1200     400     4    900      617606 1146677 GW  08 Loc.guessed
         5600683-3     71   1    8.00  2 1200     400     4    900      622356 1150456 GW  08
         5600683-4     70   1    6.00  2  800     300     4    400      617746 1145657 GW  08
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	5600683-5	70	1	6.00	2	800	300		4	400		620575	1133345	GW	08									
	5600683-6	70	1	8.00	2	1200	400		4	900		620612	1140852	GW	08									
	5600683-7	70	1	6.00	2	800	300		4	400		617467	1138361	GW	08									
	5600683-8	70	1	6.00	2	800	300		4	400		615534	1137310	GW	08									
	5600683-13	70	1	8.00	2	1200	400		4	900		616187	1134074	GW	08									
	5600683-14	70	1	8.00	2	1200	400		4	900		618010	1133161	GW	08									
	5600683-15	71	1	8.00	2	800	300		4	600		623624	1143743	GW	08									
	5600683-16	70	1	8.00	2	800	300		4	600		615919	1143707	GW	08									
	5600683-17	70	1	6.00	2	800	300		4	400		615498	1141553	GW	08									
	5600683-1S	70	2		1			19	2	7000		620832	1134671	SW	99	Internal canals								
	5600683-2S	71	2		1			19	2	7000		622575	1137468	SW	99	Internal canals								
	5600683-3S	70	2		1			19	2	7000		620732	1148050	SW	99	Internal canals								
	5600683-4S		2		1			19	2	7000		620732	1148050	SW	99	Internal canals,Loc. guessed								
	5600683-5S	71	2		1			19	2	7000		622244	1144963	SW	99	Internal canals								
	5600683-6S	70	2		1			19	2	7000		621225	1139001	SW	99	Internal canals								
	5600683-7S	71	2		1			19	2	7000		623506	1138695	SW	99	Internal canals								
	5600683-8S		2		1			19	2	7000		623506	1138695	SW	99	Internal canals,Loc. guessed								
	5600683-9S		2		1			19	2	7000		623506	1138695	SW	99	Internal canals,Loc. guessed								
5600685	358.80		2	358.80	2		100688	AGRbot		6	7	GAZAYERLI, DR. M. M.					56	5600685W	08	13	.8	11	780	0.85
	5600685-1	70	1	5.00	2	1000	300		4	300		611673.	1146291	GW	08									
	5600685-2	70	2	12.00	2	1500	350		4	800		610969.	1140129	GW	08									
	5600685-3	70	1	5.00	2	1000	300		4	300		610342.	1138916	GW	08									
	5600685-4	70	1	6.00	2	1000	300		4	400		610179.	1132654	GW	08									
	5600685-5	70	2	12.00	2	1500	350		4	800		610969.	1140331	GW	08									
	5600685-6	70	2	12.00	2	1500	350		4	800		611075.	1134374	GW	08									
	5600685-AS	70	2		1			20	1	2000		611075.	1134374	SW	99	NOT ON SITE MAP,Loc. Guessed								
	5600685-BS	70	1		1			20	1	3000		611075.	1134374	SW	99	CANNOT MAP, Loc. estim.								
	5600685-CS	70	2		1			20	1	2500		611075.	1134374	SW	99	"								
	5600685-DS	70	2		1			20	1	2800		611075.	1134374	SW	99	"								
	5600685-P1S	70	1		1			16	1	25000		609872.	1146185	SW	99									
	5600685-P2S	70	2		1			16	1	20000		609872.	1146185	SW	99									
	5600685-P3S	70	2		1			16	1	20000		609872.	1146185	SW	99									
	5600685-1C	70	2		1			22						SW	99									
	5600685-2C	70	2		1			22						SW	99									
5600690	55.60		3	20.40	2		120888	AGR		6	3	INTERSTATE CITRUS PART, LTD					56	5600690W	08	15	0.8	11	121	0.85
	5600690-1	72	2	12.00	2	1000	500		4	1000		688244.	1142335	GW	08	PROPOSED								
	5600690-2	72	2	12.00	2	1000	500		4	1000		687432.	1142634	GW	08									
	5600690-3	72	2	12.00	2	1000	500		4	1000		687436.	1141826	GW	08									
	5600690-4	72	2	12.00	2	1000	500		4	1000		686719.	1141015	GW	08									
	5600690-5	72	1	4.00	2	900	450		4	350		686895.	1141824	GW	08	EXISTING								
	5600690-A	72	2		1							686893.	1142227	SW	99									
	5600690-B	72	2		1							686900.	1140814	SW	99									
	5600690-C	72	2		1							688332.	1142840	SW	99									
5600719	105.50		3	38.80			30989	AGRbot		1	1	BECKER HOLDING CORPORATION					56	5600719W	08	13	1.5	11	135	0.5
	5600719-1	72	1	6.00					4	300		664659	1105889	GW	08									
	5600719-1S	72							1	10000		663156	1107212	SW		Header Canal								
5600721	0.30						21489	PWSgw		1	0	NEW LIGHT ELECTRIC					56	5600721W	02					
	5600721-1	83	2	2.00		60	50		3	25		691766.	1064394	GW	02	G.P.								

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LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
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                                                                                                     CROP SOIL  RAIN    IRR   IRR
PERMIT   AN.              ALL  MAX   NO.    DATE  USE SRCNO.   SW
NO.      ALL.             UNT  NO.   UTS CO ISS.  TYPE  WLS.   PMPS   OWNER                       CO PERMIT NO. DEV NO. AQTYPE TYPE  ST      ACRES EFF
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LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
=========================================================================
PERMIT   FACILITY    QUAD.  WELL      DPTH          PMP PUM PUMP
NO.      NUMBER      NO. STSDIA.      COD  TD   CD  INT TYP CAP.  MTR?  XPLNR  YPLNR  SRC  AQ  COMMENTS
==================================================================================================================================


5600722          0.70                             21489 PWSgw      1   0 MIDWAY MANORS, INC.          56  5600722W        02
         5600722-1     84  2    4.00       60      50    3      30      706481 1103819 GW  02

5600723         32.20       3                     21489 AGRgw      1   0 KUTA, GEORGE S.              56  5600723W        02   13   1.5   11        7 0.85
         5600723-1     72  1    6.00       75      75 45  2    200      693200 1150683 GW  02

5600727          0.50                             22489 PWSgw      1   0 MERCEDES HOMES, INC.         56  5600727W        02   15
         5600727-1     84  2    2.00       46      32 32  1     35      719627. 1069079 GW  02 Temporary PWS,GP

5600731         13.10       3                     41389 INDgw      2   0 EXXON COMPANY USA            56  5600731W        02                           2
         5600731-1     83  1    6.00  1    25       5 24  2      5      724493 1064273 GW  02
         5600731-2     83  2    6.00  1    30       5 29  2     10      724638 1064266 GW  02

5600738          9.90       3   4.30              41389 AGRgw      1   0 ROCHESTER, HERBERT           56  5600738W        08   60   1.5   11       15  0.5
         5600738-1     61  1    5.00      750     210     4    200      699714 1152131 GW  08
5600739          0.30                             40689 PWSgw      1   0 M.J. FERRITER CONSTRUCTION   56  5600739W        02
         5600739-1     83  2    2.00       60      50     3     25      691766. 1064394 GW  02       G.P.

5600740          0.20                             40689 PWSgw      1   0 ANDRE DORAWA, PETE SCHULTZ   56  5600740W        02
         5600740-1     84  2    2.00       60      50     3     25      704407. 1080916 GW  02

5600747          9.20       3   3.30              51189 AGRgw      2   0 PIPPIN HUBERT PIPPIN, ESTATE 56  5600747W        08   13   1.5   11       20 0.85
         5600747-1     61  1    4.00      800     300     4    100      679402 1163119 GW  08
         5600747-2     61  1    5.00      800     300     4    200      679384 1164127 GW  08

5600748        919.00       3 338.20             51189  AGRbot    10   6 CRITTENDON, E.H., COOK. R.H. & 56 5600748W       08   13   1.5   11     1998 0.85
         5600748-1     59  1    6.00                      4    250      605445 1170539 GW  08 Cap. est.
         5600748-2     59  1    6.00                      4    250      607751 1170801 GW  08       "
         5600748-3     59  1    8.00     1200     400     4    575      604945 1167750 GW  08       "
         5600748-4     59  1    8.00     1200     400     4    575      608550 1167902 GW  08       "
         5600748-5     59  1    6.00                      4    250      606069 1166465 GW  08       "
         5600748-6     59  1    6.00                      4    250      604066 1163256 GW  08       "
         5600748-7     59  1    8.00     1200     400     4    575      605153 1162604 GW  08       "
         5600748-8     59  1    8.00     1200     400     4    575      604703 1159106 GW  08       "
         5600748-9     59  1    8.00     1200     400     4    575      604339 1156920 GW  08       "
         5600748-20    59  1    6.00                      4    250      610832 1152979 GW  08       "
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	5600748-1S			2				2	6500	610632 1152979 SW 99	Reservoir & Canal, Loc. estimated								
	5600748-2S			2				2	6500	610632 1152979 SW 99	Reservoir & Canal, Loc. estimated								
	5600748-3S			2				2	6500	610632 1152979 SW 99	Reservoir & Canal, Loc. estimated								
	5600748-4S			2				2	6500	610632 1152979 SW 99	Reservoir & Canal, Loc. estimated								
	5600748-5S			2				2	6500	610632 1152979 SW 99	Reservoir & Canal, Loc. estimated								
	5600748-6S			2				2	6500	610632 1152979 SW 99	Reservoir & Canal, Loc. estimated								
5600749		18.40		3	6.70		51189	AGRbot	1	1 ESTATE OF PIPPIN HUBERT PIPPIN									
	5600749-1		71	1	6.00	1000	265	4	400	653133 1123527 GW 08		56	5600749W	08	13	0.8	11	40	0.85
	5600749-1S		71	1				3	8000	652646 1124020 SW 99	FPFDO Canal								
5600750		41.40		3	15.20		51189	AGRbot	1	1 KIRCHMAN, KENNETH									
	5600750-1		72	1	6.00			4	200	690857 1149731 GW 08		56	5600750W	08	13	1.5	11	80	0.5
	5600750-1S		72	1				1	6000	691966 1149658 SW 99	FPFDO Canal								
5600751		0.63					42489	PWSgw	1	0 VIVIAN, JOHN C.									
	5600751-1		73	1	4.00	80	70 40	2	30	714807. 1143881 GW 02	G.P.	56	5600751W	02					
5600753		423.10		3	155.70		51189	AGRbot	30	13 VERO PRODUCERS, INC.									
	5600753-1		82	2	12.00	1100	450	4	2500	623420 1085489 GW 08		56	5600753W	08	13	0.8	12	920	0.85
	5600753-2		82	2	12.00	1100	450	4	2500	623372 1084774 GW 08									
	5600753-3		82	2	12.00	1100	450	4	2500	622490 1090099 GW 08									
	5600753-4		82	2	12.00	1100	450	4	2500	623702 1089888 GW 08									
	5600753-5		82	2	12.00	1100	450	4	2500	623756 1091441 GW 08									
	5600753-6		82	2	12.00	1100	450	4	2500	623400 1082218 GW 08									
	5600753-7		82	2	12.00	1100	450	4	2500	623463 1091232 GW 08									
	5600753-8		82	2	12.00	1100	450	4	2500	623158 1083502 GW 08									
	5600753-9		82	2	12.00	1100	450	4	2500	623701 1090919 GW 08									
	5600753-10		82	2	12.00	1100	450	4	2500	623080 1084224 GW 08									
	5600753-11		82	2	12.00	1100	450	4	2500	623163 1090746 GW 08									
	5600753-12		82	2	12.00	1100	450	4	2500	623075 1084890 GW 08									
	5600753-13		82	2	12.00	1100	450	4	2500	623701 1090454 GW 08									
	5600753-14		82	2	12.00	1100	450	4	2500	623330 1086412 GW 08									
	5600753-15		82	2	12.00	1100	450	4	2500	622492 1088678 GW 08									
	5600753-16		82	2	12.00	1100	450	4	2500	622530 1087057 GW 08									
	5600753-17		82	2	12.00	1100	450	4	2500	623397 1081568 GW 08									
	5600753-18		82	2	12.00	1100	450	4	2500	622561 1087956 GW 08									
	5600753-19		82	2	12.00	1100	450	4	2500	623419 1083322 GW 08									
	5600753-20		82	2	12.00	1100	450	4	2500	623047 1082334 GW 08									
	5600753-21		82	2	12.00	1100	450	4	2500	623294 1089056 GW 08									
	5600753-22		82	2	12.00	1100	450	4	2500	623106 1082884 GW 08									
	5600753-23		82	2	12.00	1100	450	4	2500	623691 1089442 GW 08									
	5600753-24		82	2	12.00	1100	450	4	2500	623165 1086584 GW 08									
	5600753-25		82	2	12.00	1100	450	4	2500	622479 1089360 GW 08									
	5600753-26		82	2	12.00	1100	450	4	2500	623519 1091621 GW 08									
	5600753-27		82	2	12.00	1100	450	4	2500	623056 1081820 GW 08									
	5600753-28		82	2	12.00	1100	450	4	2500	623122 1085621 GW 08									
	5600753-29		82	2	12.00	1100	450	4	2500	623313 1084052 GW 08									
	5600753-30		82	2	12.00	1100	450	4	2500	623739 1091939 GW 08									
	5600753-1S		82	2		1	17	2	2000	623736 1091248 SW 99	On site ditches								
	5600753-2S		82	2		1	17	2	2000	623134 1083185 SW 99									
	5600753-3S		82	2		1	17	2	2000	623150 1091203 SW 99									

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LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
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PERMIT   AN.              ALL  MAX    NO.     DATE  USE SRCNO.   SW                                                    CROP SOIL  RAIN    IRR   IRR
NO.      ALL.             UNT  NO.    UTS CO  ISS.  TYPE  WLS.   PMPS   OWNER                    CD  PERMIT NO.  DEV NO.  AQTYPE TYPE   ST    ACRES  EFF
==========================================================================================================================

LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
=====================================================================
PERMIT   FACILITY     QUAD.  WELL      DPTH            PMP PUM PUMP
NO.      NUMBER       NO. STSDIA.      COD   TD   CD   INT TYP CAP.  MTR?  XPLNR   YPLNR  SRC  AQ  COMMENTS
==========================================================================================================================


         5600753-4S    82  2            1              17  2   2000       622273 1090062 SW  99
         5600753-5S    82  2            1              17  2   2000       623343 1088679 SW  99
         5600753-6S    82  2            1              17  2   2000       623345 1084518 SW  99
         5600753-7S    82  2            1              17  2   2000       623108 1082029 SW  99
         5600753-8S    82  2            1              17  2   2000       623080 1084577 SW  99
         5600753-9S    82  2            1              17  2   2000       623431 1083145 SW  99
         5600753-10S   82  2            1              17  2   2000       623330 1086223 SW  99
         5600753-11S   82  2            1              17  2   2000       623397 1081985 SW  99
         5600753-12S   82  2            1              17  2   2000       622513 1087723 SW  99
         5600753-13S   82  2            1              17  2   2000       623073 1086255 SW  99

5600758          4.60                         50989 PWSgw     1   0 INDIAN RIVER ACADEMY           56  5600758           02
         5600758-1        1    2.00       80     70    1     75     699326. 1123403 GW  02 Temporary PWS,GP

5600759.         0.21                         50989 PWSgw     1   0 JAMES, GERALD                  56  5600759W          02
         5600759-1     84 1    2.00       90     80 80 1     10     711497. 1105188 GW  02

5600760          0.04                         51089 PWSgw     1   0 YOUNG&DANIEL DICKSON CONSTRUC.   56  5600760W          02
         5600760-1     73 1    2.00       60     50 20 1     50     709476. 1129918 GW  02       G.P.

5600763          1.10                         52689 LANsw     0   1 DAILY, THOMAS V.,AS BISHOP     56  5600763W              15                  7
         5600763-1S    84 1                            3     25     734612. 1068153 SW  99 On site lake,G.P.

5600765        525.60     3                   61589 MINgw     .0  1 STRAZZULA BROTHER COMPANY, INC   56  5600765W                               1800
         5600765-1S       2             1           -16 2  2000                         SW  99 On site pit,G.P.

5600768         13.80                         60789 PWSgw     2   0 J.C. STANLEY & ASSOC., INC.    56  5600768W          02
         5600768-1     72 1    6.00      110     90 68 2    150      684557 1141282 GW  02
         5600768-2     72 1    6.00      110     90 68 2    150      684351 1141501 GW  02

5600768          0.60                         60789 LANgw     1   0 EVANS, GARY                    56  5600769W          02  15                  0
         5600769-1     72 1    2.00       75     70    1     30     698774. 1107446 GW  02       G.P.

5600770          0.50                         61489 PWSgw     1   0 LAKEWOOD PARK UNITED METHODIST   56  5600770W          02
         5600770-1     61 1    2.00       80     80 15 2     40      697701 1163070 GW  02

5600771         99.30     3   31.70           71389 AGRgw     9   0 LYKES BROTHERS, INC.           56  5600771W          2,8  13  0.8   11       80 0.85
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5600771																		13	0.8	11	80	0.5	
	5600771-21	61	1	5.00	750	250		4	120		681840 1163282	GW	08										
	5600771-22	61	1	5.00	735	250		4	120		682231 1164050	GW	08	Cap. estimated									
	5600771-23	61	1	5.00	735	250		4	120		681881 1164230	GW	08	"									
	5600771-24	61	1	5.00	800	250		4	120		682342 1163275	GW	08	"									
	5600771-25	61	1	5.00	750	250		4	120		682832 1163317	GW	08	"									
	5600771-26	61	1	8.00	1200	250		4	375		682802 1163811	GW	08	"									
	5600771-27	61	1	5.00	800	250		4	120		682484 1164312	GW	08	"									
	5600771-28	61	1	5.00	800	250		4	120		682829 1164341	GW	08	"									
	5600771-29	61	1	5.00	700	250		4	90		680904 1163131	GW	08										
5600777	0.40					70789	PWSgw		1	0	CARTWRIGHT,JOHN & OLGA				56	5600777W	02				0		
	5600777-1	83	2	2.00	60	50	LAN	3	25		690018 1064750	GW	02										
5600779	5.70					70789	LANgw		1	0	CITY OF PORT ST. LUCIE				56	5600779W	02	15			5		
	5600779-1	84	2	6.00	90	60		2	120		704741 1082712	GW	02	Old well to be abandoned									
5600783	0.20					72189	PWSgw		1	0	L.N. DUNN SONS, INC.				56	5600783W	02						
	5600783-1	72	2	2.00	66	60		1	10		664773 1130785	GW	02										
5600784	0.80					72489	LANgw		1	0	GEN ELECTRIC MFG. CO. INC.				56	5600784W	02	15			2		
	5600784-1	73	2	2.00	53	48	5.	3	40		709927 1147807	GW	02	Old well to be abandoned									
5600785	92.20		3	33.90		91089	AGRbot		7	3	INGLEHART,STEWART & PHILLIP				56	5600785W	08				201		
	5600785-1	81	2	12.00	1200	650		4	800		615772 1074743	GW	08										
	5600785-2	81	2	12.00	1200	650		4	800		616366 1075278	GW	08										
	5600785-3	81	2	12.00	1200	650		4	800		615359 1074070	GW	08										
	5600785-4	81	2	12.00	1200	650		4	800		616036 1074352	GW	08										
	5600785-5	81	2	12.00	1200	650		4	800		616429 1074387	GW	08										
	5600785-6	81	2	12.00	1200	650		4	800		616720 1074626	GW	08										
	5600785-7	81	2	12.00	1200	650		4	800		615332 1073496	GW	08										
	5600785-1S	81	2					2	2000		615766 1074924	SW	99	On site canals									
	5600785-2S	81	2					2	2000		616092 1075356	SW	99	On site canals									
	5600785-3S	81	2					2	2000		615346 1074295	SW	99	On site canals									
5600788	133.50		3	39.30		91089	AGRbot		4	1	COCA-COLA FOODS				56	5600788W	08	13	1.5	11	205	0.75	
	5600788-1	72	1	5.00	800			4	250		662555 1137563	GW	08										
	5600788-2	71	1	5.00	800			4	300		661774 1138990	GW	08										
	5600788-3	71	1	5.00	800	350		4	125		659406 1138522	GW	08										
	5600788-4	71	2	8.00	800	350		4	400		659695 1138543	GW	08										
	5600788-1S	72	1		1		20	1	8200		662662 1138795	SW	99	Header Canal									
5600789	22.10		3	6.50		91089	AGRgw		2	0	COCA-COLA FOODS				56	5600789W	08	13	1.5	11	34	0.75	
	5600789-1	72	1	5.00	550			4	160		698322 1136179	GW	08										
	5600789-2	72	1	5.00	550			4	220		698607 1136707	GW	08										
5600794	1.40					91189	PWSgw		2	0	SUN COAST BUILDERS,G.C.				56	5600794W	02						
	5600794-1	84	1	2.00	63	63	20	2	14		718587. 1094622	GW	02	G.P.									
	5600794-2	84	1	2.00	65	65	20	2	14		718405. 1094823	GW	02										
5600795	0.20					81689	PWSgw		1	0	REVELS, PAUL				56	5600795W	02						
	5600795-1	84	2	2.00	60	50		3	15		704320. 1080309	GW	02	G.P.									

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LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
==========================================================================================================
PERMIT   AN.                 ALL  MAX   NO.     DATE  USE SRCNO.   SW
NO.      ALL.                UNT  NO.   UTS CO  ISS.  TYPE  WLS.   PMPS   OWNER                                   CROP SOIL  RAIN   IRR   IRR
==========================================================================================  CO  PERMIT NO.  DEV NO.  AQTYPE TYPE   ST   ACRES  EFF
                                                                                            ===========================================================
LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
==========================================================================================
PERMIT   FACILITY    QUAD.  WELL      DPTH          PMP PUM PUMP
NO.      NUMBER      NO. STSDIA.      COD   TD   CD  INT TYP CAP.  MTR?  XPLNR  YPLNR  SRC  AQ  COMMENTS
==========================================================================================================================================


5600796         0.36                          81889 PWSgw      2   0 ORANGE-CO OF FLORIDA, INC.             56  5600796W          02
        5600796-1     72  1     4.00     120     80    1      50      668803 1134044 GW  02 existing well to be plugged
        5600796-2     72  2     8.00      95     95    2     100      669056 1134046 GW  02
5600797         3.65                          81889 LANgw      1   0 CITY OF PORT ST. LUCIE                 56  5600797W          02   15                9
        5600797-1     84  2     4.00     105     85    1      30      706072. 1072846 GW  02        G.P.
        5600797-2     84  2     2.00      95     85    1      30      705891. 1073047 GW  02
5600798         0.07                          81889 PWSgw      1   0 CITY OF PORT ST. LUCIE
        5600798-1     84  1     2.00      95     85    1      30      706095 1072713 GW  02                56  5600798W          02
5600804         0.78                          82489 LANgw      1   0 SUNRISE FORD COMPANY
        5600804-1     84  1     2.00    53.5     48 5.  3     40      718362. 1102800 GW  02       G.P.    56  5600804W          02   15                1
5600805         0.22                          82589 PWSgw      1   0 HIGH TIDE SALES,-DON WOOD
        5600805-1     73  2     2.00      90     80 80  1     10      705515. 1111519 GW  02       G.P.    56  5600805W          02   15                0
5600806         0.49                          82889 PWSgw      1   0 AMERICAN TIRE & MUFFLER. INC.
        5600806-1     84  1     2.00      60     50 20  1    100      706794. 1072849 GW  02       G.P.    56  5600806W          02   15                0
5600814         0.91                          91889 PWSgw      1   0 CROSS, MAX
        5600814-1     61  2     2.00      90     80 LAN 1     15      695182. 1160444 GW  02       G.P.    56  5600814W          02   15                1
5600815         0.04                          92089 PWSgw      1   0 HCW, INC.
        5600815-1     73  2     2.00      70     63    3      10      705769 1109993 GW  02                56  5600815W          02
5600816         9.63                         101289 LANgw      1   0 SCHOOL BOARD/ST. LUCIE COUNTY          56  5600816W          02   15   0.8    4     9  .75
        5600816-1     83  2     2.00      70     60    3      20      701342. 1080496 GW  02 WELL COORDS. ARE APPROX.
        5600816-2     83  2     2.00      70     60    3      20      701338. 1081304 GW  02 NOT DRILLED YET
5600829                                      101989 PWSgw      1   0 WOVV RADIO STATION
        5600829-1     73  2     2.00      69     59    2      18      707071 1127971 GW  02                56  5600829W          02
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Martin County

Water Use Spreadsheets

Martin County

Martin County Water Use Spreadsheets

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LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forecasted Agricultural Demand for Each Permit)
==========================================================================================================
PERMIT   AN.                ALL.  MAX   NO.      DATE  USE SRC.NO.   SW
NO.      ALL.               UNT.  NO.   UTS. CO ISS.   TYPE   WLS.  PMPS   OWNER
                                                                                          CROPSOIL  RAIN   IRR    IRR
                                                      CO  PERMIT NO.  DEV NO.  AQ TYPETYPE   ST    ACRES  EFF
==========================================================================================================
LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
==========================================================================================================
PERMIT   FACILITY      QUAD    WELL     DPTH          PMP PUMP PUMP
NO.      NUMBER        NO. STS DIA.     CODE  TD  CD  INT TYPE CAP. MTR?  XPLNR  YPLNR  SRC  AQ.  COMMENTS
==========================================================================================================
==========================================================================================================
Surface water pumps given aquifer code of 5
Floridan Aquifer System Wells ONLY

4300028        28.52    03                  43 5/87  AG  GW       1    0 BYRON GRANT/GRANT CITRUS GROVE        43      28          08  13  0.8   24        62 0.85
     4300028-1      107 01    10.00 02  1300  280            1000         647281  976626 GW  08

4300030        577.8    03                  43 10/88 LSC GW       4    0 SAILFISH POINT, INC.                  43      30          08  15  0.4    4       458  .85
     4300030-1       97 01    10.00 02  1500                   95 Y     770772 1035672 GW  08  FLOWS CONTINOUSLY. CHL:500PPM, GOLF COURSE. MOD.NODE 34,43
     4300030-2       97 01    10.00 02  1000                  640 Y     769798 1033166 GW  08  FOR POTABLE R.O. PLANT.NODE 35,43
     4300030-3       97 01     6.00 02  912   300             250 Y     769998 1033166 GW  08  WELLS 3,7,8,9 METERED AS ONE GOES TO POA SYSTEM. NODE 35,43
     4300030-4       97 01     6.00 02  1140  315             110 Y     770972 1035672 GW  08  GOLF COURSE, FLOWS CONTINUOSLY. MOD NODE 34,43
     4300030-5       97 01    10.00 02  965                  1200 Y     769866 1034058 GW  08  GOLF COURSE, FLOWS CONTINUOSLY. NODE 35,43
     4300030-6       97 01    10.00 02  1150                  740 Y     769866 1034258 GW  08  FOR POTABLE R.O. PLANT. NODE 35,43
     4300030-7       97 01    10.00 02  1150  500             850 Y     772310 1031856 GW  08  WELLS 3,7,8,9 METERED AS ONE GOES TO POA SYSTEM.NODE 35,43
     4300030-8       97 01    10.00 02  1150                  200 Y     772510 1031856 GW  08  WELLS 3,7,8,9 METERED AS ONE GOES TO POA SYSTEM.NODE 35,43
     4300030-9       97 01    10.00 02  1200  750             850 Y     770147 1033360 GW  08  WELLS 3,7,8,9 METERED AS ONE GOES TO POA SYSTEM.NODE 35,43

4300031       229.85    03                  43 8/87  GLF BOTH     5    1 MARTIN CO. GOLF & C.C.                43      31          02  15  0.4    4       182 0.75
     4300031-1       97 01     6.00 02  115   107  14 01       20 Y     754382 1036460 GW  02                                             08
     4300031-2       97 01     6.00 02  125   117  16 01       20 Y     755081 1035097 GW  02
     4300031-3       97 01     6.00 02  90            02      400 Y     757376 1035414 GW  02
     4300031-4       97 01     4.00 02  60            02      200 Y     757275 1034150 GW  02
     4300031-5       97 01     3.00 02  40            02      200 Y     757757 1034527 GW  02
     4300031-6       97 01     3.00 02  40     -      02      200 Y     757759 1034298 GW  02
     4300031-7       97 01     8.00 02  1025  610             640 Y     755039 1033110 GW  08  Flow well locked closed 4/90 high salt.15 days/mo.prev.
     4300031-SW1     97 02                                   1000       755000 1033000 SW  5   Location estimated

4300062      5432.01    03                  43 11/87 AG  BOTH     2    1 R. W. CARLTON
4300062                                                                                                43      62          08  13  1.5   24       680 0.50
     4300062-1       94 01     6.00 02  960   220             250       649821 1032868 GW  08                                                 20  1.5   24      5780 0.50
     4300062-2       94 01     6.00 02  960   220             250       657544 1033336 GW  08
     4300062-SW3     94 01    30.00                         10000       642000 1044300 SW  5   C-23
     4300062-SW4     94 01    42.00                         30000       647600 1044300 SW  5   Locations estimated
     4300062-SW5     94 01    24.00                         10000       657700 1044300 SW  5       "
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	4300062-SW6		94 01	24.00				10000	662400 1044300 SW 5	"							
4300067		50.1	03		43 1/82	LSC BOTH		1	3 MILES GRANT C.C.								
	4300067-		97 03	8.00 02				180 Y	768350 1024800 GW 02	MIX WATER W/FLORIDAN WELL	43	67	02	15	0.4	4	88 0.75
	4300067-SW1		97 01					320 Y	642000 1044300 SW 5	SEWAGE EFFLUENT POND, Loc. est.							
	4300067-SW2		97 01					320 Y	647600 1044300 SW 5	SEWAGE EFFLUENT POND, Loc. est.							
	4300067-SW3		97 01					80 Y	662400 1044300 SW 5	SEWAGE EFFLUENT POND, Loc. est.							
	4300067-		97 02					80 Y	768700 1024150 GW 08	EMERG. BACKUP TO FILL POND							
4300071		57.49	03		43 10/87	AG GW		1	0 JOSEPH D. FARISH, JR.								
	4300071-1		107 01	8.00 02	1150		01	575	645598 975630 GW 08		43	71	08	13	0.8	24	125 0.85
4300082		11.35	03		43 10/88	LNSCGW		1	0 RIVER CLUB OF MARTIN CO.								
	4300082-1		97 01	6.00 02	945	684		200	749915 1050056 GW 08	FLOWS 200 GPM	43	82	08	15	0.4	4	9 0.75
4300093		14699.23	03		43 3/88	AG BOTH		36	2 ALLAPATAH PROP. PARTNERSHIP								
	4300093-36		108 01	5.00 02	1300	320		100 N	667718 1013071 GW 08	NO VALVE, EST. CAP.	43	93	02	20	0.8	24	15780 0.50
	4300093-1		95 01	2.00 02	65			40 N	677912 1042219 GW 02	EST.CAP.							
	4300093-2		95 01	2.00 02	65			40 N	678099 1042026 GW 02	EST.CAP							
	4300093-3		95 01	6.00 02	1300	320		25 N	677906 1040467 GW 08	NO VALVE							
	4300093-4		95 01	6.00 02	1300	320		20 N	681831 1041252 GW 08	NO VALVE							
	4300093-5		95 01	2.00 02	65			40 N	687625 1042717 GW 02	CAP.EST.							
	4300093-6		95 01	2.00 02	65			40 N	670730 1038799 GW 02	CAP.EST.							
	4300093-7		95 01	2.00 02	65			40 N	677215 1038646 GW 02	CAP.EST.							
	4300093-8		95 01	6.00 02	1300	320		25 N	677535 1038567 GW 08	NO VALVE							
	4300093-9		95 01	2.00 02	65			40 N	685803 1035621 GW 02	CAP.EST.							
	4300093-10		95 01	6.00 02	1300	320		50 N	673630 1030783 GW 08	HAS VALVE							
	4300093-11		95 01	2.00 02	65		01	65 N	669990 1029507 GW 02								
	4300093-12		95 01	2.00 02	65			65 N	674250 1028787 GW 02	CAP.EST.							
	4300093-19		95 01	2.00 02	65			65 N	662801 1027855 GW 02	CAP.EST.							
	4300093-26		95 01	2.00 02	65			65 N	664245 1023086 GW 02	CAP.EST.							
	4300093-27		95 01	2.00 02	65			65 N	671657 1025690 GW 02	CAP.EST.							
	4300093-28		95 01	6.00 02	1300	320		10 N	674257 1028122 GW 08	NO VALVE							
	4300093-29		95 01	2.00 02	65			65 N	682095 1028071 GW 02	CAP. EST.							
	4300093-30		95 01	4.00 02	65			40 N	683849 1027312 GW 02	CAP. EST.							
	4300093-31		95 01	4.00 02	65			40 N	684279 1027371 GW 02	CAP. EST.							
	4300093-32		95 01	2.00 02	65			25 N	678977 1021698 GW 02	CAP. EST.							
	4300093-13		94 01	2.00 02	65		01	65 N	657427 1027834 GW 02								
	4300093-14		94 01	2.00 02	65			25 N	653737 1025853 GW 02	CAP. EST.							
	4300093-15		94 01	2.00 02	65			25 N	655095 1025879 GW 02	CAP. EST.							
	4300093-16		94 01	2.00 02	65			25 N	655951 1025854 GW 02	CAP. EST.							
	4300093-17		94 01	3.00 02	65			25 N	657243 1024579 GW 02	CAP. EST.							
	4300093-18		94 01	2.00 02	65		01	25 N	659962 1027826 GW 02								
	4300093-20		94 01	2.00 02	65			35 N	661180 1027080 GW 02	CAP. EST.							
	4300093-21		94 01	2.00 02	65			35 N	659957 1026259 GW 02	CAP. EST.							
	4300093-22		94 01	6.00 02	1300	320		100 N	661766 1025170 GW 08	HAS VALVE, CAP. EST							
	4300093-23		94 01	2.00 02	65			35 N	657674 1024710 GW 02	CAP EST.							
	4300093-24		94 01	2.00 02	65			35 N	660410 1024448 GW 02	CAP EST.							
	4300093-25		94 01	2.00 02	65			35 N	660323 1023187 GW 02	CAP EST.							
	4300093-33		94 01	4.00 02	65			35 N	651658 1016538 GW 02	CAP EST.							
	4300093-34		94 01	2.00 02	65			35 N	653680 1017189 GW 02	CAP EST.							
	4300093-35		94 01	2.00 02	65			35 N	655581 1016645 GW 02	CAP EST.							

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LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
=================================================================================================================
PERMIT   AN.              ALL.  MAX  NO.       DATE  USE SRC.NO.   SW
NO.      ALL.             UNT.  NO.  UTS. CO ISS.  TYPE     WLS.  PMPS   OWNER                                    CROPSOIL  RAIN    IRR   IRR
                                                                                   CO  PERMIT NO.  DEV NO.  AQ TYPETYPE   ST     ACRES  EFF
=================================================================================================================
LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
=================================================================================================================
PERMIT   FACILITY        QUAD    WELL    DPTH          PMP PUMP PUMP
NO.      NUMBER          NO. STS DIA.    CODE  TD  CD  INT TYPE CAP. MTR?  XPLNR   YPLNR  SRC  AQ.  COMMENTS
=================================================================================================================
=================================================================================================================

         4300093-SW1    95 01                                        5        674000 1044300 SW  5   C-23, loc.exact
         4300093-SW2    95 01                                    18000        684500 1044300 SW  5   C-23, loc.exact

4300117       1690.5      03              43 5/87  AG  BOTH     5   2 CAULKINS INDIANTOWN GROVES    43      117        08  13  1.5   24    3402 0.75
         4300117-1     108 01   10.00 02  1340  390           775 Y    688736  980951 GW  08  FLOWS 775 GPM
         4300117-2     108 01   10.00 02  1320  400           675 Y    699991 1000740 GW  08  FLOWS 675 GPM
         4300117-3     108 01   10.00 02  1280  400           840 Y    700016  996753 GW  08  FLOWS 840 GPM
         4300117-4     108 01   10.00 02  1250  400           800 Y    699945  991254 GW  08  FLOWS 800 GPM
         4300117-5     108 01   10.00 02  1250  400           800 Y    699994  986103 GW  08  FLOWS 800 GPM
         4300117-SW1   108 01                               20000      700000  984000 SW  5   C-44,Loc.estim.
         4300117-SW2   108 01                               20000      700000  984000 SW  5   C-44,Loc.estim.

4300122       3099.97     03              43 9/88  AG  BOTH    10   4 CAULKINS LAND (VENTURES 1 & 11)    43      122        08  13  1.5   24    1900 0.85
         4300122-I-1   108 01   10.00 02  1340  390           850 Y    668300  970000 GW  08  FLOWS 850 GPM
         4300122-II-1  107 01   10.00 02  1340  400          1450 Y    657596  972662 GW  08  FLOWS 1450 GPM
         4300122-II-2  124 01   10.00 02  1320  400           800 Y    668160  966268 GW  08  FLOWS 800 GPM
         4300122-II-3  124 01   10.00 02  1340  400           850 Y    668073  962196 GW  08  FLOWS 850 GPM
         4300122-II-4  124 01   10.00 02  1250  400          1250 Y    668047  958226 GW  08  FLOWS 1250 GPM
         4300122-II-5  107 01   10.00 02  1250  400          1400 Y    646340  991159 GW  08  FLOWS 1400 GPM
         4300122-I-2   123 01   10.00 02  1340  400           975 Y    657398  969328 GW  08  FLOWS 975 GPM
         4300122-I-3   123 01   10.00 02  1320  400          1500 Y    657417  966666 GW  08  FLOWS 1500 GPM
         4300122-I-4   123 01   10.00 02  1320  400          1050 Y    657536  964115 GW  08  FLOWS 1050 GPM
         4300122-I-5   123 01   10.00 02  1320  400          1275 Y    657499  960191 GW  08  FLOWS 1275 GPM
         4300122-SW1   108 01                               20000 Y    657699  960191 SW  5   C-44,Loc.estim.
         4300122-SW2   108 01                               20000 Y    657699  960191 SW  5   C-44,Loc.estim.
         4300122-SW3   107 01                               25000 Y    657699  960191 SW  5   C-44,Loc.estim.
         4300122-SW4   107 01                               25000 Y    657699  960191 SW  5   C-44,Loc.estim.

4300130       32.2        03              43 4/79  LSC GW       1   0 JOES POINT VENTURE            43      130        08  15  0.4    4      34 0.75
         4300130-2      97 01    8.00 02  1000  700           500      760785 1057260 GW  08  EST. FLOW 500 GPM

4300140       5.91        03              43 8/89  GLF BOTH     4   4 TURTLE CREEK CLUB             43      140        02  15  0.4   18     105 0.75
         4300140-1     127 01    8.00 02  1000                300 Y    787161  961327 GW  08
         4300140-4     127 01    8.00 02  1000                300 Y    785472  962099 GW  08
         4300140-5     126 01    2.00 02  500                  40 Y    784679  962388 GW  08
         4300140-6     126 01    2.00 02  500                  40 Y    784370  962284 GW  08
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	4300140-SW1		01							450	Y	785200	963000	SW	5	ON-SITE LAKES,loc.estim.								
	4300140-SW2		01							450	Y	785000	963000	SW	5	ON-SITE LAKES,loc.estim.								
	4300140-SW3		01							450	Y	785700	963000	SW	5	ON-SITE LAKES,loc.estim.								
	4300140-SW4		01							250	Y	785800	963000	SW	5	ON-SITE LAKES,loc.estim.								
4300159		49.21	03						43 11/87 AG GW	1	0	SULLIVAN & HUFFMAN					43	159	08	13	0.8	24	107	0.85
	4300159-1	107	01	10.00	02	1496	400			720		654848	991489	GW	08	FLOWS 720 GPM								
4300172		73.59	03						43 4/87 AG GW	1	0	T & T ENTERPRISES					43	172	08	13	0.8	24	160	0.85
	4300172-1	107	01	8.00	02	1210	393			800		647291	983206	GW	08	FLOWS 800 GPM								
4300190		47.34	03						43 5/89 AG BOTH	11	1	NEIL E. MACMILLAN					43	190		13	1.5	24	102	0.85
	4300190-1	94	01	2.00	02	154	149			40		634365	1021516	GW	02	WINDMILL								
	4300190-2	94	01	2.00	02	94	89			40		633875	1020722	GW	02	WINDMILL								
	4300190-3	94	01	2.00	02	18	13			40		633625	1018770	GW	02	WINDMILL								
	4300190-4	94	01	2.00	02	30	27			10		634465	1017960	GW	02	HAND PUMP								
	4300190-5	94	01	2.00	02	30	25			10		634017	1015819	GW	02	HAND PUMP								
	4300190-7	94	01	2.00	02	70	65			40		635099	1018576	GW	02	WINDMILL								
	4300190-9	94	01	8.00	02	1200	400			300		633356	1019746	GW	08	FLOWS 300 GPM								
	4300190-10	94	01	8.00	02	1100	400			250		634997	1022210	GW	08	FLOWS 250 GPM								
	4300190-6	107	01	2.00		125	120			50		633793	1013707	GW	02	WINDMILL								
	4300190-8	107	01	2.00		86	81	03				633425	1013170	GW	02									
	4300190-11	107	01	10.00		1170	400			500		634673	1013575	GW	08	FLOWS 500 GPM								
	4300190-12	107	02	10.00		1150	450			500		634513	1011903	GW	08	FLOW								
	4300190-SW1	107	01							1000		634673	1013575	SW	5	DITCH, Loc. estim.								
	4300190-SW2	107	02							1225		634513	1011903	SW	5	DITCH, Loc. estim.								
4300217		12	03						43 8/87 AG GW	1	0	CAULKINS INDIANTOWN CITRUS(WASTEWATER)					43	217	08	13	0.8	24	148	0.85
	4300217-1	107	03	10.00	02	1400	451			200	N	661857	991852	GW	08	FLOWS 200 GPM (USING RECLAIMED WATER FROM CITRUS PROCESSING PLANT-NO ALL								
4300260		89.84	03						43 4/89 GLF BOTH	1	3	INDIANWOOD ASSOC., INC.					43	260	08	15	0.8	24	86	0.75
	4300260-1	108	01	8.00	02	1300	400			500	Y	671400	982900	GW	08	installed 8/89. run 20 days/mo.								
	4300260-SW1	108	01							400	Y	671600	982900	SW	5	ON-SITE LAKES,Loc. estim.								
	4300260-SW2	108	01							400	Y	671600	982900	SW	5	ON-SITE LAKES,Loc. estim.								
	4300260-SW3	108	01							200	Y	671600	982900	SW	5	ON-SITE LAKES,Loc. estim.								
4300321		50.46	03						43 11/87 AG SW	0	2	KARST, INC.					43	321		13	3.6	24	110	0.85
	4300321-SW1	108	02							286				SW	5	TROUP-INDIANTOWN CANAL								
	4300321-SW2	108	02							286				SW	5	TROUP-INDIANTOWN CANAL								
4300329		35.51	03						43 2/89 GLF GW	1	0	RADNOR PLANTATION					43	329	08	15	0.4	4	70	0.75
	4300329-IR2	97	03	8.00	02	1025	590			420	Y	765343	1047272	GW	08	CAP. EST.								
	4300329-PW3	97	01	8.00	02	1025	315	124 01		420	Y	765520	1046870	GW	08	6" PVC LINER 0'-685'								
4300360		1487.49	03						43 4/87 AG BOTH	4	2	INDIAN RIVER CITRUS INV.					43	360	08	13	0.8	24	3234	0.85
	4300360-W4	109	01	10.00	02	1250	393			1020	Y	708054	1000956	GW	08	FLOWS 1020 GPM								
	4300360-W3	109	01	10.00	02	1150	380			980	Y	708075	997055	GW	08	FLOWS 980 GPM								
	4300360-W1	109	01	10.00	02	1100	420			950	Y	708114	990408	GW	08	FLOWS 950 GPM								
	4300360-W2	109	03	10.00	02	1200	400			1000	Y	708152	994456	GW	08	EST. FLOW 1000 GPM								
	4300360-SW1	109	01	30.00						20000		708054	1000956	SW	5	C-44,Loc.estim.								
	4300360-SW2	109	01	36.00						25000		708152	994456	SW	5	C-44,Loc.estim.								

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====================================================================================================================
LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
====================================================================================================================
PERMIT   AN.                 ALL.  MAX   NO.       DATE  USE SRC.NO.  SW
NO.      ALL.                UNT.  NO.   UTS.  CO  ISS.  TYPE    WLS.  PMPS  OWNER                                    CO  PERMIT NO.  DEV NO.  AQ  CROPSOIL  RAIN   IRR    IRR
                                                                                                                                                         TYPETYPE   ST    ACRES  EFF
====================================================================================================================
LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
====================================================================================================================
PERMIT   FACILITY       QUAD     WELL    DPTH             PMP PUMP PUMP
NO.      NUMBER         NO. STS  DIA.    CODE  TD   CD    INT TYPE CAP.  MTR?  XPLNR   YPLNR   SRC  AQ.  COMMENTS
====================================================================================================================
====================================================================================================================

4300362              50     03                    43 12/86 IND GW      2   0 CAULKINS INDIANTOWN CITRUS CO.        43       362         08   13   0.8    24       86 0.85
         4300362-1   107 01       8.00 02  175    129  90 02          60 Y     659016  986105 GW  02  WATER REUSED ON ADJ GROVE (43-00217)
         4300362-2   107 01       8.00 02  175    129  90 02          60 Y     659142  985920 GW  02
         4300362-3   107 01      10.00 02  1000   400                300       658307  985614 GW  08  EST. FLOW 300 GPM  This well just came on line recently.
4300485           88.31     03                    43 2/89  LAN GW      2   0 RADNOR/PLANT (INDIAN RIV. PLANT.)     43       485         08   15   0.4     4       70 0.75
         4300485-IR-1 97 01       8.00 02  1010   590      01        420 Y     766436 1047258 GW  08  CAP.EST.
         4300485-IR-4 97 01       8.00 02  1025   590      01        420 Y     765565 1046494 GW  08  CAP.EST.
4300501           15.27     03                    43 5/89  AG  GW      1   0 FENNEL 43 ACRE GROVE                  43       501         08   13   0.8    24       33 0.85
         4300501-1   107 02       6.00 02  1000   400                310       652093  992717 GW  08  EST. FLOW 310 GPM
4300503           11.29     03                    43 5/89  AG  GW      1   0 FENNEL 35 ACRE GROVE                  43       503         08   13   0.8    24       35 0.85
         4300503-1   107 02       6.00 02  1000   400                230       655658  997137 GW  08  EST. FLOW 310 GPM
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Okeechobee County

Water Use Spreadsheets

Okeechobee County

Okeechobee County Water Use Spreadsheets

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==================================================================================================================================
LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
==================================================================================================================================
PERMIT     AN.              ALL  MAX    NO.     DATE USE SRC.NO.   SW                                                  CROP SOIL  RAIN    IRR    IRR
NO.        ALL.             UNT  MO.    UTS CO  ISS. TYPE   WLS.  PMPS   OWNER                 CO  PERMIT NO.  DEV NO.  AQ TYPE TYPE   ST    ACRES  EFF
==================================================================================================================================

LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
==================================================================================================================================
PERMIT     FACILITY     QUAD.  WELL      DPTH          PMP PUMP PUMP
NO.        NUMBER       NO. STSDIA.      COD  TD    CD INT TYPE CAP. MTR?  XPLNR  YPLNR  SRC  AQ  COMMENTS
==================================================================================================================================
==================================================================================================================================
Only FAS wells included here.

 4700005       482.08     03     83.17 02    47 3/76 AG   GW      4   0 M CROSS RANCH, INC.                                   08   20   .8    12     450   .5
         4700005-1    80 03        8 02  1200  160       02   600 NO  568857. 1105192 GW   8 NO NATURAL FLOW HERE
         4700005-2    80 03        8 02  1200  160       02   600 NO  570037. 1102517 GW   8
         4700005-3    80 03        8 02  1200  160       02   600 NO  571711. 1100389 GW   8
         4700005-4    80 03        8 02  1200  160       02   600 NO  570010. 1098631 GW   8

 4700014         1780     04      13.5 02    47 9/76 AG   GW      1 N    MURPHY WHITE DAI                                     08   20   .8    12     679   .5
         4700014-1    92 01        8 02  1000             GW    312 N    574724. 1054479 GW  08

 4700022        278.1     03    102.74 02    47 12/76AG   BOTH    1   2 M.J.RANCH                        47                   08   13   1.5   11     357 0.50
         4700022-1    59 01     10.00 02  1000  260             850 N    581339. 1154522 GW   8 2 CULVERTS ALSO,cap.estim.

 4700023      1668.45     03     257.1 02    47 12/76AG   GW      9      CHARLES T. SCOTT RANCH,INC.                          08   20   .8    12     616   .5
 4700023                         227.9                    SW          4                                                       08   13   .8    12    2192  .85
         4700023-1    59 01        8 02  1000   60              580 N    588522. 1155926 GW   8 TOP LINE BROKEN INTO TWO LINES
         4700023-2    59 01        8 02  1000   60              580 N    588479. 1154341 GW   8 TWO CROP TYPES, 2 SOURCES WATER
         4700023-3    59 01        8 02  1000   60              580 N    590751. 1153974 GW   8 WITH 2 MONTHLY ALLOCATIONS
         4700023-4    59 01        8 02  1000   60              580 N    590844. 1152178 GW   8
         4700023-5    70 01        8 02  1000   60              580 N    590836. 1149273 GW   8
         4700023-6    70 01        8 02  1000   60              580 N    589965. 1147406 GW   8
         4700023-7    70 01        8 02  1000   60              580 N    592440. 1139925 GW   8
         4700023-8    70 01        8 02  1000   60              580 N    592452. 1135743 GW   8
         4700023-9    70 01        8 02  1000   60              580 N    593213. 1134288 GW   8
         4700023-10   70 01        8 02  1000                   600 N    585747. 1147695 GW   8
         4700023-11   70 02        8 02  1000                   600 N    586618. 1146769 GW   8

 4700036       171.23     03     24.67 02    47 4/77 AG   GW      1   0 G BAR E RANCH                                         08   15   0.8   12
         4700036-1    80 01      6.00 02  1000  200             600 N                     GW   8 EXPIRES 1993

 4700039       241.04     03     41.58 02    47 1/77 AG   GW      4   0 ENRICO DAIRY,INC                 47                   08   20   0.8   12     225 0.50
         4700039-1    93 01      8.00 02  1300  700             514 N    596959. 1044633 GW  08
         4700039-2    93 01      8.00 02  1300  700             514 N    595544. 1039888 GW  08
         4700039-3    93 01      8.00 02  1300  700             514 N    589665. 1040455 GW  08
         4700039-8    93 01      6.00 02   150  100      02     100 N    595989. 1035573 GW  02
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4700044		642.77	03	110.89 02	47	7/77	AG	GW	1		0	COOK INTERNATIONAL, INC.	08	20	0.8	12	600 0.50
	4700044-1		69 01	12.00 02	1230	600		02	3000	N		568487. 1113221 GW 08 (REMILU RANCH)					
4700047		7850	04	33.70 02	47	1/78	AG	GW	12		0	CHARLES MCARTHUR CALF ENTERPRISES 47	08	20	0.8	12	2989 0.50
	4700047-1		81 01	2.00 02	800			02	65	N		596093. 1090927 GW 08 USE WASHING WATERING CATTLE					
	4700047-2		81 01	2.00 02	800			02	65	N		592901. 1091092 GW 08 ""					
	4700047-3		81 01	2.00 02	800			02	65	N		591134. 1090198 GW 08 ""					
	4700047-4		81 01	2.00 02	800			02	65	N		587551. 1090676 GW 08 ""					
	4700047-5		81 01	2.00 02	800			02	65	N		587500. 1089180 GW 08 ""					
	4700047-6		81 01	2.00 02	800			02	65	N		587596. 1087204 GW 08 ""					
	4700047-7		81 01	2.00 02	800			02	65	N		587376. 1084545 GW 08 ""					
	4700047-8		81 01	2.00 02	800			02	65	N		587412. 1083192 GW 08 ""					
	4700047-9		81 01	2.00 02	800			02	65	N		588129. 1083046 GW 08 ""					
	4700047-10		81 01	2.00 02	800			02	65	N		587461. 1079438 GW 08 ""					
	4700047-11		81 01	2.00 02	800			02	65	N		587146. 1076138 GW 08 ""					
	4700047-12		81 01	2.00 02	800			02	65	N		587131. 1074738 GW 08 ""					
4700051		2357.3	03	445.6 02	47	7/78	AG	GW	79		0	EVANS PROPERTIES, INC	08	13	0.8	12	5125 0.85
	4700051-1		59 01	8.00 02	1000				575			599777. 1171875 GW 08 OLD WELLS EVANS CLAIMS					
	4700051-2		59 01	8.00 02	1000				575			601648. 1168793 GW 08 THEY DON'T USE. WERE INSTALLED					
	4700051-3		59 01	8.00 02	1000				575			593819. 1169424 GW 08 BY PREVIOUS OWNERS					
	4700051-4		59 01	8.00 02	1000				575			591241. 1168179 GW 08 TD'S APPROX.GUESSES AT BEST					
	4700051-5		59 01	8.00 02	1000				575			591745. 1163714 GW 08 "					
	4700051-6		59 01	8.00 02	1000				575			591751. 1160454 GW 08 "					
	4700051-7		59 01	8.00 02	1000				575			588270. 1159046 GW 08 "					
	4700051-8		59 01	8.00 02	1000				575			602349. 1164343 GW 08 "					
	4700051-9		59 01	8.00 02	1000				575			603172. 1160703 GW 08 "					
	4700051-10		59 01	8.00 02	1000				575			602504. 1159783 GW 08 "					
	4700051-11		59 01	8.00 02	1000				575			598592. 1166837 GW 08 "					
	4700051-12		59 01	8.00 02	1000				575			594655. 1159964 GW 08 "					
	4700051-13		59 01	8.00 02	1000				575			597147. 1160120 GW 08 "					
	4700051-14		59 01	8.00 02	1000				575			593443. 1166959 GW 08 "					
	4700051-15		59 01	8.00 02	1000				575			592446. 1165405 GW 08 "					
	4700051-16		59 01	8.00 02	1000				575			595993. 1164528 GW 08 "					
	4700051-17		59 01	8.00 02	1000				575			597154. 1166799 GW 08 "					
	4700051-18FW		59 01	8.00 02	1021	210			575	Y		590278. 1169585 GW 08 FROM HERE DOWN TO PROPOSED WELLS					
	4700051-23FW		59 01	8.00 02	1000	227			575	Y		590379. 1166705 GW 08 ARE EXISTING WELLS					
	4700051-31FW		59 01	8.00 02	1060	257			575	Y		590356. 1161687 GW 08 DRILLED BY EVANS IN EARLY '80'S					
	4700051-35FW		59 01	8.00 02	1080	265			575	Y		590397. 1159104 GW 08 ARE BEING USED CURRENTLY					
	4700051-17DW		59 01	8.00 02					575	Y		595745. 1170970 GW 08 PROB.PUMPED					
	4700051-19DW		59 01	8.00 02					575	Y		595734. 1169979 GW 08 "					
	4700051-23DW		59 01	8.00 02					575	Y		596141. 1167317 GW 08 "					
	4700051-27DW		59 01	8.00 02					575	Y		595662. 1163766 GW 08 "					
	4700051-31DW		59 01	8.00 02		116			575	Y		595677. 1161360 GW 08 "					
	4700051-35DW		59 01	8.00 02	1020	252			575	Y		595619. 1158754 GW 08 "					
	4700051-19BW		59 01	8.00 02	1000	218			575	Y		601175. 1169562 GW 08 "					
	4700051-23BW		59 01	8.00 02		200			575	Y		601085. 1166576 GW 08 "					
	4700051-27BW		59 01	8.00 02					575	Y		600952. 1164096 GW 08 "					
	4700051-31BW		59 01	8.00 02					575	Y		600978. 1161338 GW 08 "					
	4700051-35BW		59 01	8.00 02					575	Y		600907. 1158697 GW 08 "					
	4700051-16FW		59 02	8.00 02	1000	250			575	Y		590233. 1170796 GW 08 HERE DOWN PROPOSED WELLS					
	4700051-19FW		59 02	8.00 02	1000	250			575	Y		590259. 1169237 GW 08 HAVE APPROX.T.D.'S AND C.D.'S					

	4700051-21FW	59	02	8.00	02	1000	250				575	Y	590205.	1167905	GW	08	LOCATIONS TENTATIVE						
	4700051-25FW	59	02	8.00	02	1000	250				575	Y	590335.	1165426	GW	08	PROPOSED AS OF LAST REVIEW DATE FEB./88.						
	4700051-29FW	59	02	8.00	02	1000	250				575	Y	590355.	1162728	GW	08	"						
	4700051-33FW	59	02	8.00	02	1000	250				575	Y	590426.	1160157	GW	08	"						
	4700051-38FW	59	02	8.00	02	1000	250				575	Y	590415.	1156983	GW	08	"						
	4700051-16DW	59	02	8.00	02	1000	250				575	Y	595761.	1171318	GW	08	"						
	4700051-21DW	59	02	8.00	02	1000	250				575	Y	595848.	1167930	GW	08	"						
	4700051-25DW	59	02	8.00	02	1000	250				575	Y	595778.	1165492	GW	08	"						
	4700051-29DW	59	02	8.00	02	1000	250				575	Y	595870.	1162849	GW	08	"						
	4700051-33DW	59	02	8.00	02	1000	250				575	Y	595676.	1160018	GW	08	"						
	4700051-38DW	59	02	8.00	02	1000	250				575	Y	595639.	1156739	GW	08	"						
	4700051-16BW	59	02	8.00	02	1000	250				575	Y	601054.	1170745	GW	08	"						
	4700051-21BW	59	02	8.00	02	1000	250				575	Y	601184.	1167845	GW	08	"						
	4700051-25BW	59	02	8.00	02	1000	250				575	Y	600989.	1165418	GW	08	"						
	4700051-29BW	59	02	8.00	02	1000	250				575	Y	600941.	1162776	GW	08	"						
	4700051-33BW	59	02	8.00	02	1000	250				575	Y	601049.	1160406	GW	08	"						
	4700051-38BW	59	02	8.00	02	1000	250				575	Y	601062.	1156828	GW	08	"						
4700055		654	02	8.00	02	47	2/77	AG	BOTH		2	2	FORT DRUM C-15 GROVES					08	13	0.8	12	360	.5
	4700055-1	59	02	6.00	02	900					500	N	581439.	1160561	GW	08	NO TABLE A						
	4700055-2	59	02	8.00	02	1000					800	N	581412.	1157735	GW	08	PERMIT EXPIRED						
	4700055-1	59	02							2WAY	5000	N	581612.	1157735	SW	5	NO PUMP DATA,loc.estim.						
	4700055-2	59	02							2WAY	5000	N	581612.	1157735	SW	5	REC.BODY C-25,loc.est.						
4700059		37.0	03	0.16	01	47	2/79	PWS	GW		2	0	STATE OF FLORIDA, ECKERD FOUNDATION					08					
	4700059-15-6D	80	01	12.00	02	750	600	30	02		200	N	558917.	1079423	GW	08	SMALL POTATOES						
	4700059-15-6S	80	01	12.00	02	500	100	30	02		90	N	559294.	1079903	GW	08							
4700060		525.6	03	43.20	02	47	2/79	AG	GW		1	0	J.S. POWELL JR. R.O.POWELL					08	20	.8	12	640	.5
	4700060-1	57	01	12.00	02	1000	?	?			1000	N			GW	08	NO PUMP INFO AVAIL.						
4700068		3578.68	03	443	02	47	2/82	AG	BOTH		13		WILLIAMSON CATTLE CO.					08	20	.8	12	2931	.5
4700068																		08	13	.8	12	357	.5
4700068																		08	13	.8	12	347	.85
	4700068-1	80	01	6.00	02	600	450				200	N	561484.	1087821	GW	08	PUMPS ON ONLY 2 WELLS						
	4700068-12	80	01	6.00	02	1200	500				100	N	562780.	1084285	GW	08							
	4700068-13	80	01	6.00	02	990	500				300	N	562796.	1083623	GW	08	FORMERLY 1200', BACKFILLED TO 990'						
	4700068-2	80	01	6.00	02	1078	500				300	N	567468.	1080338	GW	08							
	4700068-3	80	01	8.00	02	998	440				150	N	569890.	1083044	GW	08							
	4700068-4	80	01	8.00	02	1100	500				500	N	570969.	1087272	GW	08	MANY WELLS WERE BACKFILLED						
	4700068-5	80	01	8.00	02	1100	500				500	N	569105.	1079123	GW	08	TO IMPROVE WATER QUALITY						
	4700068-14	80	01	8.00	02	940	440				450	N	570982.	1079890	GW	08							
	4700068-15	80	01	8.00	02	990	500				450	N	572869.	1078283	GW	08	FORMERLY 1258' BACKFILLED						
	4700068-16	80	01	8.00	02	990	500				500	N	571974.	1076592	GW	08	FORMERLY 1100' "						
	4700068-17	80	01	8.00	02	990	500				500	N	572331.	1075239	GW	08	FORMERLY 1281' "						
	4700068-18	80	01	8.00	02	990	500				450	N	570051.	1077560	GW	08	FORMERLY 1100' "						
	4700068-20	80	01	8.00	02	905	554	120	02		800	N	571002.	1076994	GW	08							
	4700068-22	80	01	10.00	02	990	548	120	02		1200	N	570206.	1081989	GW	08	THIS WELL COMPLETED 2/88.						
4700081		582.19	03	83.86	02	47	6/83	AG	BOTH		2	2	PURSELY,INC.					08	15	.8	12	510	.75
	4700081-W1	80	02	10.00	02	800	400	-38	01		750	N	573548.	1097408	GW	08	WELLS PROPOSED						
	4700081-W2	80	02	10.00	02	800	400	-38	01		750	N	579143.	1094368	GW	08	"						

	4700081-P1		80	02		02			SUB	01	750	N	579889.	1097140	SW	5	PUMPING FROM							
	4700081-P2		80	02		02			SUB	01	750	N	578452.	1094209	SW	5	ON SITE PONDS							
4700179		96.5		03		02	47	7/88	AG	GW	3	0	LARSON DAIRY, INC.				LIVESTOCK SUPPLY	BOTH			12			
	4700179-1		69	01	6.00	02	1000	420	110	02	200	N	570389.	1129955	GW	08	NO MAX NO., BLANEY DATA:USE FOR CATTLE DRINKING							
	4700179-2		69	01	4.00	02	112	72	84	02	35	N	571448.	1130831	GW	02	WATER							
	4700179-3		69	02	6.00	02	112	60	100	02	200	N	570497.	1129642	GW	02								
4700256		275.97		03	101.57	02	47	9/89	AG	BOTH	5	6	CRACKER TRAIL GROVES					BOTH	13	1.5	11	600	.85	
	4700256-1		59	02	10.00	02	100	50		02	300	N	606577.	1155836	GW	02	THE WHOLE PROJECT IS PROPOSED							
	4700256-2		59	02	10.00	02	100	50		02	300	N	606667.	1154831	GW	02	PERMIT REVIEWED 10/12/89.							
	4700256-3		59	02	10.00	02	100	50		02	300	N	606794.	1153451	GW	02								
	4700256-4		59	02	10.00	02	100	50		02	300	N	606914.	1152174	GW	02	THERE'S 1 FLORIDAN,2 SURFICIAL, 6 SURF.PUMPS							
	4700256-5		59	02	12.00	02	1000	500			1200	N	603459.	1155039	GW	08	HERE							
	4700256-P1		59	02		02					1000		606775.	1155539	SW	5	Capacities purely a guess							
	4700256-P2		59	02		02					1000		606853.	1154629	SW	5	"""							
	4700256-P3		59	02		02					1000		606965.	1153184	SW	5	"""							
	4700256-P4		59	02		02					1000		607069.	1151814	SW	5	"""							
	4700256-P11		59	02		02					1000		603815.	1156010	SW	5	"""							
	4700256-P12		59	02		02					1000		603838.	1155252	SW	5	"""							
4700261		44.16		03	16.25	02	47	450	AG	GW	2	0	ROBERT N. & FLORENCE T. LINZ					08	13	.8	12	96	.85	
	4700261-1		69	02	10	02	1000	450	140	02	1050	N	549985.	1112183	GW	08	ALL PROPOSED							
	4700261-2		69	02	10	02	1000	450	140	02	1050	N	550745.	1112216	GW	08								

Indian River County

Water Use Spreadsheets

Indian River County

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LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
===============================================================================================================
PERMIT   AN.              ALL  MAX   NO.     DATE USE SRC.NO.   SW
NO.      ALL.             UNT  NO.   UTS. CO ISS. TYPE   WLS.  PMPS   OWNER
=====================================================================================================================================
                                                                                  CO  PERMIT NO.  DEV NO.  AQ  CROP SOIL  RAIN   IRR    IRR
                                                                                                               TYPE TYPE   ST    ACRES  EFF
=====================================================================================================================================
LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
===============================================================================================================
PERMIT   FACILITY    QUAD.  WELL    DPTH          PMP PUMP PUMP
NO.      NUMBER      NO. STSDIA.    CODE  TD   CD INT TYPE CAP. MTR?   ROW  COLUMN SRC AQ.  COMMENTS       S / T / R
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Appendix 6

Indian River Water Use Spreadsheets

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6100004          93.0    03                   61 5/77 AG   GW     1   0 FRED W. TUERK TRUST
       6100004-1         01  10.00  02 1100                03  1800          4      16 GW  08                   11/33/37      08  13  0.8  31    320 0.50
6100006          39.6    03                   61 5/77  AG  GW     1    WILLIAM AKINS
       6100006-1      60 01   8.00  02                          800          4      17 GW  08                   12/33/37      08  13  0.8  31     93 0.50
6100007         312.0    03                61   6/81  AG  GW      3    ADAMS RANCH INC.
       6100007-1         01  10.00  02 1000                     750          4       4 GW  08                                 08  20  0.4  31   1200 0.50
       6100007-2         01  10.00  02 1000                     750          6       2 GW  08   7-13,17-20,24,28-30/33/34,35
       6100007-3         01  10.00  02 1000                     750          5       1 GW  08   7-13,17-20,24,28-30/33/34,35
                                                                                                7-13,17-20,24,28-30/33/34,35
6100008           5.1    03                   61 5/77  AG  GW     2    WILLIAM E. HARRIS
       6100008-1      61 01   4.00  02  700                     160          5      26 GW  08                                 08  13  0.8  31     20 0.50
       6100008-2      61 01   4.00  02                          160          5      26 GW  08   16/33/39
                                                                                                16/33/39
6100009          11.8    03                   61 5/77  AG  GW     1    JACKSON BROTHERS GROVES
       6100009-1      61 01   6.00  02                          360          5      24 GW  08                                 08  13  0.8  31     40 0.50
                                                                                                18/33/39
6100011          13.3    03                   61 5/77  AG  GW     3    RUTH HALLSTROM
       6100011-1      61 01   5.00  02                          250          7      30 GW  08                                 08  13  0.4  31     55 0.75
       6100011-2      61 01   5.00  02                          250          7      30 GW  08   30,31/33/40
       6100011-3      61 01   5.00  02                          250          8      30 GW  08   30,31/33/40
                                                                                                30,31/33/40
6100021                   0                   61 2/88 AG          1    SIDNEY N. RANACK JR.
       6100021-1             12.00  03                         1100          7      16 GW  08 NO ANNUAL ALLOC. ON PERMIT      08  13  0.8  31     77 0.85
6100024          11.9    03                   61 5/77  AG  GW     1    J. L. MULLIS
       6100024-1         01  10.00  02 1000                     480          7      24 GW  08                   30/33/39      08  13  0.8  31     40 0.50
6100025          11.9    03                   61 5/77  AG  GW     5    PERCY N. OR RUBY THORNTON
       6100025-1         01   6.00  02  900                     250          6      27 GW  08                   22/33/39      08  13  0.8  31     38 0.50
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	6100025-2		01	6.00	02	900				200	6	27	GW	08		22/33/39						
	6100025-3		01	6.00	02	900				250	6	27	GW	08		22/33/39						
	6100025-4		01	6.00	02	---				125	6	27	GW	08		22/33/39						
	6100025-5		01	6.00	02	---				125	6	27	GW	08		22/33/39						
6100029		11.2	03				61 6/77	AG	GW	4	C. E. DUNCAN											
	6100029-1		01	4.00	02	700				100	3	26	GW	08		04/33/39	08	13	0.4	31	30	0.50
	6100029-2		01	4.00	02	700				100	3	26	GW	08		04/33/39						
	6100029-3		01	4.00	02	700				75	3	26	GW	08		04/33/39						
	6100029-4		01	4.00	02	700				45	3	26	GW	08		04/33/39						
6100032		12.2	03				61 6/77	AG	GW	2	EDSALL GROVE SERVICE											
	6100032-1		61 01	4.00	02					100	3	29	GW	08		00/33/39	08	13	0.4	31	40	0.50
	6100032-2		61 01	4.00	02					100	3	29	GW	08		00/33/39						
6100033		6.1	03				61 6/77	AG	GW	2	EDSALL GROVE SERVICE											
	6100033-1		61 01	4.00	02					100	8	2	GW	08		33/33/35	08	13	0.8	31	20	0.50
	6100033-2		61 01	4.00	02					100	8	2	GW	08		33/33/35						
6100034		23.6	03				61 6/77	AG	GW	1	EDSALL GROVE SERVICE											
	6100034-1		01	10.00	02					960	3	19	GW	08		05/33/38	08	13	0.8	31	80	0.50
	6100034-P		01							10000	3	19	SW	99								
6100038		23.6	03				61 6/77	AG	SW	1	EDSALL GROVE SERVICE											
	6100034-P1		60 01										SW	99		22/33/38	08	13			80	0.50
6100039		11.8	03				61 6/77	AG	SW	1	EDSALL GROVE SERVICE											
	6100039-P1		60 01										SW	99		27/33/38	99	13			40	0.50
6100040		10.3	03				61 6/77	AG	SW	1	EDSALL GROVE SERVICE											
	6100040-P1		60 01										SW	99		27/33/36	99	13			35	0.50
6100041		6.2	03				61 6/77	AG	GW	3	EDSALL GROVE SERVICE											
	6100041-1		61 01	4.00	02					100	7	26	GW	08	CAP EST.	28/33/39	08	13	0.8	31	20	0.50
	6100041-2		61 01	4.00	02					100	7	26	GW	08	CAP EST.	28/33/39						
	6100041-3		61 01	4.00	02					100	7	26	GW	08	CAP EST.	28/33/39						
6100042		15.3	03				61 6/77	AG	GW	2	1 R.S. EDSALL											
	6100042-1		61 01	4.00	02					300	4	24	GW	08		07/33/39	08	13	0.8	31	50	0.50
	6100042-2		61 01	4.00	02					300	4	24	GW	08		07/33/39						
6100043		24.6	03				61 6/77	AG	GW	4	R.S. EDSALL											
	6100043-1		61 01	8.00	02					575	6	26	GW	08	CAP EST.	21/33/39	08	13	0.8	31	80	0.50
	6100043-2		61 01	8.00	02					575	6	26	GW	08	"	21/33/39						
	6100043-3		61 01	8.00	02					575	6	26	GW	08	"	21/33/39						
	6100043-4		61 01	8.00	02					575	6	26	GW	08	"	21/33/39						
6100044		10.8	03				61 6/77	AG	SW		1 R.S. EDSALL											
	6100044-P1		61 01		02						5	22	SW	99		14/33/38	02	13	0.8	31	35	0.50
6100045		245.9	03				61 6/77	AG	GW	4	G. W. GAIORY/DEAN C. ROW											
	6100045-1		61 01	4.00	02	1000				159	5	23	GW	08		13/33/38	02	20	0.8	31	305	0.50

LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)

PERMIT NO. | AN. ALL. | ALL UNIT | MAX NO. | NO. UTS. | CO | DATE ISS. | USE TYPE | SRC.NO. WLS. | SW PMPS | OWNER | CO | PERMIT NO. | DEV NO. | AQ | CROP TYPE | SOIL TYPE | RAIN ST | IRR ACRES | IRR EFF

LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)

PERMIT NO. | FACILITY NUMBER | QUAD. NO. | WELL STSDIA. | DPTH CODE | TD | CD | PMP INT | PUMP TYPE | PUMP CAP. | MTR? | ROW | COLUMN | SRC | AQ. | COMMENTS | S / T / R

	6100045-2		61	01	4.00	02	1000					362	5	23	GW	08		13/33/38						
	6100045-3		61	01	4.00	02	1000					159	5	23	GW	08		13/33/38						
	6100045-4		61	01	4.00	02	1000					362	5	23	GW	08		13/33/38						
6100047		3.2	03					61	6/77	AG	GW	1	OWEN & EDNA JOHNSON											
	6100047-1		61	01	6.00	02	800					350	5	26	GW	08		16/33/39	08	13	0.8	31	9	0.50
6100051		25.7	03					61	6/77	AG	GW	6	KENNEDY GROVES INC.											
	6100051-1			01	4.00	02						100	3	23	GW	08	CAP.EST.	01/33/38	08	13	0.8	31	90	0.50
	6100051-2			01	4.00	02						100	3	23	GW	08	"	01/33/38						
	6100051-3			01	4.00	02						100	3	23	GW	08	"	01/33/38						
	6100051-4			01	4.00	02						100	3	23	GW	08	"	01/33/38						
	6100051-5			01	4.00	02						100	3	23	GW	08	"	01/33/38						
6100054		20.7	03					61	2/85	AG	GW	1	ROBERT LANGDALE											
	6100054-1		60	01	8.00	02						575	6	21	GW	08		22 33 38	08	13	0.8	31	80	0.50
6100055		23.7	03					61	6/77	AG	GW	2	THOMAS & MARY BARNES											
	6100055-1		60	01	5.00	02	600					125	4	20	GW	08		09/33/38	08	13	0.8	31	160	0.50
	6100055-2		60	01	5.00	02	900					240	4	20	GW	08		09/33/38						
6100067		28.2	03					61	6/77	AG	GW	4	CHEMAGO											
	6100067-1			01	4.00	02	400					50	3	25	GW	08		05,08/33/39	08	13	0.8	31	96	0.50
	6100067-2			01	4.00	02	400					50	3	25	GW	08		05,08/33/39						
	6100067-3			01	4.00	02	400					50	4	25	GW	08		05,08/33/39						
	6100067-4			01	4.00	02	400					30	4	25	GW	08		05,08/33/39						
6100068		7.1	03					61	6/77	AG	GW	3	VICTORIS CALDWELL											
	6100068-1		61	01	5.00	02	700					170	8	27	GW	08		34/33/39	08	13	0.8	31	19	0.50
	6100068-2		61	01	5.00	02	700					170	8	27	GW	08		34/33/39						
	6100068-3		61	01	5.00	02	700					170	8	27	GW	08		34/33/39						
6100069		12.8	03					61	6/77	AG	GW	1	TOM & PENNY CLARK											
	6100069-1		61	01	5.00	02						250	7	24	GW	08	CAP. EST.	30/33/39	08	13	0.8	31	40	0.50

6100073	479.7	03				61 6/77 AG GW	2	BECKER GROVES			08	13	0.8	31	1280 0.50
6100073-1		60 01	10.00	02	968		900	4	16 GW 08	11,12,13,14/33/37					
6100073-2		60 01	10.00	02	1050		900	5	17 GW 08	11,12,13,14/33/37					
6100076	7.1	03				61 6/77 AG GW	1	COL. CHARLES R. CARTER			08	13	0.8	31	18 0.50
6100076-1		60 01	5.00	02			300	5	20 GW 08	16/33/38					
6100077	42.1	03				11/85 AG GW	3	BUENA VISTA GROVES			08	13	0.8	31	190 0.50
6100077-1		61 01					200	8	24 GW 08 CAP.EST.	31/33/39					
6100077-2		61 01					200	8	24 GW 08 GUESS						
6100077-3		61 01					200	8	24 GW 08 "						
6100078	41.0	03				61 6/77 AG GW	3	D. S. BEATY			08	13	0.8	31	120 0.50
6100078-1		01	10.00	02	1000		750	3	19 GW 08	04,05/33/38					
6100078-2		01	10.00	02	1000		300	3	19 GW 08	04,05/33/38					
6100078-3		01	10.00	02	1000		400	3	20 GW 08	04,05/33/38					
6100079	15.0	03				61 6/77 AG GW	3	D. S. BEATY			08	13	0.8	31	40 0.50
6100079-1		61 01	4.00	02			125	4	23 GW 08	12/33/38					
6100079-2		61 01	4.00	02			100	4	23 GW 08	12/33/38					
6100079-3		61 01	4.00	02			100	4	23 GW 08	12/33/38					
6100082	13.1	03				61 6/77 AG GW	4	RAY CLONTZ			08	13	0.8	31	35 0.50
6100082-1		01	5.00	02	400		230	3	25 GW 08	05,08/33/39					
6100082-2		01	5.00	02	400		135	3	25 GW 08	05,08/33/39					
6100082-3		01	5.00	02	400		135	4	25 GW 08	05,08/33/39					
6100082-4		01	5.00	02	400		135	4	25 GW 08	05,08/33/39					
6100083	95.7	03				61 5/88 AG GW	5	BANYAN GROVE INC.			08	13	0.8	31	185 0.85
6100083-A		60 01	6.00				250	6	22 GW 08 CAP.EST.	23 33 38					
6100083-B		60 01	4.00				100	6	22 GW 08 CAP.EST.						
6100083-C		60 01	6.00				250	6	22 GW 08 CAP.EST.						
6100083-D		60 01	4.00				100	6	22 GW 08 CAP.EST.						
6100083-E		60 02	10.00				400	6	22 GW 08 CAP.EST.						
6100083-F		60 02	8.00	02	750		400	6	22 GW 08 CAP.EST.						
6100085	45.8	03				61 6/77 AG GW	2	E. W. MATHEWS			08	13	0.8	31	100 0.50
6100085-1		59 01	4.00	02	300		75	4	14 GW 08	09/33/37					
6100085-2		59 01	4.00	02	300		305	4	14 GW 08	09/33/37					
6100086	29.2	03				61 7/78 AG GW	2	GRAVES BROTHERS COMPANY			08	13	0.8	31	200 0.50
6100086-1		60 01	6.00	02	500		360	7	15 GW 08	26,27/33/37					
6100086-2		60 01	6.00	02	500		360	7	16 GW 08	26,27/33/37					
6100089	3980.0	03			01	6/89 PWS GW		CITY OF VERO BEACH				13			185
6100089-A		01	12.00	02	112	02	500		GW 02						
6100089-B		01	10.00	02	80	02	200		GW 02						
6100089-C		01	10.00	02	80	02	250		GW 02						
6100089-D		01	10.00	02	80	02	290		GW 02						
6100089-E		01	10.00	02	570	02	1200	727705. 1060642	GW 08						
6100089-F		01	10.00	02	82	02	450		GW 02						
6100089-G		01	12.00	02	112	02	400		GW 02						

LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)

PERMIT NO. | AN. ALL. | ALL UNT | MAX NO. | NO. UTS. | CO | DATE ISS. | USE TYPE | SRC. | NO. WLS. | SW PMPS | OWNER | CO | PERMIT NO. | DEV NO. | AQ | CROP TYPE | SOIL TYPE | RAIN ST | IRR ACRES | IRR EFF

LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)

PERMIT NO. | FACILITY NUMBER | QUAD. NO. | WELL STS | DIA. | DPTH CODE | TD | PMP CD | PUMP INT | PUMP TYPE | PUMP CAP. | MTR? | ROW | COLUMN | SRC | AQ. | COMMENTS | S / T / R

PERMIT NO.	FACILITY NUMBER	AN. ALL.	ALL UNT / QUAD. NO.	WELL STS	DIA.	DPTH CODE	TD	CO	DATE ISS.	USE TYPE	SRC.	PUMP TYPE	PUMP CAP. / NO. WLS.	OWNER / ROW	COLUMN	SRC	AQ.	COMMENTS	S / T / R	AQ	CROP TYPE	SOIL TYPE	RAIN ST	IRR ACRES	IRR EFF
	6100089-H			01	10.00	02	102					02	440			GW	02								
	6100089-I			01	12.00	02	127					02	820			GW	02								
	6100089-J			01	12.00	02	105					02	500			GW	02								
	6100089-K			01	12.00	02	100					02	670			GW	02								
	6100089-L			01	12.00	02	122					02	500			GW	02								
	6100089-M			01	12.00	02	130					02	300			GW	02								
	6100089-N			01	12.00	02	688					02	1100	727705.	1060642	GW	08								
	6100089-O			01	12.00	02	90					02	600			GW	02								
	6100089-P			01	12.00	02	93					02	600			GW	02								
	6100089-Q			01	10.00	02	90					02	400			GW	02								
	6100089-R			01	10.00	02	130					02	700			GW	02								
	6100089-S				12.00	02	135					02	800			GW	02								
	6100089-T			01	12.00	02	105					02	300			GW	02								
	6100089-U			01	12.00	02	677					02	100	727705.	1060642	GW	08								
	6100089-V			01	12.00	02	130					02	800			GW	02								
	6100089-W			01	12.00	02	130					02	450			GW	02								
	6100089-X			01	12.00	02	15					02	600			GW	02								
	6100089-Y			01	12.00	02	130					02	525			GW	02								
	6100089-Z			01	12.00	02	140					02	300			GW	02								
	6100089-AA			01	12.00	02	120					02	500			GW	02								
	6100089-AB			01	12.00	02	125					02	690			GW	02								
	6100089-AC			01	12.00	02	125					02	690			GW	02								
	6100089-AD			01	12.00	02	570					02	1200	727705.	1060642	GW	08								
	6100089-AE			01	12.00	02	78					02	450			GW	02								
	6100089-AF			01	12.00	02	80					02	350			GW	02								
	6100089-AG			01	12.00	02	75					02	350			GW	02								
6100091		62.9	03					61	7/79	AG	GW		2	PLATO KIRBY						08	13	0.8	31	193	0.50
	6100091-1		61	01	8.00	02	1000						900	6	25	GW	08		20/33/39						
	6100091-2		61	01	8.00	02	31						100	6	25	GW	02		20/33/39						
6100093		58.4	03					61	4/87	PWS	GW		2	WILDER CORP											
	6100093-1			01	8.00	02	900					03	200	3	24	GW	08	.16MGD							
	6100093-2			01	8.00	02	900					03	200	3	24	GW	08								

6100094		101.2		03				61 1/80	AG	BOTH	2	CURTIS MUSGROVE JR.						08	13	0.8	31	80	0.50
	6100094-1			01	6.00	02					610	4	21	GW	08		10/33/38						
	6100094-2			01	6.00	02					610	4	21	GW	08		10/33/38						
6100095		54.8		03				61 4/80	COM	GW	2	TROPIC VILLAS NORTH						08					
	610095-1		61	01	8.00	02	660				125	4	23	GW	08	POTABLE WATER USE	12/33/39						
	610095-2		61	01	8.00	02	660				125	4	23	GW	08	.15 MGD	12/33/39						
6100096		308.0		03				8/85	AG	GW	5	LYKES CITRUS MANAGEMENT DIV.						08	13	0.8	31	1352	0.85
	6100096-2				8.00	02					698	3	18	GW	08								
	6100096-3				8.00	02					815	3	19	GW	08								
	6100096-4				8.00	02	1100				605	4	18	GW	08								
	6100096-5				8.00	02					657	4	19	GW	08								
	6100096-6				8.00	02					1027	4	18	GW	08								
6100097		60.4		03				61 8/85	AG	GW	1	LYKES CITRUS MANAGEMENT DIV.						08	13	0.8	31	265	.85
	6100097-1		60		8.00	02					750	6	19	GW	08		20 33 38						
6100098		50.7		03				61 7/88	IND	BOTH	4	OCEAN SPARY CRANBERRIES						BOTH	13	0.8	31	80	
	6100098-A		61	01		02	1250				800	7	23	GW	08	1.074MGD	25 33 38						
	6100098-B		61	01		02	1250				800	7	23	GW	08								
	6100098-C		61	01		02	53				55	7	23	GW	02								
	6100098-D		61	01		02	53				140	7	23	GW	02								
6100099		120.5		03				61 12/81	PWS	GW	3	FLA. ATLANTIC ASSOCIATES						08					
	6100099-1		61	01	8.00	02	700				150	4	22	GW	08	.1 MGD	11/33/38						
	6100099-2		61	01	8.00	02	700				150	4	22	GW	08		11/33/38						
	6100099-3		61	02	8.00	02	700				150	4	22	GW	08		11/33/38						
5100100		216.6		03				61 9/80	AG	GW	1	1 S. N. S. GROVES						08	13	0.8	31	480	.85
	6100100-1		60	01	10.00	02	800				1000	6	25	GW	08		20/33/39						
	6100100-2		60	02	10.00	02	800				1000	6	25	GW	08		20/33/39						
6100101		152.0		03				61 1/86	AG	GW	3	BELAIRE GROVES JOINT VENTURE						08	13	0.8	31	1760	.85
	6100101-1		60	01	14.00	02	800				2600	5	19	GW	08		16,17,20,21/33/38						
	6100101-2		60	01	14.00	02	800				2600	6	20	GW	08								
	6100101-3		60	01	14.00	02	800				1000	6	19	GW	08								
6100105		137.0		03				61 11/85	AG	GW	1	BELAIRE GROVES JOINT VENTURE						08	13	0.8	31	300	.85
	6100105-1		60	01	8.00	02	1104				1100	5	17	GW	08		13/33/37						
6100106		1551.0		03				61 6/81	PWS	GW	2	INDIAN RIVER COUNTY						08					
	6100106-1		61	02	12.00	02					1200	6	28	GW	08		23/33/39						
	6100106-2		61	02	12.00	02					1200	6	28	GW	08		23/33/39						
6100107		97.8		03				61 6/81	AG	GW	2	PACKERS OF INDIAN RIVER INC.						08	13	0.8	31	200	0.85
	61000107-1			02	10.00	02	500				1700	3	17	GW	08		01/33/37						
	61000107-2			02	10.00	02	500				1700	3	17	GW	08		01/33/37						
6100108		118.3		03				61 10/86	AG	GW	2	INDIAN RIVER CITRUS MGT. INC.						08	13	0.8	31	200	0.85
	6100108-1		60	01	6.00	02					250	7	16	GW	08	EST.CAP.	26/33/37						
	6100108-2		60	01	6.00	02					250	7	16	GW	08	"								

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LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
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PERMIT   AN.            ALL  MAX   NO.    DATE USE SRC.NO.  SW
NO.      ALL.           UNT  NO.   UTS. CO ISS. TYPE  WLS.  PMPS  OWNER
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                                                                          CO  PERMIT NO.  DEV NO.  AQ  CROP SOIL  RAIN   IRR   IRR
                                                                                                       TYPE TYPE   ST    ACRES EFF
LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
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PERMIT   FACILITY     QUAD.  WELL     DPTH          PMP PUMP PUMP
NO.      NUMBER       NO. STSDIA.     CODE  TD   CD INT TYPE CAP. MTR?   ROW  COLUMN SRC AQ.  COMMENTS        S / T / R
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6100109       119.9     03                  61 2/87  AG  GW    2    FRED TUERK
      6100109-1         01          02                       500         4      16 GW  08 EST.CAP           11/33/37       08   13   0.8   31    312 0.50
      6100109-2         01          02                       500         4      16 GW  08 .707MGD,EST.CAP   11/33/37
6100110        45.0     03                  61 12/86 AG  GW    1    STEWART B. IGEHART 1990 TRUST
      6100110-1    60   01   8.00  02 1100                   900         7      21 GW  08                   27/33/38       08   13   0.8   31    138 0.85
6100111        33.1     03                  61 6/86  AG  GW    2    OTHMAR M. ZIGRANG
      6100111-1    61   01   6.00  02 500                    250         7      25 GW  08 EST.CAP.          29/33/39       08   13   0.8   31     40 0.50
      6100111-2    61   01   6.00  02 1000                   250         7      25 GW  08 "                 29/33/39
6100112        46.6     03                  61 1/86  AG  GW    1    RANDY SEXTON SR.
      6100112-1    61   01   8.00  02 700                    889         7      26 GW  08                   28/33/39       08   13   0.8   31     90 0.85
6100113        67.2     03                  61 11/85 AG  GW    3    RANDY SEXTON SR.
      6100113-1    61   01   6.00  02 700                    558         6      22 GW  08                   23/33/38       08   13   0.8   31    120 0.50
      6100113-2    61   01   6.00  02 700                    343         6      22 GW  08                   23/33/38
      6100113-3    61   01   6.00  02 700                    558         6      22 GW  08                   23/33/38
6100114        11.6     03                  61 11/86 AG  GW    1    CAMELA GROVES INC
      6100114-1    60        8.00                            575         6      22 GW  08 FL.:20%OF TOTAL   23/33/38       08   13   0.8   31     14 0.50
6100115        11.5     03                  61 11/85 AG  GW    3    ISABELE M. BEUTTELL
      6100115-1         01   6.00                            250         3      26 GW  08                   04/33/39       08   13   0.8   31     25 0.85
      6100115-2         01   6.00                            250         3      26 GW  08                   04/33/39
      6100115-3         01   6.00                            250         3      26 GW  08                   04/33/39
6100120        83.0     03                  61 11/81 AG  GW    4    VALERIA NEARNDON
      6100120-1    61   01   4.00  02  820                   150         4      23 GW  08                   12/33/38       08   20   0.8   31    120 0.50
      6100120-2    61   01   4.00  02                         45         4      23 GW  08                   12/33/38
      6100120-3    61   01   4.00  02                         85         4      23 GW  08                   12/33/38
      6100120-4    61   01   4.00  02  893                    40         4      23 GW  08                   12/33/38
6100122        48.4     03                  61 11/81 AG  GW    1    JOHN R. & BARBARA TRIPSON
      6100122-1    61   01   6.00  02                        250         3      26 GW  08                   34/33/39       08   20   0.8   31    105 0.50
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6100123	142.4		03				61	12/88	AG	BOTH	4		VERO BEACH COUNTRY CLUB						08	15	0.4	31	130	0.75
6100123-1			01								500		2	29	GW	08	EST.CAP.	36,01/32,33/39						
6100123-2			01								500		2	29	GW	08	"	36,01/32,33/39						
6100123-3			01								500		3	29	GW	08	"	36,01/32,33/39						
6100123-4			01								500		3	29	GW	08	"	36,01/32,33/39						
6100123-5			01								10000		3	29	SW	99	"							
6100124							61	11/81					AQUATIC FISHERIES					04/33/39 (FISH FARM)						
6100125	40.0		03				61	2/86	AG	GW	4	1	INTERNATIONAL CITRUS CORP.						08	13	0.8	31	320	0.85
6100125-1		61	01	8.00	02	1000					800		6	15	GW	08		22/33/37						
6100125-2		61	01	8.00	02	1200					800		6	15	GW	08		22/33/37						
6100125-3		61	01	8.00	02	1200					800		6	15	GW	08	EST.CAP	22/33/37						
6100125-4		61	01	8.00	02	1200					800		6	15	GW	08	"	22/33/37						
													6	15										
6100127	182.5		03					5/87	IND	GW	1		HERCULES INC.						08				50	
6100127-1		61		42.00	02	65									GW	02		25/33/38						
6100128	121.0		03				61	6/85	PWS	GW	3		GENERAL DEVELOPMENT UTILITIES						02				962	
6100128-1		61	01	6.00	02	125					150				GW	02								
6100128-2		61	01	6.00	02	125					125				GW	02								
6100128-3		61	01	6.00	02	125					350		8	30	GW	02		31,32,35,36/33/39,40						
6100129	28.8		03				61	12/81	IND	GW	4		CITY OF VERO BEACH POWER PLANT						08					
6100129-1			01	8.00	02	800					500		3	28	GW	08	.079 MGD	02/33/39						
6100129-2			01	8.00	02	800					500		3	28	GW	08		02/33/39						
6100129-3			01	8.00	02	950					500		3	28	GW	08		02/33/39						
6100129-4			01	8.00	02	1000					500		3	28	GW	08		02/33/39						
6100131	42.4		03				61	12/81	AG	BOTH	2		H. W. HOUCK						08	13	0.8	31	40	0.50
6100131-1		61	01	4.00	02						100		5	25	GW	08	EST.CAP	17/33/39						
6100131-2		61	01	4.00	02						100		5	25	GW	08	"	17/33/39						
6100132	36.0		03				61	2/86	AG	GW	4		CARMEN D. RUBIO						08	13	0.8	31	70	0.85
6100132-1		61	01	10.00	02	900					310		8	25	GW	08	EST.CAP	32/33/39						
6100132-2		61	01	10.00	02	900					310		8	25	GW	08								
6100132-3		61	01	10.00	02	900					310		8	25	GW	08	EST.CAP							
6100132-4		61	01	10.00	02	900					310		8	25	GW	08	"							
6100137	56768.0		03				61	1/82	IND	BOTH	2		CITY OF VERO BEACH POWER PLANT						99					
6100137-1			01	10.00	02	1200					1500				GW	08	2.6 MGD	06/33/40						
6100137-2			01	10.00	02	1200					1500				GW	08	PUMPS FORM I.R.LAG.	06/33/40						
6100137	20.0		03				61	8/89	IND	BOTH	2	3	CITY OF VERO BEACH						08	13				
6100137-1			01		02						22000				SW	99		32/33/39						
6100137-2			01		02						30000				SW	99								
6100137-3			01		02						60000				SW	99								
6100138	38.9		03				61	6/86	AG	GW	3		VIRLYN GROVES INC.					35/33/39	08	20	0.4	31	240	0.50
6100138-1			01		02						500		8	28	GW	08	CAP.EST.							
6100138-1			01		02						500		8	28	GW	08	"							
6100138-1			01		02						500		8	28	GW	08	"							

LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)

PERMIT NO. | AN. ALL. | ALL UNT | MAX NO. | NO. UTS. | CD | DATE ISS. | USE TYPE | SRC. | NO. WLS. | SW PMPS | OWNER | CO | PERMIT NO. | DEV NO. | AQ | CROP TYPE | SOIL TYPE | RAIN ST | IRR ACRES | IRR EFF

LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)

PERMIT NO. | FACILITY NUMBER | QUAD. NO. | WELL STSDIA. | DPTH CODE | TD | CD | PMP INT | PUMP TYPE | PUMP CAP. | MTR? | ROW | COLUMN | SRC | AQ. | COMMENTS | S / T / R

6100139		32.4	03					61	2/85	AG	GW	1	EDWIN PRANGE						08	13	0.8	31	47	0.50
	6100139-1		61	01	9.00	02	1000					2600	4	14	GW	08		09/33/37						
6100140		42.0	03					61	12/85	AG	GW	1	ANAPA CORPORATION						08	13	0.8	31	125	0.85
	6100140-1		59	01	12.00	02						2600	4	14	GW	08		09/33/37						
6100143		74.5	03					61	3/87	AG	GW	1	BERNARD EDER						08	13	0.8	31	144	0.85
	6100143-1			01	10.00	02	900					2000	3	14	GW	08		04/33/37						
6100144		41.5	03					61	6/85	AG	GW	1	CHRISTFRIED PROCHNOW						08	13	0.8	31	133	0.50
	6100144-1				10.00	02	900					2000	4	14	GW	08								
6100146		37.9	03					61	5/86	PWS	GW	2	CHAMPION HOME COMMUNITIES						08					
	6100146-1				6.00	02	100					250	4	22	GW	02		11/33/38						
	6100146-2				6.00	02	100					250	4	22	GW	02		11/33/38						
6100147		82.0	03					61	5/82	AG	GW	2	THOMAS F. BATES						08	13	0.8	31	53	0.50
	6100147-1		61	01	5.00	02						250	6	27	GW	08		22/33/39						
	6100147-2		61	01	5.00	02						250	6	27	GW	08		22/33/39						
6100148								61	8/85	AG	GW	2	FRANK BATES GROVES INC.						08	13	0.8	31	80	0.50
	6100148-1			01	10.00							850	4	17	GW	08	CAP.EST.	12/33/37						
	6100148-2			01	10.00							850	4	17	GW	08	", FREEZE PROT.	12/33/37						
6100150		33.1	03					61	7/85	AG	GW	4	BYRON H. BEATY						08	13	0.8	31	40	0.50
	6100150-1		61	01	4.00		750					163	4	24	GW	08		07/33/39						
	6100150-2		61	01	4.00		750					131	4	24	GW	08		07/33/39						
	6100150-3		61	01	4.00		750					131	4	24	GW	08		07/33/39						
6100151		1194.0	03					61	8/85	AG	GW	8	EVANS PROPERTIES INC. ET AL						08	13	0.8	31	2105	0.50
	6100151-10B		59	01	12.00							1100	7	11	GW	08	CAP.EST.	25,36,30,31/33/36,37						
	6100151-10W		59	01	12.00							1100	7	11	GW	08	"	25,36,30,31/33/36,37						
	6100151-12A		59	01	12.00							1100	7	11	GW	08	"	25,36,30,31/33/36,37						
	6100151-12B		59	01	12.00							1100	7	11	GW	08	"	25,36,30,31/33/36,37						
	6100151-12W		59	01	12.00							1100	7	11	GW	08	"	25,36,30,31/33/36,37						

	6100151-14A		59 01	12.00				1100	7	11 GW 08 *	25,36,30,31/33/36,37					
	6100151-14B		59 01	12.00				1100	8	11 GW 08 *	25,36,30,31/33/36,37					
	6100151-14W		59 01	12.00				1100	8	11 GW 08 *	25,36,30,31/33/36,37					
	6100151-15A		59 01	12.00				1100	8	11 GW 08 *	25,36,30,31/33/36,37					
	6100151-15B		59 01	12.00				1100	8	11 GW 08 *	25,36,30,31/33/36,37					
	6100151-15W		59 01	12.00				1100	8	11 GW 08 *	25,36,30,31/33/36,37					
	6100151-2AE		59 01	12.00				1100	8	11 GW 08 *	25,36,30,31/33/36,37					
	6100151-2AW		59 01	12.00				1100	7	12 GW 08 *	25,36,30,31/33/36,37					
	6100151-2BE		59 01	12.00				1100	7	12 GW 08 *	25,36,30,31/33/36,37					
	6100151-4AE		59 01	12.00				1100	7	12 GW 08 *	25,36,30,31/33/36,37					
	6100151-4AW		59 01	12.00				1100	7	12 GW 08 *	25,36,30,31/33/36,37					
	6100151-4BE		59 01	12.00				1100	7	12 GW 08 *	25,36,30,31/33/36,37					
	6100151-6AE		59 01	12.00				1100	7	12 GW 08 *	25,36,30,31/33/36,37					
	6100151-6AW		59 01	12.00				1100	8	12 GW 08 *	25,36,30,31/33/36,37					
	6100151-6BE		59 01	12.00				1100	8	12 GW 08 *	25,36,30,31/33/36,37					
	6100151-8AE		59 01	12.00				1100	8	12 GW 08 *	25,36,30,31/33/36,37					
	6100151-8AW		59 01	12.00				1100	8	12 GW 08 *	25,36,30,31/33/36,37					
	6100161-8BE		59 01	12.00				1100	8	12 GW 08 *	25,36,30,31/33/36,37					
6100154		161.8	03				61 6/82 AG GW	3	N. ROSENTHAL/R. NEWMAN			08	13	0.8	31	160 0.50
	6100154-1		60 01	8.00	02	900		550	6	21 GW 08	22/33/38					
	6100154-2		60 01	8.00	02	850		300	6	21 GW 08	22/33/38					
	6100154-3		60 01	8.00	02	850		300	6	21 GW 08	22/33/38					
6100155		151.0	03				61 4/85 AG GW	5	NORMAN ROSENTHAL /ROBERT NEWMAN			08	13	0.8	31	240 0.50
	6100155-1		60 01	6.00	02	800		411	7	22 GW 08	26/33/38					
	6100155-2		60 01	6.00	02	700		200	7	22 GW 08	26/33/38					
	6100155-3		60 01	6.00	02	800		411	7	22 GW 08	26/33/38					
	6100155-4		60 01	6.00	02	366		366	7	22 GW 08	26/33/38					
	6100155-5		60 01	6.00	02	900		366	7	22 GW 08	26/33/38					
6100157		82.8	03				61 4/85 AG GW	3	WILLIAM L. NICHOLAS			08	13	0.8	31	120 0.50
	6100157-1		60 01	5.00				387	7	21 GW 08	27/33/38					
	6100157-2		60 01	5.00				323	7	21 GW 08	27/33/38					
	6100157-3		60 01	5.00				1098	7	21 GW 08	27/33/38					
6100158		28.9	03				61 6/82 AG GW	1	N. CASTELLVI			08	13	0.8	31	60 0.50
	6100158-1		61 01	6.00	02	240		320	7	25 GW 08	29/33/39					
6100162		13.5	03				61 7/87 AG GW	1	MEDI CITRUS INC.			08	13	0.8	31	40 0.50
	6100162-1		60 01	8.00	02	950		714	8	21 GW 08	34/33/38					
6100163		60.5	03				61 2/87 AG GW	4	JANICE NEWMAN ROSENTHAL			08	13	0.8	31	240 0.85
	6100163-1		60 01	6.00	02	800		300	8	21 GW 08	34/33/38					
	6100163-2		60 01	6.00	02	800		300	8	21 GW 08	34/33/38					
	6100163-3		60 01	6.00	02	900		600	8	21 GW 08	34/33/38					
	6100163-4		60 01	6.00	02	900		600	8	21 GW 08	34/33/38					
6100164		42.2	03				61 9/86 AG GW	2	L.O. GROVES			08	13	0.8	31	60 0.50
	6100164-1		60 01	8.00	02			575	3	21 GW 08 CAP.EST	03/33/38					
	6100164-2		60 01	8.00	02			575	3	21 GW 08 *	03/33/38					

LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)

PERMIT NO. | AN. ALL. | ALL UNT | MAX NO. | NO. UTS. | CO | DATE ISS. | USE TYPE | SRC. | NO. WLS. | SW PMPS | OWNER | CO | PERMIT NO. | DEV NO. | AQ | CROP TYPE | SOIL TYPE | RAIN ST | IRR ACRES | IRR EFF

LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)

PERMIT NO. | FACILITY NUMBER | QUAD. NO. | WELL STSDIA. | DPTH CODE | TD | CD | PMP INT | PUMP TYPE | PUMP CAP. | MTR? | ROW | COLUMN | SRC | AQ. | COMMENTS | S / T / R

PERMIT NO.	AN. ALL. / FACILITY NUMBER	QUAD. NO.	ALL UNT / WELL	MAX NO. / STSDIA.	NO. UTS. / DPTH CODE	TD	CO	DATE ISS.	USE	TYPE	NO. WLS. / PUMP CAP.	OWNER / ROW	COLUMN	SRC	AQ.	COMMENTS	S / T / R	AQ	CROP TYPE	SOIL TYPE	RAIN ST	IRR ACRES	IRR EFF
6100165	114.9		03				61	4/85	AG	GW	3	WILLIAM L. NICHOLAS						08	13	0.8	31	210	0.50
	6100165-1			8.00	02	900					627	3	20	GW	08		04,09/33/38						
	6100165-2			8.00	02	900					339	4	20	GW	08		04,09/33/38						
	6100165-3			8.00	02	900					393	4	20	GW	08		04,09/33/38						
6100166	11.8		03				61	8/86	AG	08	1	JOHN LINDSEY						08	13	0.8	31	40	0.85
	6100166-1	60	01	6.00	02	850					600	8	22	GW	08		35/33/38						
6100169	66.2		03				61	12/86	AG	GW	1	RANGE RINE GROVES INC.						08	13	0.8	31	80	0.50
	6100169-1		01	12.00	02	830					1100	3	23	GW	08		01/33/38						
6100180	34.6		03				61	7/82	AG	GW	2	C. REED KNIGHT						08	13	0.8	31	80	0.85
	6100180-1		01	6.00	02						412	4	23	GW	08		12/33/38						
	6100180-2		01	6.00	02						441	4	23	GW	08		12/33/38						
6100181	15.9		03				61	10/85	AG	GW	7	HENRY SCHACHT						08	13	0.8	31	66	0.50
	6100181-1	61	01	6.00	02						250	5	24	GW	08	CAP.EST.	18/33/39						
	6100181-2	61	01	6.00	02						250	5	24	GW	08	"	18/33/39						
	6100181-3	61	01	6.00	02						250	5	24	GW	08	"	18/33/39						
	6100181-4	61	01	6.00	02						250	5	24	GW	08	"	18/33/39						
	6100181-5	61	01	6.00	02						250	5	24	GW	08	"	18/33/39						
	6100181-6	61	01	6.00	02						250	5	24	GW	08	"	18/33/39						
	6100181-7	61	01	6.00	02						250	5	24	GW	08	"	18/33/39						
6100182	16.6		03				61	10/85	AG	GW	2	HENRY SCHACHT						08	13	0.8	31	20	0.50
	6100812-1	61	01	6.00	02						250	6	25	GW	08		20/33/39						
	6100182-2	61	01	6.00	02						250	6	25	GW	08		20/33/39						
6100184	49.6		03				61	7/82	AG	GW	4	PHILLIP R. NELSETH						08	13	0.8	31	80	0.50
	6100184-1	61	01	5.00	02	800					286	6	26	GW	08		21/33/39						
	6100184-2	61	01	5.00	02						171	6	26	GW	08		21/33/39						
	6100184-3	61	01	5.00	02						157	6	26	GW	08		21/33/39						
	6100184-4	61	01	5.00	02						105	6	26	GW	08		21/33/39						
6100188	21.6		03				61	10/85	AG	GW	2	A-1 CITRUS INC/OLON F. PIPPIN						08	13	0.8	31	40	0.50

	6100188-1		60	01	14.00	02					1500	5	20	GW	08	CAP.EST.	16/33/38						
	6100188-2		60	01	14.00	02					1500	5	20	GW	08	"							
6100189		138.2	03					61 7/82	AG	GW	2	C. REED KNIGHT						08	13	0.8	31	320	0.85
	6100189-1		59	01	12.00	02					1100	5	15	GW	08		15/33/37						
	6100189-2		59	01	12.00	02					1100	5	15	GW	08		15/33/37						
6100193		21.5	03					61 8/82	AG	GW	2	MONROE GROVES						08	13	0.8	31	20	0.50
	6100193-1			01	4.00	02					60	3	25	GW	08		05/33/39						
	6100193-2			01	4.00	02					350	3	25	GW	08		05/33/39						
6100194		46.1	03					61 8/82	AG	GW	2	MONROE GROVES						08	13	0.8	31	40	0.50
	6100194-1		61	01	6.00	02					320	7	26	GW	08		28/33/39						
	6100194-2		61	01	6.00	02					100	7	26	GW	08		28/33/39						
6100197		73.5	03					61 5/86	AG	GW	5	D.VICTOR KNIGHT JR.						08	13	0.8	31	160	0.85
	6100197-1			01	6.00	02					358	4	20	GW	08		09/33/38						
	6100197-2			01	6.00	02					358	4	20	GW	08		09/33/38						
	6100197-3			01	6.00	02					358	4	20	GW	08		09/33/38						
	6100197-4			01	6.00	02					358	4	20	GW	08		09/33/38						
	6100197-5			02	6.00	02					3000	4	20	GW	08		09/33/38						
6100199		27.6	03					61 3/83	AG	GW	3	R. W. GRAVES INC.						08	13	0.8	31	80	0.85
	6100199-1		60	01	8.00	02					674	7	21	GW	08		27/33/38						
	6100199-2		60	01	8.00	02					479	7	21	GW	08		27/33/38						
	6100199-3		60	01	8.00	02					200	7	21	GW	08		27/33/38						
6100200		55.3	03					61 9/82	AG	GW	1	RANDY SEXTON JR.						08	13	0.8	31	80	0.85
	6100200-1		60	01	8.00						575	8	22	GW	08	CAP.EST.	35/33/38						
6100201		16.6	03					61 9/82	AG	GW	3	J. MARK WELLS						08	13	0.8	31	20	0.50
	6100201-1		61	01	5.00	02					306	8	26	GW	08		33/33/39						
	6100201-2		61	01	5.00	02					286	8	26	GW	08		33/33/39						
	6100201-3		61	01	5.00	02					127	8	26	GW	08		33/33/39						
6100203		70.6	03					61 12/85	AG	GW	2	C & G GROVES						08	13	0.8	31	160	0.50
	6100203-1		61	01	6.00	02					239	7	24	GW	08		30/33/39						
	6100203-2		61	01	6.00	02					501	7	24	GW	08		30/33/39						
6100205		28.0	03					61 8/85	AG	GW	1	ELLIOTT & JOHNSON VERO BEACH						08	13	0.8	31	70	0.85
	6100205-1		61	02	10.00	02					1725	8	25	GW	08	CAP.EST.	32/33/39						
	6100205-2		61	01	10.00	02	700				1725	8	25	GW	08		32/33/39						
6100206		54.1	03					61 9/82	AG	GW	1	ELLIOTT & JOHNSON						08	13	0.4	31	40	0.50
	6100206-1		61	01	10.00	02					1429	3	27	GW	08		03/33/39						
6100207		37.7	03					61 3/87	AG	GW	3	VERO GROVE DEV. CORP.						08	13	0.4	31	40	0.50
	6100207-1			01	4.00	02					100	7	30	GW	08	CAP.EST.	30/33/40						
	6100207-2			01	4.00	02					100	7	30	GW	08	"	30/33/40						
	6100207-3			01	4.00	02					100	7	30	GW	08	"	30/33/40						
6100209		44.5	03					61 5/85	AG	GW	1	EVANS PROPERTIES && GROVES						08	13	0.8	31	223	0.50

LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)

PERMIT NO.	AN. ALL.	ALL UNT	MAX NO.	NO. UTS.	CO	DATE ISS.	USE TYPE	SRC.	NO. WLS.	SW PMPS	OWNER	CO	PERMIT NO.	DEV NO.	AQ	CROP TYPE	SOIL TYPE	RAIN ST	IRR ACRES	IRR EFF

LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)

PERMIT NO.	FACILITY NUMBER	QUAD. NO.	WELL STSDIA.		DPTN CODE	TD	PMP CD	PUMP INT	PUMP TYPE	PUMP CAP.	MTR?	ROW	COLUMN	SRC	AQ.	COMMENTS	S / T / R

Permit / Facility	An. All.	All Unt / Quad	Well	Max No. / Stsdia	Dptn Code	TD	CO	Date	Use	Src	Wls / Cap	Owner / Row	Column	Src	Aq	Comments	S/T/R	AQ	Crop Type	Soil Type	Rain ST	Irr Acres	Irr Eff
6100209-1		60	01	8.00	02						575	8	18	GW	08	CAP.EST.	31/33/38						
6100211	13.8	03					61	5/85	AG	GW	2	WILLIAM & FRANCES GRAVES III						08	13	0.8	31	20	0.50
6100211-1		61	01	5.00	02						250	7	25	GW	08	CAP.EST.	29/33/39						
6100211-2		61	01	5.00	02						250	7	25	GW	08	"	29/33/39						
6100214	204.6	03					61	12/85	AG	GW	5	ESTATE OF C. RAY HOGAN						08	13	0.8	31	310	0.50
6100214-1		61	01	8.00	02						681	7	25	GW	08		29,31,32/33/39						
6100214-2		61	01	8.00	02						471	7	25	GW	08		29,31,32/33/39						
6100214-3		61	01	8.00	02						383	8	24	GW	08		29,31,32/33/39						
6100214-4		61	01	8.00	02						1201	8	25	GW	08		29,31,32/33/39						
6100214-5		61	01	8.00	02						225	8	24	GW	08		29,31,32/33/39						
6100215	9.6	03					61	10/82	AG	GW	1	ESTATE OF C. RAY HOGAN						08	13	0.8	31	40	0.85
6100215-1		01			02						250	7	23	GW	08	CAP.EST.	25/33/38						
6100216	325.3	03						3/87	AG	GW	1	DESIRE AND JOHANNA KROMHOUT						08	13	0.8	31	200	0.50
6100216-1		01		3.00	02	600					100	2	17	GW	08	CAP.EST.	36,01/32/33/37						
6100230	144.9	03					61	4/85	AG	GW	14	W.C. GRAVES JR.						08	13	0.8	31	210	0.50
6100230-1		61	01	4.00	02						38	5	24	GW	08		18/33/39						
6100230-10		61	01	4.00	02						125	5	24	GW	08		18/33/39						
6100230-11		61	01	8.00	02						305	5	24	GW	08		18/33/39						
6100230-12		61	01	8.00	02						125	5	24	GW	08		18/33/39						
6100230-13		61	01	8.00	02						75	5	24	GW	08		18/33/39						
6100230-14		61	01	4.00	02						125	5	24	GW	08		18/33/39						
6100230-2		61	01	4.00	02						176	5	24	GW	08		18/33/39						
6100230-3		61	01	4.00	02						38	5	24	GW	08		18/33/39						
6100230-4		61	01	4.00	02						38	5	24	GW	08		18/33/39						
6100230-5		61	01	4.00	02						176	5	24	GW	08		18/33/39						
6100230-6		61	01	4.00	02						375	5	24	GW	08		18/33/39						
6100230-7		61	01	4.00	02						625	5	24	GW	08		18/33/39						
6100230-8		61	01	4.00	02						176	5	24	GW	08		18/33/39						
6100230-9		61	01	4.00	02						125	5	24	GW	08		18/33/39						

6100231		132.5	03			61 6/86	AG	GW	5	FIRST VERO GROVE LTD.				08	13	0.8	31	187	0.50
	6100231-1		61 01	4.00	02				100	6	26	GW 08 CAP.EST.	21/33/39						
	6100231-2		61 01	4.00	02				100	6	26	GW 08 "	21/33/39						
	6100231-3		61 01	4.00	02				100	6	26	GW 08 "	21/33/39						
	6100231-4		61 01	4.00	02				100	6	26	GW 08 "	21/33/39						
	6100231-5		61 01	4.00	02				100	6	26	GW 08 "	21/33/39						
6100232		56.3	03			61 7/87	AG	GW	6	DANALD H. MCALLISTER				08	13	0.8	31	110	0.85
	6100232-1		61 01	6.00	02				1000	8	25	GW 08 CAP.EST.	32/33/39						
	6100232-2		61 01	6.00	02				1000	8	25	GW 08 "	32/33/39						
	6100232-3		61 01	6.00	02				1000	8	25	GW 08 "	32/33/39						
	6100232-4		61 01	6.00	02				1000	8	25	GW 08 "	32/33/39						
	6100232-5		61 01	6.00	02				1000	8	25	GW 08 "	32/33/39						
	6100232-6		61 01	6.00	02				1000	8	25	GW 08 "	32/33/39						
	6100232-7		61 02	6.00	02 950				1500	8	25	GW 08	32/33/39						
6100233		10.2	03			61 12/87	AG	GW	5	VERO BEACH, INC.				08	13	0.8	31	80	0.85
	6100233-1		61 01	4.00	02				100	8	24	GW 08 CAP.EST.	31/33/39						
	6100233-2		61 01	4.00	02				100	8	24	GW 08 "	31/33/39						
	6100233-3		61 01	4.00	02				100	8	24	GW 08 "	31/33/39						
	6100233-4		61 01	4.00	02				100	8	24	GW 08 "	31/33/39						
	6100233-5		61 01	4.00	02				100	8	24	GW 08 "	31/33/39						
	6100233-6		61 01	4.00	02 950				2000	8	24	GW 08	31/33/39						
6100235		41.4	03			61 2/85	AG	GW	2	EDWIN PRANGE				08	13			60	0.50
	6100235-1		61 01	8.00	02 850				575			GW 08 CAP.EST.	31/33/35						
	6100235-2		61 01	8.00	02 900				575			GW 08 "	31/33/35						
6100237		13.8	03			61 3/83	AG	GW	1	R.W. GRAVES				08	13	0.8	31	40	0.85
	6100237-1		60 01	8.00					674	8	22	GW 08	35/33/38						
6100238		33.1	03			61 3/83	AG	GW	2	SIDNEY M. BANACK JR.				08	13	0.8	31	40	0.50
	6100238-1		61 01	6.00	02				250	8	25	GW 08 CAP.EST.	32/33/39						
	6100238-2		61 01	6.00	02				250	8	25	GW 08 "	32/33/39						
6100242		33.1	03			61 3/87	AG	GW	2	THOMAS & MARY SUE BARNES				08	13	0.8	31	40	0.50
	6100242-1		61 01	6.00	02				250	7	25	GW 08 CAP.EST.	29,32/33/39						
	6100242-2		61 01	6.00	02				250	8	25	GW 08 "	29,32/33/39						
6100244		13.0	03			61 12/88	AG	GW	1	PERRY LLYOD				08	13	0.8	31	80	0.75
	6100244-A		60 01	6.00	02 920				200	8	21	GW 08	34/33/38						
6100245		23.0	03			61 12/82	AG	GW	4	ROCKMONT GROVES				08	13	0.8	31	160	0.85
	6100245-1		60 01	8.00	02				300	5	21	GW 08	15/33/38						
	6100245-2		60 01	8.00	02				150	5	21	GW 08	15/33/38						
	6100245-3		60 01	8.00	02				150	5	21	GW 08	15/33/38						
	6100245-4		60 01	8.00	02				20	5	21	GW 08	15/33/38						
6100246		23.0	03			61 12/82	AG	GW	1	ROCKMONT GROVES				08	13	0.8	31	80	0.50
	6100246-1		01	10.00	02 1100				750	4	21	GW 08	10/33/38						
6100248		0.4	01			2/89	AG	GW	2	CLIFFORD W. BALL				08	13	0.8	31	110	0.50

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LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
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PERMIT   AN.              ALL  MAX   NO.     DATE USE SRC.NO.  SW
NO.      ALL.             UNT  NO.   UTS. CO ISS. TYPE   WLS.  PMPS  OWNER
                                                                                     CO  PERMIT NO.  DEV NO.  AQ  CROP SOIL RAIN   IRR    IRR
                                                                                                                  TYPE TYPE  ST    ACRES  EFF
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LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
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PERMIT   FACILITY    QUAD.  WELL     DPTH           PMP PUMP PUMP
NO.      NUMBER      NO. STSDIA.     CODE  TD    CD INT TYPE CAP. MTR?   ROW  COLUMN SRC AQ.  COMMENTS       S / T / R
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         6100248-A    60 01           02 450                   250        6      22 GW  08 CAP.EST.       23/33/38

6100249         100.0    03                   2/89  AG  GW       1    CLIFFORD W. BALL
         6100249-A    61 01           02 800                   305        6      24 GW  08               19/33/39          08   13   0.8   31     100 0.50

6100251          57.1    03                 61 3/83      GW      1    DR. E. W. AKINS
         6100251-1    60       12.00  02 900                   400        4      17 SW  08               12/33/37          08   13   0.8   31     124 0.85

6100253         143.9    03                 61 12/85 AG  GW      1    WILLIAM G. ROE
         6100253-1    60 01    10.00                          4000        6      17 GW  08               24/33/37          08   13   0.8   31     277 0.85

6100255          26.3    03                 61 8/85  AG  GW      1    ALEX MACWILLIAMS JR.
         6100255-1    61 01     6.00  02  610                   50        8      23 GW  08               36/33/38          08   13   0.8   31      76 0.85

6100262          10.8    03                 61 2/83  AG  GW      2    R. W. GRAVES
         6100262-1    60 01     8.00  02  900                  429        4      21 GW  08               10/33/38          08   13   0.8   31      40 0.50
         6100262-2    60 01     8.00  02  900                  429        4      21 GW  08               10/33/38

6100263          19.0    03                 61 5/86  AG  GW      5    CENTRAL GROVES INC.
         6100263-1       01     2.00  02                        75        3      26 GW  08               04/33/39          08   13   0.8   31      23 0.50
         6100263-2       01     2.00  02                        75        3      26 GW  08               04/33/39
         6100263-3       01     2.00  02                       210        3      26 GW  08               04/33/39
         6100263-4       01     2.00  02                        75        3      26 GW  08               04/33/39
         6100263-5       01     2.00  02                       306        3      26 GW  08               04/33/39

6100266          33.1    03                 61 8/85  AG  GW      4    HENSICK GROVES INC.
         6100266-1    61 01     6.00  02                       442        7      25 GW  08               39/33/39          08   13   0.8   31      40 0.50
         6100266-2    61 01     6.00  02                       194        7      25 GW  08               39/33/39
         6100266-3    61 01     6.00  02                      2781        7      25 GW  08               39/33/39
         6100266-4    61 01     6.00  02                       327        7      25 GW  08               39/33/39

6100267          36.4    03                 61 10/85 AG  GW      1    WALLACE A. MOORE JR.
         6100267-1    60 01     8.00  02                       575        7      22 GW  08 CAP.EST        26/33/38          08   13   0.8   31      77 0.50

6100269          12.8    03                 61 11/85 AG  GW      7    M. H. PENNEY
                                                                                                                       08   13   0.8   31      60 0.85
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	6100269-1		61 01	8.00	02			300		7	26 GW 08	28/33/39					
	6100269-2		61 01	8.00				310		7	26 GW 08	28/33/39					
	6100269-3		61 01	8.00				326		7	26 GW 08	28/33/39					
	6100269-4		61 01	8.00				309		7	26 GW 08	28/33/39					
	6100269-5		61 01	8.00				312		7	26 GW 08	28/33/39					
	6100269-6		61 01	8.00				171		7	26 GW 08	28/33/39					
	6100269-7		61 01	8.00				165		7	26 GW 08	28/33/39					
6100275		37.6	03				61 10/85 AG GW	6	GEORGE S. LAMBETH				08	13	0.8	31	134 0.50
	6100275-1		61 01	5.00	02			324		8	26 GW 08	33/33/39					
	6100275-2		61 01	5.00	02			324		8	26 GW 08	33/33/39					
	6100275-3		61 01	5.00	02			159		8	26 GW 08	33/33/39					
	6100275-4		61 01	5.00	02			159		8	26 GW 08	33/33/39					
	6100275-5		61 01	5.00	02			159		8	26 GW 08	33/33/39					
	6100275-6		61 01	5.00	02			422		8	26 GW 08	33/33/39					
6100276		157.7	03				61 2/89 AG GW	3	1 GEORGE & LADONICE LAMBETH				08	13	0.8	31	120 0.85
6100276													08	13	0.8	31	150 0.50
	6100276-1		61 01		02			250		6	18 GW 08 CAP.EST	19/33/38					
	6100276-2		61 01		02			250		6	18 GW 08 CAP.EST	19/33/38					
	6100276-3		61 01		02			250		6	18 GW 08 CAP.EST	19/33/38					
6100277		144.9	03				61 2/89 AG GW	5	GEORGE LAMBETH JR.				08	13	0.8	31	280 0.85
	6100277-A		01	8.00	02	850		575		3	19 GW 08 CAP.EST.	04 05/33/38					
	6100277-B		01	8.00	02	850		575		3	19 GW 08 "	04 05/33/38					
	6100277-C		01	4.00	02	850		100		3	19 GW 08 "	04 05/33/38					
	6100277-D		01	8.00	02	850		575		3	20 GW 08 "	04 05/33/38					
	6100277-E		02	12.00	02	900		2000		3	20 GW 08	04 05/33/38					
	6100277-A		01	---		---		12700		3	20 SW 99 PUMP	04 05/33/38					
6100278		31.0	03				61 7/85 AG GW	3	THE PACKERS OF INDIAN RIVER				08	13	0.8	31	60 0.85
	6100278-1		61 01	6.00	02	850		100		7	26 GW 08	28/33/39					
	6100278-2		61 01	6.00	02	850		150		7	26 GW 08	28/33/39					
	6100278-3		61 01	6.00	02	1200		650		7	26 GW 08	28/33/39					
6100280		3.7	03				61 11/85 AG GW	1	MURRY CAPAZZO				08	13	0.8	31	20 0.50
	6100280-1		61 01	6.00	02	900		250		5	24 GW 08 CAP.EST	18/33/39					
6100281		51.8	03				61 5/85 AG GW	2	MRS. LLOYD KNIGHT				08	13	0.8	31	80 0.50
	6100281-1		60 01	6.00				250		8	21 GW 08 CAP.EST	34/33/38					
	6100281-2		60 01	6.00				250		8	21 GW 08 CAP.EST	34/33/38					
6100283		21.1	03				61 7/85 AG GW	1	ROSALIE HEARST				08	13	0.8	31	40 0.50
	6100283-1		60 01	8.00	02	1000		575		8	16 GW 08 CAP.EST.	35/33/37					
6100284		49.6	03				61 7/85 AG GW	1	DUNEYSTEIN CORP.				08	13	0.8	31	80 0.50
	6100284-1		60 01	10.00	02	1000		850		8	17 GW 08 CAP.EST.	36/33/37					
6100285		32.4	03				61 10/85 AG GW	1	WAYNE L. TITZEL				08	13	0.8	31	80 0.50
	6100285-1		60 01	10.00	02	1000		850		7	17 GW 08 CAP.EST.	25/33/37					

LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)

LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)

PERMIT NO.	AN. ALL.	ALL UNT	MAX NO.	NO. UTS.	CO	DATE ISS.	USE TYPE	SRC.	NO. WLS.	SW PMPS	OWNER	CO	PERMIT NO.	DEV NO.	AQ	CROP TYPE	SOIL TYPE	RAIN ST	IRR ACRES	IRR EFF
6100287	46.2	03			61	12/85	AG	GW	2		DUNEYSTEIN; GLAZER & CURTIS				08	13	0.8	31	77	0.50
6100298	44.6	03			61	3/86	AG	GW	1		LLOYD KNIGHT (MRS.)				08	13	0.8	31	95	0.85
6100299	66.2	03			61	4/87	AG	GW	1		WILLIAM COBB				08	13	0.8	31	80	0.50
6100300	13.3	03			61	1/84	AG	GW	1		BARNETT GREEN JR.				08	13	0.8	31	80	.85
6100301	16.4	03			61	1/84	AG	GW	1		GRIFFIN GREENE				08	13	0.8	31	40	.85
6100307	276.1	03			61	4/84	AG	GW	1		PHILLIP R. NELSETH				08	13	0.4	31	40	.50
6100309	4.44	03			61	2/84	AG	GW	1		ELTON E. RYALL				08	13	0.8	31	29	.85
6100311	25.1	03			61	4/86	AG	GW	2		CHARLES SEXTON				08	13	0.8	31	75	.50
6100312	16.1	03			61	4/86	AG	GW	1		R.W. GRAVES INC.				08	13	0.8	31	40	.85
6100315	33.8	03			61	4/84	AG	GW	1		COONEY MILES B.				08	13	0.8	31	49	.50
6100316	19.5	03			61	8/86	AG	GW	1		ALOGEN CORP.				08	13	0.8	31	75	.85
6100317	20.64	03			61	5/84	AG	GW	1		WILLIAM L. NICHOLAS				08	13	0.8	31	40	.85

PERMIT NO.	FACILITY NUMBER	QUAD. NO.	WELL STS	DIA.	DPTH CODE	TD	CD	PMP INT	PUMP TYPE	PUMP CAP.	MTR?	ROW	COLUMN	SRC	AQ.	COMMENTS	S / T / R
6100287	6100287-1	60	01	10.00	02	1000				850		8	19	GW	08	CAP.EST.	32/33/38
6100298	6100298-1	60	01	6.00						314		4	20	GW	08		09/33/38
6100299	6100299-1	60	01	8.00	02					650		7	21	GW	08		27/33/38
6100300	6100300-1	61	01	6.00						173		6	23	GW	08		24/33/38
6100301	6100301-1	60	01	6.00						250		8	24	GW	08		31/33/39
6100307	6100307-1		01	6.00	02	800				200		7	30	GW	08		30/33/40
6100309	6100309-1		01	6.00	02	960				125		3	20	GW	08		04/33/38
6100311	6100311-1	61	01	6.00						235		7	26	GW	08		28/33/39
	6100311-2	61	01	6.00						200		7	26	GW	08		28/33/39
6100312	6100312-1	60	01	8.00						400		7	21	GW	08		27/33/38
6100315	6100315-1	60	01	8.00	02	600				750		3	20	GW	08		04/33/38
6100316	6100316-1	59	01	12.00						2000		4	14	GW	08		09/33/37

6100317-1		60 01	6.00	02 900		500	4	21 GW 08	10/33/38						
6100318	24.98	03			61 5/84 AG GW	1	PAYES #83 GROVE								
6100318-2		60 01	6.00	02 900		403	4	21 GW 08	10/33/38	08	13	0.8	31	40	.50
6100319	710.4	03			61 7/84 MIN SW		1 INDIAN RIVER CO. &IREWCD								
							8	21 SW 99	34/33/38	99	13	0.8	31		
6100321	164	03			61 5/84 GLF BOTH	8	VISTA PROPERTIES OF VERO BEACH								
6100321-10		61 01	4.00	02		205	5	30 GW 08 1/2 G.W., 1/2 S.W.	18 19/33/40	08	15	0.4	31	175	.75
6100321-11		61 01	4.00	02		425	5	30 GW 08	18 19/33/40						
6100321-12		61 01	4.00	02		186	5	30 GW 08	18 19/33/40						
6100321-13		61 01	4.00	02		205	5	30 GW 08	18 19/33/40						
6100321-6		61 01	4.00	02		222	6	30 GW 08	18 19/33/40						
6100321-7		61 01	4.00	02		205	6	30 GW 08	18 19/33/40						
6100321-8		61 01	4.00	02		212	6	30 GW 08	18 19/33/40						
6100321-9		61 01	4.00	02		602	6	30 GW 08	18 19/33/40						
6100328	1.4	03			61 6/84 AG GW	1	FRANK G. BARATTA								
6100328-1		01	6.00	02		1326	3	23 GW 08	01/33/38	08	13	0.4	31	20	.50
6100329	83.74	03			61 11/86 AG GW	2	4 BEN HILL GRIFFIN INC.								
6100329-1		59	8.00	02 800		575	6	13 GW 08 MULT ACRE	20/33/37	08	13	0.8	31	122	.85
6100329-2		59	8.00	02 800		575	6	13 GW 08 .2	20/33/37						
6100329-2		59 01				2000	6	13 SW 99	20/33/37						
6100331	20.7	03			61 11/86 AG GW	1	JACKSON BROS. GROVES								
6100331-1		61 01	8.00	02		575	5	24 GW 08 CAP.EST.	18/33/39	08	13	0.8	31	40	.85
6100333	68.43	03			61 9/88 GLF BOTH	14	VISTA PROPERTIES OF VERO BEACH								
6100333-A		01		02		376	3	24 GW 08	06/33/39	08	15	0.8	31	72	.85
6100333-B		04		02		280	3	24 GW 08	06/33/39						
6100333-C		01		02		482	3	24 GW 08	06/33/39						
6100333-D		01		02		482	3	24 GW 08	06/33/39						
6100333-A		01		02		500	3	24 SW 99	06/33/39						
6100333-D		01		02		482	3	24 SW 99	06/33/39						
6100333-B		01		02		500	3	24 SW 99	06/33/39						
6100333-D		01		02		482	3	24 SW 99	06/33/39						
6100333-C		01		02		250	3	24 SW 99	06/33/39						
6100333-D		01		02		482	3	24 SW 99	06/33/39						
6100333-D		01		02		180	3	24 SW 99	06/33/39						
6100333-D		01		02		482	3	24 SW 99	06/33/39						
6100333-E		01		02		180	3	24 SW 99	06/33/39						
6100333-D		01		02		482	3	24 SW 99	06/33/39						
6100333-F		01		02		180	3	24 SW 99	06/33/39						
6100334	68.38	03			61 8/84 GLF GW	5	VISTA PROPERTIES OF VERO BEACH								
6100334-1		61 01	3.00	02		93	5	29 GW 08	13,18/33/39,40	08	15	0.4	31	70	.75
6100334-2		61 01	3.00	02		212	5	29 GW 08	13,18/33/39,40						
6100334-3		61 01	3.00	02		96	5	30 GW 08	13,18/33/39,40						
6100334-4		61 01	3.00	02		186	5	30 GW 08	13,18/33/39,40						
6100334-5		61 01	3.00	02		186	5	30 GW 08	13,18/33/39,40						

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LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
PERMIT   AN.                ALL  MAX   NO.     DATE USE SRC.NO.  SW
NO.      ALL.               UNT  MO.   UTS. CO ISS. TYPE   W.S.  PMPS  OWNER                                                    CROP SOIL RAIN    IRR   IRR
                                                                                                   CD  PERMIT NO.  DEV NO.  AQ TYPE TYPE  ST     ACRES  EFF

LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
PERMIT   FACILITY    QUAD.  WELL      DPTH          PMP PUMP PUMP
NO.      NUMBER      NO. STSDIA.      CODE  TD   CD INT TYPE CAP. MTR?   ROW  COLUMN SRC AQ.  COMMENTS          S / T / R

6100337            15.8    03                    61 2/87  AG  GW      1    WILLIAM T. BRADY
          6100337-1      60 01     8.00  02 1000                     366         8        16 GW  08                  35/33/37           08   13   0.8    31        40  .50
6100340            37.2    03                    61 12/86 AG  GW      1  1 DICK SIMONETT
          6100340-1      60 01     8.00                              575         5        21 GW  08 CAP.EST.         15/33/38           08   13   0.8    31        72  .85
6100341            27.1    03                    61 3/87  AG  GW      1    W.E.ORTH
          6100341-1      60 01     8.00                              785         8        21 GW  08                  34/33/38           08   13   0.8    31        35  .50
6100344            21.4    03                    61 3/87  AG  GW      2    F.G. BARATTA
          6100344-1         01     6.00  02                          250         3        24 GW  08 CAP. EST.        06/33/39           08   13   0.8    31        47  .85
          6100344-2         01     6.00  02                          250         3        24 GW  08 "                06/33/39
6100347             2.6    03                    61 3/87  AG  GW      2    JOHN AMOS
          6100347-1      61 01     6.00  02                          250         7        24 GW  08 CAP.EST.         30/33/39           08   13   0.8    31        40  .50
          6100347-2      61 01     6.00  02                          250         7        24 GW  08 "                30/33/39
6100351             5.8    03                    61 3/87  AG  GW      2    THOMAS BARNES
          6100351-1      61 01     4.00  02                          100         4        27 GW  08 CAP.EST.         10/33/39           08   13   0.4    31         7  .50
          6100351-2      61 01     4.00  02                          100         4        27 GW  08 "                10/33/39
6100358            10.1    03                    61 8/85  AG  GW      1    J.E. WASHBURN
          6100358-1      60 01     6.00                              250         5        20 GW  08 CAP.EST.         16/33/38           08   13   0.8    31        54  .50
6100365            14.7    03                    61 4/85  AG  GW      2    PRISCILLA AMERIKANOS
          6100365-1      61 01           02 760                       20         6        25 GW  08                                     08   13   0.8    31        30  .50
          6100365-2      61 01           02 760                       20         6        25 GW  08                  20/33/39
6100367             253    03                    61 5/85  AG  GW      1    EVANS PROPERTIES INC.
          6100367-1      59 01     6.00  02 1100                     600         8        13 GW  08                  32 33/33/37        08   13   0.8    31.      550  .85
6100368           243.8    03                    61 3/85  AG  GW      1    EVANS PROPERTIES INC.
          6100368-1      59 01     8.00  02 1100                     800         7        13 GW  08                  29/33/37           08   13   0.8    31       530  .85
6100369           210.7    03                    61 3/85  AG  GW      1    E.B. GROVES INC.
                                                                                                                                        08   13   0.8    31       458  .85
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	6100369-1		60	01	12.00	02	995				4300	8	18	GW	08		31/33/38						
6100374		20.5		03				61 3/85	AG	GW	1	JOHN SHERRY						08	13	0.8	31	21	.50
	6100374-1		61	01	6.00	02	800				250	6	25	GW	08	CAP.EST.	20/33/39						
6100375		16.6		03				61 7/85	AG	GW	2	L. RALPH POPPELL						08	13	0.8	31	20	.50
	6100375-1			01	6.00						250	7	25	GW	08	CAP.EST.	29/33/39						
	6100375-2			01	6.00						250	7	25	GW	08	"	29/33/39						
6100376		39.7		03				61 7/85	AG	GW	4	L. RALPH POPPELL						08	13	0.8	31	80	.50
	6100376-1		61	01	6.00	02					353	6	27	GW	08		22/33/39						
	6100376-2		61	01	6.00	02					196	6	27	GW	08		22/33/39						
	6100376-3		61	01	6.00	02					172	6	27	GW	08		22/33/39						
	6100376-4		61	01	6.00	02					200	6	27	GW	08		22/33/39						
6100377		2.8		03				61 4/85	AG	GW	2	HURLEY ROUNDTREE						08	13	0.8	31	18	.85
	6100377-1		61	01	6.00	02					250	6	27	GW	08	CAP.EST.	22/33/39						
	6100377-2		61	01	6.00	02					250	6	27	GW	08	"	22/33/39						
6100378		3.9		03				61 4/85	AG	GW	1	HURLEY ROUNDTREE						08	13	0.8	31	38	.85
	6100378-1		60	01	6.00	02					250	6	21	GW	08	CAP.EST.	22/33/38						
6100382		2.71		03				61 8/85	AG	GW	1	HURLEY ROUNDTREE						08	13	0.8	31	35	.85
	6100382-1		60	01	6.00	02					250	6	21	GW	08	PUMP CLOSED,CAP.EST	22/33/38						
6100383		12.1		03				61 7/85	AG	GW	2	WM. HENSICK & SONS INC.						08	13	0.8	31	50	.50
	6100383-1		61	01	4.00	02					100	5	26	GW	08	CAP.EST.	16/33/39						
	6100383-2		61	01	4.00	02					100	5	26	GW	08	"							
6100384		5.1		03				61 8/85	AG	GW	1	HOWARD MILLER-PRINCE						08	13	0.8	31	80	.85
	6100384-1		60	01	8.00	02					575	6	21	GW	08	CAP.EST.	22/33/38						
6100386		7.06		03				61 5/85	AG	GW	1	OWEN C. JOHNSON						08	13	0.8	31	9	.50
	6100386-1		61	01	6.00	02					250	5	26	GW	08	CAP.EST.	16/33/39						
6100387		6.95		03				61 5/85	AG	GW	1	ED & RUTH ELLIOTT & J. JOHNSON						08	13	0.8	31	18	.85
	6100387-1		61	01	6.00	02					250	6	25	GW	08	CAP.EST.	20/33/39						
6100388		7.17		03				61 5/85	AG	GW	1	ED & RUTH ELLIOTT & J. JOHNSON						08	13	0.8	31	20	.85
	6100388-1		61	01	6.00	02	790				150	5	24	GW	08		18/33/39						
6100389		7.04		03				61 5/85	AG	GW	1	ELLIOTT JOHNSON GROVES INC.						08	13	0.8	31	20	.85
	6100389-1		61	01	8.00	02					575	5	24	GW	08	CAP.EST.	18/33/39						
6100390		52.6		03				61 6/85	AG	GW	17	RIOMAR COUNTRY CLUB						02	15	0.4	31	58	.75
	6100390-1			01	2.00	02	18				60	3	31	GW	02		05/33/40						
	6100390-10			01	2.00	02	22				60	3	31	GW	02		05/33/40						
	6100390-11			01	2.00	02	22				60	3	31	GW	02		05/33/40						
	6100390-12			01	2.00	02	18				40	3	31	GW	02		05/33/40						
	6100390-13			01	2.00	02	16				40	3	31	GW	02		05/33/40						
	6100390-14			01	2.00	02	18				40	3	31	GW	02		05/33/40						
	6100390-15			01	2.00	02	18				40	3	31	GW	02		05/33/40						

LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)

PERMIT NO. | AN. ALL. | ALL UNT | MAX NO. | NO. UTS. | CO | DATE ISS. | USE TYPE | SRC. | NO. WLS. | SW PMPS | OWNER | CO | PERMIT NO. | DEV NO. | AQ | CROP TYPE | SOIL TYPE | RAIN ST | IRR ACRES | IRR EFF

LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)

PERMIT NO. | FACILITY NUMBER | QUAD. NO. | WELL STSDIA. | DPTH CODE | TD | CD | PMP INT | PUMP TYPE | PUMP CAP. | MTR? | ROW | COLUMN | SRC | AQ. | COMMENTS | S / T / R

PERMIT NO.	FACILITY NUMBER / AN. ALL.	QUAD. NO. / ALL UNT	WELL STSDIA. / MAX NO.	DPTH CODE / NO. UTS.	TD	CD / CO	PMP INT / DATE ISS.	PUMP TYPE / USE TYPE	SRC.	PUMP CAP. / NO. WLS.	ROW	COLUMN	SRC	AQ.	COMMENTS / OWNER	S / T / R	AQ	CROP TYPE	SOIL TYPE	RAIN ST	IRR ACRES	IRR EFF
	6100390-16	01	2.00	02	18					40	3	31	GW	02		05/33/40						
	6100390-17	01	2.00	02	800					75	3	31	GW	08		05/33/40						
	6100390-2	01	2.00	02	19					60	3	31	GW	02		05/33/40						
	6100390-3	01	2.00	02	18					60	3	31	GW	02		05/33/40						
	6100390-4	01	2.00	02	20					60	3	31	GW	02		05/33/40						
	6100390-5	01	2.00	02	21					60	3	31	GW	02		05/33/40						
	6100390-6	01	2.00	02	20					60	3	31	GW	02		05/33/40						
	6100390-7	01	2.00	02	22					60	3	31	GW	02		05/33/40						
	6100390-8	01	2.00	02	20					60	3	31	GW	02		05/33/40						
	6100390-9	01	2.00	02	22					60	3	31	GW	02		05/33/40						
																05/33/40						
6100391	10.3	03				61	5/85	AG	GW	1					WILLIAM & FRANCES GRAVES III							
	6100391-1	60 01	6.00	02						250	6	22	GW	08	CAP.EST.	23/33/38	08	13	0.8	31	20	.85
6100392	23.9	03				61	5/85	AG	GW	1					WILLIAM & FRANCES GRAVES III							
	6100392-1	01	6.00	02						250	6	21	GW	08	CAP.EST.	22/33/38	08	13	0.8	31	72	.50
6100393	20.7	03				61	5/85	AG	GW	1					WILLIAM & FRANCES GRAVES III							
	6100393-1	01	8.00	02						575	7	24	GW	08	CAP.EST	30/33/39	08	13	0.8	31	40	.85
6100394	13.8	03				61	5/85	AG	GW	2					WILLIAM & FRANCES GRAVES III							
	6100394-1	60 01	4.00	02						100	5	21	GW	08	CAP.EST.	15/33/38	08	13	0.8	31	20	.50
	6100394-2	60 01	4.00	02						100	5	21	GW	08	"	15/33/38						
6100395	26.6	03				61	5/85	AG	GW	1					WILLIAM GRAVES IV							
	6100395-1	60 01	6.00	02						250	5	20	GW	08	CAP.EST.	16/33/38	08	13	0.8	31	40	.50
6100396	5.2	03				61	6/85	AG	BOTH	3					DELTA FARMS WATER CONTROL DIST							
	6100396-1	01	6.00	02	750					314	3	16	GW	08		2,4, 33/37	08	13	0.8	31	25	.85
	6100396-1	02	6.00	02	750					1200	3	14	GW	08	MOSTLY PROPOSED WELLS							
	6100396-2	01	12.00	02	750					1296	3	16	GW	08	APPARENTLY THIER APPLYING							
	6100396-2	02	6.00	02	750					1200	3	14	GW	08	FOR EXPANSION TO 2657 ACRES							
	6100396-3	01	6.00	02	750					530	3	14	GW	08	26 PROP.WELLS							
	6100396-3	02	6.00	02	750					1200	3	14	GW	08								
	6100396-4	02	6.00	02	750					1200	3	14	GW	08								

	6100396-5			02	6.00	02	750				1200	3	14 GW 08							
	6100396-6			02	6.00	02	750				1200	3	14 GW 08							
	6100396-7			02	6.00	02	750				1200	3	14 GW 08							
6100397		27.6		03			61	6/85	AG	GW	4	J. SCHIRARD/CHARLES STONE JR.			08	13	0.8	31	40	.50
	6100397-1		61	01	4.00	02					125	8	27 GW 08	34/33/39						
	6100397-2		61	01	4.00	02					125	8	27 GW 08	34/33/39						
	6100397-3		61	01	4.00	02					125	8	27 GW 08	34/33/39						
	6100397-4		61	01	4.00	02					125	8	27 GW 08	34/33/39						
6100401		20.7		03			61	6/85	AG	GW	2	PARKER PROPERTIES INC.			08	13	0.8	31	40	.85
	6100401-1		61	01	10.00	02					850	7	25 GW 08 CAP.EST	29/33/39						
	6100401-2		61	01	10.00	02					850	7	25 GW 08 "	29/33/39						
6100402		26		03			61	7/85	AG	GW	1	WALTER A. TAYLOR			08	13	0.8	31	260	.50
	6100402-1		60	01	8.00	02					1204	7	17 GW 08	25/33/37						
6100406		84.8		03			61	8/85	AG	GW	3	TRIPLE M GROVES INC.			08	13	0.8	31	110	.50
	6100406-1		61	01	4.00	02					125	3	25 GW 08 CAP.EST.							
	6100406-2		61	01	4.00	02					125	3	26 GW 08 "							
	6100406-3		61	01	4.00	02					125	3	26 GW 08 "	32,33/33/39						
6100408		0.001		03			61	10/85	AG	GW	1	JOHN &BARBARA S. TRIPSON			08	13	0.8	31	.5	.50
	6100408-1			01	6.00	02					250	4	26 GW 08 CAP.EST.	09/33/39						
6100409		10.58		03			61	2/86	COM	GW	1	JEAN M. HENNE			02			31		
	6100409-1			01	36.00	02	12				5000	3	21 GW 02 CAP.EST.	03/33/38						
6100411		12.6		03			61	10/85	AG	GW	2	ROBERT A. HOSKINS			08	5	0.4	31	6	.75
	6100411-1		61	01	6.00	02	760				400	6	28 GW 08	23/33/39						
	6100411-2		61	01	6.00	02	400				250	6	28 GW 08	23/33/39						
6100412		3.1		03			61	9/85	AG	GW	1	CHARLES & CAROL GOLLNICK			08	13	0.8	31	30	.50
	6100412-1		61	01	6.00						442	5	25 GW 08	17/33/39						
6100413		9.5		03			61	10/85	AG	GW	10	HENRY SCHACHT			08	13	0.8	31	150	.50
	6100413-1			01	4.00	02	600				100	4	14 GW 08 CAP.EST.	09/33/37						
	6100413-10			01	4.00	02	600				100	4	14 GW 08 "	09/33/37						
	6100413-2			01	4.00	02	600				100	4	14 GW 08 "	09/33/37						
	6100413-3			01	4.00	02	600				100	4	14 GW 08 "	09/33/37						
	6100413-4			01	4.00	02	600				100	4	14 GW 08 "	09/33/37						
	6100413-5			01	4.00	02	600				100	4	14 GW 08 "	09/33/37						
	6100413-6			01	4.00	02	600				100	4	14 GW 08 "	09/33/37						
	6100413-7			01	4.00	02	600				100	4	14 GW 08 "	09/33/37						
	6100413-8			01	4.00	02	600				100	4	14 GW 08 "	09/33/37						
	6100413-9			01	4.00	02	600				100	4	14 GW 08 "	09/33/37						
6100414		20.8		03			61	10/85	AG	GW	3	HENRY SCHACHT			08	13	0.8	31	33	.50
	6100414-1			01	6.00	02					250	4	25 GW 08 CAP.EST.	08/33/39						
	6100414-2			01	6.00	02					250	4	25 GW 08 "	08/33/39						
	6100414-3			01	6.00	02					250	4	25 GW 08 "	08/33/39						

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LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
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PERMIT   AN.                 ALL  MAX   NO.      DATE USE SRC.NO.  SW
NO.      ALL.                UNT  NO.   UTS. CO  ISS. TYPE   WLS.  PMPS   OWNER                        CO  PERMIT NO.  DEV NO.  AQ  CROP SOIL  RAIN   IRR    IRR
                                                                                                                                  TYPE TYPE  ST     ACRES  EFF
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LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
==========================================================================================================
PERMIT   FACILITY      QUAD.  WELL      DPTH           PMP PUMP PUMP
NO.      NUMBER        NO. STSDIA.      CODE  TD   CD INT TYPE CAP. MTR?   ROW  COLUMN SRC AQ.  COMMENTS        S / T / R

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6100415             5    03                    61 10/85 AG  GW      1     HENRY SCHACHT
        6100415-1        01     6.00  02                          250             4     24 GW  08 CAP.EST     07/33/39                  08  13  0.8  31    20  .85

6100416          28.2    03                    61 4/86 GLF BOTH     4     ALOHA INC.
        6100416-1        01     8.00  02                          575             2     26 GW  08 CAP EST.    33,03/32,33/39            08  15  0.4  31   120  .75
        6100416-2        01     8.00  02                          575             2     26 GW  08 "
        6100416-3        01     8.00  02                          575             3     27 GW  08 "
        6100416-4        01     8.00  02                          575             3     27 GW  08 "

6100426           5.7    03                    61 11/85 AG  GW      3     JOHN J. SCHUMANN JR.
        6100426-1        01     6.00  02                          250             7     26 GW  08 CAP.EST.    28/33/39                  08  13  0.8  31    30  .50
        6100426-2        01     6.00  02                          250             7     26 GW  08 "           28/33/39
        6100426-3        01     6.00  02                          250             7     26 GW  08 "           28/33/39

6100427          33.1    03                    61 11/85 AG  GW      2     DAVID PRANGE
        6100427-1     61 01    10.00  02                         1554             8      1 GW  08             32/33/35                  08  13  0.8  31    40  .50
        6100427-2     61 01    10.00  02                          245             8      1 GW  08             32/33/35

6100429          55.7    03                    61 11/85 AG  GW      4     GLENDALE GROVE CO.INC.
        6100429-1     61 01     4.00  02                          142             5     26 GW  08             16/33/39                  08  13  0.8  31   150  .50
        6100429-2     61 01     4.00  02                          211             5     26 GW  08             16/33/39
        6100429-3     61 01     4.00  02                          144             5     26 GW  08             16/33/39
        6100429-4     61 01     4.00  02                          363             5     26 GW  08             16/33/39

6100430          33.6    03                    61 11/85 AG  GW      3     SUN CITRUS CO.
        6100430-1        01     4.00  02                          137             5     26 GW  08             16/33/39                  08  13  0.8  31    40  .50
        6100430-2        01     4.00  02                          442             5     26 GW  08             16/33/39
        6100430-3        01     4.00  02                          589             5     26 GW  08             16/33/39

6100431          82.9    03                    61 1/86  AG  GW     20     FRANK MANNARINO
        6100431-10       02    10.00 02   800                    1000     out bounds       GW  08             03,22,27,34/32,33/35      08  13  0.4  31   160  .85
        6100431-11       02    10.00 02   800                    1000     out bounds       GW  08             03,22,27,34/32,33/35
        6100431-12       02    10.00 02   800                    1000     out bounds       GW  08             03,22,27,34/32,33/35
        6100431-13       02    10.00 02   800                    1000     out bounds       GW  08             03,22,27,34/32,33/35
        6100431-14       02    10.00 02   800                    1000           1       3 GW  08             03,22,27,34/32,33/35
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	6100431-15		02	10.00	02	800					1000		1	3	GW	08		03,22,27,34/32,33/35					
	6100431-16		02	10.00	02	800					1000		1	3	GW	08		03,22,27,34/32,33/35					
	6100431-17		02	10.00	02	800					1000		1	3	GW	08		03,22,27,34/32,33/35					
	6100431-18		02	10.00	02	800					1000		1	3	GW	08		03,22,27,34/32,33/35					
	6100431-19		02	10.00	02	800					1000		3	3	GW	08		03,22,27,34/32,33/35					
	6100431-2		02	10.00	02	800					1000		3	3	GW	08		03,22,27,34/32,33/35					
	6100431-20		02	10.00	02	800					1000		3	3	GW	08		03,22,27,34/32,33/35					
	6100431-3		02	10.00	02	800					1000		3	3	GW	08		03,22,27,34/32,33/35					
	6100431-4		02	10.00	02	800					1000		3	3	GW	08		03,22,27,34/32,33/35					
	6100431-5		02	10.00	02	800					1000		3	3	GW	08		03,22,27,34/32,33/35					
	6100431-6		02	10.00	02	800					1000		2	3	GW	08		03,22,27,34/32,33/35					
	6100431-7		02	10.00	02	800					1000		2	3	GW	08		03,22,27,34/32,33/35					
	6100431-8		02	10.00	02	800					1000		2	3	GW	08		03,22,27,34/32,33/35					
	6100431-9		02	10.00	02	800					1000		2	3	GW	08		03,22,27,34/32,33/35					
	6100431-1		02	10.00	02	800					1000		2	3	GW	08		03,22,27,34/32,33/35					
6100433		3.8	03				61	10/85	AG	GW	1	MICHAEL BARATTA							08	13	0.8	31	20 .85
	6100433-1		01	6.00	02						147		3	23	GW	08		01/33/38					
6100435		10.8	03					11/85	AG	GW	2	ANNE G. KEEN							08	13	0.8	31	13 .50
	6100435-1		01	6.00	02						250		5	26	GW	08	CAP.EST.	16/33/39					
	6100435-2		01	6.00	02						250		5	26	GW	08	"	16/33/39					
6100436		9.2	03				61	11/85	AG	GW	5	ROBERT W. DEACON							08	13	0.4	31	25 .50
	6100436-1		61 01	2.00	02						75		4	27	GW	08	CAP.EST.	10,15/33/39					
	6100436-2		61 01	2.00	02						75		4	27	GW	08	"	10,15/33/39					
	6100436-3		61 01	2.00	02						75		5	27	GW	08	"	10,15/33/39					
	6100436-4		61 01	2.00	02						75		5	27	GW	08	"	10,15/33/39					
	6100436-5		61 01	2.00	02						75		5	27	GW	08	"	10,15/33/39					
6100437		10.2	03				61	11/85	AG	GW	1	BUENA VISTA GROVES							08	13	0.8	31	30 .85
	6100437-1		61 01	6.00	02	1070					145		6	26	GW	08		21/33/39					
6100438		16.6	03				61	11/85	AG	GW	2	HOOSHANG HOOSHMAND							08	13	0.8	31	20 .50
	6100438-1		01	6.00	02						250		6	26	GW	08	CAP.EST.	21/33/39					
	6100438-2		01	6.00	02						250				GW	08	"	21/33/39					
6100439		9.3	03				61	11/85	AG	GW	1	IRAJ HOOSHMAND							08	13	0.8	31	20 .50
	6100439-1		01	6.00	02						325		6	26	GW	08		21/33/39					
6100440		16.6	03				61	11/85	AG	GW	1	NEUROLOGICAL ASSOCIATION							08	13	0.8	31	20 .50
	6100440-1		01	6.00	02						442		6	26	GW	08		21/33/39					
6100441		2200	03				61	11/85	AG	SW		2 ST. JOHNS WATER CONTROL DIST.							99	13	0.8	31	22880 .50
6100441																			99	20	0.8	31	3200 .50
															SW	99	ADDT'L SECTIONS 11-36						
6100446		6.24	03				61	11/85	AG	GW	1	ESTATE OF C. RAY HOGAN							08	35	0.8	31	35 .85
	6100446-1		61 01	6.00	02						330		7	23	GW	08		25/33/38					
6100447		12.7	03				61	11/85	AG	GW	2	C & G GROVES							08	13	0.8	31	70 .50
	6100447-1		61 01	6.00	02						239		7	23	GW	08		25/33/38					

LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)

PERMIT NO. / AN. ALL. / ALL UNT / MAX NO. / NO. UTS. / CO / DATE ISS. / USE TYPE / SRC. / NO. WLS. / SW PMPS / OWNER / CO / PERMIT NO. / DEV NO. / AQ / CROP TYPE / SOIL TYPE / RAIN ST / IRR ACRES / IRR EFF

LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)

PERMIT NO. / FACILITY NUMBER / QUAD. NO. / WELL STSDIA. / DPTN CODE / TD / PMP CD / PUMP INT / PUMP TYPE / CAP. / MTR? / ROW / COLUMN / SRC / AQ. / COMMENTS / S / T / R

PERMIT NO.	FACILITY NUMBER	AN. ALL.	ALL UNT / QUAD. NO.	MAX NO. / WELL STSDIA.	NO. UTS. / DPTN CODE	CO	DATE ISS.	USE TYPE	SRC.	NO. WLS. / PUMP CAP.	OWNER / ROW COLUMN SRC AQ. COMMENTS	S / T / R	AQ	CROP TYPE	SOIL TYPE	RAIN ST	IRR ACRES	IRR EFF
	6100447-2		61 01	6.00	02					501	7 23 GW 08	25/33/38						
6100448		17.2	03			61	11/85	AG	GW	1	BAILEY & BAILEY INC.							
	6100448-1		01	6.00						250	7 23 GW 08	25/33/38	08	13	0.8	31	40	.50
6100449		12.2	03				10/85	AG	GW	2	VIRGINIA RUSSELL							
	6100449-1		01	4.00	02					179	8 1 GW 08	32/33/35	08	13	0.8	31	40	.50
	6100449-2		01	4.00	02					450	GW 08	32/33/35						
6100452		4.14	03		03	61	11/85	AG	GW	1	EVA C. WALKER (TRUST)							
	6100452-1		01	6.00	01					442	3 25 GW 08	05/33/39	08	13	0.8	31	2	.50
6100453		7900	03			61	11/85	AG	SW		1 INDIAN RIVER FARM WTR CONT DIST.							
											SW 99		99	13			17336	.50
6100454		3740	03			61	11/85	AG	SW		1 SEBASTIAN RVR WTR CONT DIST.							
											SW 99		99	13			9690	.50
6100457		6.1	03			61	11/85	AG	GW	1	TRACT 5 TRUST							
	6100457-1		01	6.00	02					530	4 26 GW 08	09/33/39	08	13	0.8	31	40	.50
6100460		18.5	03			61	12/85	AG	GW	1	CLAUSSON P. LEXOW (TRUSTEE)							
	6100460-1		01	8.00	02					600	7 22 GW 08	26/33/38	08	13	0.8	31	75	.85
6100461		67.8	03			61	1/86	AG	GW	1	WILLIAM G. ROE							
	6100461-1		59 01	8.00	02					623	7 22 GW 08	27/33/38	08	13	0.8	31	131	.85
6100462		8.6	03			61	1/86	AG	GW	1	WILLIAM G. ROE							
	6100462-1		60 01	8.00	02					575	7 15 GW 08 CAP.EST	27/33/37	08	13	0.8	31	69	.85
6100463		97.0	03			61	1/86	AG	GW	2	WILLIAM G. ROE							
	6100463-1		60 01	8.00	02					575	7 22 GW 08 CAP.EST.	26/33/38	08	13	0.8	31	145	.50
	6100463-2		60 01	8.00	02					575	7 22 GW 08 "	26/33/38						
6100465		11/85	03			61	11/85	AG	GW	2	T. DOYLE HOGAN							
													08	13	0.8	31	133	.50

	6100465-1		61 01	6.00	02			236	8	24 GW 08	31,32/33/39						
	6100465-2		61 01	6.00	02			681	8	25 GW 08	31,32/33/39						
6100466		7.67	03				61 1/86 IND GW	2	BELAIR PACKING HSE JOINT VT.			08				20	
	6100466-A		01	6.00	02			150	3	22 GW 08 .02 mgd req.	02/33/38						
	6100466-B		01	8.00	02			95	3	22 GW 08	02/33/38						
	6100466-C		02	6.00	02			150	3	22 GW 08	02/33/38						
6100467		45.1	03				61 11/85 AG GW	1	LUCY HENDERSON (TRUSTEE)			08	13	0.8	31	60	.50
	6100467-1		01	10.00	02			1043	8	17 GW 08	36/33/37						
6100468		49.7	03				61 11/85 AG GW	1	THOMAS EDMONDSON			08	13	0.8	31	60	.50
	6100468-1		01	10.00	02			1227	8	19 GW 08	32/33/38						
6100469		60.4	03				61 11/85 AG GW	3	THOMAS & LUCY EDMONDSON			08	13	0.8	31	90	.50
	6100469-1		01	8.00	02			670	8	19 GW 08	32/33/38						
	6100469-2		01	8.00	02			534	8	19 GW 08	32/33/38						
	6100469-3		01	8.00	02			660	8	19 GW 08	32/33/38						
6100470		13.8	03				61 11/85 AG GW	1	GEORGE & CATHERINE DETKO			08	13	0.8	31	40	.50
	6100470-1		61 01	6.00	02			249	5	24 GW 08	18/33/39						
6100473		23	03				61 12/85 AG GW	1	ERNEST AND ILSE GLASER			08	13	0.8	31	38	.50
	6100473-1		01	10.00	02	1000		850	8	19 GW 08 CAP.EST.	32/33/38						
	6100473-2		01	10.00	02	1000		850	8	19 GW 08 "	32/33/38						
	6100473-3		01	10.00	02	1000		850	8	19 GW 08 "	32/33/38						
	6100473-4		01	10.00	02	1000		850	8	19 GW 08 "	32/33/38						
6100474		46.3	03				61 12/85 AG GW	2	EUGENE CURTIS			08	13	0.8	31	77	.50
	6100474-3		01	8.00	02	1000		575	8	19 GW 08 CAP.EST.	32/33/38						
	6100474-4		01	8.00	02	1000		575	8	19 GW 08 "	32/33/38						
6100475		16.6	03				61 12/85 AG GW	1	SEXTON GROVE SERVICE			08	13	0.8	31	20	.50
	6100475-G		61 01	6.00	02	700		250	8	26 GW 08 CAP.EST.	33/33/39						
6100476		10.1	01				61 1/86 AG GW	1	CITICORP GROVE MGT. CORP.			08	13	0.8	31	320	.50
	6100476-1		60 01	8.00	02			575	5	15 GW 08 CAP.EST.	15/33/37						
6100479		10.51	03				61 1/86 COM GW	1	JOHNSON OIL CO.			02					
	6100479-1		02	12.00	02	23		20	3	29 GW 02	01/33/39						
6100486		16.5	03				61 5/86 AG GW	6	CENTRAL GROVES CORP.			08	13	0.8	31	20	.50
	6100486-1		01	2.00	02			75	3	26 GW 08	04/33/39						
	6100486-2		01	2.00	02			75	3	26 GW 08	04/33/39						
	6100486-3		01	2.00	02			75	3	26 GW 08	04/33/39						
	6100486-4		01	2.00	02			75	3	26 GW 08	04/33/39						
	6100486-5		01	2.00	02			75	3	26 GW 08	04/33/39						
	6100486-6		01	2.00	02			75	3	26 GW 08	04/33/39						
6100487		36.4	03				61 10/86PWS GW	3	LAKEWOOD VILLAGE ASSOC. LTD.			02					
	6100487-1		01	6.00	02	100			4	22 GW 02	11/33/38						
	6100487-2		01	6.00	02				4	22 GW 02	11/33/38						

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PERMIT NO. | AN. ALL. | ALL UNT | MAX NO. | NO. UTS. | CD | DATE ISS. | USE TYPE | SRC. | NO. WLS. | SW PMPS | OWNER | CO | PERMIT NO. | DEV NO. | AQ | CROP TYPE | SOIL TYPE | RAIN ST | IRR ACRES | IRR EFF

LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)

PERMIT NO. | FACILITY NUMBER | QUAD. NO. | WELL STSDIA. | DPTN CODE | TD | CD | PMP INT | PUMP TYPE | PUMP CAP. | MTR? | ROW | COLUMN | SRC | AQ. | COMMENTS | S / T / R

Permit No.	Facility Number	An. All.	Quad. No.	All Unt / Well Sts	Max No. / Dia.	Dptn Code	CD / TD	Date Iss.	Use Type	Src.	No. Wls. / Pump Cap.	SW Pmps	Owner / Row	Column	Src	Aq.	Comments	S / T / R	AQ	Crop Type	Soil Type	Rain St	Irr Acres	Irr Eff
	6100487-3			01	6.00	02							4	22	GW	02		11/33/38						
6100488		20.7		03			61	6/86	AG	GW	1	1	TRIPSON TRAIL GROVE						08	13	0.8	31	40	.50
	6100488-1		61	01	4.00	02					200		8	24	GW	08		31/33/39						
	6100488-2			02	4.00	02					200		8	24	GW	08		31/33/39						
6100490		28.6		03			61	12/88	AG	GW	3		MOORING DEVELOPMENT COMPANY						08	15	0.4	31	73	.75
	6100490-A		62	01		02	456				250		6	32	GW	08	CAP.EST.	21/33/40						
	6100490-B		62	01		02	843				250		6	32	GW	08	"	21/33/40						
	6100490-C		62	01		02	436				250		6	32	GW	08	"	21/33/40						
6100491		8.43		03			61	7/86	COM	SW	1		CITY OF VERO BEACH						99					
	6100491-1			02	6.00	02	85				150				SW	99		11/33/39						
6100493		124.2		03			61	1/88	AG	SW	4		20 MILE BEND GROVE INC.WELLS ARE PROPOSED						99	13			240	
															SW	99								
6100498		68		03			61	11/86	AG	SW		1	CHARLIE PRICE						99					
															SW	99								
6100500		18.11		03			61	1/89	AG	GW	4		BEN BAILY III						08	13	0.8	31	35	.85
	6100500-A		60	01	2.00	02	80				100		3	19	GW	02		05/33/38						
	6100500-B		60	01	2.00	02	80				100		3	19	GW	02		05/33/38						
	6100500-C		60	01	2.00	02	80				100		3	19	GW	02		05/33/38						
	6100500-D		60	01	2.00	02	80				100		3	19	GW	02		05/33/38						
	6100500-E		60	02	8.00	02	800				900		3	19	GW	08		05/33/38						
	6100500-A		60	01							500		3	19	GW	08		05/33/38						
6100502		28.38		03			61	1/89	COM	SW		1	JOHN & BARBARA TRIPSON						99					
	6100502-A		61	02							6000				SW	99								
6100503		9.79		03			61	1/89	AG	GW	1		BALMAR ASSOCIATES,INC.						08	5	0.8	31	9	.50
	6100503-A			02	6.00	02	80				270		3	23	GW	08		01/33/38						
6100504		1.6		03			61	12/86	AG	GW	4		RANGE LINE GROVES INC.						08	13	0.8	31	190	.50

	6100504-1		01	6.00	02					250	4	24	GW	08 CAP.EST.		07/33/39						
	6100504-2		01	6.00	02					250	4	24	GW	08 "		07/33/39						
	6100504-3		01	6.00	02					250	4	24	GW	08 "		07/33/39						
	6100504-4		01	6.00	02					250	4	24	GW	08 "		07/33/39						
6100505		23.1	03				61 4/87	AG	GW	1	THOMAS JONES						08	13	0.8	31	28	.50
	6100505-1		60 01	6.00	02					250	5	21	GW	08 CAP.EST		15/33/38						
6100506		10.3	03				12/86	AG	GW	1	THOMAS JONES						08	13	0.8	31	20	.85
	6100506-1		61 01	6.00	02					250	8	26	GW	08 CAP.EST		33/33/39						
6100510		13.6	03				61 2/87	AG	GW	1	THE PACKERS OF INDIAN R. INC.						08	13	0.8	31	35	.85
	6100510-1		60 02	8.00	02					575	7	21	GW	08 CAP.EST		27/33/38						
6100512		14.24	03				61 6/87	PWS	GW	2	STATE OF FLORIDA					36/33/38	02					
													GW	02								
6100513		38.8	03				61 3/87	AG	GW	1	FRANK G. BARATTA						08	13	0.8	31	75	.85
	6100513-1		61 02	8.00	02	1000				600	6	23	GW	08		24/33/38						
6100514		35.8	03				61 6/87	PWS	GW	1	ANGELES CORP.						08					
	6100514-1		61 01	6.00	02					200	4	22	GW	08	.1 MGD	11/33/38						
	6100514-2		61 02	6.00	02					200	4	22	GW	08		11/33/38						
6100516		2.1	03				61 6/87	AG	GW	1	1 NORMAN HENSICK JR.						08	13	0.4	31	30	.85
	6100516-1		61 02	4.00	02					100	7	30	GW	08 CAP.EST		30/33/39						
	6100516-2		61 01	4.00	02	900				100	7	30	GW	08 "		30/33/39						
6100517		5.5	03				61 4/87	COM	GW	1	1 RINKER MATERIALS CORP.						02	COM				
	6100517-1		61 01	6.00	02	75				400	4	29	GW	02		12/33/39						
	6100517-2		61 01	6.00	02	75				400	4	29	GW	02		12/33/39						
6100518		52	03				61 5/87	AG	GW	3	LIER GROVES INC.						08	13	0.8	31	115	.85
	6100518-1		60 01	8.00	02					828	8	22	GW	08		35/33/38						
	6100518-2		60 01	8.00	02					321	8	22	GW	08		35/33/38						
	6100518-3		60 02	8.00	02	1000				828	8	22	GW	08		35/33/38						
6100521		74.5	03				61 9/87	AG	GW	3	GEORGE LAMBETH JR.						08	13	0.8	31	300	.85
	6100521-1		01	3.00	02	800				75	6	15	GW	08 CAP.EST		02/33/37						
	6100521-2		02	3.00	02	1000				75	6	15	GW	08 "		02/33/37						
	6100521-3		02	3.00	02	1000				75	6	15	GW	08 "		02/33/37						
6100522		109.9	03				61 9/87	AG	GW	3	DELLERMAN GROVES INC.						08	13	0.8	31	173	.50
	6100522-1		01	8.00	02					900	3	17	GW	08		01,12/33/37						
	6100522-2		01	8.00	02					75	3	17	GW	08		01,12/33/37						
	6100522-3		01	8.00	02					1100	4	17	GW	08		01,12/33/37						
	6100522-4		02	8.00	02	700				900	4	17	GW	08		01,12/33/37						
6100528		16.04	03				61 11/88	AG	GW	1	LOUIS PERKINS						08	13	0.8	31	31	.85
	6100528-A		60 01		02	920				200	8	21	GW	08		34/33/38						
6100531		136.6	03				61 4/89	AG	GW	2	GEORGE LAMBETH						08	13	0.8	31	264	.85

```
LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
PERMIT   AN.              ALL  MAX   NO.     DATE USE SRC.NO.  SW
NO.      ALL.             UNT  NO.   UTS. CO ISS. TYPE   WLS.  PMPS   OWNER
                                                                                         CROP SOIL  RAIN   IRR    IRR
                                                                CO PERMIT NO.  DEV NO.  AQ TYPE TYPE  ST    ACRES  EFF

LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
PERMIT   FACILITY    QUAD.  WELL     DPTH          PMP PUMP PUMP
NO.      NUMBER      NO. STSDIA.     CODE  TD   CO INT TYPE CAP. MTR?   ROW  COLUMN SRC AQ.  COMMENTS        S / T / R

         6100531-A    59 02    12.00  02  990              3000        5     13 GW  08
         6100531-B    59 02    12.00  02  990              3000                 GW  08                  17/33/37
                                                                                                        17/33/37
 6100536           5.2    03               61 7/89 COM  GW  .  1     SHELL OIL COMPANY
         6100536-A        02   12.00  02                    10         3     21 GW  02                  03/33/38          02
```

Osceola River County

Water Use Spreadsheets

Osceola County

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==================================================================================================================
LINE 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 2 - Forcasted Agricultural Demand for Each Permit)
==================================================================================================================
                                                                                              CROP SOIL  RAIN    IRR   IRR
PERMIT   AN.            ALL  MAX   NO.      DATE USE SRC.NO.  SW
NO.      ALL.           UNT  NO.   UTS. CO  ISS. TYPE   WLS.  PMPS  OWNER            CO PERMIT NO.  DEV NO.  AQ TYPE TYPE  ST    ACRES EFF
==================================================================================================================

LINE 2+ HEADINGS (Table 1 - Existing Water Use - Facilities Information for Each Permit)
=========================================================================
PERMIT   FACILITY     QUAD.  WELL      DPTH          PMP PUMP PUMP
NO.      NUMBER       NO. STSDIA.      CODE  TD   CD INT TYPE CAP. MTR?   ROW  COLUMN SRC AQ.  COMMENTS        S / T / R

==================================================================================================================
==================================================================================================================


9300003          65      03                  61 6/87 COM  GW      6    FL. DEPT. OF TRANSPORTATION                          08
        9300003-10   58 01     8.00  02   85                     65          5       3 GW  02           15/33/35
        9300003-5    58 01     8.00  02   80                     70          5       3 GW  02           15/33/35
        9300003-6    58 01     8.00  02   80                     70          5       3 GW  02           15/33/35
        9300003-7    58 01     8.00  02   80                     70          5       3 GW  02           15/33/35
        9300003-8    58 02     8.00  02   80                     70          5       3 GW  02           15/33/35
        9300003-9    58 02     8.00  02   85                     65          5       3 GW  02           15/33/35

9300005        1.44      01                  93 8/85  AG  GW      1    COOK & SONS ENT. INC. B. C.                          08  13  0.8   31    100  .75
        9300005-1    58 01           02                         250          7       2 GW  08 CAP.EST   28/33/35

9300018          20      03                  93 8/87  AG GW       1    JOHN M. MCCULLERS                                    08  13  0.8   31     40  .75
        9300018-1    58 02    10.00 02    750                   850          8       2 GW  08 CAP.EST
```

APPENDIX D

OBSERVED WATER LEVELS IN THE UPPER FLORIDAN AQUIFER SYSTEM USED IN MODEL CALIBRATION MAY 1989 THROUGH MARCH 1991

APPENDIX D
LIST OF TABLES

TABLE D-1: 1989 Observed Water Levels from Monitor Well Network

MODEL COORDS			WELL NO.	STATE PLANARS (FEET)		1989 OBSERVED WATER LEVEL							
						WATER LEVELS IN FEET OF HEAD/NGVD							
LAY	ROW	COL		EAST	NORTH	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
2	36	22	MF-2	661770	1027509	48.1	48.82				49.08	49.46	48.54
2	32	42	MF-3	766873	1047651	42.54	42.44	42.94	43.94	44.24	44.94	45.79	44.69
2	35	24	MF-9	673406	1031495	47.93	48.54	49.35			49.57	50.18	49.11
2	42	19	MF-23	642188	996134	48.05	47.12	47.76	48.03	48.66	48.85	49.28	48.49
2	36	43	MF-31	768744	1024135	41.75	39.55	41.6	44.75		45.05	44	
2	38	17	MF-33	634439	1016100	46.36	46.78	47.03			47.64	45.87	45.47
2	47	23	MF-35	668237	970484	48.8	49.34	49.64	47.15	47.94	48.74	50.04	49.14
2	42	29	MF-51	699609	992233	49.67	51.02				50.89	50.28	50.04
2	41	29	MF-52	699928	1001121	49.17	49.49				50.05	49.7	48.55
2	34	43	MF-53	770566	1035356	44.01					20.1	44.71	44.46
2	35	43	MF-54	769853	1034038	42.86					42.36	44.86	44.06
2	30	41	MF-55	762663	1056410	41.15	40.65				41.45	31.35	42.05
2	33	10	OKF-3	595533	1039922	43.16	42.63	42.91	43.57		44.12	44.58	43.65
2	22	5	OKF-7	569511	1102271	43.55	44.09	45			45.41	46.11	45.2
2	29	1	OKF-23	547290	1061446	41.2	43.43	42.2			45.43	43.15	42.3
2	31	1	OKF-31	550550	1052261	43.98	43.55	44.86	46.72		45.81	46.47	44.91
2	11	7	OKF-71	583728	1159048	40.47	41.23				41.89	42.66	41.73
2	12	8	OKF-72	585990	1154003	39.65	40.82				40.97	41.7	39.77
2	25	4	OKF-73	562777	1084287	38.82	40.55				41.26	41.88	40.97
2	26	5	OKF-74	569100	1079147	42.61					43.37	43.87	42.86
2	49	48	PBF-1	797130	959197	45.25	44.9	44.9	46	46.9	46.9	48.05	47.35
2	12	26	SLF-3	682529	1151296	37.03	37.34	36.16	38.26		38.33	39.29	37.72
2	14	23	SLF-4	667172	1141333	36.73	37.87				38.46	39.13	38.19
2	10	17	SLF-11	635027	1164842	38.33	39.77				39.94	41.06	39.72
2	24	18	SLF-17	639345	1087204	41.56	42.29				43.37	43.92	41.94
2	17	28	SLF-21	693824	1124690	35	30.69	34.29	33.24	35.88	36.36	36.77	35.81
2	32	24	SLF-23	672337	1049363	47.19	48.38	47.55	48.88		49.07	49.59	48.6
2	20	34	SLF-26	723181	1111916	36.34	36.81				37.13	37.88	
2	20	22	SLF-27	657924	1110699	38.61	35.48	35.14	37.84		39.34	39.7	37.62

TABLE D-1: 1989 Observed Water Levels from Monitor Well Network (Continued)

MODEL COORDS			WELL NO.	STATE PLANARS (FEET)		1989 OBSERVED WATER LEVEL							
						WATER LEVELS IN FEET OF HEAD/NGVD							
LAY	ROW	COL		EAST	NORTH	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
2	15	21	SLF-36	657278	1137759	39.03	36.29	37.26	38.45		38.72	39.62	38.42
2	18	22	SLF-40	662479	1121219	37.69	38.1	39.29	38.89	38.71	39.17	40.03	38.77
2	12	34	SLF-46	724567	1154337	25.91	26.41				29.21	26.36	31.91
2	24	39	SLF-47	749646	1088844	34.01	33 86	33.66	32.66	34.66	36.16	37.11	36.26
2	24	22	SLF-50	662956	1092240	39.8	38.54	39.57	39.63	40.62	41.08	41.6	40.47
2	28	26	SLF-61	682099	1066875	46.9	46.73				48.15	46.65	45.52
2	27	24	SLF-62	672318	1075011	41.96	43.64				42.13	45.4	43.4
2	14	16	SLF-63	627530	1144319	37.99	39.27				39.72	40.4	39.32
2	12	15	SLF-64	621462	1155509	38.98	39.97				40.55	41.32	40.06
2	10	14	SLF-65	616214	1164480	38.31	39.2				38.68	40.12	39.62
2	17	19	SLF-66	644611	1127917	36.25	38.32				39.61	40.27	38.5
2	21	13	SLF-67	611696	1105597	41.17	43.06				44.99	44.24	43.02
2	17	10	SLF-68	598300	1127575	41.21	42.53				42.77	43.23	42.81
2	22	26	SLF-69	680591	1101403	43.5	40.57				41.15	41.53	40.38
2	10	28	SLF-70	693278	1163162	25.11	29.05				29.03	30.94	31.85
2	23	33	SLF-71	719118	1096443	38.15	38.92				38.92	39.92	38.86
2	27	16	SLF-60	629924	1071824						44	44.24	43.64
2	7	33	IR-10	716602	1178731	33.13					31.93	32.88	33.13
2	6	28	IR-40	694162	1185281	34.8					33.29	33.92	32.69
2	7	27	IR-312	684383	1179075	35.13					35.23	36.71	35.49
2	2	27	IR-313	684626	1204423	35.03					36.57	37.01	35.85
2	1	1	IR-365	545220	1216241	49.2					50.28	49.79	50.08
2	8	30	IR-368	705010	1175338	34.07					33.68	34.13	33.18
2	7	19	IR-370	643803	1177697						38.01	38.67	36.83
2	3	14	IR-373	620153	1201754	40.73					42.07	42.09	40.83

TABLE D-2: 1990 Observed Water Levels from Monitor Well Network

WELL NAME	1990 OBSERVED WATER LEVELS IN FEET OF HEAD/NGVD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MF-2	48.41	48.38	48.69	48.05	46.73	47.58	48.22	None	49.01	48.99	None	48.53
MF-3	44.84	44.64	45.04	44.19	43.86	44.69	45.29	Taken	45.29		Taken	44.89
MF-9	48.94	49.38	48.63		47.45	48.09	48.78		49.38	49.24		48.71
MF-23	47.93	48.17	48.53	48.02	46.73	47.31	48.8		48.76			48.33
MF-31					43.6	44.25	44.85		45.75	45.6		45.35
MF-33	46.87	45.66			45.54	46.67	46.82		46.74			
MF-35	47.49	48.69	48.99	48.34	46.68	47.14	48.61		49.54	49.49		48.99
MF-51	50.1	49.85	50.84	49.55	48.54	49.42	50.29					
MF-52	47.33	49.66			50.22	50.22						49.67
MF-53												44.76
MF-54	43.73	43.56			42.36	43.11	43.86		44.76			43.41
MF-55	40.1	42.05	40.35		37.2	40.7	41		39.7			37.15
OKF-3	43.12	43.41	44	42.81	41.03	41.9	43.22		44.33	44.17		43.72
OKF-7	44.72	45.02	45.54	44.08	41.66	43.43	44.75		45.55	45.76		44.88
OKF-23	42.08	40.88	42.28	40.68	39.97	40.56	41.59		41.5			
OKF-31	44.48	43.94			42.15	43.4	45.7		46.92	46.82		45.2
OKF-71	41.05	41.4	41.84	40.39	37.59	39.35	40.99		42.32	41.57		40.79
OKF-72	41.65	41.91	40.48		37.82	39.56	40.98		42.01	42.01		40.29
OKF-73	40.46	40.65	41.32	40.01	38.25	39.34	40.88		42.1	42.14		41.49
OKF-74	43.27	42.58	43.22	41.66	39.89	41.2	42.98		43.7	43.48		42.83
PBF-1	46.9	47.1	47.15		46.4	46.65	47.35		48	47.7		47.8
SLF-3	37.14	37.65	37.86	36.16	32.6	36.31	37.1		39.05	38.85		36.76
SLF-4	37.56	37.95	38.4	36.93	33.86	36.23	37.4		38.44	38.56		37.59
SLF-11	39.22	39.45	40.03	38.43	34.65	37.5	39.16					39.06
SLF-17	40.87	42.47	42.39	40.94	36.07	41.1	42.4		43.45	43.41		42.65
SLF-21	35.63	35.28	36.09	34.62	28.97	34.45	36.21		37.26	37.52		34.78
SLF-23	48.19	48.2	48.22	47.77	43.46	46.01	46.62					
SLF-26												
SLF-27	38.18	38.25	38.75	37.49	33.3	36.89	38.45		38.97	39.21		37.4

TABLE D-2: 1990 Observed Water Levels from Monitor Well Network (Continued)

WELL NAME	1990 OBSERVED WATER LEVELS IN FEET OF HEAD/NGVD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SLF-36	38.02	38.20	38.86	37.52	35.45	36.6	38.11		39.13	39.14		37.67
SLF-40	38.61	38.69	39.29	37.88	34.83	37.07	38.47		39.56	39.87		38.44
SLF-46	29.21	31.31	25.46	30.11	28.26	30.11						30.91
SLF-47	32.46	32.41	32.81	29.76	31.51	34.16	33.51		34.71	33.31		36.91
SLF-50	40.34	40.48	40.77	39.78	37.28	39.09	40.19		41.17	41.15		40.19
SLF-61	45.47	45.49	45.8	44.97	42.7	44.25	45.02		46.1	46.03		45.4
SLF-62	43.37	43.40	43.56	42.89	40.91	42.29	43.53		44.06	44.16		43.86
SLF-63	38.71	38.92	27.69	37.91	35.7	36.82	38.82		40.06	40		38.47
SLF-64	39.68	40	40.38	39.05	36.71	37.93	40.1		41	41.22		39.48
SLF-65	39.04	39.26	39.77	38.42	31.68	37.29	39.35		40.08	39.99		38.94
SLF-66	38.51	38.39	39.23	37.13	35.25	36.53	38.58		39.73	39.57		37.72
SLF-67	42.94	42.88	43.23	42.06	39.57	41.44	42.73		43.64	43.44		42.19
SLF-68	42.72	42.84	43.12	42.19	39.26	41.22	42.56		43.64			42.55
SLF-69	40.34	40.37	40.66	39.8	36.92	39.09	40.19		41.11	41.15		39.68
SLF-70	31.48	31.78	32.54	30.38	26.01	30.21	32		33.86	33.66		30.63
SLF-71	37.86	38.81	39.31	38.11	37.01	37.91	39.11		40.36	40.21		39.51
SLF-60	43.65	43.44			42.53	43.08	43.85		43.95			
IR-10												
IR-40	32.24	32.48	33.08	31.54	28.95	30.5	31.78		33.35	33.29		32.29
IR-312	33.69	34.23	35.62	33.41	29.04	33.74	34.32		36.11	37.15		33.52
IR-313	34.98	35.75	35.99	34.72	31.74	33.24	34.64		36.42	36.26		35.41
IR-365	49.85	50.29	49.63		48.14	48.69	49.6		51.31	51.37		50.81
IR-368	32.73	33.78	34.53	32.83	29.88	31.23	32.13		33.48	33.53		32.48
IR-370	37.25	37.46	36.29		31.92	35.41	36.71		38.13	38.01		36.6
IR-373	40.23	40.7	41.18	39.68	35.95	37.52	40.13		41.45	41.57		40.55

TABLE D-3: 1991 Observed Water Levels from Monitor Well Network

1991 OBSERVED WATER LEVELS IN FEET OF HEAD/NGVD							
WELL#	JAN	FEB	MAR	WELL#	JAN	FEB	MAR
MF-2	47.86	48.89	48.75	SLF-26			
MF-3	44.24	45.24	45.19	SLF-27	36.12	39.37	38.97
MF-9	48.42	49.83	49.27	SLF-36	36.75	38.94	38.76
MF-23	47.69	48.43	48.45	SLF-40	37.21	39.29	39.17
MF-31	44.7	45.4	45.45	SLF-46	28.56	28.31	31.81
MF-33				SLF-47	32.16	34.21	35.36
MF-35	46.96	47.94	48.49	SLF-50	39.38	40.98	40.72
MF-51				SLF-61	44.65	45.86	
MF-52	47.48	49.94	49.8	SLF-62	43.01	44.23	44.35
MF-53				SLF-63	37.61	39.83	40.10
MF-54	43.41	43.96	44.96	SLF-64	38.52	41.04	40.81
MF-55	40.50	43.6	40.05	SLF-65	37.91	39.79	39.67
OKF-3	42.76	43.94	43.92	SLF-66	36.06	38.93	38.74
OKF-7	44.3	45.46	45.29	SLF-67	41.47	43.60	43.37
OKF-23				SLF-68	42.12	44.46	44.22
OKF-31	43.62	45.38	45.07	SLF-69	39.34	41.23	40.67
OKF-71	39.88	41.88	43.36	SLF-70	29.68	33.82	33.46
OKF-72	42.27	41.97		SLF-71	38.46	40.06	39.56
OKF-73	40.74	42.2	41.91	SLF-60			
OKF-74	42.74	43.98	43.83	IR-10			
PBF-1	46.9	47.75	48.2	IR-40	31.10	33.36	32.98
SLF-3	35.67	38.82	38.4	IR-312	32.60	36.69	35.89
SLF-4	36.52	38.74	38.36	IR-313	34.06	36.30	36.77
SLF-11	37.87			IR-365	50.57	51.02	50.84
SLF-17	39.45	43.43	43.88	IR-368	31.53	33.38	33.13
SLF-21	33.11	36.86	36.9	IR-370	35.71		
SLF-23				IR-373	38.86	41.72	41.38

APPENDIX E

COMPUTED AND OBSERVED HYDROGRAPHS REPRESENTING MONITOR WELLS MAY 1989 THROUGH MARCH 1991

APPENDIX E

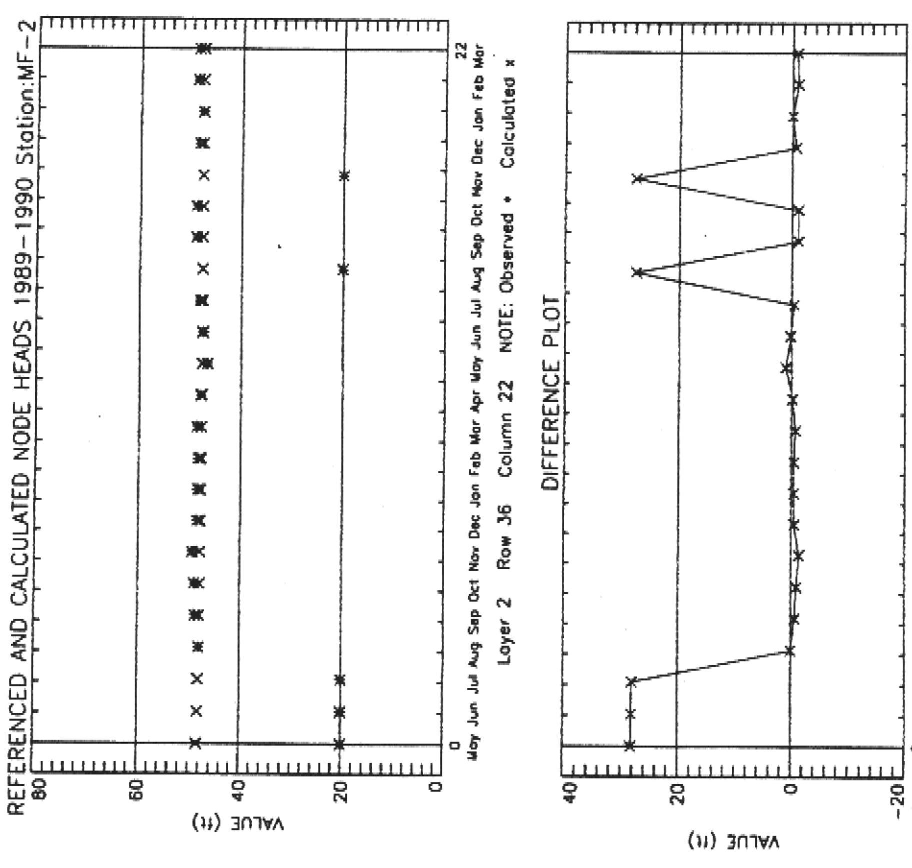
INTRODUCTION

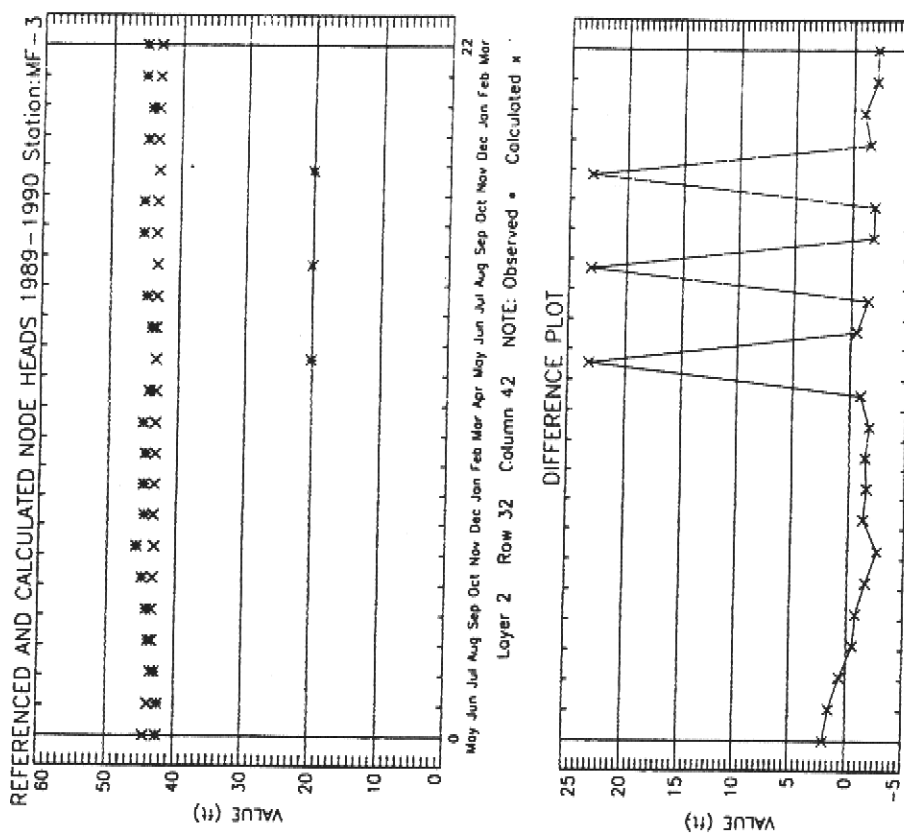
Comparative hydrographs were developed to compare computed and observed monthly water levels. The period of record graphed was May 1989 to March 1991. Some wells did not have a complete record of 23 observed water levels. In these cases, a standard value of +20 feet was assigned the missing month. Therefore, when reading the hydrographs, ignore all observed levels with this value.

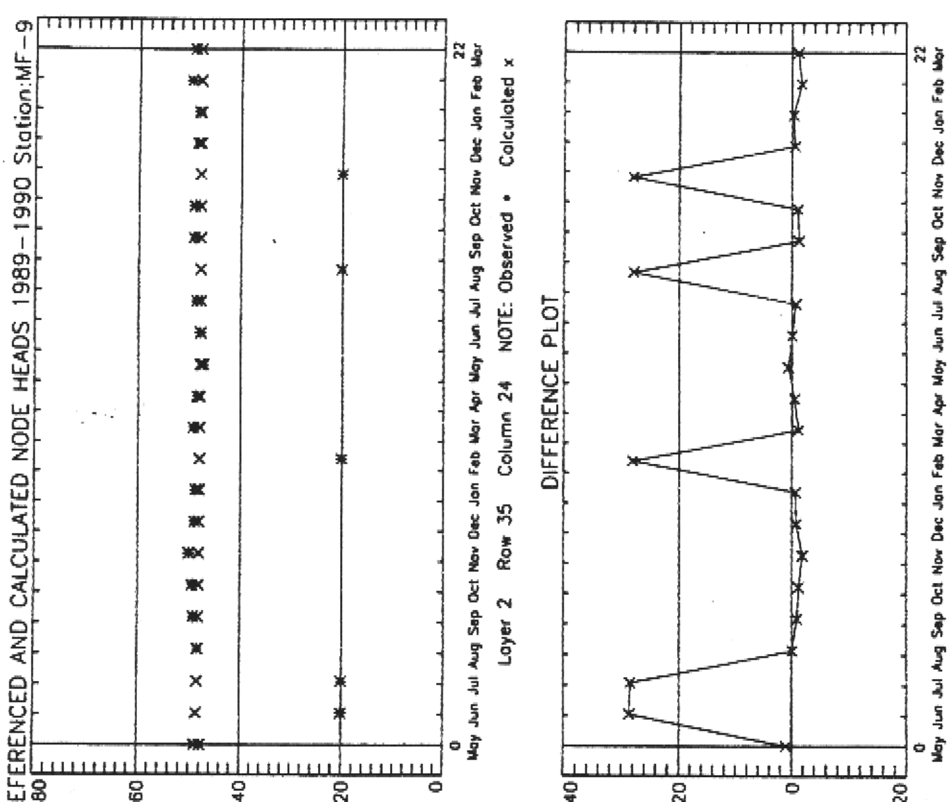
The codes used were:

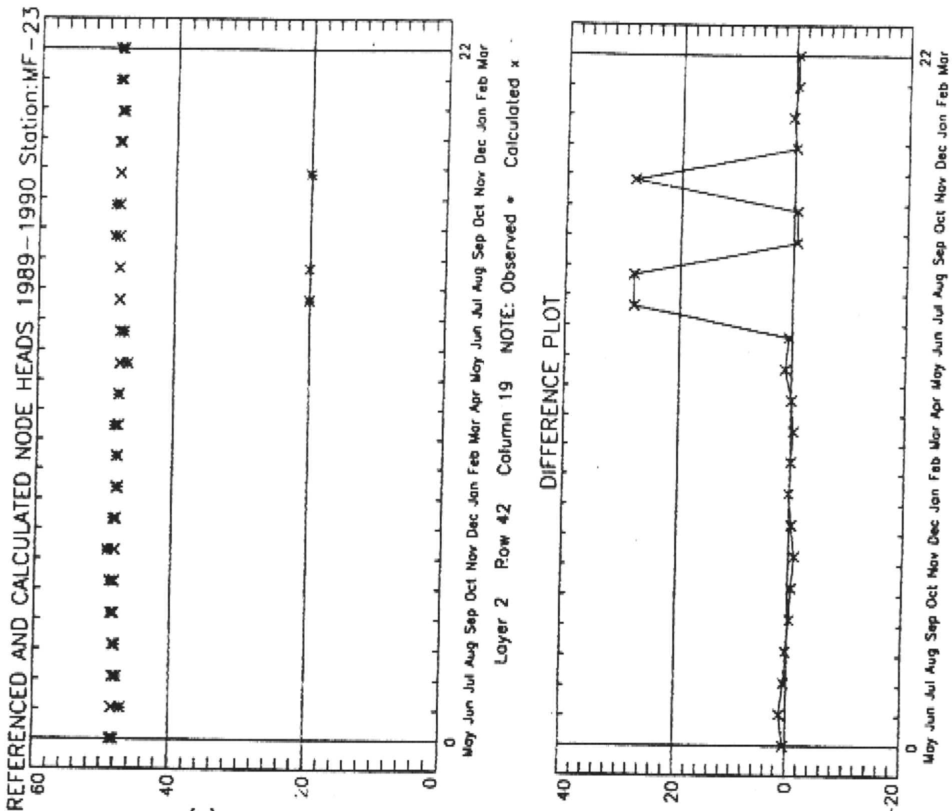
* = Observed water level

X = Computed water level

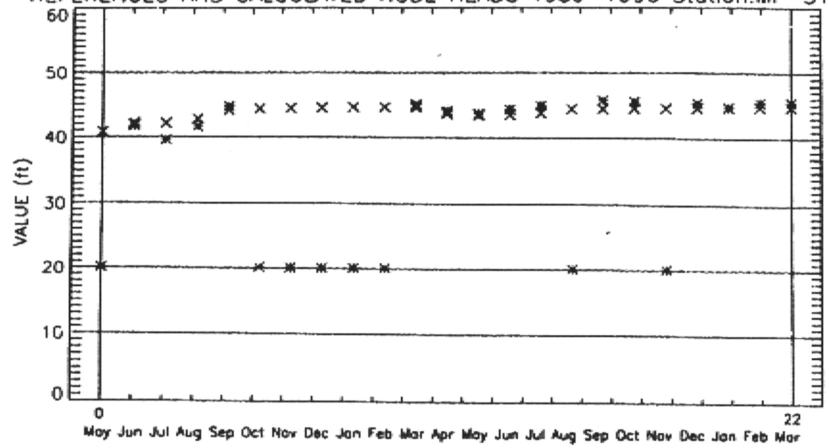

REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:MF-2
VALUE (ft)
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
Layer 2 Row 36 Column 22 NOTE: Observed * Calculated x
DIFFERENCE PLOT


REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:MF-3
VALUE (ft)
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
Layer 2 Row 32 Column 42 NOTE: Observed * Calculated x
DIFFERENCE PLOT


REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:MF-9
VALUE (ft)
Layer 2 Row 35 Column 24 NOTE: Observed * Calculated x
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
0
22
80
60
40
20
0
DIFFERENCE PLOT
VALUE (ft)
40
20
0
-20

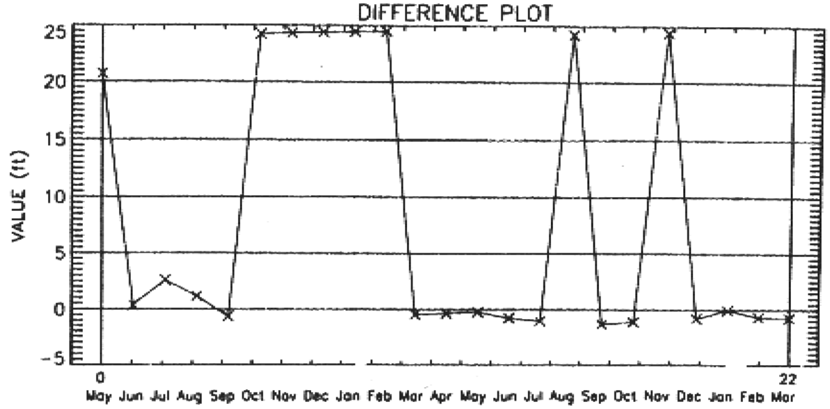

REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:MF-23
VALUE (ft)
Layer 2 Row 42 Column 19 NOTE: Observed * Calculated x
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
0
22
60
40
20
0
DIFFERENCE PLOT
VALUE (ft)
40
20
0
-20

REFERENCED AND CALCULATED NODE HEADS 1989–1990 Station:MF-31

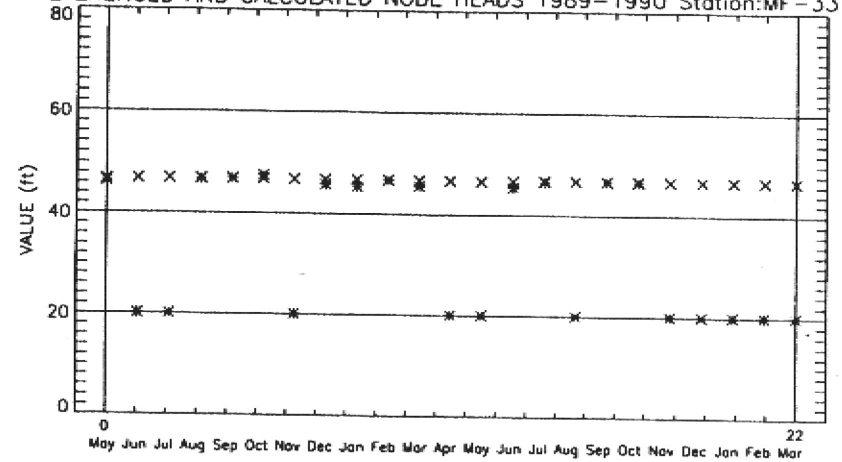


Layer 2 Row 36 Column 43 NOTE: Observed * Calculated x

DIFFERENCE PLOT

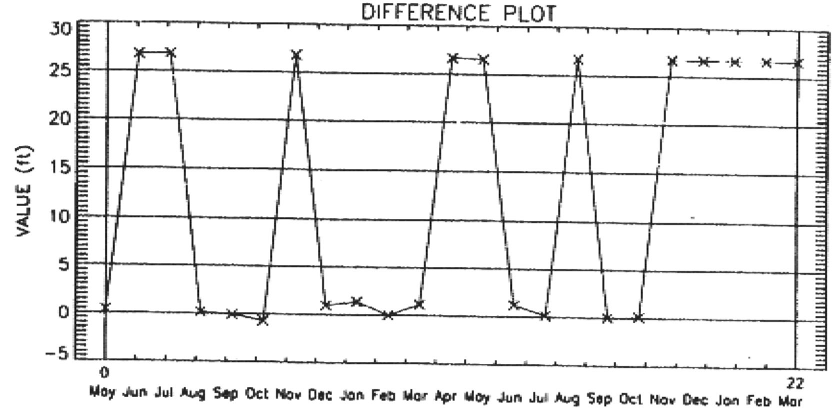


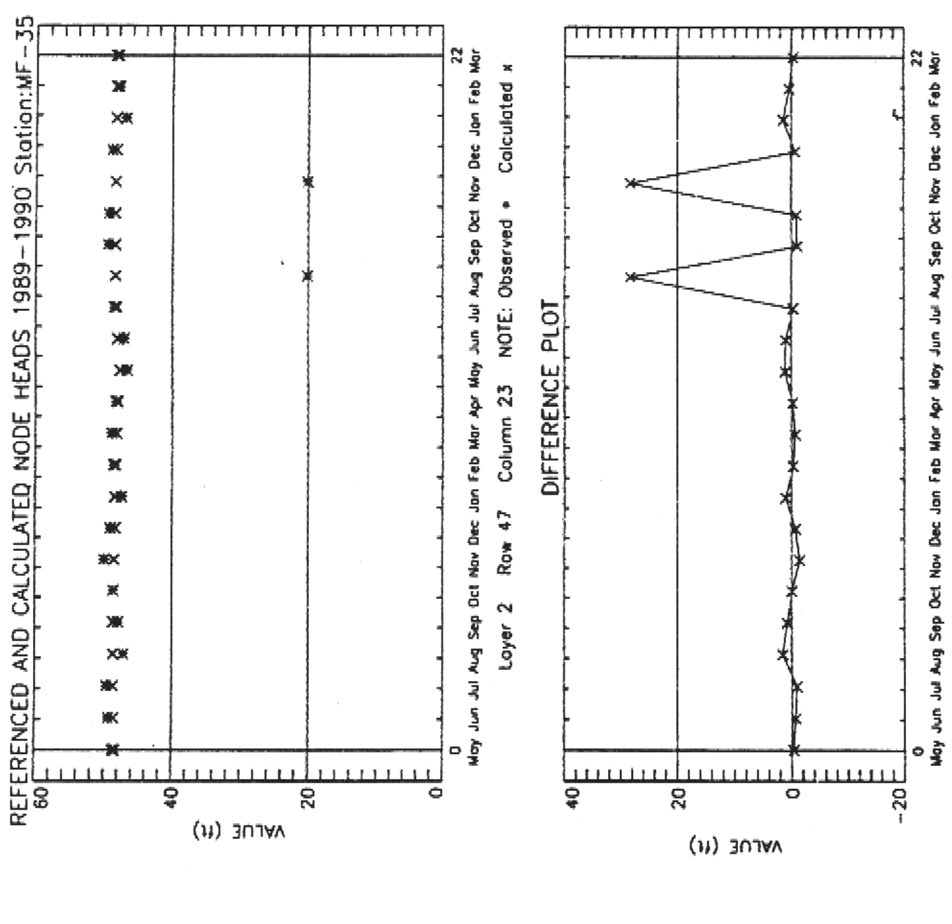
REFERENCED AND CALCULATED NODE HEADS 1989–1990 Station:MF-33



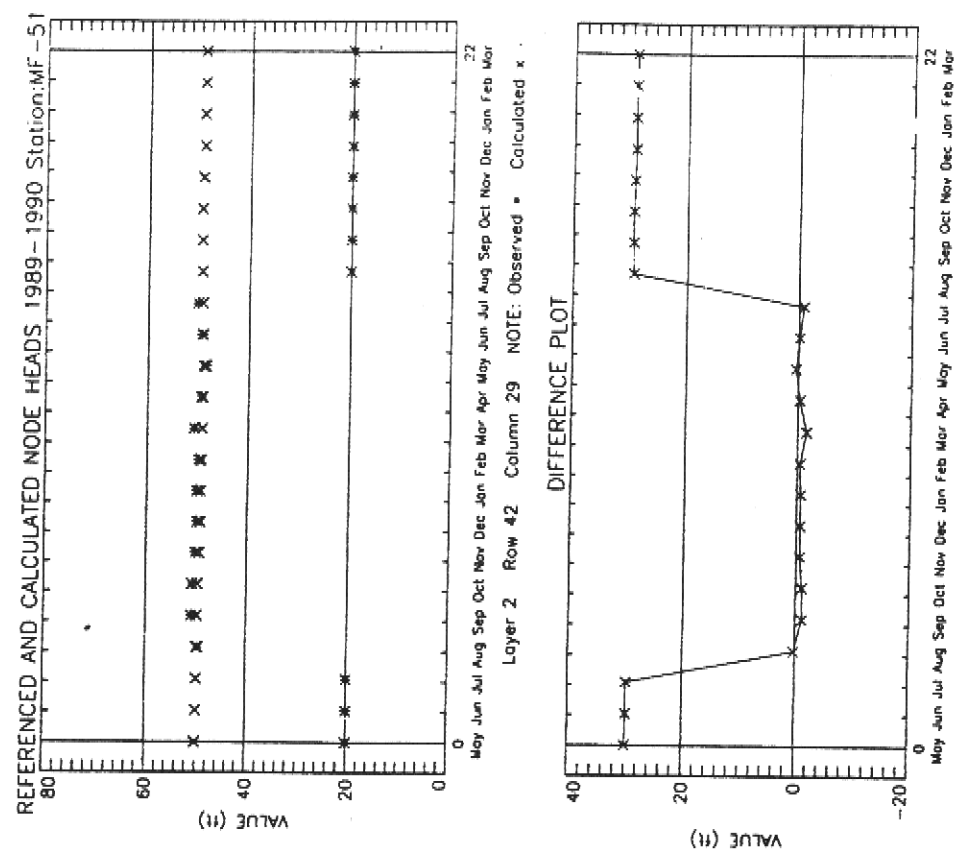
Layer 2 Row 38 Column 17 NOTE: Observed * Calculated x

DIFFERENCE PLOT

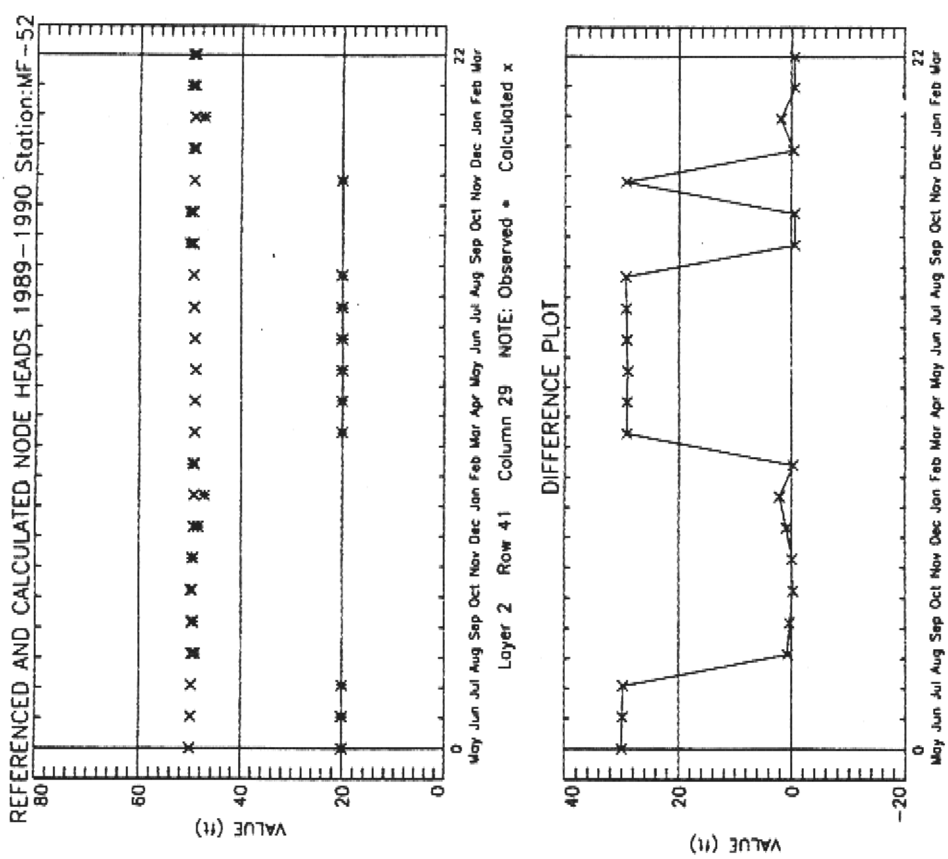


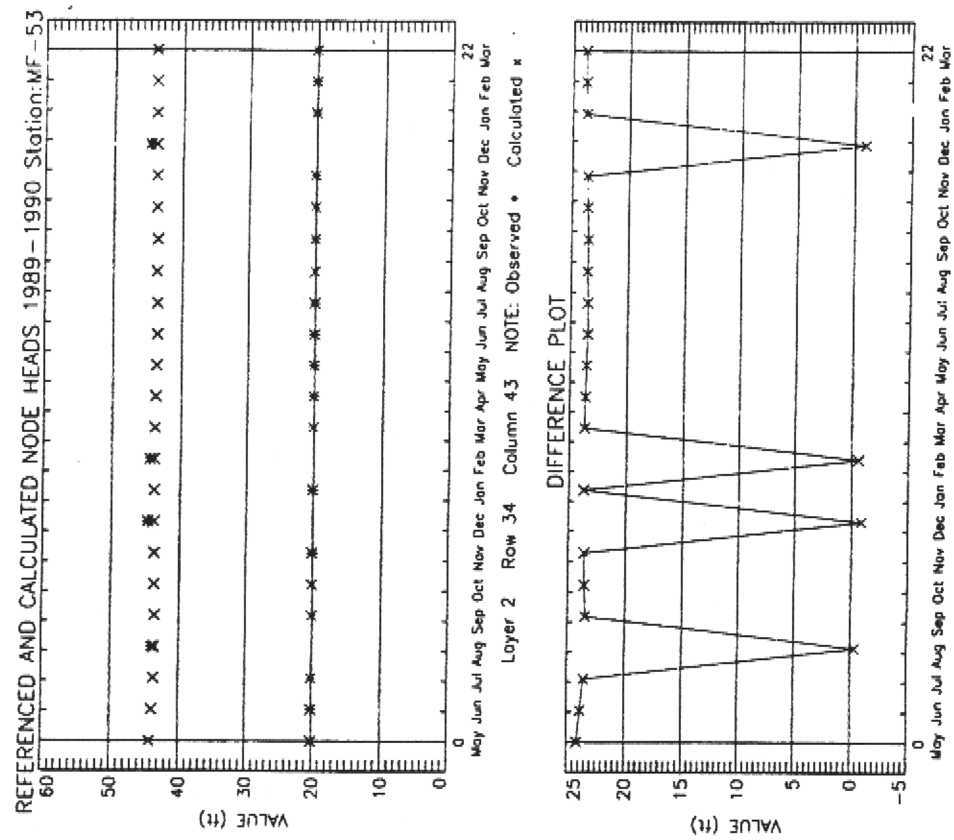


REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:MF-35
VALUE (ft)
Layer 2 Row 47 Column 23 NOTE: Observed * Calculated x
DIFFERENCE PLOT
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar

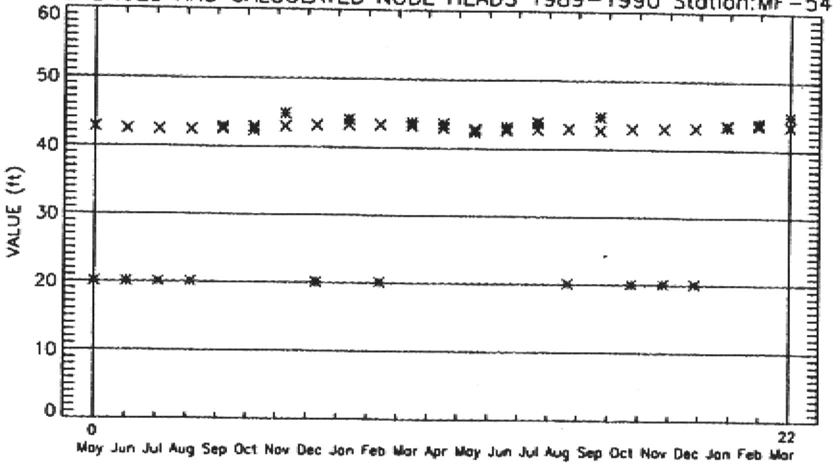


REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:MF-51
VALUE (ft)
Layer 2 Row 42 Column 29 NOTE: Observed * Calculated x
DIFFERENCE PLOT
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar


REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:MF-52
VALUE (ft)
Layer 2 Row 41 Column 29 NOTE: Observed * Calculated x
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
DIFFERENCE PLOT
VALUE (ft)

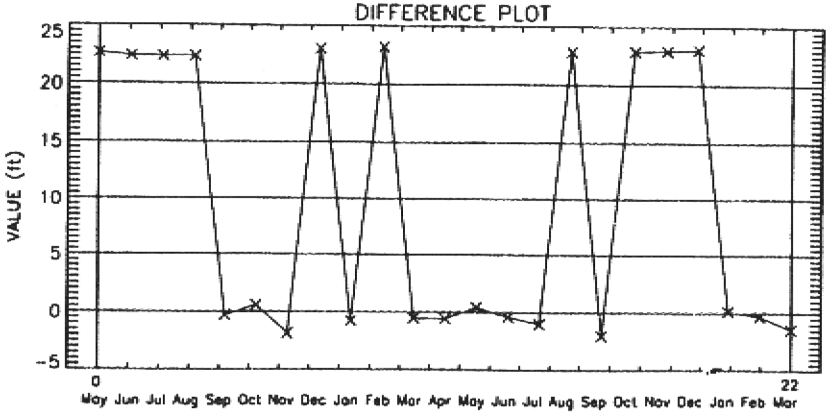

REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:MF-53
VALUE (ft)
Layer 2 Row 34 Column 43 NOTE: Observed * Calculated x
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
DIFFERENCE PLOT
VALUE (ft)

REFERENCED AND CALCULATED NODE HEADS 1989–1990 Station:MF–54

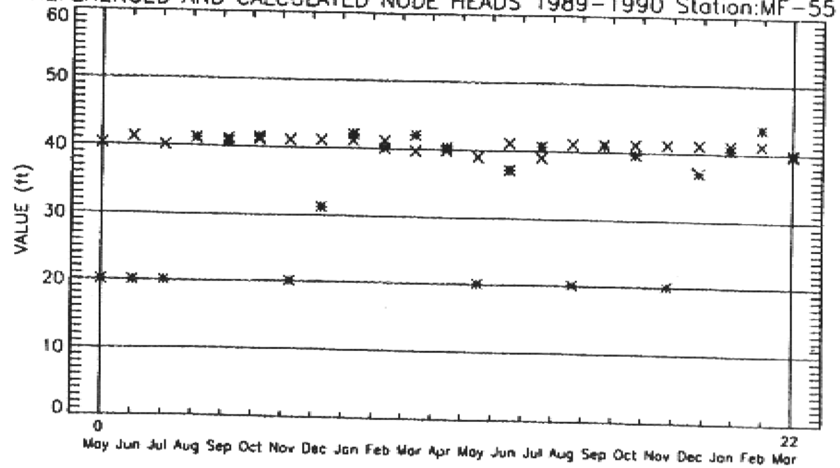


Layer 2 Row 35 Column 43 NOTE: Observed * Calculated x

DIFFERENCE PLOT

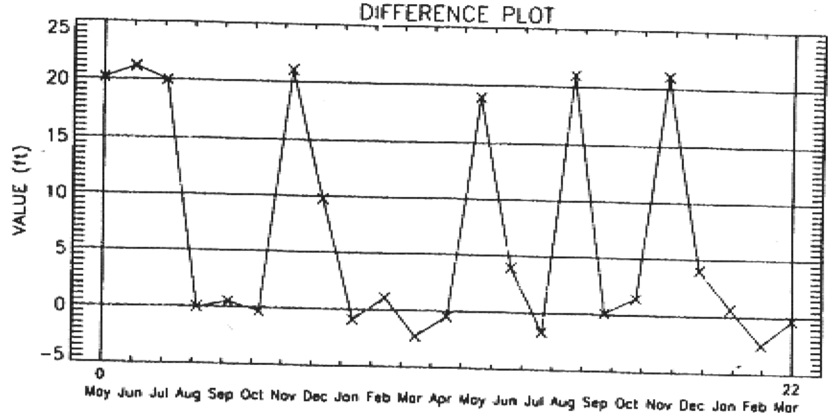


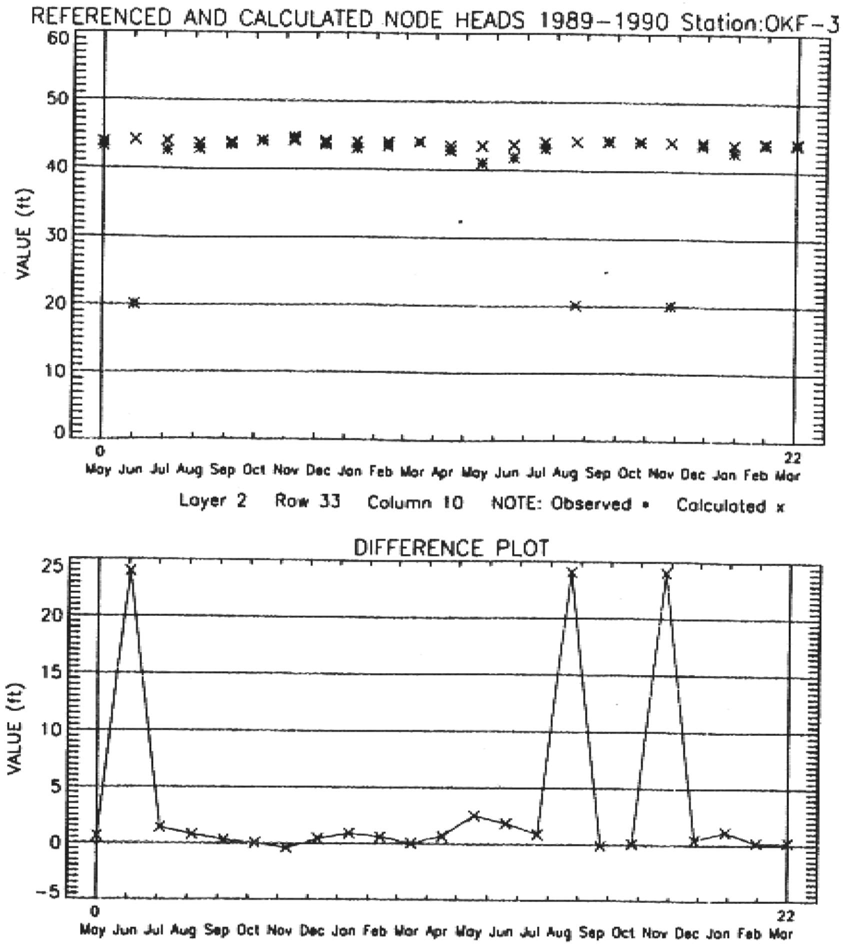
REFERENCED AND CALCULATED NODE HEADS 1989–1990 Station:MF–55

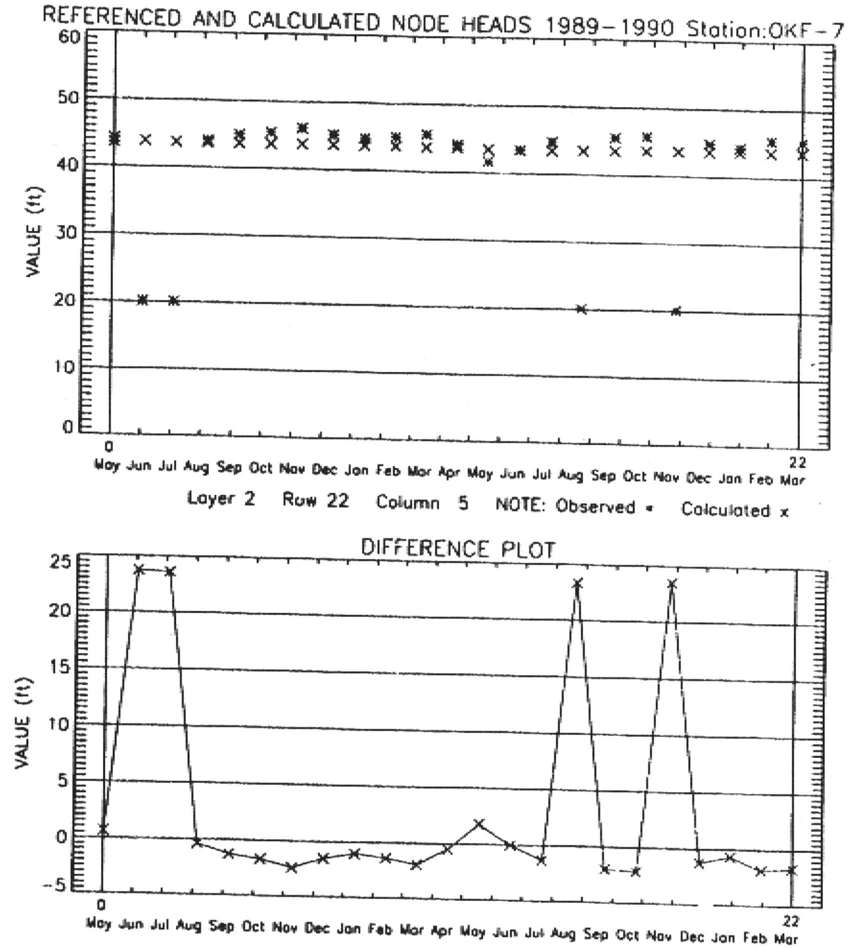


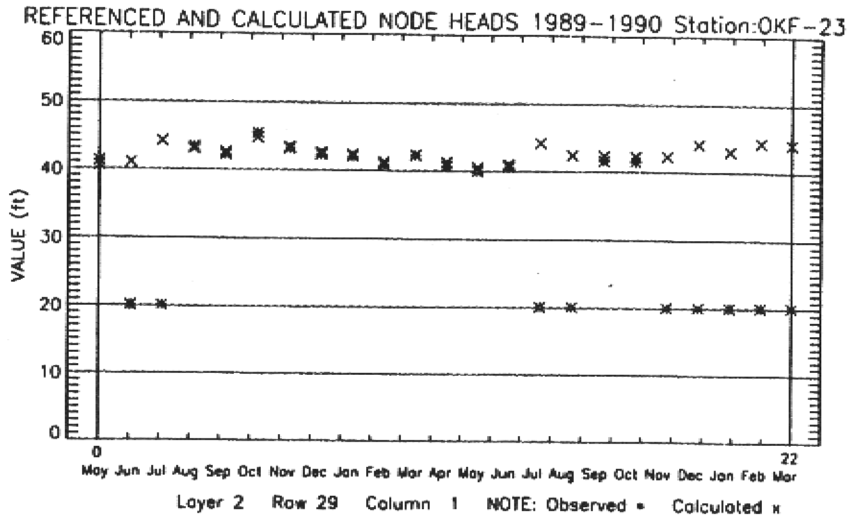
Layer 2 Row 30 Column 41 NOTE: Observed * Calculated x

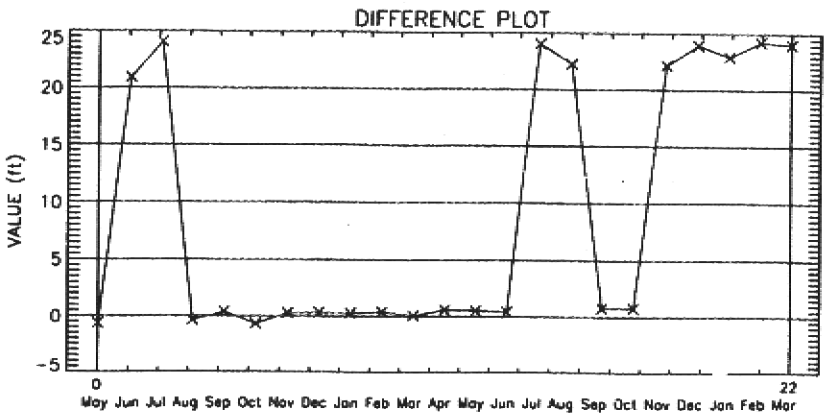
DIFFERENCE PLOT

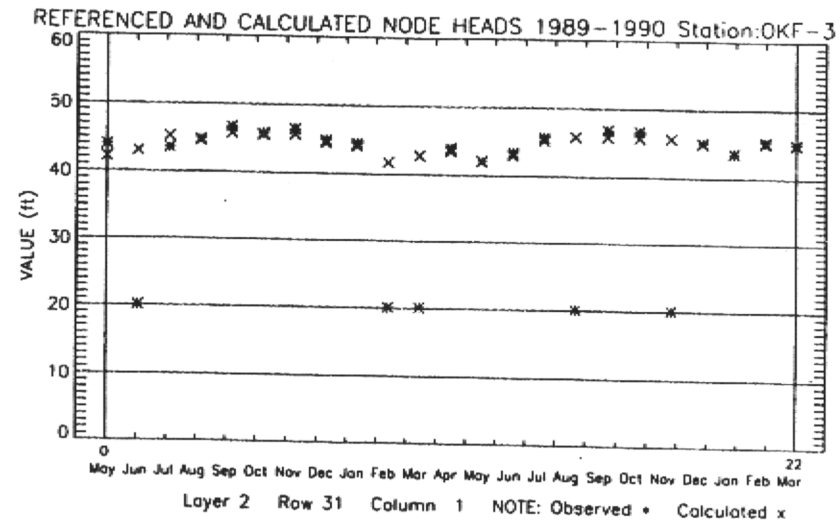


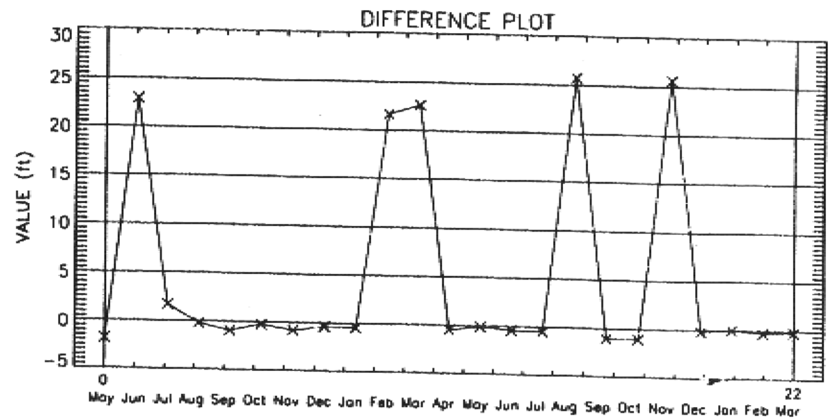

REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:OKF-3
VALUE (ft)
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
Layer 2 Row 33 Column 10 NOTE: Observed * Calculated x
DIFFERENCE PLOT
VALUE (ft)
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar

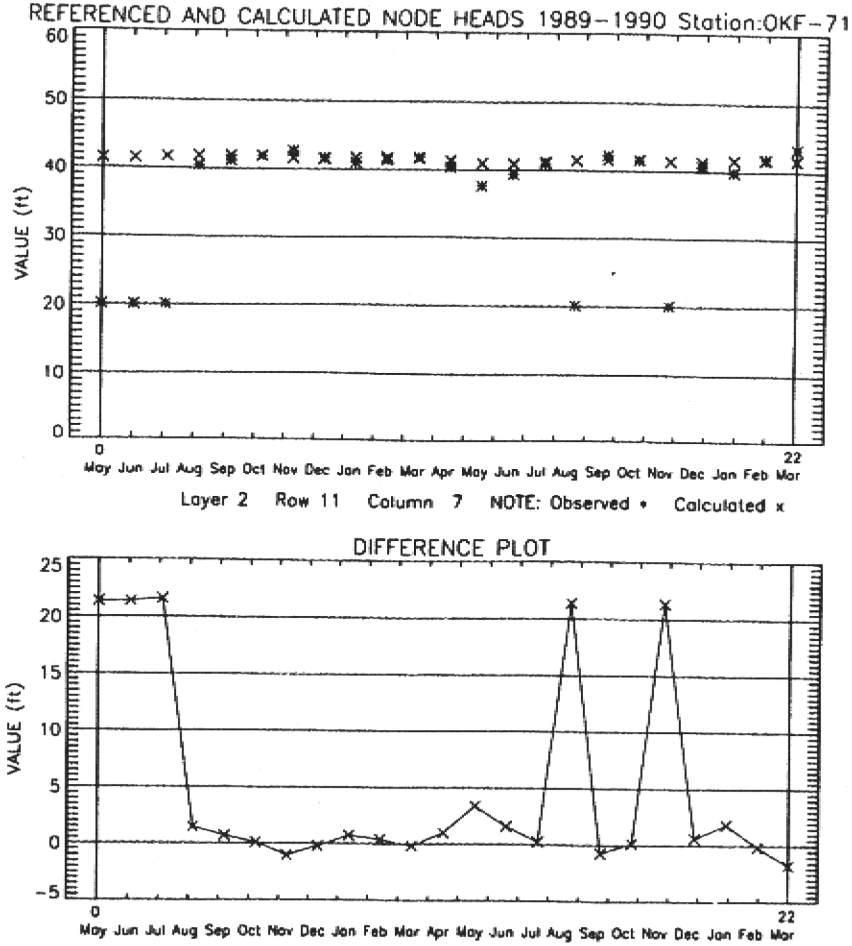

REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:OKF-7
VALUE (ft)
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
Layer 2 Row 22 Column 5 NOTE: Observed * Calculated x
DIFFERENCE PLOT
VALUE (ft)
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar

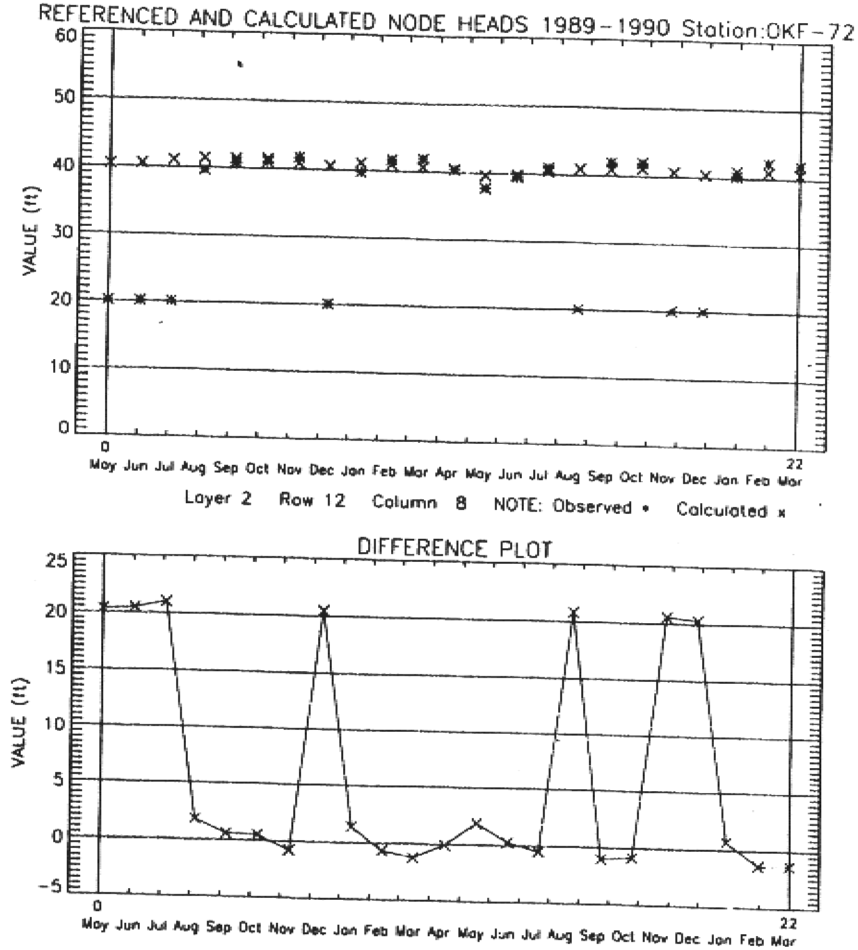

REFERENCED AND CALCULATED NODE HEADS 1989–1990 Station:OKF–23
VALUE (ft)
60
50
40
30
20
10
0
0
22
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
Layer 2 Row 29 Column 1 NOTE: Observed * Calculated x

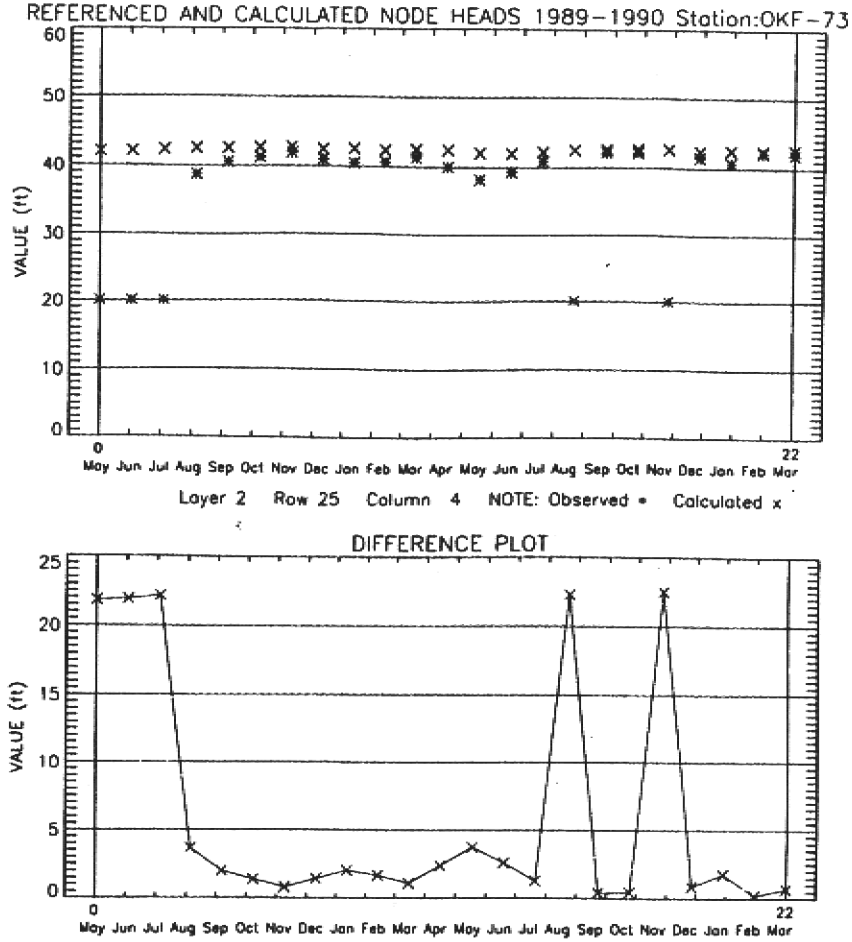

DIFFERENCE PLOT
VALUE (ft)
25
20
15
10
5
0
-5
0
22
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar

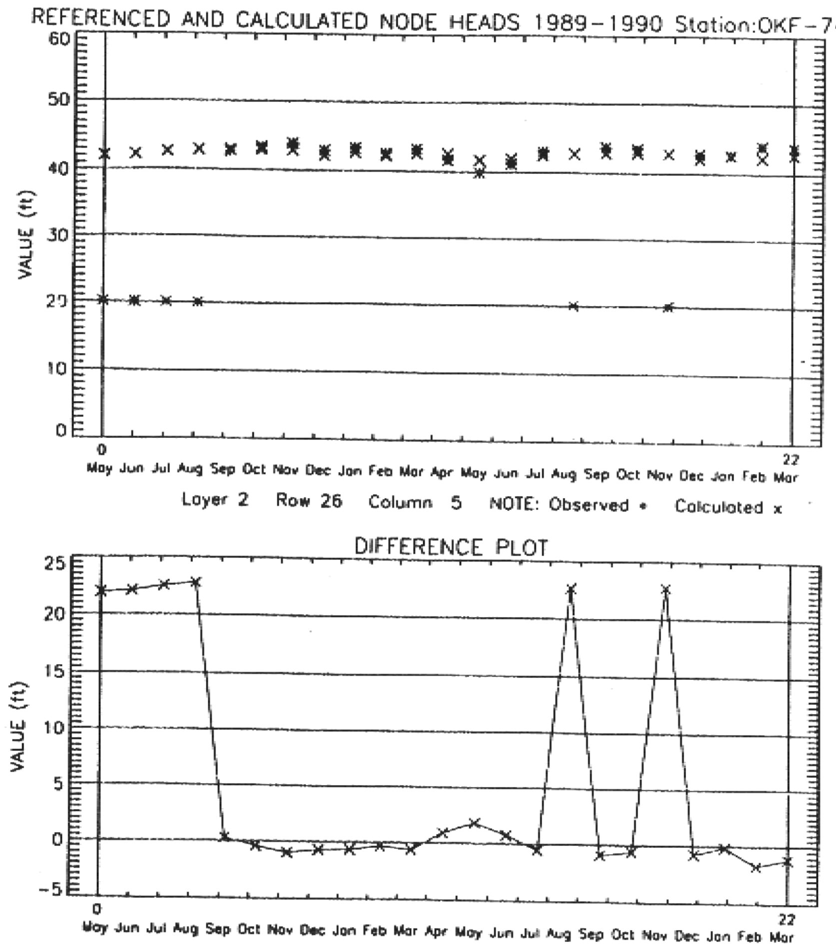

REFERENCED AND CALCULATED NODE HEADS 1989–1990 Station:OKF–31
VALUE (ft)
60
50
40
30
20
10
0
0
22
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
Layer 2 Row 31 Column 1 NOTE: Observed * Calculated x

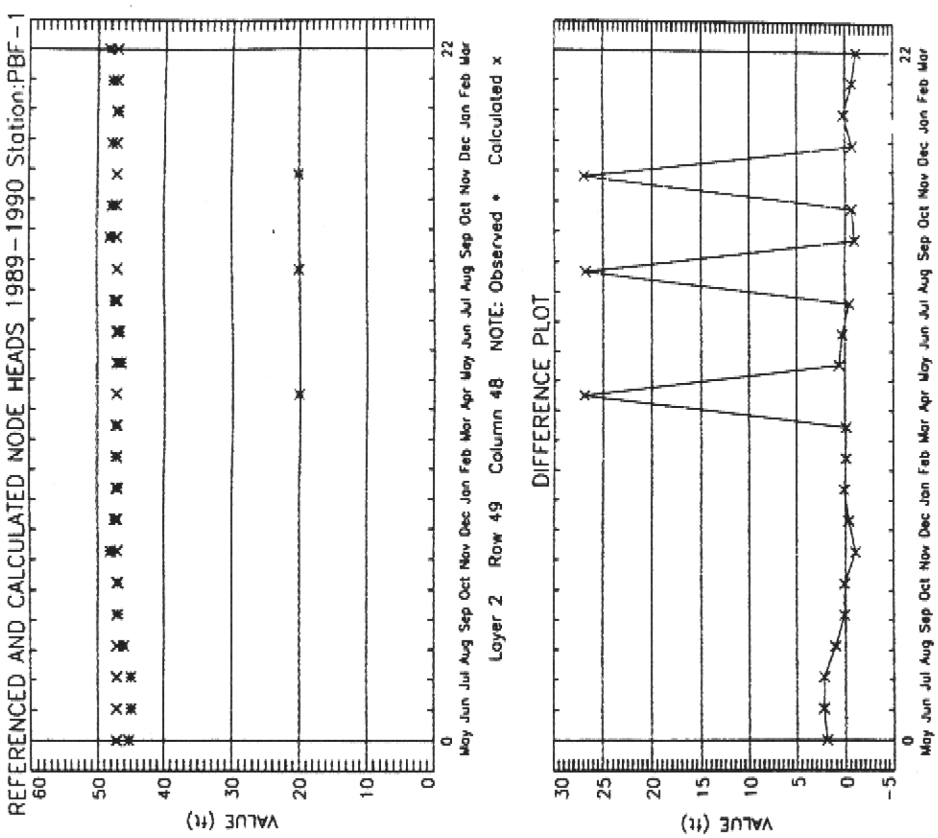

DIFFERENCE PLOT
VALUE (ft)
30
25
20
15
10
5
0
-5
0
22
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar

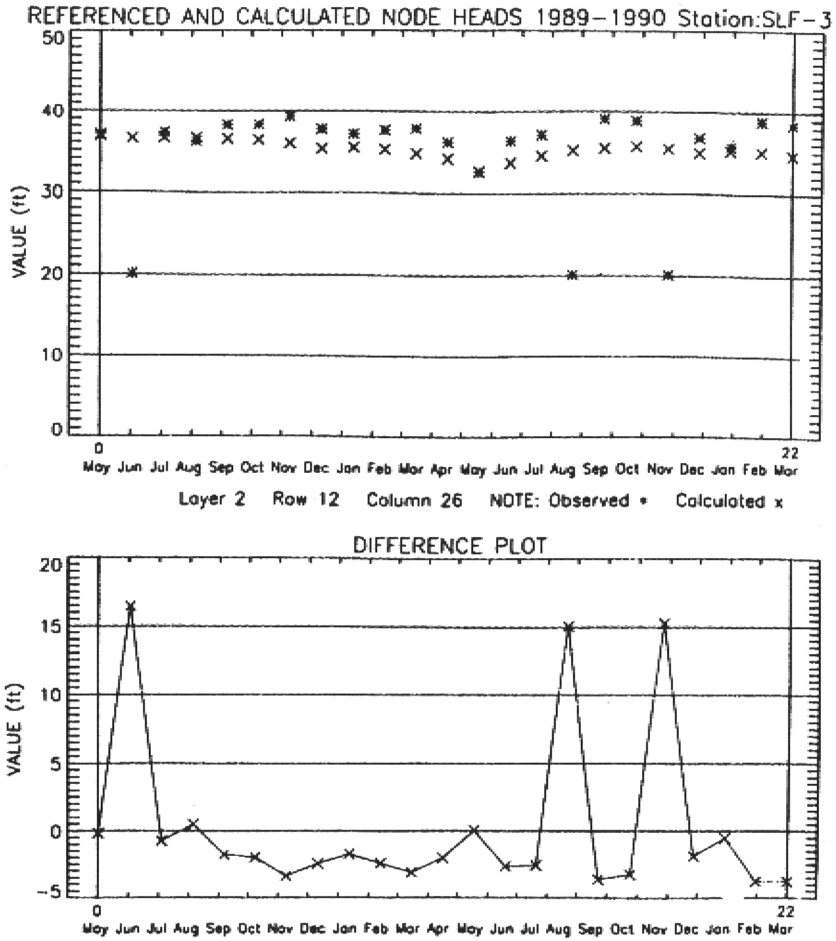

REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:OKF-71
VALUE (ft)
60
50
40
30
20
10
0
0
22
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
Layer 2 Row 11 Column 7 NOTE: Observed * Calculated x
DIFFERENCE PLOT
VALUE (ft)
25
20
15
10
5
0
-5
0
22
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar

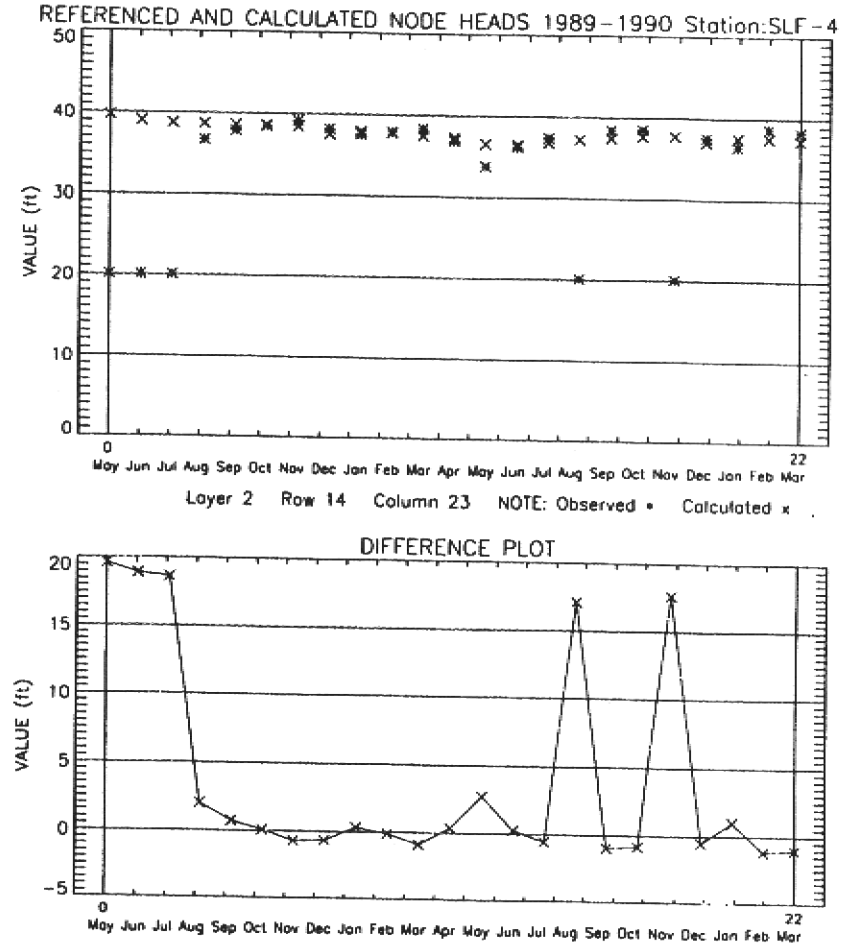

REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:OKF-72
VALUE (ft)
60
50
40
30
20
10
0
0
22
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
Layer 2 Row 12 Column 8 NOTE: Observed * Calculated x
DIFFERENCE PLOT
VALUE (ft)
25
20
15
10
5
0
-5
0
22
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar

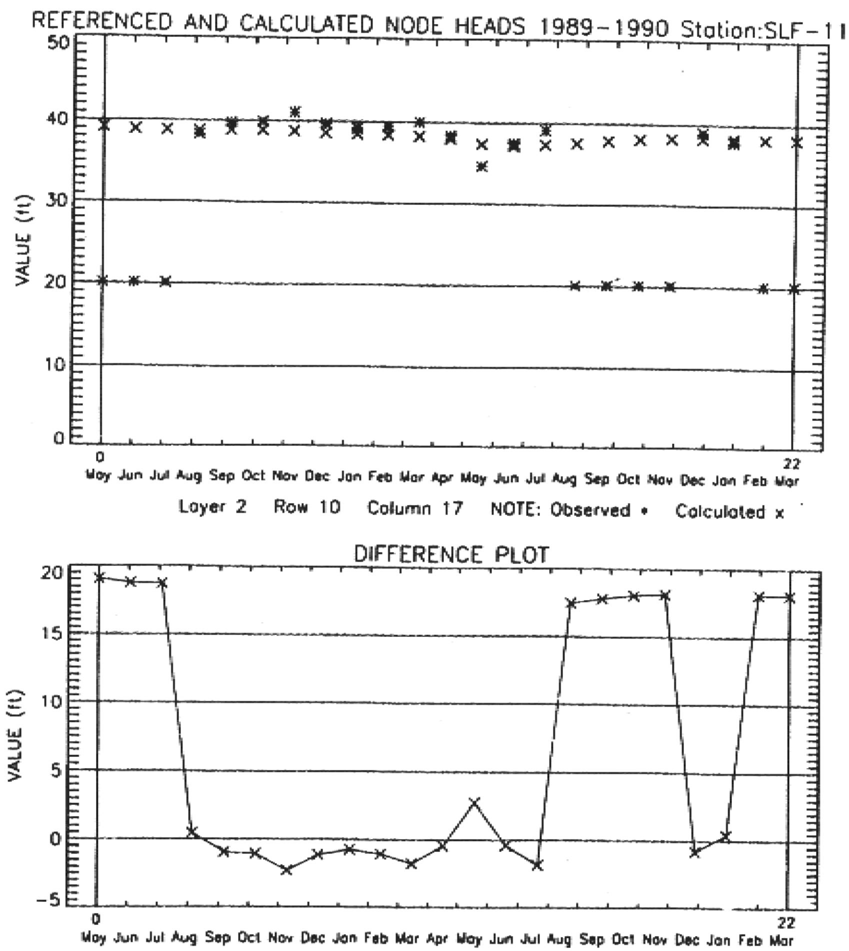

REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:OKF-73
VALUE (ft)
60
50
40
30
20
10
0
0
22
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
Layer 2 Row 25 Column 4 NOTE: Observed * Calculated x
DIFFERENCE PLOT
25
20
15
10
5
0

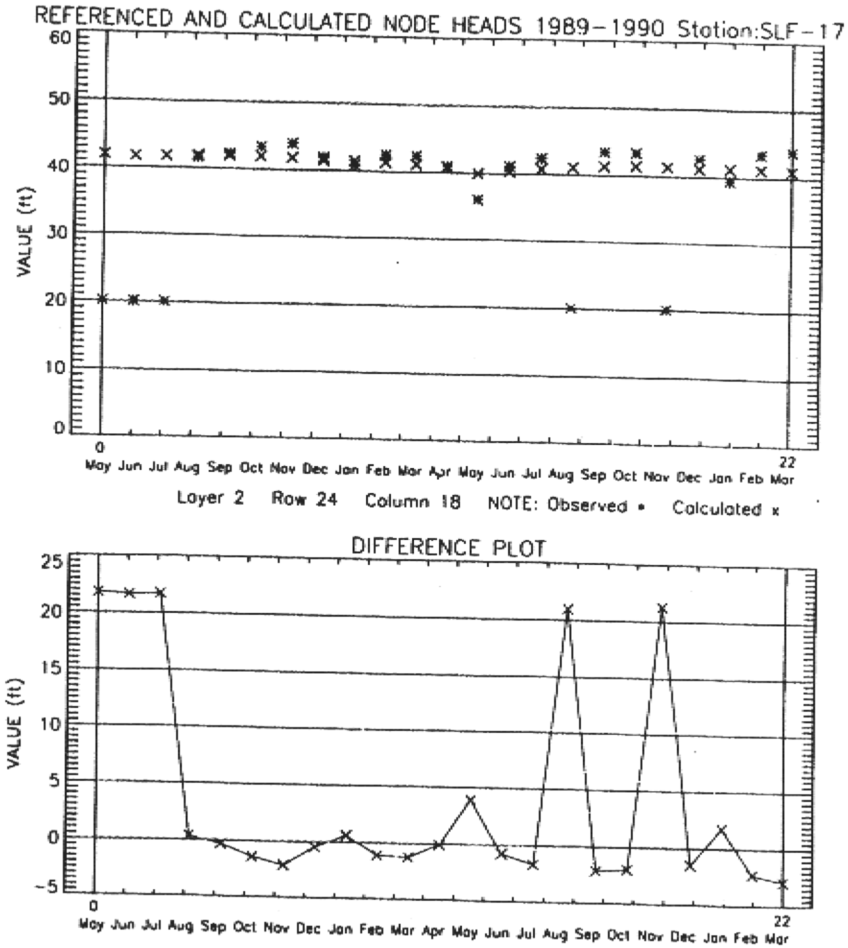

REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:OKF-74
VALUE (ft)
60
50
40
30
20
10
0
0
22
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
Layer 2 Row 26 Column 5 NOTE: Observed * Calculated x
DIFFERENCE PLOT
25
20
15
10
5
0
-5

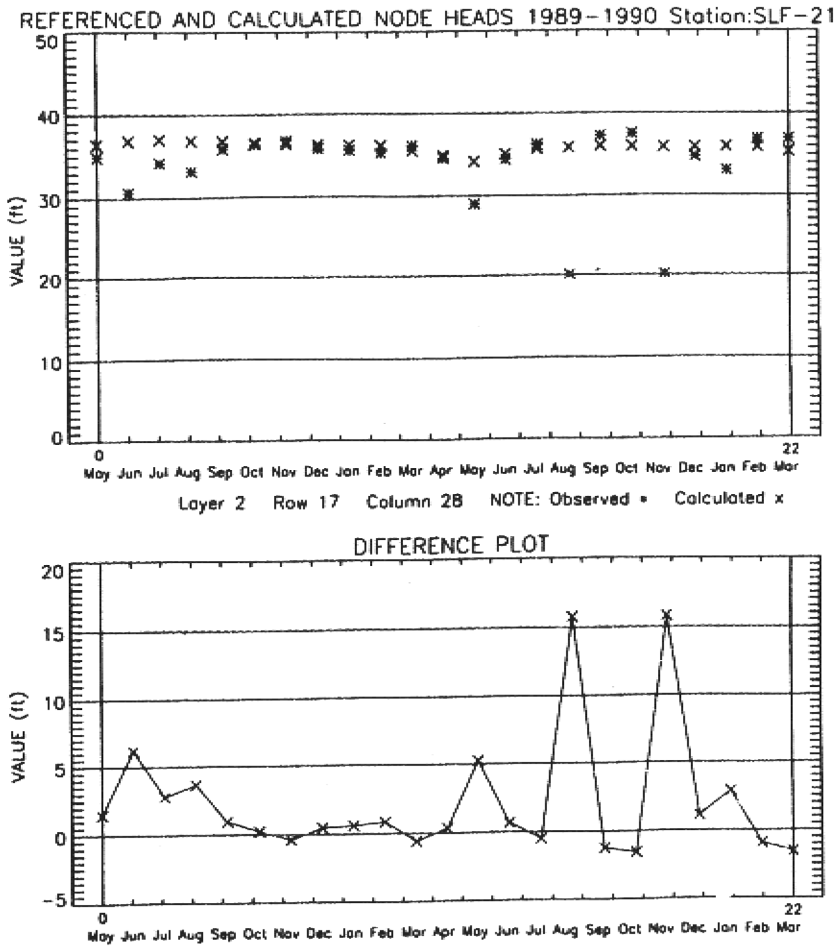

REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:PBF-1
VALUE (ft)
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
Layer 2 Row 49 Column 48 NOTE: Observed * Calculated x
DIFFERENCE PLOT
VALUE (ft)
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar

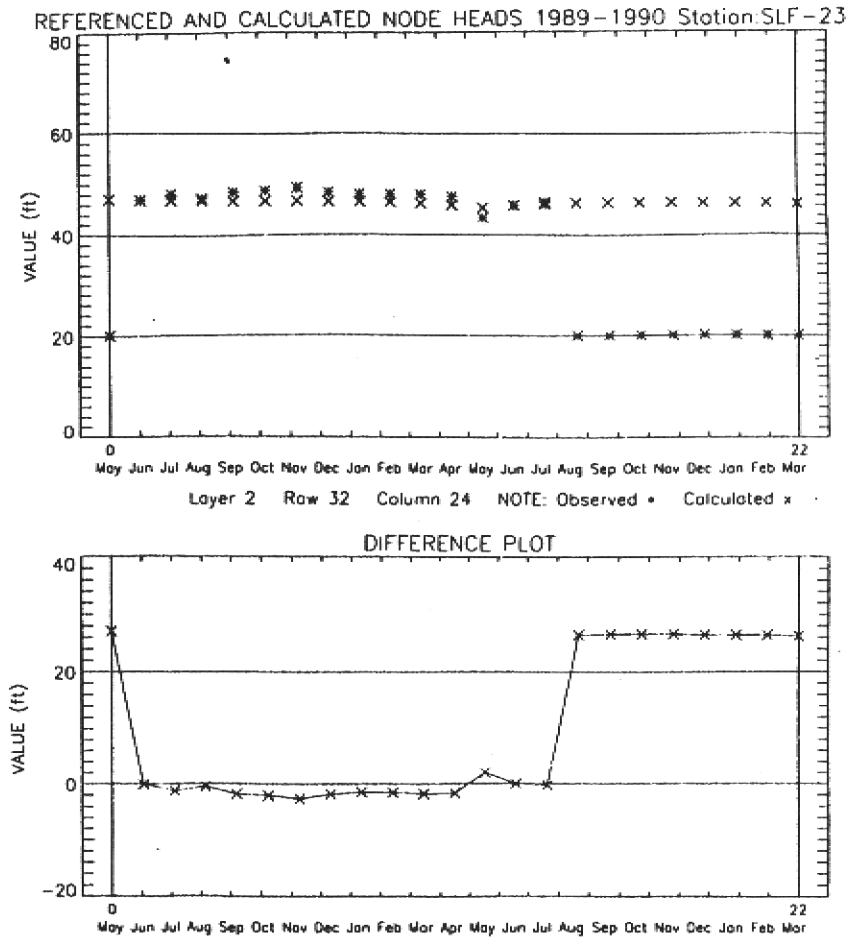

REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:SLF-3
VALUE (ft)
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
Layer 2 Row 12 Column 26 NOTE: Observed * Calculated x
DIFFERENCE PLOT
VALUE (ft)
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar

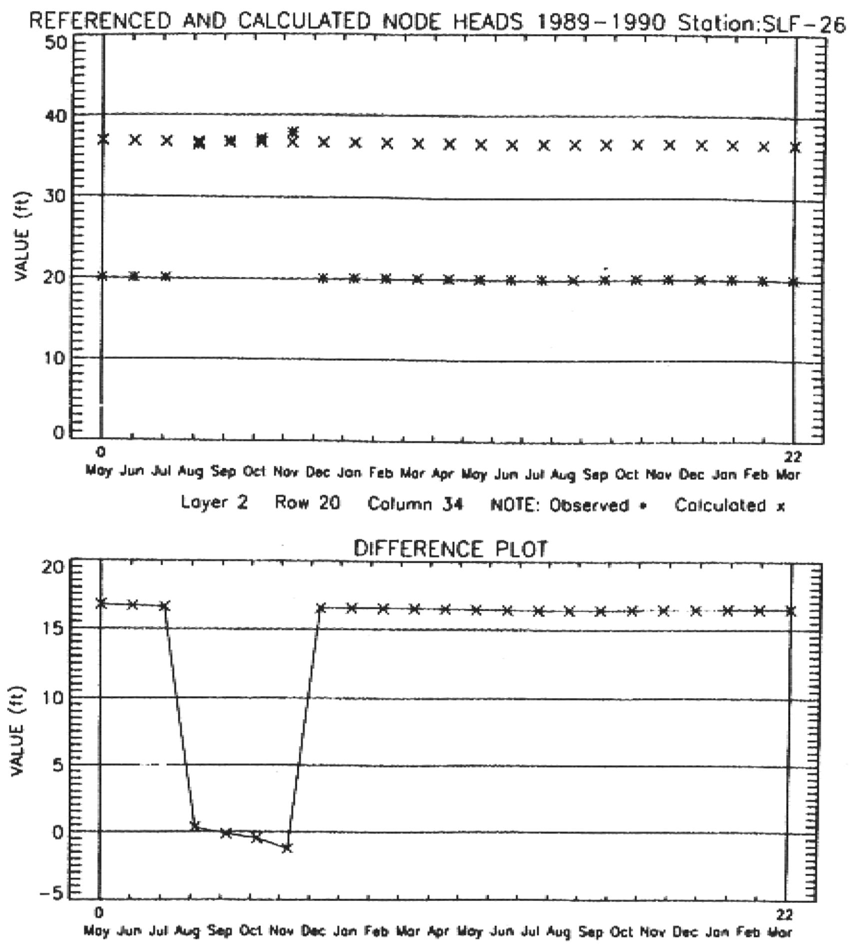

REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:SLF-4
VALUE (ft)
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
Layer 2 Row 14 Column 23 NOTE: Observed * Calculated x
DIFFERENCE PLOT
VALUE (ft)
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar


REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:SLF-11
VALUE (ft)
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
Layer 2 Row 10 Column 17 NOTE: Observed * Calculated x
DIFFERENCE PLOT
VALUE (ft)
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar

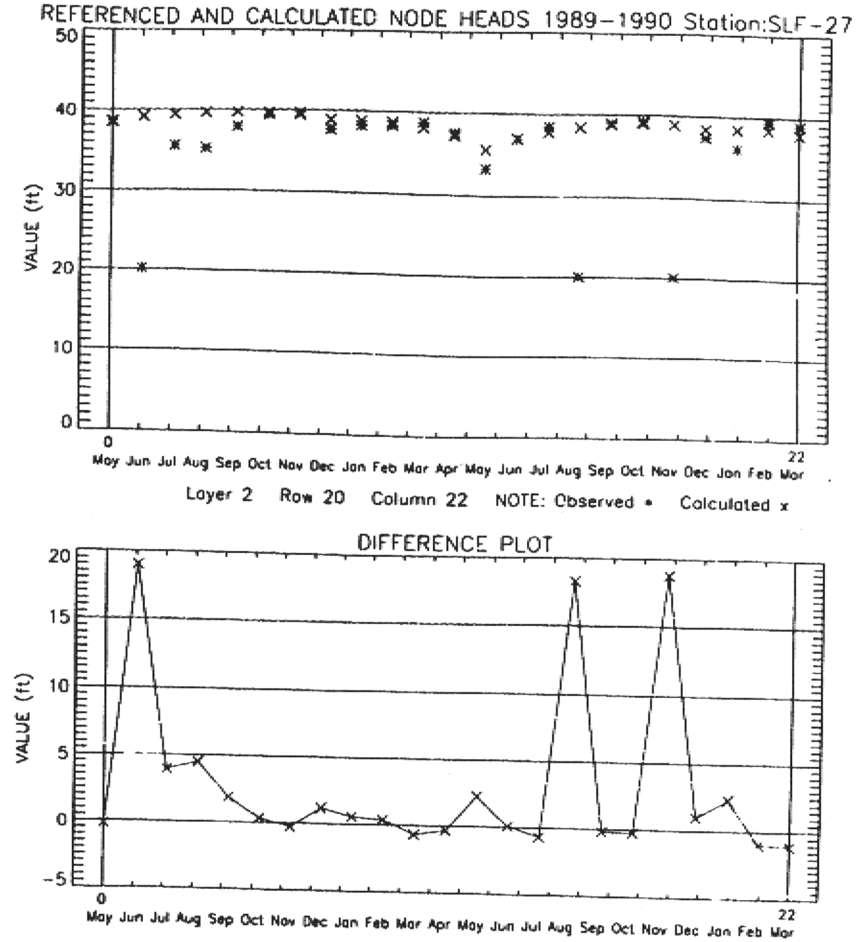

REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:SLF-17
VALUE (ft)
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
Layer 2 Row 24 Column 18 NOTE: Observed * Calculated x
DIFFERENCE PLOT
VALUE (ft)
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar


REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:SLF-21
VALUE (ft)
50
40
30
20
10
0
0
22
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
Layer 2 Row 17 Column 28 NOTE: Observed * Calculated x
DIFFERENCE PLOT
VALUE (ft)
20
15
10
5
0
-5
0
22
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar

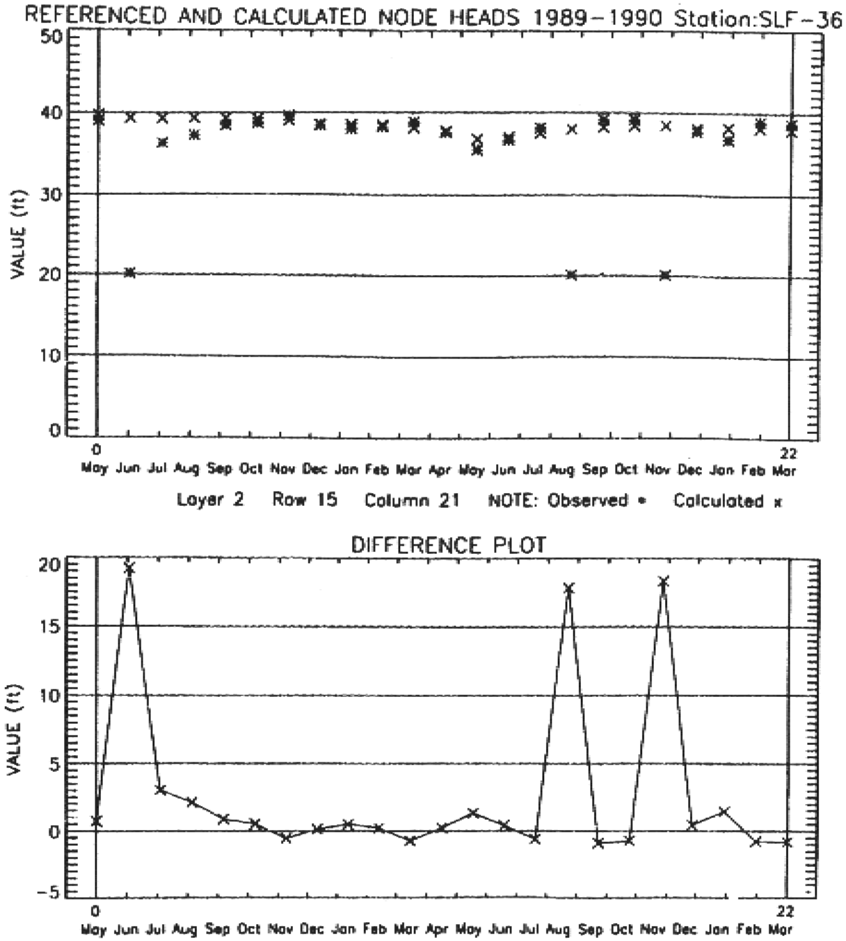

REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:SLF-23
VALUE (ft)
80
60
40
20
0
0
22
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
Layer 2 Row 32 Column 24 NOTE: Observed * Calculated x
DIFFERENCE PLOT
VALUE (ft)
40
20
0
-20
0
22
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar

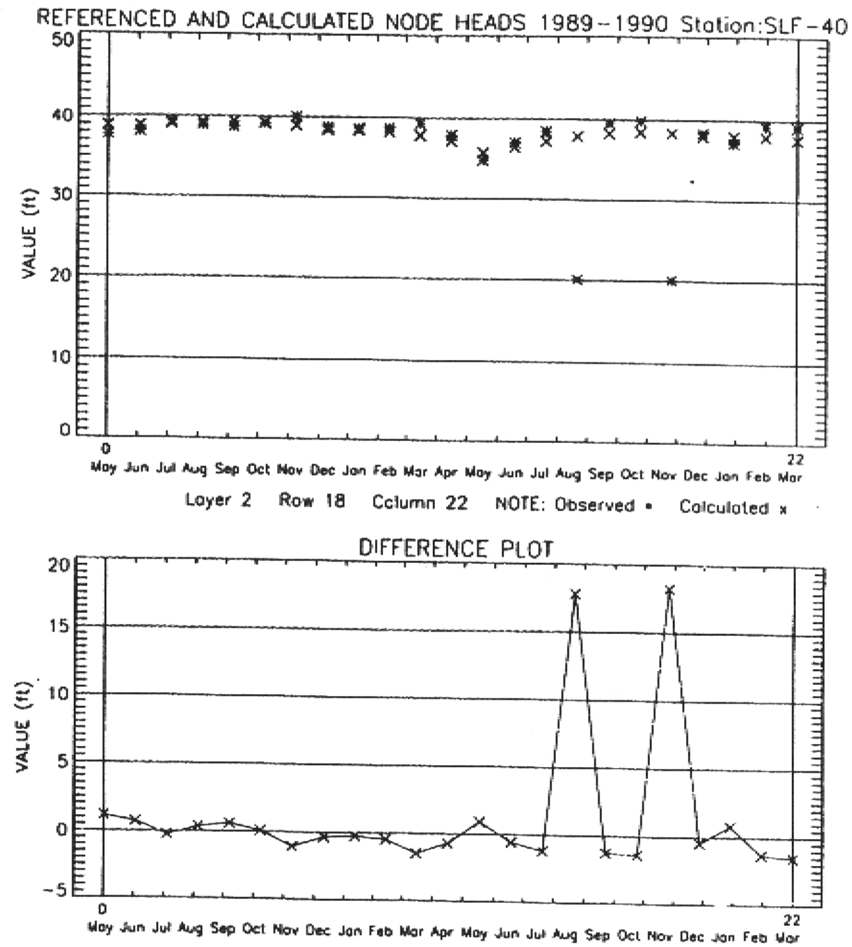


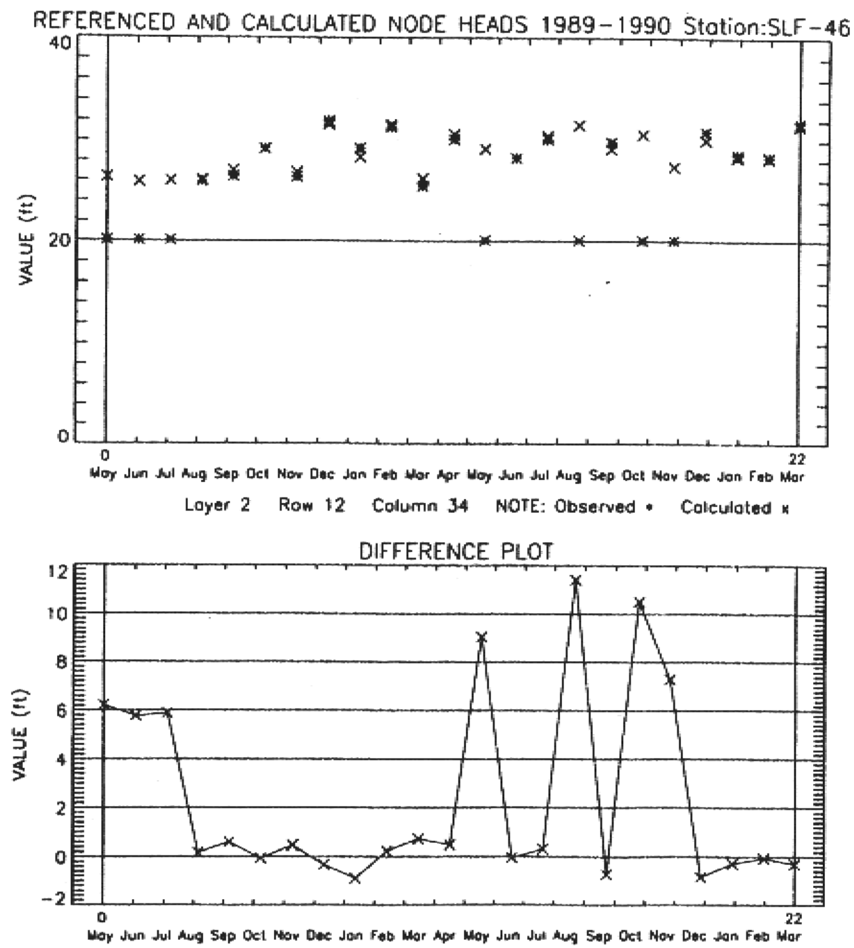
REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:SLF-26
VALUE (ft)
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
Layer 2 Row 20 Column 34 NOTE: Observed * Calculated x
DIFFERENCE PLOT

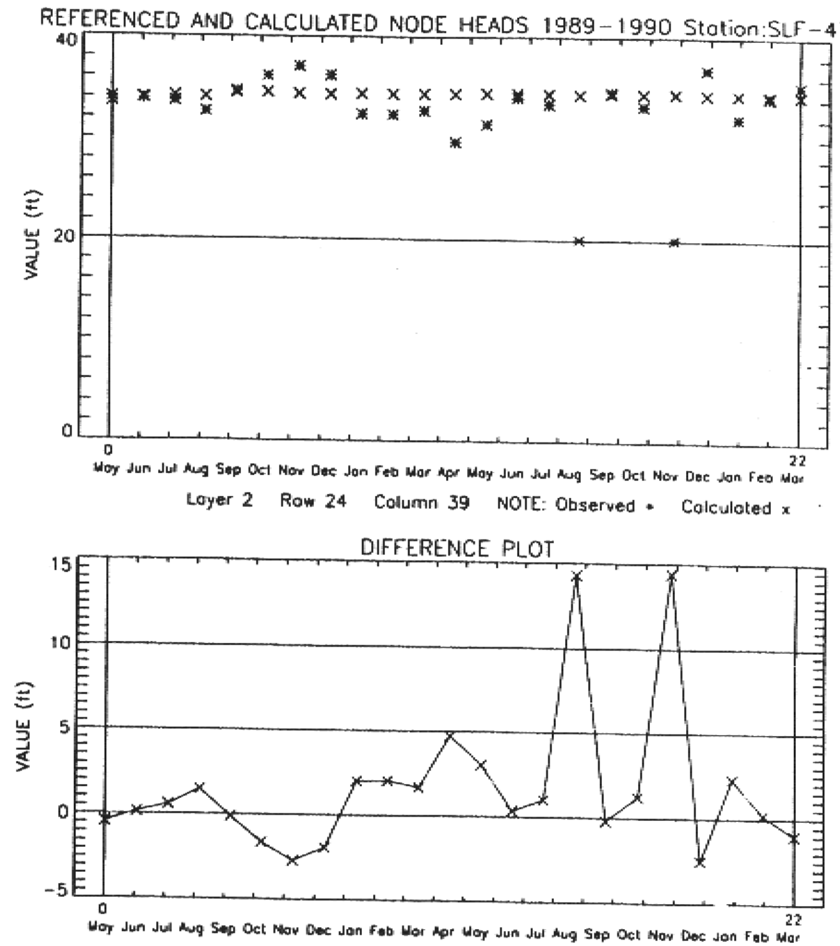


REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:SLF-27
VALUE (ft)
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
Layer 2 Row 20 Column 22 NOTE: Observed * Calculated x
DIFFERENCE PLOT

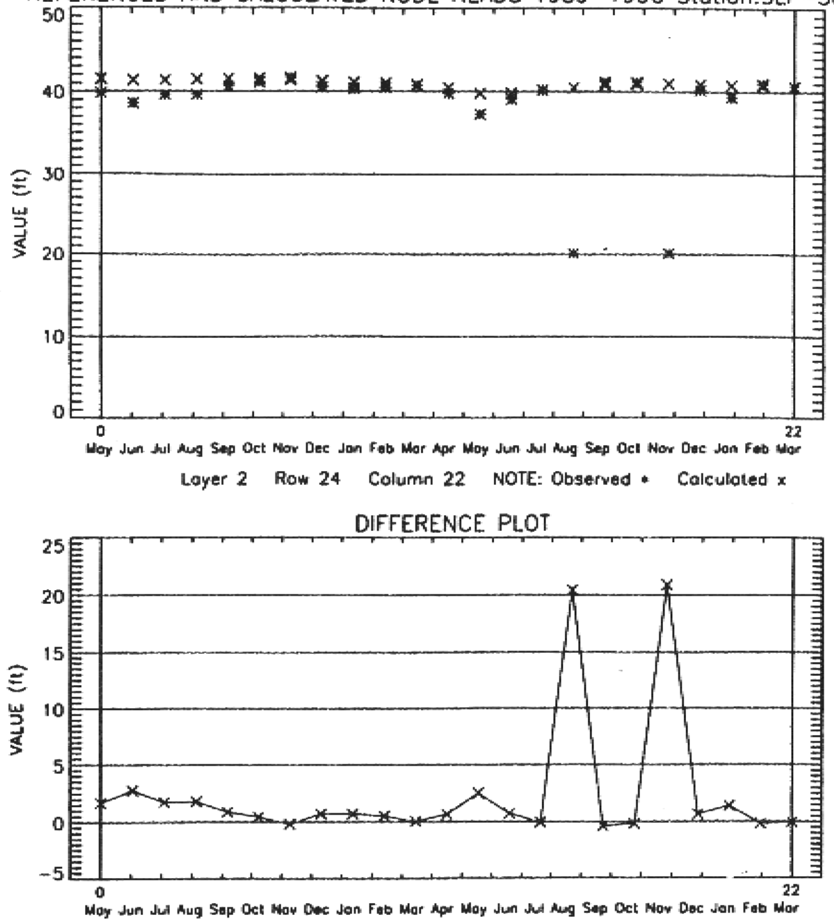

REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:SLF-36
VALUE (ft)
50
40
30
20
10
0
0
22
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
Layer 2 Row 15 Column 21 NOTE: Observed * Calculated x
DIFFERENCE PLOT
VALUE (ft)
20
15
10
5
0
-5
0
22
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar


REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:SLF-40
VALUE (ft)
50
40
30
20
10
0
0
22
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
Layer 2 Row 18 Column 22 NOTE: Observed * Calculated x
DIFFERENCE PLOT
VALUE (ft)
20
15
10
5
0
-5
0
22
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar

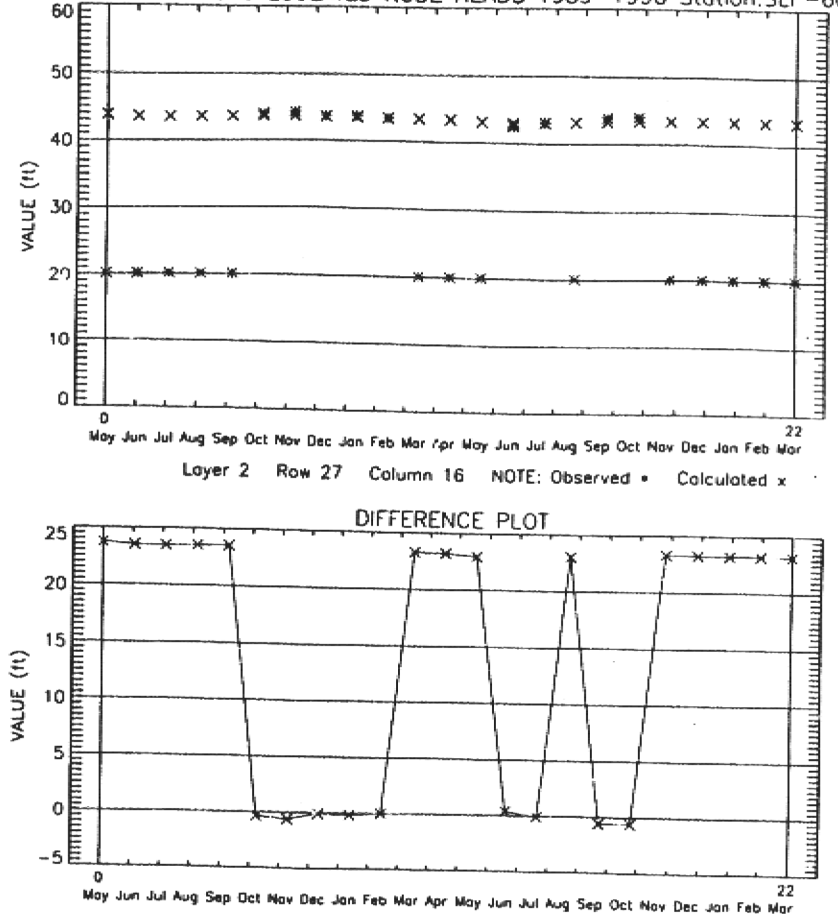

REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:SLF-46
VALUE (ft)
0
22
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
Layer 2 Row 12 Column 34 NOTE: Observed * Calculated x
DIFFERENCE PLOT
VALUE (ft)

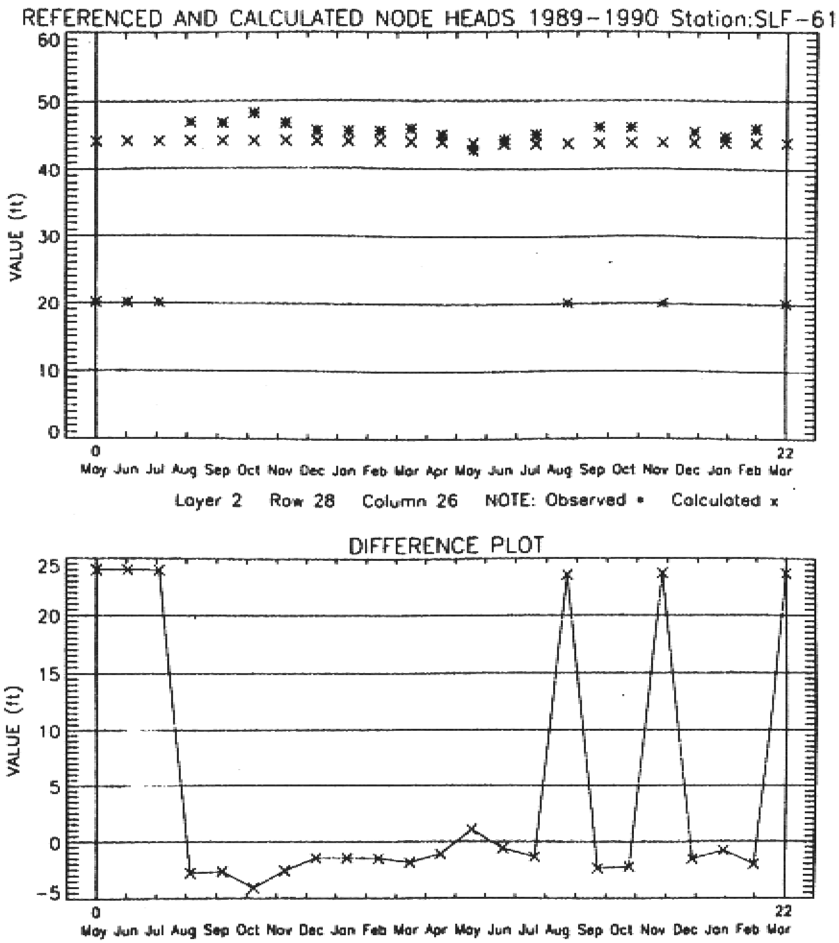

REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:SLF-47
VALUE (ft)
0
22
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
Layer 2 Row 24 Column 39 NOTE: Observed * Calculated x
DIFFERENCE PLOT
VALUE (ft)

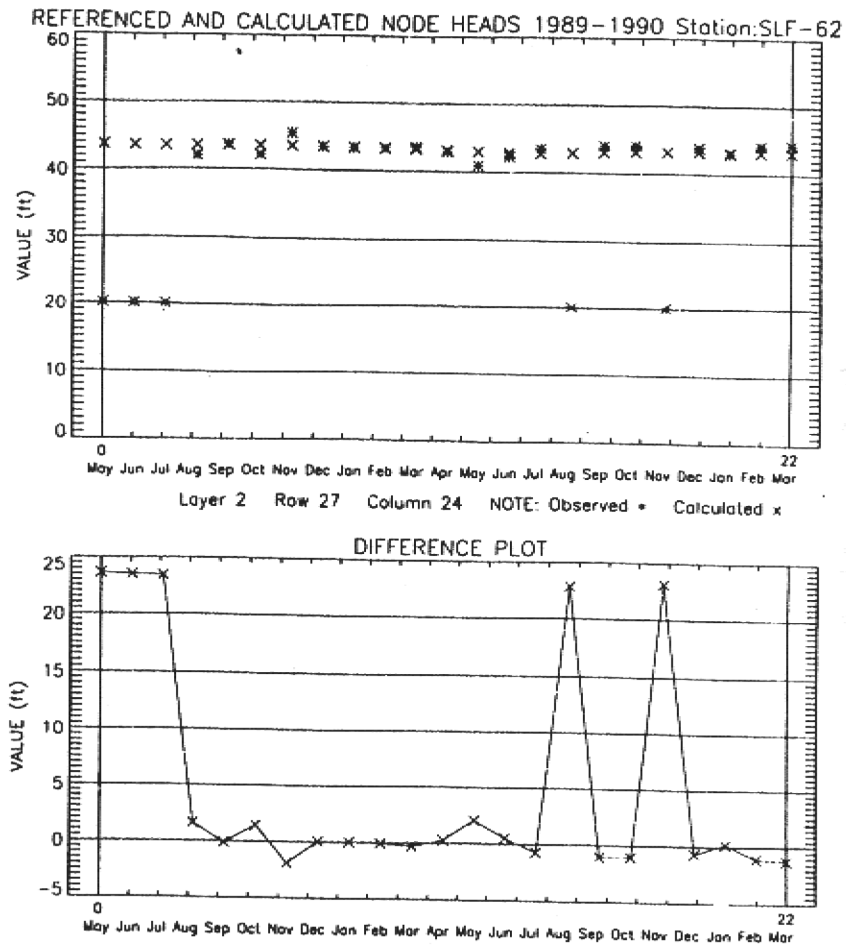
REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:SLF-50

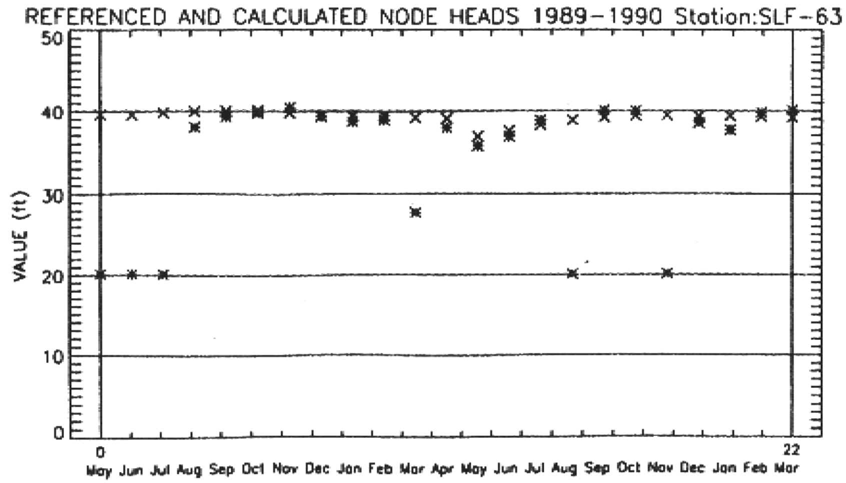


REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:SLF-60

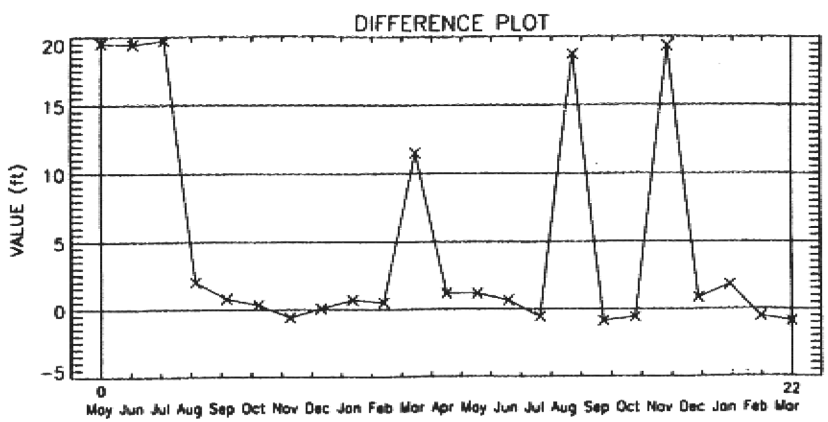


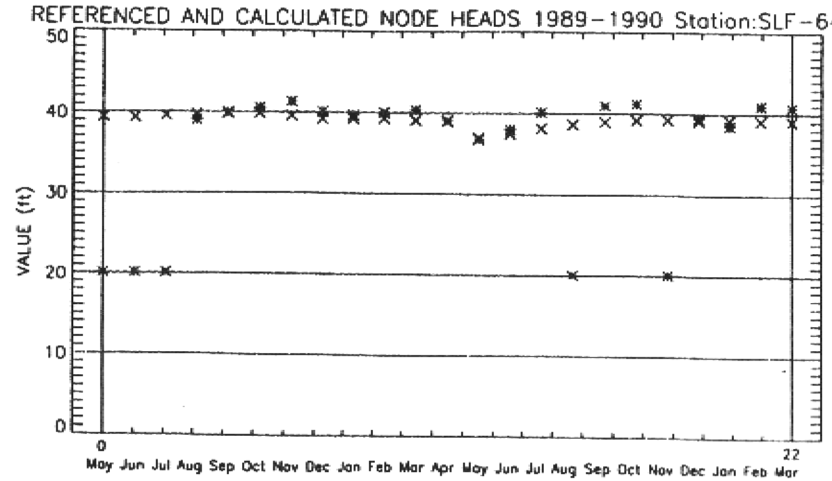

REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:SLF-61
VALUE (ft)
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
Layer 2 Row 28 Column 26 NOTE: Observed * Calculated x
DIFFERENCE PLOT


REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:SLF-62
VALUE (ft)
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
Layer 2 Row 27 Column 24 NOTE: Observed * Calculated x
DIFFERENCE PLOT

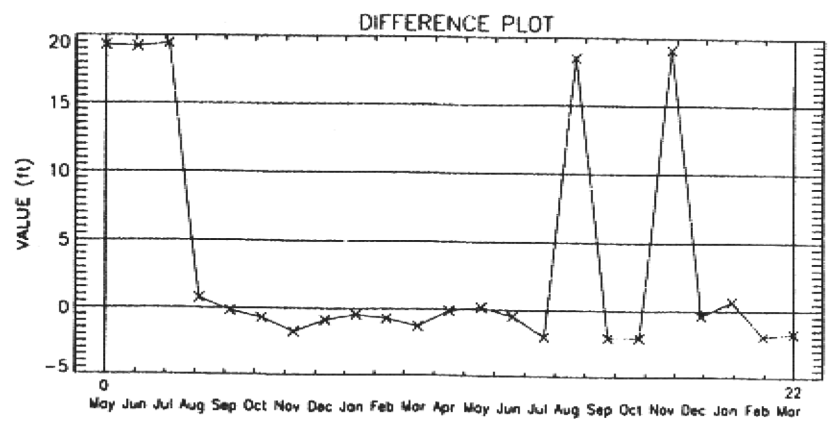


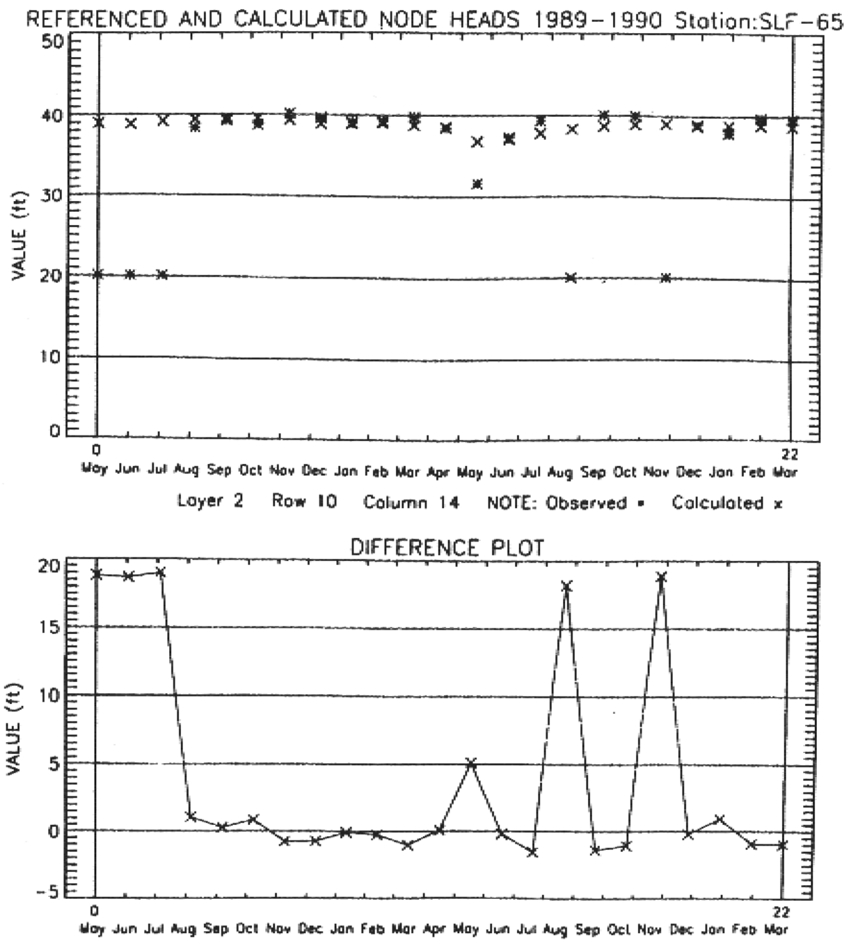
Layer 2 Row 14 Column 16 NOTE: Observed * Calculated x

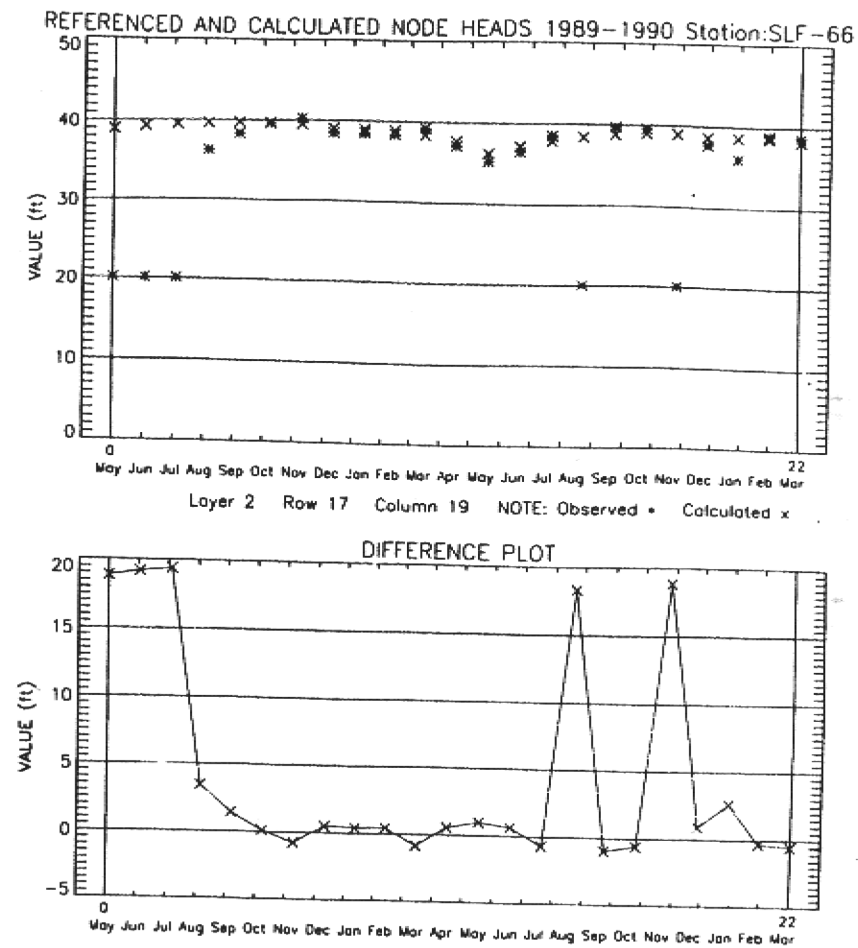


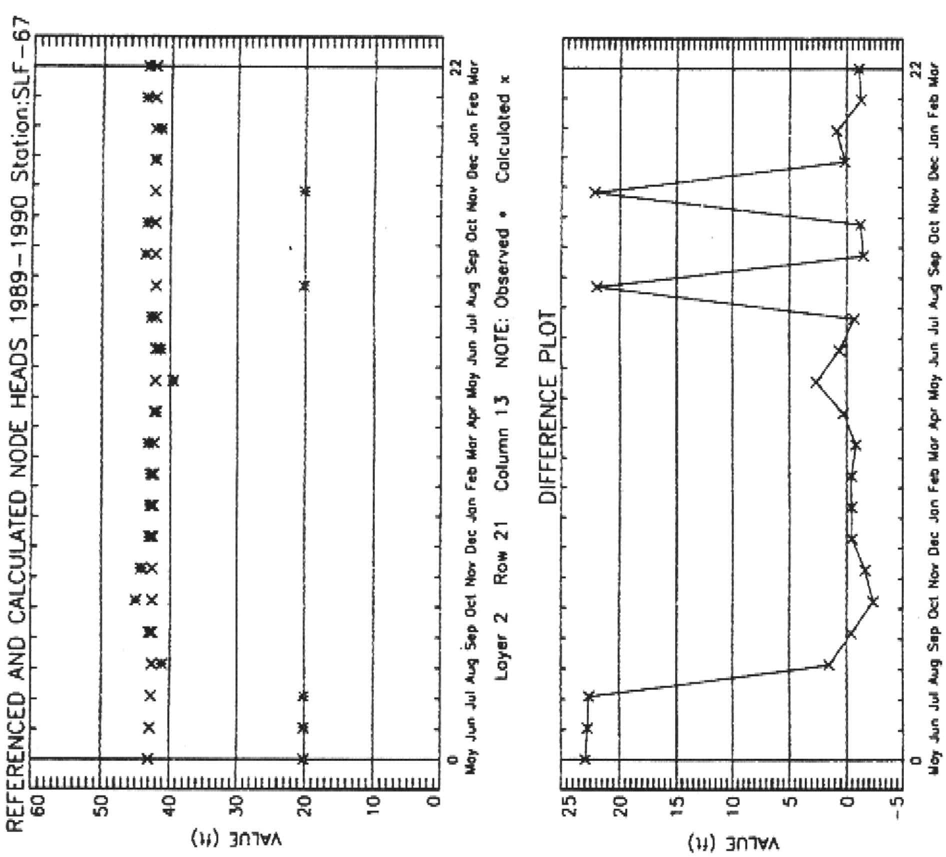


Layer 2 Row 12 Column 15 NOTE: Observed * Calculated x .

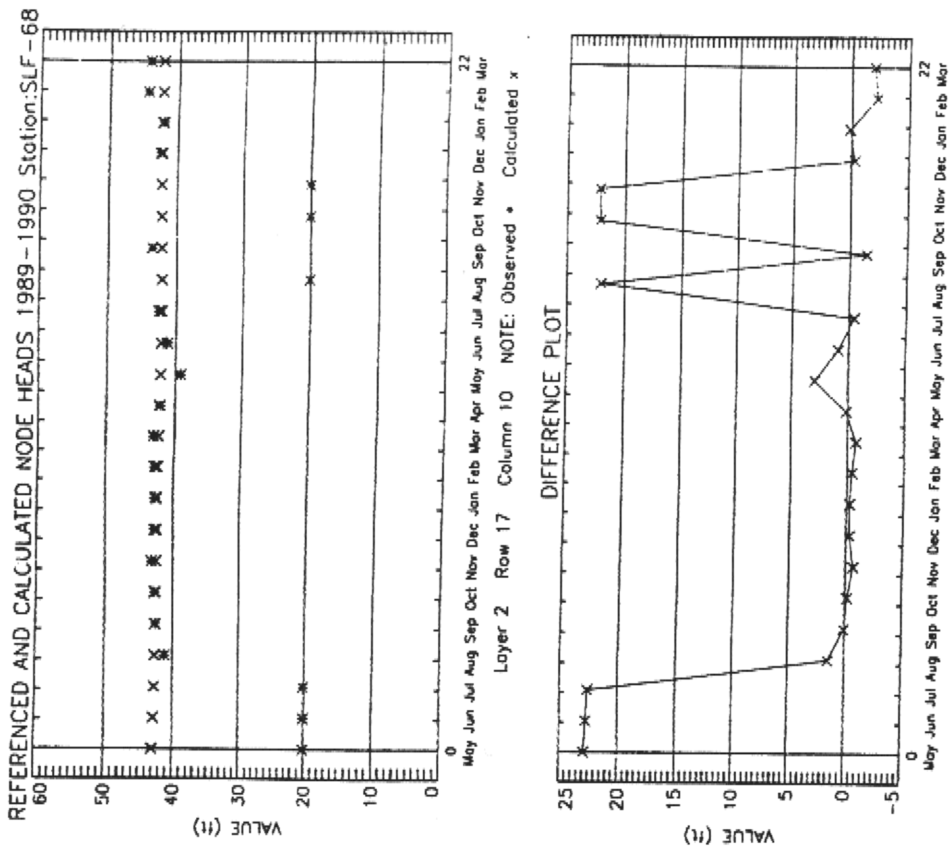



REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:SLF-65
VALUE (ft)
Layer 2 Row 10 Column 14 NOTE: Observed * Calculated x
DIFFERENCE PLOT
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar

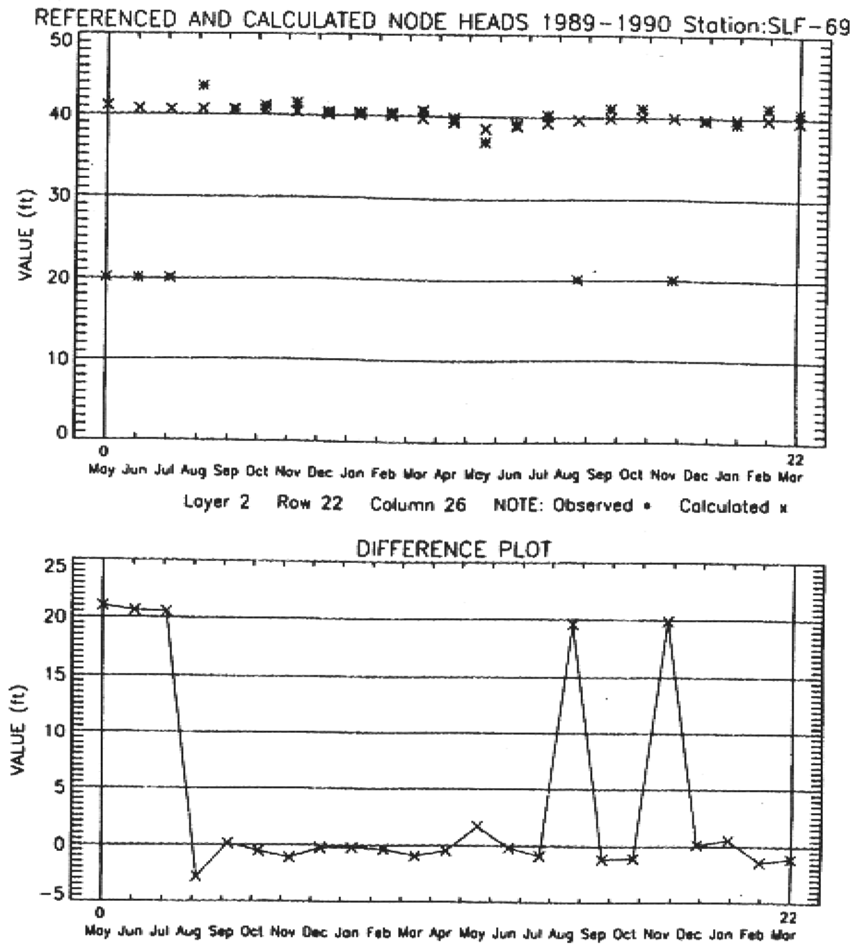

REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:SLF-66
VALUE (ft)
Layer 2 Row 17 Column 19 NOTE: Observed * Calculated x
DIFFERENCE PLOT
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar

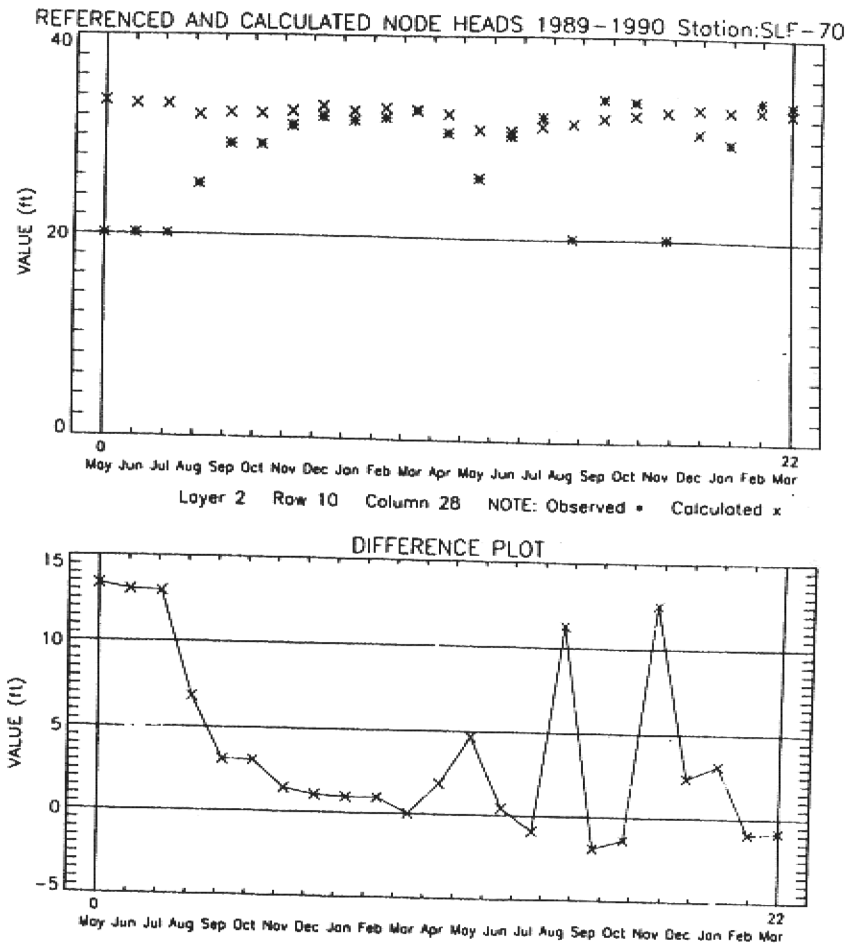


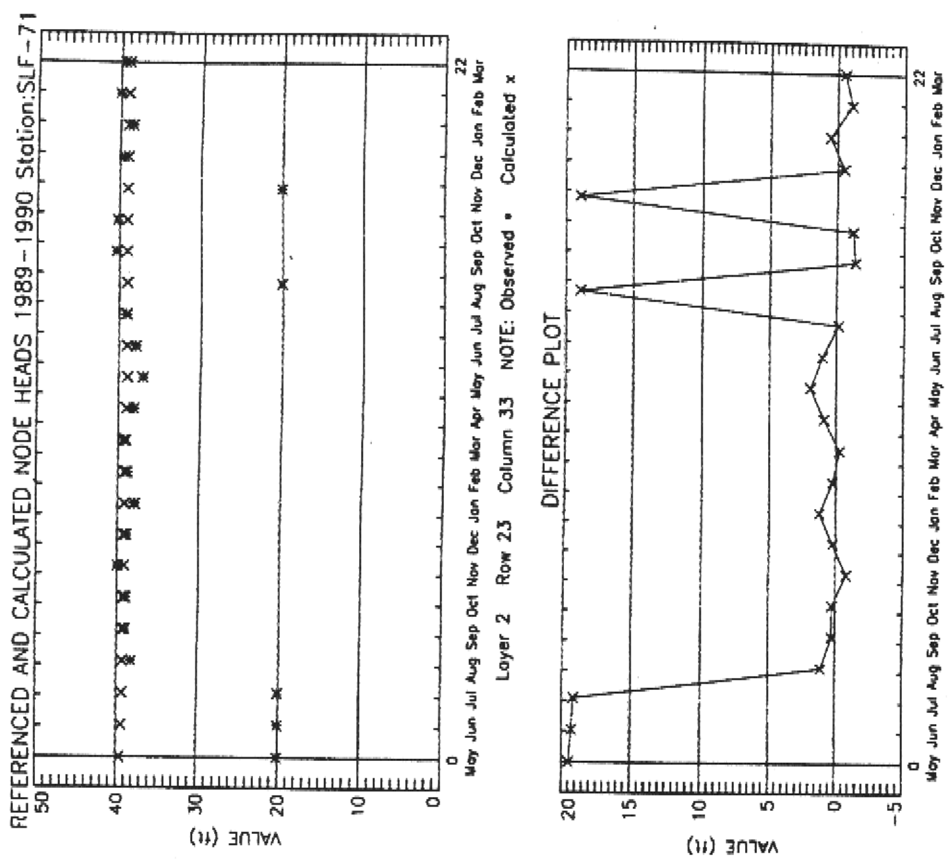
REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:SLF-67
VALUE (ft)
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
Layer 2 Row 21 Column 13 NOTE: Observed * Calculated x
DIFFERENCE PLOT

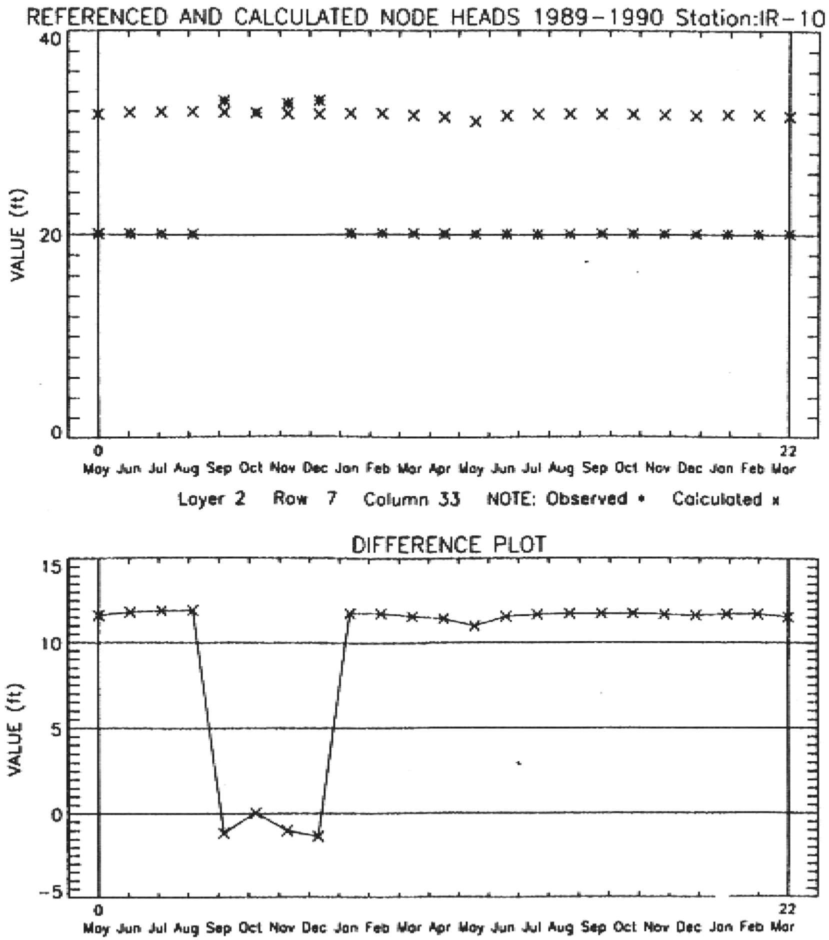


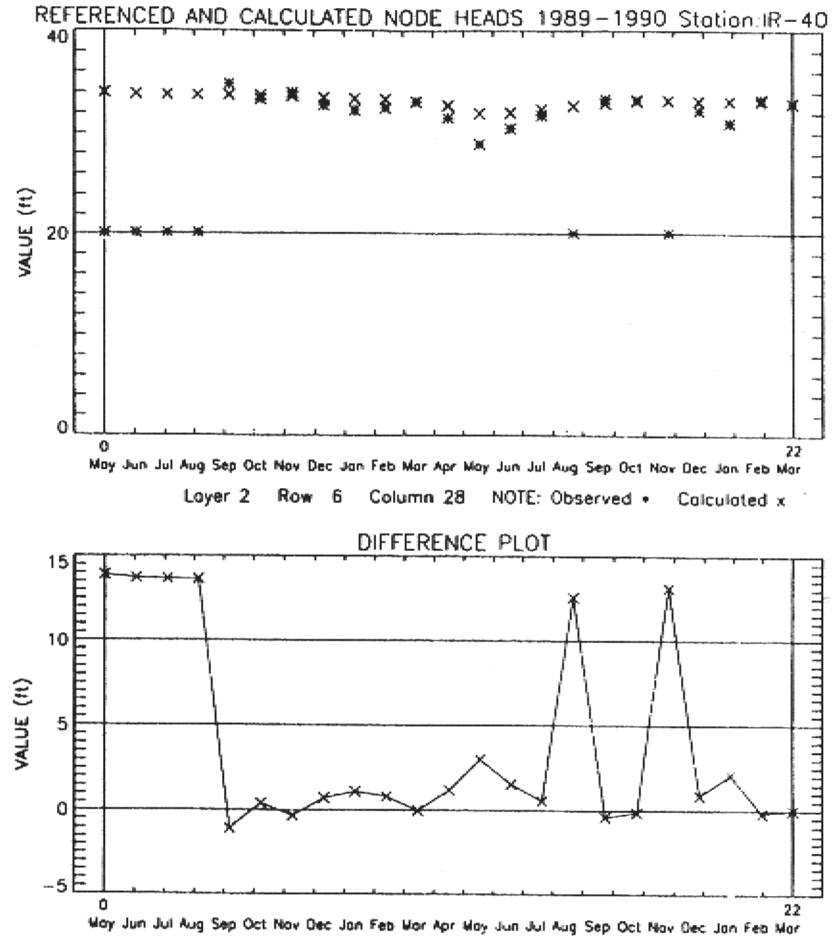
REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:SLF-68
VALUE (ft)
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
Layer 2 Row 17 Column 10 NOTE: Observed * Calculated x
DIFFERENCE PLOT

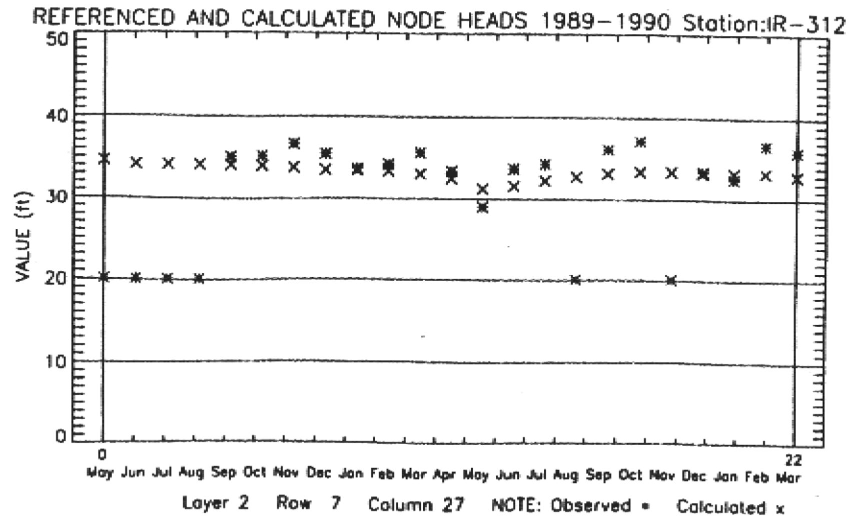

REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:SLF-69
VALUE (ft)
50
40
30
20
10
0
0
22
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
Layer 2 Row 22 Column 26 NOTE: Observed * Calculated x
DIFFERENCE PLOT
VALUE (ft)
25
20
15
10
5
0
-5
0
22
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar


REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:SLF-70
VALUE (ft)
40
20
0
0
22
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
Layer 2 Row 10 Column 28 NOTE: Observed * Calculated x
DIFFERENCE PLOT
VALUE (ft)
15
10
5
0
-5
0
22
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar

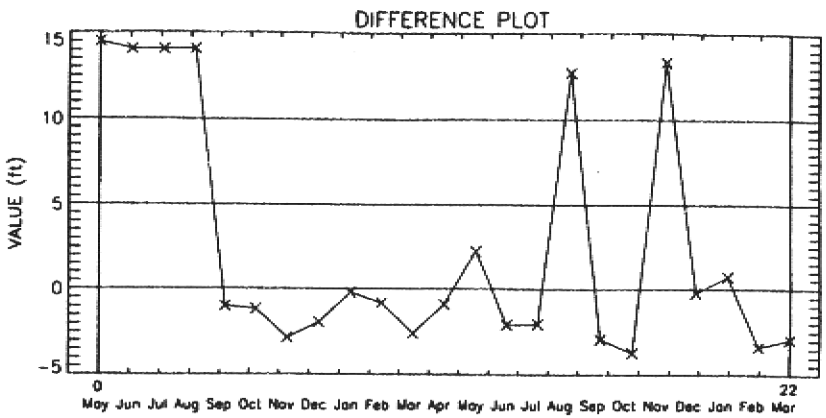

REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:SLF-71
VALUE (ft)
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
Layer 2 Row 23 Column 33 NOTE: Observed * Calculated x
DIFFERENCE PLOT
VALUE (ft)
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar


REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:IR-10
VALUE (ft)
40
20
0
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
22
Layer 2 Row 7 Column 33 NOTE: Observed • Calculated x
DIFFERENCE PLOT
15
10
5
-5

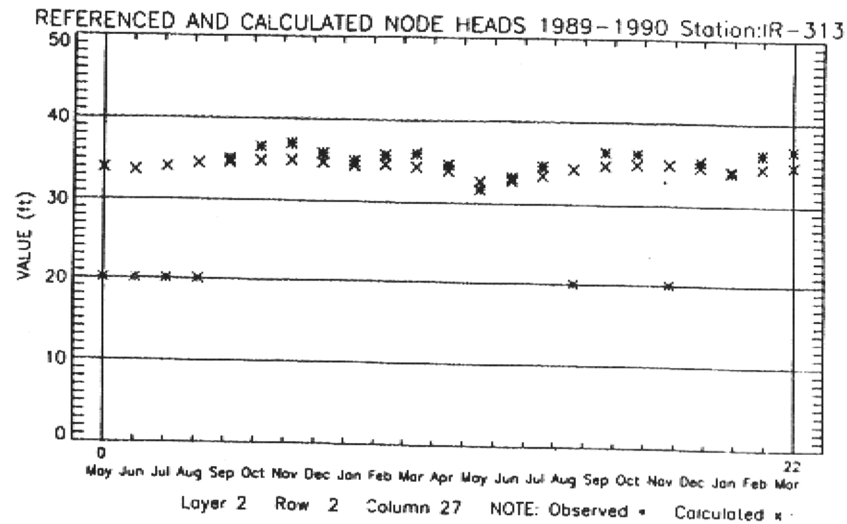

REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:IR-40
VALUE (ft)
40
20
0
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
22
Layer 2 Row 6 Column 28 NOTE: Observed • Calculated x
DIFFERENCE PLOT
15
10
5
-5



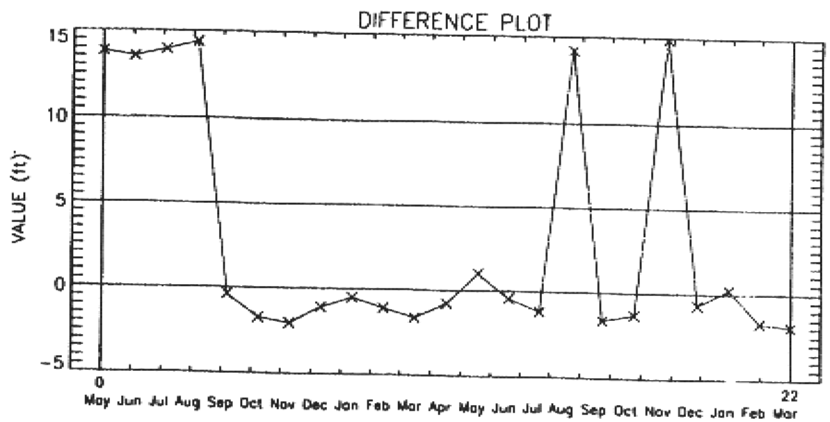
REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:IR-312
VALUE (ft)
0
22
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
Layer 2 Row 7 Column 27 NOTE: Observed * Calculated x



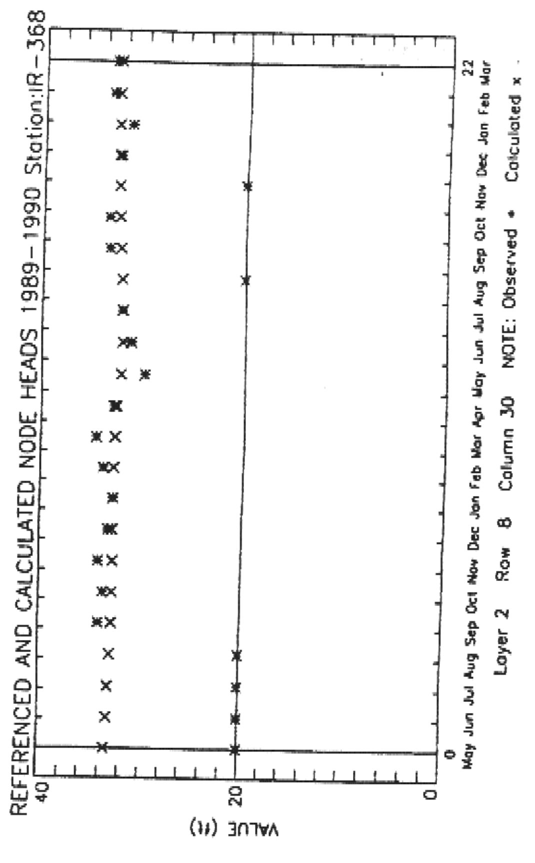
DIFFERENCE PLOT
VALUE (ft)
0
22
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar

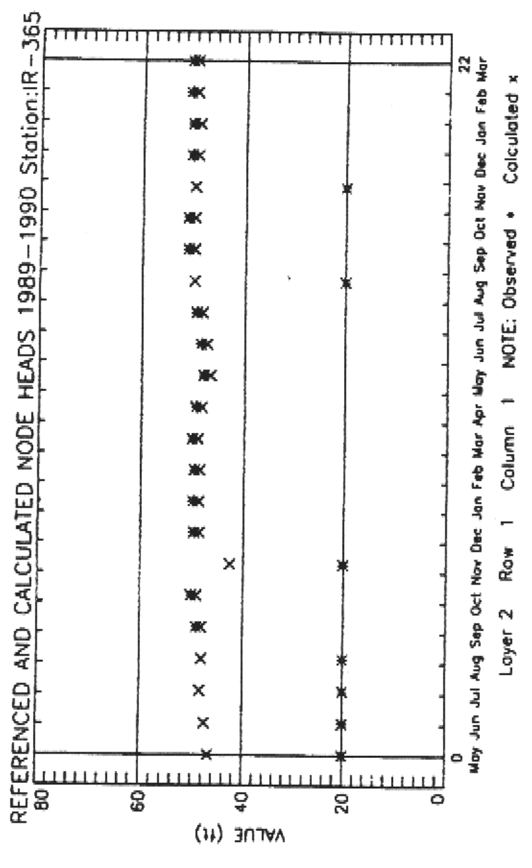


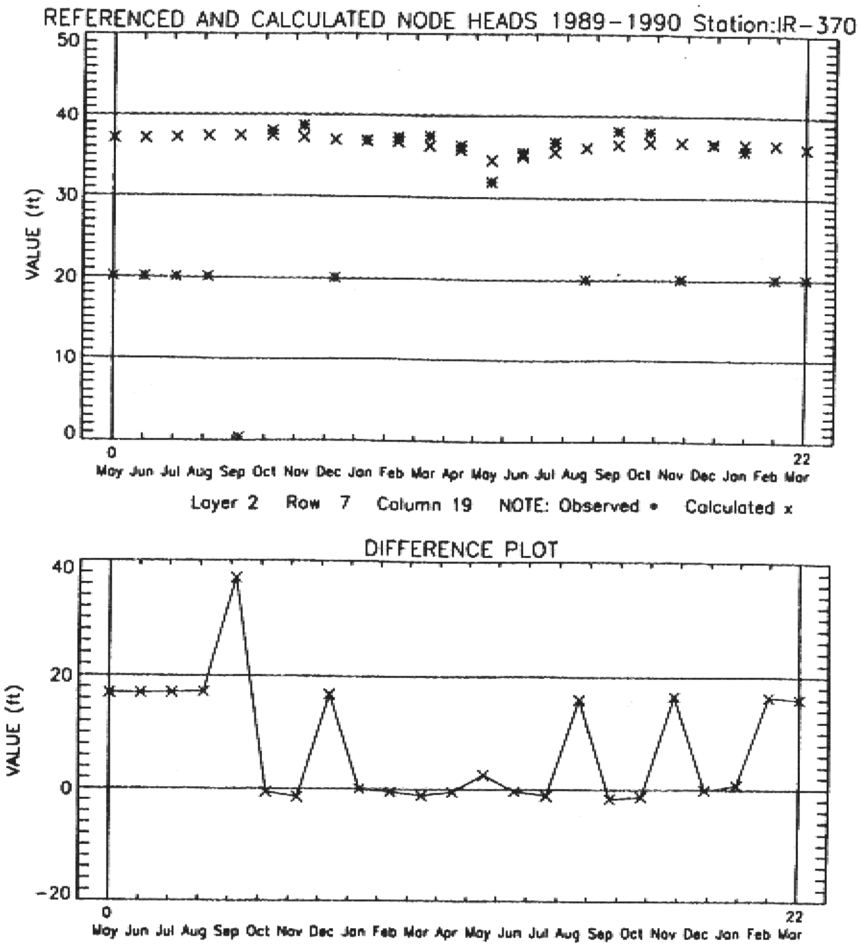
REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:IR-313
VALUE (ft)
0
22
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
Layer 2 Row 2 Column 27 NOTE: Observed * Calculated x

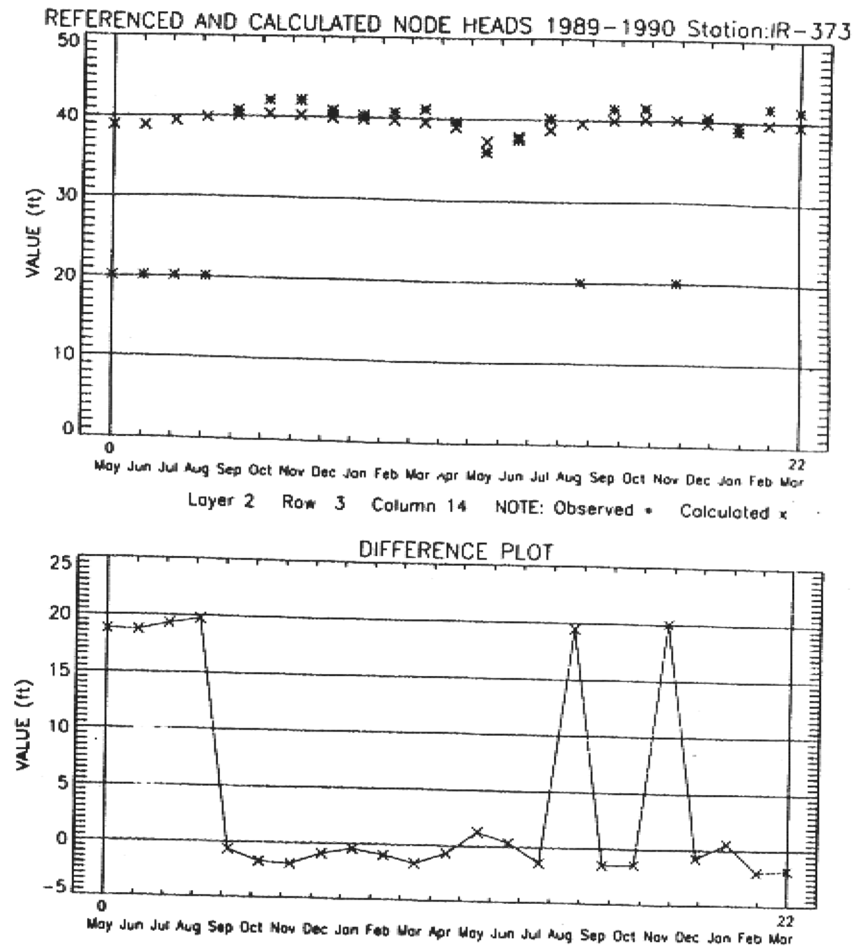


DIFFERENCE PLOT
VALUE (ft)
0
22
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar


REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:IR-368
VALUE (ft)
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
Layer 2 Row 8 Column 30 NOTE: Observed * Calculated x
DIFFERENCE PLOT
VALUE (ft)
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar


REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:IR-365
VALUE (ft)
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
Layer 2 Row 1 Column 1 NOTE: Observed * Calculated x
DIFFERENCE PLOT
VALUE (ft)
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar


REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:IR-370
VALUE (ft)
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
Layer 2 Row 7 Column 19 NOTE: Observed * Calculated x
DIFFERENCE PLOT
VALUE (ft)
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar


REFERENCED AND CALCULATED NODE HEADS 1989-1990 Station:IR-373
VALUE (ft)
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
Layer 2 Row 3 Column 14 NOTE: Observed * Calculated x
DIFFERENCE PLOT
VALUE (ft)
May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar

APPENDIX F

QUESTIONNAIRE RESULTS

APPENDIX F

INTRODUCTION

The following questionnaire was mailed in May 1990 to 360 FAS permittees in the UECPA. The amount returned was 130, a 36 percent return rate. The answers to each question were entered into a software database program named DBASE and the percentage of each type answer was calculated. Answers to Section 2 were used to compute an average number of hours wells were allowed to flow freely for each month in 1989 and 1990. The results are listed in Table 4 of the main report.

QUESTIONNAIRE

SECTION 2
WATER USE HABITS

1) Check each water source used routinely for irrigation.

__19%__ : Surface
__31%__ : Flowing wells
__02%__ : Water Table wells
__50%__ : Combination of Surface and Flowing wells
__00%__ : Other. Please explain below.

2) Check the water source used for frost protection.

__14%__ : Surface
__24%__ : Flowing wells
__02%__ : Water Table wells
__60%__ : Combination of Surface and Flowing wells
__00%__ : Other. Please explain below.

3) Indicate your PRESENT reliance on each of the water sources listed below in percentage during normal yearly irrigation practices (eg. __70%__ Flowing Wells, __20%__ Surface Water, __10%__ Water Table from pumps).

PERCENT	Water Source
__44%__	FLOWING WELLS (FLORIDAN AQUIFER SYSTEM)
__54%__	SURFACE WATER BODIES (EG. CANALS, RESERVOIR, ETC.)
__02%__	WATER TABLE AQUIFER (SHALLOW WELLS LESS THAN 200', PUMPED NOT FLOWING NATURALLY)
__00%__	OTHER. PLEASE EXPLAIN OTHER WATER SOURCE BELOW.

4) Would you say the purpose of the Floridan wells on your property can be summed up as simply insurance water supply in the event of a drought or a freeze ?

__55%__ Yes __45%__ No

The following Section 2 was used to estimate the average hours a Floridan Aquifer System well was allowed to flow freely in each month of the calibration period.

SECTION 2 (continued)

3) **<u>During an average, typical year</u>** for your <u>Flowing wells ONLY</u> (Floridan Aquifer Wells), please **check the months** they are used. Indicate number of days used in each month, number of hours in each day and the volume of water per month. We are looking for approximate use and seasonal patterns, not exact figures.

CHECK MONTH		# DAYS/ MONTH	Average # HOURS each DAY		VOLUME (Gallons) Applied for MONTH
____	January	________ Days	________ Hrs.	Jan.	____________
____	February	________	________	Feb.	____________
____	March	________	________	March	____________
____	April	________	________	April	____________
____	May	________	________	May	____________
____	June	________	________	June	____________
____	July	________	________	July	____________
____	August	________	________	Aug.	____________
____	September	________	________	Sept.	____________
____	October	________	________	Oct.	____________
____	November	________	________	Nov.	____________
____	December	________	________	Dec.	____________

4) **<u>During the course of 1989-90</u>**, for your <u>Flowing wells only</u> Please **check the months** they were used. Fill in Days and Hours as above. Here we are asking for 1989 water use, conversely in #2 above we are asking for an average, typical year. The purpose of this question is to compare our water levels from our monitor wells this year with exact water use patterns for the year 1989.

CHECK MONTH 1989		# DAYS/ MONTH	Average # HOURS each DAY		VOLUME (Gallons) Applied for MONTH
____	January	________ Days	________ Hrs.	Jan.	____________
____	February	________	________	Feb.	____________
____	March	________	________	March	____________
____	April	________	________	April	____________
____	May	________	________	May	____________
____	June	________	________	June	____________
____	July	________	________	July	____________
____	August	________	________	Aug.	____________
____	September	________	________	Sept.	____________
____	October	________	________	Oct.	____________
____	November	________	________	Nov.	____________
____	December	________	________	Dec.	____________

1990

___	January	________	Days	__________	Hrs. Jan.	________________
___	February	________		__________	Feb.	________________
___	March	________		__________	March	________________

Briefly describe how the flowing wells are used for freeze protection. Are the wells opened continuously and for how long before and after a frost warning?

Typical year: ____

The average response was:

57 Hours before a freeze

10 Hours after a freeze

1989: **December 24, 1989 and Feb 2, 1990.**

SECTION 3
WATER QUALITY AND QUANTITY

1) Over the course of time has the quality (saltiness) of water from your flowing wells :

02% IMPROVED

13% DETERIORATED

85% REMAINED THE SAME

How many years have the wells been in use ?

25.5 years

2) Since you have been using the FLOWING WELLS, what have you observed about the flow pressure (water quantity) ?

24% The amount of water naturally flowing now is less than the flow I used to get.

0% I now get more flow than before.

76% I have not observed any change in the amount of flow.

If you checked the first choice above, in your opinion is the decrease of flow attributed to the aging well condition OR is it due to less water pressure currently available in the aquifer.

54% : less pressure in the aquifer system.

46% : Aging, corroded pipe and possible cavings downhole.

3) Over the course of the last few years has your reliance on flowing wells :

12% Increased

43% Decreased

45% Remained the same