Technical Publication #90-04

A THREE-DIMENSIONAL FINITE DIFFERENCE GROUND WATER FLOW MODEL OF HENDRY COUNTY

by

Keith R. Smith, P.G.

October 1990

This publication was produced at an annual cost of $1050.00 or $2.10 per copy to inform the public.
500 1090 Produced on recycled paper.

Hydrogeology Division
Department of Research and Evaluation
South Florida Water Management District
West Palm Beach, Florida

EXECUTIVE SUMMARY

Hendry County, Florida is underlain by two fresh water aquifer systems: the Surficial Aquifer System and the Intermediate Aquifer System. The Surficial Aquifer System is comprised of the water table and lower Tamiami aquifers. The sandstone aquifer is the major producing zone within the Intermediate Aquifer System. Information from a ground water assessment completed by the South Florida Water Management District in 1988 was used to develop a regional three-dimensional ground water flow model.

The Hendry County ground water flow model was developed using the U. S. Geological Survey modular three-dimensional finite-difference ground water flow model, commonly known as MODFLOW. This model 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 can also be simulated, such as recharge, evapotranspiration, well withdrawals, and interactions with surface water bodies.

The Hendry County ground water flow model contains three layers representing the water table, lower Tamiami, and sandstone aquifers. Confining zones between aquifers are not represented by separate layers within the model. Rather, confining zones are represented by vertical flow terms within the top two layers of the model. The horizontal model grid is composed of 48 rows and 54 columns, with a uniform spacing of one mile.

The model was calibrated by adjusting aquifer parameters to match computed water levels with observed water levels for the period January 1986 through December 1988. Ground water withdrawal information for the calibration period was obtained from individual water use permits for agricultural irrigation issued by the District. The permits supplied information on crop types, acreages, irrigation practices, and wells. This information was used to estimate actual monthly water use during the calibration period. Public supply water use, as reported to the District, was used in the model. Together, agricultural irrigation and public supply account for over 99 percent of the ground water use in Hendry County.

To ensure the best possible accuracy for evaluative or predictive purposes, it is important to test the model's sensitivity to the estimated parameters. The top layer, representing the water table aquifer, is most sensitive to evapotranspiration and recharge rates. The lower layers, representing the lower Tamiami and sandstone aquifer, are somewhat sensitive to the vertical hydraulic conductivity of the confining zones.

Upon completion of the sensitivity analyses, a predictive scenario was evaluated. This run represented all of the water use permitted or proposed as of November 1989, simulating moderately dry conditions (2-in-10 year drought). Results show that water levels within the water table aquifer decline one foot or more over approximately 50% of the modeled area. This regional head decline is a result of the decrease in recharge associated with the simulated drought. Several localized areas show larger head declines due to increased withdrawals. The lower Tamiami aquifer responds to drought in a similar manner. However, head declines due to withdrawals are larger because much more water is pumped from the lower Tamiami

aquifer than the water table aquifer. A regional cone of depression centering on large scale agricultural production is seen in southeastern Hendry County, along with several other similar, but smaller scale impacts scattered through the modeled area. The sandstone aquifer shows the greatest impact with approximately 75% the simulated aquifer area showing water level declines of one foot or more during drought conditions. Areas showing greater impacts due to withdrawals are west of LaBelle and the area where Hendry, Lee, and Collier Counties meet. Because water level declines in the lower aquifers can result in an increase in the amount of leakage from overlying aquifers, the water level declines in the lower Tamiami and sandstone aquifers are causing significant water levels declines in the water table aquifer.

Recommendations

Strict management of the lower Tamiami aquifer in southeastern Hendry County and the sandstone aquifer throughout the study area is needed because of the projected declines in water levels. Minimum water levels should be established for the lower Tamiami aquifer in southeast Hendry County and the sandstone aquifer throughout the study area. All permitted withdrawals should be regulated to ensure the minimum levels are maintained. Increased monitoring of water levels and withdrawals is recommended for areas where minimum levels are set. Future requests for large scale withdrawals should be closely examined to ensure that the minimum levels can be maintained. The establishment of minimum water levels should be a part of the development of the water supply plan for this area.

Accurate projections of future agricultural water use in Hendry County are essential to the planning process. These projections must include acreages, crop types, and locations likely to be developed, in order to simulate reasonable projections of future water conditions.

The model developed in this study should be used in the evaluation of water use permit applications. Where a finer scale or site specific model is required, the regional model could be used to provide the boundary conditions. Areas where this is necessary include southeast Hendry County and Ft. Denaud (west of LaBelle). The model should continue to be refined and updated whenever additional information becomes available.

Hydrogeologic studies should be undertaken in those areas where existing information is incomplete. These areas include Ft. Denaud in northwest Hendry County and the water table aquifer throughout the study area. This will increase the overall accuracy and confidence level of the model.

Interfaces should be developed with the Lee County model, and the Collier County model currently under development. This will result in a truly regional model that will encompass the entire flow regime for the Surficial Aquifer System and the Intermediate Aquifer System in the lower west coast water supply planning area. The interface with the Lee County model is of particular importance, since the models indicate that much of the flow into the sandstone aquifer in Lee County consists of lateral flow originating in Hendry County. The large withdrawals for agricultural irrigation occurring near the county border may be affecting regional flow patterns in the area.

Interactions between ground and surface water should be investigated. The dense network of small canals found in Hendry County should be examined and their effect on ground water flows quantified and used in the model. This would improve the calibration of the water table aquifer and the overall accuracy of the model.

TABLE OF CONTENTS

TABLE OF CONTENTS (CONTINUED)

LIST OF FIGURES

LIST OF FIGURES
(CONTINUED)

LIST OF FIGURES
(CONTINUED)

LIST OF TABLES

ACKNOWLEDGEMENTS

This study was carried out under the direction of Sharon Trost, formerly the Director of the Hydrogeology Division, and currently the Director of the Water Supply Planning Division. Scott Burns, Director of the Hydrogeology Division also provided direction and input on the hydrogeology of the lower west coast.

The author wishes to acknowledge the peer review committee, whose comments greatly improved the quality of this report:

Leslie Wedderburn, Ph.D., Research and Evaluation Department, SFWMD
Bonnie Kranzer, Ph.D., Executive Office, SFWMD
William Scott Burns, Hydrogeology Division, SFWMD
Richard Bower, Water Supply Planning Division, SFWMD
Steve Lamb, Water Use Division, SFWMD
Phil Fairbank, Hydrogeology Division, SFWMD
Gail Milleson, Murray-Milleson Inc., West Palm Beach
Tom Missimer, Missimer and Associates, Cape Coral
Dale Hardin, Agricultural Management Services, Punta Gorda
Peter Anderson, GeoTrans Inc., Herndon, Virginia

The author also wishes to acknowledge all others who reviewed this document: Karin Adams, Mary-Jo Shine, Jorge Restrepo, Walter Ward, Jose Alvarez, Lloyd Horvath, and Maurice Gebhardt.

Richard Bower provided insight and assistance in understanding the subtleties of MODFLOW. He also developed many programs used to generate and manipulate the large data sets necessary in a model of this size. Finally, he provided insight into the hydrogeology of the Lee County - Hendry County border area.

Karin Adams provided a great deal of assistance in running and making the necessary modifications to the many pre- and post- processing programs.

Emily Hopkins assembled the rainfall, water level, and evaporation data used in the calibration process.

Finally, the author wishes to acknowledge Cindy Whelan and Chris Benkley for their work on the graphics; and Karen Hargray and Hedy Marshall, who did the word processing and assisted in the editing of this report.

ABSTRACT

Hendry County, Florida, is underlain by two fresh water aquifer systems: the Surficial Aquifer System and the Intermediate Aquifer System. The Surficial Aquifer System is comprised of the water table and lower Tamiami aquifers. The sandstone aquifer is the major producing zone within the Intermediate Aquifer System. A three-dimensional ground water flow model of these aquifers was developed using the U. S. Geological Survey modular finite-difference ground water flow model (MODFLOW). The model consists of three layers representing the water table, lower Tamiami, and sandstone aquifers. Horizontal discretization was accomplished using a grid comprised of 48 rows and 54 columns, with a grid spacing of one mile. Initial aquifer parameters were obtained from a ground water resource assessment study of Hendry County (Smith and Adams, 1988). A transient calibration was performed for a three year period (1986 through 1988) by comparing simulated water levels with observed water levels in an extensive monitoring network. Sensitivity analyses showed that the lower Tamiami and sandstone aquifers are sensitive to changes in vertical hydraulic conductivity, and the water table aquifer is sensitive to changes in recharge and the maximum evapotranspiration rate.

A predictive scenario was evaluated, representing all permitted and proposed water use as of November 1989, simulating a moderately dry period (2-in 10 year drought). Results of the simulation show that the water table aquifer experiences water level declines of one foot or more over 50% of the modeled area. The lower Tamiami aquifer is also showing significant effects of ground water withdrawals, as evidenced by the regional cone of depression that occurs in southeast Hendry County. The sandstone aquifer shows the greatest potential impact from permitted and proposed water withdrawals. The predictive scenario indicates that a decline in water levels of one foot or more will occur over approximately 75% of the areal extent of the sandstone aquifer in the study area, with localized head declines due to withdrawals exceeding 10 feet. **Strict water management is recommended in the lower Tamiami aquifer in southeast Hendry County and in the sandstone aquifer throughout Hendry County. This should include the establishment of minimum water levels in the affected areas. Permitted withdrawals should be regulated in order to maintain these levels, which should be developed during the water supply planning process.**

INTRODUCTION

PURPOSE AND SCOPE

This study was undertaken as part of the South Florida Water Management District's program to develop comprehensive water supply plans. These plans will be based on quantitative assessments of the available water resources combined with estimates of future water use demands. Evaluation of existing water supply problem areas, identification of potential problem areas, and development of management guidelines will be integral parts of a water supply plan.

The purpose of this study was to develop a county wide three-dimensional ground water flow model of the major fresh water aquifer systems in Hendry County. Specific applications of this model will enable the development and evaluation of various ground water elements to be included in the water supply plan for the Hendry County area and the subsequent evaluation of the impacts of proposed ground water uses. The model will also be used to evaluate short term drought management scenarios during declared water shortages.

This report represents the third phase of a three phase ground water resource assessment for Hendry County. The first phase of the Hendry County ground water assessment was completed in 1986 and involved the evaluation of the ground water monitor network, identification of areas of data deficiency, and investigation of land and water use patterns. The results of this study are summarized in a technical memorandum (Smith, Sharp, and Shih, 1988). The second phase of the project included extensive field work to define the extent and occurrence of major aquifer systems, regional ground water flow patterns, water quality trends, and a preliminary assessment of the future development potential of the ground water resources of Hendry County. The results of this work are described in SFWMD Technical Publication 88-12 (Smith and Adams, 1988). Development of the ground water flow model is the final phase of the resource assessment; however the model will be continually refined and updated as it is used in the regulatory and planning processes, and as more data becomes available.

LOCATION OF STUDY AREA

Hendry County is located in the central portion of south Florida, south of Lake Okeechobee (Figure 1). The study area includes all of Hendry County and a six mile buffer area into the adjacent counties of Charlotte, Lee, Collier, Broward, Palm Beach, and Glades. It lies generally within Townships 42 through 49 South, and Ranges 27 through 35 East, and encompasses approximately 2100 square miles, 1189 of which are in Hendry County (Figure 2).

PREVIOUS INVESTIGATIONS

Early investigations into the geology of south Florida were made by Matson and Clapp (1909), Matson and Sanford (1913), and Cooke and Mossom (1929). These studies were summarized by Parker and Cooke (1944), and Parker, Ferguson, Love and others (1955). More recent work on the geology of south Florida was done by Missimer (1984).

The stratigraphy of the area was discussed by Puri and Vernon (1964), and Peck (1979). The stratigraphy and paleoecology along the Caloosahatchee River was investigated by DuBar (1958). The Tamiami Formation in Hendry County was

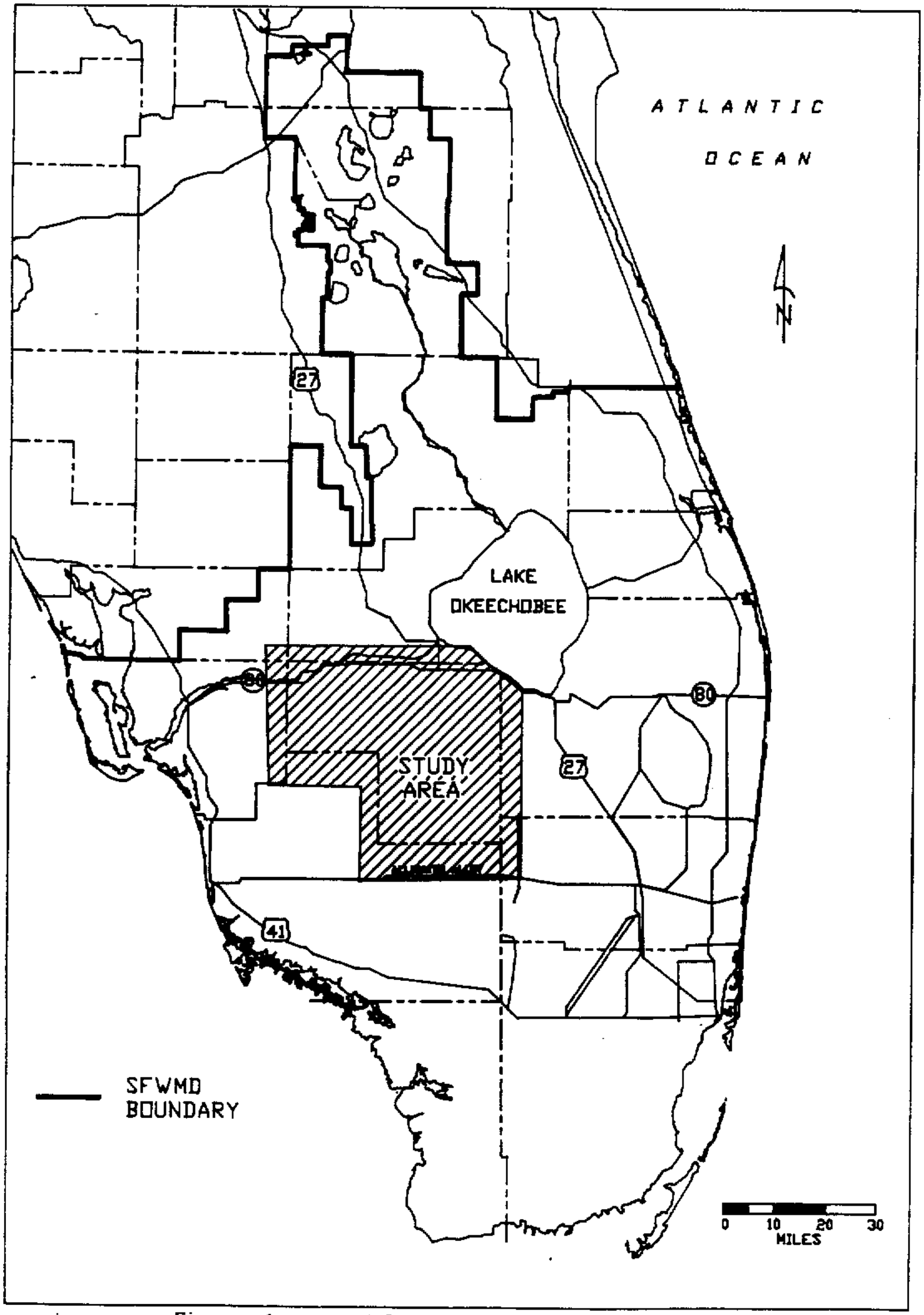

Figure 1. LOCATION OF STUDY AREA

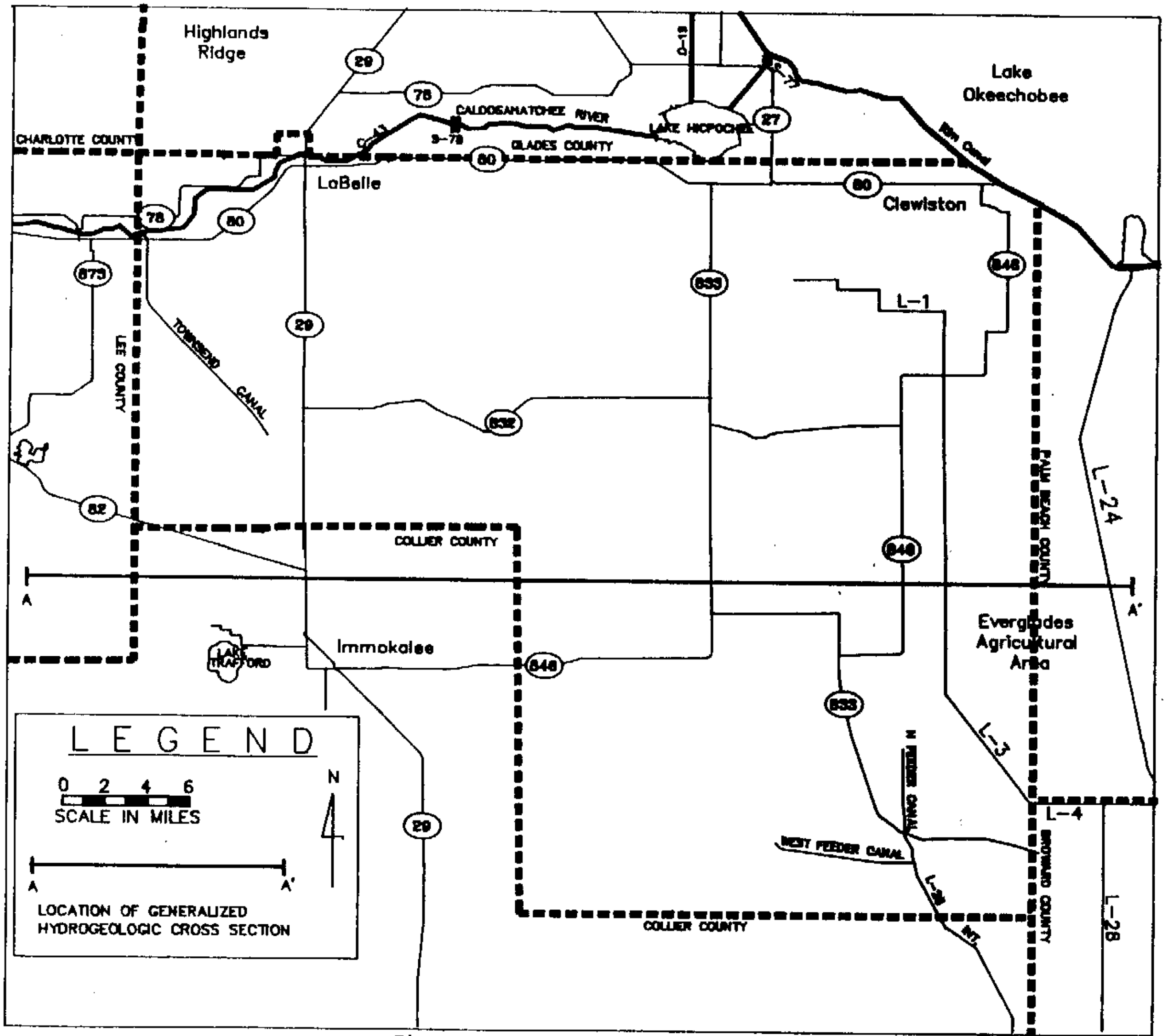

Figure 2. STUDY AREA

investigated by Slater (1978). The lithostratigraphy of the Hawthorn Group was discussed by Scott (1988).

The hydrogeology of the area was investigated by Klein, Schroeder, and Lichtler (1964) and Fish, Causaras, and O'Donnell (1983). The most recent work in Hendry County was done by Smith and Adams (1988). In addition, many site specific reports by various consultants are available. The reader is directed to the bibliography in Smith and Adams (1988) for a more complete list.

Hydrogeologic studies in areas adjacent to Hendry County were done in Lee County by Wedderburn et al. (1982), and James M. Montgomery, Inc. (1988); and in Collier County by Knapp, Burns, and Sharp (1986). Three-dimensional ground water flow models have been developed for Lee County (Bower, Adams, and Restrepo, 1989) and Palm Beach County (Shine, Padgett, and Barfknecht, 1990).

HYDROGEOLOGY

A brief summary of the hydrogeology which supports the model development follows. Readers wishing a more detailed discussion of the hydrogeology of the Hendry County area are referred to Smith and Adams (1988). Hydrostratigraphic nomenclature used in this report is consistent with the 1988 publication, which follow the guidelines set forth by the Southeastern Geological Society Committee on Florida Hydrostratigraphy (SGSCFH,1986).

Hendry County is underlain by three aquifer systems: the Surficial Aquifer System, the Intermediate Aquifer System, and the Floridan Aquifer System. The model developed for this study is limited to the Surficial Aquifer System and the upper portion of the Intermediate Aquifer System (Figure 3). The Floridan Aquifer System is not used for water supply in Hendry County because of its poor water quality; therefore, it is not discussed in this report.

Surficial Aquifer System

The Surficial Aquifer System consists of the water table aquifer and hydraulically connected units above the top of the first occurrence of laterally extensive and vertically persistent beds of much lower permeability (SGSCFH, 1986). In Hendry County, the Surficial Aquifer System is comprised of the water table aquifer and the lower Tamiami aquifer. Where they both occur, they are separated by leaky semi-confining beds which are collectively referred to as the Tamiami confining zone.

Water Table Aquifer. The water table aquifer occurs throughout Hendry County. It is generally 20 to 40 feet thick, although in localized areas around LaBelle and Immokalee it occurs in thicknesses in excess of 80 feet. It is extremely variable in composition and hydraulic properties. Information on the hydraulic properties of the water table aquifer in Hendry County is extremely limited. Reported values of hydraulic conductivity range from approximately 100 feet per day (ft/day) to 3500 ft/day. Because of the large degree of lateral heterogeneity, susceptibility to drought induced stress, availability of other water sources, and potential impacts to wetlands, the water table aquifer is not heavily used in Hendry County. However, some localized use occurs in areas where there is no other viable water source available.

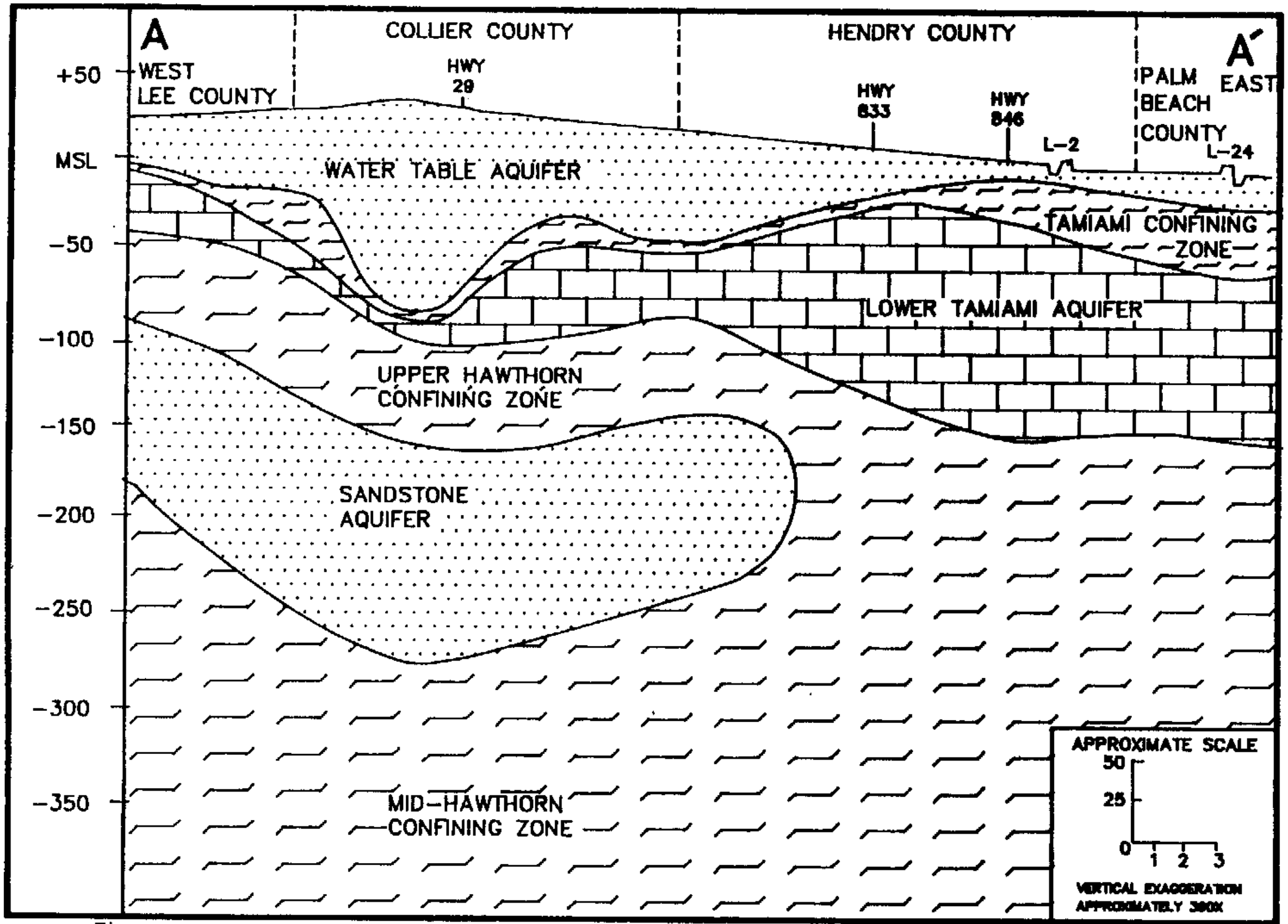

Figure 3. GENERALIZED HYDROGEOLOGIC CROSS SECTION OF HENDRY COUNTY

Tamiami Confining Zone. The Tamiami confining zone is a leaky semi-confining zone that separates the water table aquifer from the underlying lower Tamiami aquifer. It is present throughout most of Hendry County and occurs in thicknesses up to 60 feet. However, in some areas of the western portion of the study area, it is very thin and is characterized by high values of vertical hydraulic conductivity. In these areas, it does not form an effective confining layer, and the Surficial Aquifer System behaves as a single unconfined aquifer. These areas generally correspond to the localized thick occurrences of the water table aquifer previously discussed.

Lower Tamiami Aquifer. The lower Tamiami aquifer is the major source of ground water for most of Hendry County. It behaves as a semi-confined aquifer except in those areas where the Tamiami confining zone exhibits high values of vertical hydraulic conductivity, as previously discussed.

Reported transmissivities in the lower Tamiami aquifer range from approximately 2800 ft^2/day to 138,000 ft^2/day. Generally, the aquifer is the most productive in southeast and east-central Hendry County, with productivity decreasing to the north, west, and south. In the areas where the lower Tamiami aquifer is unconfined, it also exhibits lower thickness and hydraulic conductivity values. The aquifer is not a major water source in these areas (Figure 4).

Intermediate Aquifer System

The Intermediate Aquifer System in southwest Florida consists of the upper Hawthorn confining zone, the sandstone aquifer, the mid-Hawthorn confining zone, the mid-Hawthorn aquifer, and the lower Hawthorn confining zone. Together, these units act to confine the underlying Floridan Aquifer System.

Upper Hawthorn Confining Zone. The upper Hawthorn confining zone is a term used by Wedderburn et al. (1982) to describe a zone of low permeability in the uppermost part of the Hawthorn Group in Lee County. Smith and Adams (1988) extended this term into Hendry County to describe the zone of low permeability that forms the bottom of the Surficial Aquifer System and retards the vertical flow of water into the underlying aquifers of the Intermediate Aquifer System. The upper Hawthorn confining zone in the study area ranges in thickness from 10 feet near Immokalee to 260 feet southeast of LaBelle.

Sandstone Aquifer. The sandstone aquifer occurs only in the western portion of the study area (Figure 5). It generally occurs as two distinct lithologic zones - an upper clastic zone and a lower carbonate zone (Smith and Adams, 1988). In many locations, the two lithologic zones exhibit good hydraulic connection and act as a single semi-confined aquifer. The sandstone aquifer varies in thickness in the study area between 160 feet in southeastern Lee County to zero throughout eastern Hendry County. It is the major source of ground water in western Hendry County due to the low yields of the water table and lower Tamiami aquifers in the area. Reported values of transmissivity in the sandstone aquifer range from approximately 160 ft^2/day to 40,000 ft^2/day.

Smith and Adams (1988) reported the occurrence of an unnamed white limestone aquifer that occurs in Glades County northwest of LaBelle. Based on the limited information that exists, it is believed that this unit may be an extension of the sandstone aquifer; it is treated as such in this report.

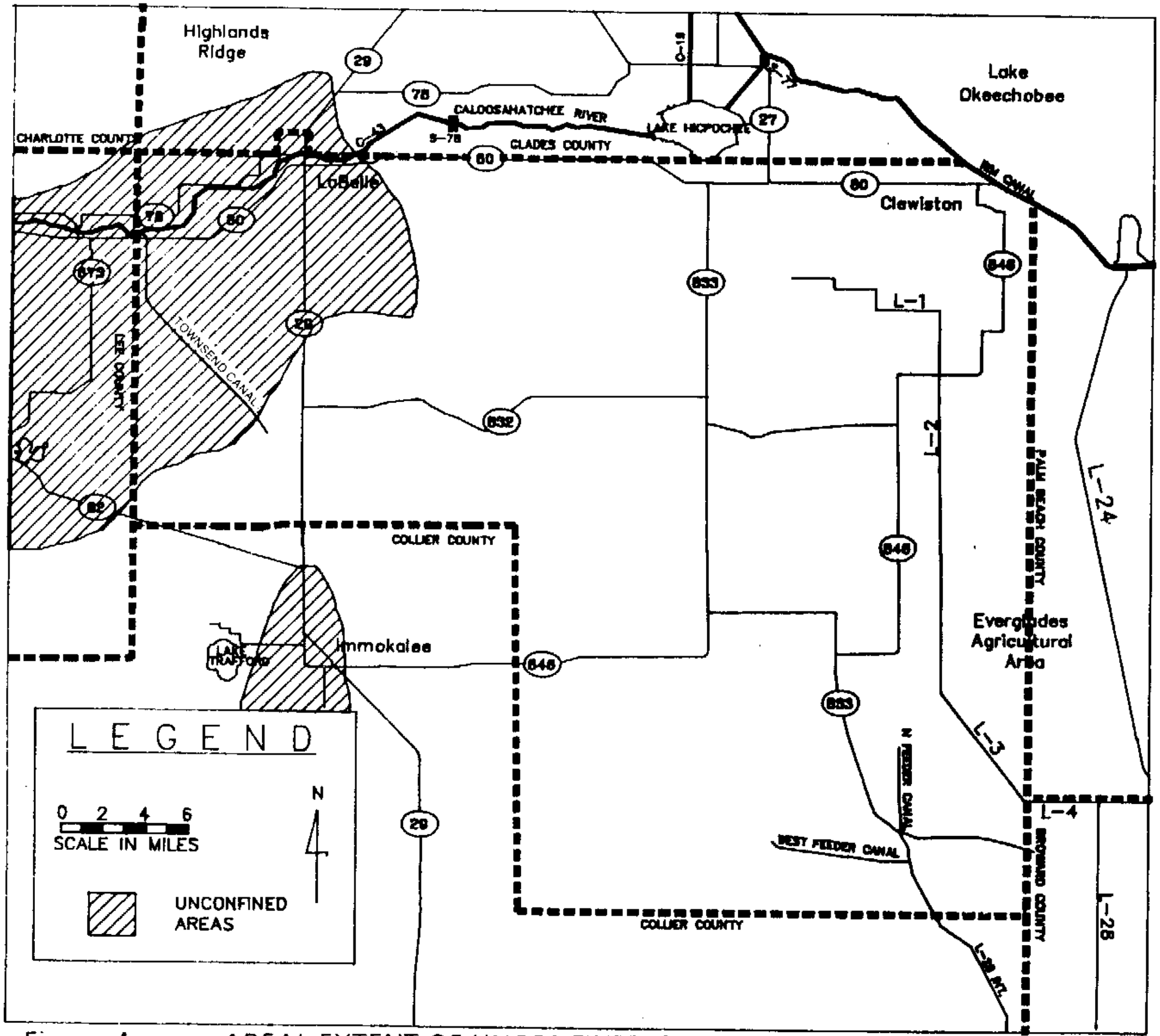

Figure 4. AREAL EXTENT OF UNCONFINED OCCURRENCE OF LOWER TAMIAMI AQUIFER

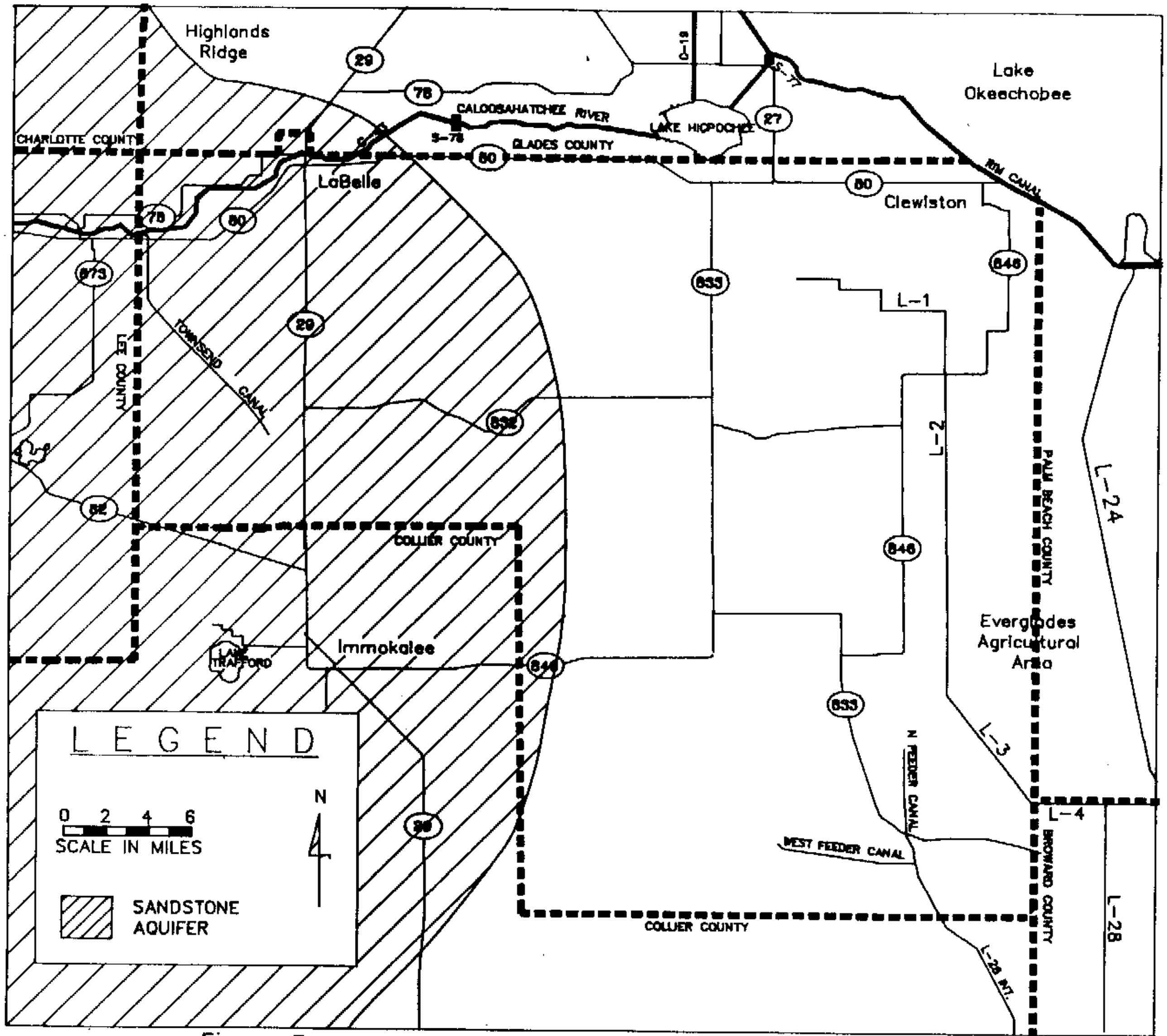

Figure 5. AREAL EXTENT OF THE SANDSTONE AQUIFER

Mid-Hawthorn Confining Zone. The mid-Hawthorn confining zone underlies the sandstone aquifer. In those areas where the sandstone aquifer does not occur, the mid-Hawthorn and upper Hawthorn confining zones occur merge into one unit. The mid-Hawthorn confining zone is a relatively thick heterogeneous mixture of clayey dolosilts exhibiting very low values of hydraulic conductivity (Knapp et al., 1986).

Mid-Hawthorn Aquifer. The mid-Hawthorn aquifer is not significantly developed in Hendry County. In those areas where it does occur, poor water quality and very low yields limit its use as a water source. Existing data indicate that no significant vertical flow occurs between the mid-Hawthorn aquifer and shallower units. As a result, the mid-Hawthorn aquifer is not included in the ground water flow model.

MODEL DESCRIPTION

INTRODUCTION

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

1. It is available in the public domain,

2. It is compatible with most computers with only minor modification,

3. The modular structure of the code and its excellent documentation allow easy modification of the code and the addition of new modules for specialty applications,

4. MODFLOW allows great flexibility of data file structure and management; this facilitates the employment of and interaction with other software for data manipulation,

5. The cell-by-cell flow 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. 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. PCG is frequently faster than SIP or SSOR for complex flow systems. Both SSOR and SIP were evaluated in the Hendry County model. SIP proved to be more efficient than SSOR in arriving at a solution, while SSOR was more stable than SIP during runs simulating drought conditions. Solutions generated by either method show no significant differences in head distribution. Table 1 summarizes the modules and their application to the Hendry County model.

Three types of boundary conditions are available: specified head, specified flux, and head dependent flux. Specified head boundaries, also referred to as constant head, maintain the same user-specified head level throughout the simulation. Specified flux boundaries can be simulated through the use of external source terms in the model. No-flow boundaries are a type of specified flux boundary. Head dependent flux boundaries, as the name implies, generate a flux dependent on the head in the cell and a user specified head assigned to the external source. All types of boundary conditions can be set anywhere within a model grid. A no-flow boundary is implicit along the outer edges and bottom of a model grid.

TABLE 1
MODFLOW MODULES AND APPLICATION TO THE HENDRY COUNTY MODEL

MODFLOW MODULE	FUNCTION	USE IN MODEL
Basic	Model Administration	Used
Block Centered Flow	Computation of Aquifer Parameter Input Sets	Used
Well	Simulates a source/sink to the model that is not affected by aquifer head	Used to simulate pumpage
Drain	Simulates discharge from model dependant on aquifer head	Not Used
River	Simulates effects of river leakage. May recharge or drain model depending on head differences	Used to simulate surface water interactions
ET	Simulates discharge through evapotranspiration	Used
General Head Boundary	Simulates a source/sink at rates depending on head differences bwt. source/sink and aquifer	Not Used
Recharge	Simulates recharge to model from infiltration of rainfall	Used
SIP	Solves finite difference equations using the Strongly Implicit Procedure	Used
SSOR	Solves finite difference equations using the Slice Successive Over Relaxation Method	Used
PCG	Solves finite difference equations using the Preconceived Conjugate Gradient Method	Not Used
Output Cntrl.	Specifies output format	Used
Observation Nodes	Generates a file of computed heads for selected nodes	Used to generate convergence maps and hydrographs

DISCRETIZATION

The study area was discretized into a horizontal grid comprised of cells measuring one square mile each, assembled into a grid of 48 rows and 54 columns (Figure 6). 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. However, variations in the survey grid made this difficult.

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) specified for 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 Hendry County.

The Hendry County model contains three layers (Figure 7). Layer 1 represents the water table aquifer, layer 2 represents the lower Tamiami aquifer, and layer 3 represents the sandstone aquifer. While the sandstone aquifer occurs as two distinct lithologic zones, existing data indicates that it acts as a single, semi-confined aquifer. Therefore, it was represented as one layer in the model. The Tamiami confining zone is represented as vertical conductance terms in layer one, and the upper Hawthorn confining zone is represented as vertical conductance terms in layer two. The top of the mid-Hawthorn confining zone was simulated by the no-flow boundary implicit at the bottom of the model grid. This was based on lithologic and hydrogeologic data that indicate that no significant vertical flow takes place between the mid-Hawthorn confining zone and shallower units.

BOUNDARY CONDITIONS

MODFLOW allows the user to set several types of boundary conditions; no-flow, specified head and specified flux boundaries are commonly used types. No-flow boundaries are used where the ground water flow regime is such that flow across a boundary is not expected to occur. Specified head was chosen for the model boundaries in Hendry County where flow is expected to occur because:

1. The specified head condition allows the model to compute fluxes for a variety of ground water flow configurations,whereas the specified flux condition requires the user to estimate fluxes for a single ground water flow condition, and

2. The specified head condition is established only once for a model run in a file designated solely for that purpose, while the specified flux condition requires the user to set the fluxes for each stress period in a file used for other purposes. The specified head option greatly simplifies file management in a model of this size.

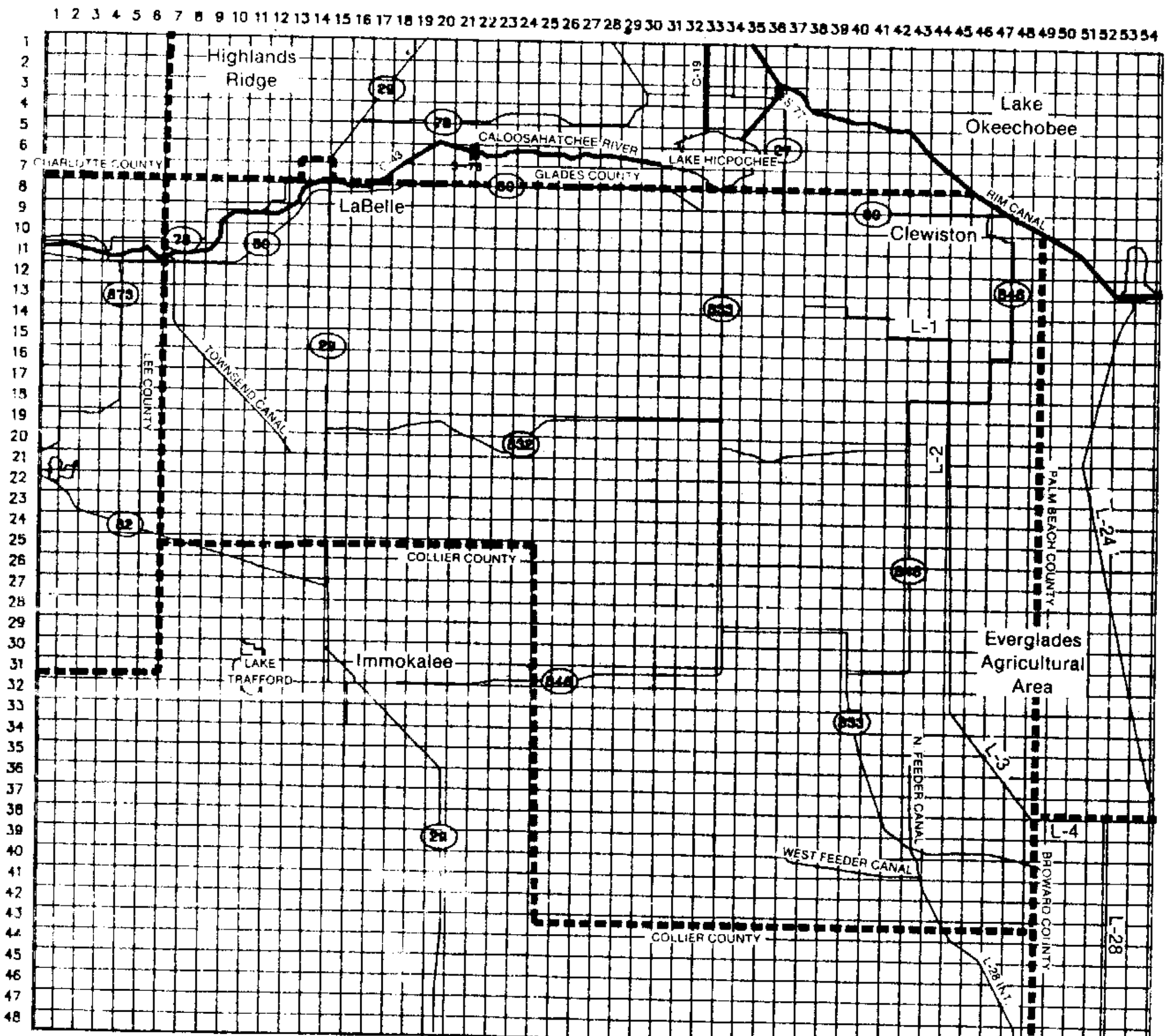

Figure 6. MODEL GRID

AQUIFER SYSTEM		HYDROGEOLOGIC UNIT	MODEL LAYER
Surficial Aquifer System		Water Table Aquifer	Layer 1
		Tamiami Confining Zone	Represented by Vertical Conductance Terms between layers 1 & 2
		Lower Tamiami Aquifer	Layer 2
Intermediate Aquifer System		Upper Hawthorn Confining Zone	Represented by Vertical Conductance Terms between layers 2 & 3
		Sandstone Aquifer	Layer 3
		Mid-Hawthorn Confining Zone	Not Represented in Model

Figure 7 HYDROGEOLOGIC UNITS AND CORRESPONDING MODEL LAYERS

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. Most of the large withdrawals are located such that the associated drawdowns do not reach the model boundaries, therefore any overestimation of flow into the model is assumed to be insignificant. This assumption was tested during sensitivity analysis of the model.

In layers 1 and 2, representing the water table aquifer and the lower Tamiami aquifer, the boundaries consisted of specified head cells set six miles outside the county border except along Lake Okeechobee, where specified head cells were set along the rim canal (Figure 8). Six miles was chosen assuming that this distance was great enough to minimize any boundary effects in Hendry County. This assumption was tested during sensitivity analysis of the model. In layer 3, representing the sandstone aquifer, boundary conditions are set similar to layers 1 and 2, except for a no-flow boundary set at the easternmost extent of the sandstone aquifer (Figure 9). A no-flow boundary was chosen here because lithologic and hydrogeologic data indicate that the aquifer pinches out, and potentiometric surface maps (Smith and Adams, 1988) show that the principle flow in the sandstone aquifer occurs parallel to its eastern boundary. Therefore it is assumed that no significant flow occurs across the boundary.

HYDRAULIC CHARACTERISTICS

All data describing aquifer parameters, thicknesses, tops, bottoms, etc., are from Smith and Adams (1988), except when stated otherwise. This data is presented in Appendix A.

Transmissivity

Layer 1 (Water Table Aquifer). MODFLOW calculates the transmissivity of unconfined aquifers by multiplying the 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. Head changes throughout the simulation result in changes in the calculated transmissivity in an unconfined aquifer. When the simulated head in a cell drops to a level at or below the aquifer bottom elevation, the transmissivity of the cell becomes zero, resulting in the cell "going dry" and becoming inactive for the remainder of the simulation. This situation does not occur in the calibrated model or any of the runs simulating drought conditions.

Little data exists on the hydraulic conductivity of the water table aquifer in Hendry County. However, existing data ranges between 100 ft/day and 3500 ft/day, with most values being less than 800 ft/day. The distribution of hydraulic conductivity was based on lithologic and hydraulic descriptions of well cuttings from Smith and Adams (1988). Assigned values of hydraulic conductivity ranged from 100 ft/day for fine sand to 1000 ft/day for solutioned limestone. The bottom of layer 1 was based on data from Smith and Adams (1988).

Layer 2 (Lower Tamiami Aquifer). The transmissivity grid for layer 2 (lower Tamiami aquifer) was developed by regionalization of the transmissivity values reported in Smith and Adams (1988). The regionalization was accomplished using a kriging interpolation technique, and resulted in a range of transmissivity from 9544 ft^2/day to 113,600 ft^2/day.

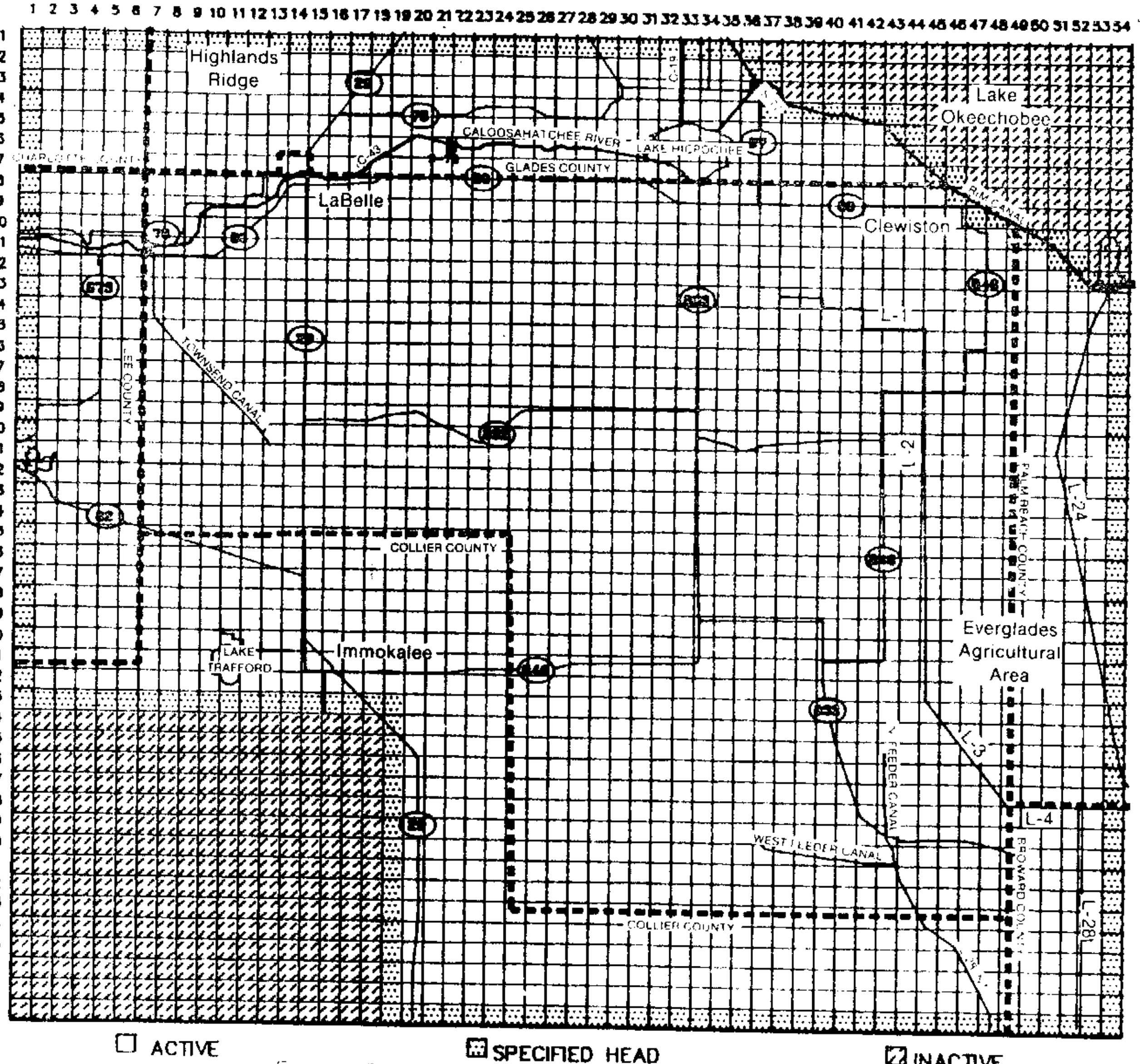

Figure 8. CELL TYPES, LAYERS 1 AND 2

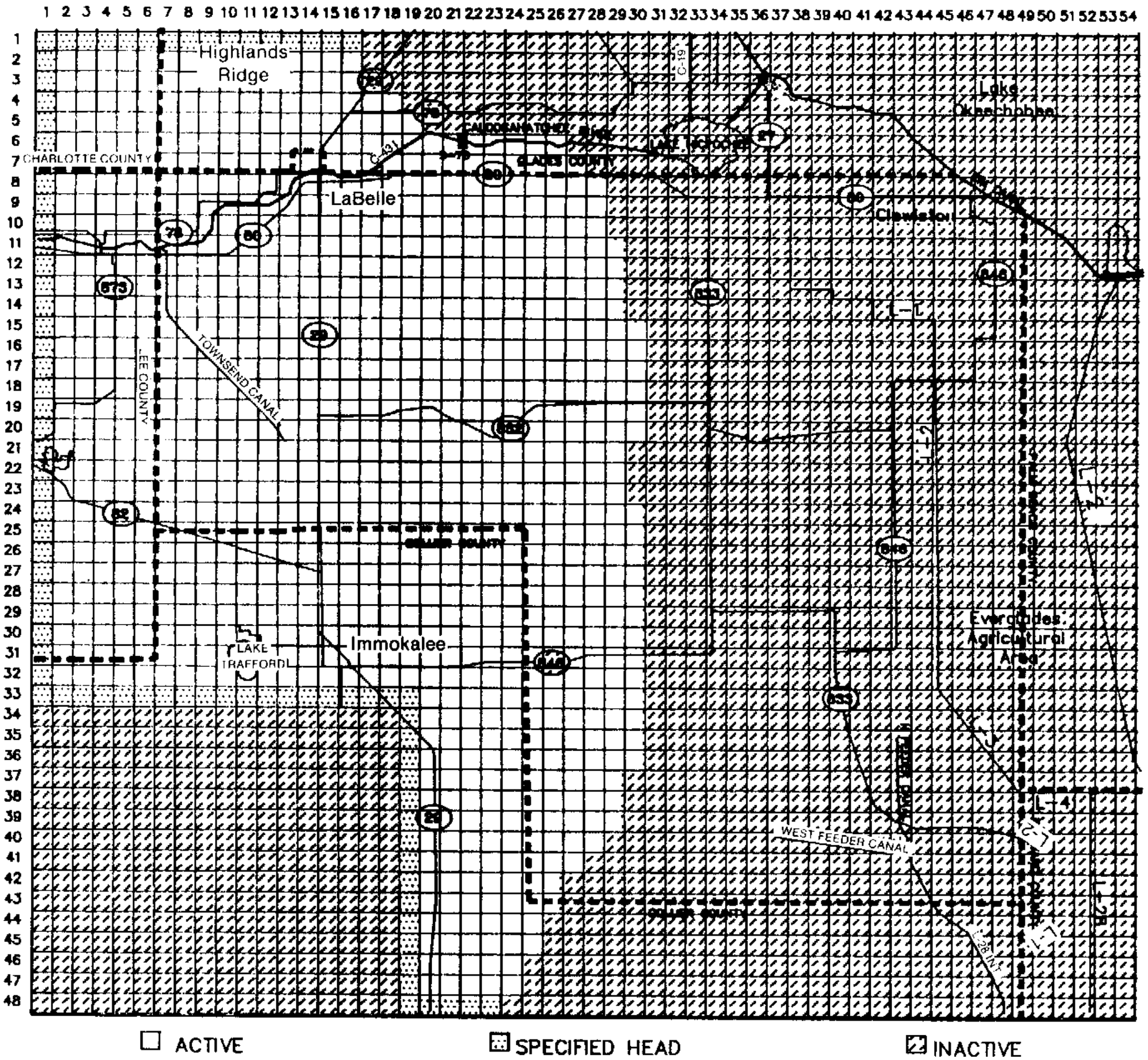

Figure 9. CELL TYPES, LAYER 3

Layer 3 (Sandstone Aquifer). The transmissivity grid for layer 3 (sandstone aquifer) was developed using the same procedure described for layer 2 (lower Tamiami aquifer). However, the grid resulting from the kriging algorithm did not accurately represent the sandstone aquifer in eastern Hendry County, where it does not occur (Figure 5). The grid was modified in these areas to more accurately simulate the easternmost extent of the aquifer. Resulting values of transmissivity representing the sandstone aquifer ranged from 390 ft^2/day to 16,600 ft^2/day.

Specific Yield

Data on specific yield of the water table aquifer in Hendry County is very limited. Therefore, specific yield for layer 1 (water table aquifer) was set at 0.2 (Fetter, 1980, Driscoll, 1986), which represents the average value for the type of sediments that comprise the water table aquifer.

Storage

The storage coefficient grids for layer 2 (lower Tamiami aquifer) and layer 3 (sandstone aquifer) were developed from the aquifer test data reported in Smith and Adams (1988). Resulting values for the storage coefficient in layer 2 (lower Tamiami aquifer) ranged from 0.0001 to 0.0006. Storage coefficient values for layer 3 (sandstone aquifer) ranged from 0.00008 to 0.0004.

Vertical Conductance

Tamiami Confining Zone. Vertical flow in the Tamiami confining zone is a function of the vertical conductance term (Vcont) entered in layer 1, and the head difference between layer 1 (water table aquifer) and layer 2 (lower Tamiami aquifer). Values of Vcont were obtained by dividing vertical hydraulic conductivities by the thickness of the confining zone. In those areas where the Surficial Aquifer System behaves as a single unconfined aquifer, the Tamiami confining zone is characterized by thin occurrences, high values of vertical hydraulic conductivity, or both. The resulting high values of Vcont cause layer 2 to react to stress in a similar manner as layer 1 in these areas. Reported values of vertical hydraulic conductivity of the Tamiami confining zone range from 0.01 ft/day to 1 ft/day. Reported thicknesses of the Tamiami confining zone range from 13 feet to 66 feet. The resulting values of Vcont range from 0.0000068 day^{-1} to 0.075 day^{-1}.

Upper Hawthorn Confining Zone. The Vcont grid representing the upper Hawthorn confining zone was developed in the same manner as the Vcont grid representing the Tamiami confining zone. Reported values of vertical hydraulic conductivity of the upper Hawthorn confining zone range from 0.000007 ft/day to 0.56 ft/day. Reported thicknesses of the upper Hawthorn confining zone range from 15 feet to 260 feet. Resulting values of Vcont range from 0.00000014 day^{-1} to 0.0053 day^{-1}.

SURFACE WATER INTERACTIONS

The river module of MODFLOW was used to simulate the interaction of ground water and surface water in distinct water bodies. The simulated flow between ground water and surface water is controlled by the river bottom sediment hydraulic conductance, river stage, aquifer head, and elevation of the river bottom. Flow can occur both into and out of the river, depending on the direction of the gradient between river stage and aquifer head. When the aquifer head is higher than the river stage, flow is from the aquifer into the river, and conversely, when the river stage is higher than the aquifer head, flow is from the river into the aquifer. The rate of flow into or out of the river is determined by the difference between river stage and aquifer head, and is proportional to the conductance of the river bed. If the aquifer head falls below the bottom of the river, flow into the aquifer occurs at a rate equal to the difference between the river stage and river bottom elevation, and is proportional to the conductance of the river bed. Further reductions in aquifer head produce no increase in flow into the aquifer. River bed conductance for a cell is obtained by multiplying the hydraulic conductivity of the river bottom sediments by the wetted perimeter and the length of the river reach that occurs in the cell, and dividing by the thickness of the river bed sediments. MODFLOW assumes that the hydraulic conductivity of the river bottom and river channel sides is the same. In south Florida, this assumption may not be valid due to accumulation of fine sediments on the bottom of the channel which can significantly reduce flow. In this case, seepage through the sides of the channel may account for the majority of flow. This situation can be approximated by assigning different values of hydraulic conductivity to the bottom and sides of the river channel when calculating the river bed conductance term. The values of riverbed hydraulic conductivity used in the model ranged between 0.001 ft/day and 0.1 ft/day.

Only those surface water bodies with reliable information on widths, depths, and stages were simulated in the Hendry County model. They included the Caloosahatchee River (C-43), C-19, the rim canal surrounding Lake Okeechobee, the Miami Canal (L-23, 24, and 25), L-1, L-2, L-3, L-4, L-28 interceptor canal, north feeder canal, west feeder canal, the Townsend Canal, and Lake Trafford. Bottom elevations, profiles, and configuration of most canals were obtained from District records and aerial photographs. Bottom elevations for the Caloosahatchee River were obtained from U. S. Army Corps of Engineers soundings. District stage data were used to calculate average wetted perimeters. Cells containing river reaches are shown in Figure 10. Model input data for the river module is presented in Appendix B.

RECHARGE

Recharge resulting from precipitation was calculated using a method discussed in Bower et al. (1990). Recharge is calculated as a function of interception, depression storage loss, and surface drainage. In determining recharge from precipitation in Hendry County, it was assumed that there was only one precipitation event per rainy day. Interception and depression storage are satisfied early in an event, so large portions of many small events are intercepted or stored in small depressions (Linsley et al., 1982).

Interception is the amount of precipitation which wets and adheres to above ground objects until it returned to the atmosphere through evaporation (Viessman, et al., 1977). The amount of precipitation intercepted is a function of the storm character, season, and species, age, and density of the vegetation. Since Hendry County is predominantly agricultural, it was assumed that variations in these factors would be negligible in a regional model. Therefore, a uniform factor of 0.8 for interception (80% not intercepted) was used throughout the model.

The precipitation that reaches the ground may infiltrate, flow over the surface, or become trapped in small depressions from which the only escape is evaporation or infiltration. The maximum depression storage loss for impervious surfaces on a 1% slope is 0.11 inches. Since almost all of the modeled area exhibits slopes of less than

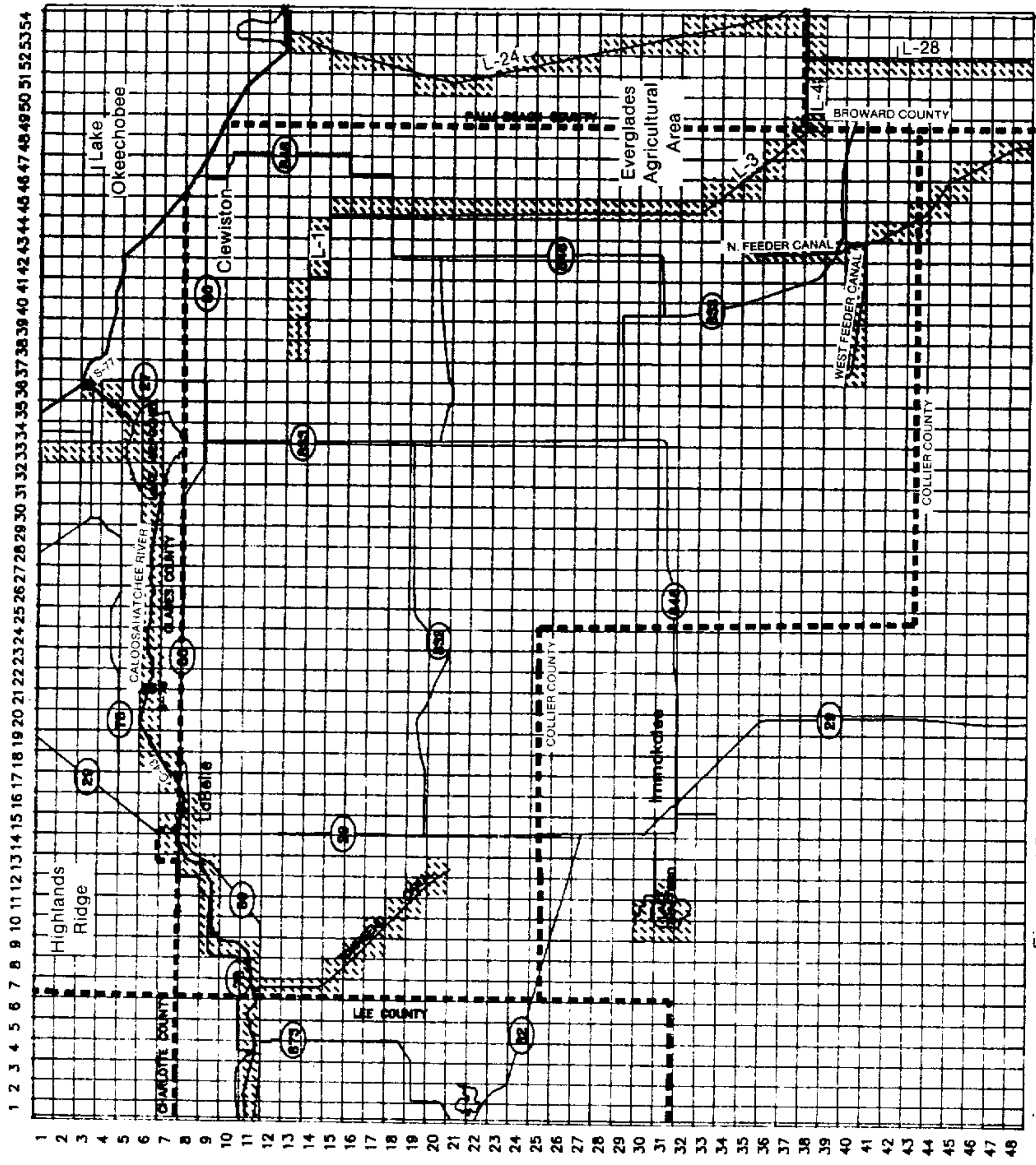

Figure 10. CELLS CONTAINING RIVER REACHES, LAYER 1

1%, the storage loss figure of 0.11 inches is assumed to be a valid maximum for the entire modeled area.

For permeable soil conditions (such as those found throughout Hendry County), infiltration normally occurs at a much faster rate than evaporation. Therefore, it was assumed that all of the water stored in depressions would infiltrate. To accomplish this, the value of instantaneous hydraulic conductivity was set to 10 ft/day, and the vertical hydraulic conductivity of the soil zone was set to 0.01 of the horizontal hydraulic conductivity of the water table aquifer. This resulted in an almost instantaneous infiltration of a depression storage of 0.11 inches. Readers desiring a more detailed discussion of the method used to calculate recharge are directed to Bower et al. (1990).

Surface drainage for south Florida conditions can be estimated as a function of the net precipitation and a coefficient relating the potential for runoff to surface drainage. Since Hendry County is extremely flat, it is assumed that these losses will be minor, and the coefficient was set to 0.01.

Use of this method resulted in a nearly uniform ratio of recharge to precipitation of 0.79. Monthly rainfall data was obtained from 45 rainfall stations located in and around the study area. The data was regionalized using a kriging interpolation technique, which produced a rainfall value for each cell. These values were multiplied by 0.79 to obtain a recharge value for each cell. Maps of the monthly rainfall distribution and locations of rainfall stations are presented in Appendix C.

EVAPOTRANSPIRATION

MODFLOW simulates evapotranspiration as a linear function, with the maximum rate occurring at a specified surface, decreasing to zero at a user specified extinction depth. The maximum evapotranspiration rate was set to the recorded monthly pan evaporation rate at stations located in Clewiston, Lehigh Acres, and Hurricane Gate 1, which is located at the outlet of Lake Okeechobee to the Caloosahatchee River. Since evaporation data is available from only three stations located in the northern portion of the modeled area and the evaporation rates at each station were similar, data from the three stations were averaged, and a uniform rate was applied throughout the model.

The maximum evapotranspiration rate was set to occur at land surface. Extinction depths were established for each cell based on the land uses occurring within the cell. Land use types and corresponding extinction depths used in the model are listed in Table 2. The area of each land use occurring in a cell was totalled, and a weighted average was used to determine the extinction depth for each cell. Model input data for the evapotranspiration module is presented in Appendix D.

GROUND WATER USE

Water use figures for the model were determined using data from individual water use permits issued by the District. Individual water use permits are required if the average daily water use equals or exceeds 100,000 gallons per day (gpd). An individual water use permit is also required of smaller uses (average daily use exceeding 10,000 gpd) in Reduced Threshold Areas (RTA). The southwest corner of Glades County, the northwest corner of Hendry County, and all of Lee County are designated RTA's. The District also issues general water use permits to all uses less

TABLE 2
EVAPOTRANSPIRATION EXTINCTION DEPTHS
(Modified from Florida Irrigation Guide (SCS 1982)

CROP TYPE	EXTINCTION DEPTH (Feet Below Land surface)
Small vegetables	0.5 - 2
Urban Landscape	2-6
Sugar Cane	3
Pine wetlands	1-3
Cypress wetlands	1-8
Pasture	2-6
Citrus	3-5
Forested uplands	1.5-3

than 100,000 gallons per day, with the exception of single family homes, duplexes, and water used strictly for fire-fighting (SFWMD, 1985).

General water use permits were not included in the determination of water use for the model because the total amount covered in general permits is insignificant when compared to individual permits. However, all legal uses of water, no matter how small, are important from a management standpoint because they are protected by the District's water use rules from adverse impacts caused by other water users. Therefore, impacts to the smaller users can effect larger users, requiring reduced withdrawals or mitigation of the adverse impacts. This can be of critical importance during the management of competing uses.

Agricultural

Agricultural water use accounts for over 99% of the permitted ground water use in Hendry County (Smith and Adams, 1988). Records of water withdrawn generally do not exist for agricultural uses. Therefore, agricultural water use was estimated. The irrigation water requirements of different crops was estimated using a method described by the U. S. Soil Conservation Service (USDA, 1970). This method uses the modified Blaney-Criddle formula to estimate the water requirements of various crops. Factors such as crop type, soil type, air temperature, daylight hours, effective rainfall, and irrigation system efficiency are used to calculate the irrigation requirements of different crops found throughout the modeled area.

Data on all agricultural water uses with individual water use permits was assembled into a spreadsheet. This information included crop types, acreage, irrigation system data, well information, and soil types. Precipitation data from the LaBelle station was used to determine effective rainfall. The irrigation requirements for each permitted use were estimated for each month of the calibration period (January 1986 through December 1988). The monthly irrigation requirement for each permitted use was distributed among the permitted withdrawal facilities in proportion to their pump capacities. Individual wells were assigned to the proper model cell and then all the well withdrawals within a cell were summed to give a single withdrawal rate for that cell for a given month. Agricultural water use data is presented in Appendix E. Figures 11, 12, and 13 show the distribution of cells with well withdrawals simulated for layer 1 (water table aquifer), layer 2 (lower Tamiami aquifer), and layer 3 (sandstone aquifer), respectively.

Public Supply

There are five users of ground water for public supply in the study area with individual water use permits: LaBelle, Immokalee, Port LaBelle, Hendry County Department of Corrections, and a campground/trailer park. Withdrawal records are available for all of these except the Department of Corrections; their public supply use is combined with a much larger agricultural use. Public supply withdrawals were assigned to the proper cell and added to the agricultural withdrawal data file. Information on public supply ground water use is presented in Appendix E.

Other Ground Water Uses

Most of the other uses of ground water in Hendry County can be assigned to one of three types: rural self-supplied, industrial, and mining-dewatering. The mining-dewatering uses are short-term uses which require on-site impoundments to store withdrawn water. The only consumptive use in these operations is water lost to

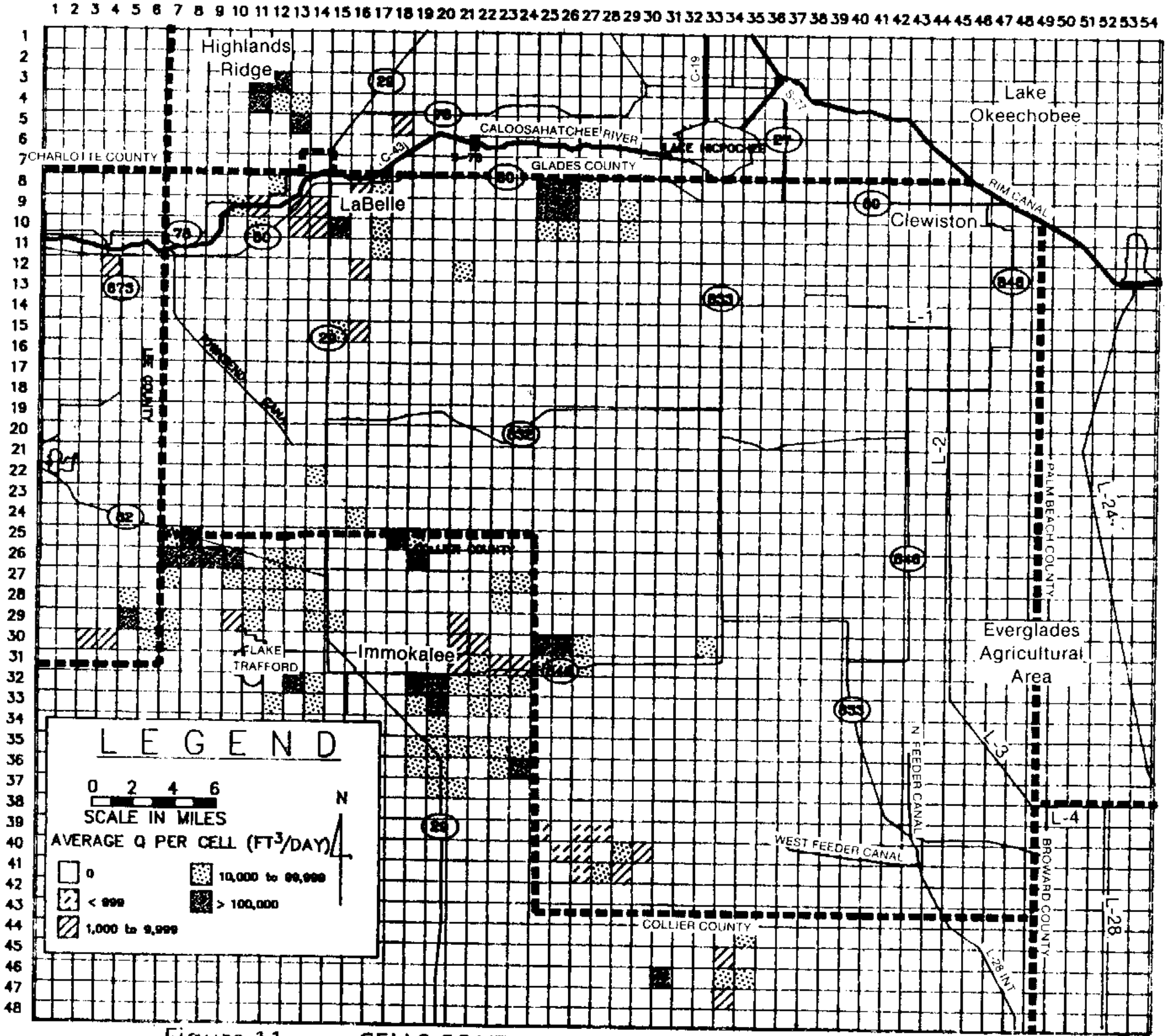

Figure 11. CELLS CONTAINING DISCHARGING WELLS, LAYER 1 (WATER TABLE AQUIFER)

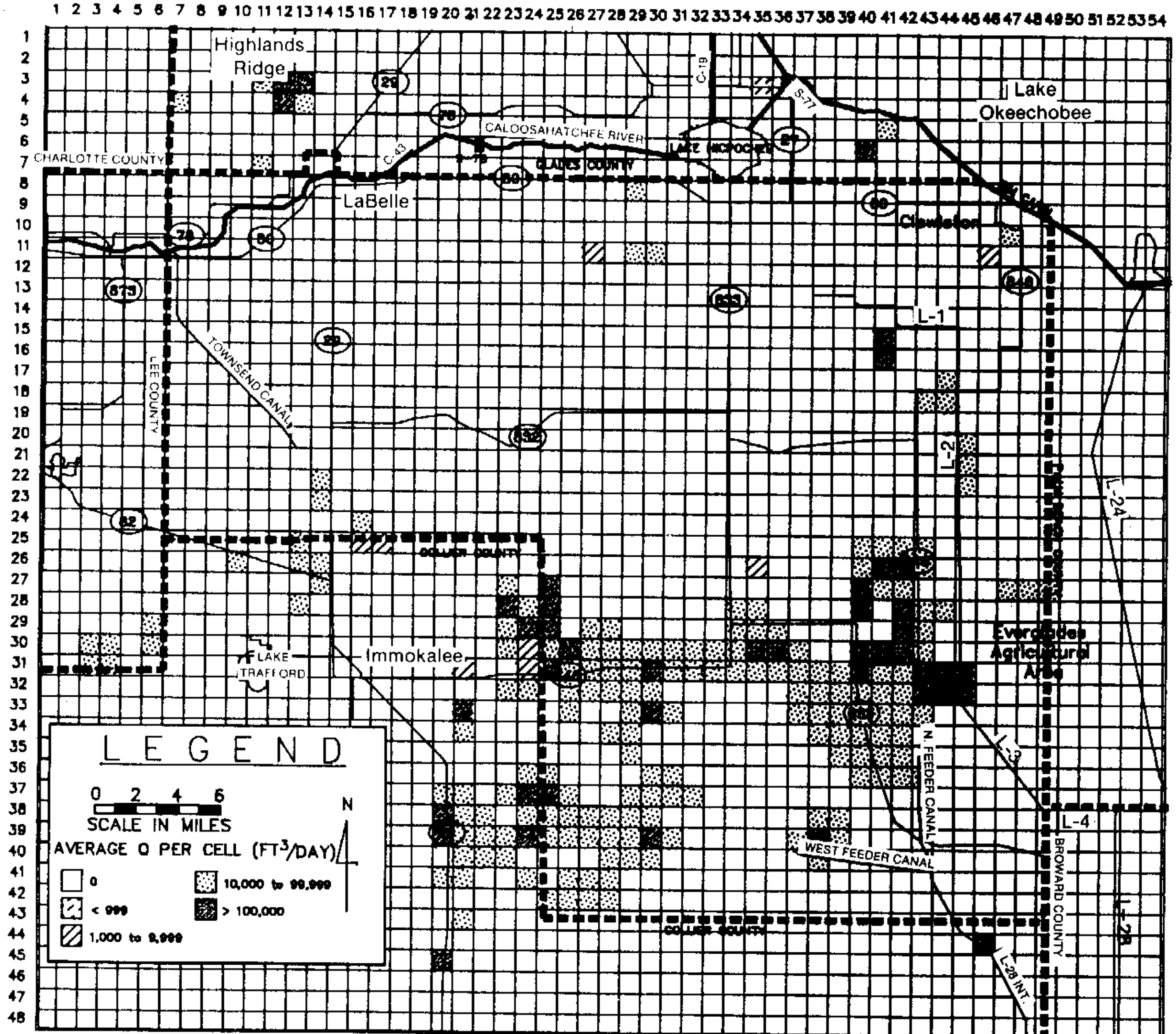

Figure 12. CELLS CONTAINING DISCHARGING WELLS, LAYER 2 (LOWER TAMIAMI AQUIFER)

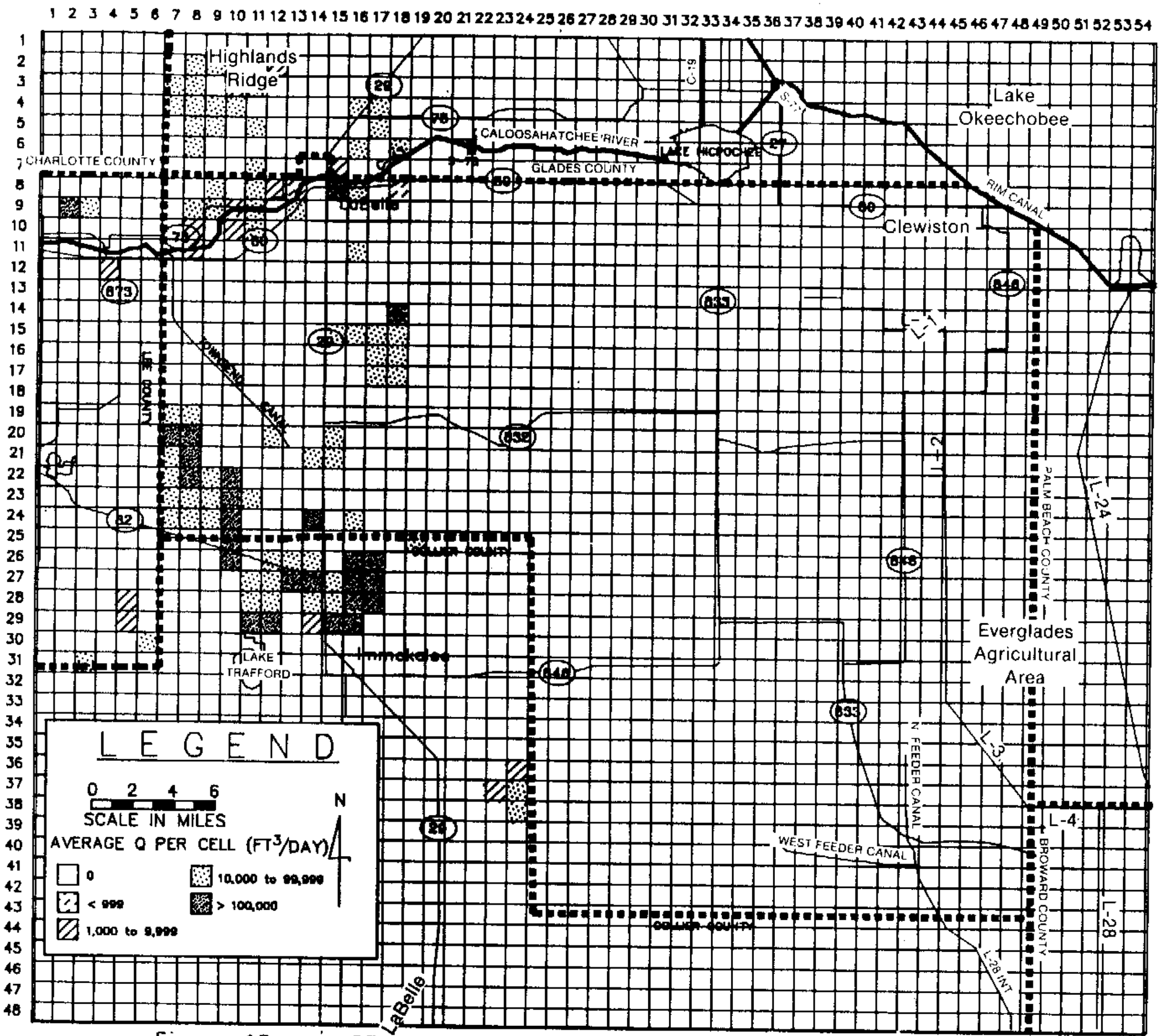

Figure 13. CELLS CONTAINING DISCHARGING WELLS, LAYER 3 (SANDSTONE AQUIFER)

evaporation, which is insignificant for a regional model with a coarse grid. Therefore, mining-dewatering uses were not simulated in the model. Rural self-supplied water use in Hendry County was estimated at 1.9 million gallons per day (mgd) by Leach (1980). Leach (1984) also projected rural self-supplied water use at 3.39 mgd in the year 2000. This amount is approximately 0.01% of the permitted ground water use in Hendry County, and is considered insignificant for purposes of this study. Therefore, rural self-supplied water use was not simulated in the model. There are several industrial uses of ground water in Hendry County, mainly small citrus processing plants and air conditioning uses. Permitted industrial ground water use in Hendry County total 8.6 million gallons per month, or 0.03% of all ground water use (Smith and Adams, 1988). Industrial water use is also widely distributed throughout the modeled area. Therefore, industrial water use was not simulated in the model.

CALIBRATION

The Hendry County model was calibrated to both steady state and transient conditions. Locations of the observation wells used in the calibration process are shown in Figures 14, 15, and 16. The calibration period was January 1986 through December 1988. This period was chosen because it is the most recent period represented by ample water level observations. An in-depth analysis and discussion of the water level data from the monitor network can be found in Smith and Adams (1988). A multi-year period was chosen so that the effect of annual variations in canal stage, evapotranspiration, irrigation, and seasonal rainfall could be seen.

STEADY STATE CALIBRATION

The steady state calibration was done in two parts. Initial steady state runs served to make the first adjustments to the aquifer parameters used in the model. Average values of recharge, evapotranspiration, pumpage, and surface water stage elevations were used. These average values were calculated from the monthly values within the calibration period. Head distributions resulting from these runs were compared to water levels in observation wells averaged over the calibration period. The adjusted aquifer parameter data sets were then used in the transient calibration runs, where they were refined further. Finally, the steady state model was re-run using the data sets from the transient calibration to obtain a final steady state run. This final steady state run provided much of the information used to describe the ground water flow regimes in Hendry County, and to act as the base case for most of the sensitivity analyses and predictive scenarios.

TRANSIENT CALIBRATION

The transient runs comprised 36 stress periods of one month each. Each stress period contained one time step. The model was also run using five time steps per stress period to determine if the number of time steps in a stress period affected the solution. The maximum head difference was 0.01 feet, and differences in the volumetric budget were insignificant. Therefore, to maximize computer utilization, the model was run using one time step per stress period.

Starting heads in each layer were calculated from water level data obtained from USGS monitor wells in December 1985, which is representative of a moderately stressed condition. The data was regionalized using a kriging interpolation technique, which provided a head for every cell.

It was attempted to calibrate so that agreement between observed water levels in monitor wells and simulated water levels in the cells which represent the location of those wells, averaged over the calibration period, were generally within the following ranges:

Layer 1 (water table aquifer)	+/- 2 feet
Layer 2 (lower Tamiami aquifer)	+/- 3 feet
Layer 3 (sandstone aquifer)	+/- 4 feet

This is the same procedure used to calibrate the Lee County model (Bower et al., 1990). The procedure was assumed to be valid for the Hendry County model because the hydrogeology of the two counties is similar, and they are within the same regional flow system. Tolerance is increased with depth for the following reasons:

1. In the water table aquifer, small changes in water levels reflect potentially large impacts, particularly to wetlands, and

2. The aquifer parameters typical of the deeper semi-confined aquifers in the area cause the 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 USGS monitor wells. These were used to aid in interpretation of the numerous model runs, particularly how the simulated water levels changed over time in response to varying stresses. These hydrographs are presented in Appendix F.

Agreement of simulated water levels with observed water levels 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 Hendry County model, due to the 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 intensive 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 significantly affected. This situation is referred to as cell-wide averaging, and occurs at several locations in the Hendry County 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.

3. Most of the rainfall in the study area occurs as intense short term events over relatively small areas. Ground water levels respond almost immediately to these events. Most of the observation wells are located a significant distance from a rainfall station, so an intense rainfall event causing water level fluctuations at a given well may not be represented in the rainfall data. In addition, the short duration of these storms is masked by using monthly stress periods. The discrepancy caused by these phenomena can also be minimized by averaging the difference between observed and simulated heads over the calibration period when comparing the results.

4. Inspection of aerial photographs reveals that Hendry County has a dense network of canals, ranging in width from several feet to 400 feet. Only those canals with reliable data on depths, profiles, configurations, and stage, were

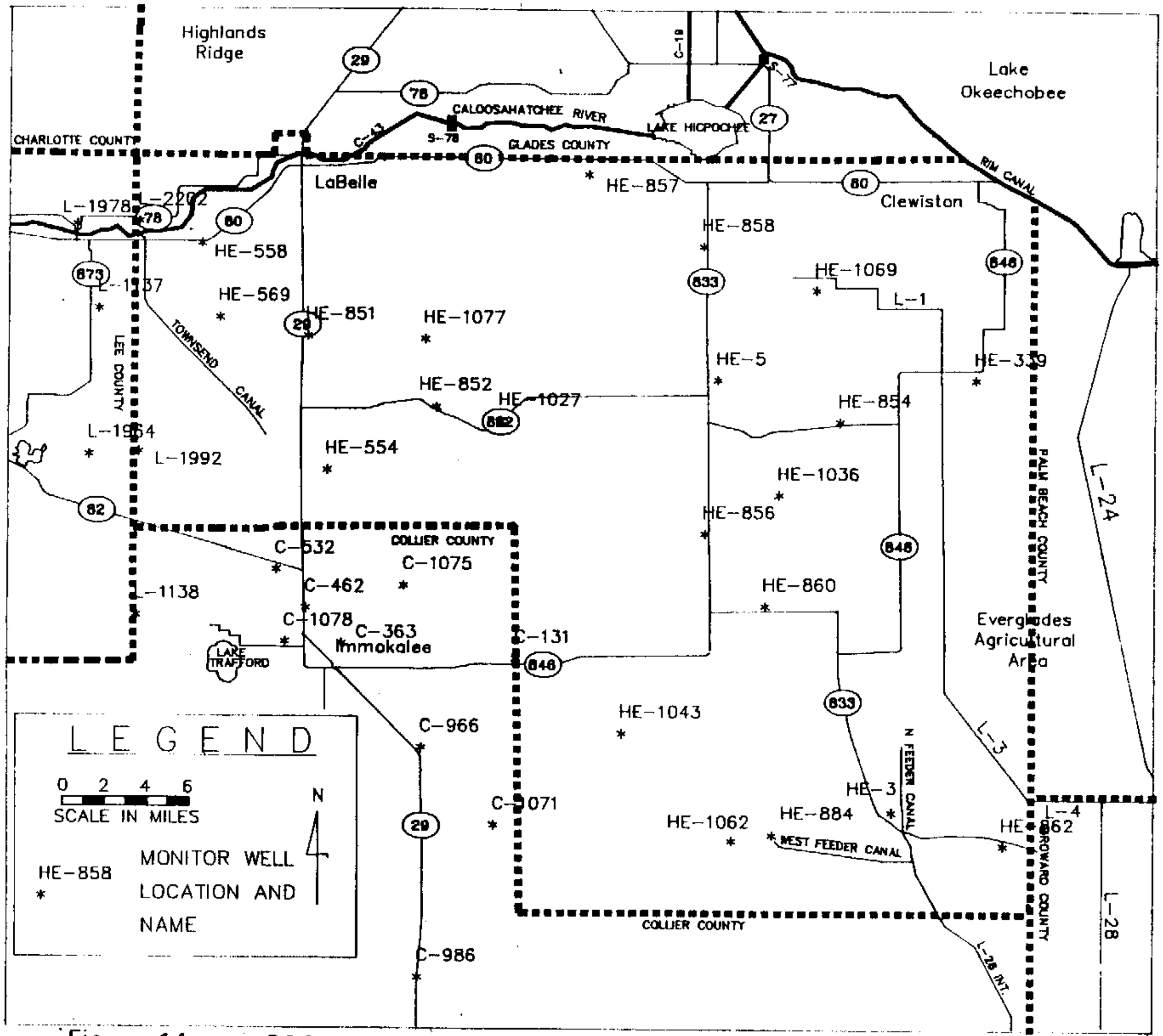

Figure 14. OBSERVATION WELLS, LAYER 1 (WATER TABLE AQUIFER)

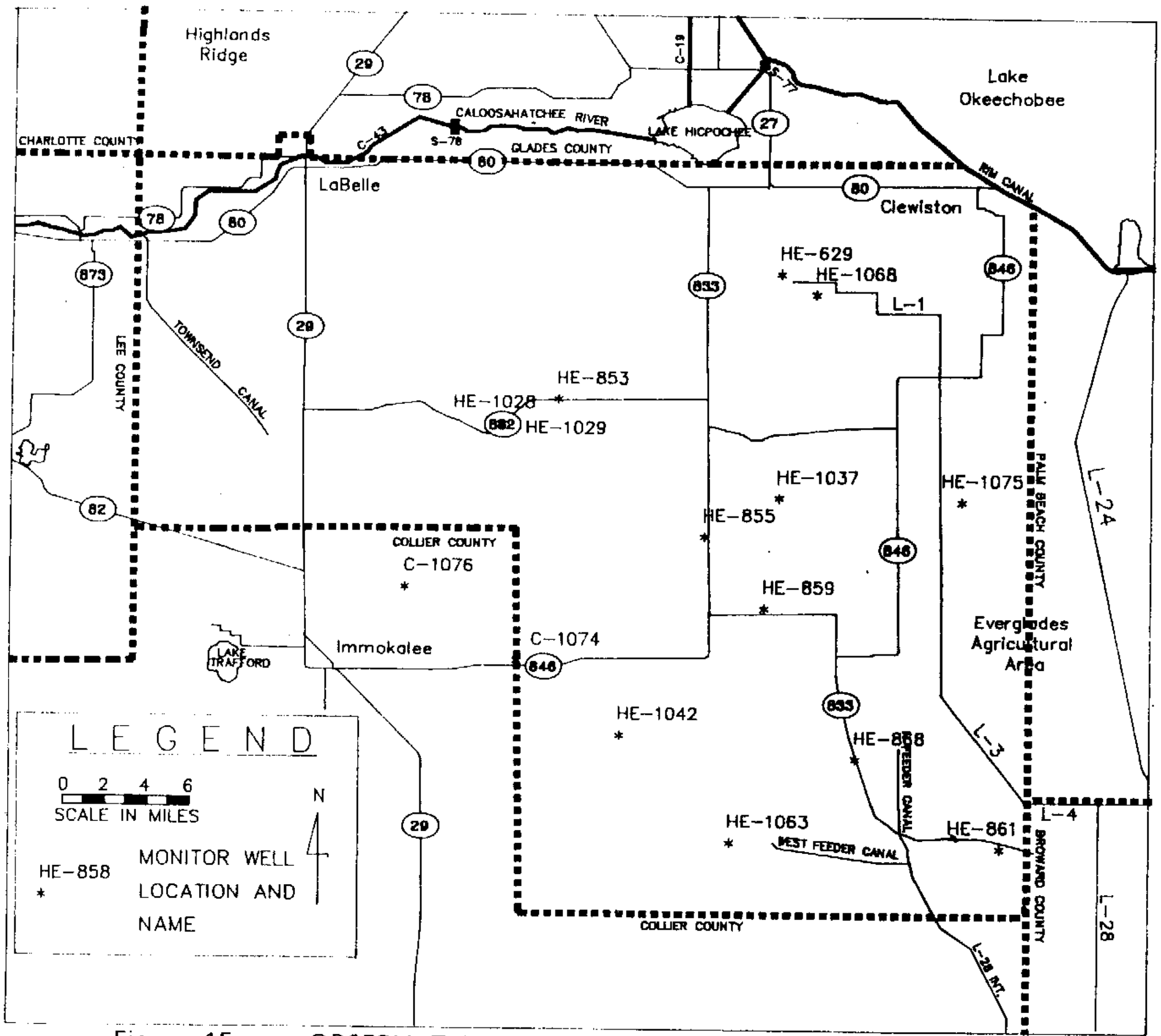

Figure 15. OBSERVATION WELLS, LAYER 2 (LOWER TAMIAMI AQUIFER)

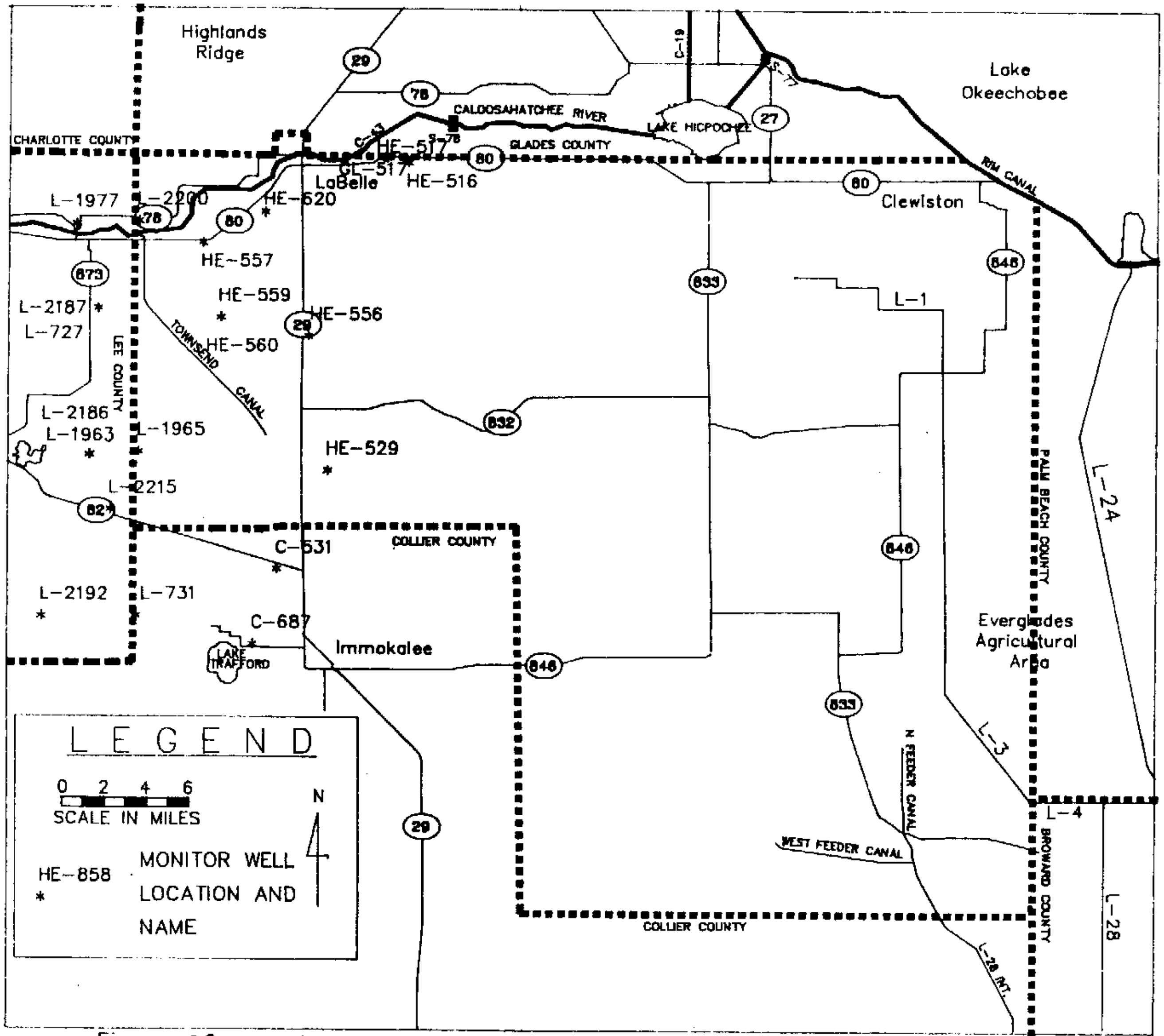

Figure 16. **OBSERVATION WELLS, LAYER 3 (SANDSTONE AQUIFER)**

included in the model. Errors can occur if an observation well is located near a canal that is not represented in the model, and water levels in the canal are maintained at a higher or lower levels than the adjacent ground water levels. It is not clear how this situation affects the overall calibration of the model. An in depth study to determine the effects of this situation is beyond the scope of this project. Investigation and analysis of ground water - surface water interactions in Hendry County is recommended.

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 1 (Water Table Aquifer)

No changes were made to the hydraulic conductivity or specific yield values during the calibration process. Vertical conductance (Vcont) between layer 1 and layer 2 was varied in order to change the head distributions in both layers. The final distribution of Vcont ranged from 0.0006 day^{-1} to 0.059 day^{-1}, which falls within the range of values obtained from aquifer test data. Final values of Vcont were multiplied by the thickness of the confining zone to ensure that the corresponding values of vertical hydraulic conductivity remained reasonable. The final Vcont array used in the calibration of the model is presented in Appendix A.

Figure 17 illustrates the agreement between simulated heads in layer 1 and observed water levels in observation wells in the water table aquifer. Of the 36 observation wells in this layer, 19 did not fall within the specified tolerance range (+/- 2 feet). Of these, nine were only slightly outside the range (errors less than 10 per cent of the total range of tolerance), which was considered to be an insignificant error. Of the remaining ten wells that did not fall within the tolerance range, five wells are influenced by surface water bodies (HE-339, HE-857, HE-858, HE-862, and C-1071), three wells are influenced by intense well withdrawals (C-462, C-532, and C-1078), and one well is influenced by its proximity to specified head cells on two sides (C-986). The remaining well that did not fall within the specified tolerance range (HE-856) has an average difference between observed and simulated water levels of 3.1 feet.

Layer 2 (Lower Tamiami Aquifer)

No changes were made to the transmissivity or storage values during the calibration process. The vertical conductance between layer 2 and layer 3 was altered to change the head distribution in both layers. Changes were made in the same way as they were when the Vcont values between layers 1 and 2 were changed. Final values of Vcont ranged from 0.0000044 day^{-1} to 0.0016 day^{-1}, which are within the range of reported values obtained from aquifer tests. The final Vcont array used in the calibration of the model is presented in Appendix A.

Agreement between simulated heads in layer 2 and observed water levels in monitor wells in the lower Tamiami aquifer are shown in Figure 18. Of the 14 observation wells in this aquifer, two wells did not fall within the specified tolerance range (+/- 3 feet). Well HE-1075 is located in the Everglades Agricultural Area, and is influenced by canals not simulated in the model. Well HE-861 is surrounded by fields that, based on inspection of aerial photographs, appear to have a surface water management system. These fields probably undergo both flood irrigation from surface water sources, and drainage. It is possible that the water management

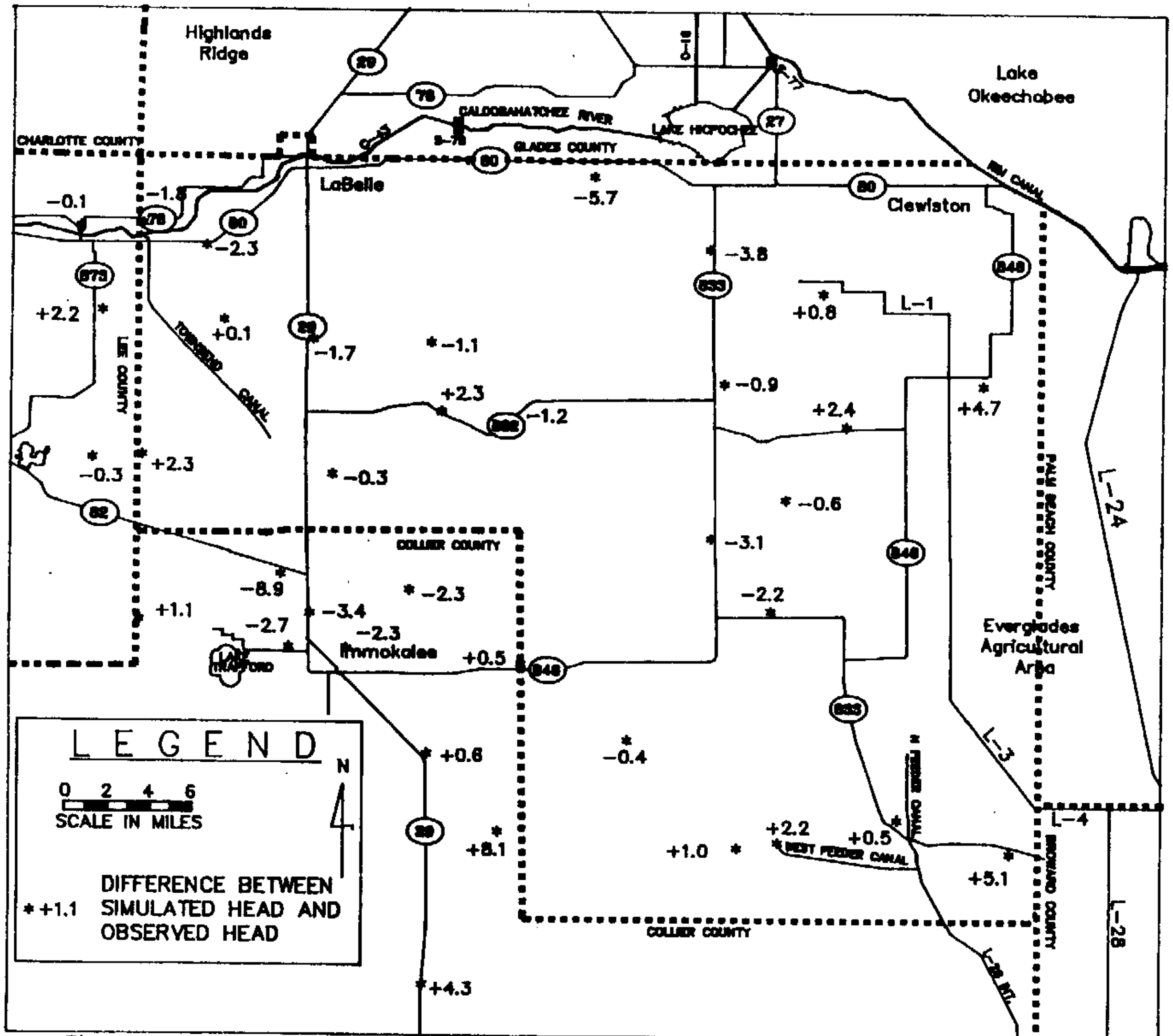

Figure 17. AVERAGE DIFFERENCE BETWEEN OBSERVED AND SIMULATED WATER LEVELS, LAYER 1 (WATER TABLE AQUIFER)

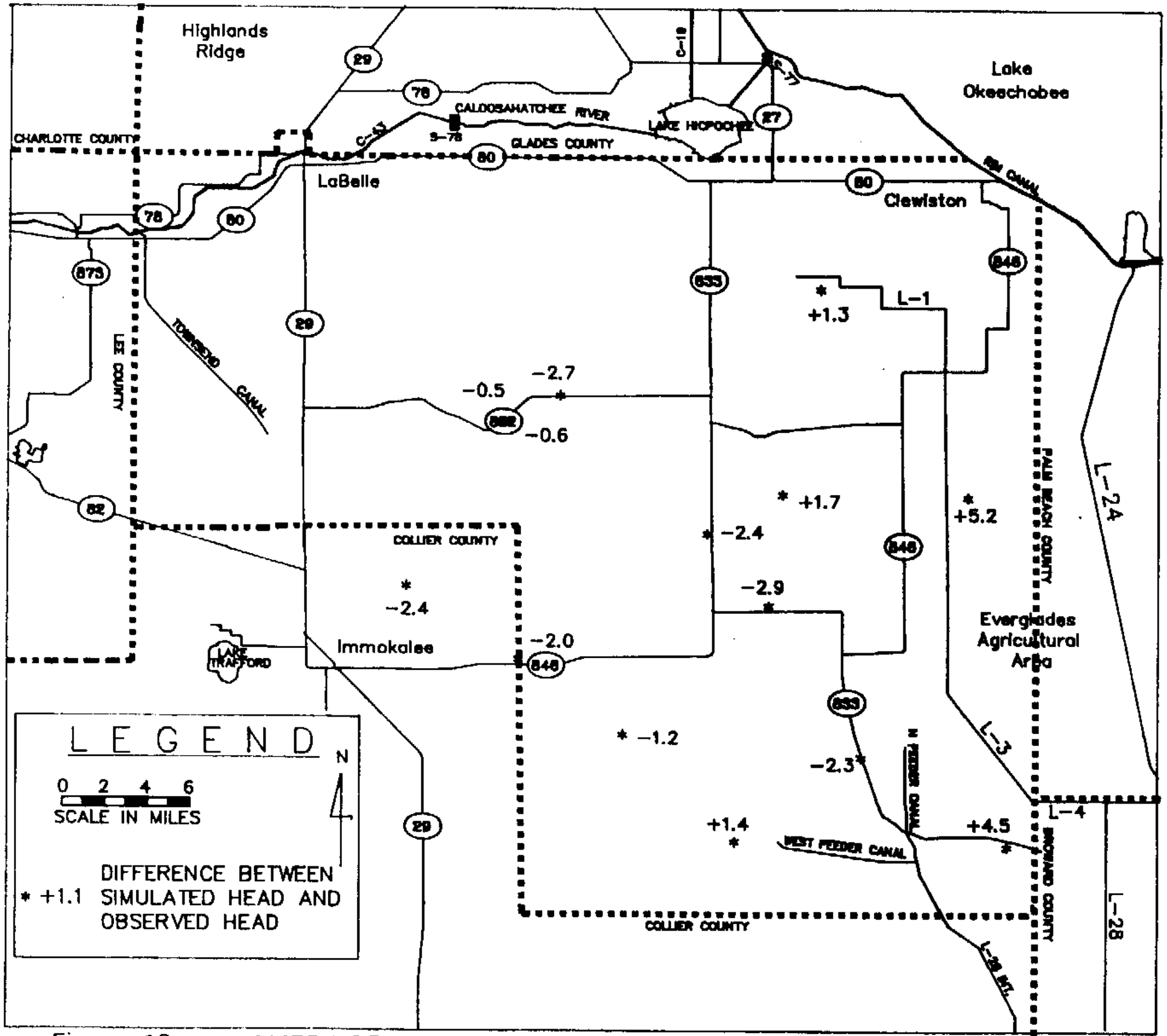

Figure 18. AVERAGE DIFFERENCE BETWEEN OBSERVED AND SIMULATED WATER LEVELS, LAYER 2 (LOWER TAMIAMI AQUIFER)

practices around both of these wells effect the ground water levels, which in turn may influence the rate at which leakage through the Tamiami confining zone takes place. Since surface water management systems were not simulated in the model, this may be a potential source of error.

Layer 3 (Sandstone Aquifer)

No changes were made to the transmissivity or storage values during the calibration process. Changes in the head distribution in this layer during calibration were caused by altering the Vcont array between layers 2 and 3.

Agreement between simulated heads in layer 3 and observed water levels in observation wells in the sandstone aquifer are shown in Figure 19. Of the 20 observation wells in this aquifer, two wells did not fall into the specified tolerance range (+/- 4 feet). Well L-2186 has only nine observed water levels randomly scattered throughout the calibration period; therefore, the observed data was determined to be unreliable. Well L-731 exhibits an extremely wide range of water level fluctuation (approaching 29 feet), and its water levels are significantly lower than several nearby wells. In addition, it is located in an area of intense withdrawals, therefore it was assumed that this well is subject to cell-wide averaging.

RESULTS

Transient Calibration

Layer 1 (Water Table Aquifer). Figures 20 and 21 show the simulated head distributions in April 1988 (end of wet season) and October 1988 (end of dry season) in layer 1 (water table aquifer). Generally, the highest water levels occur north of Immokalee, and water flows radially away from this area. The lowest levels occur along the Caloosahatchee River where the ground water discharges into the river, and in the Everglades Agricultural Area in eastern Hendry County. It can seen that there is little seasonal head fluctuation. Most of this seasonal fluctuation takes place near concentrated withdrawals. The simulated head distributions are consistent with the water levels found in Smith and Adams (1988).

Layer 2 (Lower Tamiami Aquifer). Figures 22 and 23 show simulated head distributions in layer 2 (lower Tamiami aquifer) in April and October 1988. Comparison to figures 20 and 21 show the general head distributions, and therefore the regional flow patterns, to be similar to the water table aquifer. However, heads in the lower Tamiami aquifer are slightly lower than those in the water table aquifer, and seasonal fluctuations are more apparent. Larger, more intensive water uses are seen as large cones of depression on these maps. A regional cone of depression caused by concentrated withdrawals for agricultural irrigation occurs in southeastern Hendry County.

Layer 3 (Sandstone Aquifer). Figures 24 and 25 show the head distributions in the sandstone aquifer in April and October 1988. Due to its low values of hydraulic conductivity and thin occurrence, the effect of pumpage from the sandstone aquifer produces deep cones of depression of limited areal extent. Seasonal fluctuations are also more apparent, particularly near the withdrawals.

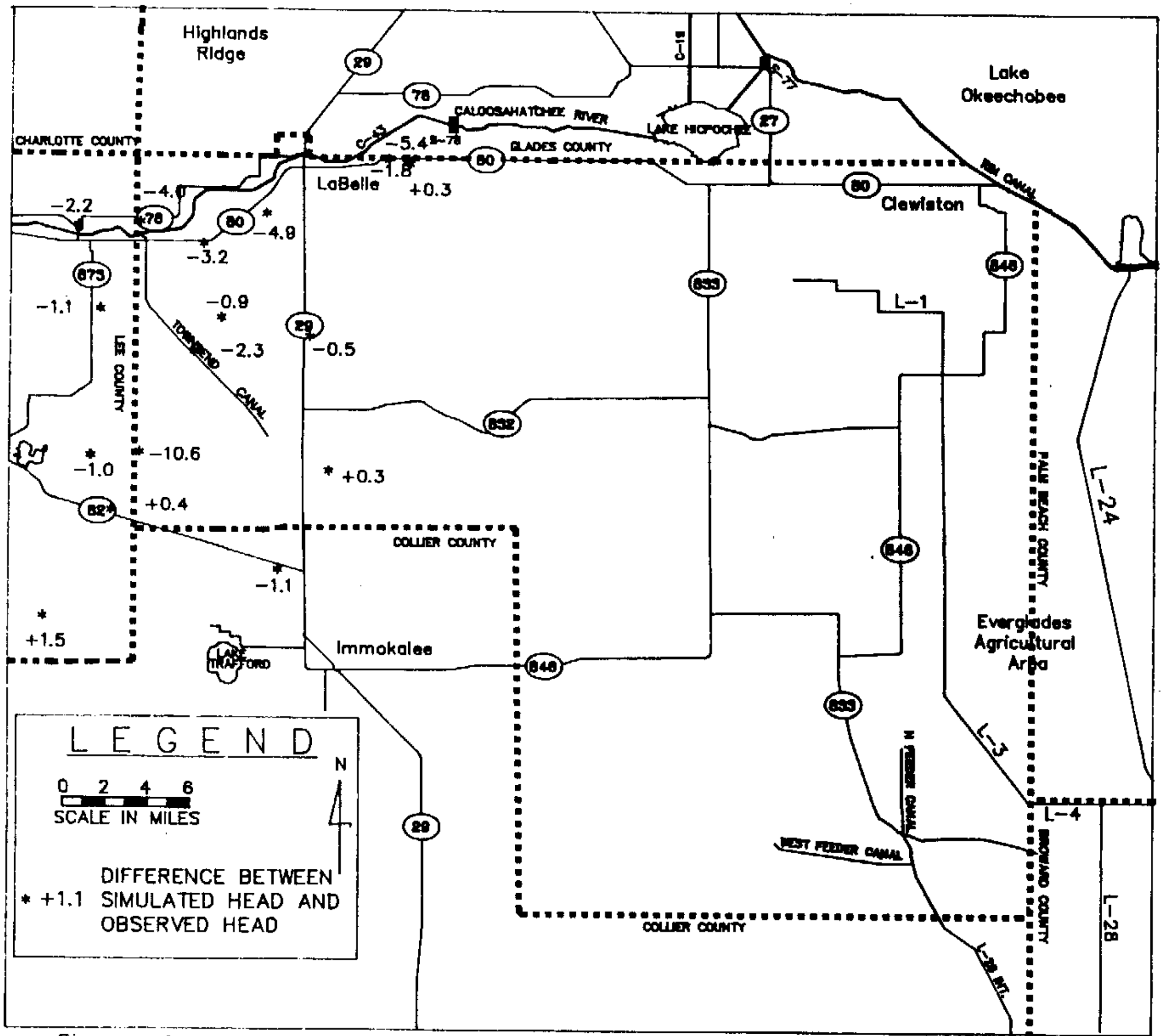

Figure 19. AVERAGE DIFFERENCE BETWEEN OBSERVED AND SIMULATED WATER LEVELS, LAYER 3 (SANDSTONE AQUIFER)

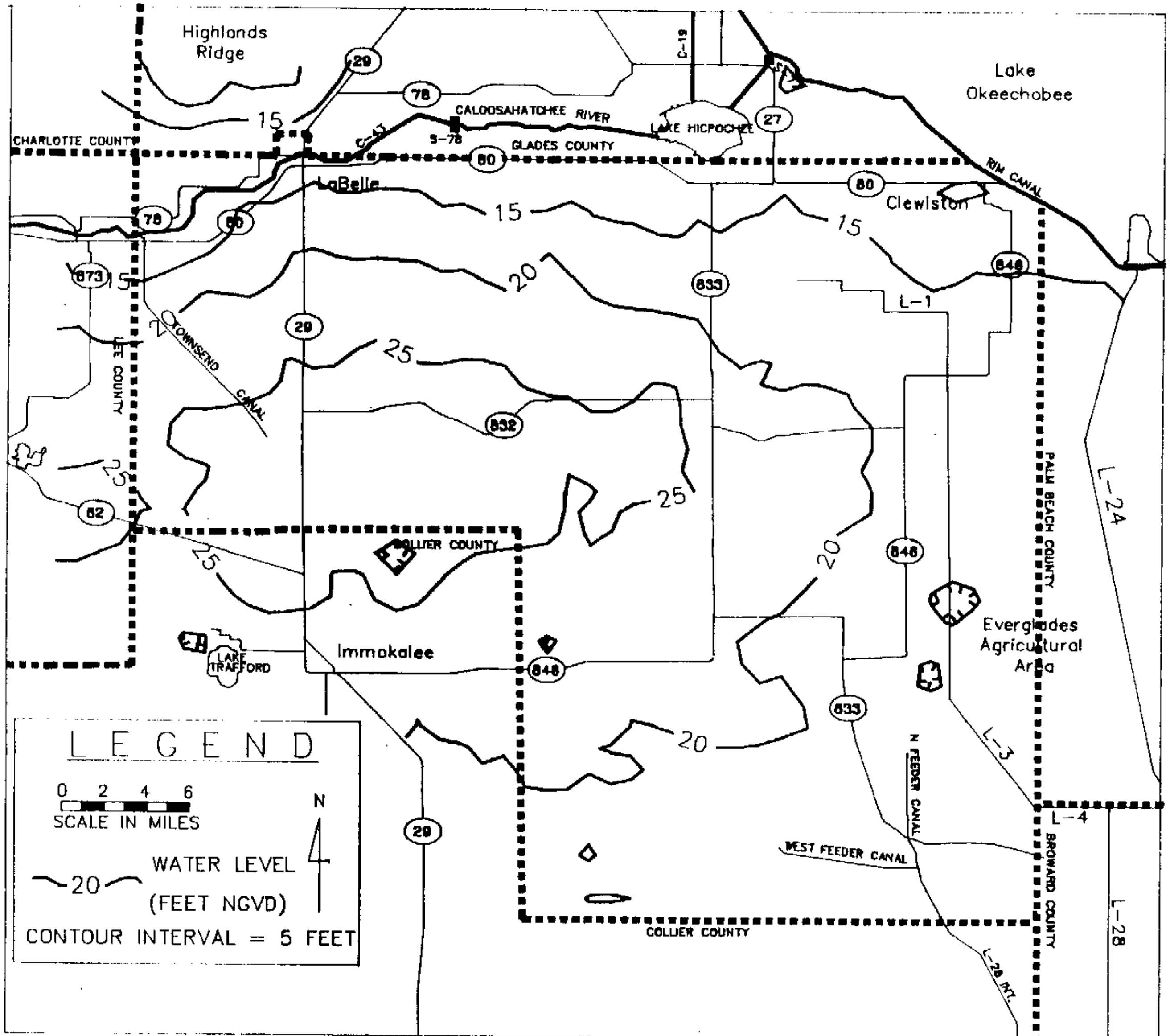

Figure 20. SIMULATED WATER LEVELS, LAYER 1 (WATER TABLE AQUIFER), APRIL 1988

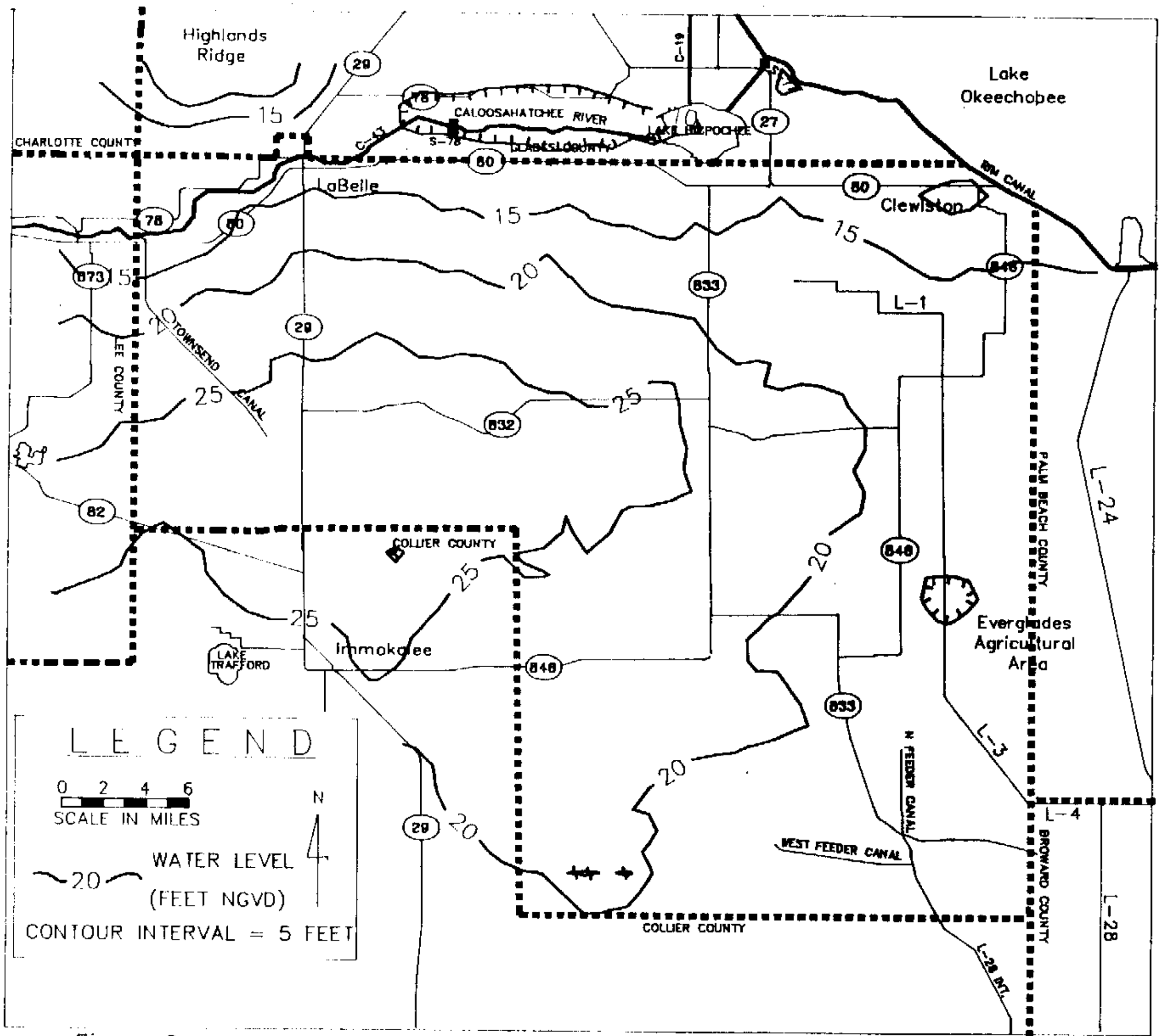

Figure 21. SIMULATED WATER LEVELS, LAYER 1 (WATER TABLE AQUIFER), OCTOBER 1988

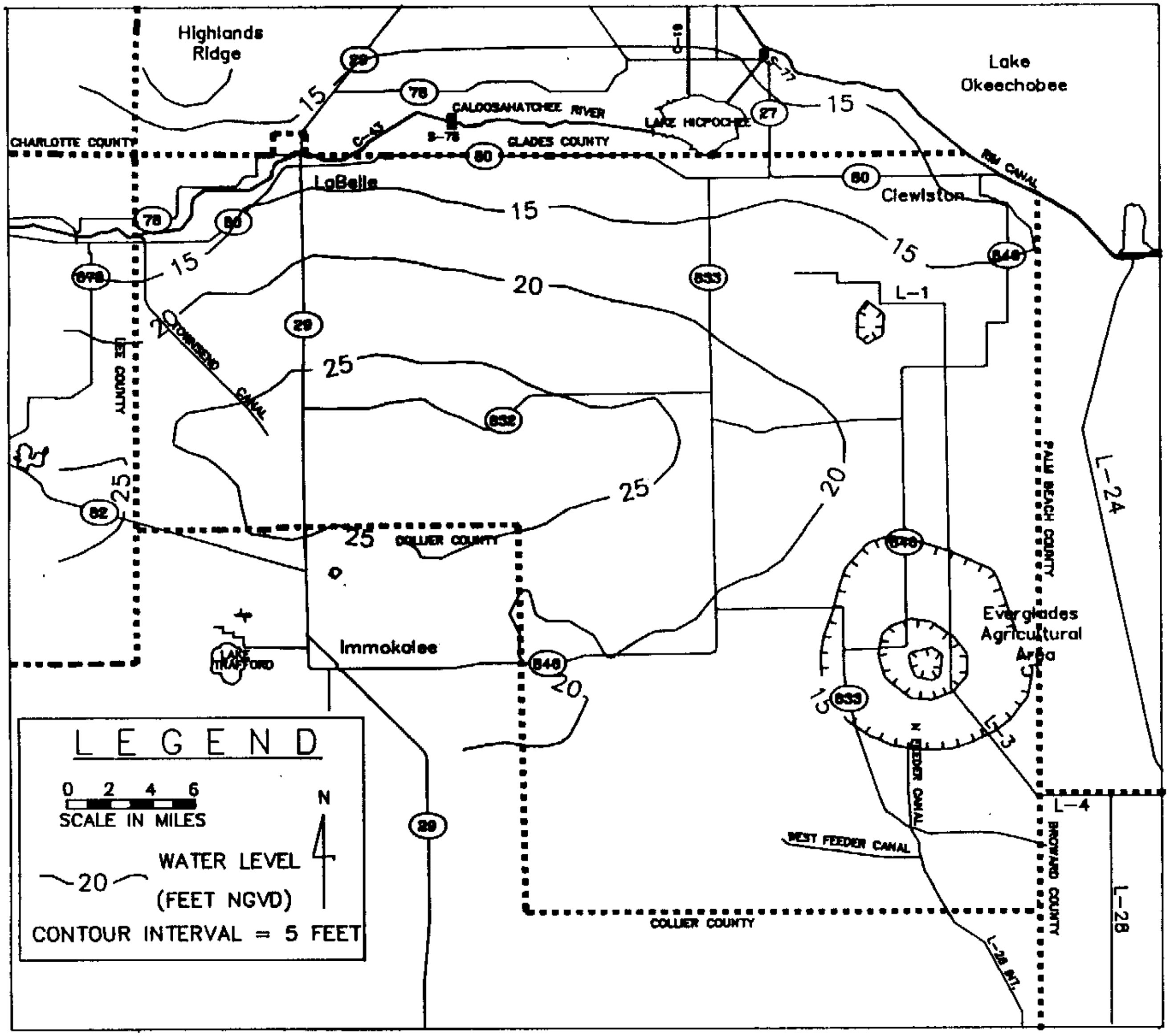

Figure 22. SIMULATED WATER LEVELS, LAYER 2 (LOWER TAMIAMI AQUIFER), APRIL 1988

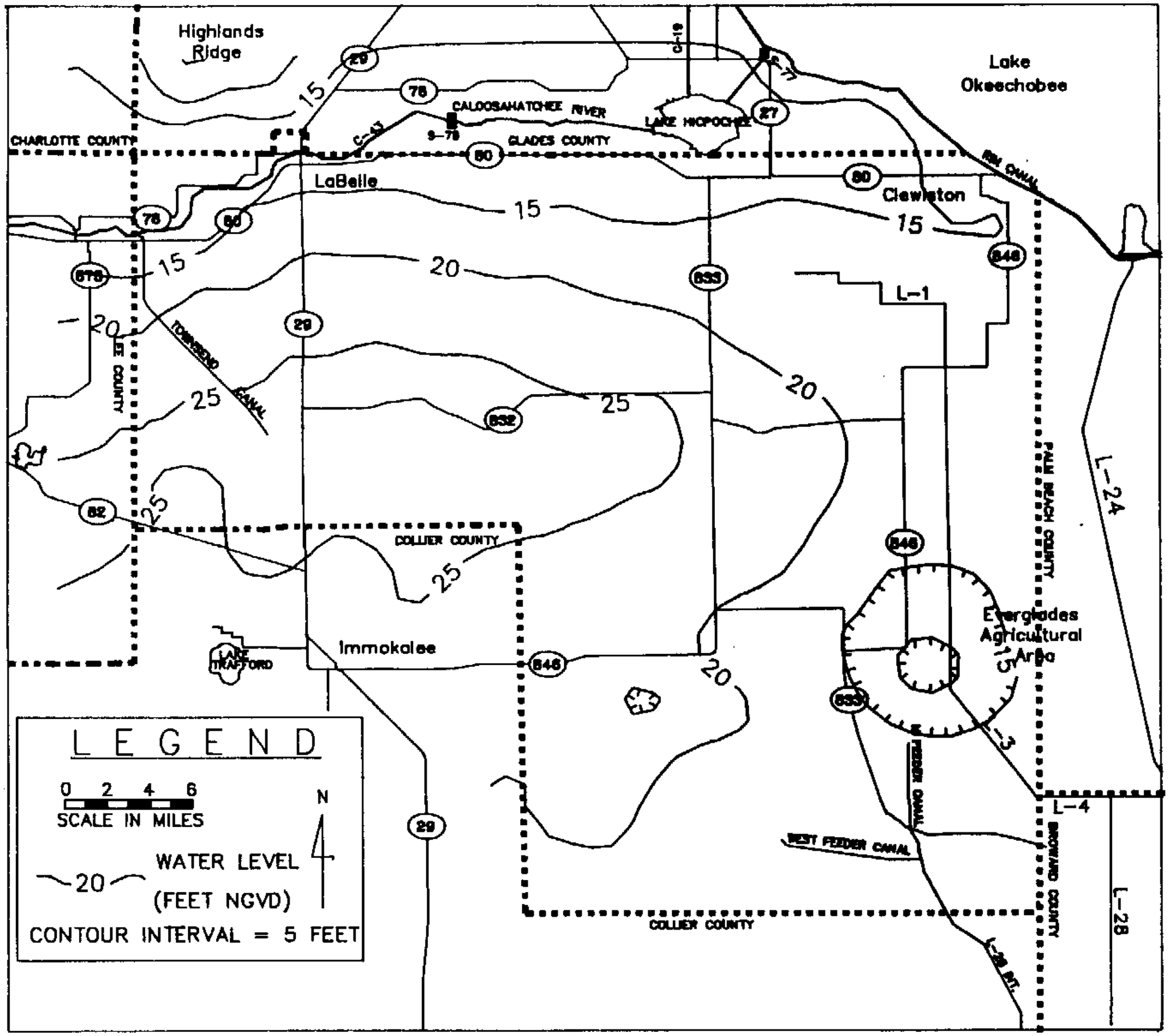

Figure 23. SIMULATED WATER LEVELS, LAYER 2 (LOWER TAMIAMI AQUIFER), OCTOBER 1988

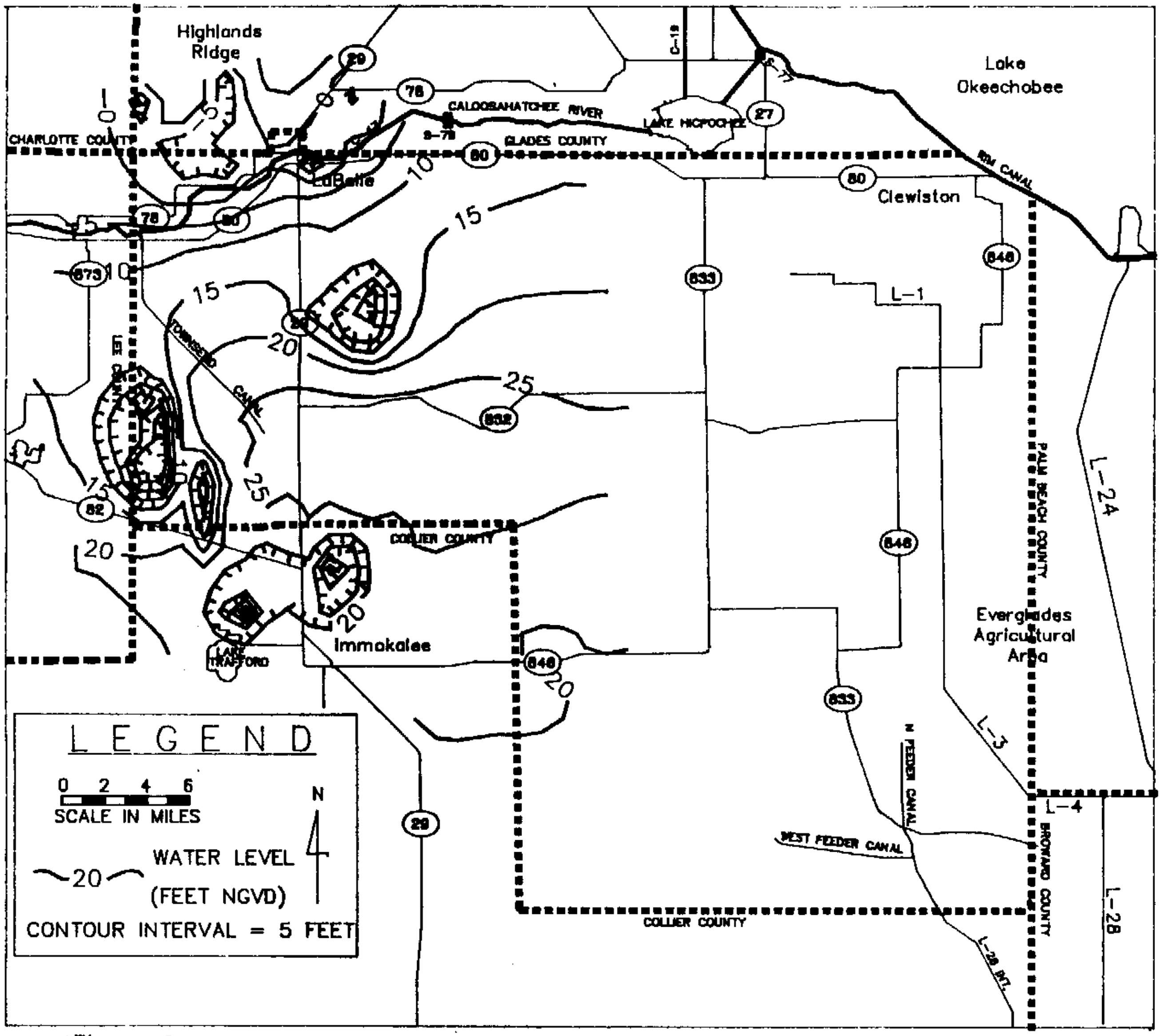

Figure 24. SIMULATED WATER LEVELS, LAYER 3 (SANDSTONE AQUIFER), APRIL 1988

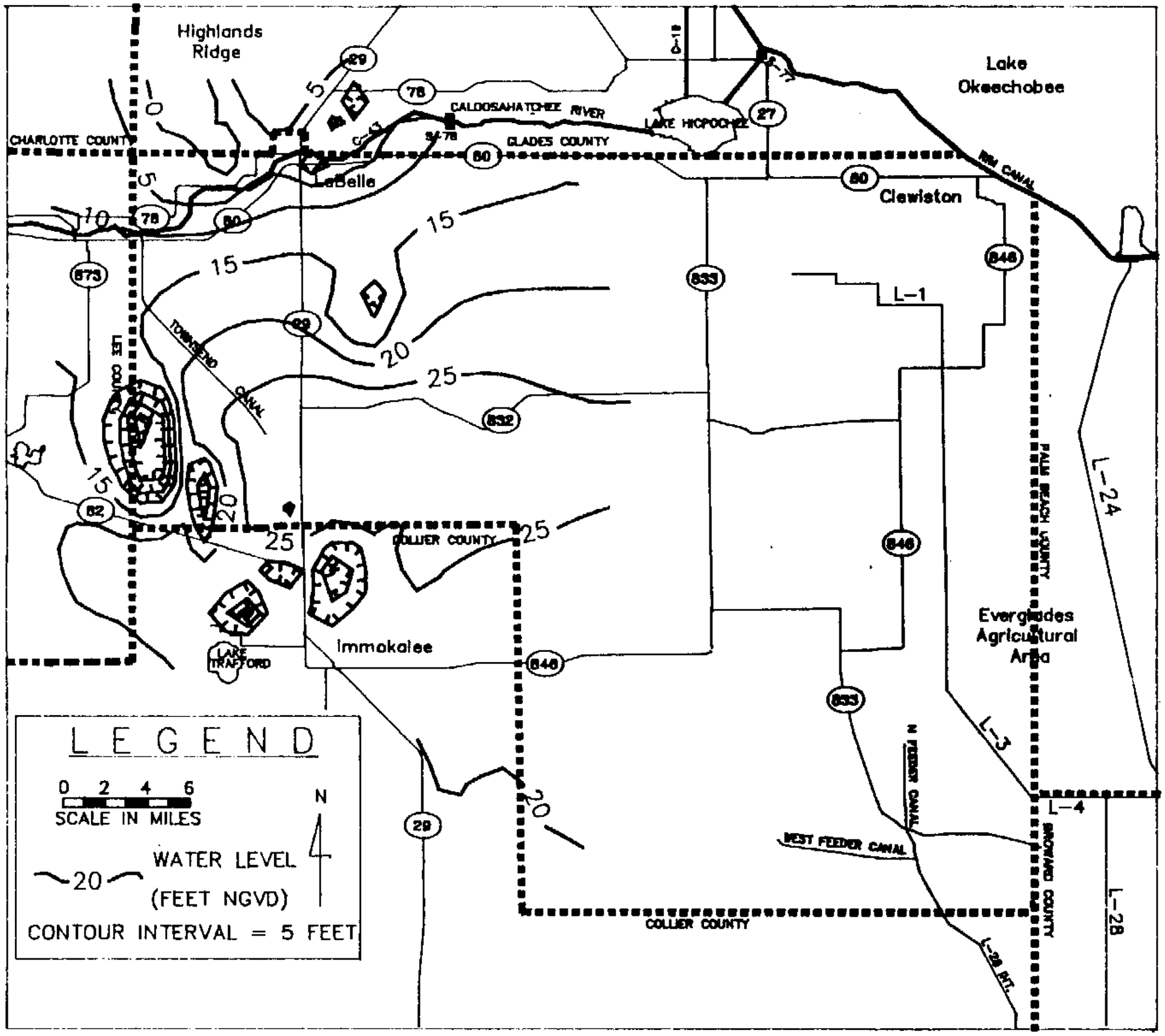

Figure 25. SIMULATED WATER LEVELS, LAYER 3 (SANDSTONE AQUIFER), OCTOBER 1988

Steady State

As previously stated, a final steady state run was completed using the aquifer parameter data used in the final transient calibration. Recharge, well withdrawals, evapotranspiration, and surface water stage levels were averaged over the three year calibration period. Data from this steady state run was used to provide information to describe the ground water flow regimes in Hendry County and to act as the base case for most of the sensitivity analyses and predictive scenarios.

Layer 1 (Water Table Aquifer). Figure 26 shows the direction and magnitude of simulated horizontal flow in the water table aquifer. Each arrow represents the flow from an individual cell. The majority of the larger flow vectors are associated with intensive ground water use or interactions with surface water bodies.

An analysis of the volumetric budget for layer 1 (water table aquifer) is shown in Figure 27. The majority of flow into this layer (96.2%) is derived from recharge (rainfall), 3.7% is upward leakage from layer 2, and 0.1% is from the specified head cells. Of the total flow out of layer 1, 87.1% is evapotranspiration, 7.0% is leakage to layer 2 (lower Tamiami aquifer), 1.5% is well pumpage, 0.7% is river leakage, and the remaining 3.7% is flow the specified head cells, representing flow out of the modeled area, mainly to Lee and Collier Counties.

Layer 2 (Lower Tamiami Aquifer). Figure 28 shows the magnitude and direction of simulated horizontal flow in layer 2. The regional cone of depression in southeastern Hendry County is quite apparent as it influences regional flow patterns at distances up to 11 miles. This area can also be seen in Figure 29, which is a representation of the simulated vertical flow between the lower Tamiami aquifer from the overlying water table aquifer. The cone of depression in the lower Tamiami aquifer caused by the heavy pumpage in southeastern Hendry County induces a greater amount of leakage into the aquifer. Areas of high leakage in the western portion of the study area are also a result of withdrawals from the lower Tamiami aquifer, or are caused by withdrawals from the underlying sandstone aquifer.

Figure 30 illustrates the volumetric budget for layer 2 (lower Tamiami aquifer). Approximately 68.2% of the total inflow to this layer is recharge from the water table aquifer, 31.5% is from the specified head cells, and 0.3% is from upward leakage from the sandstone aquifer. The flow from the specified head cells represents flow into the modeled area from Glades County, and from Collier County south of Immokalee. Of the total outflows, 35.8% is upward leakage to the water table aquifer, 31.8% is to wells, 19.8% is downward leakage to the sandstone aquifer, and 12.6% to is the specified head cells. The upward leakage occurs mainly in the areas of western Hendry County where the Tamiami confining zone exhibits high values of vertical hydraulic conductivity. In these areas, the two models layers tend to act as if simulating a single, unconfined aquifer. Therefore, water is exchanged freely between the two layers. Flow to the specified head cells represents horizontal flow out of the modeled area, mainly to Lee and Collier counties.

Layer 3 (Sandstone Aquifer) Figure 31 shows the magnitude and direction of simulated horizontal flow in the sandstone aquifer. It can be seen that the effect of large withdrawals generally extend over a distance of two to three miles, as opposed to the eleven mile distance seen in the lower Tamiami aquifer. Figure 32 illustrates the simulated leakage into the sandstone aquifer from the overlying aquifers. It is clear that most of the large values of leakage correspond to areas of heavy

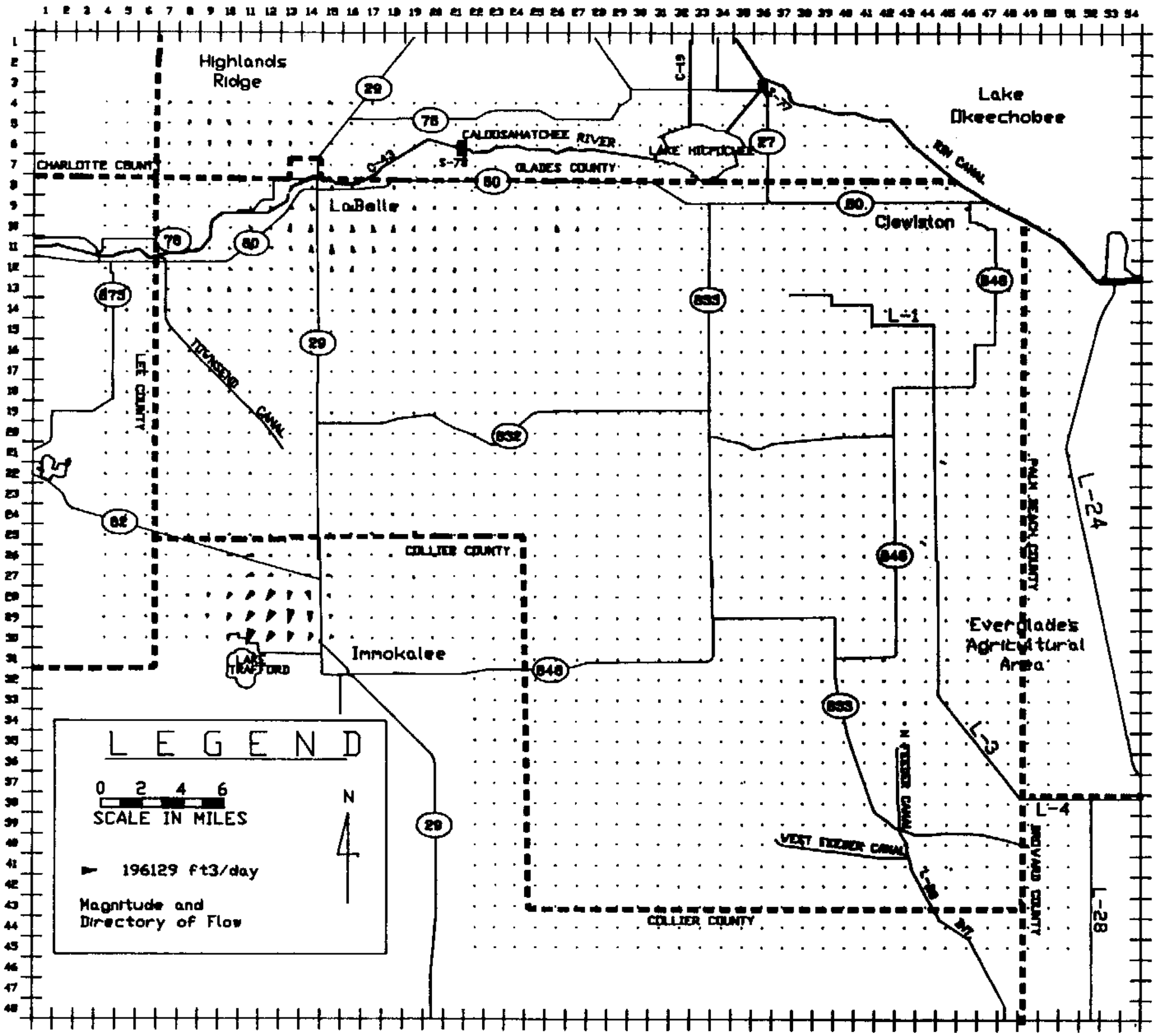

Figure 26. SIMULATED STEADY STATE HORIZONTAL FLOW VECTORS, LAYER 1 (WATER TABLE AQUIFER)

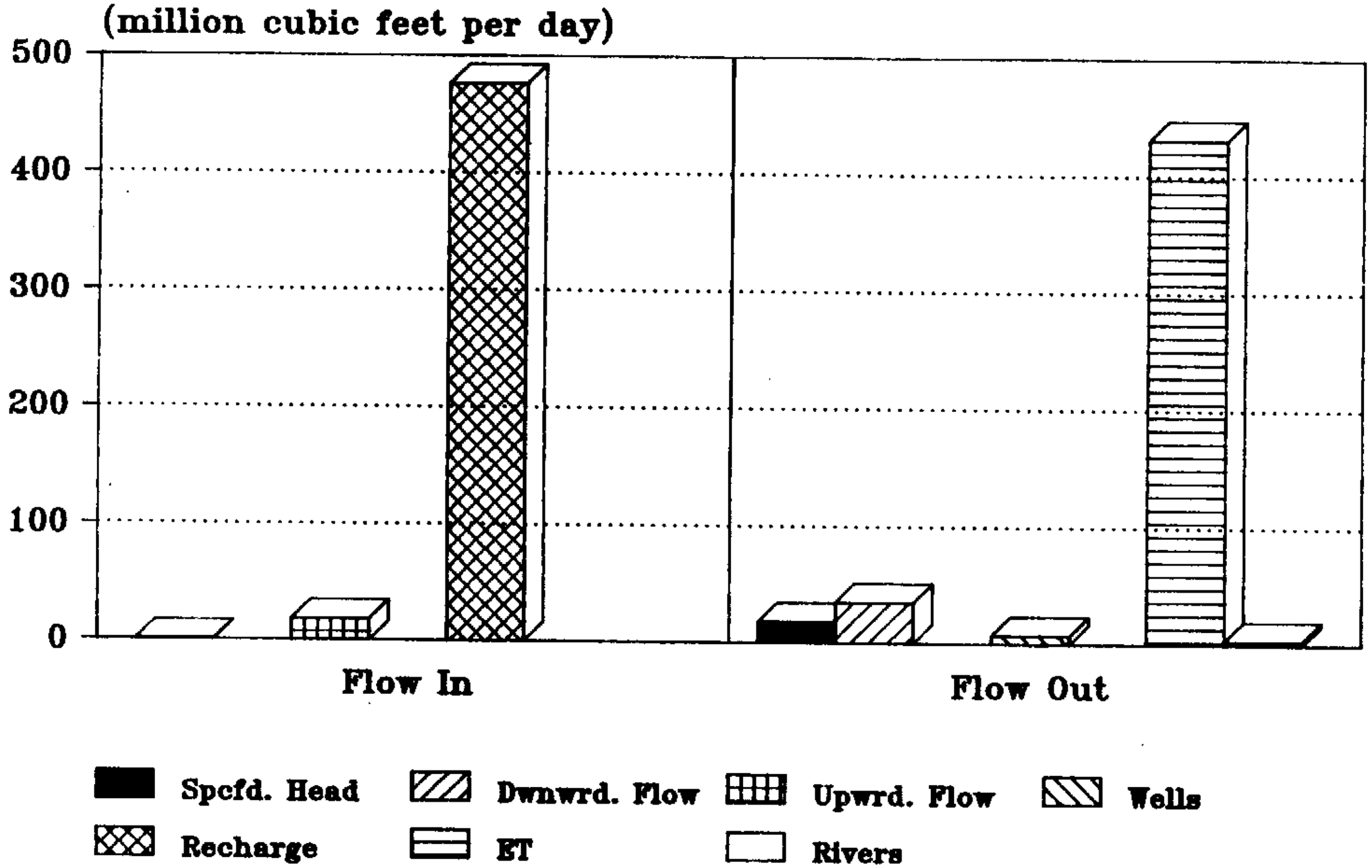

Figure 27. VOLUMETRIC BUDGET, LAYER 1 (WATER TABLE AQUIFER), STEADY STATE CONDITIONS

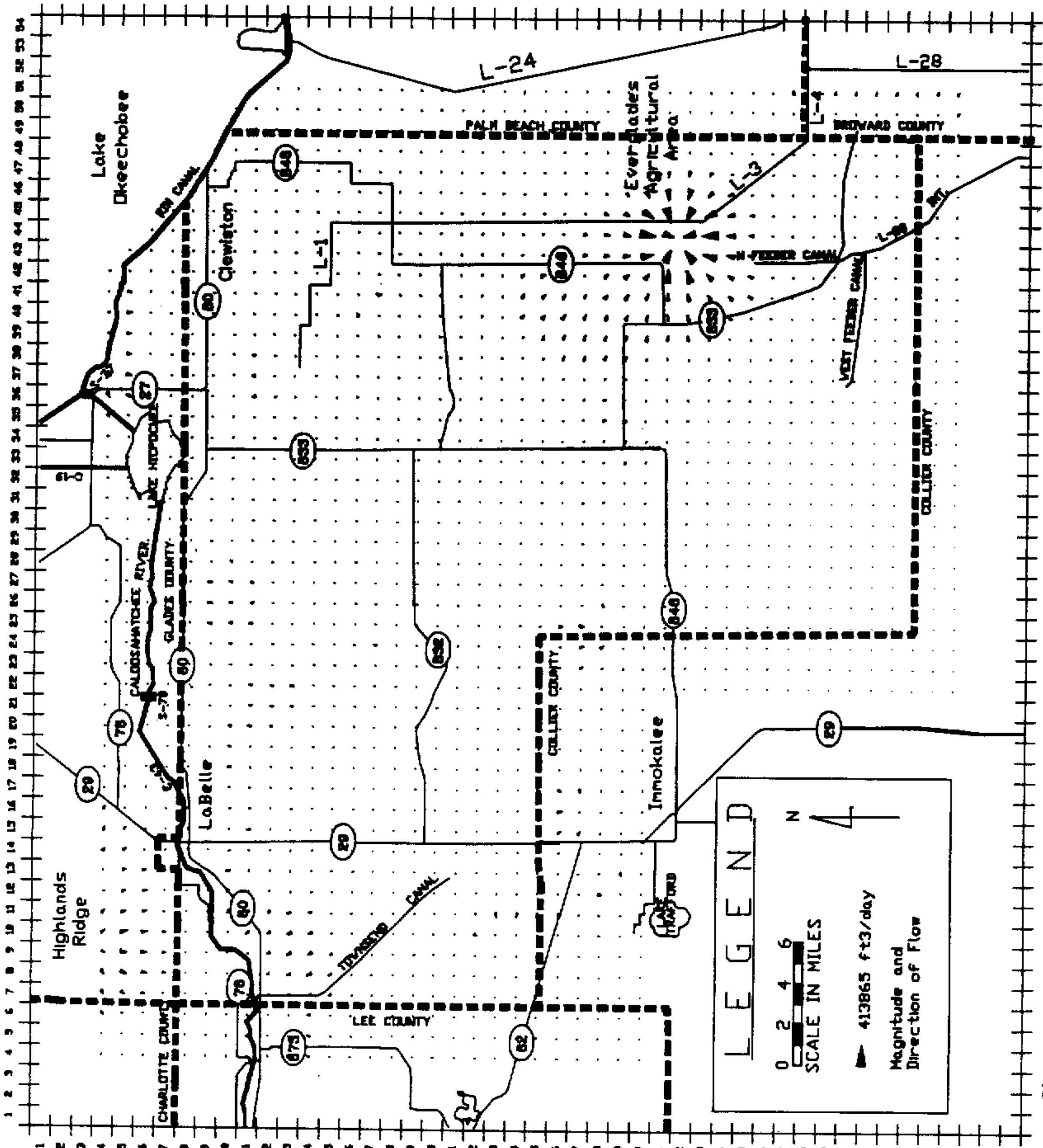

Figure 28. SIMULATED STEADY STATE HORIZONTAL FLOW VECTORS, LAYER 2 (LOWER TAMIAMI AQUIFER)

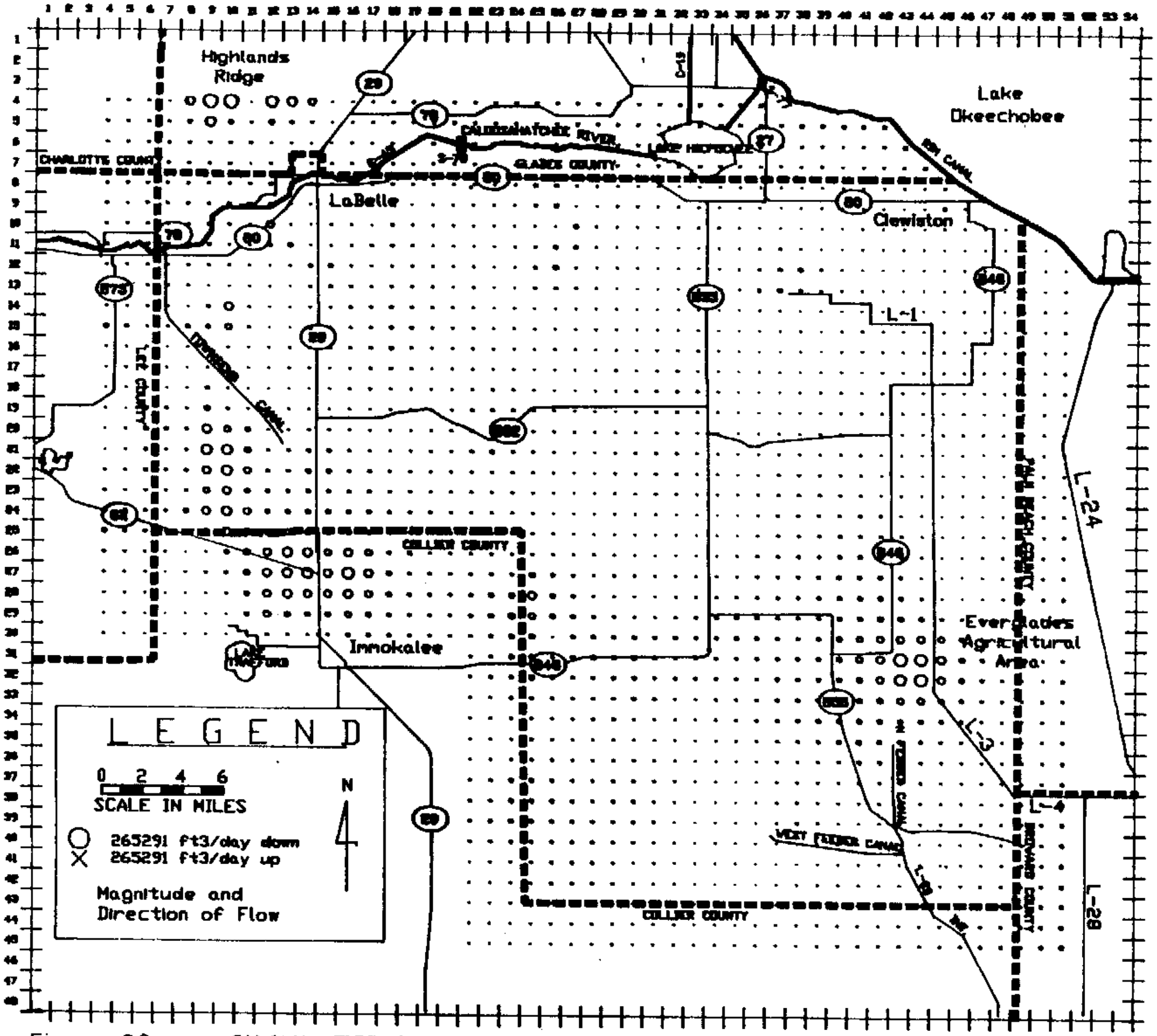

Figure 29. SIMULATED STEADY STATE VERTICAL FLOW BETWEEN LAYER 1 (WATER TABLE AQUIFER) AND LAYER 2 (LOWER TAMIAMI AQUIFER)

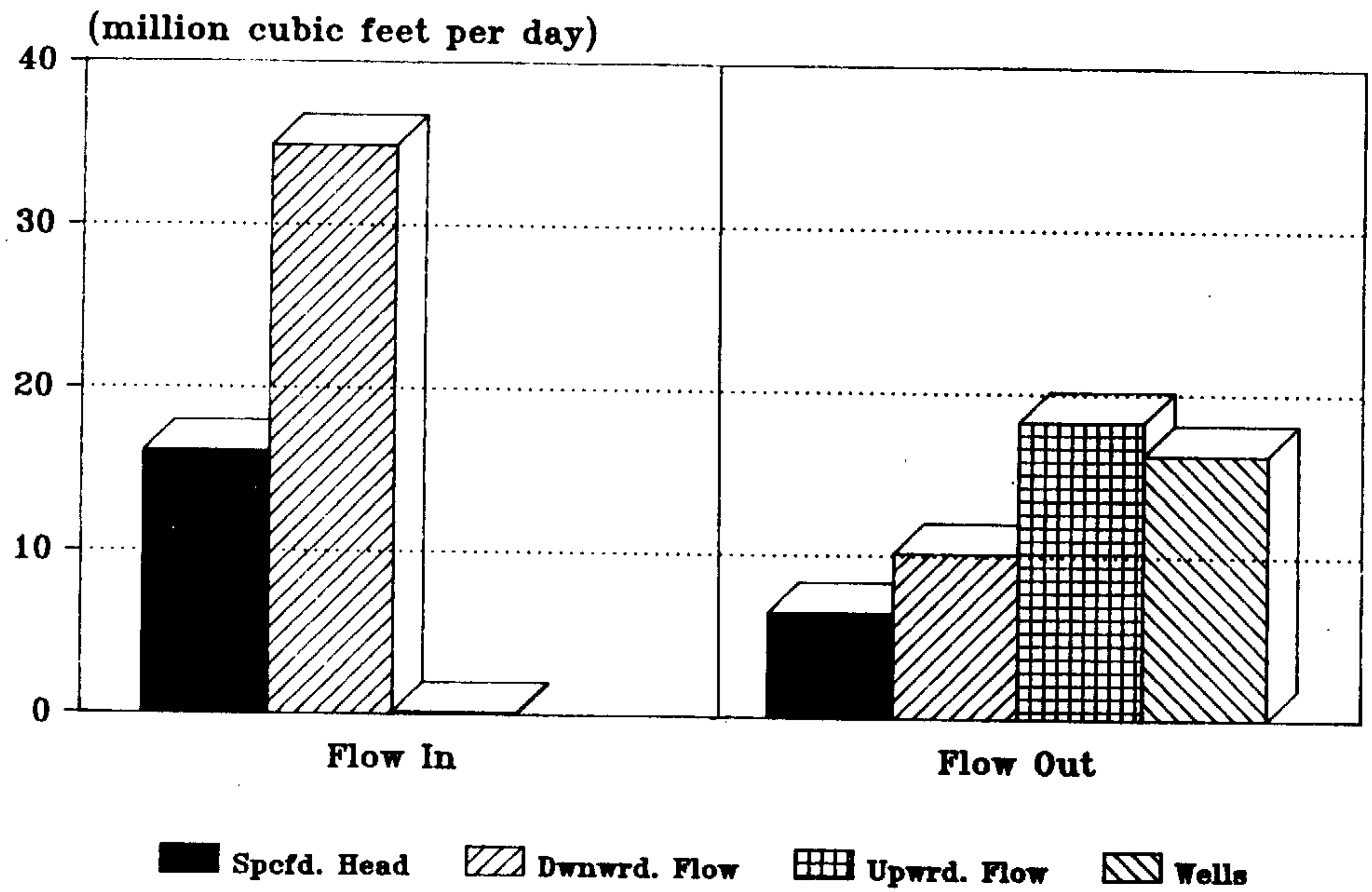

Figure 30. VOLUMETRIC BUDGET, LAYER 2 (LOWER TAMIAMI AQUIFER), STEADY STATE CONDITIONS

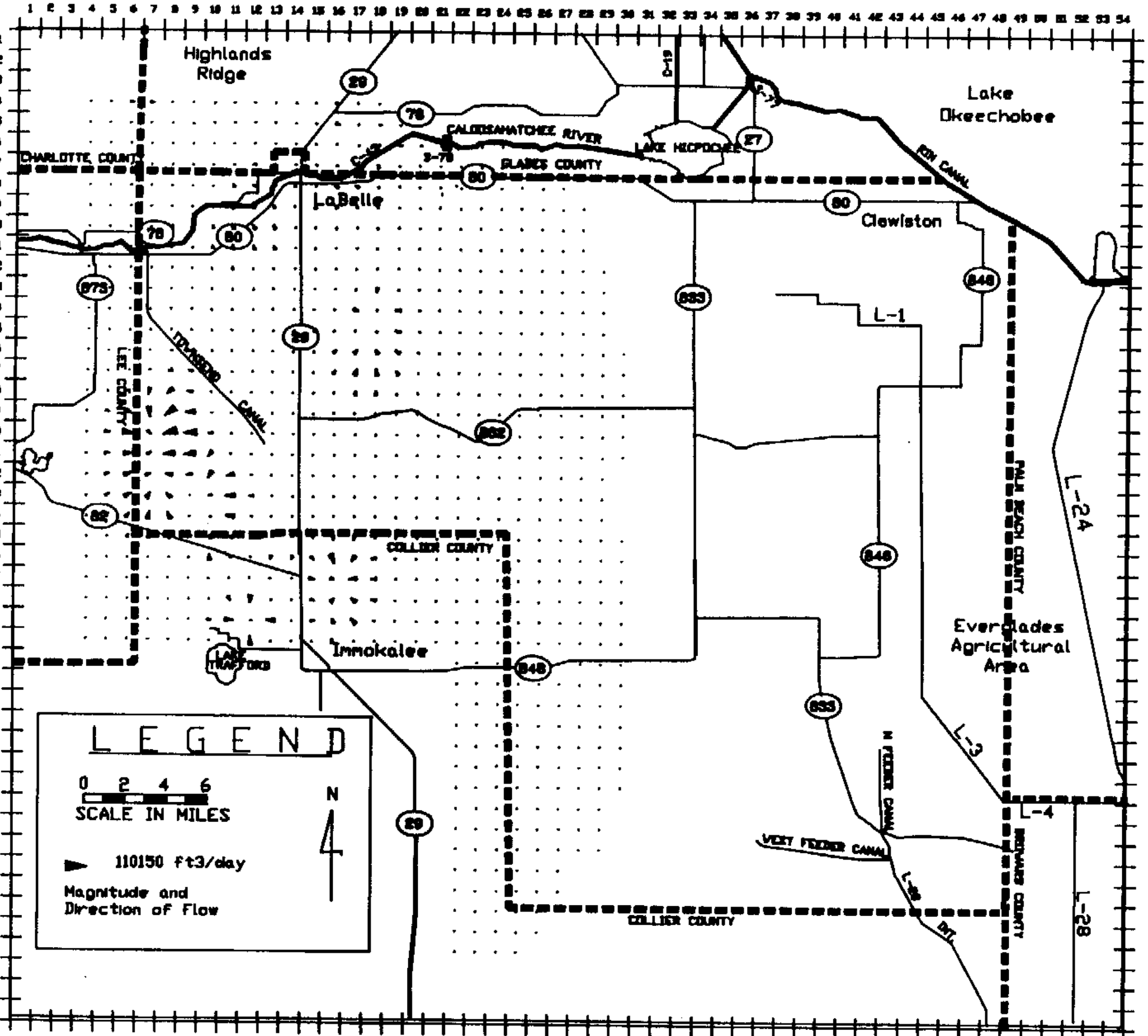

Figure 31. SIMULATED STEADY STATE HORIZONTAL FLOW VECTORS, LAYER 3 (SANDSTONE AQUIFER)

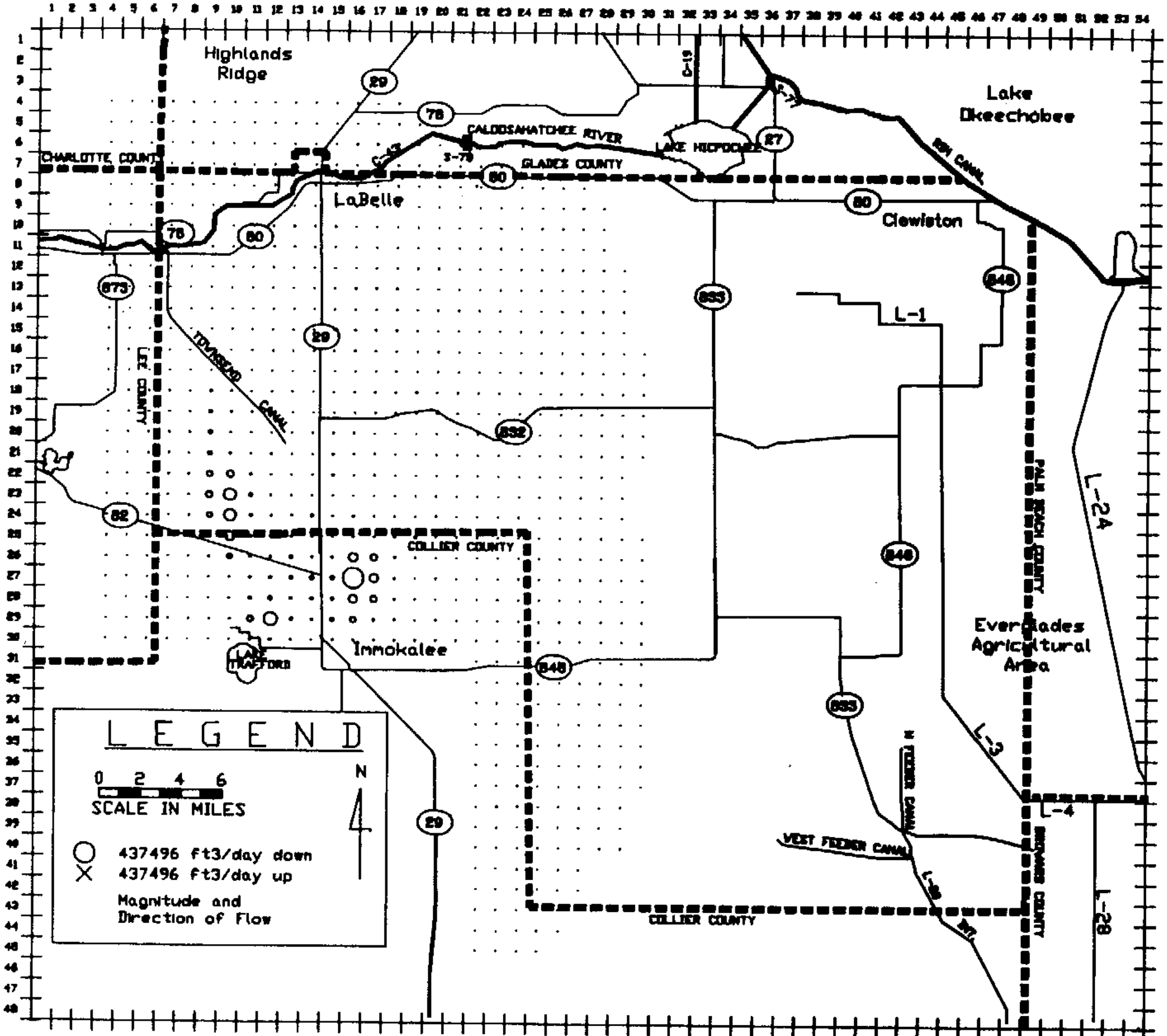

Figure 32. SIMULATED STEADY STATE VERTICAL FLOW BETWEEN LAYER 2 (LOWER TAMIAMI AQUIFER) AND LAYER 3 (SANDSTONE AQUIFER)

withdrawal from the sandstone aquifer. However, recharge to the sandstone aquifer from overlying layers occur throughout its extent.

The volumetric budget for layer 3 (sandstone aquifer) is illustrated in Figure 33. Almost all of the inflow to the sandstone aquifer (98.0%) is recharge from above. The remaining 2.0% comes from the specified head cells. Of the total outflow, 79.1% is to wells, 19.7% is to specified head cells, and 1.2% is upward leakage to the lower Tamiami aquifer. The outflow to the specified head cells represents horizontal flow out of the modeled area, mainly to Lee and Collier counties.

Figure 34 is a combined volumetric budget for all of the modeled area. Total inflow consists of 96.6% recharge (rainfall), and 3.4% flow from specified head boundaries (flow from outside the modeled area). Total outflow consists of 87.5% evapotranspiration, 6.4% to wells, 5.4% to specified head boundaries (flow out of the modeled area), and 0.7% discharge to surface water bodies.

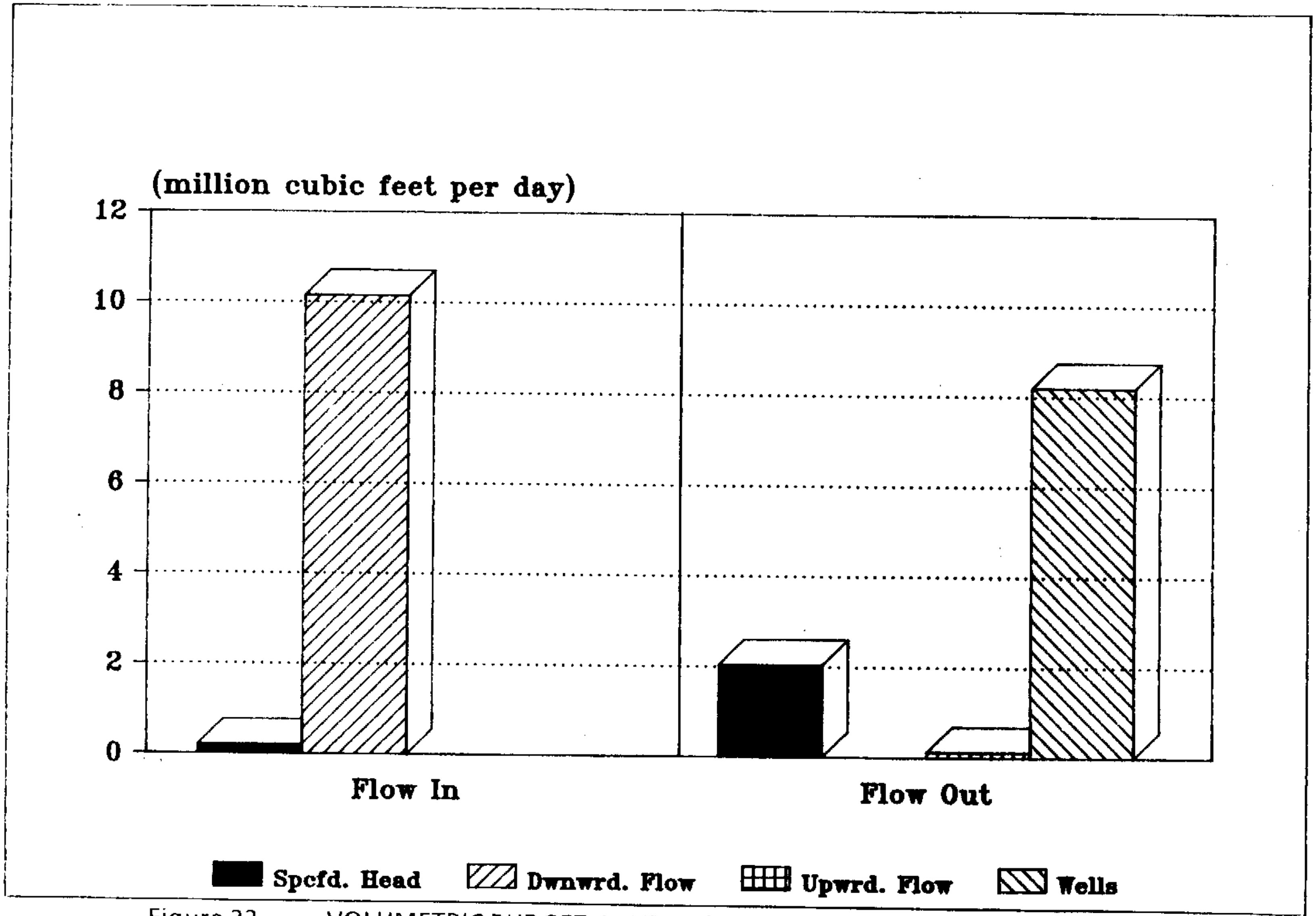

Figure 33. VOLUMETRIC BUDGET, LAYER 3 (SANDSTONE AQUIFER), STEADY STATE CONDITIONS

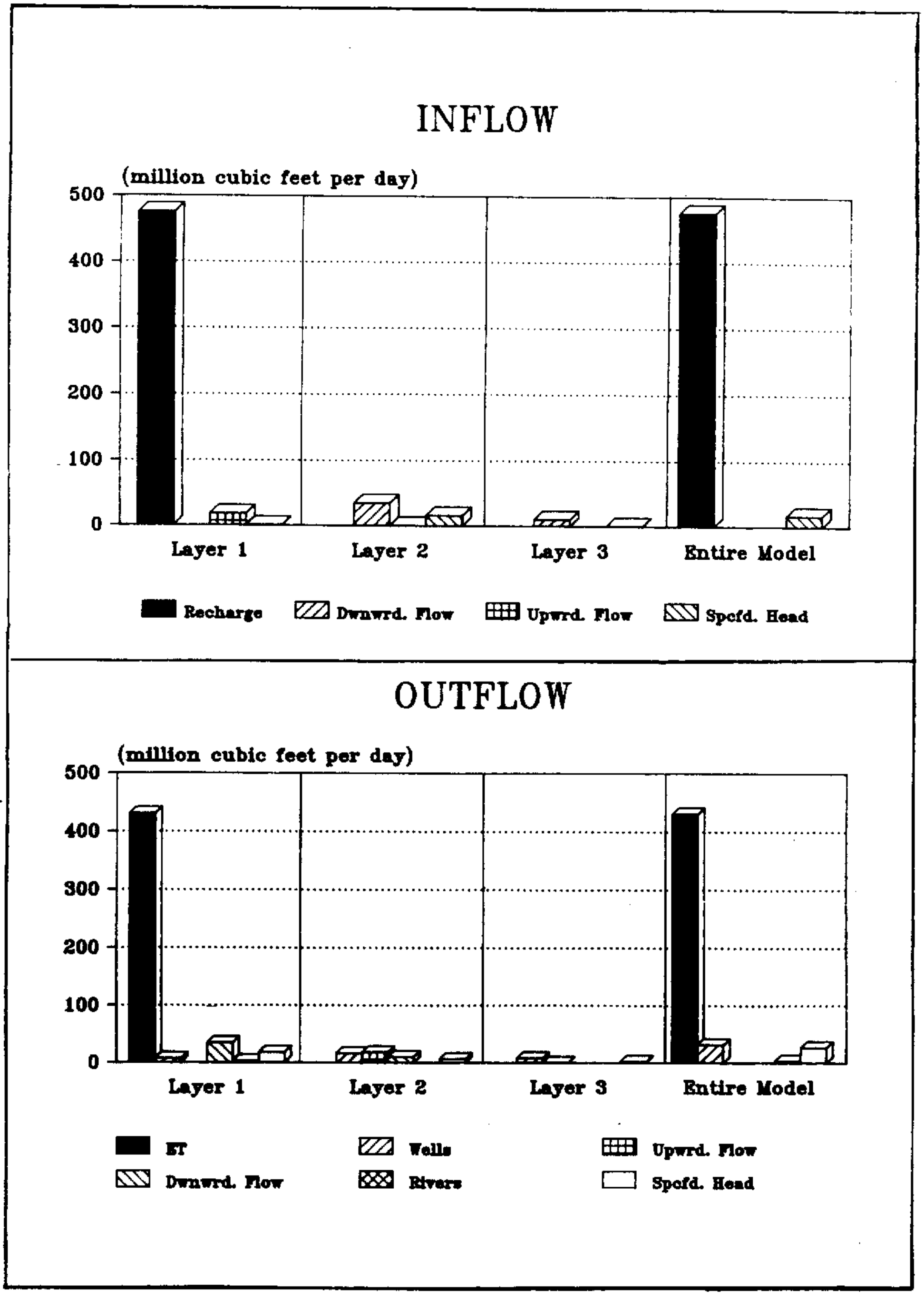

Figure 34. VOLUMETRIC BUDGET FOR ENTIRE MODEL, STEADY STATE CONDITIONS

SENSITIVITY TESTING

The model was tested to check its sensitivity to changes in the boundary conditions, aquifer parameters, and stresses. Boundary conditions were tested two ways: by moving the boundaries farther away from the center of the model, and by substituting specified flux boundaries for the specified head boundaries. The specified head cells were moved out from the center of the model a distance of approximately four miles by expanding the grid spacing of rows 1, 2, 3, 46, 48, and 48; and columns 1, 2, 3, 52, 53, and 54. The model was run using steady state conditions and this grid configuration, and the resulting heads at the Hendry County boundary were compared to the steady state calibration run. No significant differences in heads were found. Specified flux boundaries were simulated using the following procedure. First, all specified head cells were converted to active cells. Then, the flow was calculated between each of these cells and the cell immediately adjacent towards the center of the model, using the starting heads (December 1985) and the calibrated aquifer parameters. These fluxes were assigned to the proper cells and added to the well file. The model was run for steady state conditions, and both heads and volumetric budgets were compared. No significant difference in heads in Hendry County were found. Significant head differences resulting from the two types of boundary conditions are limited to a range of two cells from the location of the specified head boundary. Analysis of the volumetric budget showed that some overestimation of flow into the model resulted from the use of specified head boundaries, however the overall effects on the model are minimal. In the types of uses planned for this model, the specified head boundaries are not expected to be a problem. However, in those cases where it appears that a specified flux boundary will give a more conservative solution, it is recommended that specified flux boundaries be substituted.

Aquifer parameters were tested by altering the following parameters: Layer 1 conductivity and river bed conductance, Vcont between layers 1 and 2, layer 2 transmissivity, Vcont between layers 2 and 3, and layer 3 transmissivity. The sensitivity of the model to these parameters was tested by doubling, then halving each parameter, one at a time. It was assumed that testing this range of values would bracket the range of uncertainty for each parameter. This may not be true for the Vcont data, but changes in the Vcont values greater than the stated range resulted in the model becoming unstable. Head changes in each layer were examined to determine the relative sensitivity. The results of these tests are presented in Tables 3, 4, and 5. The model was tested for its sensitivity to the following stresses: recharge, maximum evapotranspiration rate, and evapotranspiration extinction depth. Recharge and ET rates were increased and decreased by 10%, and the ET extinction depth was raised and lowered by one foot. It was assumed that testing this range of values for the various stresses would bracket the range of uncertainty. Results of these sensitivity tests are presented in Table 6.

The strongly implicit procedure (SIP) was the solution method used in the calibration process. Overall, it resulted in a stable solution in an average of 14 iterations. However, when severe drought scenarios were tested, the model became unstable and would not converge. Therefore, the slice-successive over relaxation (SSOR) method was tested. Using the calibrated data, SSOR would reach a solution in 31 iterations. The maximum head difference between solutions generated by the two methods was 0.01 feet, which was considered insignificant. SSOR provided a stable solution for the drought scenarios.

TABLE 3
SENSITIVITY RESPONSES TO CHANGES IN LAYER 1
(Head Changes in Feet)

	MAXIMUM HEAD INCREASE	MINIMUM HEAD INCREASE	AVERAGE HEAD CHANGE	STD. DEV.
Change in Layer 1				
Conductivity Doubled	.99	-1.58	-.08	.26
Conductivity Halved	1.22	-.91	-.06	.18
Vcont Doubled	.65	-.66	.005	.10
Vcont Halved	.66	-.84	.007	.12
Riv. Cond. Doubled	.33	-.19	-.0007	.04
Riv. Cond. Halved	.01	-.69	-.01	.05
Change in Underlying Layer 2				
Conductivity Doubled	.98	-1.47	-.05	.19
Conductivity Halved	1.12	-.45	.04	.12
Vcont Doubled	1.92	-.73	.16	.30
Vcont Halved	-2.63	-.59	-.29	.49
Riv. Cond. Doubled	.23	-.10	-.001	.03
Riv. Cond Halved	.01	-.69	-.01	.04
Change in Underlying Layer 3				
Conductivity Doubled	.20	-.48	-.02	.07
Conductivity Halved	.38	-.09	.01	.04
Vcont Doubled	1.12	-.49	.05	.15
Vcont Halved	.32	1.74	-.10	.26
Riv. Cond. Doubled	.08	-.06	-.002	.009
Riv. Cond. Halved	.03	-.07	.001	.006

TABLE 4
SENSITIVITY RESPONSES TO CHANGES IN LAYER 2
(Head Changes in Feet)

	MAXIMUM HEAD INCREASE	MINIMUM HEAD INCREASE	AVERAGE HEAD CHANGE	STD. DEV.
Change in Layer 2				
Transmissivity Doubled	3.74	-1.13	.14	.70
Transmissivity Halved	1.49	-5.40	-.06	.51
Vcont Doubled	.12	-.40	.005	.03
Vcont Halved	.50	-.18	.006	.03
Change in Overlying Layer 1				
Transmissivity Doubled	3.31	-.88	.16	.57
Transmissivity Halved	1.46	-2.44	-.07	.34
Vcont Doubled	.06	-.12	-.004	.02
Vcont Halved	.16	-.07	.004	.02
Change in Underlying Layer 3				
Transmissivity Doubled	1.09	-.50	.06	.23
Transmissivity Halved	.39	-1.11	.03	.14
Vcont Doubled	6.83	-.48	.50	1.12
Vcont Halved	4.82	-9.30	-.73	1.52

TABLE 5
SENSITIVITY RESPONSES TO CHANGES IN LAYER 3
(Head Changes in Feet)

	MAXIMUM HEAD INCREASE	MINIMUM HEAD INCREASE	AVERAGE HEAD CHANGE	STD. DEV.
Change in Layer 3				
Transmissivity Doubled	10.47	-2.20	.11	.95
Transmissivity Halved	5.04	-9.76	-.09	1.07
Change in Overlying Layer 1				
Transmissivity Doubled	.13	-.16	-.004	.02
Transmissivity Halved	.09	-.11	.002	.02
Change in Overlying Layer 2				
Transmissivity Doubled	.57	-.45	-.01	.05
Transmissivity Halved	.28	-.46	.007	.04

TABLE 6
SENSITIVITY RESPONSES TO CHANGES IN STRESS
(Head Changes in Feet)

	MAXIMUM HEAD INCREASE	MINIMUM HEAD INCREASE	AVERAGE HEAD CHANGE	STD. DEV.
<u>Change in Layer 1</u>				
Recharge at 110%	3.11	0	.43	.45
Recharge at 90%	0	-1.42	-.33	.22
Max. ET Rate at 110%	0	-1.56	-.27	.21
Max ET Rate at 90%	3.93	0	.47	.60
ET ext. depth at 4 ft.	.61	0	.19	.14
ET ext. depth at 6 ft.	0	-.58	-.18	.13
<u>Change in Layer 2</u>				
Recharge at 110%	3.09	0	.40	.44
Recharge at 90%	0	-1.39	-.31	.21
Max ET Rate at 110%	0	-1.39	-.31	.21
Max ET Rate at 90%	3.90	0	.49	.57
ET ext. depth at 4 ft.	.53	0	.17	.12
ET ext. depth at 6 ft.	0	-.49	-.17	.12
<u>Change in Layer 3</u>				
Recharge at 110%	1.09	0	.17	.25
Recharge at 90%	0	-.56	-.13	.81
Max ET Rate at 110%	0	-.45	-.11	.15
Max ET Rate at 90%	1.36	0	.18	.29
ET ext. depth at 4 ft.	.48	0	.08	.12
ET ext. depth at 6 ft.	0	-.48	-.08	.12

Layer 1 (Water Table Aquifer)

Generally, simulated water levels in layer 1 were not sensitive to changes in aquifer parameters. Changing the hydraulic conductivity caused some changes in head levels near areas where withdrawals occur, but these changes are localized. Layers 2 and 3 react to changes in the aquifer parameters in layer 1 in a similar manner. As expected, simulated water levels in layer 1 are sensitive to changes in stress. This layer is most sensitive to recharge, followed by the ET rate, and ET extinction depth. Layers 2 and 3 react to changes in stresses in a similar manner.

Layer 2 (Lower Tamiami Aquifer)

Simulated heads in layer 2 are also insensitive to changes in aquifer parameters, with the exception of Vcont between layers 1 and 2. Doubling this parameter resulted in a maximum rise in simulated head of 3.79 feet (in a heavily pumped area), but on average the heads did not significantly change. However, when the layer 1 Vcont was halved, the average simulated head dropped almost 0.2 feet. This is expected, as leakage from layer 1 is the major source of flow into layer 2.

Layer 3 (Sandstone Aquifer)

Simulated heads in layer 3 are sensitive to changes in Vcont between layers 2 and 3, and only slightly sensitive to changes in the layer 3 transmissivity. Doubling transmissivity resulted in a maximum rise in head of 10.47 feet, with an average rise of 0.12 feet, while halving transmissivity caused simulated head to decline a maximum of 9.76 feet, with an average decline of 0.06 feet. The largest changes in heads are near areas of large withdrawals. Layer 3 is slightly more sensitive to changes in transmissivity than layer 2 because it has lower transmissivity values.

Simulated heads in layer 3 are most sensitive to changes in Vcont between layers 2 and 3. Doubling this parameter resulted in a maximum rise in simulated head of 6.83 feet, with an average rise of 0.47 feet. Halving the layer 2 Vcont resulted in a maximum decline in simulated head of 9.28 feet, with an average decline of 0.88 feet. This is expected, as leakage from the layer 2 accounts for 98% of the inflow to layer 3.

PREDICTIVE SCENARIO

INTRODUCTION

One steady state predictive scenario was evaluated. For this run, the following changes were made from the final calibration data:

1. Recharge was set to the amount expected in a 2-in-10 year drought event (rainfall approximately 80% of average),

2. The pumpage file was modified to represent the additional irrigation requirements during the 2-in-10 year drought, and

3. All proposed wells and crops requested in water use permits issued through November 1989 were represented in this scenario. Projected demands for public water supply were also included.

RESULTS

The simulated head and head declines discussed in this section are the average for a given model cell. Actual head decline caused by the simulated drought may be greater or lesser due to the effects of cell-wide averaging.

Layer 1 (Water Table Aquifer)

Figure 35 shows the water levels within layer 1 (water table aquifer) for average conditions. Figure 36 shows the predicted decline in simulated water levels expected in a 2-in-10 year drought. It can be seen that approximately 50% of the water table aquifer within the modeled area will undergo a simulated head decline of one foot or more. This is a regional effect of the decreased amount of recharge during the drought. There are several localized areas showing greater simulated head declines, all as a result of well withdrawals. The area in southeast Hendry County showing four feet of head decline is a result of increased withdrawals in the lower Tamiami aquifer. This causes a corresponding increase in the leakage from the water table aquifer into the lower Tamiami aquifer. The area northwest of Immokalee showing a simulated head decline of three feet is caused by increased withdrawals in both the water table and sandstone aquifers. The same is true for the area west of LaBelle that exhibits a simulated head decline of four feet. The area of simulated head decline of one foot that extends south into central Hendry County is caused by increased withdrawals from the water table aquifer just south of the Hendry County - Glades County border, and a proposed agricultural withdrawal from the lower Tamiami aquifer north of highway 832. Simulated water level declines in excess of one foot may impact the water levels and hydroperiods of some wetlands.

Layer 2 (Lower Tamiami Aquifer)

Figure 37 shows the simulated head distribution within layer 2 (lower Tamiami aquifer) for average conditions. Figure 38 shows the predicted decline in simulated head expected in a 2-in-10 year drought. As with layer 1 (water table aquifer), approximately 50% of the lower Tamiami aquifer in the modeled area shows a simulated head decline of one foot or more as a result of a decrease in the recharge rate. In addition, three localized areas show a larger simulated head decline. The first is a large area corresponding to the intense water withdrawals for agricultural

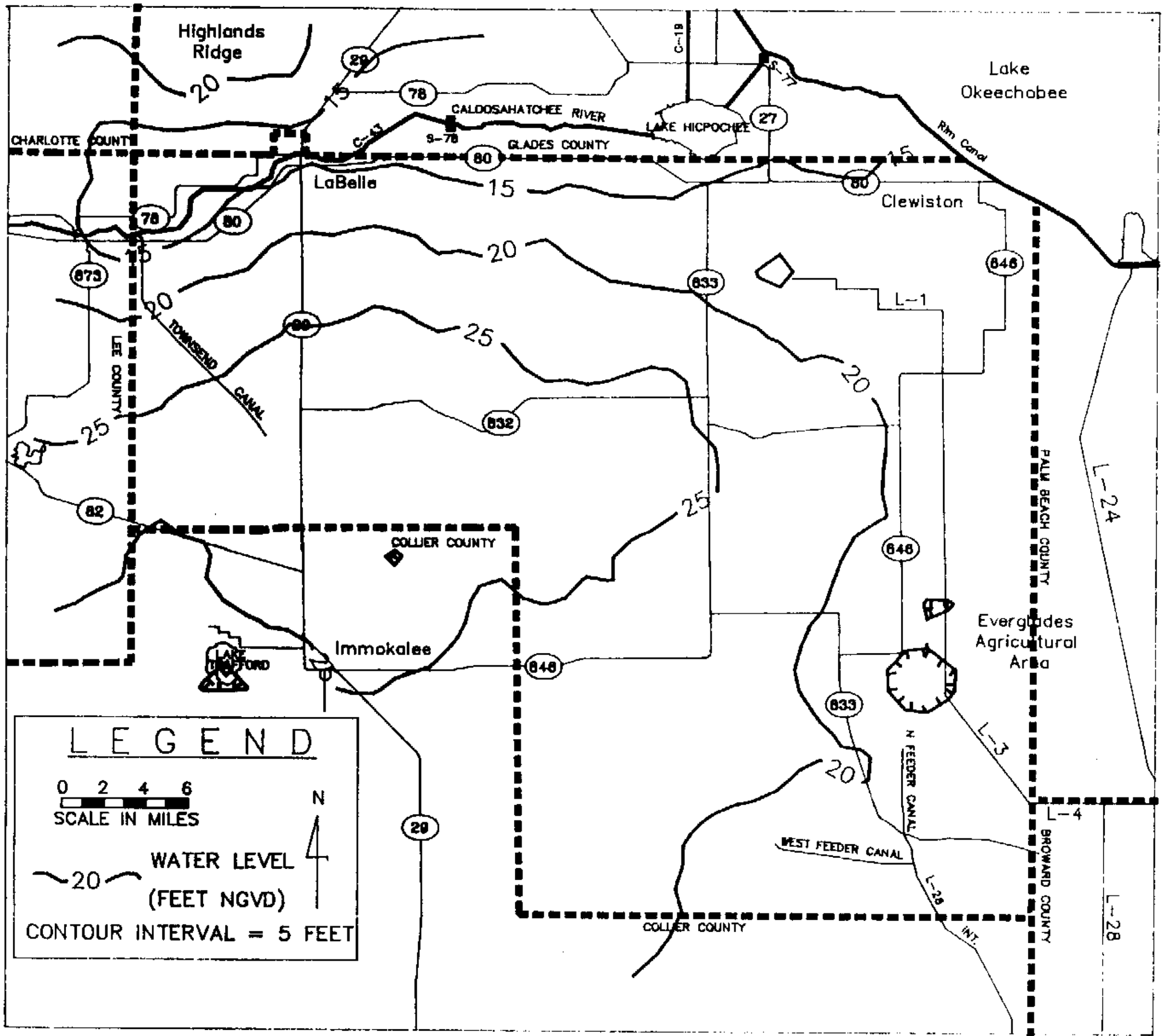

Figure 35. STEADY STATE WATER LEVELS, LAYER 1 (WATER TABLE AQUIFER)

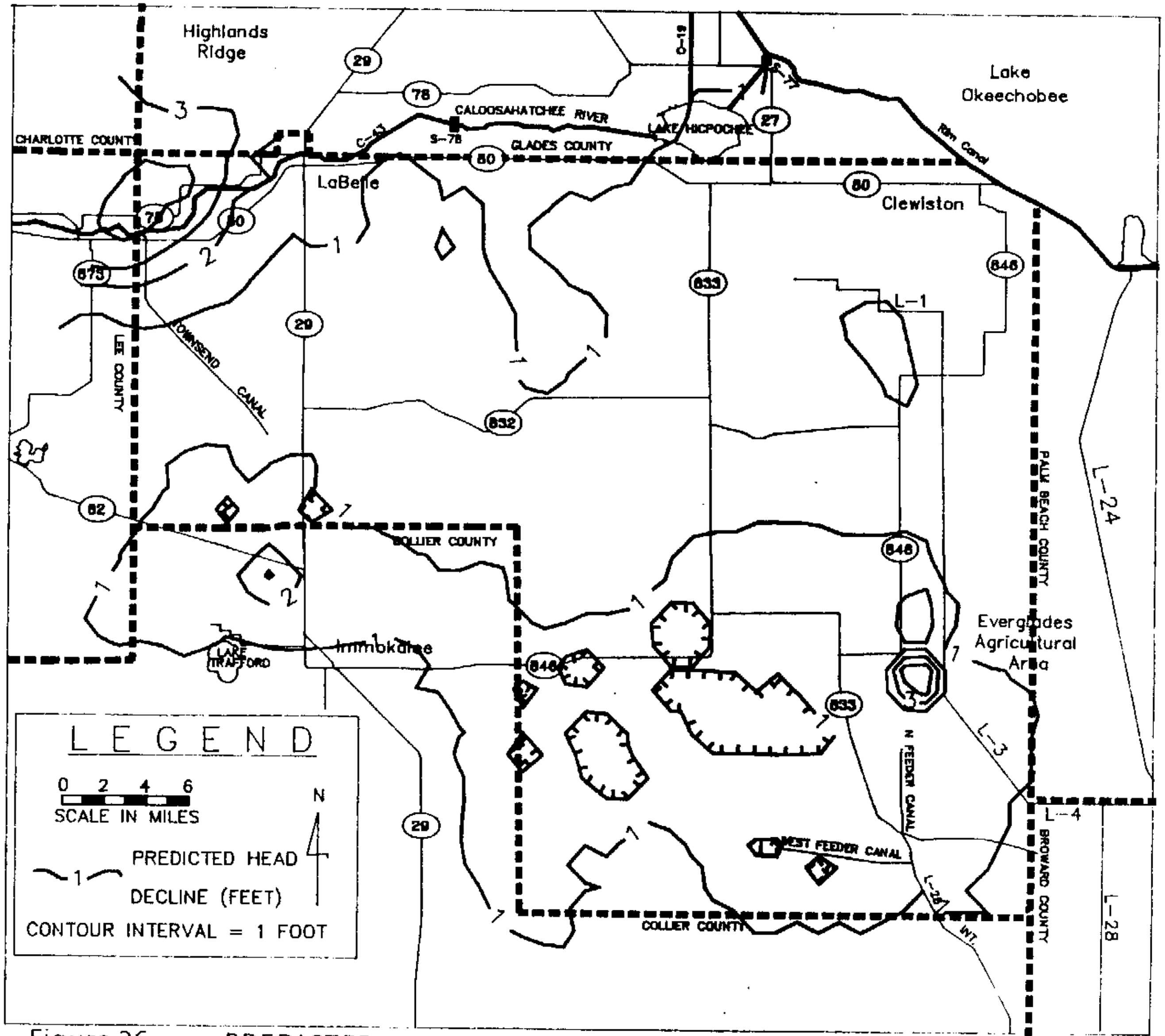

Figure 36. PREDICTED WATER LEVEL DECLINE, LAYER 1 (WATER TABLE AQUIFER), STEADY STATE CONDITIONS

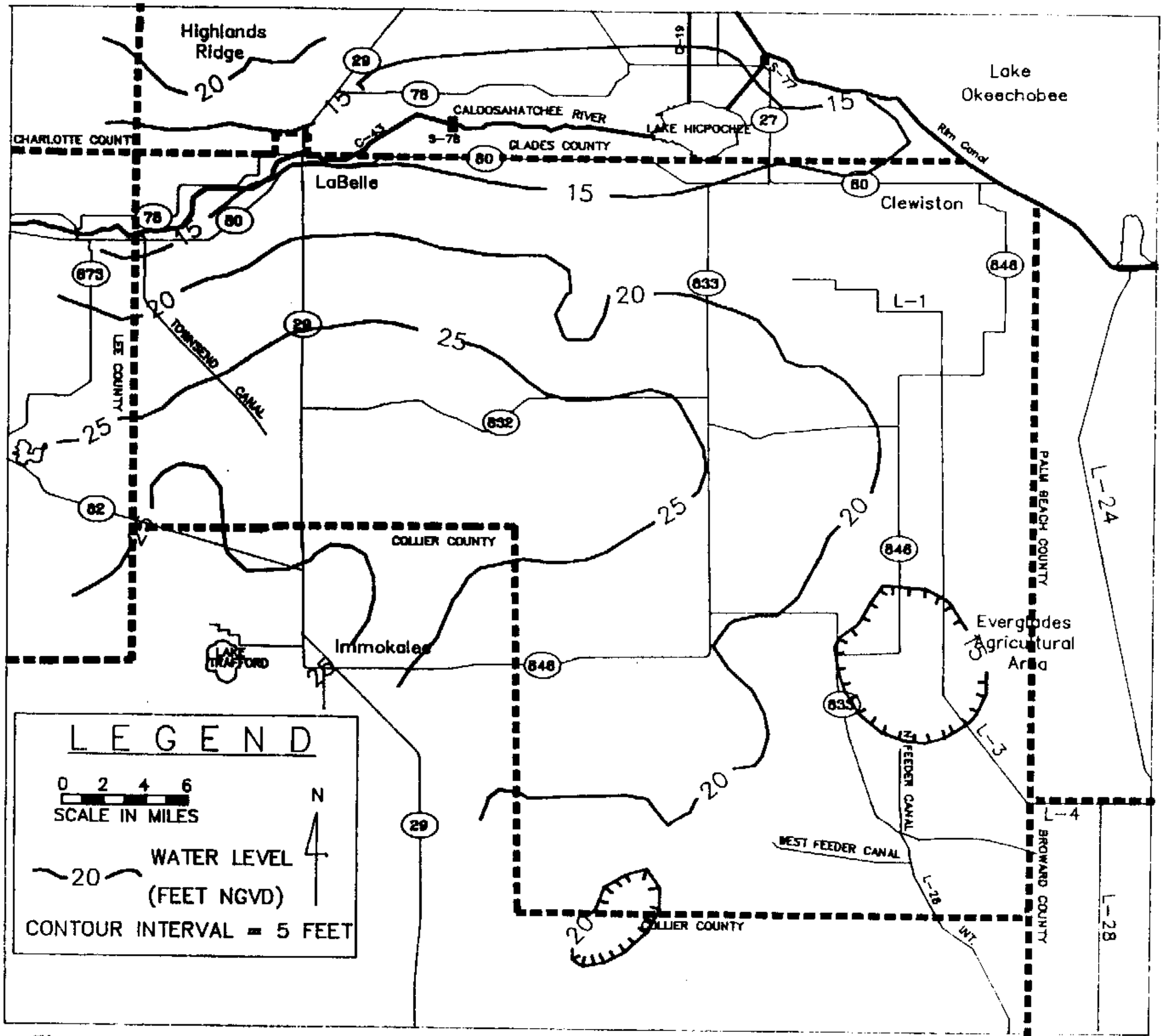

Figure 37. STEADY STATE WATER LEVELS, LAYER 2 (LOWER TAMIAMI AQUIFER)

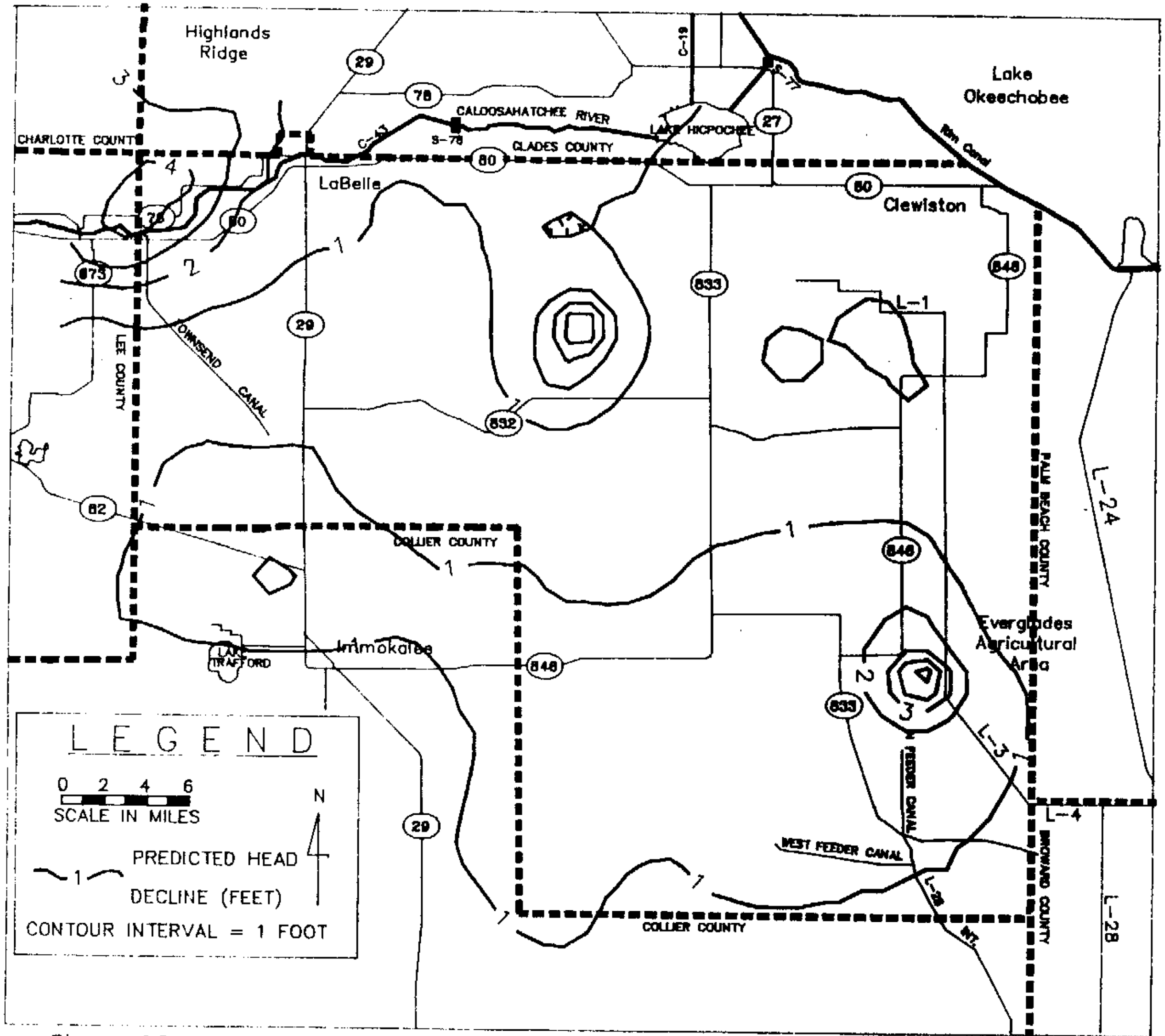

Figure 38. PREDICED WATER LEVEL DECLINE, LAYER 2 (LOWER TAMIAMI AQUIFER), STEADY STATE CONDITIONS

irrigation in southeast Hendry County. Expected head declines are in excess of four feet. The second area is in central Hendry County, and is a result of a proposed large scale agricultural operation. The third area is west of LaBelle an is a result of increased withdrawals in the underlying sandstone aquifer causing an increase in the amount of leakage from the water table and lower Tamiami aquifers into the sandstone aquifer. All of these simulated head declines may be reaching levels where they will affect adjacent users, particularly those with wells equipped with centrifugal pumps.

Layer 3 (Sandstone Aquifer)

Figure 39 shows the simulated head distribution within layer 3 (sandstone aquifer) for average conditions. Figure 40 shows the predicted decline in simulated head expected in a 2-in-10 year drought. As expected, cones of depression around intense water uses deepen, some in excess of 10 feet. In addition, predicted head declines greater than one foot cover more than 75% of the sandstone aquifer within the modeled area. The predicted declines are significant because they are at levels which are beginning to affect the overlying aquifers by inducing greater amounts of leakage, and thereby affecting heads in the overlying aquifers. Layer 3 (sandstone aquifer) shows greater impacts to well withdrawals than the shallower aquifers because it exhibits lower values of transmissivity and storage, and because well withdrawals account for almost 80% of the flow out of the sandstone aquifer.

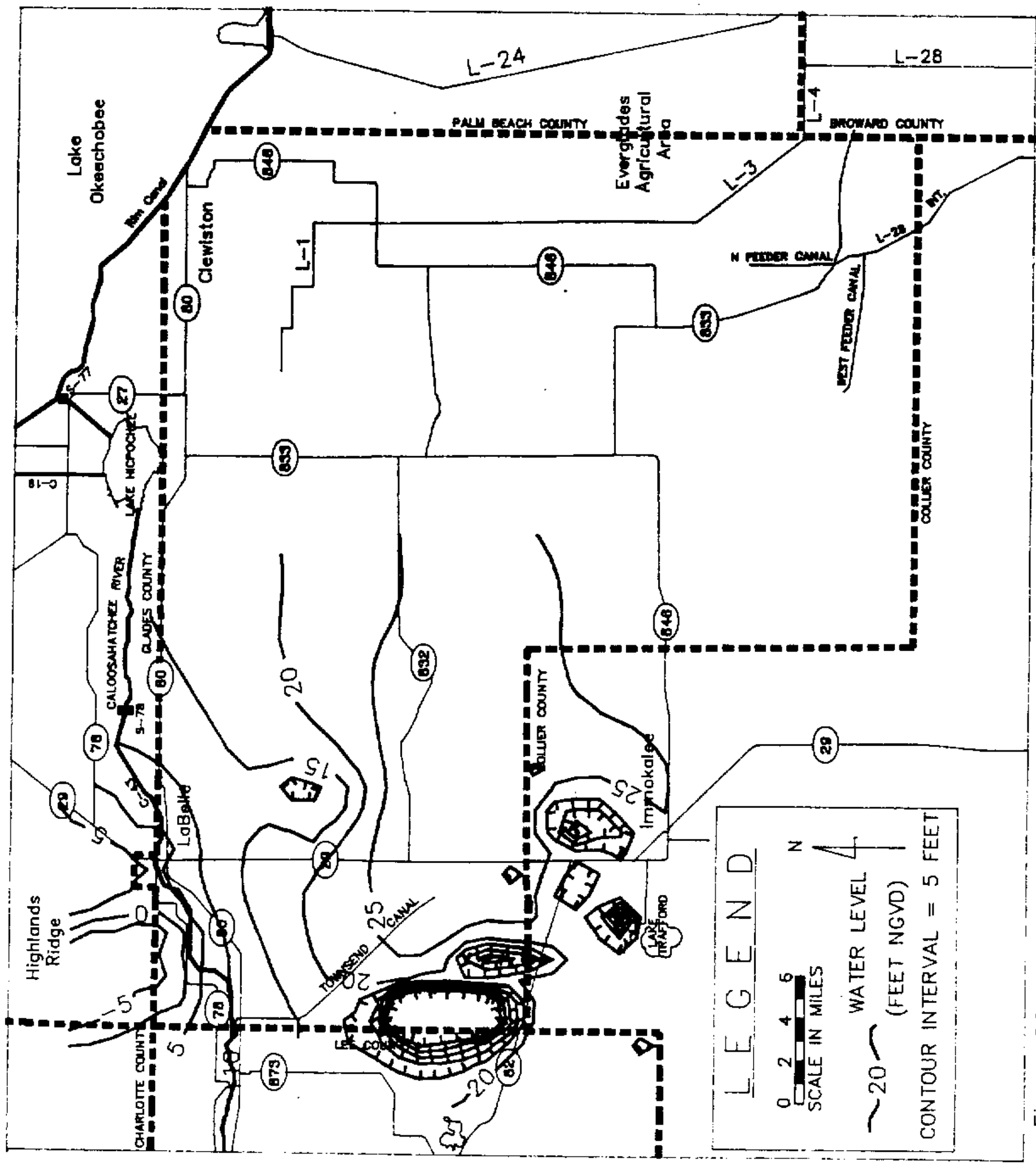

Figure 39. STEADY STATE WATER LEVELS, LAYER 3 (SANDSTONE AQUIFER)

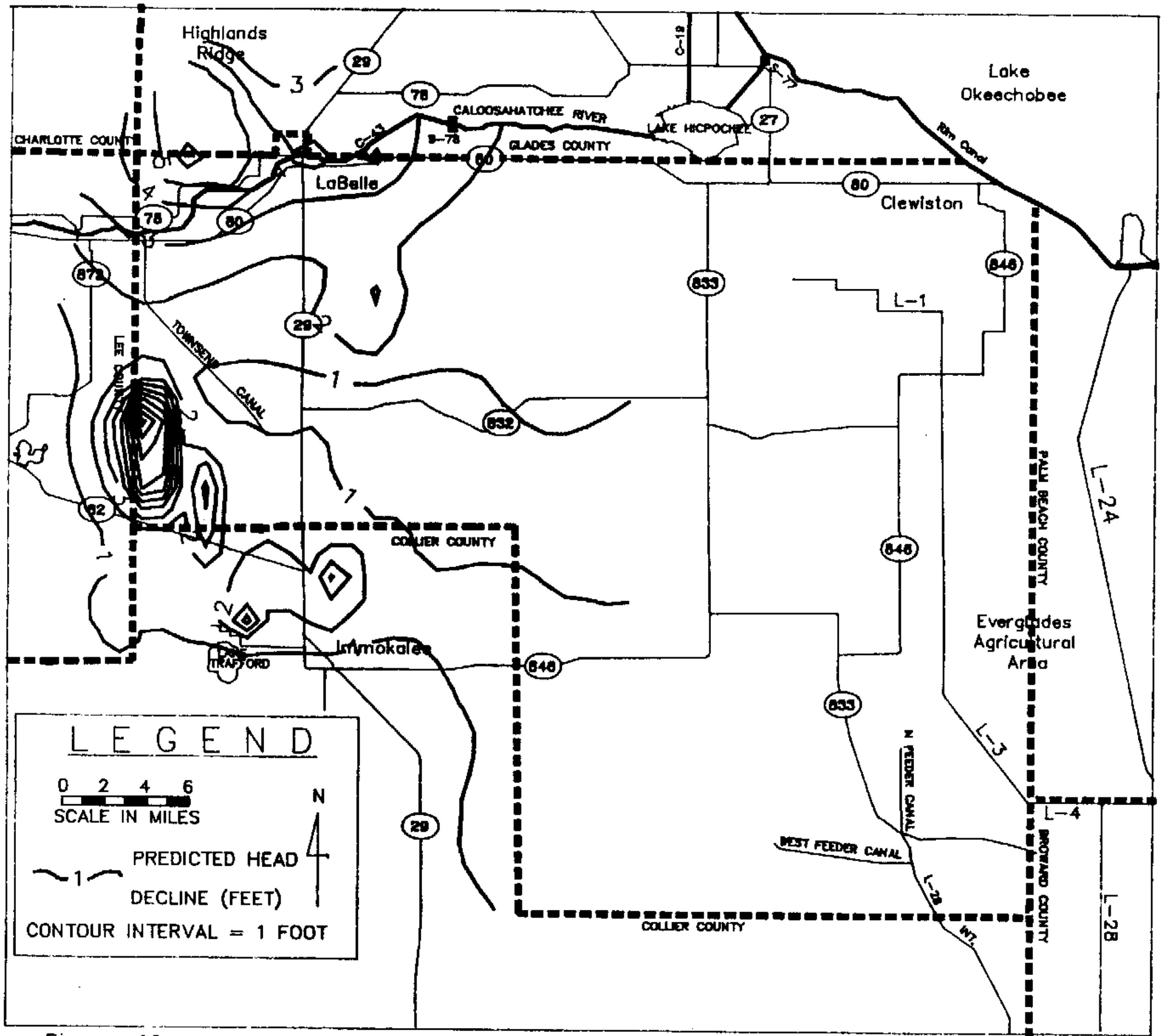

Figure 40. PREDICTED WATER LEVEL DECLINE, LAYER 3 (SANDSTONE AQUIFER), STEADY STATE CONDITIONS

RESULTS AND CONCLUSIONS

1. The most important source of recharge to the Surficial Aquifer System and Intermediate Aquifer System in Hendry County is rainfall. Under average conditions for the three year period 1986 through 1988, approximately 96% of the recharge in the study area was provided by rainfall. The remaining 4% came from ground water flow into the modeled area, primarily from Glades and Collier Counties.

2. Evapotranspiration accounts for the majority of outflow from the modeled area (approximately 87%). The remaining outflow is comprised of well withdrawals (7%), ground water flow out of the modeled area, primarily to Lee and Collier Counties (5%), and discharge to surface water bodies (less than 1%).

3. The water table aquifer is not significantly impacted on a regional basis by water use under average conditions. However, in southeastern Hendry County a localized area of significant impact occurs as a result of well withdrawals in the underlying lower Tamiami aquifer. The increased leakage through the Tamiami confining zone caused by these withdrawals results in lower water levels in the water table aquifer.

   During simulations of moderate drought conditions (2-in 10 year drought), the water table aquifer begins to show some signs of stress. Regional water level declines of one foot or more cover approximately 50% of the aquifer in the modeled area. This regional decline is caused by a decrease in recharge due to the drought. In addition, several localized areas of water level decline due to well withdrawals in the water table or underlying aquifers appear. Simulated water level decline in these areas exceeds four feet. The affected areas are in southeastern Hendry County, northwest of Immokalee, and west of LaBelle. The simulated water level declines are enough to cause significant impacts to wetlands.

4. The model suggests that the lower Tamiami aquifer is beginning to show major impacts as a result of well withdrawals during average conditions. There is a regional cone of depression caused by agricultural irrigation in southeastern Hendry County. These withdrawals are influencing simulated regional flow patterns at distances up to eleven miles. Simulated water level declines range between ten and fifteen feet. However, as a result of cell-wide averaging, drawdowns at individual wells in the area may be much larger, and may be approaching the top of the aquifer. Other areas showing similar impacts, but on a smaller scale, are located near the north end of the L-1 canal, north-central Hendry County, the extreme southern portion of Hendry County, and along highway 82 near the Hendry County - Collier County - Lee County border. The lower Tamiami aquifer is also impacted by well withdrawals in the underlying sandstone aquifer in the area where Hendry, Lee, and Collier Counties meet.

   During simulations of moderate drought conditions (2-in 10 year drought), the lower Tamiami aquifer shows signs of increasing stress. Regional water level declines of one foot or more cover approximately 50% of the aquifer in the modeled area. As with the water table aquifer, the regional decline is caused by a decrease in recharge due to the drought. In addition, several localized areas of water level decline (in excess of four feet due to well withdrawals from the lower Tamiami or underlying aquifers) appear throughout the county. For example, the area in southeast Hendry County is a result of increased withdrawals for agricultural irrigation. The area in north central Hendry County is caused by a proposed agricultural operation. The area west of LaBelle is probably a result of decreased recharge and increased withdrawals on the underlying sandstone aquifer.

5. The model suggests that the sandstone aquifer is heavily impacted by current well withdrawals, which account for approximately 80% of the flow out of the aquifer within the study area during average conditions. Because of the hydraulic properties of the sandstone aquifer, cones of depression that form around pumped wells are deeper and exhibit a smaller areal extent than cones typically found in the lower Tamiami aquifer. The most significant cone of depression is located where Hendry, Lee and Collier Counties converge, where the cones from two large withdrawals are beginning to merge into one larger cone. A significant impacted area also occurs west of LaBelle, where the sandstone aquifer is characterized by very low values of transmissivity. Withdrawals from the sandstone aquifer also affecting water levels in the overlying aquifers. During simulations of moderate drought conditions (2-in 10 year drought), the sandstone aquifer shows the most stress of all the modeled aquifers. Regional water level declines of one foot or more cover more than 75% of the aquifer in the modeled area. Simulated head declines due to increased withdrawals exceed 10 feet in areas of heavy withdrawals for agricultural irrigation.

   In the area west of LaBelle, domestic wells with centrifugal pumps are impacted during drought conditions. The model indicates that water levels in this area are five to ten feet below sea level during the simulated drought. Since land surface averages 20 feet above sea level, the resulting depth to water distance of 25 to 30 feet is at or beyond the lift capability of centrifugal pumps. Actual depth to water distances will vary depending on actual land surface elevations and head differences resulting from cell-wide averaging.

6. Agricultural irrigation accounts for over 99% of the ground water withdrawals in Hendry County. However, data on actual amounts withdrawn is almost nonexistent. Actual water use data would increase confidence in the calibration of the model, particularly in areas in heavy ground water use. In addition, accurate projections of future agricultural water use will be necessary for the development of a water supply plan for the area including Hendry County.

7. The model in its present configuration is not accurate in assessing impacts on a small scale, due to the regional nature of the model grid. As a result, small scale impacts on adjacent users or small wetland areas may be overlooked due to cell-wide averaging. Improved grid resolution is needed to better assess these small scale impacts. Specific areas of concern include southeast Hendry County (in and around the regional cone of depression), west of LaBelle (Ft. Denaud and Muse areas), and the area where Hendry, Lee, and Collier Counties meet.

8. The model was difficult to calibrate within the specified constraints in several localized areas. Probable reasons are cell-wide averaging or uncertainty in aquifer parameters or stress rates. Future revisions to the model should be concentrated in these areas to improve the confidence level of the model.

RECOMMENDATIONS

1. Strict management of the sandstone aquifer in Hendry County is needed in light of the projected declines in water levels. Minimum water levels should be established for the sandstone aquifer, and all permitted withdrawals should be managed in order to maintain these levels. Increased monitoring of water levels and water withdrawals are needed to ensure that the minimum levels are maintained. This can be accomplished through the regulatory process. Setting of minimum levels should be included in the development of the water supply plan for this area.

2. The lower Tamiami aquifer in southeastern Hendry County is also significantly impacted by existing withdrawals. Minimum water levels should be established for the lower Tamiami aquifer in this area. Permitted withdrawals should be managed in order to maintain these levels. Increased monitoring of water levels, both in the lower Tamiami and water table aquifers, is needed to ensure that the minimum levels are maintained. Withdrawals should also be monitored. This can be accomplished through the regulatory process. Setting of minimum levels should be included in the development of the water supply plan for this area.

3. The model should be used in the evaluation of water use permits, and in regional planning projects. Where a finer scale site specific model is required, the regional model could be used to provide the boundary conditions. The model should continue to be refined and updated whenever additional data becomes available. In doing this, emphasis should be placed on the parameters to which the model is most sensitive, including vertical conductance of the confining zone and evapotranspiration. Specific areas of concern are southeast Hendry County, the area west of LaBelle, and the area where Hendry, Lee, and Collier Counties meet.

4. Accurate projections of agricultural ground water use in Hendry County is essential to the planning process. These projections must include acreages, crop types, and locations likely to be developed, in order to supply reasonable projections of water conditions. This should be included in the development of the water supply plan for this area.

5. More monitor wells should be constructed, particularly in the lower Tamiami and sandstone aquifers, in areas of intense withdrawal and areas of lower confidence in the calibration of the model. These wells should be added to the USGS monitor network for long term data collection. This will provide additional data for the refined calibration of updated models.

6. An interface should be developed with the Lee County model, and the Collier County model currently under development. This will result in a truly regional model that will encompass the entire flow regime for the Surficial Aquifer System and the Intermediate Aquifer System in the lower west coast planning area. The interface with the Lee County model is of particular importance since the models indicate that much of the flow into the sandstone aquifer in Lee County consists of lateral flow originating in Hendry County.

7. Interactions between ground water and surface water should be investigated. The network of small canals found in Hendry County should be examined, their effects on ground water flows quantified, and input to the model for evaluation. This could improve the calibration of the water table aquifer.

REFERENCES

Bower, R.F., K. M. Adams, and J. I. Restrepo. 1990. A Three Dimensional Finite Difference Ground Water Flow Model of Lee County, Florida. South Florida Water Management District Technical Publication 90-1.

Cooke, C.W., and S. Mossom. 1929. Geology of Florida. Florida Geological Survey 20th Annual Report.

Driscoll, F. G. 1986. Groundwater and Wells. Johnson Division.

DuBar, J. R. 1958. Neogene Stratigraphy of Southwestern Florida. Gulf Coast Association of Geological Societies Transactions, Volume VIII.

Fetter, C. W. 1980. Applied Hydrogeology. Charles E. Merrill Company.

Fish, J. E., C. R. Causaras, and T. H. O'Donnell. 1983. Records of Selected Wells and Lithologic Logs of Test Holes, Hendry County and Adjacent Areas, Florida. U. S. Geological Survey Open-File Report 83-134.

James M. Montgomery Consulting Engineers, Inc. 1988. Lee County Water Resources Management Project.

Klein, H., M. C. Schroeder, and W. F. Lichtler. 1964. Geology and Ground Water Resource of Glades and Hendry Counties, Florida. Florida Geological Survey Report of Investigations No. 37.

Knapp, M. S., W. S. Burns, and T. S. Sharp. 1986. Preliminary Assessment of the Ground Water Resources of Western Collier County, Florida. South Florida Water Management District Technical Publication No. 86-1.

Kuiper, L. K. 1987. Computer Program for Solving Ground Water Flow Equations by the Preconditioned Conjugate Gradient Method. U.S. Geological Survey, Water Resources Investigations Report 87-4091.

Leach, S. D. 1980. Source, Use, and Disposition of Water in Florida, 1980. U. S. Geological Survey Water Resources Investigations 82-4090.

Leach, S. D. 1984. Projected Public Supply and Rural (Self-Supplied) Water Use in Florida Through Year 2020. U. S. Geological Survey Map Series No. 108.

Matson, G. G., and F. G. Clapp. 1909. A Preliminary Report on the Geology of Florida With Special Reference to the Stratigraphy. Florida Geological Survey Second Annual Report.

Matson, G. G., and S. Sanford. 1913. Geology and Ground Waters of Florida. U. S. Geological Survey Water-Supply Paper No.319.

McDonald, M. G. and A. W. Harbaugh. 1988. A Modular Three-Dimensional Finite-Difference Ground-Water Flow Model. Techniques of Water-Resources Investigations of the United States Geological Survey, Book 6, Chapter A1.

Missimer, T. M. 1984. The Geology of South Florida: Environments of South Florida Present and Past. Miami Geological Society.

REFERENCES (continued)

Parker, G. G., and C. W. Cooke. 1944 Late Cenozoic Geology of Southern Florida with a Discussion of the Groundwater. Florida Geological Survey Bulletin No. 50.

Parker, G. G., G. E. Ferguson, S. K. Love, and others. 1955. Water Resource of Southeastern Florida. U. S. Geological Survey Water Supply Paper No. 1255.

Peck, D. M., D. H. Slater, T. M. Missimer, S. W. Wise, and T. H. O'Donnell. 1979. Stratigraphy and Paleoecology of the Tamiami Formation in Lee and Hendry Counties, Florida. Gulf Coast Association of Geological Societies Transactions, Volume 29.

Puri, H. S., and R. O. Vernon. 1964. Summary of the Geology of Florida and a Guidebook to the Classic Exposures. Florida Geological Survey Special Publication No. 5 (revised).

Scott, T. M. 1988. The Lithostratigraphy of the Hawthorn Group (Miocene) of Florida. Florida Geological Survey Bulletin No. 59.

Shine, M. J., D. G. J. Padgett, and W. M. Barfknecht. 1989. Ground Water Resource Assessment Of Eastern Palm Beach County, Florida. South Florida Water Management District Technical Publication No. 88-4.

Slater, D. H. 1978. The Stratigraphy and Paleoecology of the Tamiami Formation in Hendry County, Florida. Unpublished Master's Thesis, Florida State University, Department of Geology.

Smith, K. R., and K. M. Adams. 1988. Ground Water Resource Assessment of Hendry County, Florida. South Florida Water Management District Technical Publication No. 88-12.

Smith, K. R., T. S. Sharp, and G. Shih. 1988. Investigation of Water Use, Land Use, and the Ground Water Monitor Network in Hendry County, Florida. South Florida Water Management District Technical Memorandum.

Southeastern Geological Society Committee on Florida Hydrostratigraphic Units Definition. 1986. Hydrogeological Units of Florida. Florida Geological Survey Special Publication No. 28.

South Florida Water Management District. 1985. Management of Water Use Permitting Information, Volume III.

United States Department of Agriculture, Soil Conservation Service. 1970. Irrigation Water Requirements. Technical Release No. 21.

Viessman, W., J. W. Knapp, G. L. Lewis, and T. E. Harbaugh, 1977. Introduction to Hydrology. A Dun-Donnelley Publisher, New York.

Wedderburn, L. A., M. S. Knapp, D. P. Waltz, and W. S. Burns. 1982. Hydrogeologic Reconnaissance of Lee County, Florida. South Florida Water Management District Technical Publication No. 82-1.

APPENDIX A

AQUIFER PARAMETERS

LIST OF FIGURES - APPENDIX A

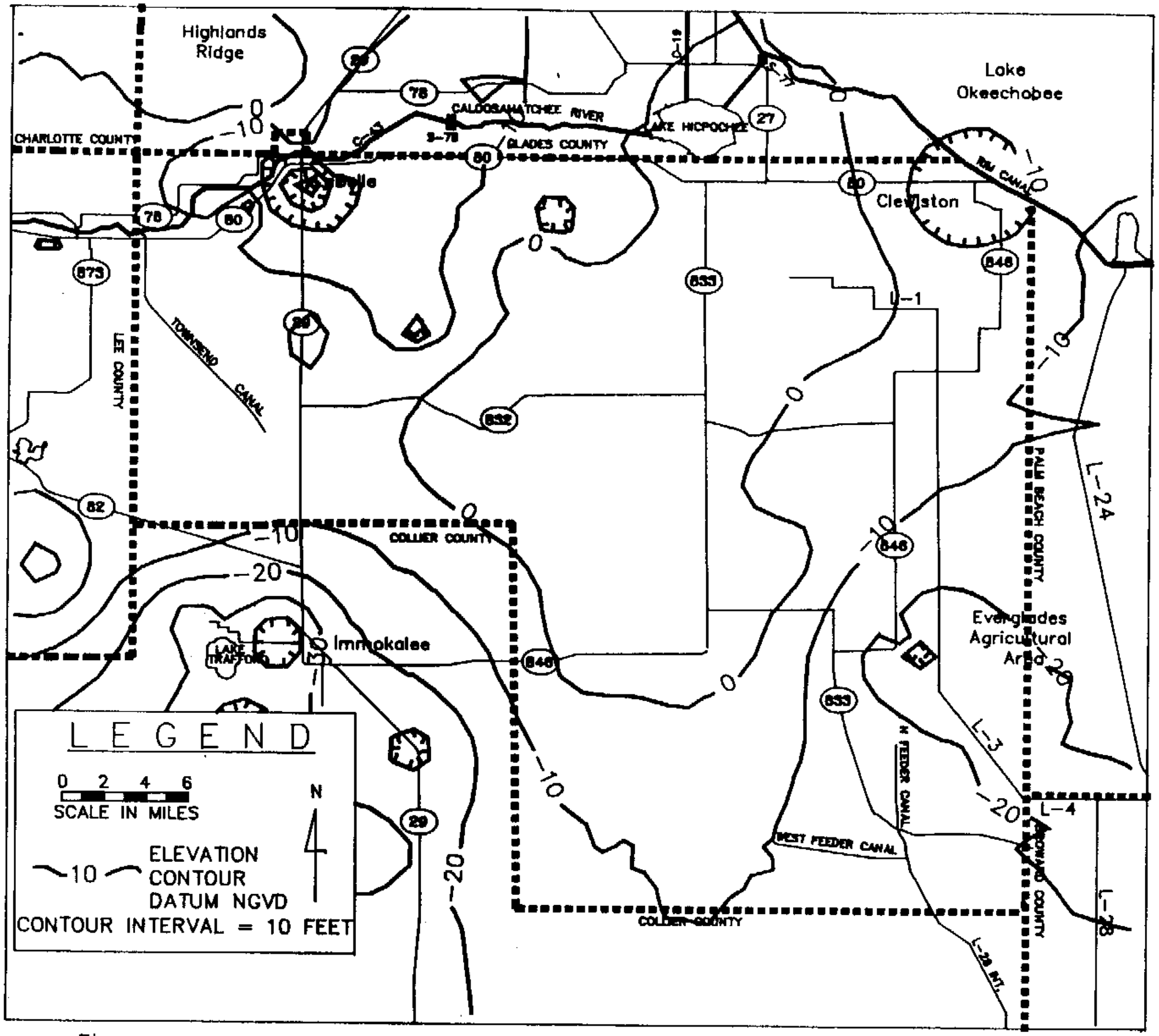

Figure A-1. **BOTTOM OF LAYER 1 (WATER TABLE AQUIFER)**

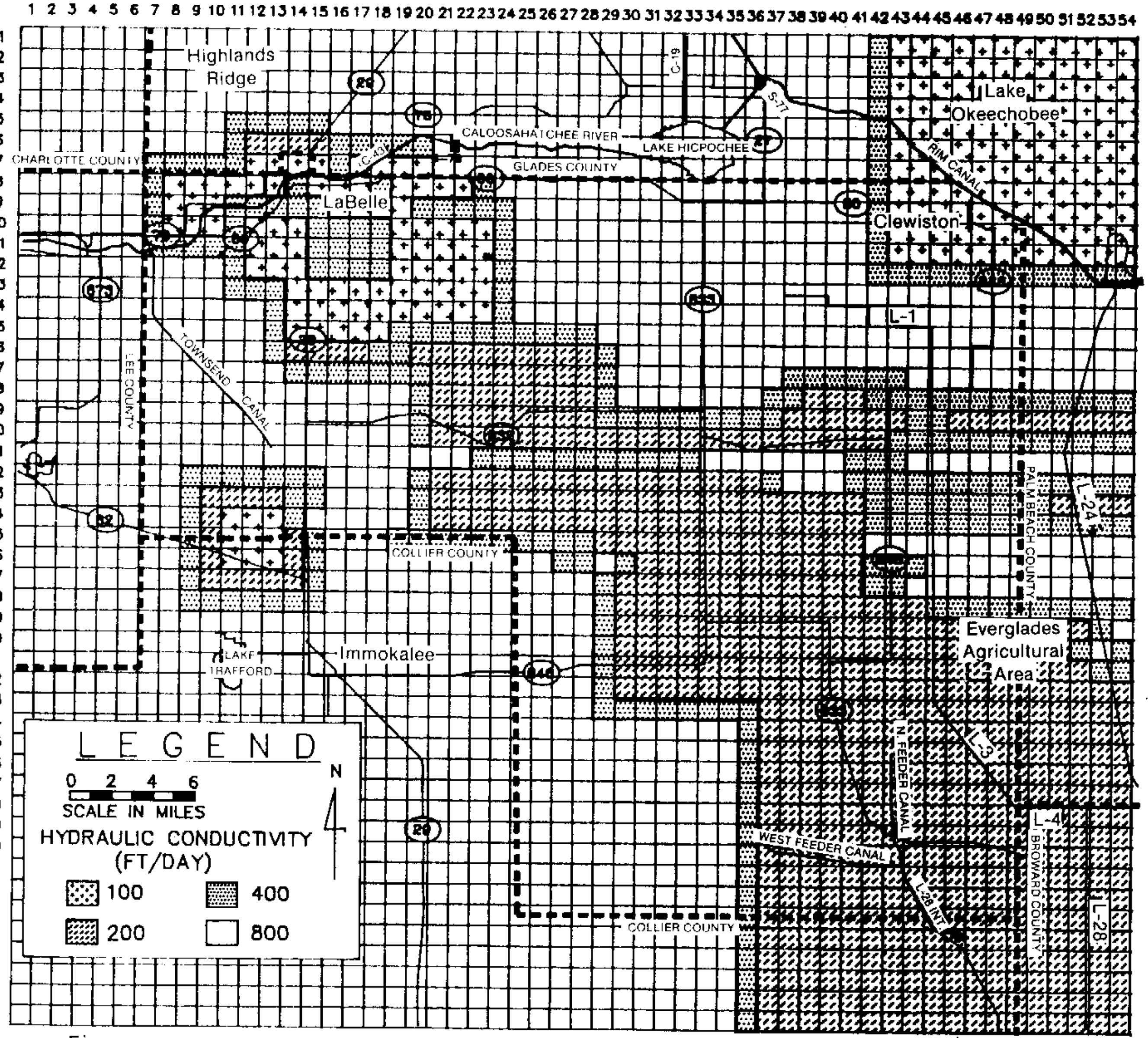

Figure A-2. HYDRAULIC CONDUCTIVITY, LAYER 1 (WATER TABLE AQUIFER)

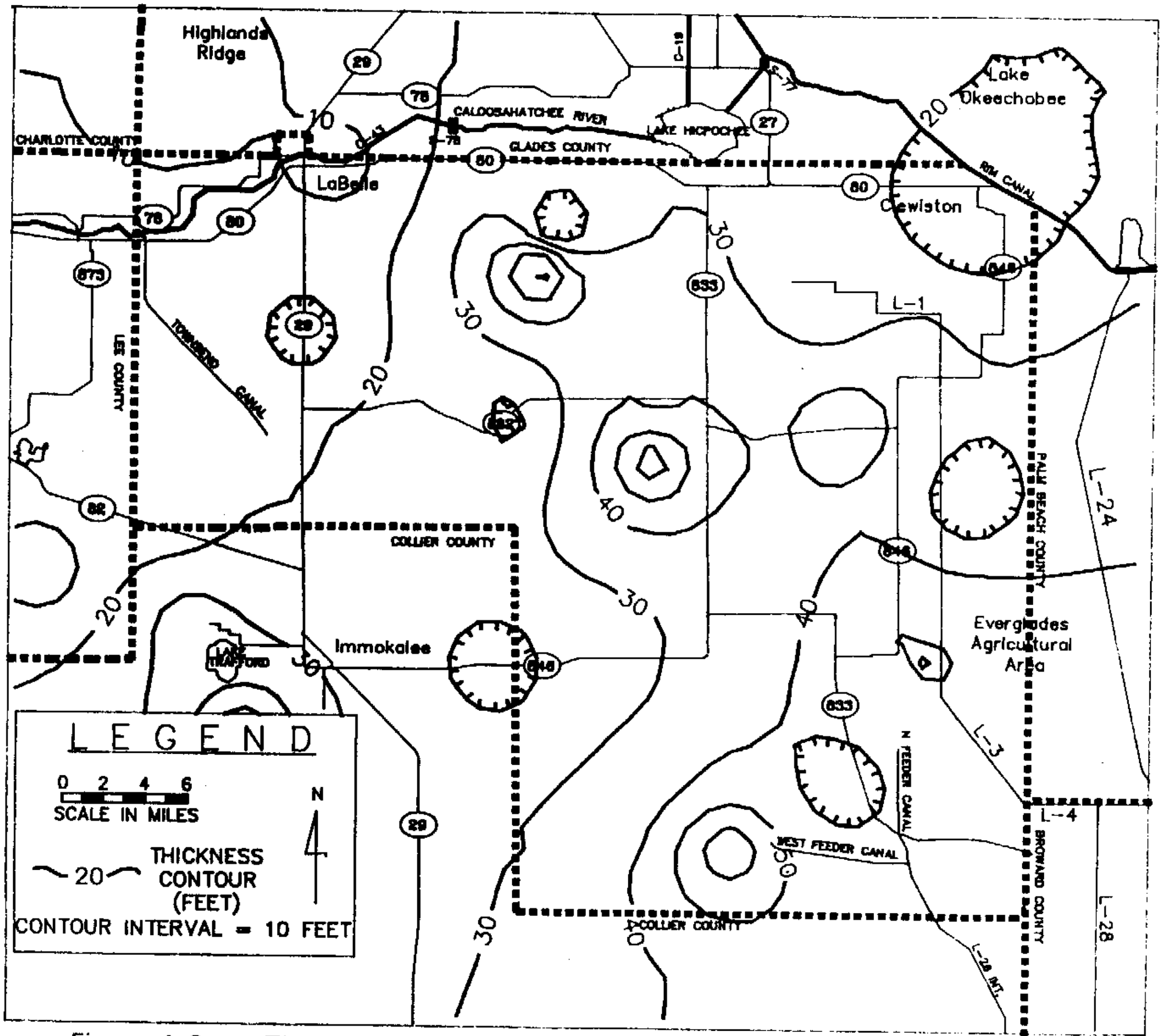

Figure A-3. THICKNESS OF THE TAMIAMI CONFINING ZONE

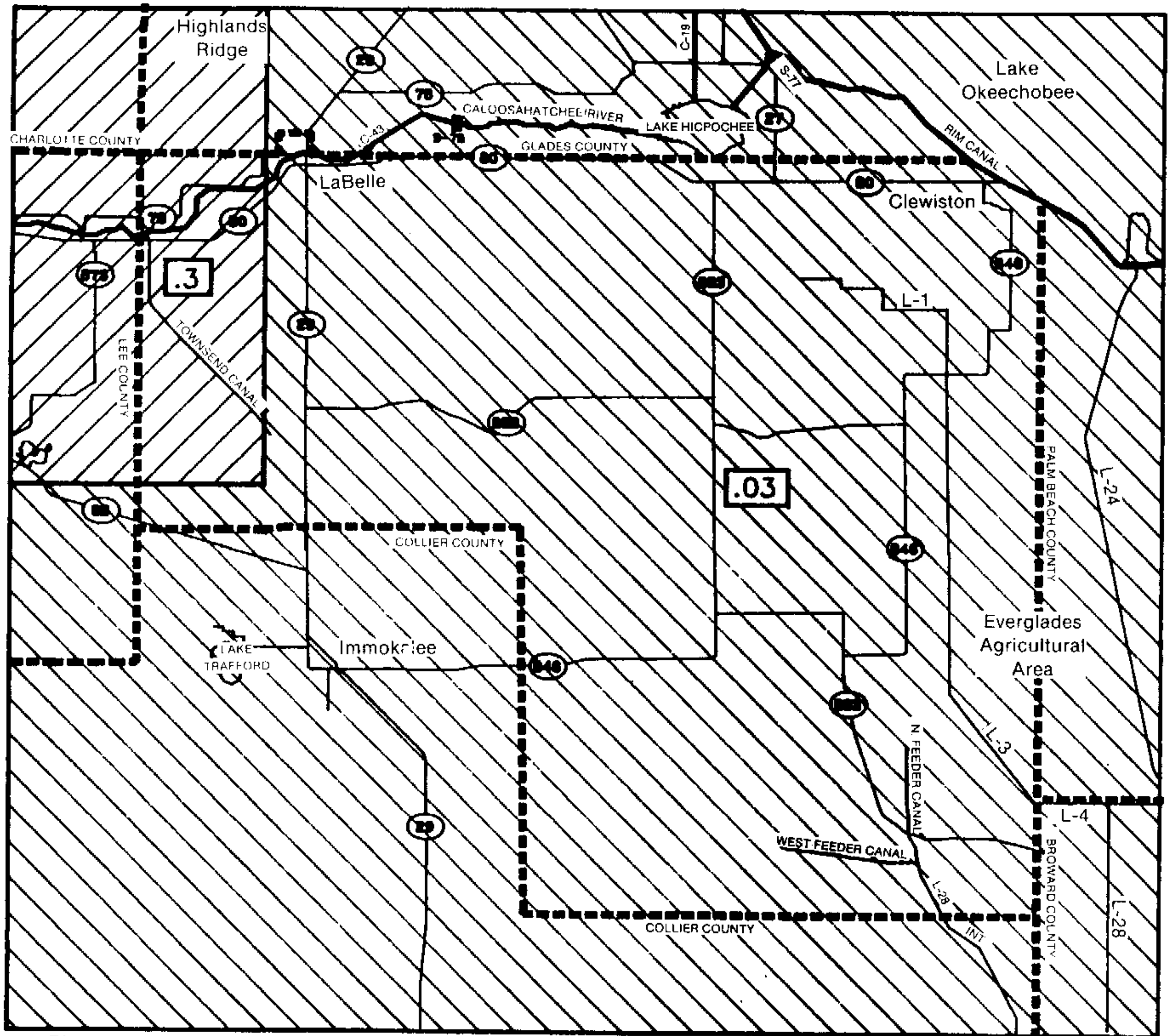

Figure A-4. VERTICAL HYDRAULIC CONDUCTIVITY OF THE TAMIAMI CONFINING ZONE

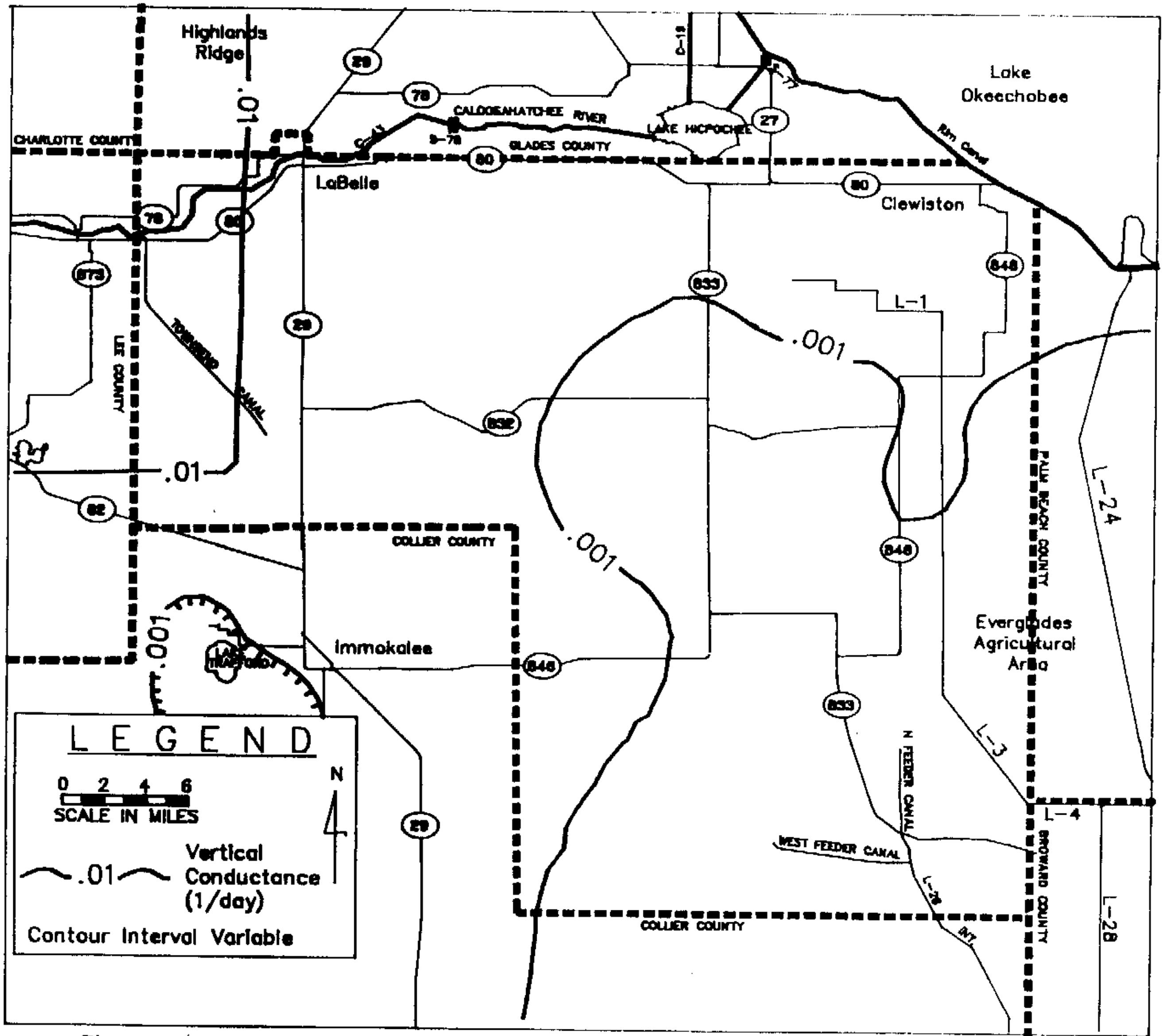

Figure A-5. Vcont, BOTTOM OF LAYER 1

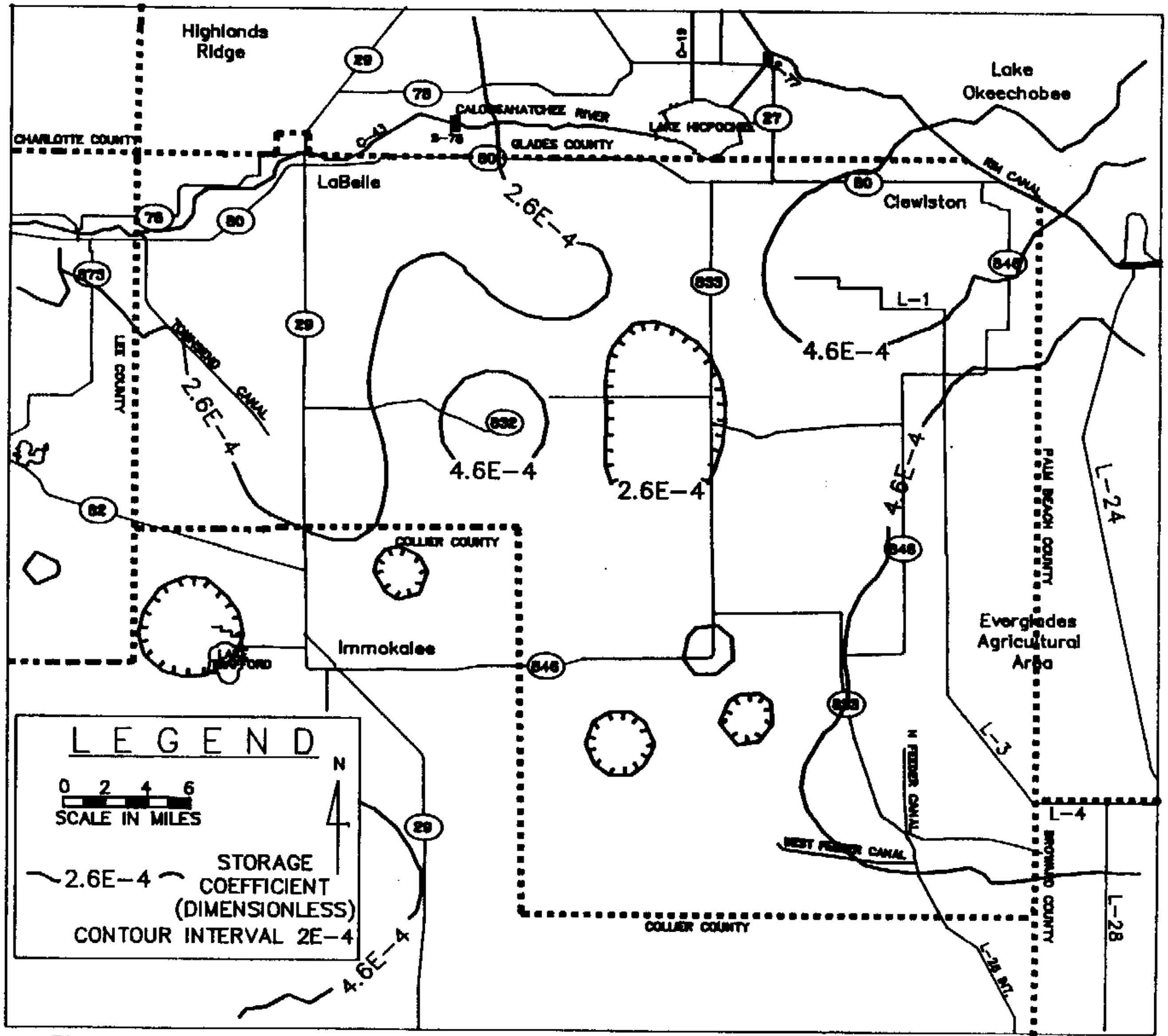

Figure A-6. STORAGE COEFFICIENT, LAYER 2 (LOWER TAMIAMI AQUIFER)

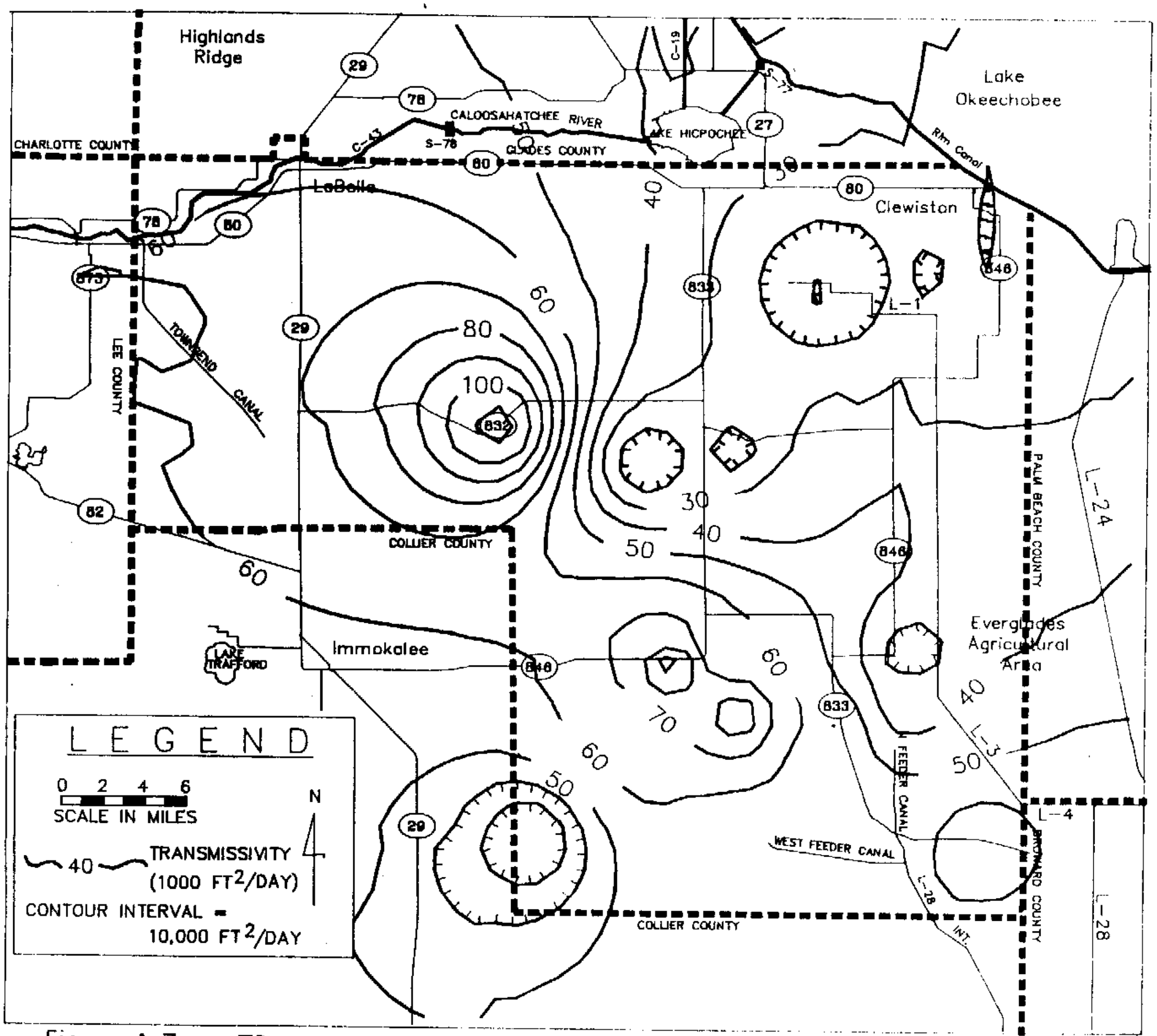

Figure A-7. TRANSMISSIVITY, LAYER 2 (LOWER TAMIAMI AQUIFER)

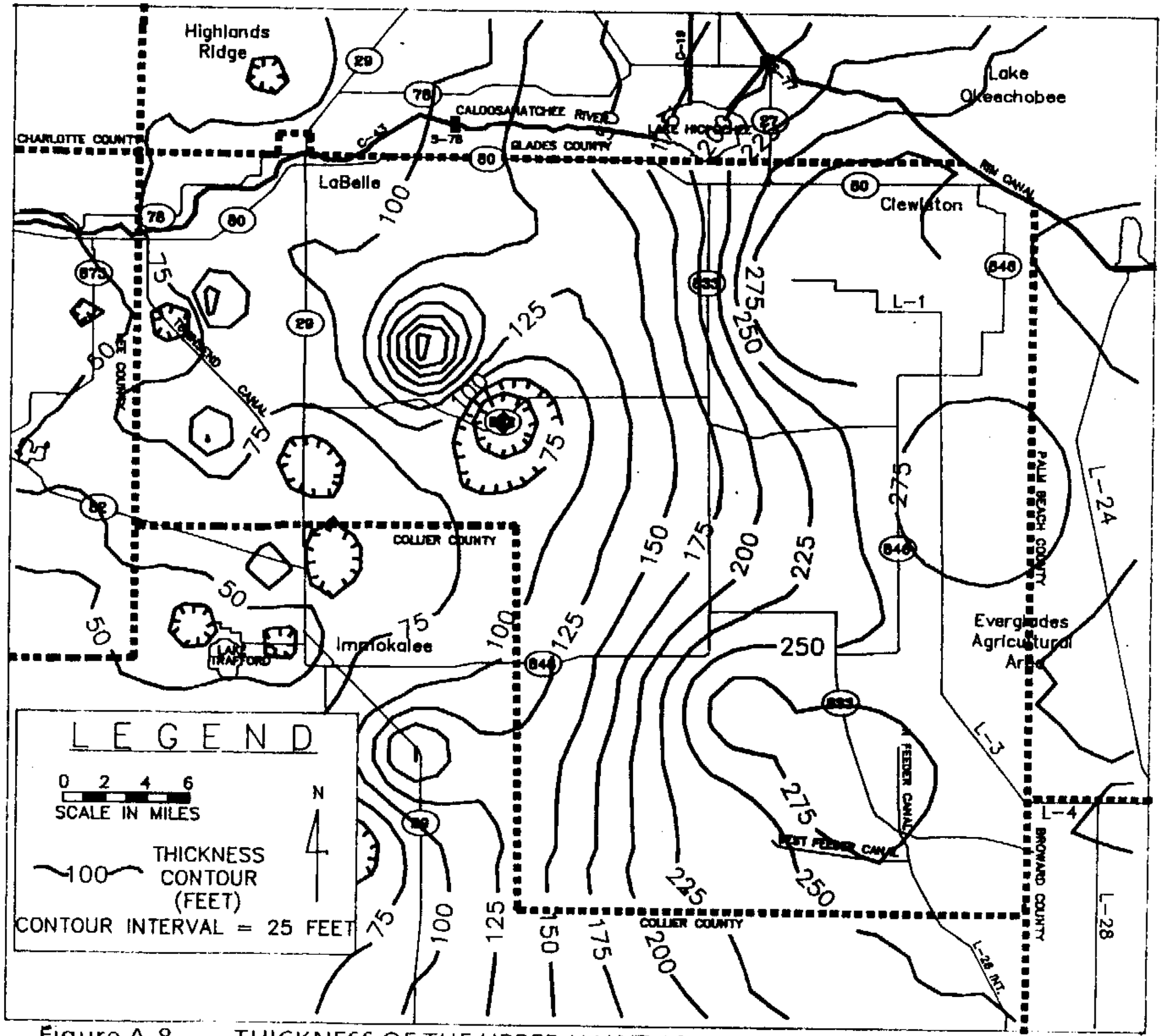

Figure A-8. THICKNESS OF THE UPPER HAWTHORN CONFINING ZONE

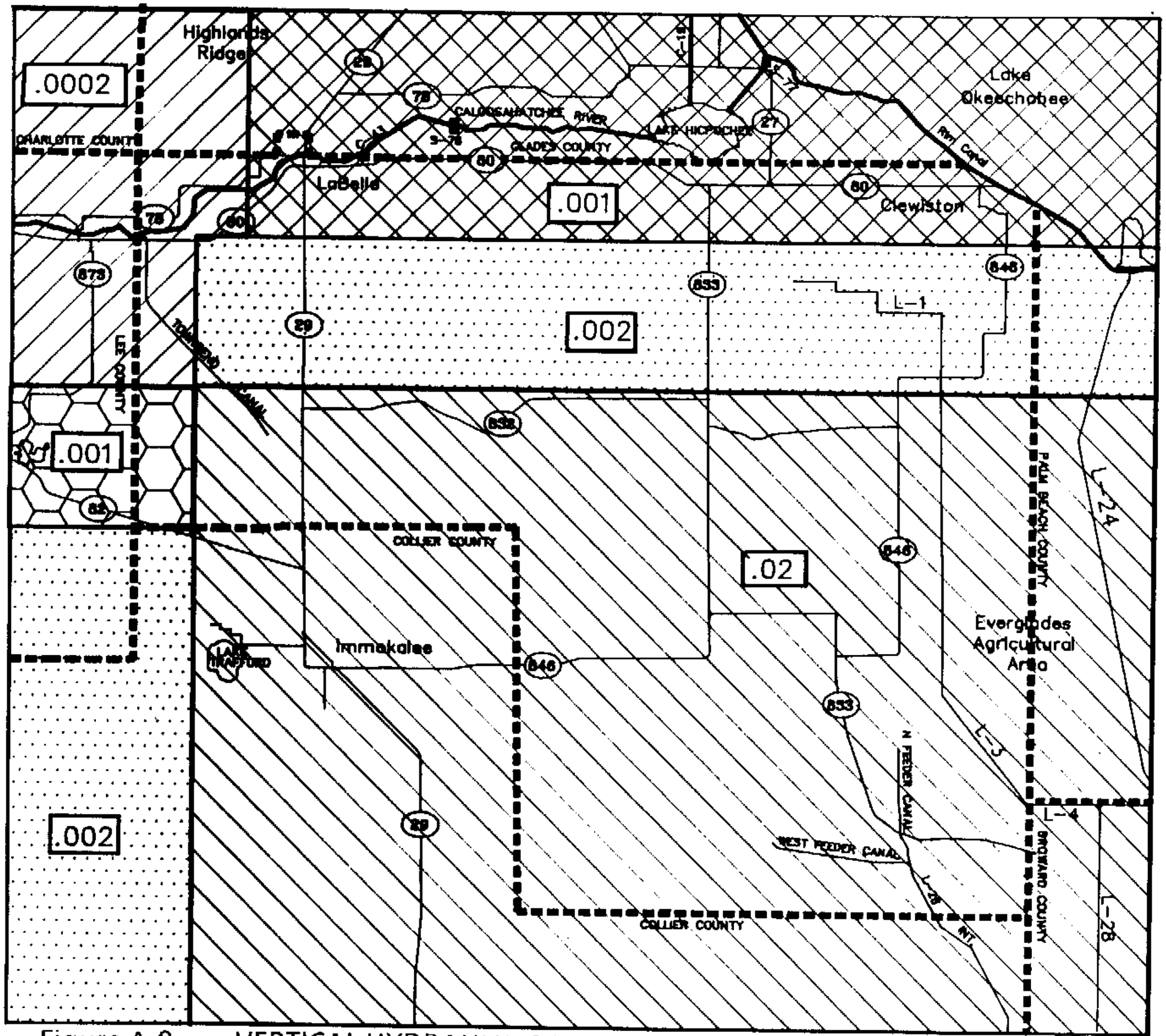

Figure A-9. VERTICAL HYDRAULIC CONDUCTIVITY OF THE UPPER HAWTHORN CONFINING ZONE

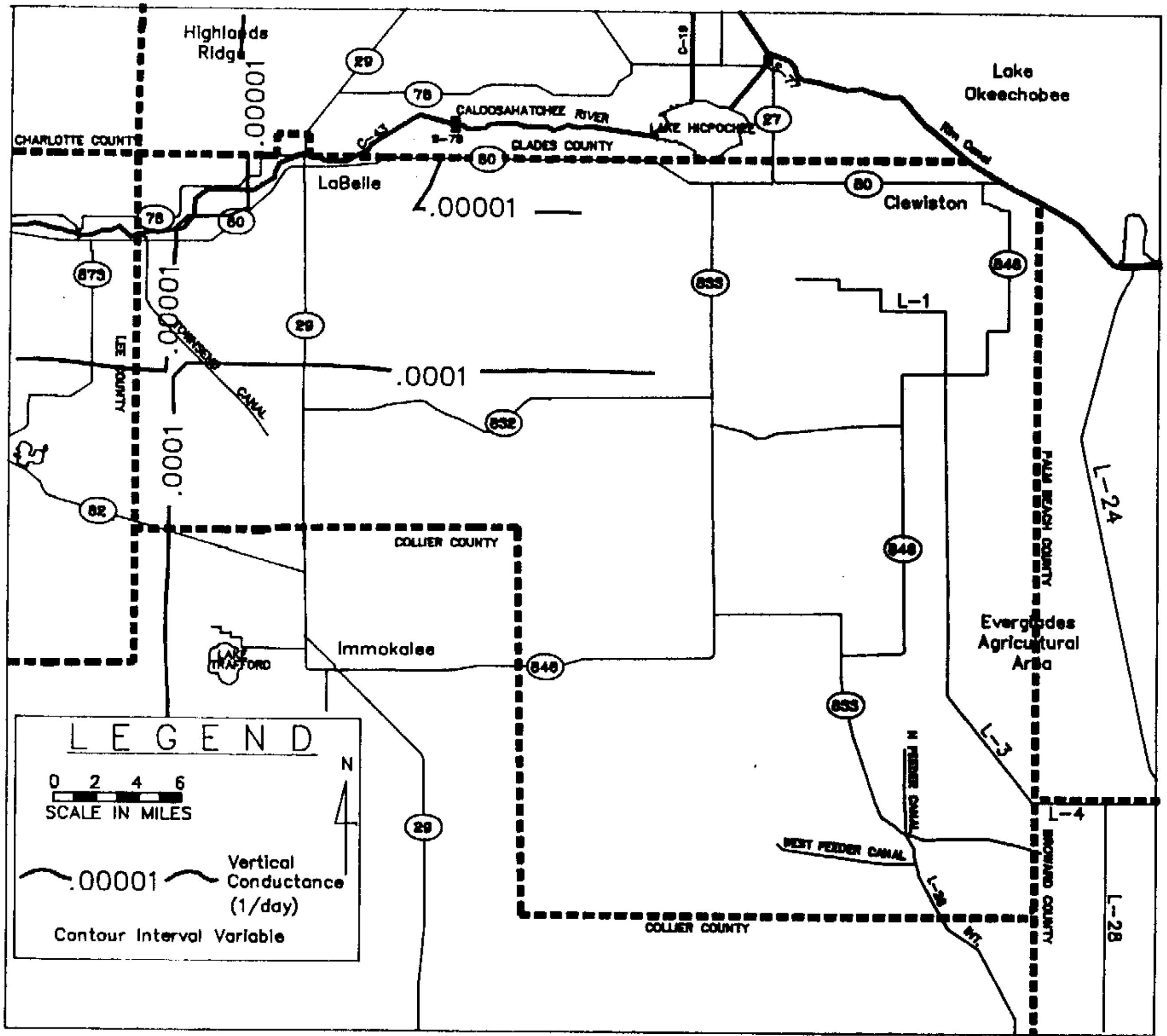

Figure A-10. Vcont, BOTTOM OF LAYER 2

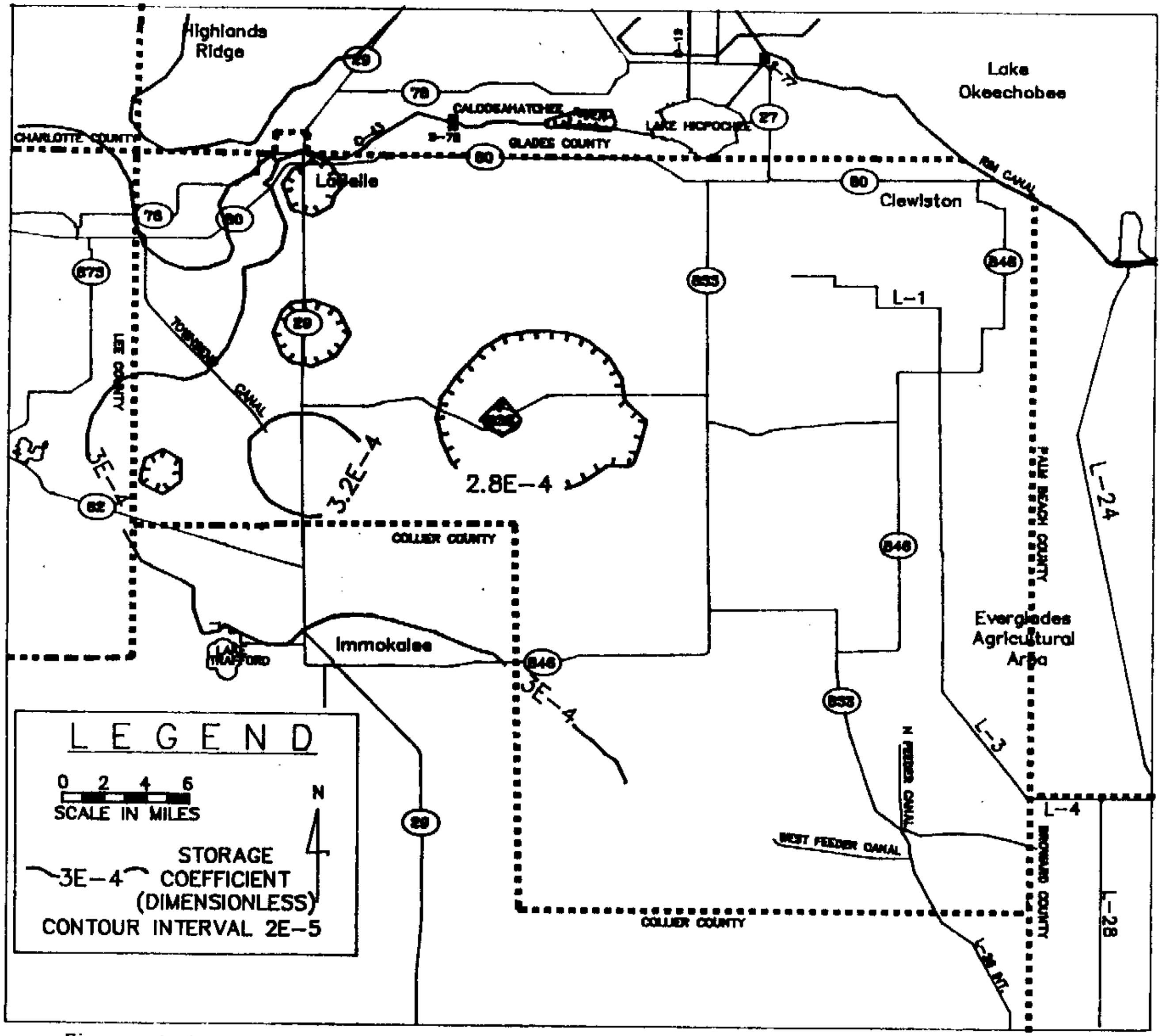

Figure A-11. STORAGE COEFFICIENT, LAYER 3 (SANDSTONE AQUIFER)

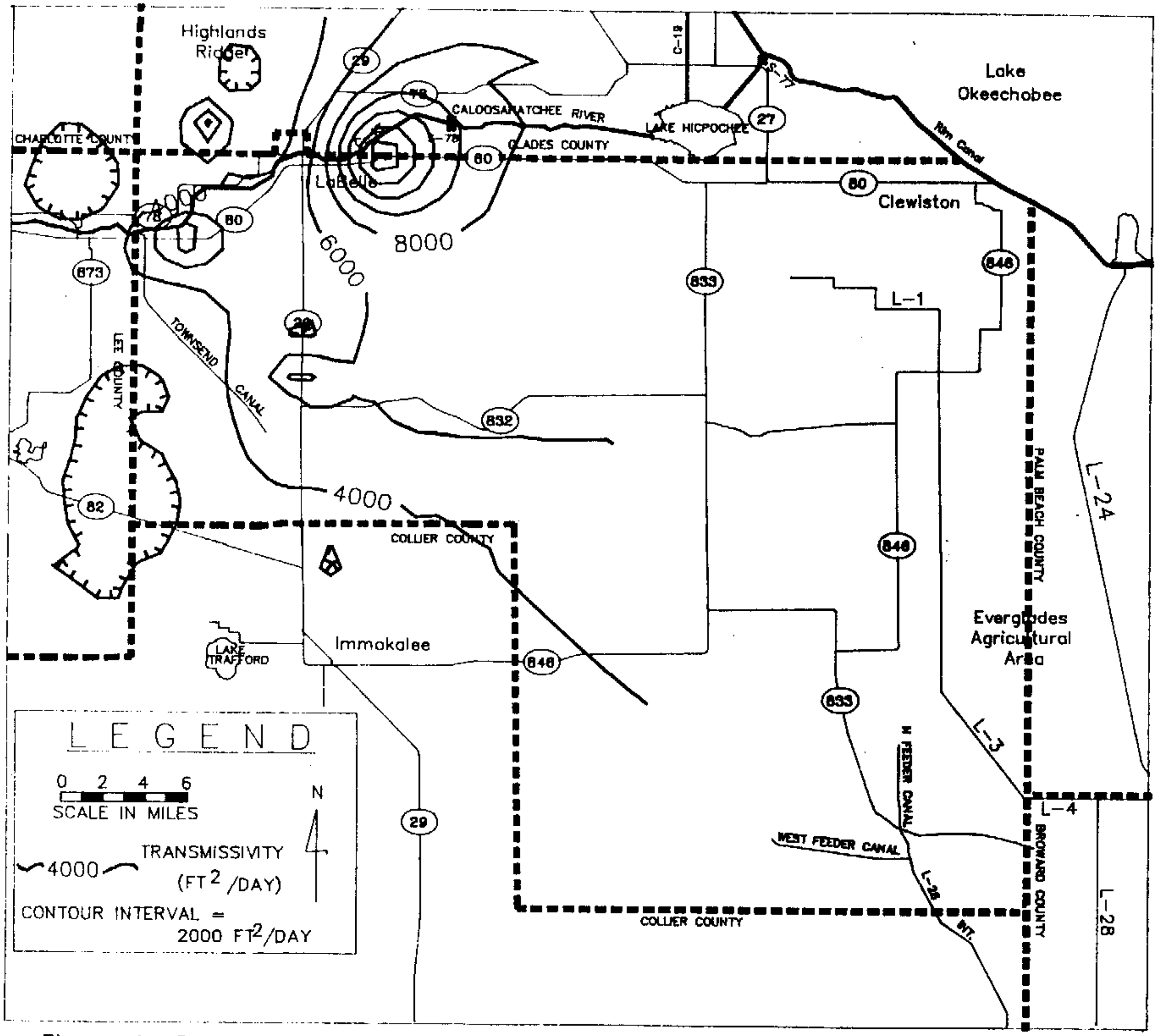

Figure A-12. TRANSMISSIVITY, LAYER 3 (SANDSTONE AQUIFER)

APPENDIX B

RIVER PACKAGE INPUT DATA

RIVER PACKAGE DATA

Layer	Row	Column	Average Stage*	River Bed Conductance**	River Bottom Elevation (ft. NGVD)
1	13	38	12.83	175.83	0
1	13	39	12.83	175.83	0
1	13	40	12.83	263.74	0
1	13	41	12.83	175.83	0
1	14	42	12.83	351.65	0
1	14	43	12.83	234.43	0
1	14	44	12.83	410.26	0
1	15	45	12.71	410.26	0
1	16	45	12.71	410.26	0
1	17	45	12.71	410.26	0
1	18	45	12.71	410.26	0
1	19	45	12.71	410.26	0
1	20	45	12.71	410.26	0
1	21	45	12.71	410.26	0
1	22	45	12.71	410.26	0
1	23	45	12.71	410.26	0
1	24	45	12.71	410.26	0
1	25	45	12.71	410.26	0
1	26	45	12.71	410.26	0
1	27	45	12.71	410.26	0
1	28	45	12.71	410.26	0
1	29	45	12.71	410.26	0
1	30	45	12.71	410.26	0
1	31	45	12.71	410.26	0
1	32	45	12.71	410.26	0
1	33	45	12.71	470.64	0
1	33	46	12.71	93.24	0
1	34	46	12.71	609.17	0
1	35	46	12.71	93.24	0
1	35	47	12.71	515.93	0
1	36	47	12.71	234.43	0
1	36	48	12.71	375.18	0
1	37	48	12.71	375.18	0
1	37	49	12.71	187.37	0
1	38	49	11.19	308.02	0
1	38	50	11.19	439.56	0
1	38	51	11.19	439.56	0
1	38	52	11.19	439.56	0

* Average monthly stage (1986-1988) used in steady state runs. Actual monthly values were use in transient runs.

** River bed conductance for each cell is calculated as the product of the average wetted perimiter of the river, the length of the river reach in a cell, and the hydraulic conductivity of the river bed; divided by the thickness of the river bed.

RIVER PACKAGE DATA

Layer	Row	Column	Average Stage*	River Bed Conductance**	River Bottom Elevation (ft. NGVD)
1	38	53	11.19	439.56	0
1	38	54	11.19	439.56	0
1	13	53	10.96	709.40	0
1	14	53	10.96	709.40	0
1	15	52	10.96	451.77	0
1	16	52	10.96	644.69	0
1	17	52	10.96	644.69	0
1	18	52	10.96	644.69	0
1	19	51	10.96	644.69	0
1	20	51	10.96	644.69	0
1	21	51	10.96	644.69	0
1	22	51	10.96	644.69	0
1	23	52	10.96	579.69	0
1	24	52	10.96	644.69	0
1	25	52	10.96	644.69	0
1	26	52	10.96	644.69	0
1	27	52	10.96	644.69	0
1	28	53	10.96	644.69	0
1	29	53	10.96	644.69	0
1	30	53	10.96	644.69	0
1	31	53	10.96	644.69	0
1	32	53	10.96	257.63	0
1	32	54	10.96	387.06	0
1	33	54	10.96	644.69	0
1	34	54	10.96	644.69	0
1	35	54	10.96	644.69	0
1	36	54	10.96	387.06	0
1	37	54	10.96	387.06	0
1	38	52	10.81	439.56	0
1	39	52	10.81	439.56	0
1	40	52	10.81	439.56	0
1	41	52	10.81	439.56	0
1	42	52	10.81	439.56	0
1	43	52	10.81	439.56	0
1	44	52	10.81	439.56	0
1	45	52	10.81	439.56	0
1	46	52	10.81	439.56	0
1	47	52	10.81	439.56	0

* Average monthly stage (1986-1988) used in steady state runs. Actual monthly values were use in transient runs.

** River bed conductance for each cell is calculated as the product of the average wetted perimiter of the river, the length of the river reach in a cell, and the hydraulic conductivity of the river bed; divided by the thickness of the river bed.

RIVER PACKAGE DATA

Layer	Row	Column	Average Stage*	River Bed Conductance**	River Bottom Elevation (ft. NGVD)
1	35	43	14.63	351.65	0
1	36	43	14.63	703.30	0
1	37	43	14.63	703.30	0
1	38	43	14.63	703.30	0
1	39	43	14.63	773.89	0
1	40	43	14.63	1353.87	0
1	41	43	14.63	234.21	0
1	41	44	14.63	351.87	0
1	42	44	14.63	644.91	0
1	43	44	14.63	177.60	0
1	43	45	14.63	579.98	0
1	44	45	14.63	351.19	0
1	44	46	14.63	644.91	0
1	45	46	14.63	175.38	0
1	45	47	14.63	468.98	0
1	46	47	14.63	644.91	0
1	47	47	14.63	66.60	0
1	47	48	14.63	586.08	0
1	40	37	14.63	515.87	0
1	40	38	14.63	644.69	0
1	40	39	14.63	644.69	0
1	40	40	14.63	644.69	0
1	40	41	14.63	644.69	0
1	40	42	14.63	7.33	0
1	11	2	3.22	2579.64	-10
1	11	3	3.22	2579.64	-10
1	11	4	3.22	2579.64	-10
1	11	5	3.22	2597.64	-10
1	11	6	3.22	2814.96	-10
1	11	7	3.22	2499.72	-10
1	11	8	3.22	2353.20	-10
1	11	9	3.22	1875.90	-10
1	10	9	3.22	2579.64	-10
1	9	9	3.22	710.40	-10
1	9	10	3.22	2814.96	-10
1	9	11	3.22	2353.20	-10
1	9	12	3.22	2814.96	-10
1	9	13	3.22	1172.16	-10

* Average monthly stage (1986-1988) used in steady state runs. Actual monthly values were use in transient runs.

** River bed conductance for each cell is calculated as the product of the average wetted perimiter of the river, the length of the river reach in a cell, and the hydraulic conductivity of the river bed; divided by the thickness of the river bed.

RIVER PACKAGE DATA

Layer	Row	Column	Average Stage*	River Bed Conductance**	River Bottom Elevation (ft. NGVD)
1	8	13	3.22	2814.96	-10
1	8	14	3.22	936.84	-10
1	7	14	3.22	140.74	-10
1	7	15	3.22	1875.90	-10
1	8	15	3.22	710.40	-10
1	8	16	3.22	2579.64	-10
1	7	17	3.22	2353.20	-10
1	7	18	3.22	1875.90	-10
1	6	18	3.22	936.84	-10
1	6	19	3.22	2814.96	-10
1	6	20	3.22	2579.64	-10
1	6	21	3.22	2353.20	-10
1	6	22	11.21	2353.20	-5
1	6	23	11.21	2579.64	-5
1	6	24	11.21	2353.20	-5
1	6	25	11.21	2353.20	-5
1	6	26	11.21	2579.64	-5
1	6	27	11.21	2579.64	-5
1	6	28	11.21	2353.20	-5
1	6	29	11.21	2353.20	-5
1	6	30	11.21	2353.20	-5
1	6	31	11.21	2353.20	-5
1	6	32	11.21	2353.20	-5
1	6	33	11.21	2353.20	-5
1	6	34	11.21	2353.20	-5
1	5	33	11.21	2353.20	-5
1	5	34	11.21	2353.20	-5
1	5	35	11.21	2353.20	-5
1	2	33	11.21	2353.32	-5
1	3	33	11.21	2353.32	-5
1	4	33	11.21	2353.32	-5
1	5	33	11.21	2344.32	-5
1	4	35	11.21	2353.20	-5
1	4	36	11.21	444.00	-5
1	3	36	11.21	281.50	-5
1	12	7	3.63	351.65	-5
1	13	7	3.63	351.65	-4
1	14	7	3.63	470.64	-3

* Average monthly stage (1986-1988) used in steady state runs. Actual monthly values were use in transient runs.

** River bed conductance for each cell is calculated as the product of the average wetted perimiter of the river, the length of the river reach in a cell, and the hydraulic conductivity of the river bed; divided by the thickness of the river bed.

RIVER PACKAGE DATA

Layer	Row	Column	Average Stage*	River Bed Conductance**	River Bottom Elevation (ft. NGVD)
1	15	7	3.63	2353.20	-2
1	15	8	3.63	234.43	-1
1	16	8	3.63	218.50	0
1	16	9	3.63	328.56	1
1	17	9	3.63	328.56	2
1	17	10	3.63	328.56	3
1	18	10	3.63	284.16	4
1	18	11	3.63	375.18	5
1	19	11	3.63	284.16	6
1	19	12	3.63	328.56	7
1	20	12	3.63	375.18	8
1	20	13	3.63	239.76	9
1	31	10	19.96	4107.00	10
1	31	11	19.96	2.55E+06	10
1	32	10	19.96	8.14E+06	10
1	32	11	19.96	2.11E+07	10
1	32	12	19.96	2.89E+07	10
1	33	11	19.96	2.11E+07	10
1	33	12	19.96	77478.00	10

* Average monthly stage (1986-1988) used in steady state runs. Actual monthly values were use in transient runs.

** River bed conductance for each cell is calculated as the product of the average wetted perimiter of the river, the length of the river reach in a cell, and the hydraulic conductivity of the river bed; divided by the thickness of the river bed.

APPENDIX C

MAPS OF MONTHLY RAINFALL

LIST OF FIGURES - APPENDIX C

LIST OF FIGURES - APPENDIX C
(CONTINUED)

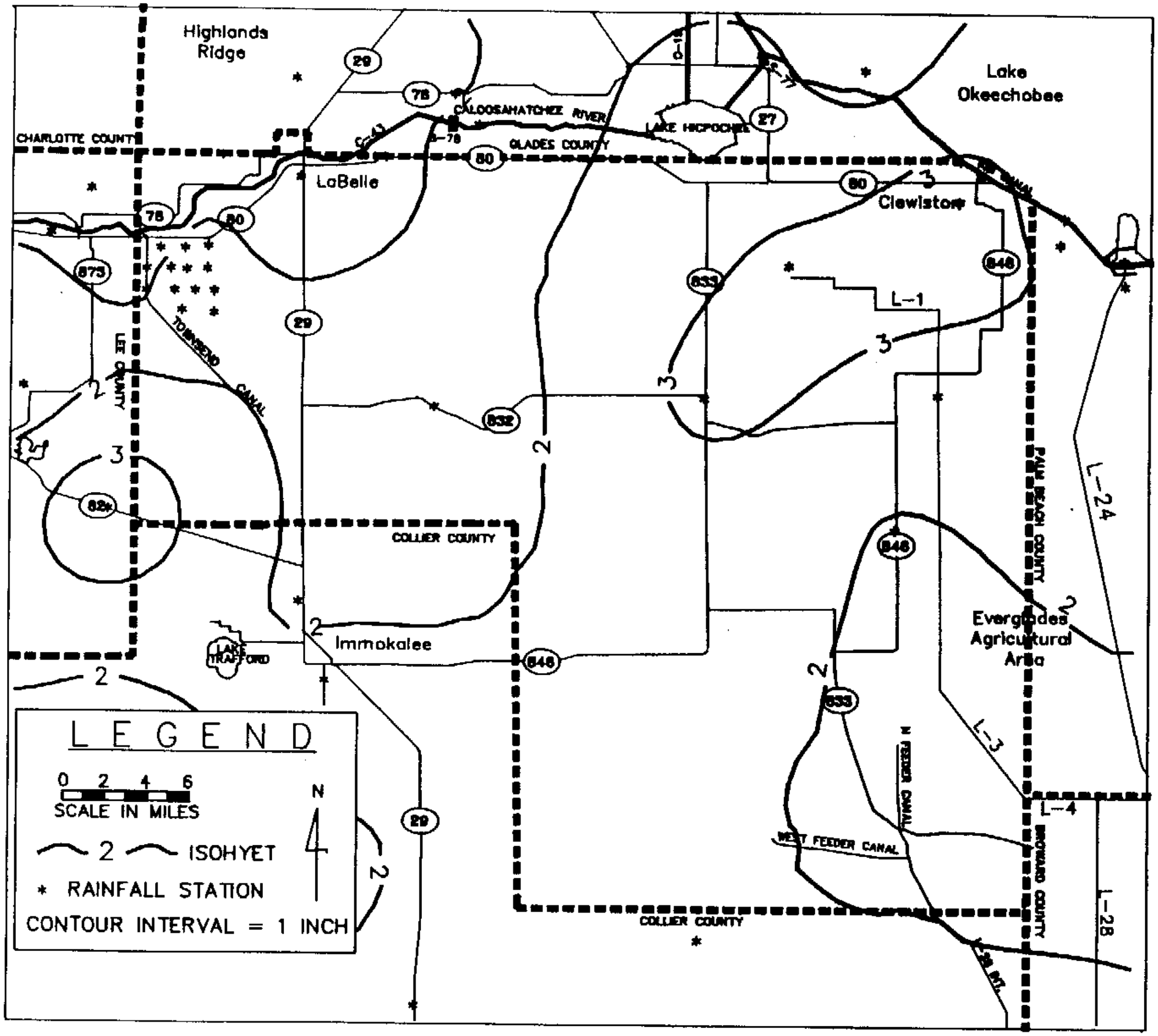

Figure C-1. RAINFALL, JANUARY 1986

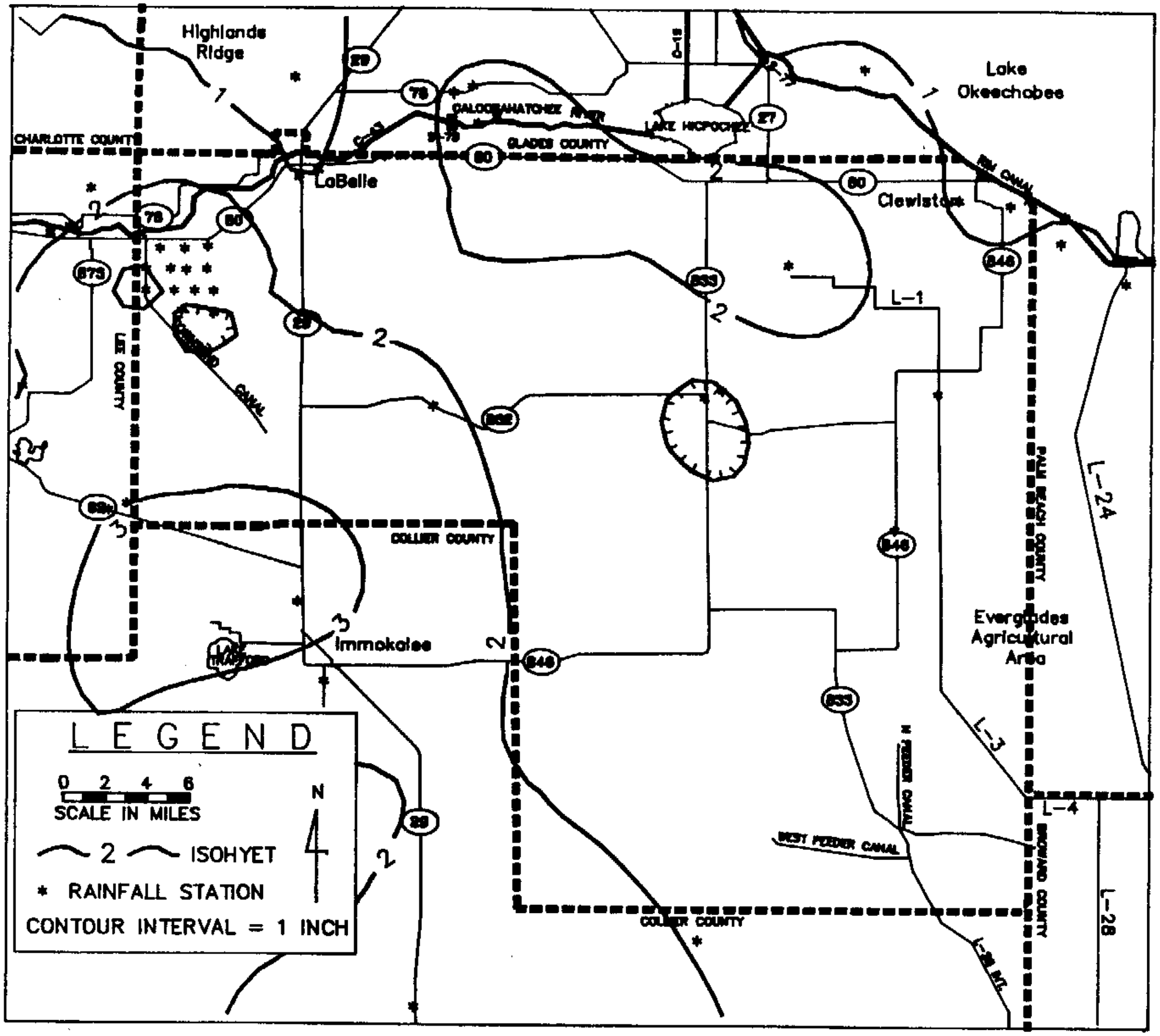

Figure C-2. RAINFALL, FEBRUARY 1986

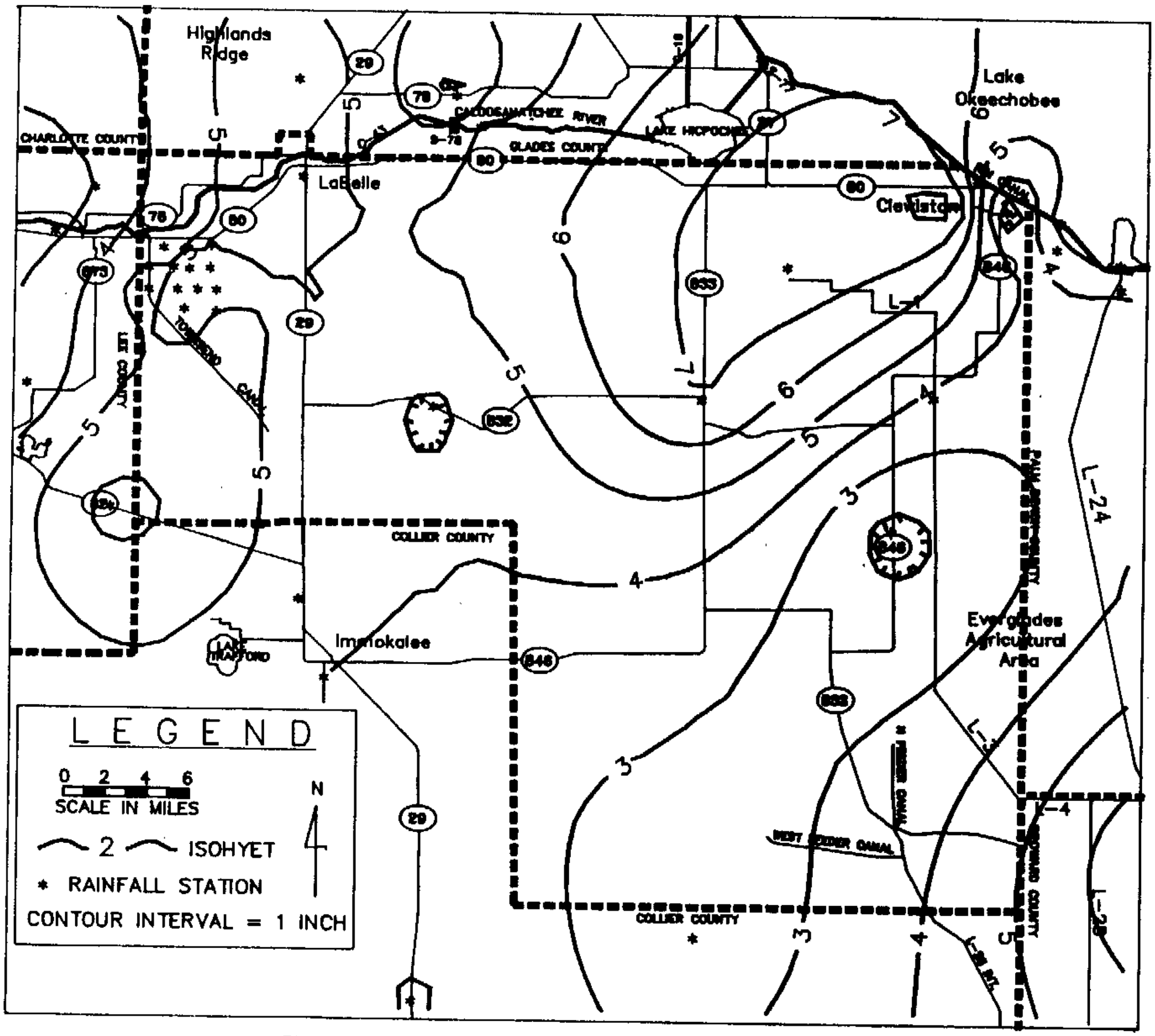

Figure C-3. RAINFALL, MARCH 1986

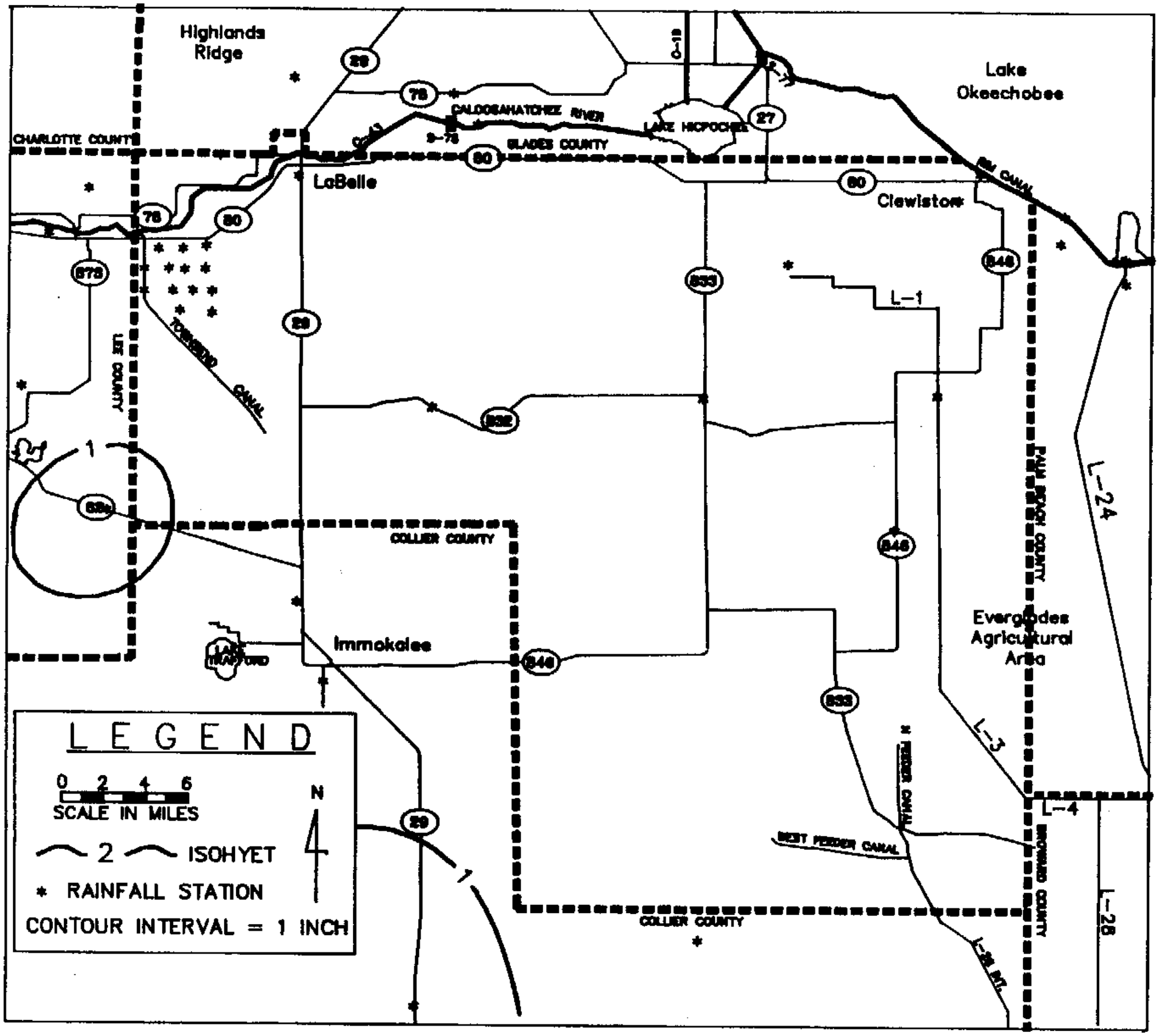

Figure C-4. RAINFALL, APRIL 1986

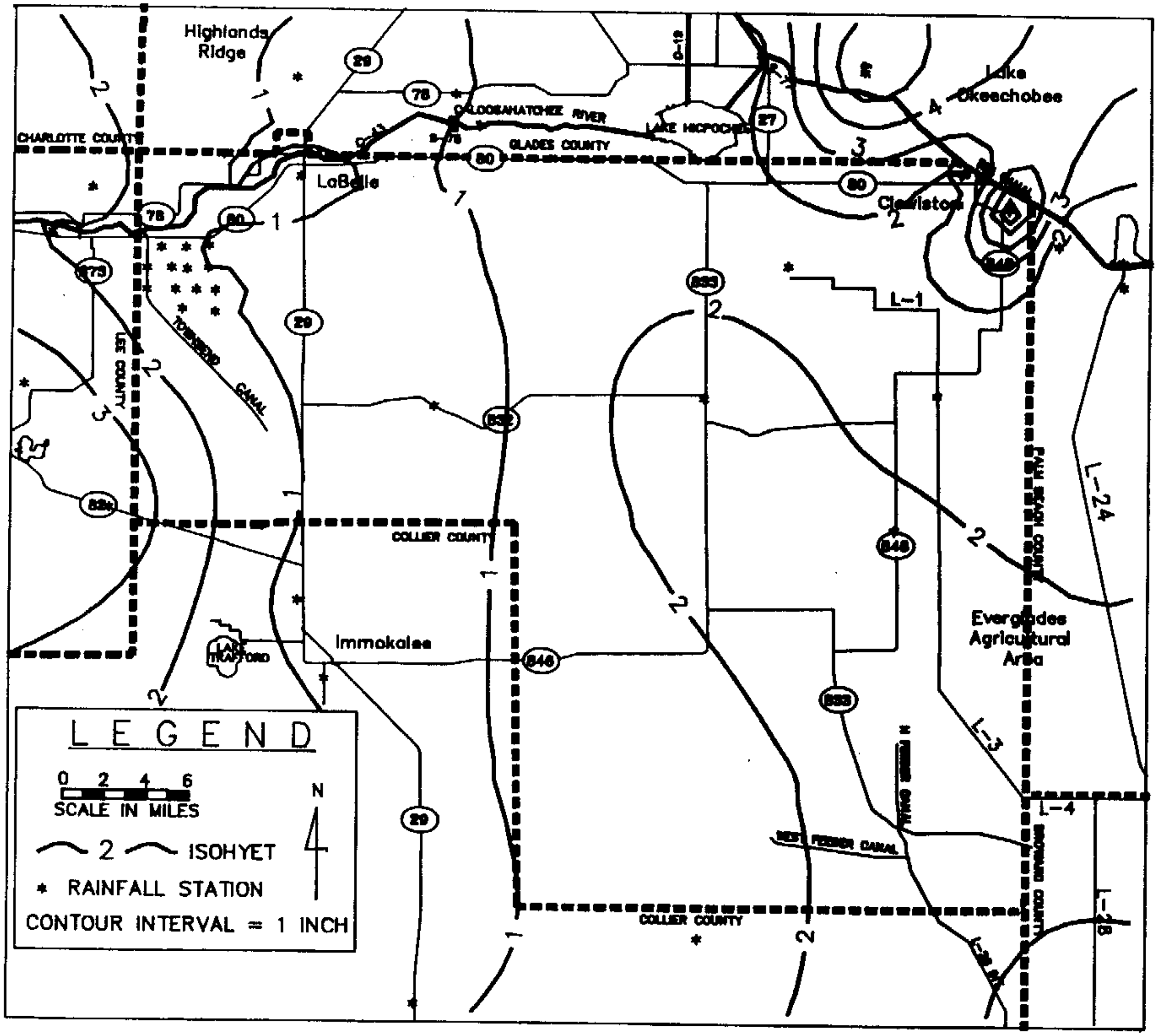

Figure C-5. RAINFALL, MAY 1986

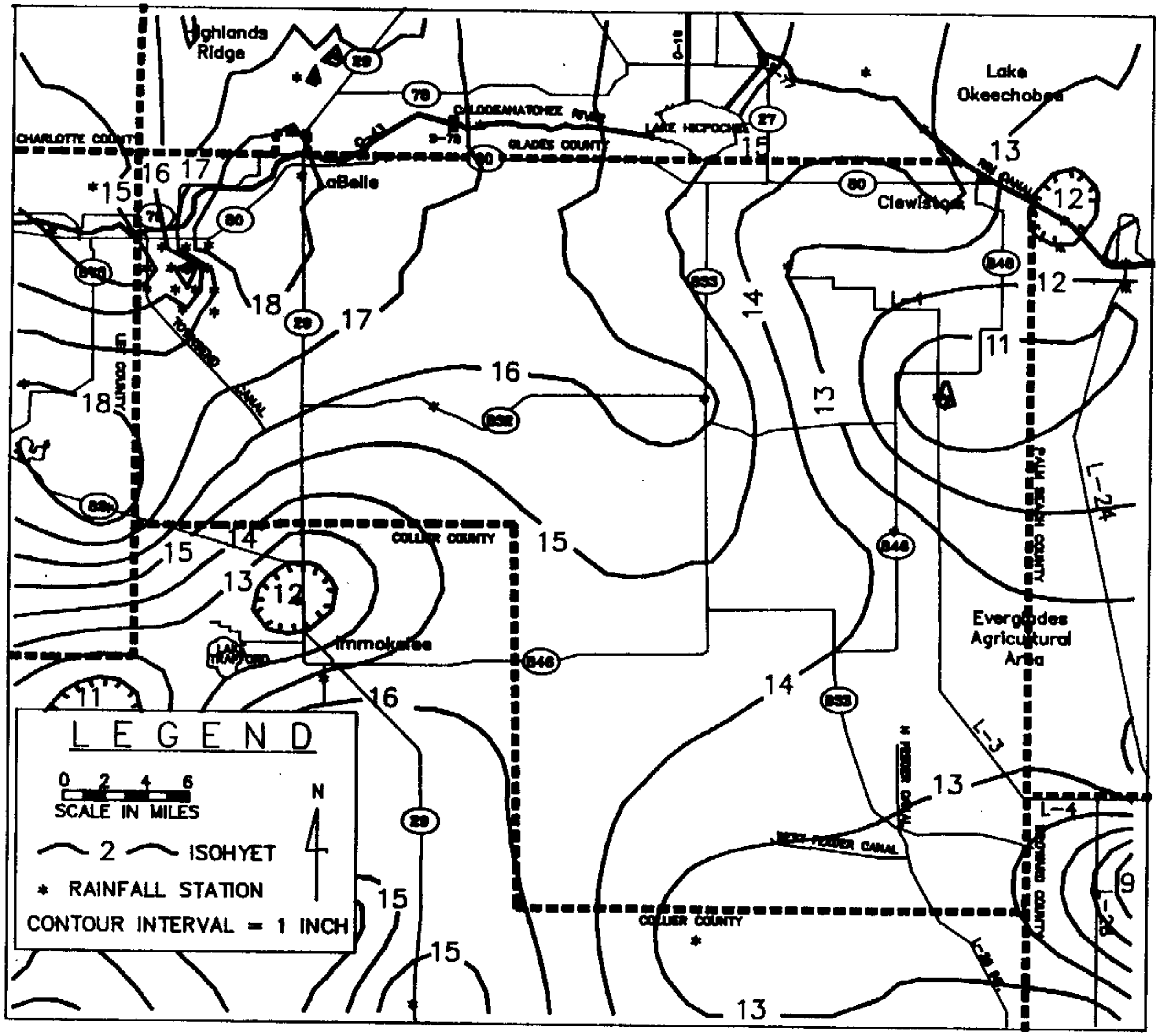

Figure C-6. RAINFALL, JUNE 1986

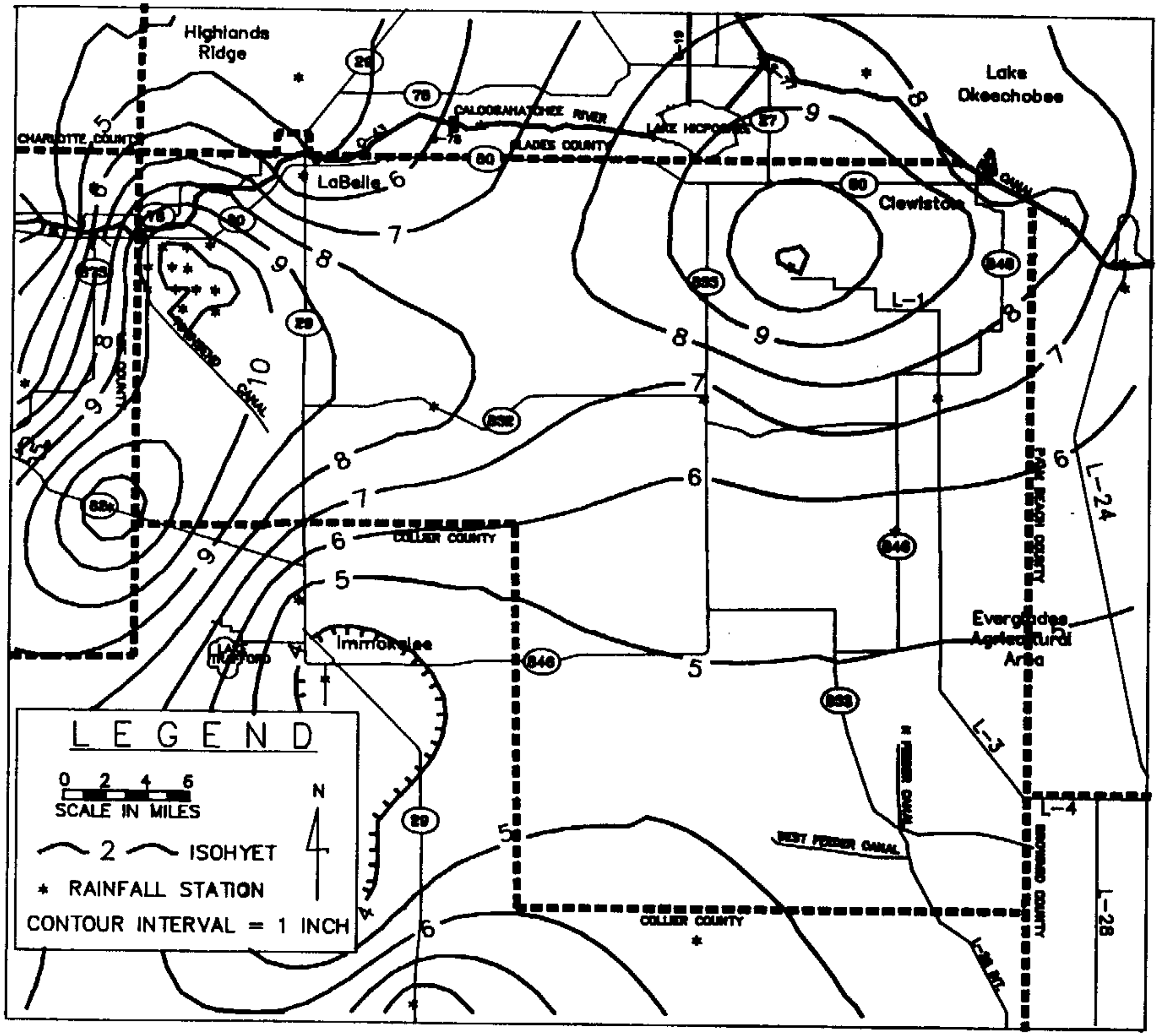

Figure C-7. RAINFALL, JULY 1986

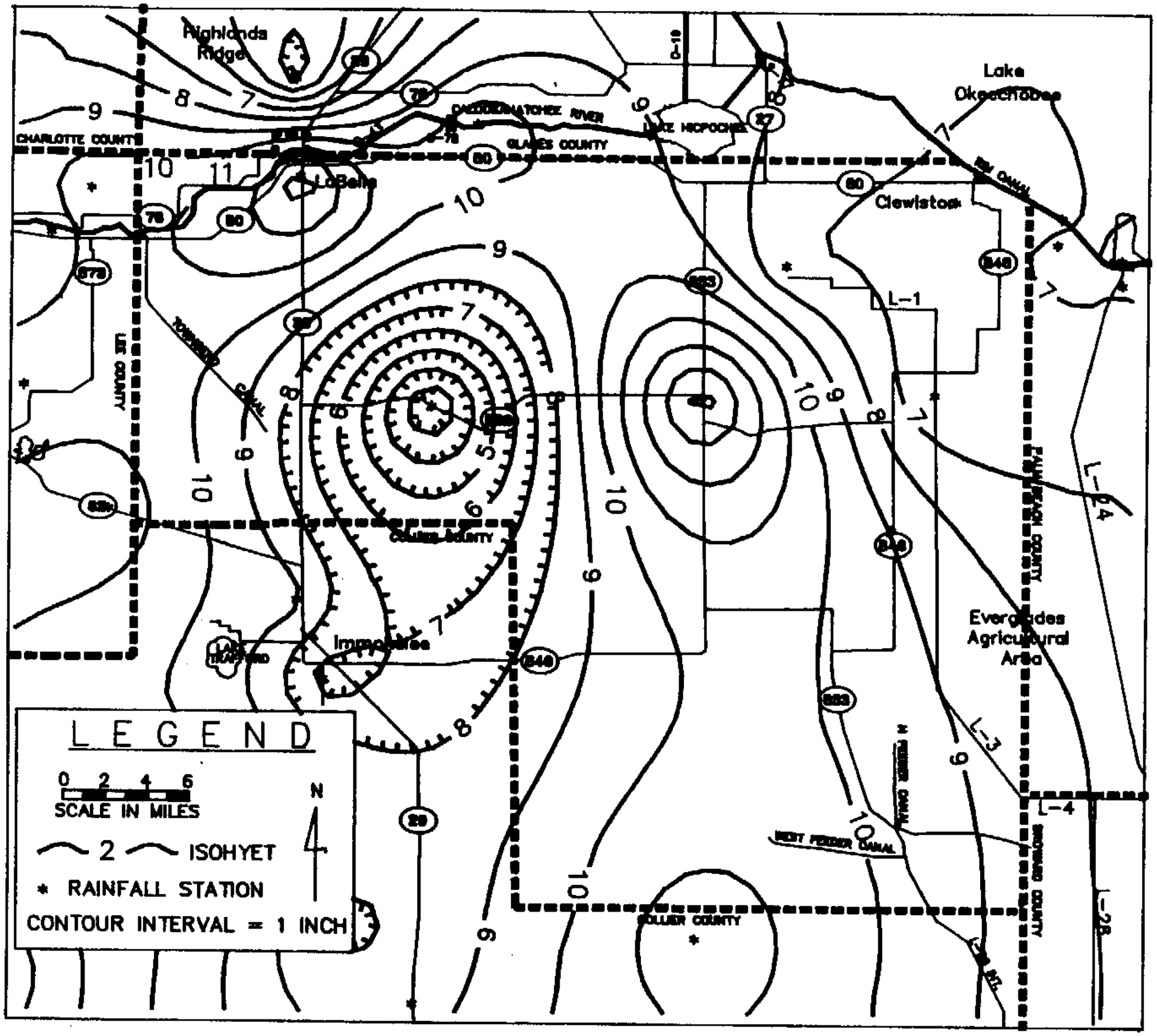

Figure C-8. RAINFALL, AUGUST 1986

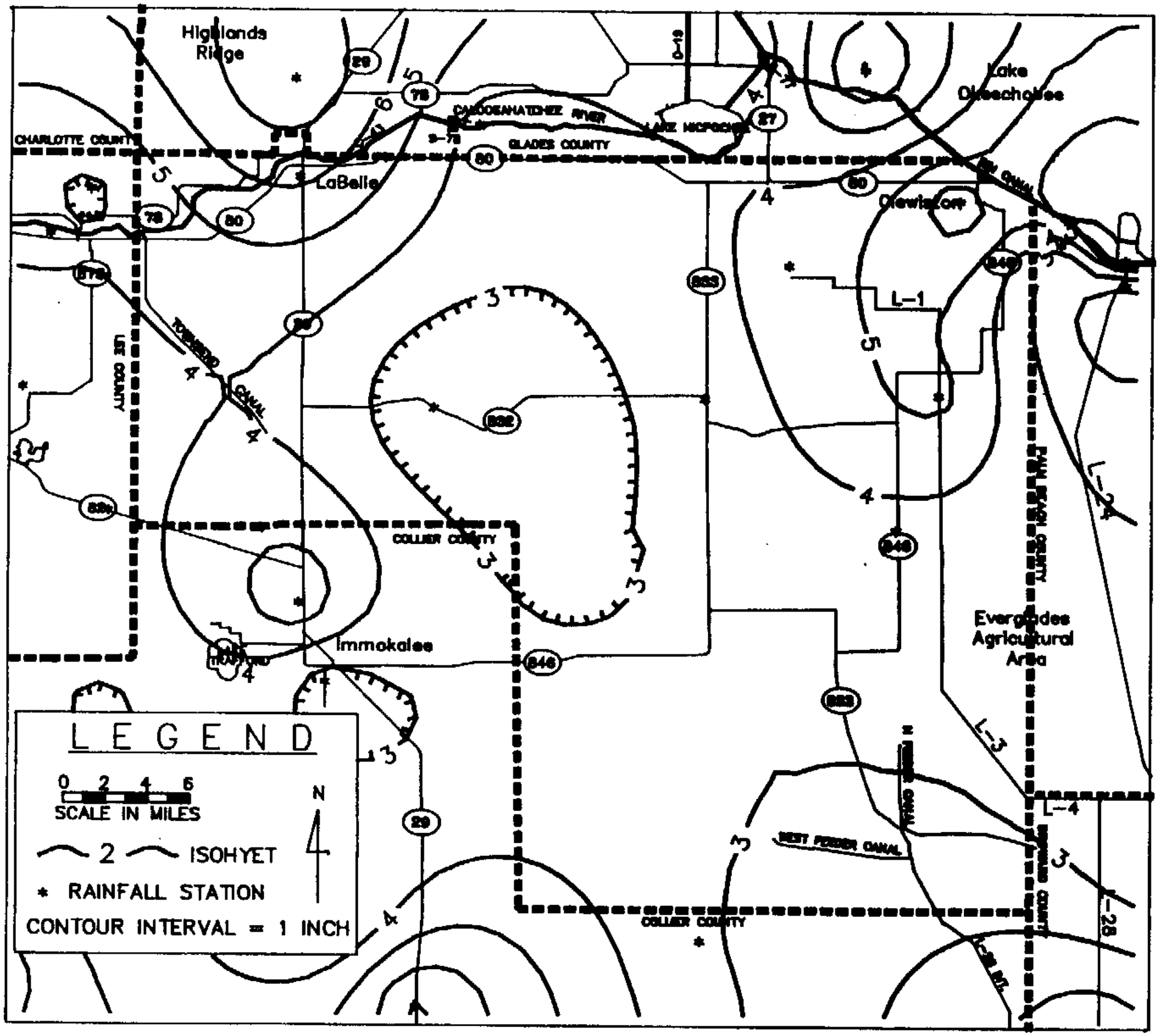

Figure C-9. RAINFALL, SEPTEMBER 1986

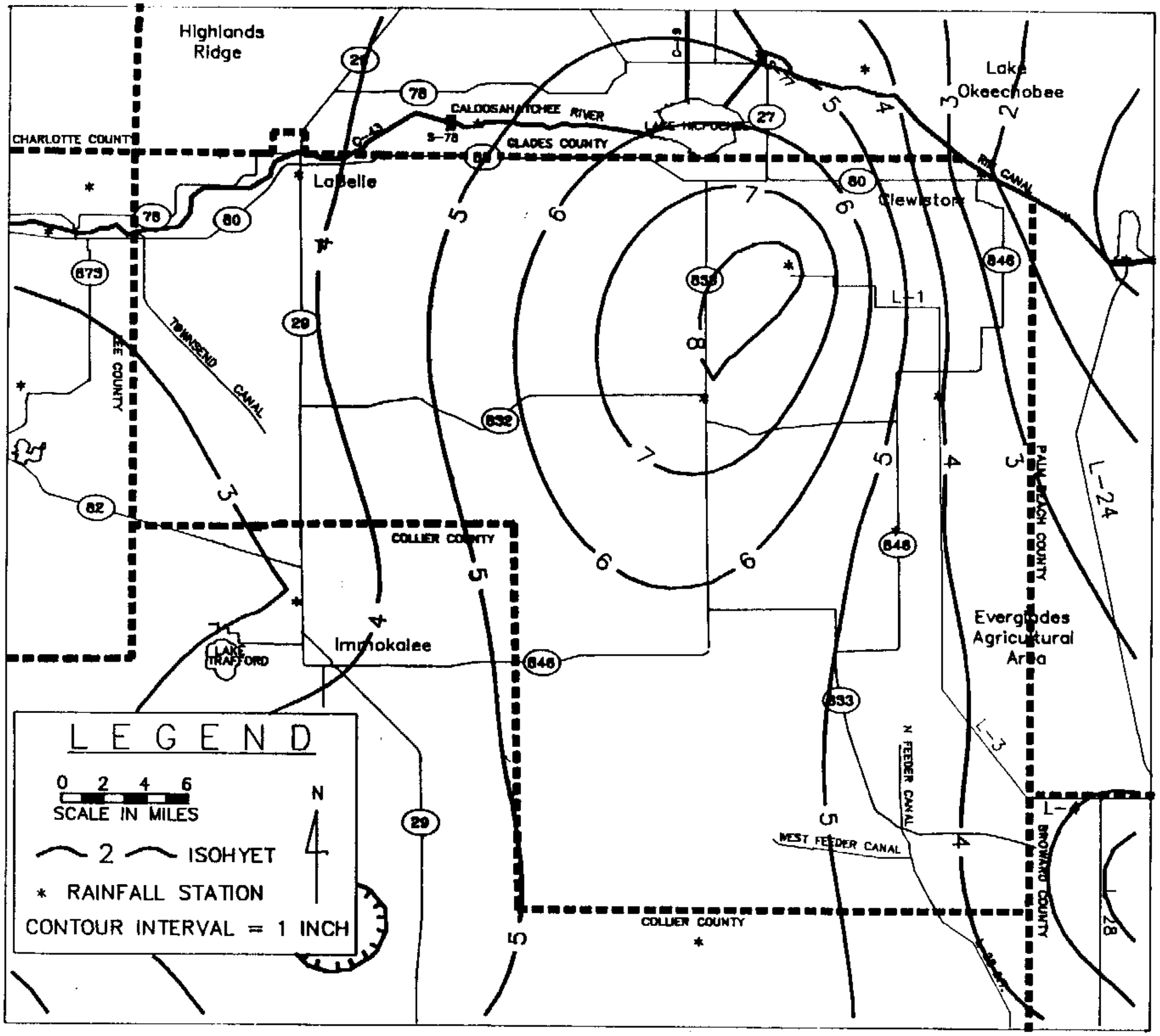

Figure C-10. RAINFALL, OCTOBER 1986

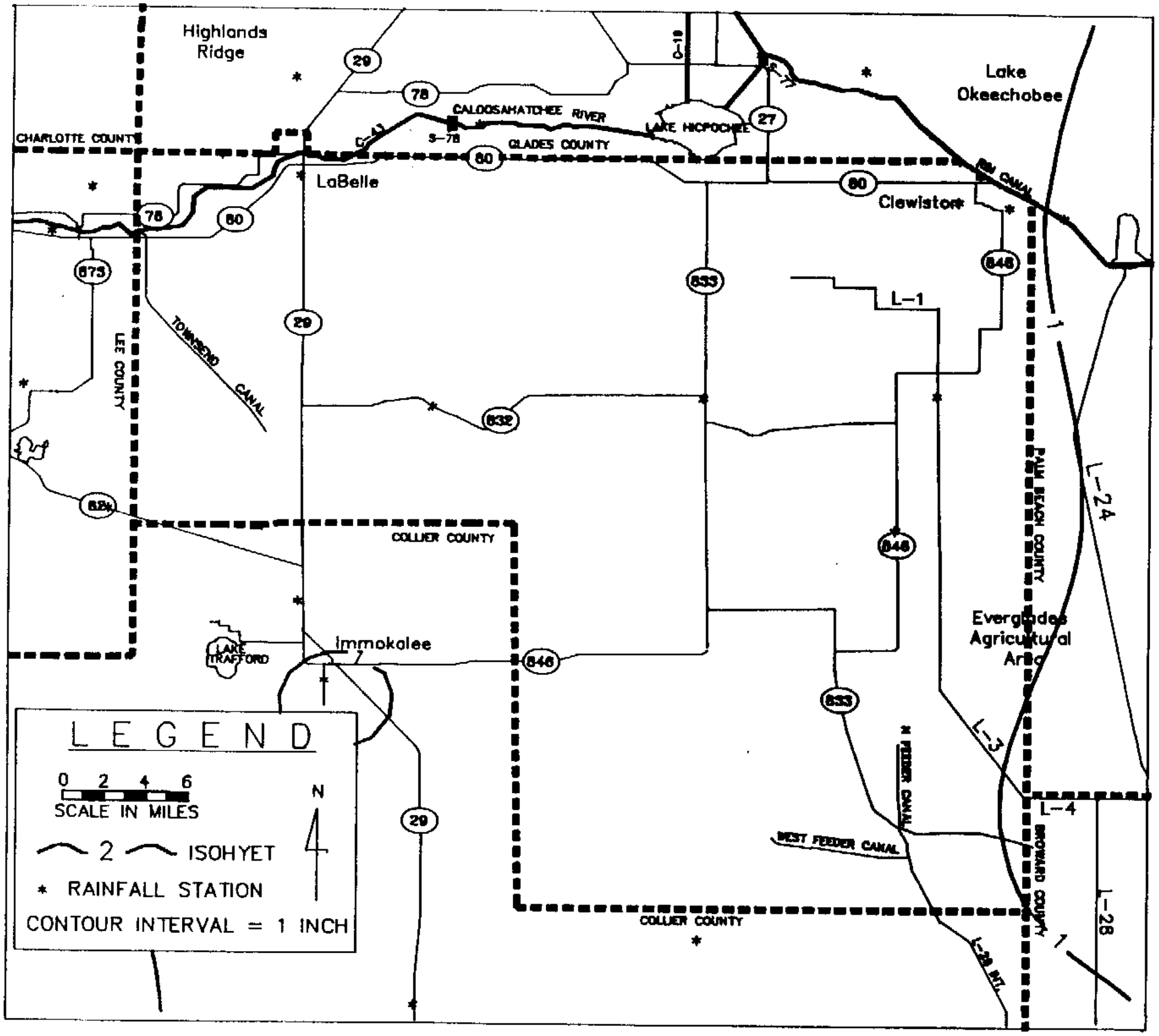

Figure C-11. RAINFALL, NOVEMBER 1986

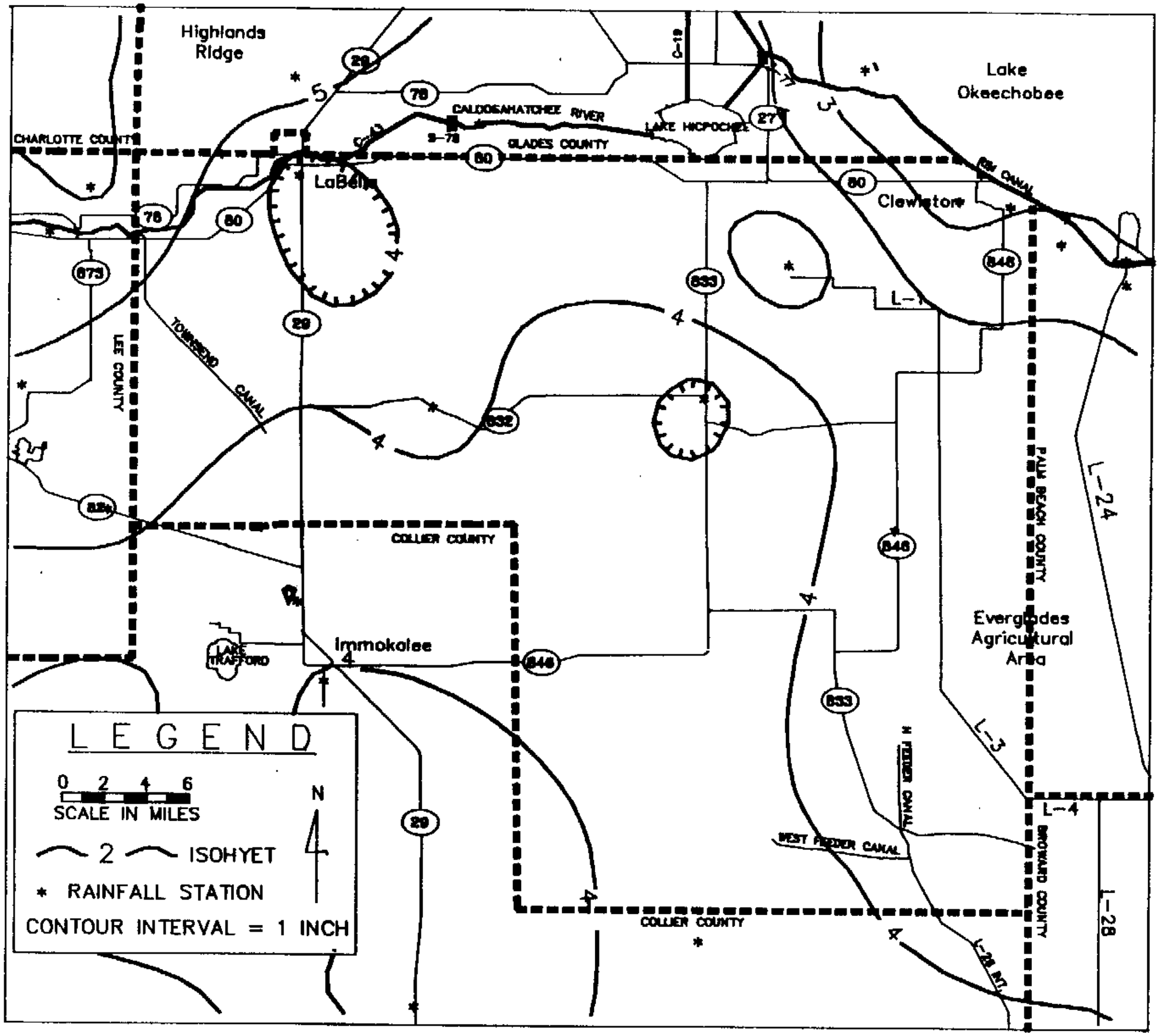

Figure C-12. RAINFALL, DECEMBER 1986

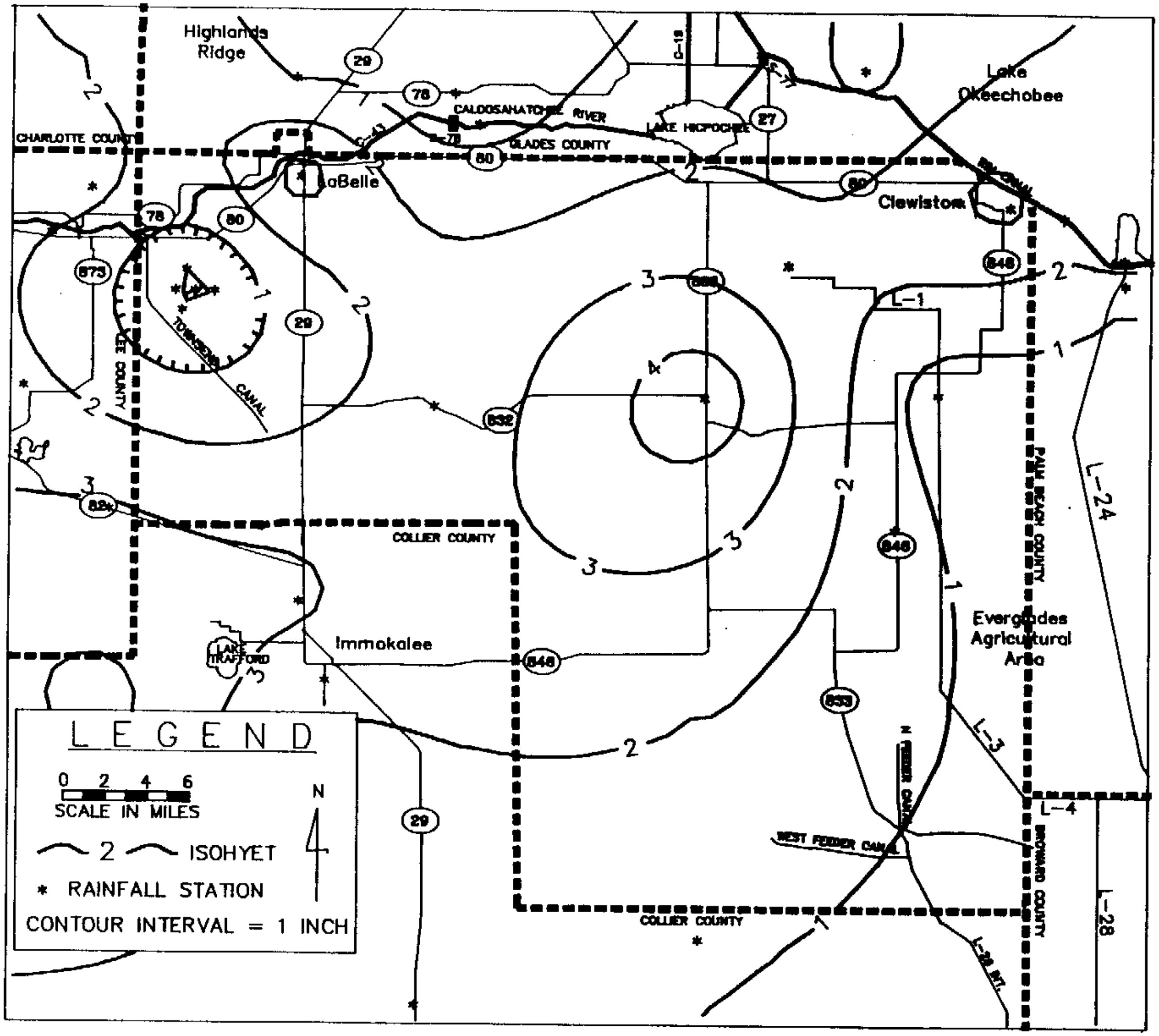

Figure C-13. RAINFALL, JANUARY 1987

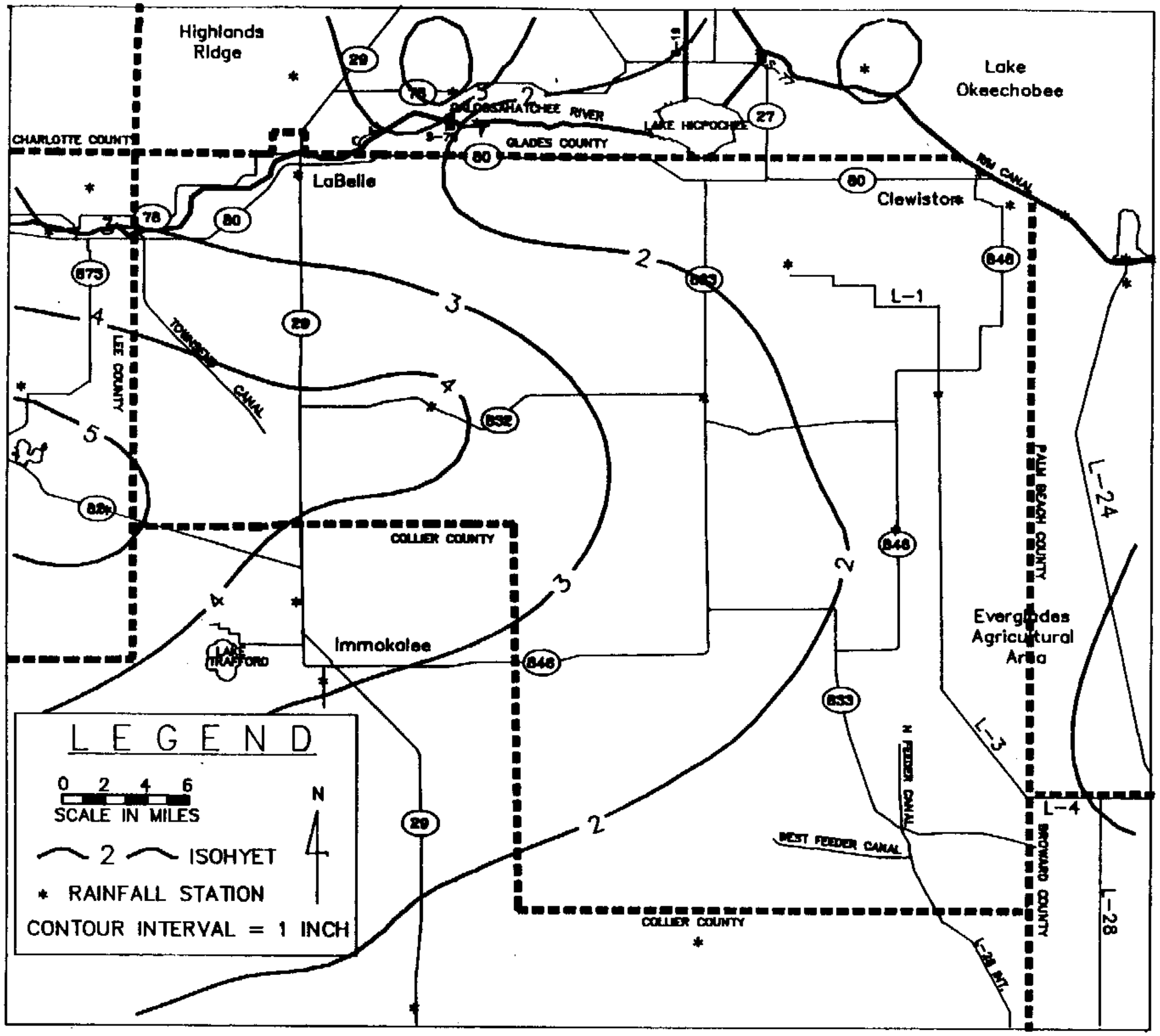

Figure C-14. RAINFALL, FEBRUARY 1987

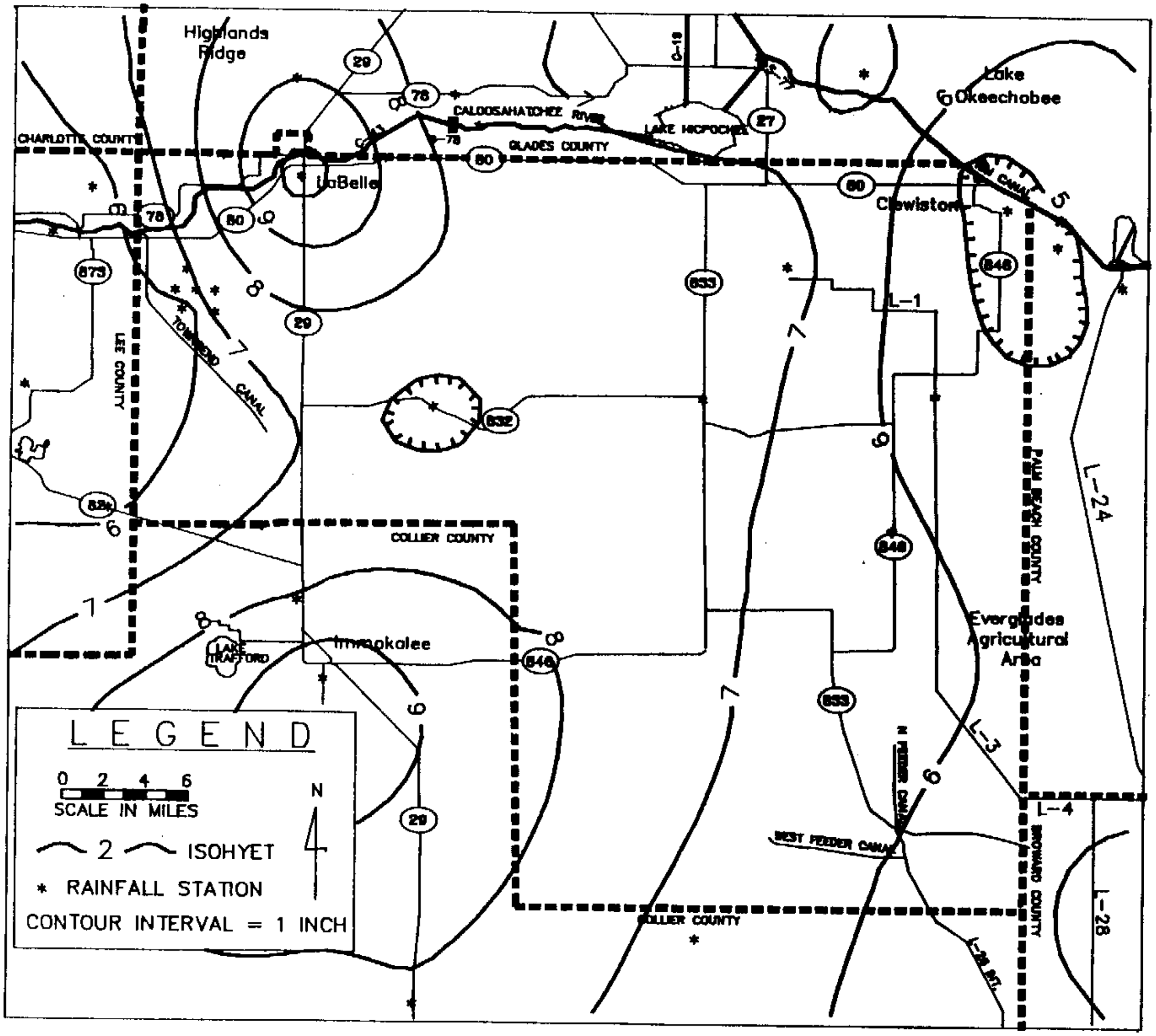

Figure C-15. RAINFALL, MARCH 1987

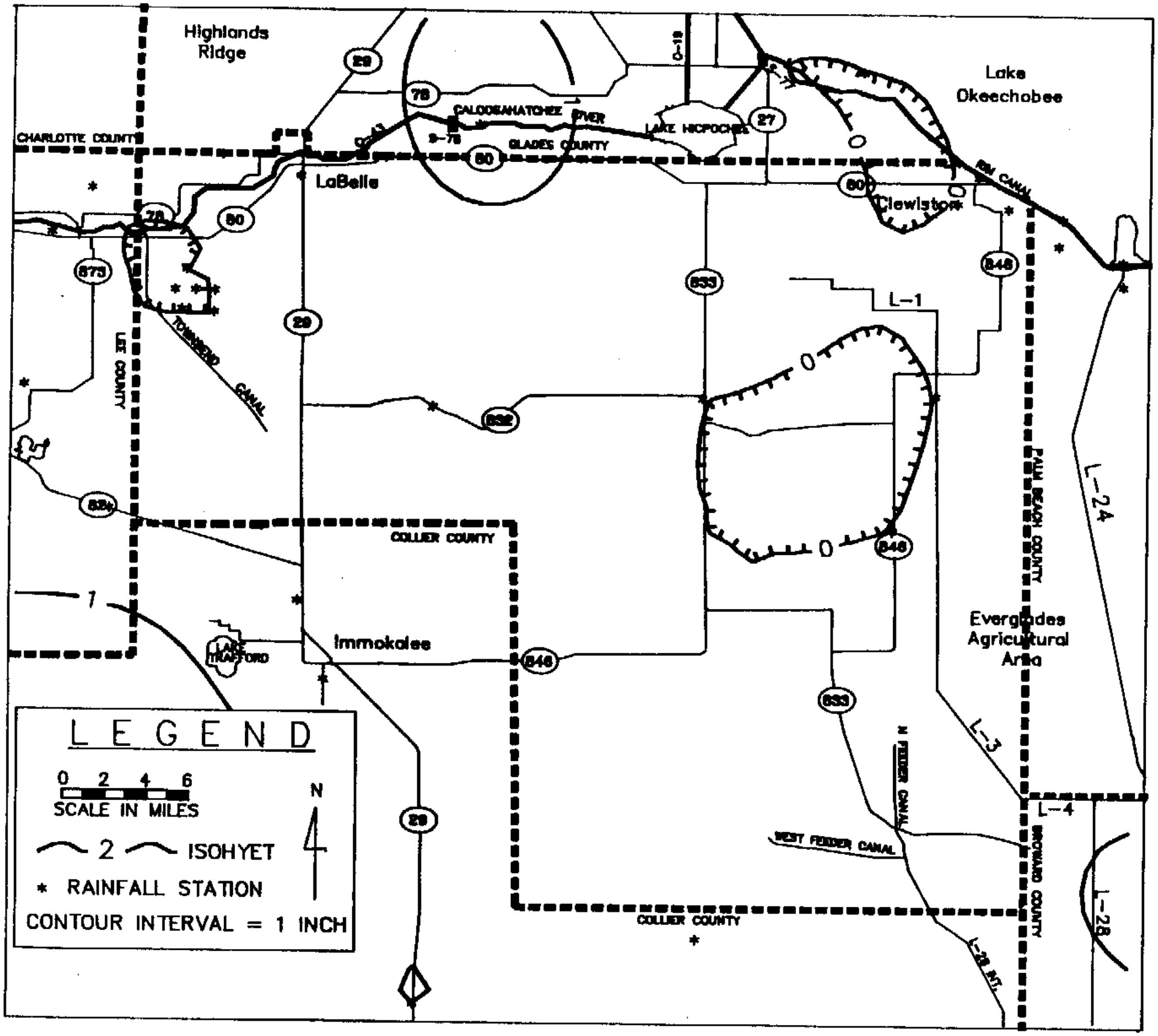

Figure C-16. RAINFALL, APRIL 1987

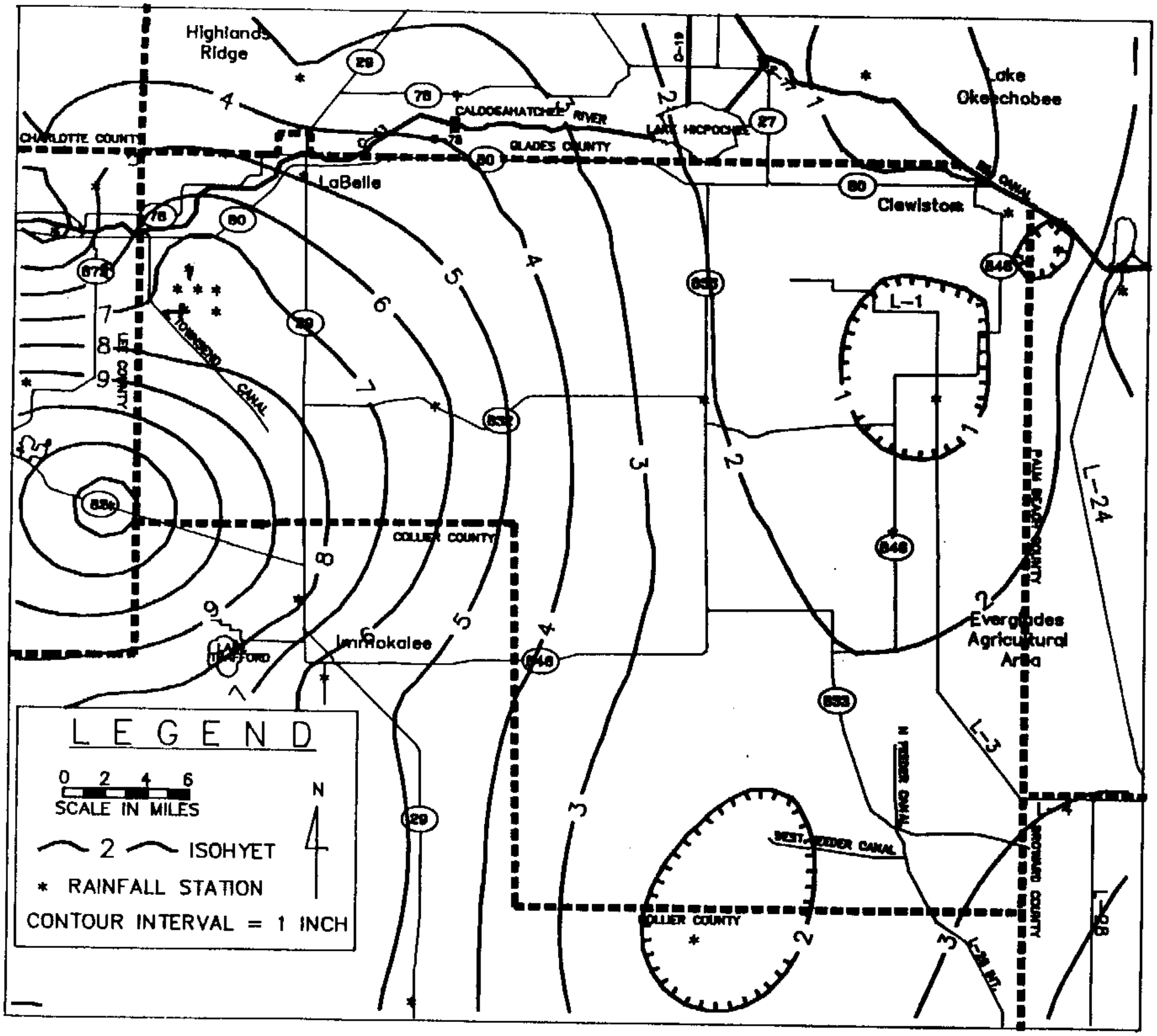

Figure C-17. RAINFALL, MAY 1987

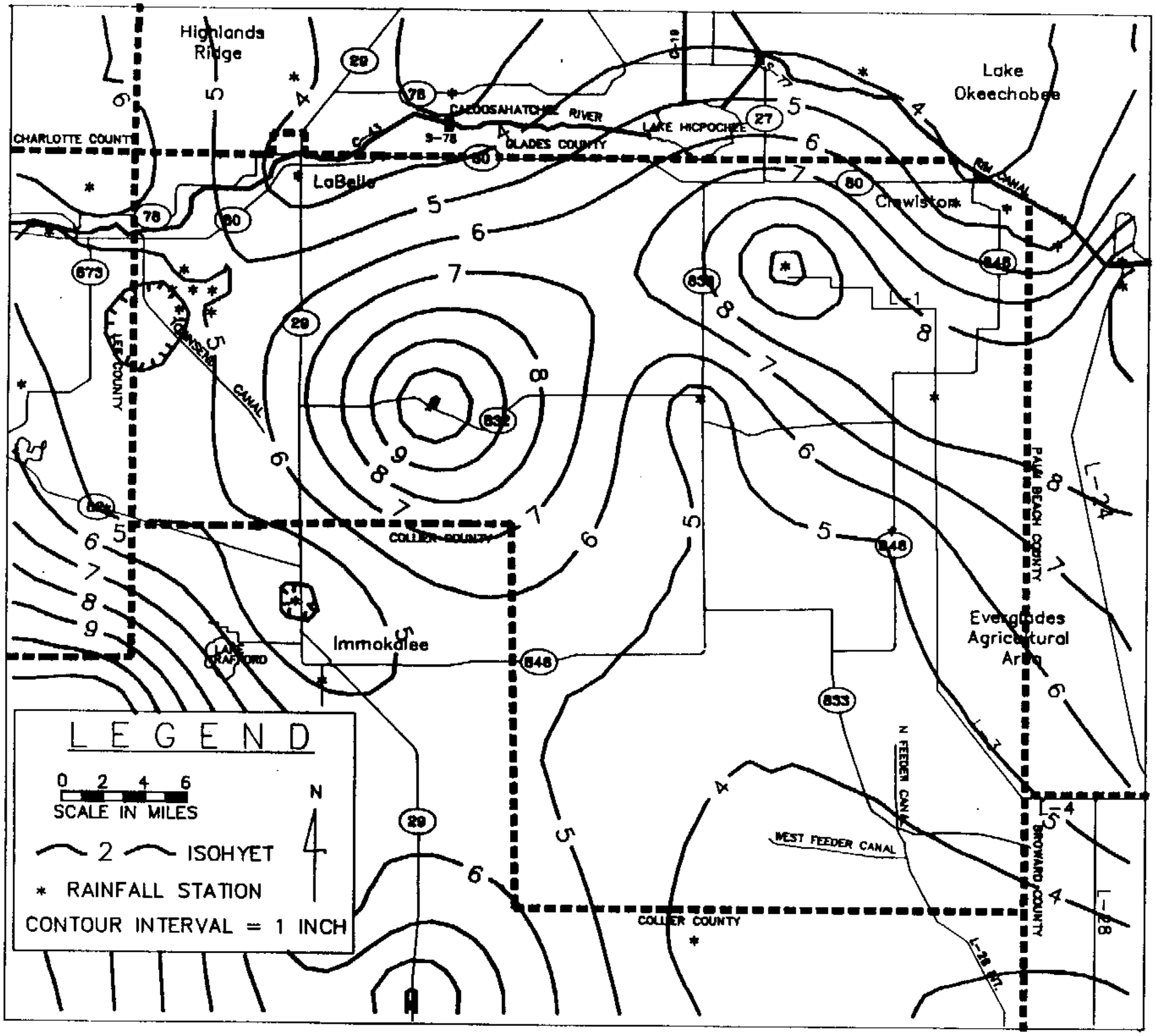

Figure C-18. RAINFALL, JUNE 1987

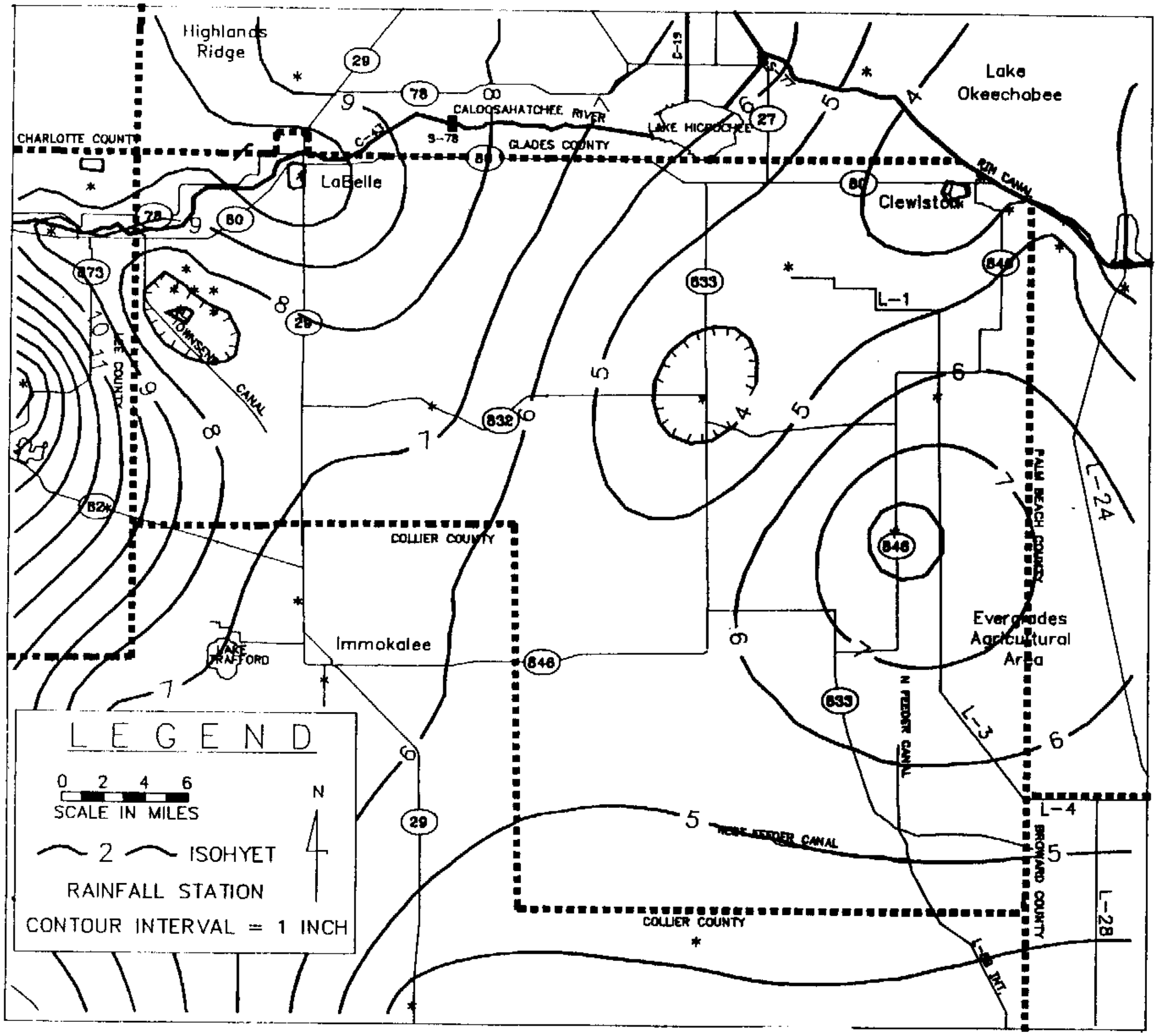

Figure C-19. RAINFALL, JULY 1987

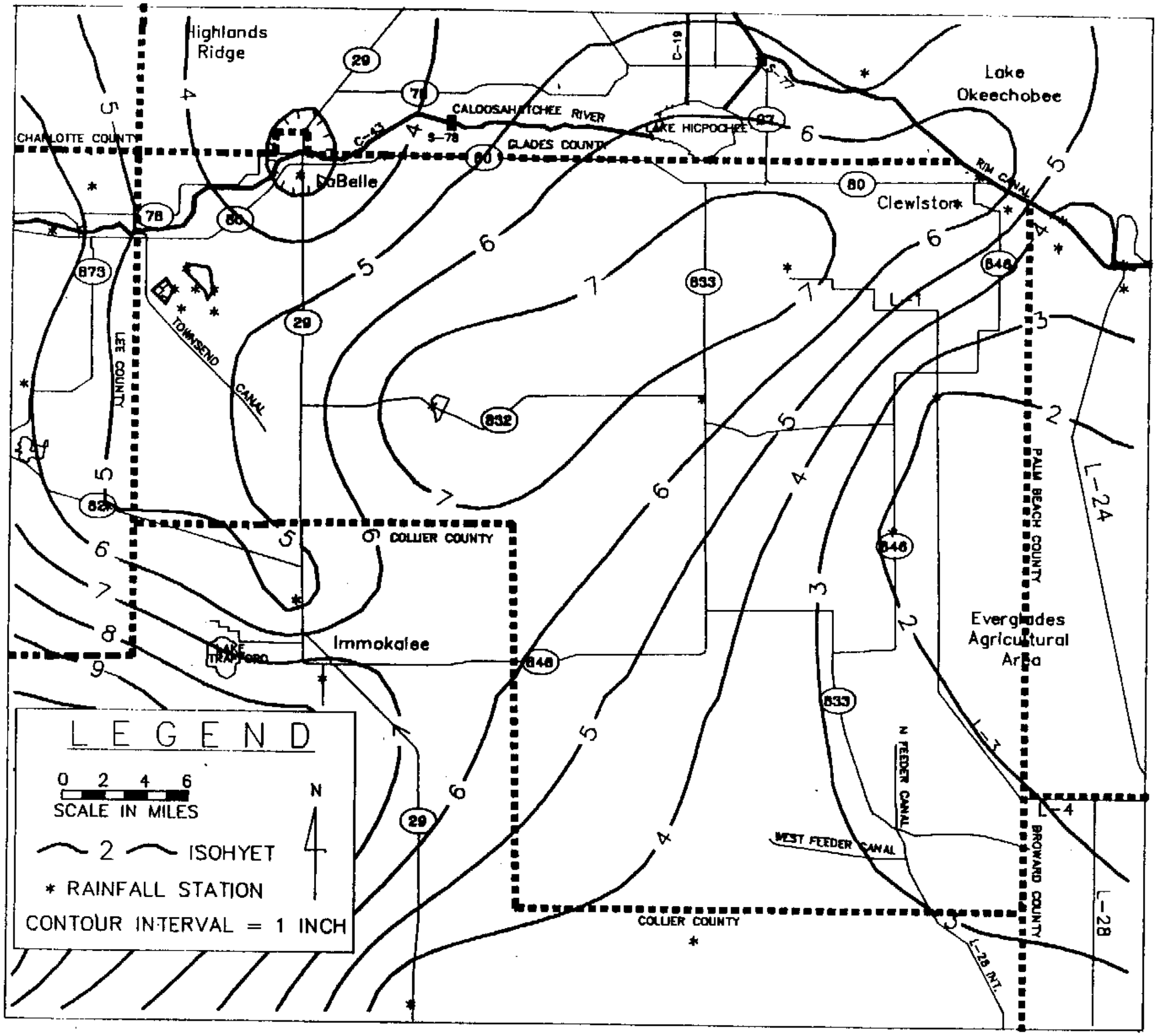

Figure C-20. RAINFALL, AUGUST 1987

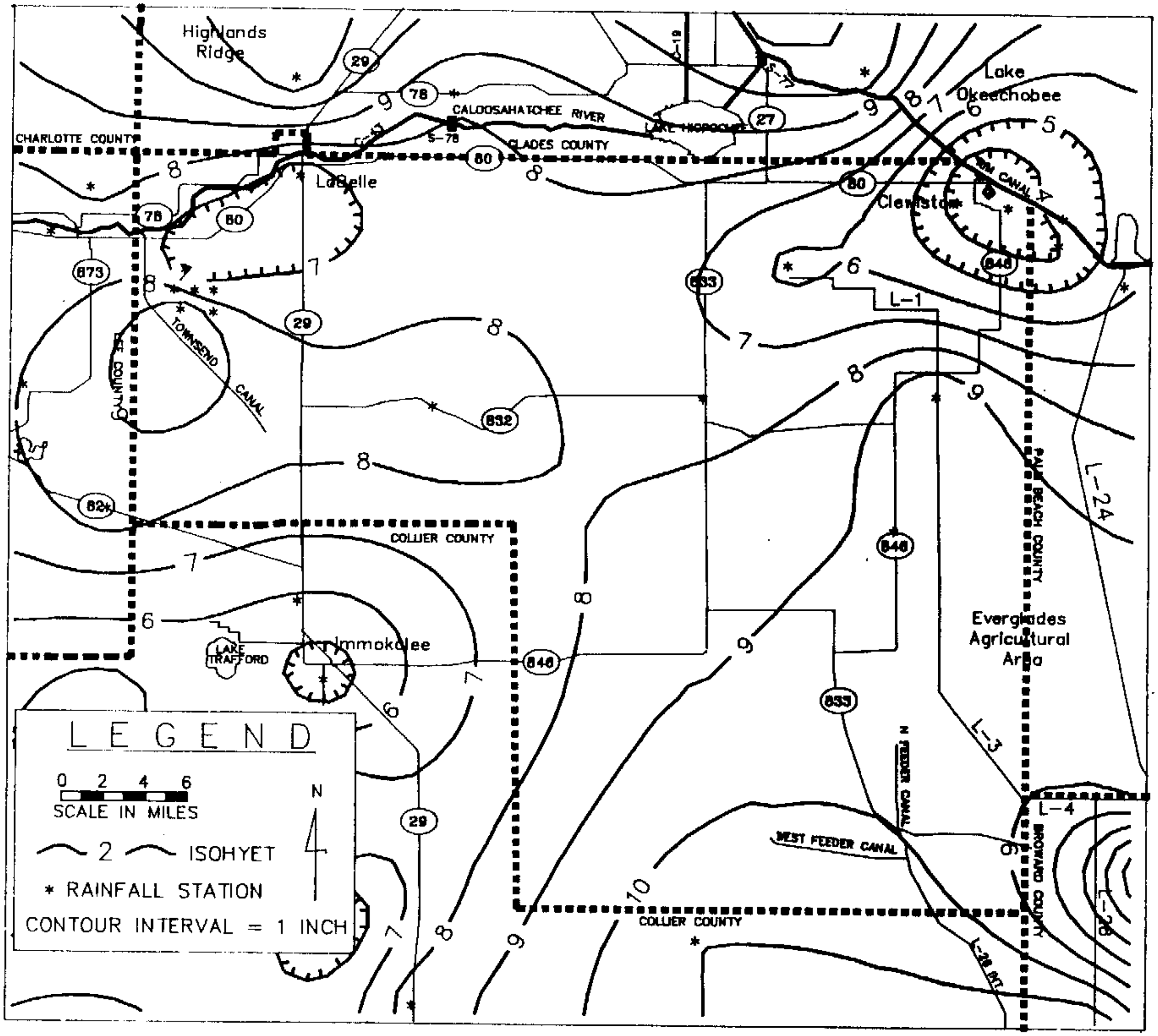

Figure C-21. RAINFALL, SEPTEMBER 1987

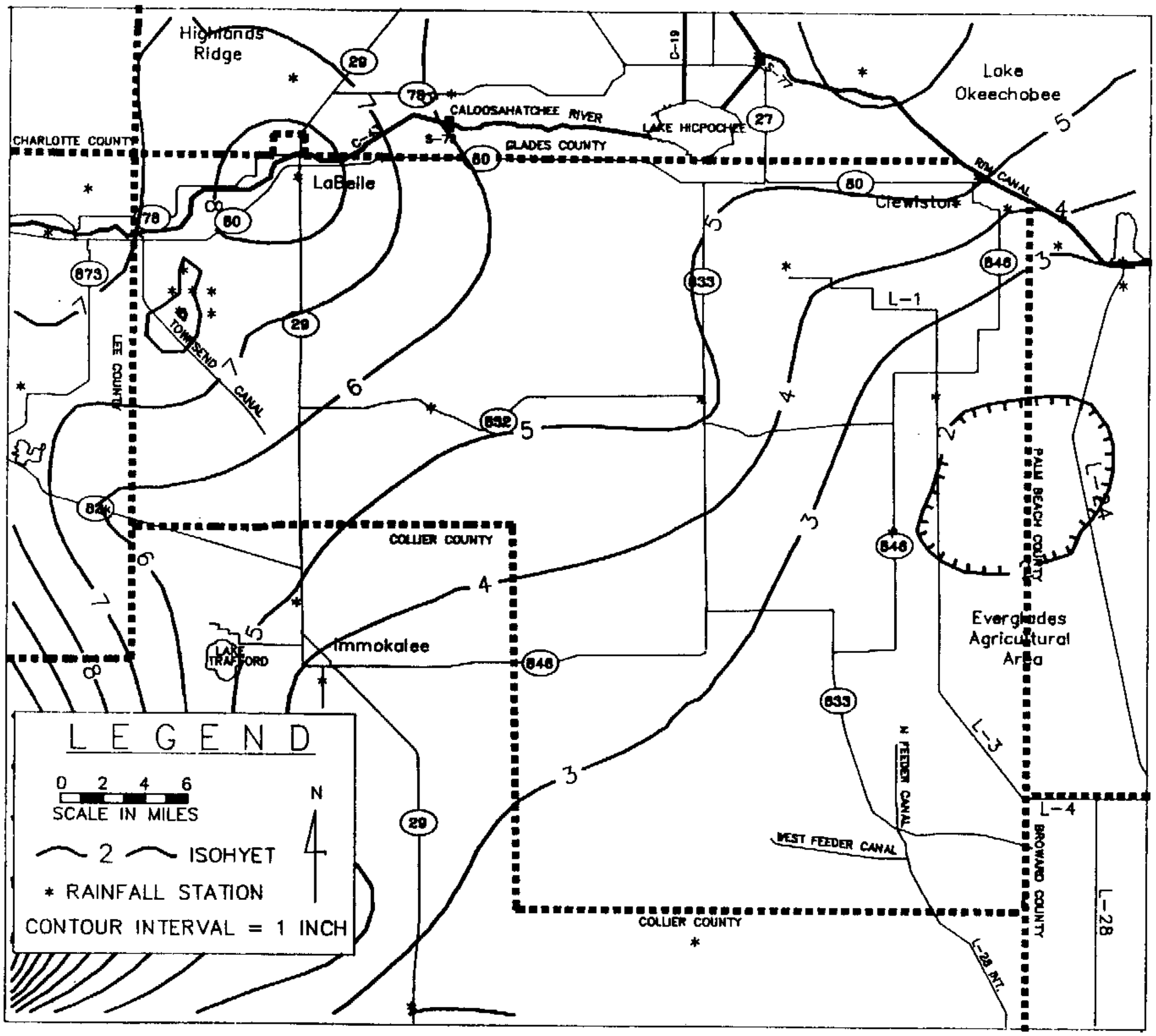

Figure C-22. RAINFALL, OCTOBER 1987

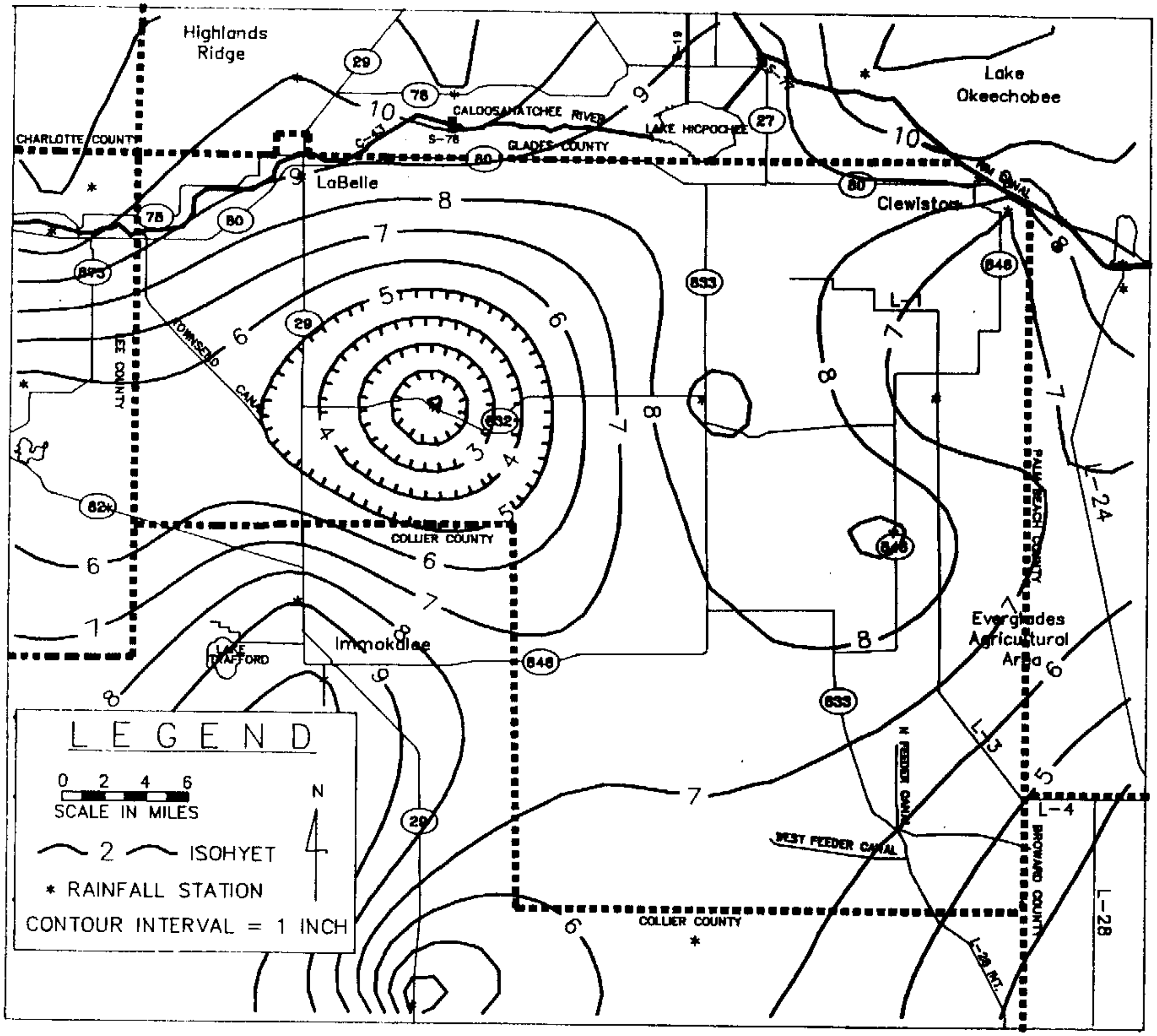

Figure C-23. RAINFALL, NOVEMBER 1987

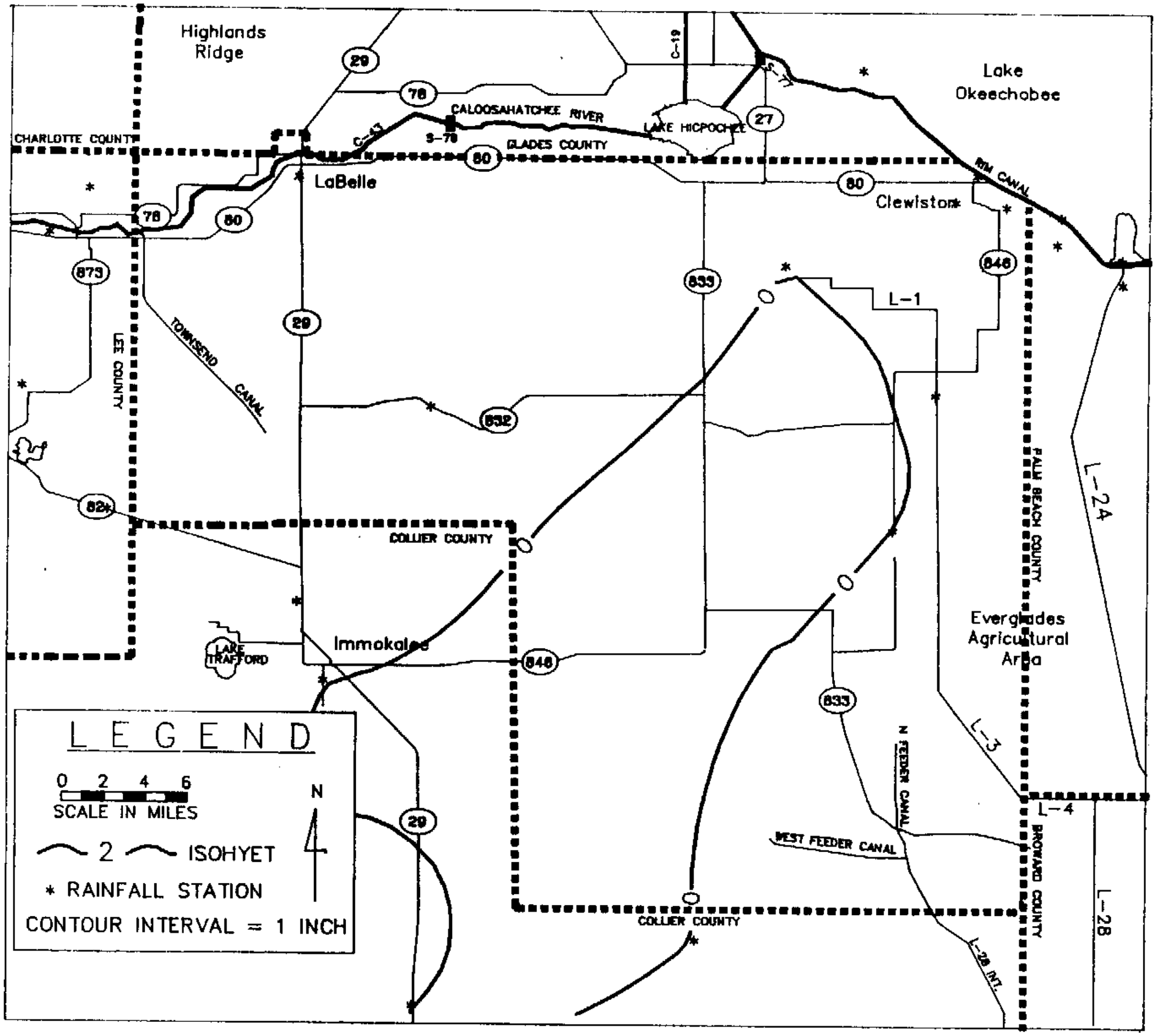

Figure C-24. RAINFALL, DECEMBER 1987

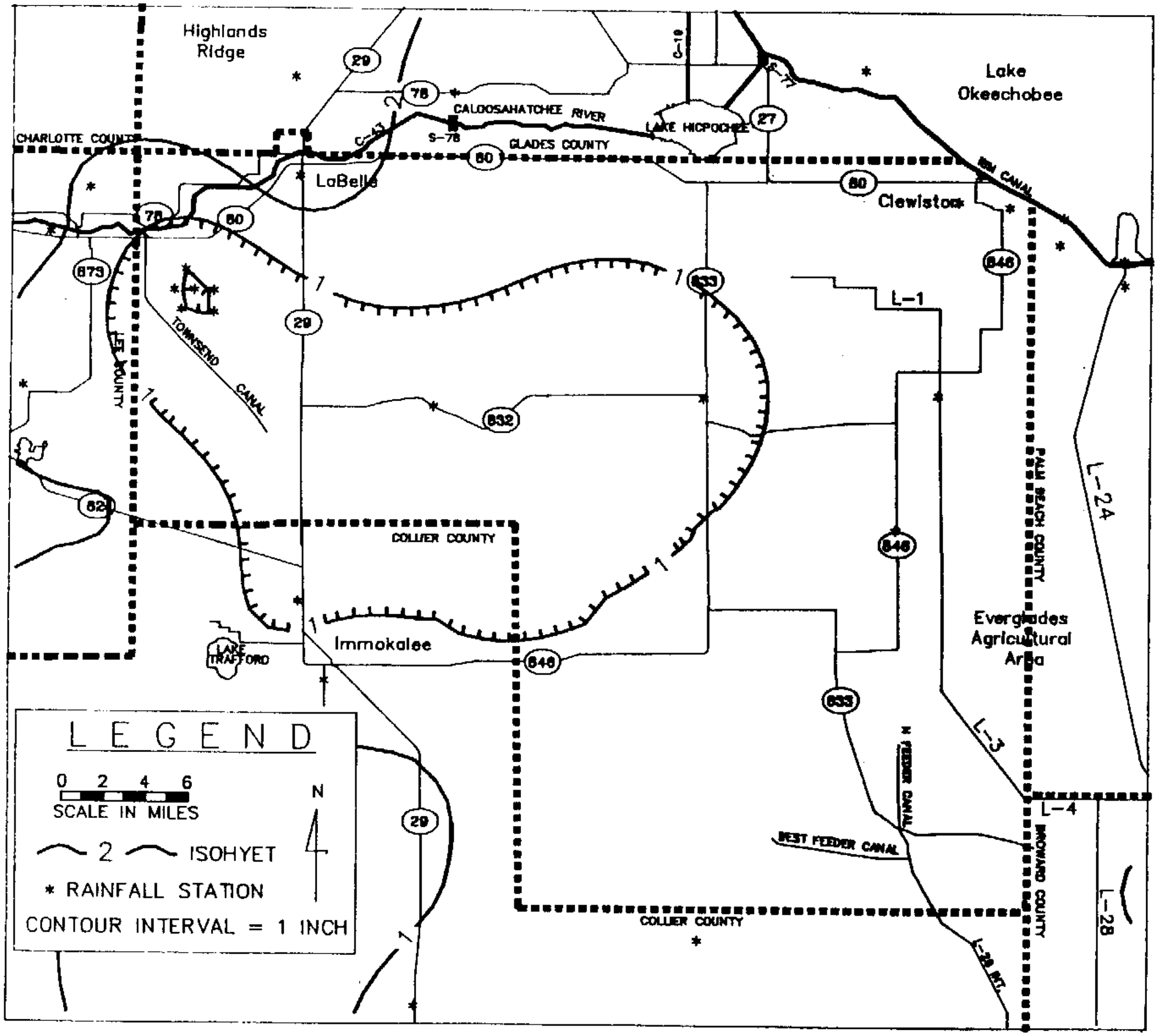

Figure C-25. RAINFALL, JANUARY 1988

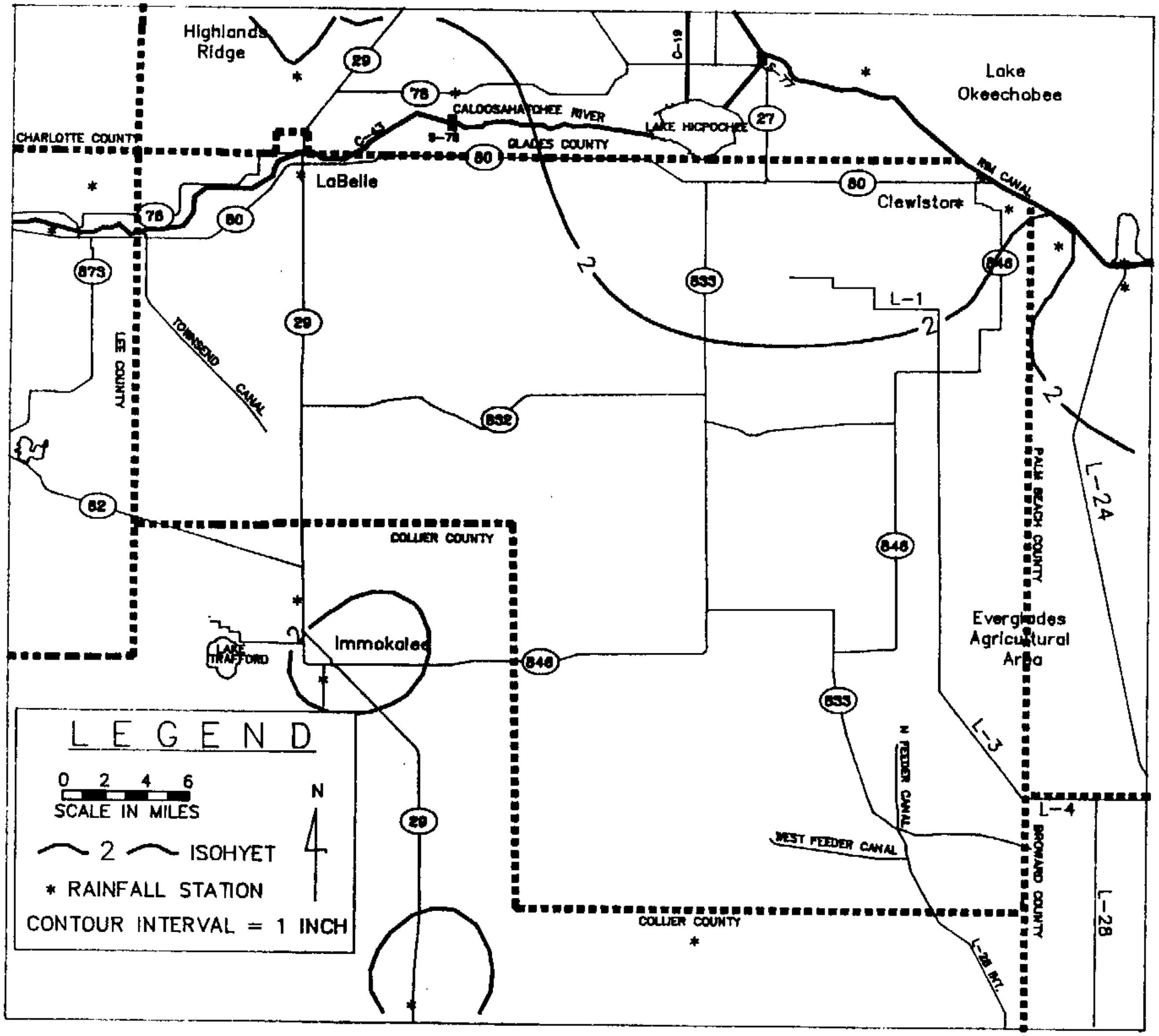

Figure C-26. RAINFALL, FEBRUARY 1988

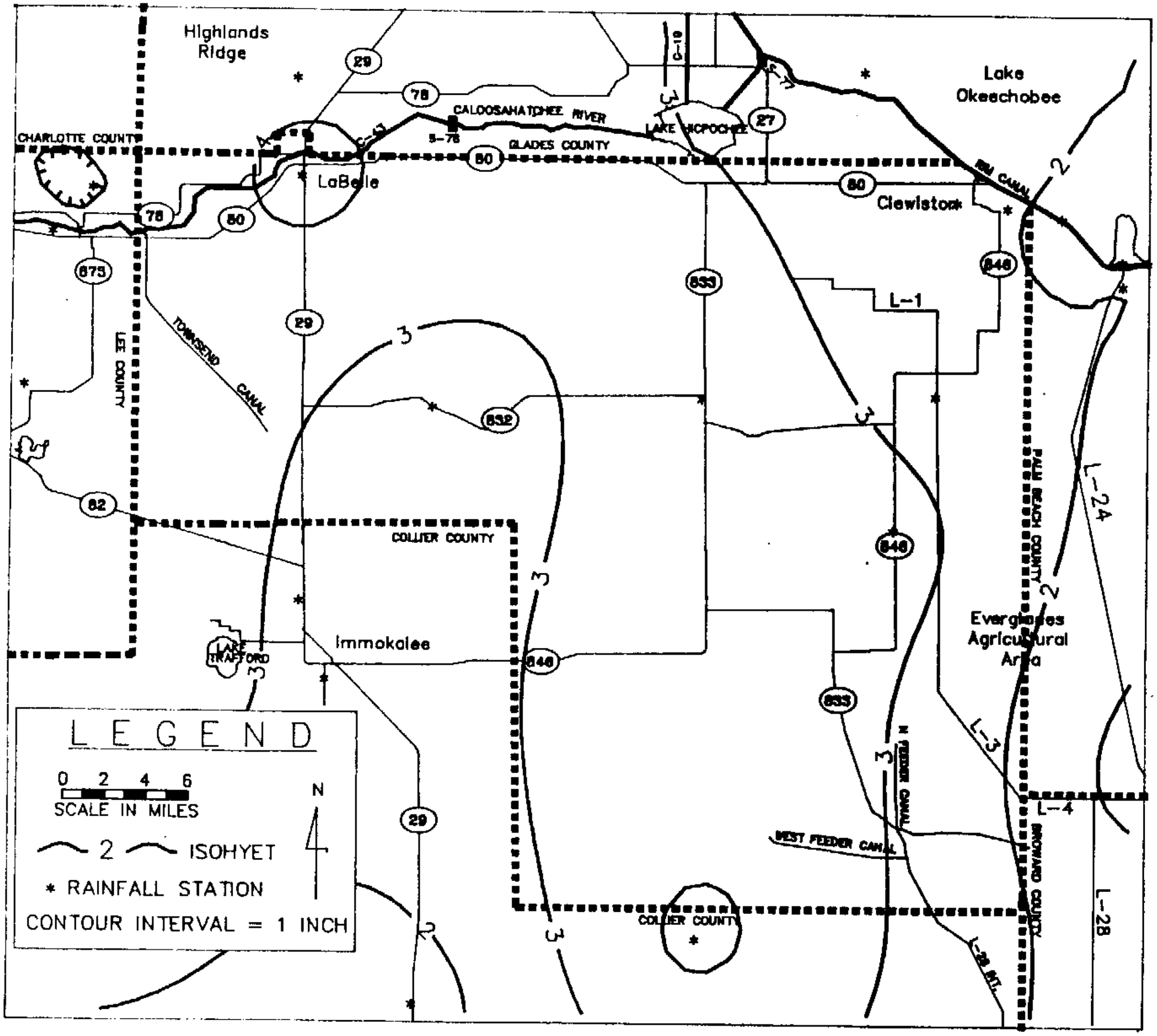

Figure C-27. RAINFALL, MARCH 1988

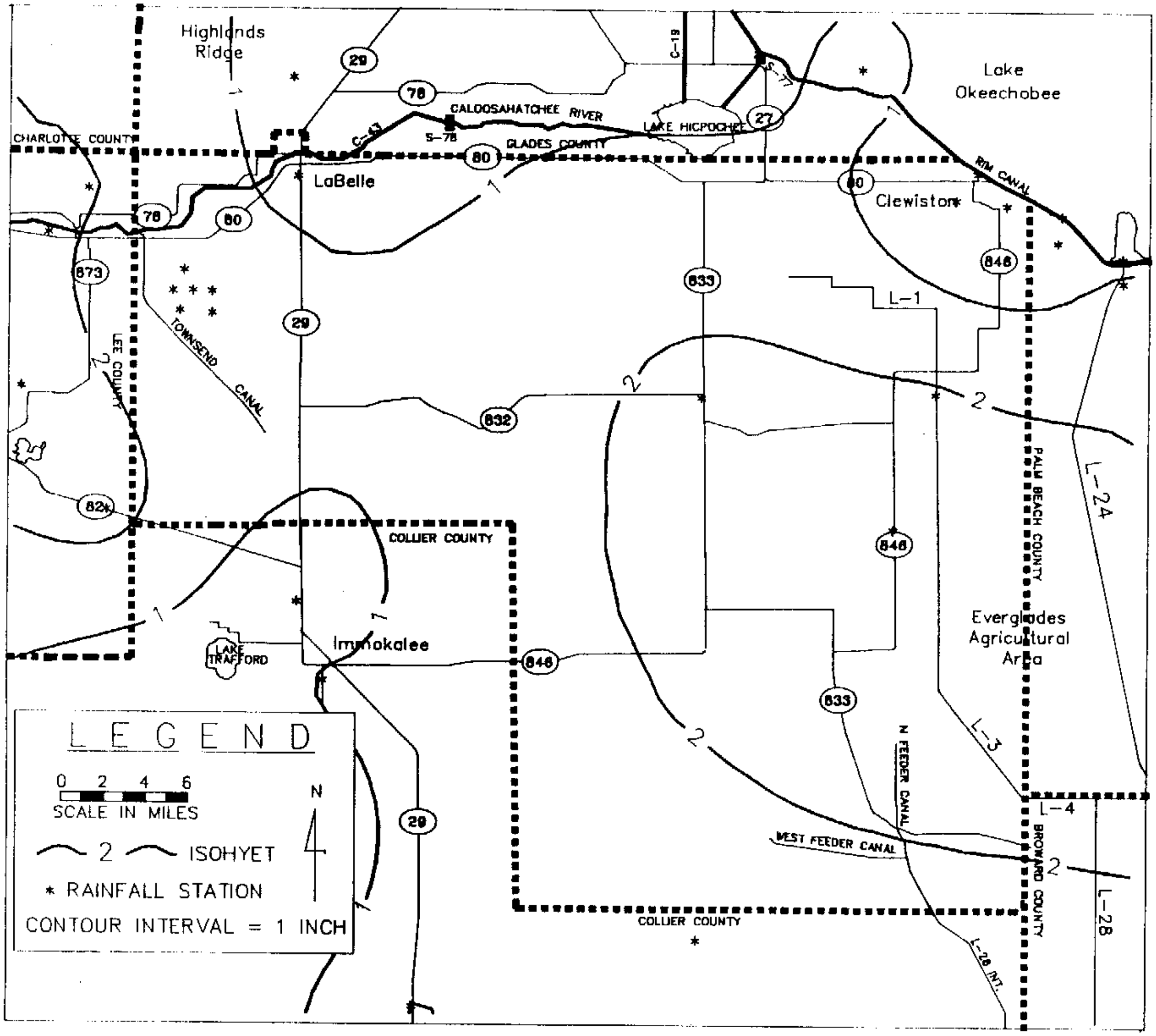

Figure C-28. RAINFALL, APRIL 1988

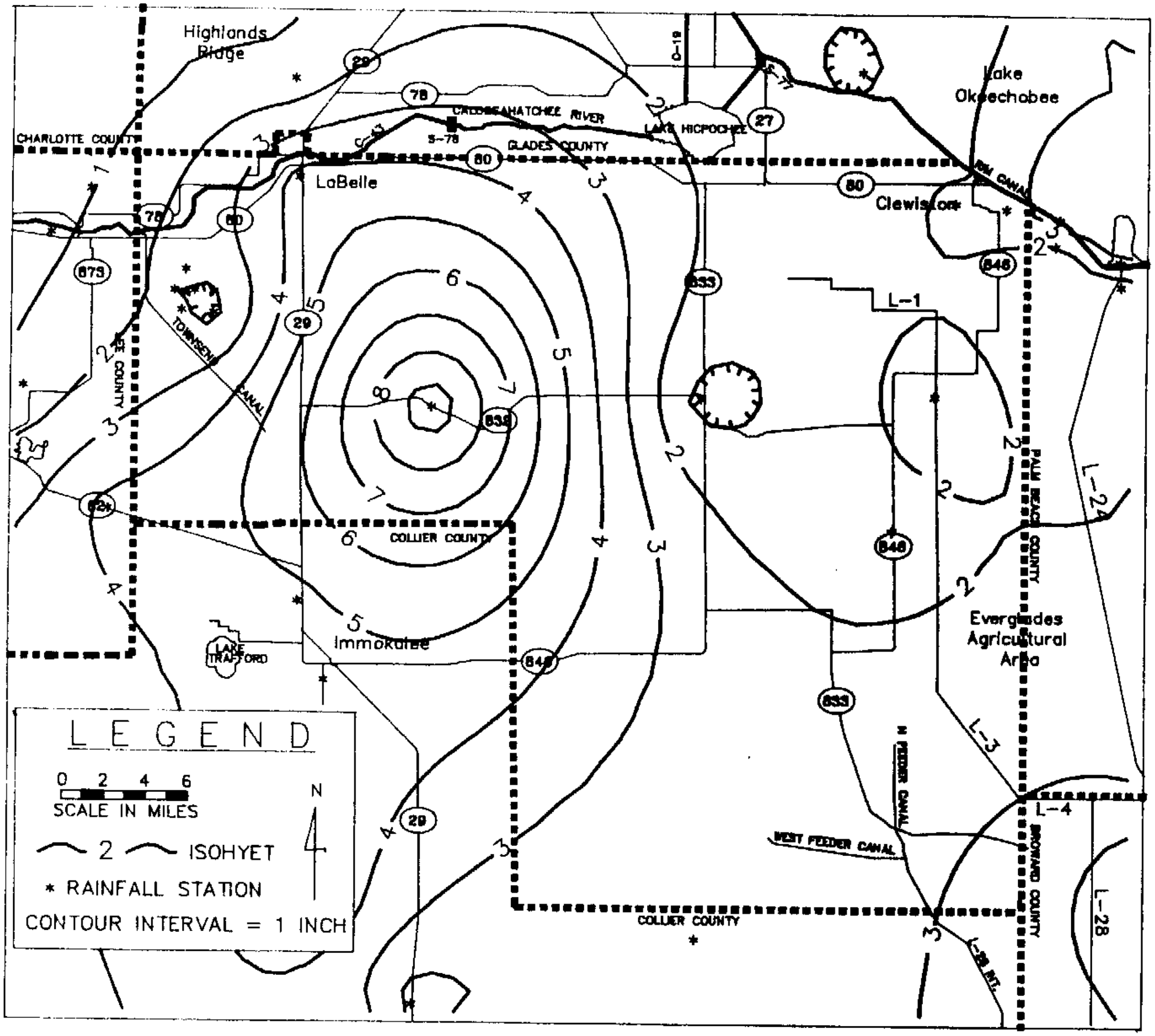

Figure C-29. RAINFALL, MAY 1988

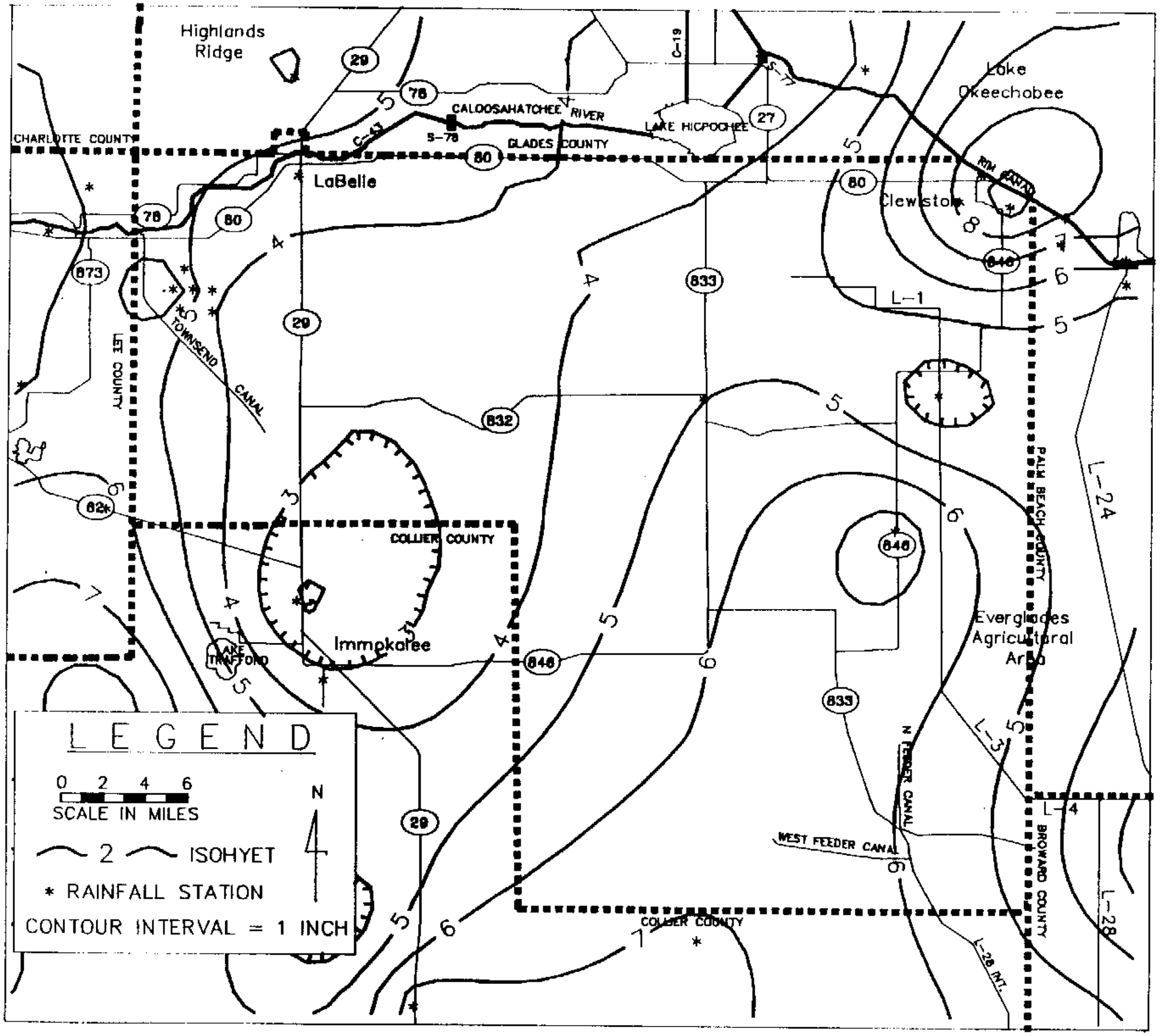

Figure C-30. RAINFALL, JUNE 1988

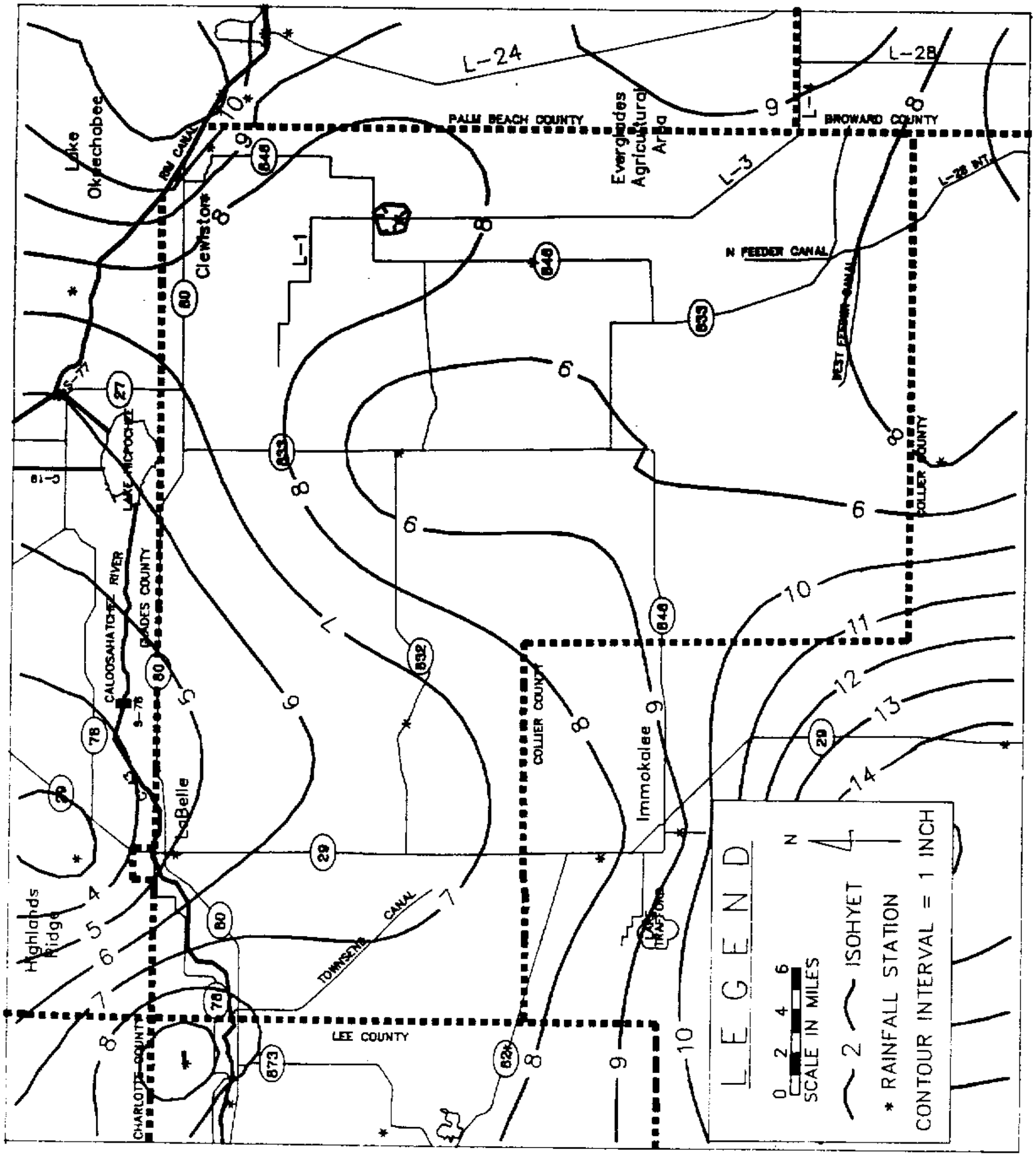

Figure C-31. RAINFALL, JULY 1988

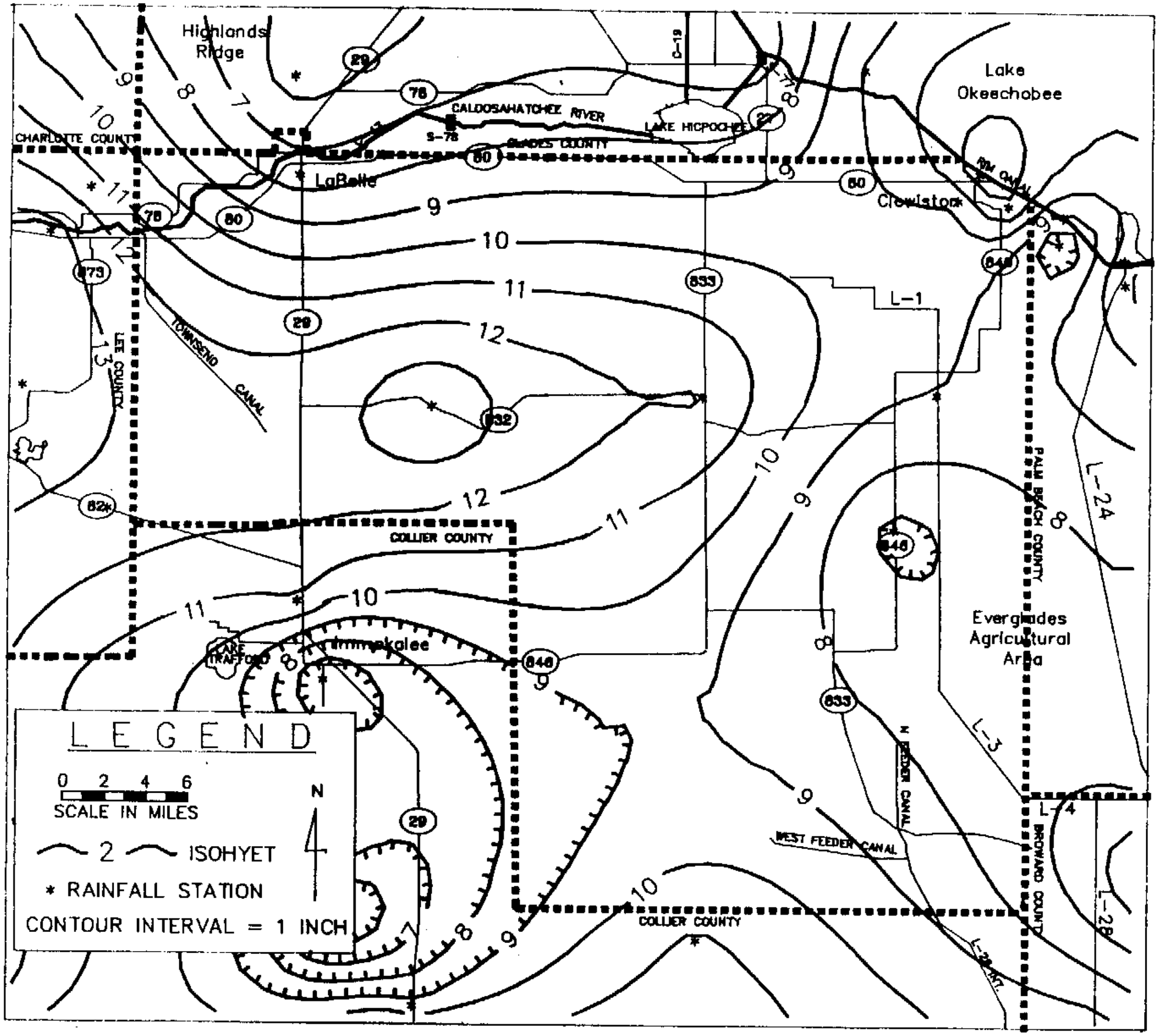

Figure C-32. RAINFALL, AUGUST 1988

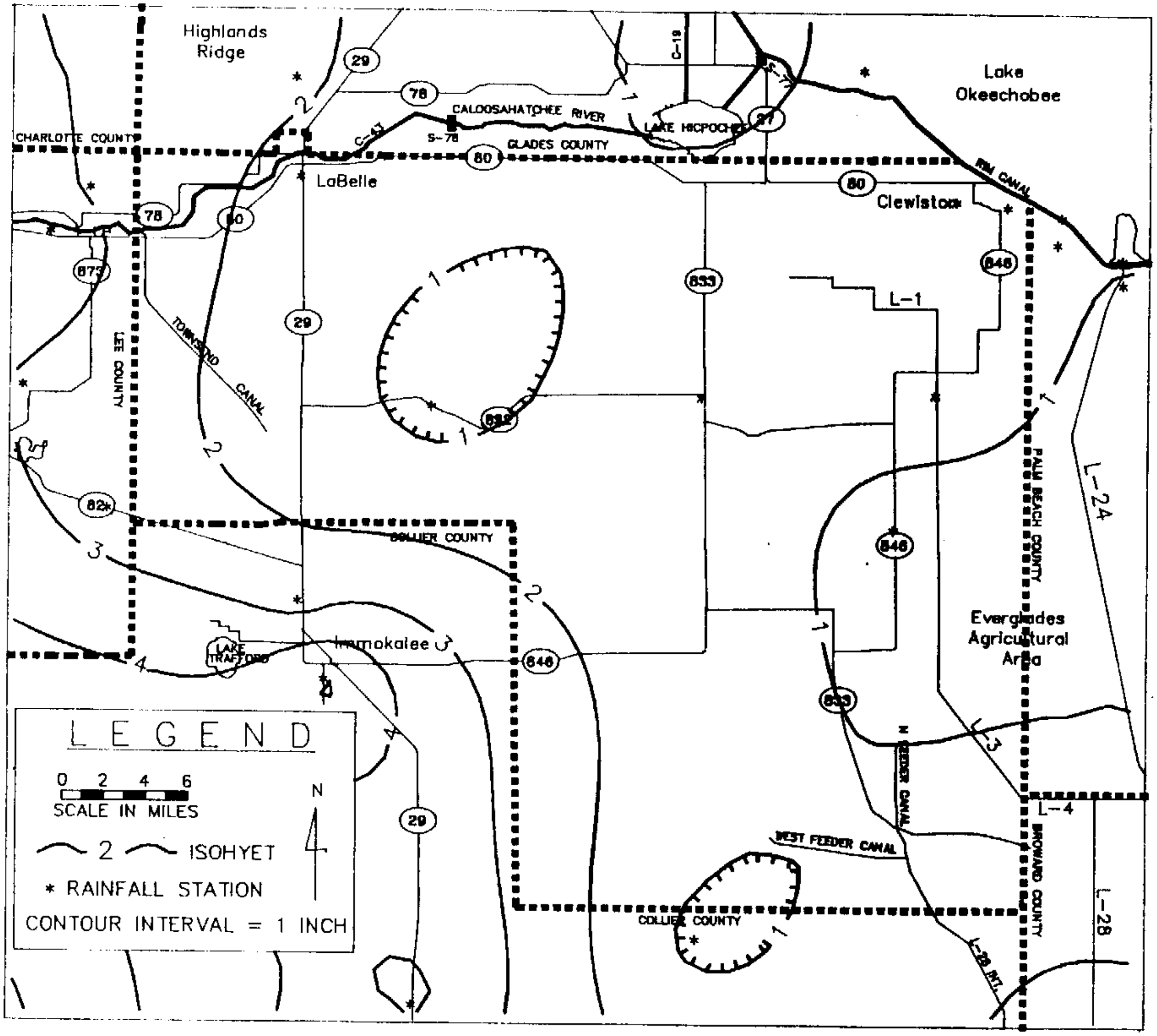

Figure C-33. RAINFALL, SEPTEMBER 1988

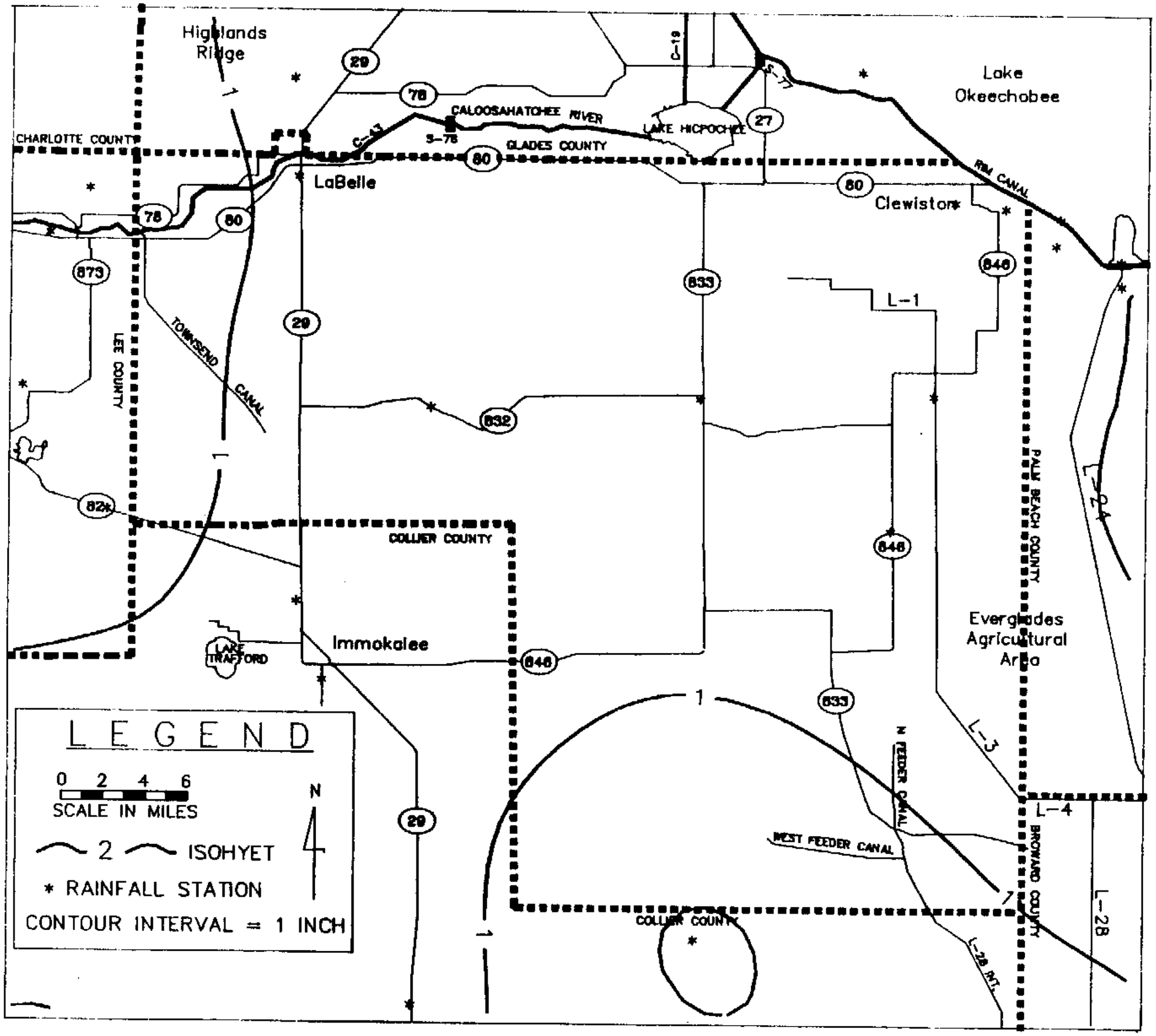

Figure C-34. RAINFALL, OCTOBER 1988

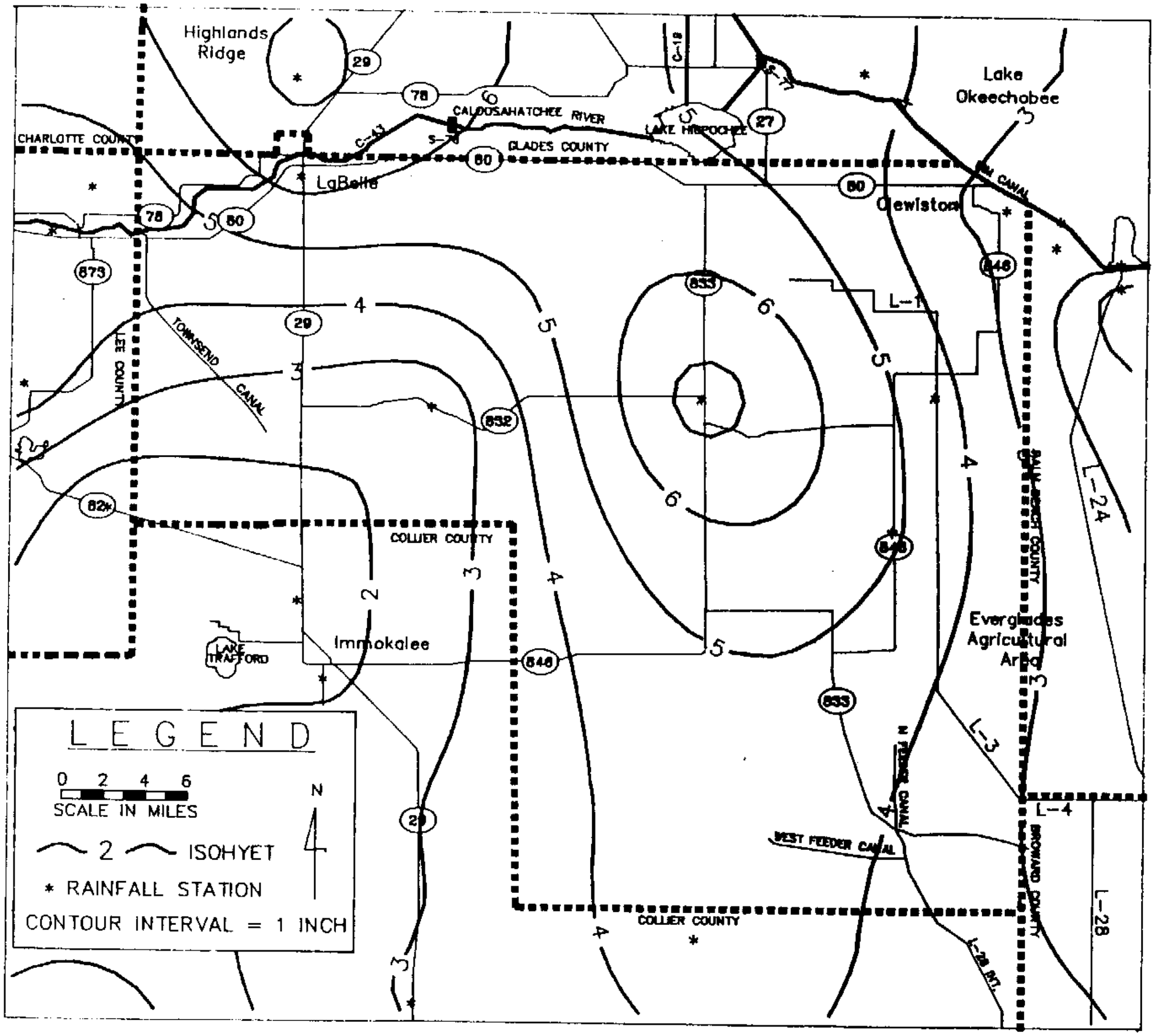

Figure C-35. RAINFALL, NOVEMBER 1988

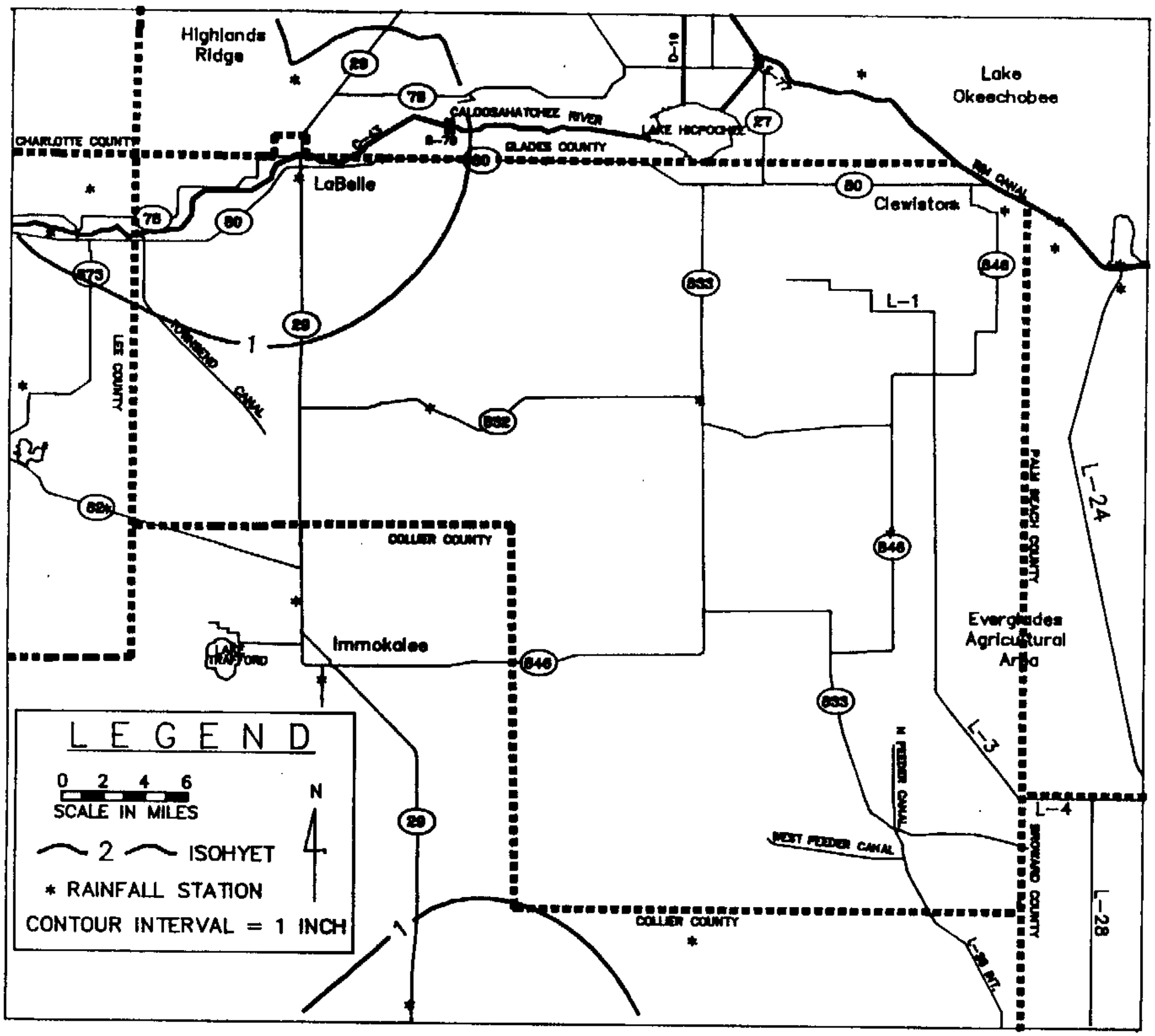

Figure C-36. RAINFALL, DECEMBER 1988

THIS PAGE INTENTIONALLY BLANK

APPENDIX D

EVAPOTRANSPIRATION INPUT DATA

LIST OF FIGURES - APPENDIX D

EVAPOTRANSPIRATION DATA

Stress Period	Month/Year*	Maximum ET Rate**
1	January 1986	3.71
2	February 1986	4.91
3	March 1986	6.99
4	April 1986	8.83
5	May 1986	9.37
6	June 1986	7.74
7	July 1986	7.33
8	August 1986	8.44
9	September 1986	6.59
10	October 1986	5.47
11	November 1986	4.18
12	December 1986	3.06
13	January 1987	3.94
14	February 1987	4.33
15	March 1987	4.84
16	April 1987	7.78
17	May 1987	9.19
18	June 1987	7.96
19	July 1987	6.84
20	August 1987	7.89
21	September 1987	5.54
22	October 1987	5.28
23	November 1987	3.82
24	December 1987	3.72
25	January 1988	3.67
26	February 1988	4.21
27	March 1988	6.06
28	April 1988	7.02
29	May 1988	8.59
30	June 1988	7.54
31	July 1988	7.29
32	August 1988	7.11
33	September 1988	6.55
34	October 1988	6.21
35	November 1988	4.21
36	December 1988	3.83

* Average monthly pan evaporation rates from stations at Clewiston, Labelle, and Hurricane Gate 1.

** In inches per month. A rate of 3.72 inches per month was used in the steady state runs.

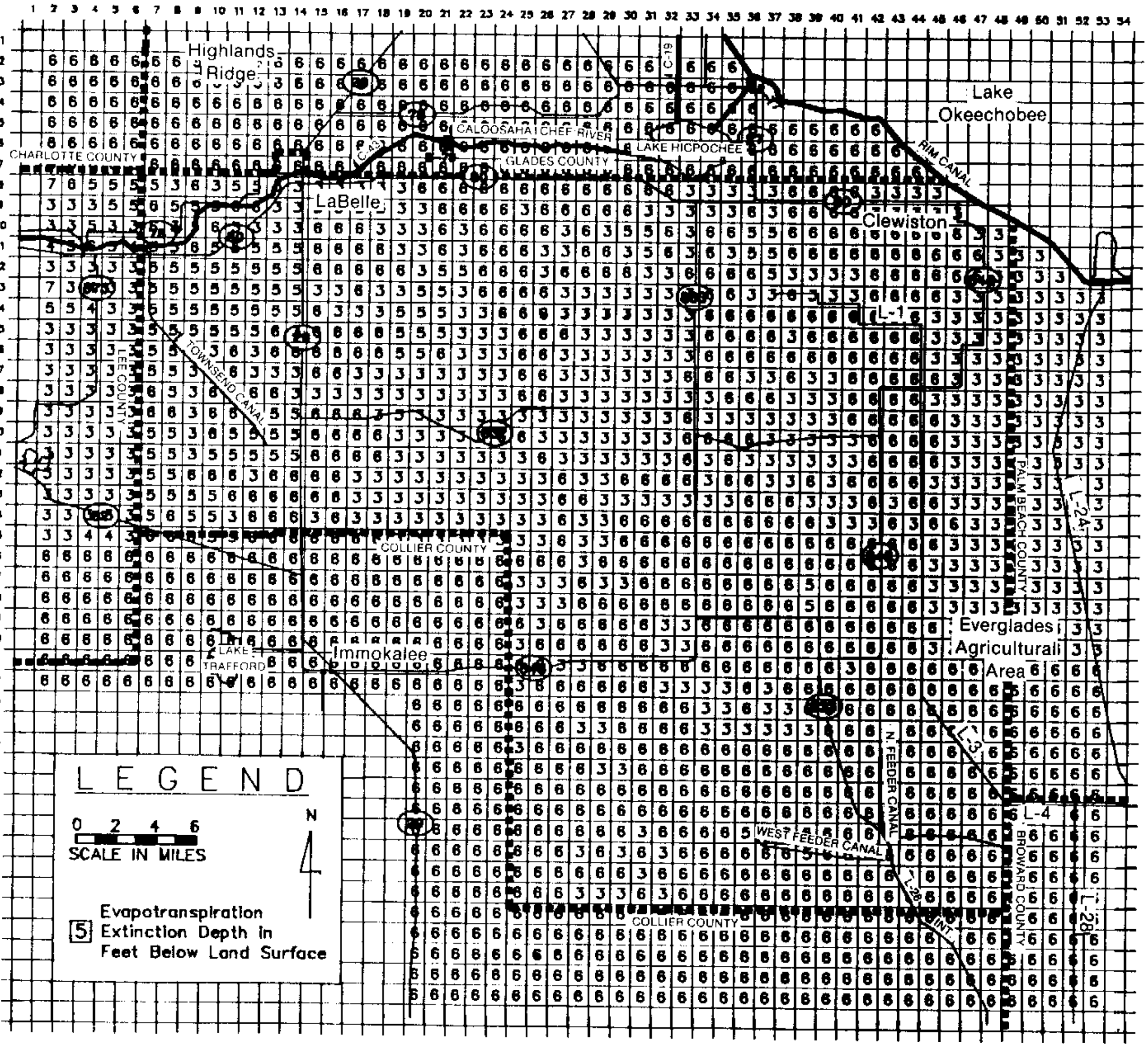

Figure D-1. EVAPOTRANSPIRATION EXTINCTION DEPTH

APPENDIX E

WATER USE DATA

INTRODUCTION

This appendix contains information on the individual water use permits issued by the Water Use Division, Regulation Department, South Florida Water Management District. This information was used to compile the well withdrawal data file used in the model.

Permits issued through November 1989 are included in this appendix. The information is organized into four spreadsheets. The first two spreadsheets contain information on the individual water use permits for agricultural use within Hendry County. The third spreadsheet contains information on individual water use permits for agricultural use within the buffer areas of Lee, Collier, Broward, Palm Beach, Glades, and Charlotte Counties. A legend for these spreadsheets is included on page 141. The final spreadsheet contains information on individual water use permits for public supply, commercial, industrial, and mining uses within the study area. A legend for this spreadsheet can be found on page 193.

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

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

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 MO.	MO. UTS.	CO	DATE ISS.	USE TYPE	SRC.	NO. WLS.	SW PMPS	OWNER	CROP TYPE	SOIL TYPE	RAIN ST	IRR ACRES	IRR EFF	LOS
2600016	938.30	03	346.35	02	26	8/87	AG	BOTH	28		BIG CYPRESS CITRUS, INC.	13	0.8	26	1200	0.50	
2600020	4625.28	03	380.16	02	26	6/87	AG	GW	37		JOE A. HILLIARD	20	0.8	26	16384	0.50	

PERMIT NO.	FACILITY NUMBER	QUAD NO.	STS	WELL DIA.	DPTH CODE	TD	CD	PMP INT	PUMP TYPE	PUMP CAP.	MTR?	XPLNR	YPLNR	SRC	AQ.	COMMENTS
2600016	2600016-1	208	01	6.00	02	60				500	N	480922	723955	GW	03	
	2600016-2	208	01	6.00	02	60				500	N	480711	723812	GW	03	
	2600016-3	208	01	6.00	02	60				500	N	480419	723667	GW	03	
	2600016-4	208	01	6.00	02	60				500	N	480208	723009	GW	03	
	2600016-5	208	01	6.00	02	60				500	N	479908	722647	GW	03	
	2600016-6	208	01	6.00	02	60				500	N	484362	722050	GW	03	
	2600016-7	208	01	6.00	02	60				500	N	483924	721177	GW	03	
	2600016-8	208	01	6.00	02	60				500	N	483301	720607	GW	03	
	2600016-9	208	01	6.00	02	60				500	N	484926	720922	GW	03	
	2600016-10	208	01	6.00	02	60				500	N	485696	720973	GW	03	
	2600016-11	208	01	6.00	02	60				500	N	483258	720027	GW	03	
	2600016-12	208	01	6.00	02	60				500	N	480250	721225	GW	03	
	2600016-13	208	01	6.00	02	60				500	N	479649	720590	GW	03	
	2600016-14	208	01	6.00	02	60				500	N	479359	720290	GW	03	
	2600016-15	208	01	6.00	02	60				500	N	477051	720251	GW	03	
	2600016-16	208	01	6.00	02	60				500	N	476261	719633	GW	03	
	2600016-17	208	01	6.00	02	60				500	N	477097	719651	GW	03	
	2600016-18	208	01	6.00	02	60				500	N	485124	719606	GW	03	
	2600016-19	208	01	6.00	02	60				500	N	481951	718491	GW	03	
	2600016-20	208	01	6.00	02	60				500	N	478930	719244	GW	03	
	2600016-21	208	01	6.00	02	60				500	N	478605	718633	GW	03	
	2600016-22	208	01	6.00	02	60				500	N	484848	717894	GW	03	
	2600016-23	208	01	6.00	02	60				500	N	482343	717214	GW	03	
	2600016-24	208	01	6.00	02	60				500	N	481475	716668	GW	03	
	2600016-26	208	01	6.00	02	60				500	N	483621	715547	GW	03	
	2600016-26	208	01	6.00	02	60				500	N	483621	715547	GW	03	
	2600016-27	208	01	6.00	02	60				500	N	483909	716427	GW	03	
	2600016-28	208	01	9.00	02	60				900	N	484514	716860	GW	03	
	2600016-SW	208	01							10000	N	486300	713500	SW		
2600020	2600020-1	174	01	6.00	02	150			01	600	N			GW	03	
	2600020-2	174	01	6.00	02	150			01	600	N	449911	793105	GW	03	
	2600020-3	174	01	6.00	02	150			01	600	N	452745	793172	GW	03	
	2600020-4	174	01	6.00	02	150			01	600	N	453976	789656	GW	03	
	2600020-5	174	01	6.00	02	150			01	600	N	457620	789508	GW	03	
	2600020-6	174	01	6.00	02	150			01	600	N	454346	787925	GW	03	
	2600020-7	174	01	6.00	02	150			01	600	N	450952	788536	GW	03	
	2600020-1	192	01	6.00	02	150			01	600	N	457963	786213	GW	03	
	2600020-2	192	01	6.00	02	150			01	600	N	0	0	GW	03	

	2600020-3	192	01	6.00	02	150			01	600	N	453062	782772	GW	03					
	2600020-4	192	01	6.00	02	150			01	600	N	448174	785803	GW	03					
	2600020-5	192	01	6.00	02	150			01	600	N	446344	785686	GW	03					
	2600020-6	192	01	6.00	02	150			01	600	N	0	0	GW	03					
	2600020-7	192	01	6.00	02	150			01	600	N	0	0	GW	03					
	2600020-8	192	01	6.00	02	150			01	600	N	0	0	GW	03					
	2600020-9	192	01	6.00	02	150			01	600	N	430697	781960	GW	03					
	2600020-10	192	01	6.00	02	150			01	600	N	427495	781015	GW	03					
	2600020-11	192	01	6.00	02	150			01	600	N	428658	777043	GW	03					
	2600020-12	192	01	6.00	02	150			01	600	N	431999	781338	GW	03					
	2600020-13	192	01	6.00	02	150			01	600	N	431214	777339	GW	03					
	2600020-14	192	01	6.00	02	150			01	600	N	436641	777684	GW	03					
	2600020-15	192	01	6.00	02	150			01	600	N	437805	782096	GW	03					
	2600020-16	192	01	6.00	02	150			01	600	N	447899	781588	GW	03					
	2600020-17	192	01	6.00	02	150			01	600	N	448616	782121	GW	03					
	2600020-18	192	01	6.00	02	150			01	600	N	450024	780852	GW	03					
	2600020-19	192	01	6.00	02	150			01	600	N	452221	780729	GW	03					
	2600020-20	192	01	6.00	02	150			01	600	N	453041	782377	GW	03					
	2600020-21	192	01	6.00	02	150			01	600	N	453641	778220	GW	03					
	2600020-22	192	01	6.00	02	150			01	600	N	442530	772336	GW	03					
	2600020-23	192	01	6.00	02	150			01	600	N	438416	776637	GW	03					
	2600020-24	192	01	6.00	02	150			01	600	N	436885	772131	GW	03					
	2600020-25	192	01	6.00	02	150			01	600	N	432690	776816	GW	03					
	2600020-26	192	01	6.00	02	150			01	600	N	431319	774842	GW	03					
	2600020-27	192	01	6.00	02	150			01	600	N	429499	776184	GW	03					
	2600020-28	192	01	6.00	02	150			01	600	N	427116	772155	GW	03					
	2600020-29	192	01	6.00	02	150			01	600	N	458267	777028	GW	03					
	2600020-30	192	01	6.00	02	150			01	600	N	445899	766885	GW	03					
2600022	77.27		03	.948	01	26	10/87	AG	BOTH	2	2	BOB PAUL (BANNANA BRANCH GROVES)				13	1.5	15	168	0.85
	2600022-1	153	01	10.00		500	300		02	800	N	333625	865125	GW	05					
	2600022-2	153	01	10.00		162	126		02	323	N	333000	864125	GW	04					
	2600022-SW	153	01							625	N	332650	863950	SW						
	2600022-SW	153	01							625	N	335150	860500	SW						
2600023	1000.29		03			26	7/77	AG	BOTH	10	?	REYNOLDS & THOMAS, INC.					3.6	26	1240	0.50
2600023																01	3.6	26	840	0.50
	2600023-	194												GW						
	2600023-	194												GW						
	2600023-	194												GW						
	2600023-	194												GW						
	2600023-	194												GW						
	2600023-	194												GW						
	2600023-	194												GW						
	2600023-	194												GW						
	2600023-	194												GW						
	2600023-	194												GW						
	2600023-SW	194												SW						
2600029	390.99		03			26	7/77	AG	GW	4		J. S. W. DAVIS				20	3.6	15	897	0.50
	2600029-	194	01	8.00		70	54			175	N			GW	03					
	2600029-	194	01	8.00		70	50			175	N			GW	03					
	2600029-	194	01	8.00		70	52			175	N			GW	03					
	2600029-	194	01	8.00		70	52			175	N			GW	03					
2600031	146.7		03	1.46	01	26	2/88	AG	BOTH	7	Y	OLIVER T. MURRAY				13	1.5	15	177	0.85
2600031																20	1.5	15	82	0.50
	2600031-36	154	01	6.00	02	132	60			500	N	340272	874349	GW	04					

	2600031-37	154	01	6.00	02	112	60			500	N	341087	873800	GW	04						
	2600031-38	154	01	6.00	02	11	10				N	339786	873297	GW	01	WINDMILL					
	2600031-39	154	03	4.00	02	20					N	341051	873323	GW	01						
	2600031-40	154	01	6.00	02	200	110			170	N	340968	871656	GW	04						
	2600031-41	154	01	6.00	02	400	100			200	N	341063	870782	GW	05						
	2600031-42	154	01	6.00	02	140	12			250	N	339794	869951	GW	04						
	2600031-SW	154	01								N	339718	875742	SW							
2600032	28.41		03	5.47	02	26	6/87	AG	GW	1		CHARLES REID					20	3.6	15	40	0.50
	2600032-	158	01	6.00	02	30					N	502800	877000	GW	01						
2600035	28.19		03			26	7/77	AG	GW	1		McCLURGS INC.					13	0.8	15	80	0.85
	2600035-	155	01	6.00	02					700	N	391700	860000	GW	01						
2600036	25.19		03			26	7/77	AG	GW	1		McCLURGS INC.					13	0.8	15	80	0.85
	2600036-	155	01	6.00	02						N	391700	860000	GW	01						
2600037	26.36		03	.323	01	26	6/86	AG	GW	1	N	D. UPADHYAYA					13	1.5	15	57	0.85
	2600037-3	153	01	10.00	02	500	300			640	N	334634	868120	GW	05						
2600041	5017.76		03	2440.00	02	26	1/82	AG	BOTH	3	Y	U. S. SUGAR CORPORATION					20	0.8	26	10880	0.50
	2600041-12	209	01	6.00	02	60	40			192		530801	736637	GW	03	WELLS USED FOR STOCK WATERING ONLY					
	2600041-60	194	01	6.00	02	50	30			192		530494	757717	GW	03	PERMIT INCLUDES DEWATERING AT RATE OF 21.6 MGD					
145	2600041-61	194	01	6.00	02	50	30			101		530808	747293	GW	03	TO ALLOW CONSTRUCTION OF NEW CANAL					
	SW													SW							
2600042	503.41		03			26	7/77	AG	BOTH	1	Y	M. E. RIDGEDILL					20	3.6	26	216	0.50
2600042																	15	3.6	26	324	0.50
	2600042-1	158	01		02					600		531508	873358	GW	03						
	2600042-SW	158	01									526562	876954	SW							
2600046	46.00		03	.564	01	26	6/87	AG	BOTH	2	1	BOWMAN FARMS					13	1.5	15	100	0.85
	2600046-1	135	01	6.00	02	150				90	N	346300	883950	GW	04						
	2600046-2	135	01	6.00	02	150				90	N	346278	882722	GW	04						
	2600046-SW	135	01							300	N	346600	881700	SW							
2600047	661.94		03	103.62	02	26	0	AG	GW	5		E. C. MILLS					20	0.8	15	585	0.50
	2600047-2	176	01	9.00	02	110	50			450	N	517187	802768	GW	03						
	2600047-3	176	01	8.00	02	110	50			450	N	518190	801455	GW	03						
	2600047-4	176	01	8.00	02	110	50			450	N	520636	801384	GW	03						
	2600047-5	176	01	8.00	02	110	50			450	N	520765	804008	GW	03						
	2600047-6	176	01	8.00	02	110	50			450	N	518165	803930	GW	03						
2600048	194.8		03	19.44	02	26	4/87	AG	GW	1	N	B. F. PAGE					61	0.8	26	143	0.50
	2600048-7	176	01	8.00	02	110						516604	820342	GW	03						
2600050	10.85		03			26	7/77	AG	GW	1		C. L. McLENDON					20	3.6	26	25	0.50
	2600050-2	158	01	6.00	02					800	N	533117	871952	GW	03						
2600052	29.36		03	5.68	02	26	10/87	AG	GW	5		JOHN F. CHARLTON					11	1.5	15	5	0.50
2600052																	52	1.5	15	25	0.50
	2600052-1	172	01	6.00	02	58				500	N	366793	795161	GW	03						
	2600052-2	172	01	6.00	02	58				500	N	365417	794598	GW	03						
	2600052-3	172	01	4.00	02	58				200	N	368076	794724	GW	03						
	2600052-4	172	01	3.00	02	26				150	N	366832	795975	GW	01						
	2600052-5	172	01	3.00	02	30				150	N	366302	796192	GW	01						
2600053	8.80		03			26	7/77	AG	GW	2		R. D. DUNAWAY					20	0.8	15	40	0.50

	2600053-6	172	01	6.00	02	33				600	N	352678	804185	GW	01					
	2600053-7	172	01	6.00	02	33				600	N	353705	803721	GW	01					
2600054	373.73		03			26	7/77	AG	GW	3		CHARLES W. WARD				20	0.8	26	460	0.50
	2600054-14	194	01	6.00	02	450				800	N	511253	764902	GW	05					
	2600054-15	194	01	6.00	02	190				900	N	512447	763392	GW	03					
	2600054-16	194	01	6.00	02	200				1000	N	513685	763448	GW	03					
2600055	22.49		03			26	8/87	AG	BOTH	5	1	DUDA - GENERAL GROVE				13	0.8	15	153	0.85
	2600055-4	135	01	8.00	02	27	27			500	N	373064	880241	GW	01					
	2600055-5	135	03	5.00	02	34	34			500	N	373657	880247	GW	01					
	2600055-6	135	01	5.00	02	34	34			500	N	374329	880233	GW	01					
	2600055-7	135	01	6.00	02	34	34			500	N	375151	880513	GW	01					
	2600055-8	135	01	6.00	02	34	34			500	N	375106	881155	GW	01					
	2600055-SW	135	01							1500	N	373009	882289	SW						
2600056	33.56		03			26	7/77	AG	GW	2		FELDA RANCH				20	0.8	15	155	0.50
	2600056-8	172	01	6.00		33				600	N	354834	804624	GW	01					
	2600056-9	172	01	6.00		33				600	N	354708	806053	GW	01					
2600057	20.12		03	.123	01	26	11/87	AG	GW	3		RAYMOND CRAWFORD				20	0.8	15	20	0.50
	2600057-1	154	01	6.00	02	47				700	N	370874	866245	GW	01					
146	2600057-2	154	01	4.00	02					400	N	372368	866079	GW	01					
	2600057-3	154	01	6.00	02					700	N	372369	867252	GW	01					
2600059	29.90		03	.367	02	26	6/87	AG	GW	1		SIX L'S				13	0.8	15	65	0.85
	2600059-1	134	01	6.00	02	142	100				N	330200	884200	GW	04					
2600061	40.24		03	.246	01	26	8/87	AG	GW	4		W. G. WOOSLEY				20	0.8	15	40	0.50
	2600061-4	154	01	6.00	02	34				1050	N	356771	874756	GW	01					
2600065	69.40		03			26	7/77	AG	GW	5		PAUL O'BANNON				20	1.5	15	320	0.50
	2600065-6	154	01	6.00	02	150				500	N	370436	851100	GW	04					
	2600065-7	154	01	6.00	02	150				500	N	371336	849003	GW	04					
	2600065-8	154	03	6.00	02	150					N	371118	848229	GW	04					
	2600065-9	154	03	3.00	02	20					N	370861	847445	GW	01					
	2600065-10	154	03	3.00	02	30					N	372512	846350	GW	01					
2600066	16.09		03			26	7/77	AG	GW	2		G. AUSTIN OR ALEX E. CARLDEN				13	1.5	15	30	0.85
	2600066-5	154	01	4.00	02	20				333	N	337241	878389	GW	01					
	2600066-9	135	01	6.00	02	140				400	N	337033	878842	GW	04					
2600067	17.37		03			26	7/77	AG	GW	3		WESLEY HANSEN				13	0.8	15	80	0.85
	2600067-11	154	01	6.00	02	60	20			500	N	365197	863203	GW	01					
	2600067-12	154	01	6.00	02	150	100			500	N	367017	863768	GW	04					
	2600067-13	154	01	9.00	02	200	150			500	N	365172	864004	GW	04					
2600068	967.25		03	80.6	02	26	10/88	AG	GW	10		ASPRING, INC.				20	0.8	26	2400	0.50
	2600068-	176	01	6.00	02	90				600	N			GW	03					
	2600068-	176	01	6.00	02	90				600	N			GW	03					
	2600068-	176	01	6.00	02	90				600	N			GW	03					
	2600068-	176	01	6.00	02	90				600	N			GW	03					
	2600068-	176	01	6.00	02	90				600	N			GW	03					
	2600068-	176	01	6.00	02	90				600	N			GW	03					
	2600068-	176	01	6.00	02	90				600	N			GW	03					
	2600068-	176	01	6.00	02	90				600	N			GW	03					
	2600068-	176	01	6.00	02	90				600	N			GW	03					
	2600068-	176	01	6.00	02	90				600	N			GW	03					

2600069	354.13		03	43.20	02	26	6/87	AG	GW	5		E. C. MILLS				20	0.8	26	350	0.50
	2600069-1	175	03	6.00	02	109					N	485966	792267	GW	03					
	2600069-2	175	03	9.00	02	109					N	487153	789469	GW	03					
	2600069-3	175	01	8.00	02	100					N	485988	791188	GW	03					
	2600069-4	175	01	8.00	02	100					N	486061	793976	GW	03					
	2600069-5	175	01	6.00	02	109				500	N	487176	794049	GW	03					
2600070	525.60		03	43.20	02	26	6/87	AG	GW	19		E. C. MILLS				20	0.8	26	2268	0.50
	2600070-1	193	01	9.00	02	100				500	N	479995	785325	GW	03					
	2600070-2	193	01	9.00	02	100				500	N	478576	785490	GW	03					
	2600070-3	193	01	9.00	02	100				500	N	476313	785445	GW	03					
	2600070-4	193	01	9.00	02	100				500	N	473456	785400	GW	03					
	2600070-5	193	01	6.00	02	109	50			500	N	479090	783577	GW	03					
	2600070-6	193	01	9.00	02	100				500	N	480484	781522	GW	03					
	2600070-7	193	01	9.00	02	100				500	N	478725	781726	GW	03					
	2600070-8	193	01	3.00	02	40	20			500	N	476488	781331	GW	01					
	2600070-9	193	01	9.00	02	100				500	N	476092	781832	GW	03					
	2600070-10	193	01	9.00	02	100				500	N	480605	779924	GW	03					
	2600070-11	193	01	9.00	02	100				500	N	478977	780029	GW	03					
	2600070-12	193	01	9.00	02	100				500	N	476405	779916	GW	03					
	2600070-7	175	01	9.00	02	100				500	N	476141	790688	GW	03					
	2600070-8	175	01	9.00	02	100				500	N	480053	788070	GW	03					
	2600070-9	175	01	9.00	02	100				500	N	478478	788054	GW	03					
	2600070-10	175	01	9.00	02	100				500	N	475985	788056	GW	03					
	2600070-11	175	01	9.00	02	100				500	N	473577	788124	GW	03					
	2600070-12	175	01	9.00	02	100				500	N	472948	788590	GW	03					
	2600070-13	175	01	9.00	02	100				500	N	471676	787916	GW	03					
2600071	123.73		03	1.51	01	26	8/87	AG	GW	8		ALICO				13	0.8	15	269	0.50
	2600071-14	154	01	8.00	02	60				750	N	359340	870459	GW	01					
	2600071-15	154	01	8.00	02	60				750	N	359507	869557	GW	01					
	2600071-127	154	01	10.00	02	60				1200	N	359063	871825	GW	01					
	2600071-128	154	01	8.00	02	60				900	N	360398	870318	GW	01					
	2600071-129	154	01	8.00	02	60				1000	N	361210	870366	CW	08					
	2600071-130	154	01	4.00	02	1000				100	N	361231	870139	GW	08					
	2600071-131	154	01	8.00	02	60				900	N	361335	869308	GW	01					
	2600071-132	154	01	8.00	02	60				750	N	361674	869885	GW	01					
2600072	1849.60		03	267.74	02	26	6/87	AG	BOTH	2	1	JOE HILLIARD				01	0.8	26	1240	0.50
	2600072-8	176	01	6.00	02	110				600	N	517263	815638	GW	03					
	2600072-9	176	01	6.00	02	150				600	N	519188	809442	GW	03					
	2600072-SW	176	01							10000	N	522150	805500	SW						
2600073	1264.87		03	465.54	02	26	4/88	AG	GW	62		USSC - DEVILS GARDEN CITRUS SOUTH				13	0.8	26	2750	0.85
	2600073-13	193	04	6.00	02	120	70				N	459385	772097	GW	03					
	2600073-14	193	04	16.00	02	120	70				N	463070	772171	GW	03					
	2600073-15	193	04	6.00	02	120	70				N	464240	772082	GW	03					
	2600073-16	193	04	6.00	02	120	70				N	459312	770328	GW	03					
	2600073-17	193	04	6.00	02	120	70				N	462601	770189	GW	03					
	2600073-18	193	04	6.00	02	120	70				N	459400	768039	GW	03					
	2600073-19	193	04	6.00	02	120	70				N	463045	766452	GW	03					
	2600073-20	193	04	8.00	02	120	70				N	463965	765436	GW	03					
	2600073-21	193	04	6.00	02	120	70				N	459542	764321	GW	03					
	2600073-22	193	04	6.00	02	120	70				N	462860	763550	GW	03					
	2600073-23	193	04	6.00	02	120	70				N	464226	763519	GW	03					
	2600073-24	193	04	6.00	02	120	70				N	461402	762607	GW	03					
	2600073-25	193	04	6.00	02	120	70				N	460606	770331	GW	03					

	2600073-26	193	04	6.00	02	120	70				N	465880	771249	GW	03					
	2600073-27	193	04	16.00	02	120	70				N	467391	772313	GW	03					
	2600073-28	193	04	6.00	02	120	70				N	468642	771563	GW	03					
	2600073-29	193	04	6.00	02	120	70				N	466980	769873	GW	03					
	2600073-30	193	04	6.00	02	120	70				N	467701	769899	GW	03					
	2600073-31	193	04	6.00	02	120	70				N	464778	766494	GW	03					
	2600073-32	193	04	6.00	02	120	70				N	465895	766487	GW	03					
	2600073-33	193	04	6.00	02	120	70				N	467123	766551	GW	03					
	2600073-34	193	04	6.00	02	120	70				N	466552	764547	GW	03					
	2600073-35	193	04	6.00	02	120	70				N	469857	763504	GW	03					
	2600073-36	193	04	6.00	02	120	70				N	470945	772151	GW	03					
	2600073-37	193	04	10.00	02	120	70				N	472098	772069	GW	03					
	2600073-38	193	04	6.00	02	120	70				N	470325	770677	GW	03					
	2600073-39	193	04	6.00	02	120	70				N	469905	767808	GW	03					
	2600073-40	193	04	6.00	02	120	70				N	472515	767853	GW	03					
	2600073-41	193	04	6.00	02	120	70				N	474573	768281	GW	03					
	2600073-42	193	04	6.00	02	120	70				N	474418	767561	GW	03					
	2600073-43	193	04	6.00	02	120	70				N	471325	764676	GW	03					
	2600073-44	193	04	6.00	02	120	70				N	471325	763533	GW	03					
	2600073-45	193	04	6.00	02	120	70				N	473765	763270	GW	03					
	2600073-46	193	04	6.00	02	120	70				N	473472	769061	GW	03					
	2600073-47	193	04	6.00	02	120	70				N	471367	762910	GW	03					
	2600073-48	193	04	6.00	02	120	70				N	472572	770552	GW	03					
	2600073-175	193	01	10.00	02	100	60			600		460551	763400	GW	03					
	2600073-176	193	01	10.00	02	100	60			600		463348	763454	GW	03					
	2600073-177	193	01	10.00	02	100	60			600		460326	765916	GW	03					
	2600073-178	193	01	10.00	02	100	60			600		463133	765806	GW	03					
	2600073-179	193	01	10.00	02	100	60			600		460641	768454	GW	03					
	2600073-180	193	01	10.00	02	100	60			600		460652	770901	GW	03					
	2600073-181	193	01	10.00	02	100	60			600		463371	770956	GW	03					
	2600073-182	193	01	10.00	02	100	60			600		462800	768558	GW	03					
	2600073-183	193	01	10.00	02	100	60			600		464859	765593	GW	03					
	2600073-184	193	01	10.00	02	100	60			600		466946	765670	GW	03					
	2600073-185	193	01	10.00	02	100	60			600		469573	765682	GW	03					
	2600073-186	193	01	10.00	02	100	60			600		465244	762510	GW	03					
	2600073-187	193	01	10.00	02	100	60			600		468560	762751	GW	03					
	2600073-188	193	01	10.00	02	100	60			600		464965	768315	GW	03					
	2600073-189	193	01	10.00	02	100	60			600		467301	768327	GW	03					
	2600073-190	193	01	10.00	02	100	60			600		469381	768398	GW	03					
	2600073-191	193	01	10.00	02	100	60			600		465025	770902	GW	03					
	2600073-192	193	01	10.00	02	100	60			600		467282	771039	GW	03					
	2600073-193	193	01	10.00	02	100	60			600		470944	770821	GW	03					
	2600073-194	193	01	10.00	02	100	60			600		473404	770971	GW	03					
	2600073-195	193	01	10.00	02	100	60			600		473466	768350	GW	03					
	2600073-196	193	01	10.00	02	100	60			600		471012	768620	GW	03					
	2600073-197	193	01	10.00	02	100	60			600		473687	765281	GW	03					
	2600073-198	193	01	10.00	02	100	60			600		471283	765456	GW	03					
	2600073-199	193	01	10.00	02	100	60			600		473778	763044	GW	03					
	2600073-200	193	01	10.00	02	100	60			600		471357	763117	GW	03					
2600075	63.86		C3	11.72	02	26	4/87	AG	GW	3		D. B. TOWNSEND				20	0.8	15	63	0.50
	2600075-10	172	01	3.00	02	60	40		01	200	N	357476	801361	GW	03					
	2600075-11	172	01	3.00	02	60	40		01	200	N	355743	801313	GW	03					
	2600075-12	172	01	3.00	02	60	40		01	250	N	356482	801323	GW	03					
2600078	73.00		C3	.02	C1	26	1/89	AG	GW	4		LABELLE PLANT WORLD				61	0.8	15	40	0.50
	2600078-16	154	01	6.00	02	100				1500	N	350316	876480	GW	04					
	2600078-17	154	01	6.00	02	45					N	349681	873498	GW	01					

	2600078-119	154	01	6.00	02	60				240		349996	875085	GW	01					
	2600078-120	154	01	10.00	02	65				240		350213	875054	GW	01					
2600079	33.56		03			26	3/77	AG	GW	4		LAWAYNE RAWLS				13	0.8	15	143	0.85
	2600079-	172	01	6.00	02	30	20			600	N	354900	806400	GW	01					
	2600079-	172	01	6.00	02	80					N	354900	806400	GW	03					
	2600079-	172	01	6.00	02	80					N	354900	806400	GW	03					
	2600079-	172	01	8.00	02	160					N	354900	806400	GW	04					
2600080	433.68		03			26	2/85	AG	GW	21		M. J. FLIPSE				20	0.8	15	5290	0.50
	2600080-18	154	01	6.00	02	30	15			900	N	365431	859635	GW	01					
	2600080-19	154	01	6.00	02	30	15			900	N	365025	861630	GW	01					
	2600080-20	154	01	6.00	02	30	15			900	N	365068	853887	GW	01					
	2600080-21	154	01	6.00	02	30	15			900	N	362354	853907	GW	01					
	2600080-22	154	01	8.00	02	30	15			900	N	372524	861764	GW	01					
	2600080-23	154	01	6.00	02	30	15			900	N	367572	859434	GW	01					
	2600080-24	154	01	6.00	02	30	15			900	N	369976	857006	GW	01					
	2600080-25	154	01	8.00	02	30	15			900	N	373622	861687	GW	01					
	2600080-26	154	01	8.00	02	30	15			900	N	377162	861719	GW	01					
	2600080-27	154	01	8.00	02	30	15			900	N	372887	859308	GW	01					
	2600080-28	154	01	6.00	02	30	15			900	N	374917	856852	GW	01					
	2600080-29	154	01	8.00	02	30	15			900	N	376401	856951	GW	01					
	2600080-30	154	01	6.00	02	30	15			900	N	377377	856985	GW	01					
	2600080-31	154	01	6.00	02	30	15			900	N	367944	856554	GW	01					
	2600080-32	154	01	6.00	02	30	15			900	N	370035	856543	GW	01					
	2600080-33	154	01	6.00	02	30	15			900	N	371780	856546	GW	01					
	2600080-34	154	01	6.00	02	30	15			900	N	373371	856538	GW	01					
	2600080-35	154	01	6.00	02	30	15			900	N	370174	851512	GW	01					
	2600080-19	155	01	6.00	02	30	15			900	N	411881	841625	GW	01					
	2600080-20	155	01	6.00	02	30	15			900	N	410586	841565	GW	01					
	2600080-21	155	01	8.00	02	30	15			900	N	416278	836282	GW	01					
2600083	131.77		03	26.55	02	26	12/87	AG	GW	11		CROOKS RANCH				61	0.8	26	135	0.50
	2600083-49	193	03	6.00	02	80	50					459457	772693	GW	03					
	2600083-50	193	03	6.00	02	80	50					459907	774400	GW	03					
	2600083-51	193	01	6.00	02	80	50			1000		459364	775622	GW	03					
	2600083-52	193	01	6.00	02	80	50			1100		461595	778078	GW	03					
	2600083-53	193	03	6.00	02	80	50					462786	782093	GW	03					
	2600083-54	193	01	6.00	02	80	50			1200		465273	774925	GW	03					
	2600083-55	193	01	6.00	02	80	50			1000		464992	778043	GW	03					
	2600083-56	193	03	6.00	02	80	50					466776	782406	GW	03					
	2600083-57	193	03	6.00	02	80	50					468486	783273	GW	03					
	2600083-58	193	01	6.00	02	80	50			1100		467885	785566	GW	03					
	2600083-59	193	03	6.00	02	80	50					468311	787158	GW	03					
2600085	3631.20		03	695.20	02	26	8/88	AG	BOTH	16		1 LYKES				25 20	0.8	26	900	0.50
2600085																61	0.8	26	600	0.50
	2600085-116	194	01	6.00	02	100				500	N	507085	767676	GW	03					
	2600085-117	194	01	8.00	02	100				700	N	507203	768936	GW	03					
	2600085-118	194	01	6.00	02	100				500	N	506926	770444	GW	03					
	2600085-119	194	01	8.00	02	100				700	N	507972	771349	GW	03					
	2600085-120	194	01	6.00	02	100				500	N	507998	772635	GW	03					
	2600085-121	194	01	8.00	02	100				700	N	507609	774707	GW	03					
	2600085-122	194	01	6.00	02	100				500	N	507329	776481	GW	03					
	2600085-123	194	01	8.00	02	100				700	N	510997	775478	GW	03					
	2600085-124	194	01	6.00	02	100				500	N	510202	775454	GW	03					
	2600085-125	194	01	8.00	02	100				700	N	512034	776807	GW	03					
	2600085-126	194	01	6.00	02	100				500	N	511978	776862	GW	03					

	2600085-127	194	01	8.00	02	100				700	N	511271	777622	GW	03					
	2600085-128	194	01	6.00	02	100				500	N	509507	777536	GW	03					
	2600085-129	194	01	8.00	02	100				700	N	510401	778037	GW	03					
	2600085-130	194	01	6.00	02	100				500	N	511115	778418	GW	03					
	2600085-SW	194	01							3500	N			SW						
2600087				1480.00	02	26	3/88	AG	GW	101		ROBERT E. McDANIEL, SR.				13	0.8	26	3480	0.85
2600087																61	0.8	26	1000	0.50
2600087																20	0.8	26	3164	0.50
	2600087-32	208	01	6.00	02	100	60			600	N	484278	741836	GW	03					
	2600087-33	208	01	6.00	02	100	60			600	N	492689	741854	GW	03					
	2600087-34	208	01	6.00	02	100	60			600	N	499692	740291	GW	03					
	2600087-35	208	01	6.00	02	100	60			600	N	499041	737909	GW	03					
	2600087-36	208	01	6.00	02	100	60			600	N	499993	738093	GW	03					
	2600087-37	208	01	6.00	02	100	60			600	N	494097	740997	GW	03					
	2600087-38	208	01	6.00	02	100	60			600	N	494095	738397	GW	03					
	2600087-39	208	01	6.00	02	100	60			600	N	495472	736793	GW	03					
	2600087-40	208	01	6.00	02	100	60			600	N	494152	734794	GW	03					
	2600087-41	208	01	6.00	02	100	60			600	N	493805	733869	GW	03					
	2600087-42	208	01	6.00	02	100	60			600	N	494605	733900	GW	03					
	2600087-43	208	01	6.00	02	100	60			600	N	494284	732906	GW	03					
	2600087-44	208	01	6.00	02	100	60			600	N	499994	733324	GW	03					
	2600087-45	208	01	6.00	02	100	60			600	N	499800	742750	GW	03					
	2600087-110	193	01	6.00	02	100	60			600	N	497464	761861	GW	03					
	2600087-111	193	01	6.00	02	100	60			600	N	496769	761141	GW	03					
	2600087-112	193	01	6.00	02	100	60			600	N	500021	758735	GW	03					
	2600087-113	193	01	6.00	02	100	60			600	N	491482	761621	GW	03					
	2600087-114	193	01	6.00	02	100	60			600	N	492504	761680	GW	03					
	2600087-115	193	01	6.00	02	100	60			600	N	493369	761735	GW	03					
	2600087-116	193	01	6.00	02	100	60			600	N	494997	761302	GW	03					
	2600087-117	193	01	6.00	02	100	60			600	N	491527	760294	GW	03					
	2600087-118	193	01	6.00	02	100	60			600	N	493372	760212	GW	03					
	2600087-119	193	01	6.00	02	100	60			600	N	494397	760450	GW	03					
	2600087-120	193	01	6.00	02	100	60			600	N	492880	758853	GW	03					
	2600087-121	193	01	6.00	02	100	60			600	N	495658	759005	GW	03					
	2600087-122	193	01	6.00	02	100	60			600	N	499825	754152	GW	03					
	2600087-123	193	01	6.00	02	100	60			600	N	498574	753861	GW	03					
	2600087-124	193	01	6.00	02	100	60			600	N	497231	754619	GW	03					
	2600087-125	193	01	6.00	02	100	60			600	N	495509	757014	GW	03					
	2600087-126	193	01	6.00	02	100	60			600	N	494366	755602	GW	03					
	2600087-127	193	01	6.00	02	100	60			600	N	494942	755078	GW	03					
	2600087-128	193	01	6.00	02	100	60			600	N	492708	754444	GW	03					
	2600087-129	193	01	6.00	02	100	60			600	N	493438	753821	GW	03					
	2600087-130	193	01	6.00	02	100	60			600	N	492147	752521	GW	03					
	2600087-131	193	01	6.00	02	100	60			600	N	498150	751434	GW	03					
	2600087-132	193	01	6.00	02	100	60			600	N	497151	751268	GW	03					
	2600087-133	193	01	6.00	02	100	60			600	N	495676	748844	GW	03					
	2600087-134	193	01	6.00	02	100	60			600	N	494703	749234	GW	03					
	2600087-135	193	01	6.00	02	100	60			600	N	494534	750116	GW	03					
	2600087-136	193	01	6.00	02	100	60			600	N	494606	750810	GW	03					
	2600087-137	193	01	6.00	02	100	60			600	N	492303	751342	GW	03					
	2600087-138	193	01	6.00	02	100	60			600	N	489068	760715	GW	03					
	2600087-139	193	01	6.00	02	100	60			600	N	483492	760452	GW	03					
	2600087-140	193	01	6.00	02	100	60			600	N	483895	760036	GW	03					
	2600087-141	193	01	6.00	02	100	60			600	N	485302	757313	GW	03					
	2600087-142	193	01	6.00	02	100	60			600	N	476391	760645	GW	03					
	2600087-143	193	01	6.00	02	100	60			600	N	478874	760654	GW	03					
	2600087-144	193	01	6.00	02	100	60			600	N	477025	757520	GW	03					

	2600087-145	193	01	6.00	02	100	60			600	N	478830	756906	GW	03					
	2600087-146	193	01	6.00	02	100	60			600	N	476065	756039	GW	03					
	2600087-147	193	01	6.00	02	100	60			600	N	475557	755496	GW	03					
	2600087-148	193	01	6.00	02	100	60			600	N	477479	753667	GW	03					
	2600087-149	193	01	6.00	02	100	60			600	N	481377	753662	GW	03					
	2600087-150	193	01	6.00	02	100	60			600	N	481252	752788	GW	03					
	2600087-151	193	01	6.00	02	100	60			600	N	486262	756481	GW	03					
	2600087-152	193	01	6.00	02	100	60			600	N	487775	756794	GW	03					
	2600087-153	193	01	6.00	02	100	60			600	N	488567	753970	GW	03					
	2600087-154	193	01	6.00	02	100	60			600	N	486273	752170	GW	03					
	2600087-155	193	01	6.00	02	100	60			600	N	491126	747831	GW	03					
	2600087-156	193	01	6.00	02	100	60			600	N	492557	747342	GW	03					
	2600087-157	193	01	6.00	02	100	60			600	N	490276	751126	GW	03					
	2600087-158	193	01	6.00	02	100	60			600	N	488431	750344	GW	03					
	2600087-159	193	01	6.00	02	100	60			600	N	486278	749100	GW	03					
	2600087-160	193	01	6.00	02	100	60			600	N	483822	749812	GW	03					
	2600087-161	193	01	6.00	02	100	60			600	N	475951	750825	GW	03					
	2600087-162	193	01	6.00	02	100	60			600	N	476411	747378	GW	03					
	2600087-163	193	01	6.00	02	100	60			600	N	478996	746991	GW	03					
	2600087-164	193	01	6.00	02	100	60			600	N	479452	742735	GW	03					
	2600087-165	193	01	6.00	02	100	60			600	N	483403	743615	GW	03					
	2600087-166	193	01	6.00	02	100	60			600	N	485175	742350	GW	03					
	2600087-167	193	01	6.00	02	100	60			600	N	486275	742113	GW	03					
	2600087-168	193	01	6.00	02	100	60			600	N	487373	742139	GW	03					
	2600087-169	193	01	6.00	02	100	60			600	N	487308	743417	GW	03					
	2600087-170	193	01	6.00	02	100	60			600	N	491291	742704	GW	03					
	2600087-172	193	01	6.00	02	100	60			600	N	494174	745314	GW	03					
	2600087-173	193	01	6.00	02	100	60			600	N	498115	745830	GW	03					
	2600087-174	193	01	6.00	02	100	60			600	N	498068	743487	GW	03					
	2600087-96	194	01	6.00	02	100	60			600	N	496827	742866	GW	03					
	2600087-97	194	01	6.00	02	100	60			600	N	505091	762190	GW	03					
	2600087-98	194	01	6.00	02	100	60			600	N	504977	761071	GW	03					
	2600087-99	194	01	6.00	02	100	60			600	N	504977	758862	GW	03					
	2600087-100	194	01	6.00	02	100	60			600	N	504937	757189	GW	03					
	2600087-101	194	01	6.00	02	100	60			600	N	505723	757179	GW	03					
	2600087-102	194	01	6.00	02	100	60			600	N	506369	757260	GW	03					
	2600087-103	194	01	6.00	02	100	60			600	N	505559	753917	GW	03					
	2600087-104	194	01	6.00	02	100	60			600	N	505806	752678	GW	03					
	2600087-105	194	01	6.00	02	100	60			600	N	500623	756865	GW	03					
	2600087-106	194	01	6.00	02	100	60			600	N	503380	751682	GW	03					
	2600087-107	194	01	6.00	02	100	60			600	N	505414	752018	GW	03					
	2600087-108	194	01	6.00	02	100	60			600	N	505795	751517	GW	03					
	2600087-109	194	01	6.00	02	100	60			600	N	505187	749527	GW	03					
	2600087-110	194	01	6.00	02	100	60			600	N	503176	748991	GW	03					
	2600087-111	194	01	6.00	02	100	60			600	N	500081	750626	GW	03					
	2600087-112	194	01	6.00	02	100	60			600	N	500169	742808	GW	03					
	2600087-113	194	01	6.00	02	100	60			600	N	502351	744592	GW	03					
	2600087-114	194	01	6.00	02	100	60			600	N	504595	745138	GW	03					
	2600087-115	194	01	6.00	02	100	60			600	N	504783	744119	GW	03					
	2600087-13	209	01	6.00	02	100	60			600	N	503215	736674	GW	03					
	2600087-14	209	01	6.00	02	100	60			600	N	504405	737530	GW	03					
	2600087-15	209	01	6.00	02	100	60			600	N	505546	736544	GW	03					
2600088	323.77		03	57.18	02	26	7/87	AG	GW	2		S. C. FRY				20	0.8	26	320	0.50
	2600088-29	208	01	8.00	02	120				1200	N	484255	730321	GW	03					
	2900088-30	208	01	8.00	02	120				1200	N	484342	727390	GW	03					
2600089	173.67		03			26	11/77	AG	GW	2		CROOKS RANCH				20	0.8	26	800	0.50

	2600089-31	192	01	6.00	02	80	50				N	420125	770186	GW	03					
	2600089-32	192	01	6.00	02	80	50				N	423937	773205	GW	03					
2600094	6117.37		03	2230.29	02	26	6/87	AG	GW	122		USSC - SOUTHERN DIVISION CITRUS				13	0.8	26	13300	0.85
	2600094-17	194	01	10.00	02	120						508061	761263	GW	03					
	2600094-18	194	01	10.00	02	122						510381	761265	GW	03					
	2600094-19	194	01	10.00	02	145						513125	761564	GW	03					
	2600094-20	194	01		02	130						515228	761645	GW	03					
	2600094-21	194	01	8.00	02	115						517048	761656	GW	03					
	2600094-22	194	01	8.00	02	115						517160	758719	GW	03					
	2600094-23	194	01	8.00	02	110						515040	758701	GW	03					
	2600094-24	194	01	10.00	02							512315	758756	GW	03					
	2600094-25	194	01		02	120						511061	758611	GW	03					
	2600094-26	194	01		02	125						510545	758585	GW	03					
	2600094-27	194	01	10.00	02	140						508171	758461	GW	03					
	2600094-28	194	01		02	165						507559	758466	GW	03					
	2600094-29	194	01	8.00	02	160						507969	757062	GW	03					
	2600094-30	194	01	8.00	02	120						508606	757126	GW	03					
	2600094-31	194	01	10.00	02	120						510727	756083	GW	03					
	2600094-32	194	01	10.00	02	132						512648	756158	GW	03					
	2600094-33	194	01	10.00	02	140						514811	756450	GW	03					
	2600094-34	194	01		02	140						516991	756564	GW	03					
	2600094-35	194	01	10.00	02	140						515782	754070	GW	03					
	2600094-36	194	01	10.00	02	180	72					512531	753878	GW	03					
	2600094-37	194	01	8.00	02	140						510812	753596	GW	03					
	2600094-38	194	01	10.00	02	120						507965	753466	GW	03					
	2600094-39	194	03		02							508249	751146	GW	03					
	2600094-40	194	03		02							510799	751150	GW	03					
	2600094-41	194	03		02							512456	751094	GW	03					
	2600094-42	194	03		02							517186	748130	GW	03					
	2600094-43	194	03		02							515474	748146	GW	03					
	2600094-44	194	03		02							512690	748132	GW	03					
	2600094-45	194	03		02							511053	748136	GW	03					
	2600094-46	194	03		02							508304	748254	GW	03					
	2600094-47	194	03		02							508539	745437	GW	03					
	2600094-48	194	03		02							511216	745516	GW	03					
	2600094-49	194	03		02							512898	745568	GW	03					
	2600094-50	194	03		02							515522	745508	GW	03					
	2600094-51	194	03		02							517169	745493	GW	03					
	2600094-52	194	03		02							517121	742936	GW	03					
	2600094-53	194	03		02							515573	742879	GW	03					
	2600094-54	194	03		02							512969	742972	GW	03					
	2600094-55	194	03		02							511381	742793	GW	03					
	2600094-56	194	03		02							508677	742685	GW	03					
	2600094-131	194	03	10.00	02	120	80			450		516049	752575	GW	03					
	2600094-132	194	03	10.00	02	120	80			450		518479	751217	GW	03					
	2600094-133	194	03	10.00	02	120	80			450		518698	748101	GW	03					
	2600094-134	194	03	10.00	02	120	80			450		520508	748197	GW	03					
	2600094-135	194	03	10.00	02	120	80			450		518480	745495	GW	03					
	2600094-136	194	03	10.00	02	120	80			450		520292	745450	GW	03					
	2600094-137	194	03	10.00	02	120	80			450		522226	745584	GW	03					
	2600094-138	194	03	10.00	02	120	80			450		519403	742858	GW	03					
	2600094-139	194	03	10.00	02	120	80			450		521717	742846	GW	03					
	2600094-140	194	03	10.00	02	120	80			450		524098	742763	GW	03					
	2600094-1	209	03		02							508687	740458	GW	03					
	2600094-2	209	03		02							511313	740587	GW	03					
	2600094-3	209	03		02							512904	740662	GW	03					
	2600094-4	209	03		02							514974	740692	GW	03					

2600094-5	209	03		02				517157	740776	GW	03
2600094-6	209	03		02				517376	737182	GW	03
2600094-7	209	03		02				515228	737135	GW	03
2600094-8	209	03		02				512199	738146	GW	03
2600094-9	209	03		02				509147	738309	GW	03
2600094-10	209	03		02				508653	735062	GW	03
2600094-11	209	03		02				508853	732513		
2600094-16	209	03	10.00	02	120	80	450	518880	740787	GW	03
2600094-17	209	03	10.00	02	120	80	450	520547	740821	GW	03
2600094-18	209	03	10.00	02	120	80	450	522745	740846	GW	03
2600094-19	209	03	10.00	02	120	80	450	519465	737448	GW	03
2600094-20	209	03	10.00	02	120	80	450	521928	737467	GW	03
2600094-21	209	03	10.00	02	120	80	450	525077	737692	GW	03
2600094-22	209	03	10.00	02	120	80	450	527392	737758	GW	03
2600094-23	209	03	10.00	02	120	80	450	513361	731854	GW	03
2600094-24	209	03	10.00	02	120	80	450	516401	732081	GW	03
2600094-25	209	03	10.00	02	120	80	450	515721	734911	GW	03
2600094-26	209	03	10.00	02	120	80	450	517620	735000	GW	03
2600094-27	209	03	10.00	02	120	80	450	520445	734884	GW	03
2600094-28	209	03	10.00	02	120	80	450	522801	734881	GW	03
2600094-29	209	03	10.00	02	120	80	450	517745	732008	GW	03
2600094-30	209	03	10.00	02	120	80	450	520667	732436	GW	03
2600094-31	209	03	10.00	02	120	80	450	522783	732483	GW	03
2600094-32	209	03	10.00	02	120	80	450	524745	735214	GW	03
2600094-33	209	03	10.00	02	120	80	450	526496	735137	GW	03
2600094-34	209	03	10.00	02	120	80	450	524852	732578	GW	03
2600094-35	209	03	10.00	02	120	80	450	526598	732551	GW	03
2600094-36	209	03	10.00	02	120	80	450	529694	732513	GW	03
2600094-37	209	03	10.00	02	120	80	450	509155	729048	GW	03
2600094-38	209	03	10.00	02	120	80	450	512234	729125	GW	03
2600094-39	209	03	10.00	02	120	80	450	508556	726995	GW	03
2600094-40	209	03	10.00	02	120	80	450	511367	726964	GW	03
2600094-41	209	03	10.00	02	120	80	450	514622	729330	GW	03
2600094-42	209	03	10.00	02	120	80	450	516938	729346	GW	03
2600094-43	209	03	10.00	02	120	80	450	512757	726912	GW	03
2600094-44	209	03	10.00	02	120	80	450	515049	726941	GW	03
2600094-45	209	03	10.00	02	120	80	450	517394	726958	GW	03
2600094-46	209	03	10.00	02	120	80	450	519207	729667	GW	03
2600094-47	209	03	10.00	02	120	80	450	521766	729802	GW	03
2600094-48	209	03	10.00	02	120	80	450	519230	727571	GW	03
2600094-49	209	03	10.00	02	120	80	450	521862	727487	GW	03
2600094-50	209	03	10.00	02	120	80	450	523238	729741	GW	03
2600094-51	209	03	10.00	02	120	80	450	525524	729761	GW	03
2600094-52	209	03	10.00	02	120	80	450	527593	729859	GW	03
2600094-53	209	03	10.00	02	120	80	450	523236	727383	GW	03
2600094-54	209	03	10.00	02	120	80	450	525681	727303	GW	03
2600094-55	209	03	10.00	02	120	80	450	527665	727331	GW	03
2600094-56	209	03	10.00	02	120	80	450	531274	729679	GW	03
2600094-57	209	03	10.00	02	120	80	450	530984	727520	GW	03
2600094-58	209	03	10.00	02	120	80	450	532710	727364	GW	03
2600094-59	209	03	10.00	02	120	80	450	513860	724660	GW	03
2600094-60	209	03	10.00	02	120	80	450	513927	721608	GW	03
2600094-61	209	03	10.00	02	120	80	450	516630	721532	GW	03
2600094-62	209	03	10.00	02	120	80	450	519093	724785	GW	03
2600094-63	209	03	10.00	02	120	80	450	521784	724872	GW	03
2600094-64	209	03	10.00	02	120	80	450	519053	721885	GW	03
2600094-65	209	03	10.00	02	120	80	450	521552	721898	GW	03
2600094-66	209	03	10.00	02	120	80	450	523206	724850	GW	03

	2600094-67	209	03	10.00	02	120	80			450			525509	724886	GW	03					
	2600094-68	209	03	10.00	02	120	80			450			528044	724926	GW	03					
	2600094-69	209	03	10.00	02	120	80			450			523316	721550	GW	03					
	2600094-70	209	03	10.00	02	120	80			450			525701	721518	GW	03					
	2600094-71	209	03	10.00	02	120	80			450			528127	721651	GW	03					
	2600094-72	209	03	10.00	02	120	80			450			530959	724738	GW	03					
	2600094-73	209	03	10.00	02	120	80			450			533155	724868	GW	03					
	2600094-74	209	03	10.00	02	120	80			450			531003	721630	GW	03					
	2600094-75	209	03	10.00	02	120	80			450					GW	03					
2600095	36.25		03	.361	01	26	6/87	AG	BOTH	3		1	E. C. MILLS				13	1.5	15	26	0.75
2600095																	20	1.5	15	20	0.50
	2600095-4	153	01	6.00	02	700				50	N		332626	878630	GW	08					
	2600095-5	153	02	8.00	02	60	20		01	250	N		332991	878339	GW	03					
	2600095-6	153	02	8.00	02	60	20		01	250	N		333012	877862	GW	03					
	2600095-SW	153	01							750			332350	877500	SW						
2600098	303.54		03	53.61	02	26	10/87	AG	GW	3			FRANK P. HARBEN				20	0.8	26	320	0.50
	2600098-57	194	01	8.00	02	50	20			750	N		510531	784064	GW	01					
	2600098-58	194	01	8.00	02	50	20			750	N		508901	782796	GW	01					
	2600098-59	194	03	8.00	02	50	20				N		506697	782938	GW	01					
2600108	15532		03	1276.60	02	26	8/88	AG	GW	129			ALICO				20	0.8	15	23200	0.50
	2600108-14	175	01	6.00	02	80					N		497087	802369	GW	03					
	2600108-15	175	01	6.00	02	80					N		496751	805438	GW	03					
	2600108-16	175	01	6.00	02	80					N		497252	806152	GW	03					
	2600108-17	175	01	6.00	02	80					N		496555	810852	GW	03					
	2600108-18	175	01	6.00	02	80					N		496238	811730	GW	03					
	2600108-19	175	01	6.00	02	80					N		498462	821350	GW	03					
	2600108-20	175	01	6.00	02	80					N		490043	826170	GW	03					
	2600108-21	175	01	6.00	02	80					N		493036	824819	GW	03					
	2600108-22	175	01	6.00	02	80					N		491188	817680	GW	03					
	2600108-23	175	01	6.00	02	80					N		492792	816085	GW	03					
	2600108-24	175	01	6.00	02	80					N		492746	812034	GW	03					
	2600108-25	175	01	6.00	02	80					N		495004	812401	GW	03					
	2600108-26	175	01	6.00	02	80					N		493732	811285	GW	03					
	2600108-27	175	01	8.00	02	80					N		493020	808982	GW	03					
	2600108-28	175	01	6.00	02	80					N		490371	807664	GW	03					
	2600108-29	175	01	8.00	02	80					N		491682	807199	GW	03					
	2600108-30	175	01	6.00	02	80					N		491436	806630	GW	03					
	2600108-31	175	01	6.00	02	80					N		493430	799428	GW	03					
	2600108-32	175	01	6.00	02	80					N		489800	799165	GW	03					
	2600108-33	175	01	6.00	02	130	47				N		489383	801957	GW	03					
	2600108-34	175	01	8.00	02	80					N		485211	808782	GW	03					
	2600108-35	175	01	8.00	02	80					N		485168	810005	GW	03					
	2600108-36	175	01	8.00	02	80					N		489993	810489	GW	03					
	2600108-37	175	01	6.00	02	80				800	N		481987	796735	GW	03					
	2600108-38	175	01	8.00	02	80				800	N		481543	797001	GW	03					
	2600108-39	175	01	6.00	02	80				800	N		484690	798476	GW	03					
	2600108-40	175	01	6.00	02	80				800	N		481647	801095	GW	03					
	2600108-41	175	01	6.00	02	80				800	N		485133	801814	GW	03					
	2600108-42	175	01	6.00	02	80					N		481232	803097	GW	03					
	2600108-43	175	01	6.00	02	80					N		484934	804985	GW	03					
	2600108-44	175	01	6.00	02	80					N		480096	804951	GW	03					
	2600108-45	175	01	10.00	02	80					N		479903	806475	GW	03					
	2600108-46	175	01	10.00	02	80					N		481309	809645	GW	03					
	2600108-47	175	01	6.00	02	80					N		483638	812450	GW	03					
	2600108-48	175	01	10.00	02	80					N		482634	814655	GW	03					

2600108-49	175	01	10.00	02	80		N	480626	815890	GW	03
2600108-50	175	01	6.00	02	80		N	478719	796345	GW	03
2600108-51	175	01	6.00	02	80		N	477748	803704	GW	03
2600108-52	175	01	6.00	02	80		N	475758	804637	GW	03
2600108-53	175	01	6.00	02	80		N	478823	805025	GW	03
2600108-54	175	01	8.00	02	80		N	475897	806632	GW	03
2600108-55	175	01	8.00	02	80		N	475843	806878	GW	03
2600108-56	175	01	6.00	02	80		N	475965	807987	GW	03
2600108-57	175	01	8.00	02	80		N	479459	814168	GW	03
2600108-58	175	01	6.00	02	80		N	477698	819072	GW	03
2600108-59	175	01	6.00	02	80		N	471954	789761	GW	03
2600108-60	175	01	6.00	02	80		N	469641	789748	GW	03
2600108-61	175	01	6.00	02	80		N	470796	793091	GW	03
2600108-62	175	01	6.00	02	80		N	471321	795354	GW	03
2600108-63	175	01	6.00	02	80		N	469812	794863	GW	03
2600108-64	175	01	6.00	02	80		N	470573	795855	GW	03
2600108-65	175	01	6.00	02	80		N	473882	799466	GW	03
2600108-66	175	01	6.00	02	80		N	473263	802057	GW	03
2600108-67	175	01	6.00	02	80		N	472509	803257	GW	03
2600108-68	175	01	8.00	02	80		N	473228	804711	GW	03
2600108-69	175	01	6.00	02	80		N	472984	806156	GW	03
2600108-70	175	01	6.00	02	80		N	470288	806550	GW	03
2600108-71	175	01	6.00	02	80		N	474323	809962	GW	03
2600108-72	175	01	6.00	02	80		N	473173	811396	GW	03
2600108-73	175	01	6.00	02	80		N	469317	814526	GW	03
2600108-74	175	01	6.00	02	80		N	470667	817696	GW	03
2600108-75	175	01	6.00	02	80		N	469595	818004	GW	03
2600108-76	175	01	6.00	02	80		N	470536	822133	GW	03
2600108-77	175	01	6.00	02	80	800	N	469173	796457	GW	03
2600108-78	175	01	8.00	02	80		N	468368	801661	GW	03
2600108-79	175	01	6.00	02	80		N	465729	812753	GW	03
2600108-80	175	01	6.00	02	80		N	465691	813635	GW	03
2600108-81	175	01	6.00	02	80	800	N	467416	813196	GW	03
2600108-82	175	01	6.00	02	80	800	N	468081	813849	GW	03
2600108-83	175	01	6.00	02	80		N	467992	818369	GW	03
2600108-84	175	01	6.00	02	80		N	467957	818818	GW	03
2600108-85	175	01	8.00	02	80		N	461865	794663	GW	03
2600108-86	175	01	8.00	02	80		N	462631	795389	GW	03
2600108-8	174	01	6.00	02	80	800	N	456362	794403	GW	03
2600108-9	174	01	6.00	02	80	800	N	453491	796851	GW	03
2600108-10	174	01	6.00	02	80	800	N	457688	799141	GW	03
2600108-11	174	01	6.00	02	80	600	N	458293	811266	GW	03
2600108-12	174	01	6.00	02	80	800	N	452591	800268	GW	03
2600108-13	174	01	6.00	02	80	800	N	449582	801416	GW	03
2600108-14	174	01	6.00	02	80	800	N	451170	802132	GW	03
2600108-15	174	01	6.00	02	80	800	N	450107	804443	GW	03
2600108-16	174	01	6.00	02	80		N	450805	805584	GW	03
2600108-17	174	01	6.00	02	80		N	450381	808527	GW	03
2600108-18	174	01	6.00	02	80		N	444994	800972	GW	03
2600108-19	174	01	6.00	02	80		N	446827	804761	GW	03
2600108-20	174	01	8.00	02	80		N	442745	807866	GW	03
2600108-21	174	01	8.00	02	80		N	443107	808164	GW	03
2600108-22	174	01	6.00	02	80		N	442696	814456	GW	03
2600108-23	174	01	6.00	02	80	378	N	441362	795660	GW	03
2600108-24	174	01	6.00	02	80	800	N	441061	796419	GW	03
2600108-25	174	01	6.00	02	80	800	N	439637	796921	GW	03
2600108-26	174	01	6.00	02	80	800	N	439488	797811	GW	03
2600108-27	174	01	6.00	02	80		N	442029	802393	GW	03

	2600108-28	174	01	6.00	02	80					N	441841	803799	GW	03					
	2600108-29	174	01	6.00	02	80					N	441299	803830	GW	03					
	2600108-30	174	01	6.00	02	80					N	440307	807003	GW	03					
	2600108-31	174	01	6.00	02	80					N	425787	800031	GW	03					
	2600108-32	174	01	4.00	02	80				800	N	421996	814401	GW	03					
	2600108-33	174	01	6.00	02	80				800	N	422021	815107	GW	03					
	2600108-34	174	01		02	80					N	424383	816071	GW	03					
	2600108-35	174	01	4.00	02	80					N	418369	809667	GW	03					
	2600108-36	174	01	4.00	02	80					N	418900	809593	GW	03					
	2600108-37	174	01	4.00	02	80					N	420772	809583	GW	03					
	2600108-38	174	01	6.00	02	80				850	N	418332	811213	GW	03					
	2600108-39	174	01	6.00	02	80				750	N	420234	811548	GW	03					
	2600108-40	174	01		02	80					N	458708	810067	GW	03					
	2600108-41	174	01	6.00	02	80					N	459151	808221	GW	03					
	2600108-42	174	01	6.00	02	80					N			GW	03					
	2600108-1	173	01	6.00	02	80				800	N	417573	813793	GW	03					
	2600108-2	173	01	6.00	02	80				800	N	416060	814337	GW	03					
	2600108-3	173	01	3.00	02	80					N	413494	809661	GW	03					
	2600108-4	173	01	6.00	02	80				800	N	414734	818732	GW	03					
	2600108-5	173	01	6.00	02	80				600	N	415575	821387	GW	03					
	2600108-6	173	01	6.00	02	80				800	N	408584	813770	GW	03					
	2600108-7	173	01	6.00	02	80				800	N	409677	816238	GW	03					
	2600108-8	173	01	6.00	02	80				375	N	407770	818132	GW	03					
	2600108-9	173	01	6.00	02	80				800	N	405239	819694	GW	03					
	2600108-10	173	01	6.00	02	80				800	N	405259	822290	GW	03					
	2600108-11	173	01	6.00	02	80				800	N	406661	823485	GW	03					
	2600108-12	173	01	6.00	02	80				800	N	408449	823314	GW	03					
	2600108-13	173	01	6.00	02	80				800	N	409165	823701	GW	03					
	2600108-14	173	01	6.00	02	80				800	N	405243	826560	GW	03					
	2600108-15	173	01	6.00	02	80				800	N	406762	828178	GW	03					
	2600108-16	173	01	6.00	02	80				800	N	404022	825080	GW	03					
	2600108-17	173	01	6.00	02	80				800	N	390359	822234	GW	03					
	2600108-6	155	01	4.00	02	80					N	387814	838804	GW	03					
	2600108-7	155	01	4.00	02	80					N	388529	837622	GW	03					
	2600108-8	155	01	4.00	02	80					N	387719	836576	GW	03					
	2600108-9	155	01	4.00	02	80					N	386907	836821	GW	03					
2600109	132.94		03			26	6/78	AG	GW	2		COLLIER DEVELOPMENT CORPORATION				61	0.8	26	612	0.50
	2600109-9	191	01	6.00	02	40				800	N	412587	759036	GW	03					
	2600109-10	191	01	8.00	02	52				800	N	414312	759923	GW	03					
2600110	56.69		03			26	6/78	AG	GW	1		CARLOS L. REYNOLDS				20	3.6	26	587	0.50
	2600110-10	176	01	8.00	02					328	N	516819	830730	GW						
2600112	3668.11		03	891.96	02	26	9/87	AG	GW	88		BARRON COLLIER III TRUST				61	0.8	26	3164	0.50
2600112																56	0.8	26	3164	0.50
	2600112-11	191	01	8.00	02	44						418099	757199	GW	03					
	2600112-12	191	01	8.00	02	54						416938	756302	GW	03					
	2600112-13	191	01	10.00	02	60						417500	751680	GW	03					
	2600112-10	206	01	9.00	02	66						413710	730475	GW	03					
	2600112-11	206	01	4.00	02	60						415731	728675	GW	03					
	2600112-12	206	01	6.00	02	54						412923	728627	GW	03					
	2600112-13	206	01	6.00	02	45						412350	726605	GW	03					
	2600112-14	206	01	9.00	02	43						412306	725527	GW	03					
	2600112-15	206	01	8.00	02	44						413115	724569	GW	03					
	2600112-16	206	01	8.00	02	53						415474	725966	GW	03					
	2600112-17	206	01	8.00	02	45						412375	722670	GW	03					
	2600112-18	206	01	8.00	02	46						413975	723415	GW	03					

2600112-19	206	01	9.00	02	49	415774	723421	GW	03
2600112-20	206	01	8.00	02	42	416316	722261	GW	03
2600112-21	206	01	8.00	02	67	415329	720621	GW	03
2600112-22	206	01	8.00	02	47	413105	721125	GW	03
2600112-23	206	01	6.00	02	51	412927	719774	GW	03
2600112-24	206	01	6.00	02	58	417366	722064	GW	03
2600112-25	206	01	8.00	02	52	417095	720986	GW	03
2600112-53	192	01	8.00	02	61	424993	759746	GW	03
2600112-54	192	01	6.00	02	66	424726	757279	GW	03
2600112-55	192	01	6.00	02	82	425830	757868	GW	03
2600112-56	192	01	6.00	02	86	425393	758858	GW	03
2600112-57	192	01	6.00	02	63	426792	758101	GW	03
2600112-58	192	01	6.00	02	40	431528	756588	GW	03
2600112-59	192	01	2.00	02		433196	757322	GW	03
2600112-60	192	01	2.00	02		428540	760581	GW	03
2600112-61	192	01	8.00	02	52	420414	758243	GW	03
2600112-62	192	01	2.00	02		420076	759211	GW	03
2600112-63	192	01	8.00	02	49	419334	757621	GW	03
2600112-64	192	01	8.00	02	61	428056	754313	GW	03
2600112-65	192	01	8.00	02	60	431829	747400	GW	03
2600112-66	192	01	8.00	02	62	427980	744465	GW	03
2600112-67	192	01	8.00	02	61	430532	742645	GW	03
2600112-68	192	01	8.00	02	47	421884	759200	GW	03
2600112-15	207	01	8.00	02	51	418177	722698	GW	03
2600112-16	207	01	6.00	02	149	419151	723154	GW	03
2600112-17	207	01	4.00	02	45	421004	720936	GW	03
2600112-18	207	01	10.00	02	91	420102	719907	GW	03
2600112-19	207	01	8.00	02	76	418176	719103	GW	03
2600112-20	207	01	10.00	02	52	422323	721060	GW	03
2600112-21	207	01	8.00	02	57	425862	720710	GW	03
2600112-22	207	01	8.00	02	48	431655	723888	GW	03
2600112-23	207	01	8.00	02	50	432731	724043	GW	03
2600112-24	207	01	8.00	02	52	435275	723381	GW	03
2600112-25	207	01	8.00	02	79	438534	723462	GW	03
2600112-26	207	01	8.00	02	73	439839	723586	GW	03
2600112-27	207	01	8.00	02	57	440124	722600	GW	03
2600112-28	207	01	8.00	02	77	441493	720907	GW	03
2600112-29	207	01	6.00	02	78	438538	722050	GW	03
2600112-30	207	01	6.00	02	64	438341	720673	GW	03
2600112-31	207	01	9.00	02	64	440111	720604	GW	03
2600112-32	207	01	6.00	02	65	440824	720844	GW	03
2600112-33	207	01	8.00	02	76	442149	719948	GW	03
2600112-34	207	01	6.00	02	70	439008	719576	GW	03
2600112-35	207	01	6.00	02	60	442067	718916	GW	03
2600112-36	207	01	6.00	02	58	442400	717412	GW	03
2600112-37	207	01	8.00	02	65	440596	716259	GW	03
2600112-38	207	01	8.00	02	66	439837	715917	GW	03
2600112-39	207	01	8.00	02	64	441532	716209	GW	03
2600112-40	207	01	6.00	02	64	439786	714452	GW	03
2600112-41	207	01	8.00	02	54	435205	718985	GW	03
2600112-42	207	01	8.00	02	53	435428	717710	GW	03
2600112-43	207	01	8.00	02	46	433307	714676	GW	03
2600112-44	207	01	8.00	02	67	429933	715888	GW	03
2600112-45	207	01	8.00	02	67	428202	715008	GW	03
2600112-46	207	01	6.00	02	66	430286	714666	GW	03
2600112-47	207	01	8.00	02	61	432853	737934	GW	03
2600112-48	207	01	9.00	02	63	433747	739220	GW	03
2600112-49	207	01	9.00	02	63	436490	739357	GW	03

	2600112-50	207	01	9.00	02	63						433958	737761	GW	03					
	2600112-51	207	01	8.00	02	44						445124	733896	GW	03					
	2600112-52	207	01	6.00	02	30						444168	730597	GW	03					
	2600112-53	207	01	8.00	02	34						445940	731651	GW	03					
	2600112-54	207	01	8.00	02	39						447753	730507	GW	03					
	2600112-55	207	01	9.00	02	61						441430	731884	GW	03					
	2600112-56	207	01	9.00	02	60						439745	729655	GW	03					
	2600112-57	207	01	8.00	02	58						438077	729009	GW	03					
	2600112-58	207	01	9.00	02	60						442056	729257	GW	03					
	2600112-59	207	01	10.00	02	79						439896	727615	GW	03					
	2600112-60	207	01	8.00	02	54						442210	727588	GW	03					
	2600112-61	207	01	8.00	02	116						438179	727299	GW	03					
	2600112-62	207	01	8.00	02	101						438223	726380	GW	03					
	2600112-63	207	01	8.00	02	74						441277	726344	GW	03					
	2600112-64	207	01	8.00	02	77						438270	725596	GW	03					
	2600112-65	207	01	6.00	02	62						435285	727403	GW	03					
	2600112-66	207	01	8.00	02	41						429910	726192	GW	03					
	2600112-67	207	01	8.00	02	41						431321	725920	GW	03					
2600114	37.72		03	.46	02	26	11/87	AG	GW	3		SCHLEY CITRUS				13	1.5	15	82	0.85
	2600114-7	153	01	4.00	02						N	335957	878121	GW	08					
	2600114-8	153	01	6.00	02	30				500	N	336025	877907	GW	01					
	2600114-9	153	01	4.00	02	180				30	N	335644	878083	GW	04					
2600115	2499.11		03			26	9/78	AG	BOTH	30	Y	EVELYN JACKMAN & SONS				20	0.8	26	10000	0.50
2600115																61	0.8	26	600	0.50
2600115																53	0.8	26	900	0.50
	2600115-18	176	01	6.00	02						N	506546	828599	GW	03					
	2600115-19	176	01	6.00	02						N	507057	831074	GW	03					
	2600115-20	176	01	6.00	02						N	506295	831070	GW	03					
	2600115-21	176	01	8.00	02						N	506780	831788	GW	03					
	2600115-22	176	01	8.00	02						N	507502	831750	GW	03					
	2600115-23	176	01	6.00	02						N	512016	829706	GW	03					
	2600115-24	176	01	6.00	02						N	511416	831715	GW	03					
	2600115-25	176	01	6.00	02						N	513753	831811	GW	03					
	2600115-26	176	01	8.00	02						N	514458	832423	GW	03					
	2600115-27	176	01	66.00	02						N	511300	832414	GW	03					
	2600115-7	157	01	6.00	02						N	497610	847250	GW	03					
	2600115-8	157	01	6.00	02						N	495061	847282	GW	03					
	2600115-9	157	01	8.00	02						N	496235	845628	GW	03					
	2600115-10	157	01	8.00	02						N	499249	843695	GW	03					
	2600115-11	157	01	8.00	02						N	498671	845126	GW	03					
	2600115-12	157	01	6.00	02						N	497743	845941	GW	03					
	2600115-13	157	01	6.00	02						N	497636	844341	GW	03					
	2600115-14	157	01	6.00	02						N	495162	843592	GW	03					
	2600115-15	157	01	6.00	02						N	498341	840067	GW	03					
	2600115-16	157	01	6.00	02						N	499788	840274	GW	03					
	2600115-17	157	01	6.00	02						N	498267	840789	GW	03					
	2600115-18	157	01	6.00	02						N	496889	840754	GW	03					
	2600115-19	157	01	6.00	02						N	496209	840762	GW	03					
	2600115-20	157	01	6.00	02						N	495522	840784	GW	03					
	2600115-21	157	01	6.00	02						N	495430	838452	GW	03					
	2600115-22	157	01	6.00	02						N	496162	838447	GW	03					
	2600115-23	157	01	6.00	02						N	496842	838442	GW	03					
	2600115-24	157	01	6.00	02						N	497771	838491	GW	03					
	2600115-25	157	01	6.00	02						N	498499	838604	GW	03					
	2600115-26	157	01	6.00	02						N	499689	838914	GW	03					
	2600115-SW													SW						

	2600115-SW											SW								
	2600115-SW											SW								
2600116	348.18		03	128.15	02	26	10/88	AG	GW	3	B-J GROVES				13	0.8	26	757	0.50
	2600116-69	192	01	8.00	02	90				400 N	442821	751200	GW	03					
	2600116-70	192	01	8.00	02	90				400 N	440426	751088	GW	03					
	2600116-71	192	01	8.00	02	90				400 N	438165	751027	GW	03					
2600118	78.19		03	28.78	02	26	10/87	AG	GW	4	MACKEY GROVES				13	0.8	15	170	0.85
	2600118-41	172	01	8.00	02	35	20		02	250 N	363540	795300	GW	01					
	2600118-42	172	01	8.00	02	160	140		02	250 N	363540	795920	GW	04					
	2600118-43	172	01	8.00	02	160	80		02	250 N	363540	795660	GW	04					
	2600118-44		01	8.00	02	160	80		02	250 N	363300	797760	GW	04					
2600121	258.03		03	94.98	02	26	10/87	AG	GW	6 N	PBJ PROPERTIES				13	0.8	15	561	0.85
	2600121-50	172	02	12.00	02	200	140		02	711 N	344600	808200	GW	04					
	2600121-51	172	02	12.00	02	200	140		02	740 N	344600	807400	GW	04					
	2600121-52	172	02	10.00	02	200	140		02	385 N	344200	806000	GW	04					
	2600121-53	172	02	10.00	02	200	140		02	385 N	347200	805400	GW	04					
	2600121-54	172	02	10.00	02	200	140		02	567 N	344200	804600	GW	04					
	2600121-55	172	02	10.00	02	200	140		02	461 N	344200	803600	GW	04					
2600123	795.99		03	292.97	02	26	12/87	AG	GW	12	JEBCO GROVES				13	0.8	15	1386	0.50
	2600123-10	155	01	8.00	02	24				600 N	415164	873511	GW	01					
	2600123-11	155	01	8.00	02	24				600 N	415123	874427	GW	01					
	2600123-12	155	01	8.00	02	24				600 N	414935	877480	GW	01					
	2600123-1	136	01	8.00	02	24				600 N	415045	878853	GW	01					
	2600123-2	136	01	8.00	02	24				600 N	415035	879888	GW	01					
	2600123-3	136	01	8.00	02	24				600 N	415010	882257	GW	01					
	2600123-1	137	01	8.00	02	24				600 N	420326	882785	GW	01					
	2600123-2	137	01	8.00	02	24				600 N	420322	880025	GW	01					
	2600123-3	137	01	8.00	02	24				600 N	420278	878903	GW	01					
	2600123-1	156	01	8.00	02	24				600 N	420230	876987	GW	01					
	2600123-2	156	01	8.00	02	24				600 N	420247	874276	GW	01					
	2600123-3	156	01	8.00	02	24				600 N	420290	873438	GW	01					
2600126	2794.62		03	290.09	02	26	8/87	AG	GW	17	HENDRY CORRECTIONAL INSTITUTION				20	0.8	26	2740	0.50
2600126															15	0.8	26	10	0.75
	2600126-45	206	01	8.00	02	60				500 N	414283	718618	GW	03					
	2600126-46	206	01	8.00	02	60				500 N	416993	718699	GW	03					
	2600126-47	206	01	6.00	02	30				405 N	414455	716196	GW	01					
	2600126-114	207	01	8.00	02	60				500 N	427255	717556	GW	03					
	2600126-115	207	01	8.00	02	60				500 N	427298	715800	GW	03					
	2600126-116	207	01	6.00	02	30				415 N	420837	717901	GW	01					
	2600126-117	207	01	6.00	02	30				415 N	422591	718795	GW	01					
	2600126-118	207	01	6.00	02	30				415 N	424526	717270	GW	01					
	2600126-119	207	01	6.00	02	30				415 N	426970	718797	GW	01					
	2600126-120	207	01	6.00	02	30				415 N	422881	715583	GW	01					
	2600126-121	207	01	6.00	02	30				415 N	423498	713584	GW	01					
	2600126-122	207	01	6.00	02	30				415 N	420955	713451	GW	01					
	2600126-123	207	01	6.00	02	30				415 N	419781	710596	GW	01					
	2600126-124	207	01	6.00	02	30				415 N	420212	712160	GW	01					
	2600126-125	207	01	6.00	02	30				415 N	421648	709268	GW	01					
	2600126-130	207	01	4.00	02	50				75 N	0	0	GW	03					
	2600126-131	207	01	4.00	02	50				75 N	0	0	GW	03					
2600127	27.60		03	.339	01	26	12/87	AG	GW	2	JAMES R. WILLIAMS				13	1.5	15	60	0.85
	2600127-10	153	01	6.00	02	120	60		02	250 N	326523	877035	GW	04					

2600128	71.90		03	50.70	02	26	10/88	AG	GW	2		BERCHTOLD GROVES				13	0.8	15	86	0.50
	2600128-4	137	01	6.00	02	70				800	N	435568	883401	GW	03					
	2600128-9	137	01	6.00	02	100	50			700	N	433021	883696	GW	03					
2600130	213.88		03	2.62	01	26	4/87	AG	GW	7		LAKE BUTLER GROVES, INC.				13	0.8	15	465	0.50
	2600130-12	135	01	10.00	02	132	113		02	900	N	341890	815150	GW	04					
	2600130-13	135	01	10.00	02	216	132		02	700	N	339820	881390	GW	04					
	2600130-14	135	01	8.00	02	200					N	340820	885150	GW	04					
	2600130-15	135	01	6.00	02	50	40				N	343030	883350	GW	01					
	2600130-16	135	01	6.00	02	50	40				N	343030	881690	GW	01					
	2600130-17	135	04											GW						
	2600130-18	135	01									342230	882520	GW						
2600134	275.97		03	101.57	02	26	10/87	AG	GW	3		PAUL & WHEELER				13	0.8	15	600	0.85
	2600134-90	172	01	8.00	02	130	60		02	100	N	359850	807700	GW	04					
	2600134-91	172	01	8.00	02	125	80		02	100	N	358500	807100	GW	04					
	2600134-92	172	01	8.00	02	145	80		02	100	N	359100	805550	GW	04					
2600135	549.69		03	6.74	01	26	12/87	AG	GW	10		BOB PAUL (KINSER GROVE)				13	1.5	15	703	0.85
	2600135-3	134	01	12.00	02	140	90		02	600	N	359045	883751	GW	04					
	2600135-4	134	02	12.00	02	140	90			600	N	361289	883596	GW	04					
	2600135-5	134	01	8.00	02	140	110		02	400	N	358795	881700	GW	04					
	2600135-6	134	02	12.00	02	140	90			600	N	361315	881440	GW	04					
	2600135-7	134	01	6.00	02	180	97		02	40	N	362278	880198	GW	04					
	2600135-8	134	01	6.00	02	150	118		02	300	N	364289	879840	GW	04					
	2600135-11	153	02	12.00	02	140	90			600	N	323409	878304	GW	04					
	2600135-12	153	01	6.00	02	140	120		02	250	N	323686	878280	GW	04					
	2600135-13	153	01	8.00	02	140	100		02	40	N	325744	878490	GW	04					
	2600135-14	153	02	12.00	02	140	90			600	N	323379	876464	GW	04					
2600136	2240.83		03	492.02	02	26	9/87	AG	GW	27		FRED BARFIELD				20	0.8	26	1731	0.50
2600136																13	0.8	26	460	0.50
2600136																61	0.8	26	260	0.50
	2600136-69	207	01	10.00	02	85						425109	708245	GW	03					
	2600136-70	207	01	10.00	02	85						424636	708243	GW	03					
	2600136-71	207	01	6.00	02	85						426318	707416	GW	03					
	2600136-72	207	01	8.00	02	85						427225	705625	GW	03					
	2600136-73	207	01	10.00	02	85						425676	704540	GW	03					
	2600136-74	207	01	10.00	02	85						423747	703350	GW	03					
	2600136-75	207	01	8.00	02	85						424647	705007	GW	03					
	2600136-76	207	01	10.00	02	85						424754	705838	GW	03					
	2600136-77	207	01	10.00	02	85						421988	707765	GW	03					
	2600136-78	207	01	8.00	02	85						420019	707644	GW	03					
	2600136-79	207	01	10.00	02	85						419375	705649	GW	03					
	2600136-80	207	01	10.00	02	85						420428	705718	GW	03					
	2600136-81	207	01	8.00	02	85						421990	705861	GW	03					
	2600136-82	207	01	8.00	02	85						421957	703819	GW	03					
	2600136-83	207	01	8.00	02	85						419966	702900	GW	03					
	2600136-84	207	01	10.00	02	85						419918	702092	GW	03					
	2600136-85	207	01	8.00	02	85						419855	700187	GW	03					
	2600136-86	207	01	10.00	02	85						422153	700111	GW	03					
	2600136-87	207	01	10.00	02	85						423690	700116	GW	03					
	2600136-88	207	01	10.00	02	85						426408	700460	GW	03					
	2600136-89	207	01	10.00	02	85						426490	701817	GW	03					
	2600136-90	207	01	10.00	02	85						424024	702906	GW	03					
	2600136-26	206	01	6.00	02	85						416930	705792	GW	03					

	2600136-27	206	01	4.00	02	85						417470	705738	GW	03					
	2600136-28	206	01	8.00	02	85						417417	704502	GW	03					
	2600136-29	206	01	8.00	02	85						417029	702807	GW	03					
	2600136-30	206	01	8.00	02	85						414733	700325	GW	03					
2600141	79.20		03			26	1/82	AG	GW	3		USSC				LIVESTOCK WATERING				
	2600141-4	158	01	6.00	02	90	70		01	175	N	508073	863040	GW	03					
	2600141-5	158	01	8.00	02	100	60		02	240	N	516618	863155	GW	03					
	2600141-6	158	01	6.00	02	84			01	140	N	515930	863568	GW	03					
2600143	3462.11		03	847.12	02	26	12/87	AG	GW	105	11	ZIPPERER FARMS				13	0.8	26	1600	0.50
2600143																20	0.8	26	100	0.50
2600143																61	0.8	26	1360	0.50
2600143																15	0.8	26	850	0.50
	2600143-11	176	01	6.00	02	130					N	505465	791367	GW	03					
	2600143-12	176	01	6.00	02	130					N	504152	791326	GW	03					
	2600143-13	176	01	6.00	02	130					N	504124	790032	GW	03					
	2600143-14	176	01	6.00	02	130					N	505547	788685	GW	03					
	2600143-15	176	01	6.00	02	130					N	504148	788703	GW	03					
	2600143-16	176	01	6.00	02	130					N	501345	789188	GW	03					
	2600143-17	176	01	6.00	02	130					N	501129	787450	GW	03					
	2600143-87	175	01	6.00	02	130					N	492436	793666	GW	03					
	2600143-88	175	01	6.00	02	130					N	491140	794278	GW	03					
	2600143-89	175	01	6.00	02	130					N	498476	792963	GW	03					
	2600143-90	175	01	6.00	02	130					N	497443	793022	GW	03					
	2600143-91	175	01	6.00	02	130					N	492318	790883	GW	03					
	2600143-92	175	01	6.00	02	130					N	491001	790571	GW	03					
	2600143-93	175	01	8.00	02	130					N	492097	789957	GW	03					
	2600143-94	175	01	6.00	02	130					N	494961	788727	GW	03					
	2600143-95	175	01	8.00	02	130					N	492042	788674	GW	03					
	2600143-96	175	02	12.00	02	120				3000	N	491681	788213	GW	03					
	2600143-65	193	01	6.00	02	130					N	495149	787229	GW	03					
	2600143-66	193	01	6.00	02	130				1200	N	499590	786532	GW	03					
	2600143-67	193	01	6.00	02	130				1200	N	497693	784489	GW	03					
	2600143-68	193	01	6.00	02	130				1200	N	499462	784606	GW	03					
	2600143-69	193	01	6.00	02	130					N	495147	784435	GW	03					
	2600143-70	193	01	6.00	02	130					N	494125	782896	GW	03					
	2600143-71	193	01	6.00	02	130					N	499467	781933	GW	03					
	2600143-72	193	01	6.00	02	130					N	497859	781875	GW	03					
	2600143-73	193	01	6.00	02	130					N	492451	781845	GW	03					
	2600143-74	193	01	6.00	02	130					N	491795	781855	GW	03					
	2600143-75	193	01	6.00	02	130					N	491157	781832	GW	03					
	2600143-76	193	01	6.00	02	130					N	492574	780249	GW	03					
	2600143-77	193	01	6.00	02	130					N	491644	780843	GW	03					
	2600143-78	193	01	6.00	02	130					N	491385	780250	GW	03					
	2600143-79	193	01	6.00	02	135					N	491630	777885	GW	03					
	2600143-80	193	01	6.00	02	135					N	491113	778199	GW	03					
	2600143-81	193	01	6.00	02	135					N	491099	777571	GW	03					
	2600143-82	193	01	6.00	02	135					N	491243	776503	GW	03					
	2600143-83	193	01	6.00	02	135					N	491255	775386	GW	03					
	2600143-84	193	01	6.00	02	135					N	491206	774799	GW	03					
	2600143-85	193	01	6.00	02	135					N	493191	774186	GW	03					
	2600143-86	193	01	6.00	02	135					N	493112	773229	GW	03					
	2600143-87	193	01	6.00	02	135					N	491887	773204	GW	03					
	2600143-88	193	01	6.00	02	130					N	495360	768410	GW	03					
	2600143-89	193	01	6.00	02	130					N	493136	768224	GW	03					
	2600143-90	193	01	6.00	02	130					N	495550	766965	GW	03					
	2600143-91	193	01	6.00	02	130					N	494144	766746	GW	03					

2600143-92	193	01	6.00	02	130				N	492975	766649	GW	03
2600143-93	193	01	6.00	02	130				N	492228	766996	GW	03
2600143-94	193	01	6.00	02	130				N	491386	767042	GW	03
2600143-95	193	01	6.00	02	130				N	491582	766086	GW	03
2600143-96	193	01	2.00	02	90				N	496636	764472	GW	03
2600143-97	193	01	6.00	02	130			800	N	495742	764892	GW	03
2600143-98	193	01	2.00	02	80				N	495712	764348	GW	03
2600143-99	193	01	6.00	02	130			800	N	495120	764882	GW	03
2600143-100	193	01	2.00	02	80				N	495136	764315	GW	03
2600143-101	193	01	6.00	02	130			800	N	494451	764817	GW	03
2600143-102	193	01	6.00	02	130			800	N	493875	764798	GW	03
2600143-103	193	01	2.00	02	130				N	493861	764303	GW	03
2600143-104	193	01	6.00	02	130			800	N	493426	764686	GW	03
2600143-105	193	01	2.00	02	110				N	492132	764559	GW	03
2600143-106	193	01	2.00	02	80				N	491614	763731	GW	03
2600143-107	193	01	2.00	02	80				N	491975	764844	GW	03
2600143-108	193	01	6.00	02	120			800	N	491172	764108	GW	03
2600143-109	193	01	2.00	02	120			800	N	491181	762922	GW	03
2600143-211	193	02	12.00	02	120	80	02	2500	N	493432	764618	GW	03
2600143-212	193	02	12.00	02	120	80	02	3000	N	493604	766586	GW	03
2600143-213	193	02	12.00	02	120	80	02	2500	N	493657	768270	GW	03
2600143-62	194	01	6.00	02	130				N	503979	787342	GW	03
2600143-63	194	01	6.00	02	130			1200	N	504024	786471	GW	03
2600143-64	194	01	6.00	02	130			1200	N	501405	786124	GW	03
2600143-65	194	01	6.00	02	130			1200	N	500186	786144	GW	03
2600143-66	194	01	6.00	02	130			1200	N	500235	784662	GW	03
2600143-67	194	01	6.00	02	130			1200	N	504536	783527	GW	03
2600143-68	194	01	6.00	02	130			1200	N	500766	783069	GW	03
2600143-69	194	01	6.00	02	130			1200	N	500708	781760	GW	03
2600143-70	194	01	6.00	02	130			1200	N	504378	778124	GW	03
2600143-71	194	01	6.00	02	135			1200	N	504794	777045	GW	03
2600143-72	194	01	6.00	02	135			1200	N	504117	777036	GW	03
2600143-73	194	01	6.00	02	135			1200	N	504557	775563	GW	03
2600143-74	194	01	6.00	02	135			1200	N	505495	774228	GW	03
2600143-75	194	01	6.00	02	135			1200	N	504563	774603	GW	03
2600143-76	194	01	6.00	02	130				N	503259	772844	GW	03
2600143-77	194	01	6.00	02	130				N	502840	772198	GW	03
2600143-78	194	01	6.00	02	130			800	N	503271	771658	GW	03
2600143-79	194	01	6.00	02	130				N	504620	770105	GW	03
2600143-80	194	01	6.00	02	130				N	503232	770188	GW	03
2600143-81	194	01	6.00	02	160				N	500500	769027	GW	03
2600143-82	194	01	6.00	02	130				N	505760	767721	GW	03
2600143-83	194	01	6.00	02	130				N	502097	767530	GW	03
2600143-84	194	01	6.00	02	130				N	505948	766642	GW	03
2600143-85	194	01	6.00	02	130				N	503270	766583	GW	03
2600143-86	194	01	6.00	02	130				N	502353	766610	GW	03
2600143-87	194	01	6.00	02	130				N	500756	766546	GW	03
2600143-88	194	01	6.00	02	130				N	505526	764779	GW	03
2600143-89	194	01	2.00	02	130				N	501557	764641	GW	03
2600143-90	194	01	6.00	02	130				N	502135	765480	GW	03
2600143-91	194	01	6.00	02	130				N	502303	764421	GW	03
2600143-141	194	02	12.00	02	120	110		2400	N	500057	769469	GW	03
2600143-142	194	02	12.00	02	120	110		2400	N	500005	771834	GW	03
2600143-143	194	02	12.00	02	120	110		2400	N	503745	763519	GW	03
2600143-144	194	02	12.00	02	120	110		2400	N	506303	764928	GW	03
2600143-145	194	02	12.00	02	120	110		2400	N	506322	766173	GW	03
2600143-146	194	02	12.00	02	120	110		2400	N	502336	765446	GW	03
2600143-147	194	02	12.00	02	120	110		2400	N	502956	766970	GW	03

	2600143-148	194	02	12.00	02	120	110			2400	N	503280	768279	GW	03					
	2600143-149	194	02	12.00	02	120	110			2400	N	503256	769843	GW	03					
	2600143-150	194	02	12.00	02	120	110			2400	N	504983	774432	GW	03					
	2600143-SW1		03							20000	N	493540	790120							
	2600143-SW12		03							15000	N	493540	782860							
	2600143-SW13		03							15000	N	492000	784840							
	2600143-SW11		03							15000	N	492000	779560							
	2600143-SW25		03							15000	N	506740	774610							
	2600143-SW7		03							15000	N	492200	774280							
	2600143-SW32		03							8000	N	490900	762500							
	2600143-SW14		03							10000	N	490900	494200							
	2600143-SW24		03							20000	N	506740	775600							
	2600143-SW22		03							20000	N	506740	786160							
	2600143-SW19		03							15000	N	506740	790120							
2600144	15.41		03	5.67	02	26	7/87	AG	GW	3		MILBRODT GROVES				13	0.8	15	34	0.85
	2600144-4	156	01	8.00	02	140	80		02	180	N	424897	870274	GW	03					
	2600144-5	156	03	8.00	02	16	5					424692	870187	GW	01					
	2600144-6	156	03	8.00	02	16	5					424488	870070	GW	01					
2600146	19.71		03	1.62	02	26	8/87	AG	GW	3		USSC - SOUTHERN DIVISION RANCH				LIVESTOCK WATERING				
	2600146-60	194	01	6.00	02	60	40			192	N	530494	757717	GW	01					
	2600146-61	194	01	6.00	02	50	30			192	N	530808	747293	GW	01					
	2600146-12	209	01	6.00	02	50	30			101	N	530801	736637	GW	01					
2600148	46.13		03	10.90	02	26	4/87	AG	BOTH	3	1	K-BOB, INC.				13	0.8	15	59	0.50
	2600148-49	154	01	2.00	02	22						361264	847023	GW	01					
	2600148-50	154	01	6.00	02	16						362080	847223	GW	01					
	2600148-51	154	01	6.00	02	18						362070	846819	GW	01					
	2600148-SW	154	01							2000		360400	847000	SW						
2600150	650.00		03	94.90	02	26	5/82	AG	GW	2		FRED BARFIELD				20	0.8	26	400	0.50
	2600150-31	208	01	8.00	02							462282	702515	GW	03					
	2600150-91	207	01	8.00	02							456925	702241	GW	03					
2600151	4455.00		03	667.00	02	26	8/88	AG	GW	9		JAMES F. BARFIELD - SEARS PROPERTY				20	0.8	15	1990	0.50
2600151					02											61	0.8	15	300	0.50
	2600151-52	154	01	6.00	02	150				1000	N	359736	845115	GW	04					
	2600151-53	154	01	8.00	02	150				1250	N	368581	845890	GW	04					
	2600151-54	154	01	8.00	02	150				1250	N	368711	841175	GW	04					
	2600151-55	154	01	6.00	02	150				1000	N	375861	845112	GW	04					
	2600151-56	154	01	9.00	02	150				1450	N	374387	841167	GW	04					
	2600151-123	154	02	12.00	02	200				150	N	360761	844975	GW	04					
	2600151-124	154	02	12.00	02	200				150	N	362055	845227	GW	04					
	2600151-125	154	02	12.00	02	200				150	N	366797	845271	GW	04					
2600152	32.66		03	.401	01	26	4/87	AG	BOTH	2	1	GEORGE F. BURCHARD				13	0.8	15	71	0.85
	2600152-64	154	01	10.00	02	40				100	N	365087	843357	GW	01					
	2600152-65	154	01	6.00	02	140				250	N	347080	875852	GW	04					
	2600152-SW	154	01							800	N	349550	874900	SW						
2600157	31.28		03	11.51	02	26	9/87	AG	BOTH	1	1	PAUL MIDILI & K. T. JOHN				13	0.8	15	40	0.50
	2600157-13	172	01	3.00	02	60	40		01	200	N	352329	807318	GW	03					
	2600157-SW	172	01							6000	N	353356	809253	SW						
2600158	144.53		03	1.80	01	26	8/87	AG	BOTH	4	3	L. J. NOBLES				13	0.8	15	314	0.85
	2600158-95	154	01	6.00	02	40	20		.01	600	N	351417	876074	GW	01					
	2600158-96	154	01	6.00	02	40	20		01	600	N	353072	874900	GW	01					

	2600158-97	154	01	6.00	02	40	20		01	600	N	353091	873671	GW	01						
	2600158-98	154	01	6.00	02	40	20		01	600	N	351716	872090	GW	01						
	2600158-SW	154	01							2800	N	352000	875250	SW							
	2600158-SW	154	01							2800	N	352000	873750	SW							
	2600158-SW	154	01							2800	N	353000	873000	SW							
2600159	1656.75		03	609.78	02	26	7/87	AG	GW	62		CPI					13	0.8	15	3602	0.85
	2600159-10	171	01	12.00	02	256	165	-91	02	540	Y	322137	823141	GW	04						
	2600159-11	171	01	12.00	02	256	165	-91	02	414	Y	323063	822127	GW	04						
	2600159-12	171	01	12.00	02	240	170	-91	02	437	Y	325459	822376	GW	04						
	2600159-13	171	01	12.00	02	275	195	-92	02	463	Y	321873	819489	GW	04						
	2600159-14	171	01	12.00	02	256	165	-92	02	624	Y	319877	823467	GW	04						
	2600159-15	171	03	12.00	02	275	170				N	318828	822294	GW	04	MONITOR WELL					
	2600159-16	171	01	12.00	02	260	172	-92	02	464	Y	318664	819655	GW	04						
	2600159-17	171	01	12.00	02	280	208	-90	02	653	Y	321023	817226	GW	04						
	2600159-18	171	01	12.00	02	256	175	-88	02	675	Y	326040	809745	GW	04						
	2600159-19	171	01	12.00	02	258	170	-90	02	750	Y	316704	812823	GW	04						
	2600159-20	171	01	12.00	02	265	175	-90	02	500	Y	316782	811624	GW	04						
	2600159-21	171	01	12.00	02	260	165	-90	02	284	Y	319761	811683	GW	04						
	2600159-22	171	01	12.00	02	286	210	-90	02	360	Y	322311	816104	GW	04						
	2600159-23	171	03	12.00	02	256	215					326027	814953	GW	04	MONITOR WELL					
	2600159-24	171	01	12.00	02	278	187	-88	02	602	Y	322610	811641	GW	04						
	2600159-25	171	01	12.00	02	265	185	-88	02	549	Y	322686	810071	GW	04						
	2600159-26	171	01	12.00	02	256	170	-90	02	647	Y	316970	809988	GW	04						
	2600159-27	171	01	12.00	02	250	155	-90	02	669	Y	319681	809585	GW	04						
	2600159-28	171	01	12.00	02	260	170	-90	02	617	Y	316988	809041	GW	04						
	2600159-29	171	01	12.00	02	226	180	-90	02	363	Y	316679	804144	GW	04						
	2600159-30	171	01	12.00	02	245	180	-90	02	220	Y	319878	805272	GW	04						
	2600159-31	171	03	12.00	02	235	175					319433	803754	GW	04	MONITOR WELL					
	2600159-32	171	01	12.00	02	250	170	-88	02	454	Y	322200	807729	GW	04						
	2600159-33	171	01	12.00	02	268	180	-88	02	422	Y	323691	807936	GW	04						
	2600159-34	171	03	12.00	02	265	172					326113	807729	GW	04	MONITOR WELL					
	2600159-35	171	01	12.00	02	255	175	-88	02	520	Y	321977	806185	GW	04						
	2600159-36	171	01	12.00	02	285	180	-89	02	533	Y	325445	806125	GW	04						
	2600159-37	171	01	12.00	02	230	160	-88	02	367	Y	321931	804877	GW	04						
	2600159-38	171	01	12.00	02	265	162	-89	02	296	Y	323727	804990	GW	04						
	2600159-39	171	01	12.00	02	215	160	-88	02	745	Y	322052	803573	GW	04						
	2600159-40	171	01	12.00	02	241	193	-89	02	468	Y	0	0	GW	04						
	2600159-41	171	01	12.00	02	241	193	-89	02	448	Y	315632	801693	GW	04						
	2600159-42	171	03	12.00	02	250	163					316679	823236	GW	04	MONITOR WELL					
	2600159-43	171	01	12.00	02	300	206	-90	02	415	Y	322165	818192	GW	04						
	2600159-44	171	01	12.00	02	280	195	-90	02	505	Y	324626	818260	GW	04						
	2600159-45	171	01	12.00	02	285	187	-90	02	753	Y	324661	817352	GW	04						
	2600159-46	171	01	12.00	02	230	167	-90	02	530	Y	320390	802235	GW	04						
	2600159-47	171	01	12.00	02	215	165	-90	02	610	Y	320682	799695	GW	04						
	2600159-48	171	03	12.00	02	226	190					315630	798523	GW	04	MONITOR WELL					
	2600159-49	171	03	12.00	02	225	175					319958	797891	GW	04	MONITOR WELL					
	2600159-50	171	01	12.00	02	256	210	-90	02	603	Y	321715	814448	GW	04						
	2600159-51	171	01	12.00	02	280	165	-90	02	611	Y	319722	812899	GW	04						
	2600159-52	171	01	12.00	02	250	180	-89	02	457	Y	324622	803733	GW	04						
	2600159-53	171	01	12.00	02	250	167	-90	02	470	Y	324395	823193	GW	04						
	2600159-54	171	01	12.00	02	255	210	-90	02	613	Y	324786	815681	GW	04						
	2600159-55	171	01	12.00	02	285	187	-88	02	736	Y	324900	811905	GW	04						
	2600159-56	171	03	12.00	02	285	202					316916	806209	GW	04	MONITOR WELL					
	2600159-57	171	01	12.00	02	215	165	-90	02	559	Y	319534	801181	GW	04						
	2600159-58	171	01	10.00	02	250	162	-92	02	388	Y	316833	820323	GW	04						
	2600159-59	171	01	8.00	02	90	68	-22	02	224	Y	316180	822065	GW	04						
	2600159-60	171	01	8.00	02	84	69	-22	02	236	Y	317222	822090	GW	04						

	2600159-61	171	01	8.00	02	125	65	-52	02	297	Y	316716	822663	GW	04						
	2600159-62	171	01	8.00	02	125	85	-32	02	446	Y	318835	821930	GW	04						
	2600159-63	171	01	8.00	02	110	80	-35	02	467	Y	315542	820169	GW	04						
	2600159-64	171	01	8.00	02	240	155	-90	02	606	Y	316320	800544	GW	04						
	2600159-65	171	01	12.00	02	230	158	-90	02	234	Y	320283	804663	GW	04						
	2600159-66	171	01	12.00	02	230	159	-90	02	748	Y	317685	798807	GW	04						
	2600159-67	171			02							0	0								
	2600159-68	171	01	8.00	02	106	56	-90		236	Y	317496	806601	GW	04						
	2600159-69	171	01		02							324969	809227	GW	04						
	2600159-70	171	01	12.00	02	105	60	-38		310	Y	326135	808257	GW	04						
	2600159-71	171	01	8.00	02	140	85	-90	02	280	Y	326107	807677	GW	04						
2600161	229.98		03	84.64	02	26	7/87	AG	GW	2		R. B. GROVES					13	0.8	15	500	0.85
	2600161-1	171	01	10.00	02	220	160		02	1000	N	316750	816750	GW	04						
	2600161-2	171	02	10.00	02	220	160		02	1000	N	318250	816750	GW	04						
2600162	94.74		03	35.97	02	26	7/87	AG	GW	2		A. B. CURRY					13	0.8	26	125	0.50
	2600162-95	207	01	8.00	02	55	42			800	N	431141	707413	GW	03						
	2600162-96	207	01	8.00	02	55	42			800	N	431095	705351	GW	03						
2600170	379.00		03	139.58	02	26	5/87	AG	BOTH	4	?	BAYROCK INVESTMENT CO.(THIS PERMIT OVER					13	3.6	26	485	0.50
	2600170-92	194	01	8.00	02	105	85	-70		300	N	531200	781600	GW	03						
	2600170-93	194	01	8.00	02	95	85	-70		300	N	535180	781600	GW	03						
	2600170-94	194	01	8.00	02	85	85	-70		300	N	537160	781600	GW	03						
	2600170-95	194	01	8.00	02	95	85	-70		300	N	538140	781600	GW	03						
2600171	34.50		03	.423	01	26	2/88	AG	GW	3		BOWMAN BROTHERS					13	1.5	15	75	0.85
	2600171-15	153	01	10.00	02	130	100		02	225	Y	335800	872500	GW	04						
	2600171-16	153	0	6.00	02	20			01			336500	871850	GW	01						
	2600171-17	153	01	6.00	02	20			01	225	Y	336400	872700	GW	01						
2600174	3528.2		03	518.26	02	26		AG	BOTH	38	2	ALICO					CANE	0.8	15	2663	0.50
2600174																	13	0.8	15	2663	0.85
	2600174-	156	02	12.00	02	250				1000				GW	04	NO WELL LOCATIONS IN PERMIT FILE					
	2600174-	156	02	12.00	02	250				1000				GW	04						
	2600174-	156	02	12.00	02	250				1000				GW	04						
	2600174-	156	02	12.00	02	250				1000				GW	04						
	2600174-	156	02	12.00	02	250				1000				GW	04						
	2600174-	156	02	12.00	02	250				1000				GW	04						
	2600174-	156	02	12.00	02	250				1000				GW	04						
	2600174-	156	02	12.00	02	250				1000				GW	04						
	2600174-	156	02	12.00	02	250				1000				GW	04						
	2600174-	156	02	12.00	02	250				1000				GW	04						
	2600174-	156	02	12.00	02	250				1000				GW	04						
	2600174-	156	02	12.00	02	250				1000				GW	04						
	2600174-	156	02	12.00	02	250				1000				GW	04						
	2600174-	156	02	12.00	02	250				1000				GW	04						
	2600174-	156	02	12.00	02	250				1000				GW	04						
	2600174-	156	02	12.00	02	250				1000				GW	04						
	2600174-	156	02	12.00	02	250				1000				GW	04						
	2600174-	156	02	12.00	02	250				1000				GW	04						
	2600174-	156	02	12.00	02	250				1000				GW	04						
	2600174-	156	02	12.00	02	250				1000				GW	04						
	2600174-	156	02	12.00	02	250				1000				GW	04						
	2600174-	156	02	12.00	02	250				1000				GW	04						
	2600174-	156	02	12.00	02	250				1000				GW	04						
	2600174-	156	02	12.00	02	250				1000				GW	04						
	2600174-	156	02	12.00	02	250				1000				GW	04						

	2600174-	156	02	12.00	02	250				1000				GW	04						
	2600174-	156	02	12.00	02	250				1000				GW	04						
	2600174-	156	02	12.00	02	250				1000				GW	04						
	2600174-	156	02	10.00	02	250				800				GW	04						
	2600174-	156	02	10.00	02	250				800				GW	04						
	2600174-	156	02	10.00	02	250				800				GW	04						
	2600174-	156	02	10.00	02	250				800				GW	04						
	2600174-	156	02	10.00	02	250				800				GW	04						
	2600174-	156	02	10.00	02	250				800				GW	04						
	2600174-	156	02	10.00	02	250				800				GW	04						
	2600174-	156	02	10.00	02	250				800				GW	04						
	2600174-	156	02	10.00	02	250				800				GW	04						
	2600174-	156	02	10.00	02	250				800				GW	04						
	2600174-SW	156	02							8750		414000	839650	SW							
	2600174-SW	156	02							8750		414000	839650	SW							
2600177	1214.28		03	446.92	02	26	7/87	AG	GW	4		BADCOCK CITRUS GROVE					13	0.8	15	2640	0.85
	2600177-17	155	02	12.00	02	290	260		02	1000	N	414552	841678	GW	04	THIS WELL IS EXISTING BUT NOT USED					
	2600177-18	155	02	12.00	02	290	260		02	1000	N	413349	841621	GW	04						
	2600177-19	155	02	12.00	02	290	260		02	1000	N	411881	841625	GW	04						
	2600177-20	155	02	12.00	02	290	260		02	1000	N	410586	841565	GW	04						
2600211	144.09		03	1.37	02	26	8/87	AG	GW	7		FLORILAND DAIRY					61	0.8	15	215	0.50
	2600211-88	154	01	8.00	02	60	35		01	400	N	369889	867503	GW	01						
	2600211-89	154	01	8.00	02	40	9		01	400	N	369956	869992	GW	01						
	2600211-90	154	01	8.00	02	40	20		01	400	N	368265	868908	GW	01						
	2600211-91	154	01	8.00	02	60	35		01	400	N	368185	869440	GW	01						
	2600211-92	154	01	8.00	02	60	35		01	400	N	368871	870063	GW	01						
	2600211-93	154	01	8.00	02	60	35		01	400	N	369997	868418	GW	01						
	2600211-94	154	01	8.00	02	60	35		01	400	N	369337	867473	GW	01						
2600212	275.97		03	101.57	02	26	5/87	AG	GW	4		E. L., I. L., J. W., & A. B. JOHNSON					13	0.8	15	600	0.85
	2600212-13	155	01	12.00	02	250	200		02	1200	Y	378311	849234	GW	04						
	2600212-14	155	01	12.00	02	250	200		02	1200	Y	378325	850486	GW	04						
	2600212-67	154	01	12.00	02	250	200		02	1200	Y	375521	847463	GW	04						
	2600212-68	154	01	12.00	02	250	200		02	1200	Y	375466	849596	GW	04						

HENDRY COUNTY MODEL AREA WATER USE

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. / FACILITY NUMBER	ALL. UNT. / QUAD NO.	STS	MAX MO. / WELL DIA.	MO. UTS. / DPTH CODE	CO / TD	DATE ISS. / CD	USE TYPE / PMP INT	SRC. TYPE / PUMP TYPE	NO. WLS. / PUMP CAP.	SW PMPS / MTR?	OWNER / XPLNR	YPLNR	SRC	AQ.	COMMENTS	CROP TYPE	SOIL TYPE	RAIN ST	IRR ACRES	IRR EFF
2600215	91.30	03		1.22	01	26	4/87	AG	GW	4		RIVER ROAD GROVES					13	0.8	15	199	0.85
	2600215-19	135	01	6.00	02	120	80		02	350	N	338642	883188	GW	04						
	2600215-20	135	02	6.00	02	105	60			250	N	338423	885174	GW	04						
	2600215-21	135	01	6.00	02	120	80		02	350	N	336951	885128	GW	04						
	2600215-9	154	01	10.00	02	120	80		02	375	N	370861	847445	GW	04						
2600217	32.10	03		5.37	02	26	5/85	AG	GW	1		JULIAN HOWARD					13	0.8	15	32	0.85
	2600217-66	154	02	12.00	02	30	20		01		N	362838	853273	GW	01						
2600220	3.29	03		.274	02	26	6/85	AG	GW	21		RICHARD ROBERTS									
	2600220-25	172	01	10.00	02	190	80		02	400		368800	831996	GW	04						
	2600220-26	172	01	10.00	02	190	80		02	500		366913	831916	GW	04						
	2600220-27	172	01	10.00	02	190	80		02	500		363061	829528	GW	04						
	2600220-28	172	01	10.00	02	190	80		02	500		366580	826409	GW	04						
	2600220-29	172	01	8.00	02	190	80		02	400		372817	823731	GW	04						
	2600220-30	172	01	8.00	02	190	80		02	400		372788	822921	GW	04						
	2600220-31	172	01	8.00	02	190	80		02	400		368803	823287	GW	04						
	2600220-32	172	01	8.00	02	190	80		02	400		367004	824026	GW	04						
	2600220-33	172	01	8.00	02	190	80		02	400		367118	823409	GW	04						
	2600220-34	172	01	8.00	02	190	80		02	400		363683	824000	GW	04						
	2600220-35	172	01	8.00	02	190	80		02	400		361399	824333	GW	04						
	2600220-36	172	01	8.00	02	190	80		02	400		361575	823393	GW	04						
	2600220-37	172	01	8.00	02	190	80		02	400		361470	821724	GW	04						
	2600220-38	172	01	8.00	02	190	80		02	400		361677	820521	GW	04						
	2600220-39	172	01	6.00	02	160	80		02	250		369266	800074	GW	04						
	2600220-40	172	01	6.00	02	160	80		02	250		369282	798781	GW	04						
	2600220-83	154	01	8.00	02	190	80		02	250		361589	838937	GW	04						
	2600220-84	154	01	8.00	02	190	80		02	250		363360	838986	GW	04						
	2600220-85	154	01	8.00	02	190	80		02	250		371659	839445	GW	04						
	2600220-86	154	01	8.00	02	190	80		02	250		372151	839103	GW	04						
	2600220-87	154	01	8.00	02	190	80		02	250		376322	835107	GW	04						
2600222	270.90	03		99.71	02	26	5/87	AG	GW	5		NEIL JOLLY					13	1.5	15		0.85
	2600222-20	172	02	12.00	02	200	140	105	02	546		344508	809208	GW	04						
	2600222-21	172	02	12.00	02	200	140	105	02	546		344624	810178	GW	04						
	2600222-22	172	02	12.00	02	200	140	105	02	546		344715	811329	GW	04						
	2600222-23	172	02	12.00	02	200	140	105	02	546		344721	812160	GW	04						
	2600222-24	172	02	12.00	02	200	140	105	02	546		344682	812984	GW	04						
2600227	635.30	03		233.79	02	26	6/87	AG	GW	39		JO MAR EL CITRUS					13	0.8	15	1381	0.85
	2600227-56	172	02	10.00	02	90			01		N	338222	805258	GW	03						

	2600227-57	172	02	10.00	02	240	150		01	429	N	340808	805221	GW	04						
	2600227-58	172	02	10.00	02	90			01		N	338244	804768	GW	03						
	2600227-59	172	02	10.00	02	90			01		N	338309	803803	GW	03						
	2600227-60	172	02	10.00	02	90			01		N	341216	803738	GW	03						
	2600227-61	172	02	10.00	02	90			01		N	343759	802103	GW	03						
	2600227-62	172	02	10.00	02	90			01		N	344357	802144	GW	03						
	2600227-63	172	02	10.00	02	90			01		N	343523	800927	GW	03						
	2600227-64	172	02	10.00	02	240	150		01	455	N	344823	800890	GW	04						
	2600227-65	172	02	10.00	02	90			01		N	343426	800173	GW	03						
	2600227-66	172	02	10.00	02	90			01		N	343503	799119	GW	03						
	2600227-67	172	02	10.00	02	240	150		01		N	345020	798821	GW	04						
	2600227-68	172	02	10.00	02	240	150		01	385	N	347082	801932	GW	04						
	2600227-69	172	02	10.00	02	240	150		01	555	N	348575	802344	GW	04						
	2600227-70	172	02	10.00	02	240	150		01	585	N	348413	799726	GW	04						
	2600227-71	172	02	10.00	02	90			01		N	350865	802700	GW	03						
	2600227-72	172	02	10.00	02	90			01	360	N	349952	801726	GW	03						
	2600227-73A	172	02	10.00	02	240	150		01	590	N	353406	799894	GW	04						
	2600227-73B	172	02	10.00	02	90			01		N	353406	799894	GW	03						
	2600227-73C	172	02	10.00	02	90			01		N	353406	799894	GW	03						
	2600227-73D	172	01	8.00	02	160	80		01	520	N	353406	799894	GW	04						
	2600227-73E	172	02	10.00	02	240	150		01		N	353406	799894	GW	04						
	2600227-73F	172	02	10.00	02	90			01		N	353406	799894	GW	03						
	2600227-74	172	04	8.00	02	60					N	355393	798510	GW	03						
	2600227-75	172	04	6.00	02	18					N	354247	803011	GW	01						
	2600227-76	172	04	8.00	02	132				550	N	351555	799882	GW	03						
	2600227-77	172	04	8.00	02	100					N	350382	802202	GW	03						
	2600227-78	172	04	8.00	02	100					N	350359	802582	GW	03						
	2600227-79	172	04	8.00	02						N	356281	799530	GW							
	2600227-80	172	04	8.00	02	132				550	N	348585	799876	GW	03						
	2600227-81	172	04	8.00	02	132				550	N	348631	799498	GW	03						
	2600227-82	172	04	8.00	02	78					N	343911	798942	GW	03						
	2600227-83	172	04	8.00	02	40					N	342655	799001	GW	01						
	2600227-84	172	04	8.00	02	30					N	343629	799715	GW	01						
	2600227-85	172	04	6.00	02						N	346779	802240	GW							
	2600227-86	172	04	8.00	02	47					N	346863	801688	GW	01						
	2600227-87	172	04	8.00	02	47					N	346539	801333	GW	01						
	2600227-88	172	04	6.00	02	47					N	337821	804345	GW	01						
	2600227-89	172	04	4.00	02	38					N	341516	803161	GW	01						
2600228	29.70		03	10.94	02	26	9/85	AG	GW	3		A. L. MOMS					13	0.8	15	38	0.50
	2600228-17	172	03	8.00	02	80	70				N	354087	803931	GW	03						
	2600228-18	172	01	8.00	02	90	70		02	750	N	354485	803583	GW	03						
	2600228-19	172	03	8.00	02	75	70				N	354813	803998	GW	03						
2600229	144.00		03	12.00	02	26	9/85	AG	GW	2		GALLAGHER GROVES					13	0.8	15	324	0.85
	2600229-8	171	02	12.00	02	200	140		02	600	N	329822	812399	GW	04	**NOTE: ALLOCATIONS ARE BASED** ON POTENTIAL					
	2600229-9	171	02	12.00	02	200	141		02	600	N	330393	811073	GW	04	**ADVERSE IMPACTS,** NOT ON CROP NEED.					
2600230	360.00		03	30.00	02	26	4/87	AG	GW	5		GALLGHER GROVES					13	0.8	15	952	0.85
	2600230-3	171	02	12.00	02	200	140		02	600	N	328965	822856	GW	04	**NOTE: ALLOCATIONS ARE BASED** ON POTENTIAL					
	2600230-4	171	02	12.00	02	200	140		02	600	N	329030	821663	GW	04	**ADVERSE IMPACTS,** NOT ON CROP NEED.					
	2600230-5	171	02	12.00	02	200	140		02	600	N	329965	818493	GW	04						
	2600230-6	171	02	12.00	02	200	140		02	600	N	330124	816280	GW	04						
	2600230-7	171	02	12.00	02	200	140		02	600	N	330228	814055	GW	04						
2600235	742.36		03	273.23	02	26	8/87	AG	BOTH	2		3 WITT GROVE					13	0.8	15	1521	0.85
	2600235-7	156	02	10.00	02	30			02	1200	N	434400	871700	GW	01						
	2600235-8	156	02	6.00	02	110			02	400	N	436900	873100	GW	03						

	2600235-SW	156	01							15000	N		434550	873200	SW						
	2600235-SW	156	02							15000	N		439100	862000	SW						
	2600235-SW	156	02							15000	N		441000	863400	SW						
2600236	13.80		03	.169	02	26	4/87	AG	BOTH	2		1	HERBERT H. HIERS				13	0.8	15	30	0.85
	2600235-81	154	01	6.00	02	95	85			360	N		338000	877438	GW	04					
	2600235-82	154	01	6.00	02	95	85			360	N		337062	877427	GW	04					
	2600235-SW	154	01							446	N		337375	876750	SW						
2600240	97.50		03	35.89	02	26	10/87	AG	GW	3			CHARLES F. KEENE				13	1.5	15	212	0.85
	2600240-14	172	01	6.00	02	200	150	-15	02	400	N		357584	810785	GW	04					
	2600240-15	172	02	8.00	02	200	150	-15	02	400	N		358993	810508	GW	04					
	2600240-16	172	02	6.00	02	200	150	-15	02	400	N		361673	810388	GW	04					
2600242	404.80		03	148.97	02	26	3/86	AG	GW	12			CITRUS PARTNERS LTD.				13	0.8	26	880	0.85
	2600242-102	207	02	12.00	02	70	40		02	1000			434370	707526	GW	03					
	2600242-103	207	02	12.00	02	70	40		02	1000			435955	707535	GW	03					
	2600242-104	207	02	12.00	02	70	40		02	1000			437294	707577	GW	03					
	2600242-105	207	02	12.00	02	70	40		02	1000			434432	704792	GW	03					
	2600242-106	207	02	12.00	02	70	40		02	1000			435995	704777	GW	03					
	2600242-107	207	02	12.00	02	70	40		02	1000			437308	704754	GW	03					
	2600242-108	207	02	12.00	02	70	40		02	1000			434403	703439	GW	03					
	2600242-109	207	02	12.00	02	70	40		02	1000			435926	703441	GW	03					
	2600242-110	207	02	12.00	02	70	40		02	1000			437331	703474	GW	03					
	2600242-111	207	02	12.00	02	70	40		02	1000			434595	700802	GW	03					
	2600242-112	207	02	12.00	02	70	40		02	1000			435803	700898	GW	03					
	2600242-113	207	02	12.00	02	70	40		02	1000			437238	700807	GW	03					
2600245	96.64		03	30.5	02	26	5/87	AG	GW	5			BLOCKER & LEWIS				61	0.8	26	175	0.50
	2600245-97	207	01	8.00	02	50	30		01	800	N		433166	711572	GW	01					
	2600245-98	207	01	8.00	02	50	30		01	800	N		433200	709330	GW	01					
	2600245-99	207	01	8.00	02	50	30		01	800	N		435545	710581	GW	01					
	2600245-100	207	01	8.00	02	50	30		01	800	N		436456	711174	GW	01					
	2600245-101	207	01	8.00	02	50	30		01	800	N		437879	712297	GW	01					
2600246	24.15		03	.296	02	26	12/87	AG	BOTH	1		1	M. R. HARRELL				13	1.5	15	52	0.85
	2600246-	135	01	6.00	02	150				50	N		348980	883000	GW	04					
	2600246-SW	135	01							950	N		349700	883040	SW						
2600256				3.44	02	26	2/87	AG	GW	2			USSC CITRUS NURSERY				13	0.8	26	9	0.85
	2600256-22	158	01	6.00	02	145	112			300	N		519351	866761	GW	03					
	2600256-23	158	02	10.00	02	145	112			200	N		519377	867758	GW	03					
2600265	115.20		03			26	7/87	AG	BOTH	10	Y		BOB PAUL (MAIN GROVE)				13	0.8	15	4025	0.85
	2600265-105	154	02	12.00	02	200	150			800	N				GW	04	NOTE: WELLS ARE FOR FREEZE PROTECTION ONLY,				
	2600265-106	154	02	12.00	02	200	150			800	N				GW	04	IRRIGATION WATER IS OBTAINED FROM THE LABELLE				
	2600265-107	154	02	12.00	02	200	150			800	N				GW	04	PRIVATE DRAINAGE DISTRICT				
	2600265-108	154	02	12.00	02	200	150			800	N				GW	04	WELL LOCATIONS NOT FOUND IN PERMIT FILE				
	2600265-109	154	02	12.00	02	200	150			800	N				GW	04					
	2600265-110	154	02	12.00	02	200	150			800	N				GW	04					
	2600265-111	154	02	12.00	02	200	150			800	N				GW	04					
	2600265-112	154	02	12.00	02	200	150			800	N				GW	04					
	2600265-113	154	02	12.00	02	200	150			800	N				GW	04					
	2600265-114	154	02	12.00	02	200	150			800	N				GW	04					
2600266	772.33		03	186.51	02	26	7/87	AG	GW	15			BARRON COLLIER - SILVER STRAND DIVISION				61	0.8	26	1212	0.50
	2600266-118	191	01	10.00	02	61					N		416815	764590							
	2600266-119	191	01	8.00	02	47					N		417909	761625	GW	01					

	2600266-129	192	01	8.00	02	98					N	419180	763918	GW	03					
	2600266-130	192	01	8.00	02	70					N	422627	763533	GW	03					
	2600266-131	192	01	8.00	02	56					N	424970	761649	GW	01					
	2600266-132	192	01	9.00	02	82					N	424945	763000	GW	03					
	2600266-133	192	01	9.00	02	82					N	424942	764886	GW	03					
	2600266-134	192	01	9.00	02	82					N	425405	765501	GW	03					
	2600266-77	192	01	6.00	02						N	419105	765877	GW	01					
	2600266-78	192	01	6.00	02						N	420365	764665	GW	01					
	2600266-79	192	01	8.00	02						N	420596	764019	GW	01					
	2600266-80	192	01	6.00	02						N	421775	762726	GW	01					
	2600266-81	192	01	8.00	02						N	421814	761267	GW	01					
	2600266-82	192	01	8.00	02	57					N	422523	764387	GW	01					
	2600266-83	192	01	8.00	02	56					N	424984	762504	GW	01					
2600267	1346.06		03	285.64	02	26	12/88	AG	GW	8		COLLIER ENTERPRISES				60	0.8	26	1350	0.50
	2600267-77	192	01	6.00	02						N	419105	765877	GW	01					
	2600267-78	192	01	6.00	02						N	420365	764665	GW	01					
	2600267-79	192	01	8.00	02						N	420596	764019	GW	01					
	2600267-14	191	01	8.00	02	60					N	415976	762346	GW	01					
	2600267-15	191	01	8.00	02	54					N	412636	761568	GW	01					
	2600267-16	191	01	8.00	02	52					N	411813	764282	GW	01					
	2600267-17	191	01	8.00	02	50					N	411684	765693	GW	01					
	2600267-18	191	01	8.00	02	61					N	415681	764767	GW	01					
2600270	97.74		03	35.97	02	26	7/87	AG	GW	2		R. A. BETHA - M & H FARMS				13	0.8	26	125	0.50
	2600270-92	207	01	6.00	02	55	42			800	N	427769	706419	GW	01					
	2600270-93	207	01	8.00	02	55	42			800	N	428351	707662	GW	01					
2600271	944.42		03	366.00	02	26	7/87	AG	BOTH	42	2	ALICO				13	0.8	15	2162	0.85
	2600271-		02	12.00	02	250				1200				GW	04	WELL LOCATIONS NOT FOUND IN PERMIT FILE				
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					

	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-		02	12.00	02	250				1200				GW	04					
	2600271-SW		02							9000				SW						
	2600271-SW		02							5200				SW						
2600273	61.79		03	17.14	02	26	9/87	AG	GW	3		KENNETH & CAROL RUTTER				13	0.8	15	80	0.85
2600273																61	0.8	15	33	0.50
	2600273-133	154	01	10.00	02	205				760	N	362312	847261	GW	04					
	2600273-134	154	01	10.00	02	22				400	N	362585	847213	GW	01					
	2600273-135	154	01	10.00	02	205				760	N	363446	846186	GW	04					
2600274	20.70		03	.254	01	26	9/87	AG	GW	2		JAMES KELLY				13	0.8	15	45	0.85
	2600274-82	134	02	10.00	02	150	120			1000		372806	881877	GW	04					
	2600274-83	134	02	10.00	02	150	120			1000		372855	881618	GW	04					
2600277	234.58		03	86.34	02	26	10/87	AG	GW	5		TURNER CORPORATION				13	0.8	15	510	0.85
	2600277-45	172	02	12.00	02	200	140		02	420	N	338465	813190	GW	04					
	2600277-46	172	02	12.00	02	200	140		02	425	N	338080	811812	GW	04					
	2600277-47	172	02	12.00	02	200	140		02	465	N	339065	810550	GW	04					
	2600277-48	172	02	12.00	02	200	140		02	550	N	339268	808882	GW	04					
	2600277-49	172	02	12.00	02	200	140		02	500	N	341436	811270	GW	04					
2600278	215.81		03	2.65	01	26	12/88	AG	GW	7		LaBELLE PLANT WORLD				13	0.8	15	476	0.85
	2600278-57	154	01	8.00	02	150				1250	N	373024	839787	GW	04					
	2600278-58	154	01	8.00	02	150				1250	N	375047	840423	GW	04					
	2600278-59	154	01	8.00	02	150				1250	N	373086	838055	GW	04					
	2600278-60	154	01	8.00	02	150				1250	N	375418	837763	GW	04					
	2600278-61	154	01	6.00	02	150				1000	N	373106	835745	GW	04					
	2600278-62	154	01	8.00	02	150				1250	N	374854	835833	GW	04					
	2600278-63	154	01	8.00	02	150				1250	N	376077	835753	GW	04					
2600279	582.28		03	199.60	02	26	10/87	AG	BOTH	4	2	GUTWEIN GROVES				13	0.8	15	1179	0.85
	2600279-126	172	02	8.00	02	240			02	600	N	337933	794070	GW	04					
	2600279-127	172	02	8.00	02	240			02	600	N	338011	792717	GW	04					
	2600279-128	172	02	8.00	02	240			02	600	N	341660	793542	GW	04					
	2600279-129	172	02	8.00	02	240			02	600	N	345252	796690	GW	04					
	2600279-SW	172								1000	N	399299	854351	SW						
	2600279-SW	172								3000	N	399379	848999	SW						
2600281	200.54		03	73.81	02	26	1/88	AG	GW	6		TURNER CORPORATION				13	0.8	15	436	0.85
	2600281-122	171	02	10.00	02	260	120		02	420	Y	323820	796484	GW	04					
	2600281-123	171	02	10.00	02	260	120		02	415	Y	324721	796526	GW	04					
	2600281-124	171	02	10.00	02	260	120		02	532	Y	321831	795916	GW	04					
	2600281-125	171	02	10.00	02	260	120		02	426	Y	322958	796469	GW	04					
	2600281-126	171	02	10.00	02	260	120		02	527	Y	322328	793747	GW	04					
	2600281-127	171	02	10.00	02	260	120		02	422	Y	326034	794093	GW	04					

2600282	515.15		03	189.60	02	26	12/87	AG	GW	11		USSC - DEVIL'S GARDEN CITRUS NORTH				13	0.8	26	1120	0.85
	2600282-200	193	02	10.00	02	100	60			600		471357	763117	GW	03					
	2600282-201	193	02	10.00	02	100	60			600		471064	774238	GW	03					
	2600282-202	193	02	10.00	02	100	60			600		473370	774329	GW	03					
	2600282-203	193	02	10.00	02	100	60			600		471225	776488	GW	03					
	2600282-204	193	02	10.00	02	100	60			600		473485	776608	GW	03					
	2600282-205	193	02	10.00	02	100	60			600		471157	779119	GW	03					
	2600282-206	193	02	10.00	02	100	60			600		473378	779180	GW	03					
	2600282-207	193	02	10.00	02	100	60			600		471100	781556	GW	03					
	2600282-208	193	02	10.00	02	100	60			600		473543	781591	GW	03					
	2600282-209	193	02	10.00	02	100	60			600		470642	784815	GW	03					
	2600282-210	193	02	10.00	02	100	60			600		470070	786915	GW	03					
2600293	163.77		03	36.68	02	26	12/88	AG	BOTH	1	Y	OSCAR TORRES				20	0.8	15	127	0.50
2600293																13	0.8	15	78	0.50
	2600293-9	156	01	8.00	02	25	18		01	500		434675	876841	GW	01					
	2600293-SW	156												SW						
2600294	43.70		03	16.08	03	26	3/88	AG	GW	1		T. C. & C. M. PERRY				13	0.8	15	95	0.85
	2600294-14	137	01	10.00	02	35				879	N	421300	881000	GW	01					
2600297	15.64		03	.192	01	26	4/88	AG	GW	1		JACKIE D. CORBITT				13	1.5	15	34	0.85
	2600297-52	153	01	6.00	02	100	65			150	N	324955	871486	GW	04					
2600300	1294.31		03	476.38	03	26	1/89	AG	GW	54		COLLIER ENTERPRISES - CROW'S NEST				13	0.8	26	2816	0.85
	2600300-36	192	01	8.00	02	49						438402	758983	GW	03					
	2600300-37	192	01	8.00	02	47						438418	758070	GW	03					
	2600300-38	192	01	8.00	02	48						438418	757570	GW	03					
	2600300-39	192	01	8.00	02	48						438532	757130	GW	03					
	2600300-40	192	01	8.00	02	50						440035	760460	GW	03					
	2600300-41	192	01	20.00	02	91						440018	759106	GW	03					
	2600300-42	192	01	8.00	02	52						441398	759753	GW	03					
	2600300-43	192	01	8.00	02	51						441400	758845	GW	03					
	2600300-44	192	01	8.00	02	37						441418	757692	GW	03					
	2600300-45	192	01	8.00	02	42						441958	759963	GW	03					
	2600300-46	192	01	8.00	02	51						435540	751806	GW	03					
	2600300-47	192	01	8.00	02	60						436325	747380	GW	03					
	2600300-48	192	01	6.00	02	65						435251	746328	GW	03					
	2600300-49	192	01	9.00	02	62						435781	743741	GW	03					
	2600300-50	192	01	9.00	02	62						433723	742229	GW	03					
	2600300-51	192	01	6.00	02	102						445642	760007	GW	03					
	2600300-52	192	01	6.00	02	84						446982	758192	GW	03					
	2600300-82	192	01	8.00	02	57						422523	764387	GW	03					
	2600300-83	192	01	8.00	02	56						424984	762504	GW	03					
	2600300-84	192	01	1.50	02							427700	765453	GW	03					
	2600300-85	192	01	8.00	02	78						430831	765560	GW	03					
	2600300-86	192	01	6.00	02	87						427577	764647	GW	03					
	2600300-87	192	01	6.00	02	56						429008	763378	GW	03					
	2600300-88	192	01	6.00	02	61						431358	764492	GW	03					
	2600300-89	192	01	8.00	02	64						431315	763462	GW	03					
	2600300-90	192	01	6.00	02	65						431349	762319	GW	03					
	2600300-91	192	01	6.00	02	53						431018	761702	GW	03					
	2600300-92	192	01	2.00	02							438156	763268	GW	03					
	2600300-93	192	01	8.00	02	83						443679	765730	GW	03					
	2600300-94	192	01	9.00	02							444544	765621	GW	03					
	2600300-95	192	01	8.00	02							447023	765509	GW	03					
	2600300-96	192	01	8.00	02	47						443743	763430	GW	03					
	2600300-97	192	01	8.00	02	80						444208	762719	GW	03					

	2600300-98	192	01	6.00	02							446915	763937	GW	03					
	2600300-99	192	01	8.00	02							451818	766080	GW	03					
	2600300-100	192	01	8.00	02							448966	765338	GW	03					
	2600300-101	192	01	6.00	02							448508	764017	GW	03					
	2600300-102	192	01	8.00	02							451571	764181	GW	03					
	2600300-103	192	01	6.00	02							451842	762961	GW	03					
	2600300-104	192	01	8.00	02							454251	765994	GW	03					
	2600300-105	192	01	12.50	02	25						456946	765545	GW	01					
	2600300-106	192	01	8.00	02	61						454105	764241	GW	03					
	2600300-107	192	01	6.00	02							454727	762996	GW	03					
	2600300-108	192	01	12.00	02							456409	764697	GW	03					
	2600300-109	192	01	8.00	02							458707	763108	GW	03					
	2600300-120	192	02	12.00	02	100				1400		441715	762384	GW	03					
	2600300-121	192	02	12.00	02	100				1400		438383	762336	GW	03					
	2600300-122	192	02	12.00	02	100				1400		438666	765316	GW	03					
	2600300-123	192	02	12.00	02	100				1400		434626	762843	GW	03					
	2600300-124	192	02	12.00	02	100				1400		433174	765174	GW	03					
	2600300-125	192	02	12.00	02	100				1400		435777	765175	GW	03					
	2600300-126	192	02	12.00	02	100				1400		430987	762376	GW	03					
	2600300-127	192	02	12.00	02	100				1400		427971	762257	GW	03					
	2600300-128	192	02	12.00	02	100				1400		430434	765419	GW	03					
2600310	49.68		03	18.28	02	26	**8/88**	**AG**	**BOTH**	2	Y	WITT BROS. GROVES				13	0.8	15	108	0.85
	2600310-46	156	01	8.00	02						N	431836	871798	GW	03					
	2600310-47	156	02	6.00	02	100				800	N	433003	872325	GW	03					
	2600310-SW	156																		
2600312	32.43		03	11.93	02	26	**8/88**	**AG**	**GW**	1		MADDOX GROVE				13	0.8	15	71	0.85
	2600312-126	154	01	9.00	02	200				600	N	367886	846218	GW	04					
2600315	459.95		03	169.29	02	26	**8/88**	**AG**	**BOTH**	22	6	ALICO				13	0.8	15	1000	0.85
	2600315-24	155	02	8.00	02	270	**240**		**02**	**600**	**Y**	415400	835600	GW	04					
	2600315-25	155	02	8.00	02	270	**240**		**02**	**600**	**Y**	415400	833600	GW	04					
	2600315-26	155	02	8.00	02	270	**240**		**02**	**600**	**Y**	414800	840400	GW	04					
	2600315-27	155	02	8.00	02	270	**240**		**02**	**600**	**Y**	412900	836300	GW	04					
	2600315-28	155	02	8.00	02	270	**240**		**02**	**600**	**Y**	409800	836500	GW	04					
	2600315-29	155	02	8.00	02	270	**240**		**02**	**600**	**Y**	410100	833300	GW	04					
	2600315-30	155	02	8.00	02	270	**240**		**02**	**600**	**Y**	406100	833400	GW	04					
	2600315-31	155	02	8.00	02	270	**240**		**02**	**600**	**Y**	407200	840100	GW	04					
	2600315-32	155	02	8.00	02	270	**240**		**02**	**600**	**Y**	404900	838000	GW	04					
	2600315-19	173	02	8.00	02	270	**240**		**02**	**600**	**Y**	406700	836500	GW	04					
	2600315-20	173	02	8.00	02	270	**240**		**02**	**600**	**Y**	413700	826000	GW	04					
	2600315-21	173	02	8.00	02	270	**240**		**02**	**600**	**Y**	413700	827400	GW	04					
	2600315-22	173	02	8.00	02	270	**240**		**02**	**600**	**Y**	415500	830100	GW	04					
	2600315-23	173	02	8.00	02	270	**240**		**02**	**600**	**Y**	415400	831900	GW	04					
	2600315-24	173	02	8.00	02	270	**240**		**02**	**600**	**Y**	409300	831900	GW	04					
	2600315-25	173	02	8.00	02	270	**240**		**02**	**600**	**Y**	411100	830000	GW	04					
	2600315-26	173	02	8.00	02	270	**240**		**02**	**600**	**Y**	409500	826400	GW	04					
	2600315-27	173	02	8.00	02	270	**240**		**02**	**600**	**Y**	410000	822500	GW	04					
	2600315-28	173	02	8.00	02	270	**240**		**02**	**600**	**Y**	410700	823100	GW	04					
	2600315-29	173	02	8.00	02	270	**240**		**02**	**600**	**Y**	406300	826800	GW	04					
	2600315-30	173	02	8.00	02	270	**240**		**02**	**600**	**Y**	405900	823900	GW	04					
	2600315-31	173	02	8.00	02	270	**240**		**02**	**600**	**Y**	405900	818900	GW	04					
	2600315-32	173	02	8.00	02	270	**240**		**02**	**600**	**Y**	405100	830400	GW	04					
	2600315-B		02							1000		415600	827600	SW						
	2600315-C		02							1000		415600	830800	SW						
	2600315-D		02							1000		415500	834300	SW						
	2600315-E		02							1200		415500	837800	SW						

	2600315-J		02							4500		412000	824100	SW						
	2600315-N		02							1500		407200	841100	SW						
2600318	321.97		03	118.50	02	26	9/88	AG	GW	15		AGRO, INC.				13	0.8	15	700	0.85
	2600318-27	157	01	10.00	02	217				500	N	463684	850251	GW	04					
	2600318-28	157	02	10.00	02	217				500	N	461221	852703	GW	04					
	2600318-29	157	02	10.00	02	217				500	N	463090	852732	GW	04					
	2600318-30	157	02	10.00	02	217				500	N	459829	851259	GW	04					
	2600318-31	157	02	10.00	02	217				500	N	460643	849935	GW	04					
	2600318-32	157	02	10.00	02	217				500	N	461782	849969	GW	04					
	2600318-33	157	02	10.00	02	217				500	N	460311	848511	GW	04					
	2600318-34	157	02	10.00	02	217				500	N	461687	848507	GW	04					
	2600318-35	157	02	10.00	02	217				500	N	464335	848758	GW	04					
	2600318-36	157	02	10.00	02	217				500	N	467121	852326	GW	04					
	2600318-37	157	02	10.00	02	217				500	N	466545	849640	GW	04					
	2600318-38	157	02	10.00	02	217				500	N	468498	851226	GW	04					
	2600318-39	157	02	10.00	02	217				500	N	468295	849694	GW	04					
	2600318-40	157	02	10.00	02	217				500	N	469806	849606	GW	04					
	2600318-41	157	02	10.00	02	217				500	N	470296	851396	GW	04					
2600320	29.90		03	4.5	01	26	9/88	AG	BOTH	1	1	JAMES CHESTER WINN				15	0.8	15	30	0.85
	2600320-45	156	02	6.00	02	100				900	N	426439	866764	GW	03					
	2600320-SW	156	02							2000	N	426643	866712	SW						
2600322	18.40		03	.266	01	26	10/88	AG	GW	2		WAYNE H. SIMMONS				13	0.8	15	40	0.85
	2600322-121	154	02	10.00	02	250				450	N	355614	840858	GW	04					
	2600322-122	154	02	10.00	02	250				450	N	356102	842308	GW	04					
2600325	6.52		03	2.4	02	26	12/88	AG	GW	2		ABC FARMS				13	0.8	15	12	0.75
	2600325-132	172	01	12.00	02	200	140		02	800	N	364625	798706	GW	04					
	2600325-133	172	02	12.00	02	200	140		02	800	N	364647	798893	GW	04					
2600327	114.50		03	42.05	02	26	1/89	AG	GW	4		GEORGE VALDEZ (SANTA BARBERA RANCH)				13	0.8	15	249	0.85
	2600327-10	137	02	10.00	02	135	80			875	N	426778	883458	GW	03					
	2600327-11	137	02	10.00	02	135	80			875	N	427152	881683	GW	03					
	2600327-12	137	02	10.00	02	135	80			875	N	430318	881274	GW	03					
	2600327-13	137	02	10.00	02	135	80			875	N	430718	883773	GW	03					

HENDRY COUNTY MODEL AREA WATER USE

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.	MO. UTS.	CO	DATE ISS.	USE TYPE	SRC.	NO. WLS.	SW PMPS	OWNER	CROP TYPE	SOIL TYPE	RAIN ST	IRR ACRES	IRR EFF
800002	29930.41	03	4389.23	02	8	9/88	AG	GW	62	-0	BABCOCK	61	0.8	15	4615	0.50
800002											(Only part of permit in modelled area)	53	0.8	15	1500	0.50
800002												15	0.8	15	300	0.50

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

PERMIT NO.	FACILITY NUMBER	QUAD NO.	STS	WELL DIA.	DPTH CODE	TD	CD	PMP INT	PUMP TYPE	PUMP CAP.	MTR?	XPLNR	YPLNR	SRC	AQ.	COMMENTS
	0800002-68	152	01		02				03		N	286559	877376	GW	04	
	0800002-69	152	01	6.00	02				03	600	N	283350	874588	GW	04	
	0800002-70	152	01		02	105			03		N	288859	877601	GW	04	
	0800002-71	152	01	6.00	02				03	400	N	289882	878182	GW	04	
	0800002-72	152	01		02				03		N	290215	874491	GW	04	
	0800002-73	152	01		02	70			03		N	291536	874764	GW	04	
	0800002-74	152	01	6.00	02	60			03	450	N	294963	876641	GW	04	
	0800002-84	134	01	8.00	02	60	20		03	650	N	337931	888945	GW	03	
	0800002-85	134	01	8.00	02	60	20		03	650	N	337808	885919	GW	03	
	0800002-86	134	02	8.00	02	60	20		03	650	N	343971	889828	GW	03	
	0800002-87	134	02	8.00	02	60	20		03	650	N	345324	890459	GW	03	
	0800002-88	134	02	8.00	02	60	20		03	650	N	345896	894616	GW	03	
	0800002-89	134	02	8.00	02	60	20		03	650	N	343424	894423	GW	03	
	0800002-90	134	01	8.00	02	13			03	600	N	348104	900700	GW	01	
	0800002-91	134	01	9.00	02				03	800	N	348485	900628	GW	01	
	0800002-92	134	01	8.00	02				03	600	N	347869	899293	GW	01	
	0800002-93	134	01	8.00	02				03	600	N	348079	899210	GW	01	
	0800002-94	134	01	8.00	02				03	600	N	347852	899014	GW	01	
	0800002-95	134	01	8.00	02	460			03	600	N	348095	898961	GW	01	
	0800002-96	134		10.00	02	40			03	350	N	348288	906545	GW	05	
	0800002-97	134	01	6.00	02	40			03	400	N	346193	905945	GW	03	
	0800002-98	134	01	6.00	02	40			03	400	N	346079	904422	GW	03	
	0800002-99	134	01	9.00	02				03	700	N	346009	903467	GW	03	
	0800002-100	134	01		02	30			03		N	347827	901567	GW	03	
	0800002-101	134	01	8.00	02	45			03	400	N	0	0	GW	01	
	0800002-102	134	01	9.00	02	100			03	600	N	341550	906461	GW	03	
	0800002-103	134	01	9.00	02	45			03	600	N	341293	905982	GW	04	
	0800002-104	134	01	9.00	02	30			03	600	N	341588	905746	GW	03	
	0800002-105	134	01	9.00	02	600			03	350	N	342018	903753	GW	01	
	0800002-106	134		6.00	02				03	300	N	342049	902775	GW	05	
	0800002-107	134	01	8.00	02				03	500	N	341806	902519	GW		
	0800002-108	134	01	8.00	02	26			03	200	N	341816	902263	GW	01	
	0800002-109	134	01	8.00	02	570			03	350	N	342282	902243	GW	01	
	0800002-110	134		12.00	02	45			03	1000	N	342363	901675	GW	05	
	0800002-111	134	01	9.00	02	34			03	600	N	342692	902143	GW	03	
	0800002-112	134	01	6.00	02	45			03	700	N	340191	906552	GW	01	
	0800002-113	134	01	6.00	02	27			03	600	N	339722	906563	GW	03	
	0800002-114	134	01	6.00	02				03	600	N	338412	906043	GW	01	

	0800002-115	134	01	6.00	02	32			03	600	N	337519	905824	GW	01					
	0800002-116	134	01	6.00	02	33			03	500	N	340077	905101	GW	01					
	0800002-117	134	01	6.00	02				03	600	N	340210	905741	GW	01					
	0800002-118	134	01	6.00	02				03	600	N	339109	902658	GW	01					
	0800002-119	134	01	6.00	02				03	600	N	339828	902772	GW	01					
	0800002-120	134	01	6.00	02	30			03	600	N	339955	902470	GW	01					
	0800002-121	134	01	6.00	02	30			03	600	N	339911	911751	GW	01					
	0800002-122	134	01	6.00	02	30			03	500	N	340770	911175	GW	01					
	0800002-123	134	01	6.00	02	30			03	800	N	342284	910021	GW	01					
	0800002-124	134	01	6.00	02	30			03	500	N	341719	909198	GW	01					
	0800002-125	134	01	8.00	02	35			03	600	N	343165	908644	GW	01					
	0800002-126	134	01	8.00	02	26			03	400	N	343616	907285	GW	01					
	0800002-127	134	01	8.00	02	45			03	350	N	344217	907655	GW	01					
	0800002-128	134	01	9.00	02	45			03	500	N	343795	906825	GW	03					
	0800002-129	134	01	9.00	02	30			03	500	N	344524	906824	GW	01					
	0800002-130	134	01	8.00	02	45			03	400	N	344906	907660	GW	01					
	0800002-131	134	01	9.00	02	45			03	800	N	345532	907262	GW	03					
	0800002-132	134	01	9.00	02	70			03	800	N	345918	908023	GW	03					
	0800002-133	134	01	6.00	02	70			03	500	N	346845	907466	GW	03					
	0800002-134	134	01	6.00	02	70			03	600	N	347551	907633	GW	03					
	0800002-135	134	01	6.00	02	60			03	400	N	348801	907440	GW	03					
	0800002-136	134	01	6.00	02	70			03	500	N	349612	907380	GW	03					
	0800002-137	134	01	6.00	02	60			03	600	N	350203	907740	GW	03					
	0800002-138	134	02	8.00	02		20		03	650	N	351028	906511	GW	03					
1100003	116.14		03	42.75	02	11	8/87	AG	GW	2		BERRY GROVES				13	0.8	26	149	0.50
	1100003-17	190	01		02	175				250		352585	781673	GW	04					
	1100003-18	190	01		02	175				250		352604	780947	GW	04					
1100007	163.57		03	49.5	02	11	7/77	AG	GW	7		C. A. THOMAS				15	0.8	26	240	0.50
	1100007-111	191	01		02							391886	749868	GW	03					
	1100007-112	191	01		02							390353	749919	GW	03					
	1100007-113	191	01		02							391436	748807	GW	03					
	1100007-114	191	01		02							391943	748299	GW	03					
	1100007-115	191	01		02							392450	747837	GW	03					
	1100007-116	191	01		02							391213	747722	GW	03					
	1100007-117	191	01		02							390312	747128	GW	03					
1100024				47.38	02	24	4/87	AG	GW	9		IFAS				15	0.8	15	115	0.50
1100024																13	0.8	15	70	0.50
1100024																61	0.8	15	20	0.50
1100024																01	0.8	15	40	0.50
	1100024-14	190	01		02	102				650		355429	773824	GW	01					
	1100024-15	190	01		02	170				60		356726	773484	GW	04					
	1100024-16	190	01		02	80				90		352997	773257	GW	01					
	1100024-304	190	02		02	100						352833	775061	GW	01					
	1100024-305	190	02		02	100						353636	773880	GW	01					
	1100024-306	190	01		02	100				650		354373	774588	GW	01					
	1100024-307	190	02		02	100						355641	773292	GW	01					
	1100024-308	190	01		02	97				150		356173	773268	GW	01					
	1100024-309	190	01		02	80				0		358170	771116	GW	01					
1100034	84.72		03			11	11/78	AG	GW	6		JOHN E. PRICE, JR.				13	0.8	26	240	0.50
	1100035-85	206	01	8.00	02					1200		392838	721081	GW	03					
	1100035-86	206	01	8.00	02					1200		394768	721084	GW	03					
	1100035-87	206	01	8.00	02					1200		391809	719995	GW	03					
	1100035-88	206	01	8.00	02					1200		392928	719758	GW	03					
	1100035-89	206	01	8.00	02					1200		394344	719854	GW	03					

	1100035-90	206	01	8.00	02					1200		394896	718816	GW	03					
	1100035-91	206	01	8.00	02					1200		379078	735748	GW	03					
1100035	344.68		03	98.91	02	11	1/89	AG	GW	19		JOHN E. PRICE, JR.				61	3.6	26	450	0.50
1100035																13	3.6	26	175	0.50
	1100035-176	206	01	4.00	02	100				400		405012	709836	GW	03					
	1100035-177	206	03	6.00	02	100				600		393716	710624	GW	03					
	1100035-178	206	01	6.00	02	100				600		394763	710615	GW	03					
	1100035-179	206	01	6.00	02	100				600		397601	713205	GW	03					
	1100035-180	206	01	6.00	02	100				600		399634	713269	GW	03					
	1100035-181	206	01	6.00	02	100				600		387075	710046	GW	03					
	1100035-182	206	01	6.00	02	100				600		386944	708086	GW	03					
	1100035-183	206	01	8.00	02	100				1200		389324	711069	GW	03					
	1100035-184	206	01	8.00	02	100				1200		390392	709977	GW	03					
	1100035-185	206	01	8.00	02	100				1200		390547	711118	GW	03					
	1100035-186	206	03	8.00	02	100				1200		390042	715673	GW	03					
	1100035-187	206	03	8.00	02	100				1200		402545	699368	GW	03					
	1100035-188	206	03	8.00	02	100				1200		397737	700809	GW	03					
	1100035-189	206	03	8.00	02	100				1200		399927	701243	GW	03					
	1100035-190	206	03	8.00	02	100				1200		400368	698685	GW	03					
	1100035-191	206	03	8.00	02	100				1200		398111	698518	GW	03					
	1100035-192	206	01	12.00	02	100				1200		398946	711411	GW	03					
	1100035-193	206	01	12.00	02	100				1200		399689	712155	GW	03					
	1100035-194	206	01	12.00	02	100				1200		397378	698547	GW	03					
1100036	136.52		03			11	5/78	AG	GW	11		DAVID C BROWN				13	0.8	26	365	0.85
177	1100036-94	172	01	8.00	02	102						347703	789943	GW	03	15	0.8	26	253	0.50
	1100036-95	172	01	8.00	02	102						349291	789967	GW	03					
	1100036-96	172	01	8.00	02	102						350899	790007	GW	03					
	1100036-97	172	01	8.00	02	102						351425	788503	GW	03					
	1100036-8	190	01	8.00	02	102				350		348553	785891	GW	03					
	1100036-9	190	01	8.00	02	102				350		350429	786130	GW	03					
	1100036-10	190	01	8.00	02	102				350		351189	786697	GW	03					
	1100036-11	190	01	8.00	02	102				350		349720	786605	GW	03					
	1100036-12	190	01	8.00	02	102				350		347523	786569	GW	03					
	1100036-13	190	01	8.00	02	102				350		347666	787318	GW	03					
	1100036-259	190	02	8.00	02	200				350		0	0	GW	04					
1100037	51.82		03			11	5/78	AG	GW	5		H. I. H. GROVES				13	0.8	26	40	0.85
1100037																15	0.8	26	198	0.50
	1100037-1	224	01	8.00	02	83	65			800	N	526200	691470	GW	03					
	1100037-2	224	01	8.00	02	103	72			800	N	526200	691470	GW	03					
	1100037-3	224	01	8.00	02	83	65			800	N	526200	691470	GW	03					
	1100037-4	224	02	8.00	02	100	65			800	N	526200	691470	GW	03					
	1100037-5	224	02	8.00	02	100	65			800	N	526200	691470	GW	03					
1100042	849.00		03	200.27	02	11	11/84	AG	GW	47	0	COLLIER COMPANY -.GROVE DIVISION				12	0.8	26	140	0.75
1100042																13	0.8	26	1080	0.75
	1100042-48	206	01	8.00	02	80	22		03	1000	N	409800	733050	GW	03					
	1100042-49	206	01	8.00	02	80	22		03	1000	N	409500	733050	GW	03					
	1100042-50	206	01	8.00	02	80	22		03	1000	N	408650	733050	GW	03					
	1100042-51	206	01	8.00	02	290	190		03	400	N	408400	733050	GW	04					
	1100042-52	206	01	16.00	02	90	39		02	1500	N	409600	732000	GW	03					
	1100042-53	206	01	8.00	02	75	45		03	1000	N	406400	732000	GW	03					
	1100042-54	206	01	16.00	02	78	18		02	1500	N	409800	730800	GW	03					
	1100042-55	206	01	5.00	02	80	20		03	500	N	408650	730700	GW	03					
	1100042-56	206	01	6.00	02	300	197		03	800	N	407850	730700	GW	04					
	1100042-57	206	01	8.00	02	70	30		03	1000	N	406200	730700	GW	03					

	1100042-58	206	01	8.00	02	300	200	03	500	N	406200	731000	GW	04					
	1100042-59	206	01	8.00	02	60	40	03	1000	N	404200	730600	GW	03					
	1100042-60	206	01	8.00	02	290	240	03	800	N	404200	731000	GW	04					
	1100042-61	206	01	8.00	02	65	58	03	600	N	401200	730600	GW	03					
	1100042-62	206	01	16.00	02	79	32	02	1500	N	409600	729600	GW	03					
	1100042-63	206	01	10.00	02	90	33	03	1000	N	409600	728400	GW	03					
	1100042-64	206	01	10.00	02	90	33	03	1000	N	409600	727800	GW	03					
	1100042-65	206	01	8.00	02	315	212	03	800	N	407900	728300	GW	04					
	1100042-66	206	01	8.00	02	120	44	03	550	N	406500	728300	GW	03					
	1100042-67	206	01	16.00	02	75	20	02	1500	N	411000	727000	GW	03					
	1100042-68	206	01	16.00	02	70	20	02	1500	N	409600	727000	GW	03					
	1100042-69	206	01	6.00	02	75	40	03	900	N	406500	727000	GW	03					
	1100042-70	206	01	8.00	02	80	27	01	1000	N	409600	725300	GW	03					
	1100042-71	206	01	8.00	02	300	200	03	500	N	409600	725600	GW	04					
	1100042-72	206	01	8.00	02	300	200	03	500	N	408150	725600	GW	04					
	1100042-73	206	01	6.00	02	200	100	03	500	N	405500	725600	GW	03					
	1100042-74	206	01	10.00	02	90	33	03	1000	N	410150	731950	GW	03					
	1100042-75	206	01	10.00	02	90	33	03	1000	N	410150	731400	GW	03					
	1100042-76	206	01	10.00	02	90	33	03	1000	N	410400	730800	GW	03					
	1100042-77	206	01	10.00	02	90	33	03	1000	N	410400	730000	GW	03					
	1100042-78	206	01	10.00	02	90	33	03	1000	N	410400	729400	GW	03					
	1100042-79	206	01	10.00	02	90	33	03	1000	N	410400	728600	GW	03					
	1100042-80	206	01	13.00	02	45	28	02	1250	N	406900	732700	GW	01					
	1100042-81	206	01	13.00	02	53	25	02	1250	N	407800	732700	GW	01					
	1100042-82	206	01	13.00	02	53	34	02	1250	N	406800	732700	GW	01					
	1100042-83	206	01	13.00	02	55	32	02	1250	N	409400	732700	GW	01					
	1100042-84	206	01	13.00	02	46	39	02	1250	N	410100	732700	GW	01					
1100056	34.86		03			11	7/78 AG	GW	7		E.L. JOHNSON, JR.				15	0.8	15	155	0.50
	1100056-1	190	01	8.00	02	200			1200		356444	777393	GW	04					
	1100056-2	190	01	6.00	02	200					356787	778673	GW	04					
	1100056-3	190	01	6.00	02	200					357257	778708	GW	04					
	1100056-4	190	01	6.00	02	200					357600	779305	GW	04					
	1100056-5	190	01	8.00	02	200					357572	776704	GW	04					
	1100056-6	190	01	8.00	02	200					357001	776676	GW	04					
	1100056-7	190	01	6.00	02	200					355829	779000	GW	04					
1100068	21.73		03			11	10/78 AG	GW	3		CARROLL & RENEE ROLLINS				13	0.8	15	50	0.80
1100068															13	0.8	15	50	0.50
	1100068-37	190	01	6.00	02	240	190		250		352621	784924	GW	04					
	1100068-38	190	01	8.00	02	65			350		354086	784945	GW	03					
	1100068-39	190	02	6.00	02						352517	787391	GW	04					
1100081	8.70		02			11	12/78 AG	GW	1		SAM E. HEATH				13	0.8	15	40	0.50
	1100081-29	190	01	8.00	02	135			500		352596	783831	GW	04					
1100082	635.37		03			11	12/78 AG	GW	6		GEORGE FORTSON				15	0.8	15	1100	0.50
	1100082-31	190	01	8.00	02				1500		346758	770286	GW	04					
	1100082-32	190	01	8.00	02						344824	770858	GW	04					
	1100082-33	190	01	8.00	02						343428	770831	GW	04					
	1100082-34	190	01	8.00	02						342376	770264	GW	04					
	1100082-35	190	01	8.00	02						343596	768807	GW	04					
	1100082-36	190	01	6.00	02						336589	770091	GW	04					
1100083	8.70		03			11	12/78 AG	GW	1		WILLIARD DURRANCE				13	0.8	15	40	0.50
	1100083-28	190	01	8.00	02	84			500		355570	783014	GW	03					
1100088	15.22		03			11	12/78 AG	GW	1		WILLIAM LEINWEBER				13	0.8	15	70	0.50

	1100088-27	190	01	6.00	02					500		351637	783822	GW	01					
1100091	15.22		03			11	12/78	AG	GW	1		R.A. BETHEA, JR.				13	0.8	15	70	0.50
	1100091-26	190	01	6.00	02					500		350635	784074	GW	01					
1100093	28.44		03			11	12/78	AG	GW	2		TONY ROSBOUGH				13	0.8	15	131	0.50
	1100093-24	190	01	6.00	02					500		348403	784715	GW	01					
	1100093-25	190	01	6.00	02							349322	784424	GW	01					
1100094	2774.00		03	576.36	02	11	1/87	AG	BOTH	53	3	TURNER CORPERATION				13	1.5	15	2575	0.85
	1100094-135	190	01	8.00	02	60	40			600		342000	783200	GW	01					
	1100094-136	190	03		02	60	40					242100	783800	GW	01					
	1100094-137	190	01	8.00	02	60	40			600		342150	784500	GW	01					
	1100094-138	190	01	8.00	02	60	40			600		341600	785700	GW	01					
	1100094-139	190	03		02							338000	786150	GW	04					
	1100094-140	190	01	8.00	02	160	100			600		342150	785700	GW	04					
	1100094-141	190	03		02							342150	785050	GW	04					
	1100094-142	190	03		02							341532	786547	GW	04					
	1100094-143	190	01	8.00	02	260	140			600		342300	786200	GW	04					
	1100094-144	190	03		02	60	40			900		343700	782400	GW	01					
	1100094-145	190	01	8.00	02	80	50			600		343650	784550	GW	01					
	1100094-146	190	01	8.00	02	215	138			1000		344800	784550	GW	04					
	1100094-147	190	01	8.00	02	195	135			1000		344900	783500	GW	04					
	1100094-148	190	01	8.00	02	300	250			600		346250	782700	GW	04					
	1100094-149	190	01	8.00	02	60	40			600		347100	781100	GW	01					
	1100094-150	190	01	8.00	02	60	40			600		343600	779700	GW	01					
	1100094-151	190	03	8.00	02	60	40					342500	776600	GW	01					
	1100094-152	190	01	8.00	02	195	135			1000		343700	777400	GW	04					
	1100094-153	190	01	8.00	02	269	208			300		345700	777400	GW	04					
	1100094-154	190	01	12.00	02	60	40			600		344800	780200	GW	01					
	1100094-155	190	01	8.00	02	290	238			600		345950	780650	GW	04					
	1100094-156	190	01	8.00	02	275	168			600		343800	778300	GW	04					
	1100094-157	190	01	8.00	02	275	172			800		343900	777400	GW	04					
	1100094-158	190	01	8.00	02	60	40			600		339600	777700	GW	01					
	1100094-159	190	01	8.00	02	60	40					339600	780550	GW	01					
	1100094-160	190	01	10.00	02	60	40			900		341900	779150	GW	01					
	1100094-161	190	01	10.00	02	60	40			600		341900	780450	GW	01					
	1100094-162	190	01	8.00	02	60	40			600		342000	781500	GW	01					
	1100094-163	190	01	8.00	02	60	40			600		341950	777800	GW	01					
	1100094-164	190	01	8.00	02	60	40			600		341950	446900	GW	01					
	1100094-165	190	01	8.00	02	60	40			600		339650	772300	GW	01					
	1100094-166	190	01	8.00	02	60	40			600		340700	775400	GW	04					
	1100094-167	190	01	8.00	02	60	40			600		339600	776250	GW	01					
	1100094-168	190	01	8.00	02	236	174			1000		339050	775050	GW	04					
	1100094-169	190	01	8.00	02	185	180			1000		339700	773600	GW	04					
	1100094-170	190	01	12.00	02	235	167			2000		338100	773600	GW	04					
	1100094-171	190	01	8.00	02	60	40			600		342500	771700	GW	01					
	1100094-172	190	01	8.00	02	60	40			600		343100	772100	GW	01					
	1100094-173	190	01	8.00	02	60	40			600		346200	772550	GW	01					
	1100094-174	190	01	8.00	02	60	40			600		346100	775200	GW	01					
	1100094-175	190	01	8.00	02	60	40			600		343150	775500	GW	01					
	1100094-176	190	01	8.00	02	60	40			600		343150	776200	GW	01					
	1100094-177	190	01	8.00	02	60	40			600		342000	771000	GW	01					
	1100094-178	190	01	8.00	02	60	40			600		341500	770900	GW	01					
	1100094-247	190	01	8.00	02	275	172			800		343900	777400	GW	04					
	1100094-248	190	01	10.00	02	275	240			650		339600	776600	GW	04					
	1100094-249	190	01	10.00	02	270	235			650		339600	777800	GW	04					
	1100094-250	190	01	10.00	02	260	223			650		339600	779150	GW	04					

	1100094-251	190	01	10.00	02	260	220			650	339600	780650	GW	04					
	1100094-252	190	01	10.00	02	260	220			700	339600	781800	GW	04					
	1100094-253	190	02	10.00	02	260	220			600	339469	784577	GW	04					
	1100094-254	190	02	10.00	02	260	220			600	339442	786029	GW	04					
	1100094-255	190	02	10.00	02	260	220			600	343825	766586	GW	04					
	1100094-SW1	190	01							2500	338000	772900	SW						
	1100094-SW2	190	01							2500	338000	773200	SW						
	1100094-SW3	190	01							6000	338000	776150	SW						
1100100				678.27	02	11	8/86	AG	GW	31	BARRON COLLIER				61	0.8	26	3331	0.50
	1100100-34	191	01		02	21					406065	756853	GW	01					
	1100100-35	191	01		02	54					407923	756670	GW	01					
	1100100-36	191	01		02	60					408947	757586	GW	03					
	1100100-37	191	01		02	64					408626	755766	GW	03					
	1100100-38	191	01		02	62					403104	755757	GW	03					
	1100100-39	191	01		02	18					396865	759428	GW	01					
	1100100-40	191	01		02						392307	756289	GW	01					
	1100100-41	191	01		02	30					383423	755531	GW	01					
	1100100-42	191	01		02	26					383494	756881	GW	01					
	1100100-43	191	01		02						384054	757463	GW	01					
	1100100-44	191	01		02	25					382256	756891	GW	01					
	1100100-45	191	01		02	23					380251	757686	GW	01					
	1100100-46	191	01		02						379753	757159	GW	01					
	1100100-47	191	01		02	21					384001	755125	GW	01					
	1100100-48	191	01		02	28					383012	753227	GW	01					
	1100100-49	191	01		02	29					381830	750207	GW	01					
	1100100-50	191	01		02						388242	754522	GW	01					
	1100100-51	191	01		02						387622	750497	GW	01					
	1100100-52	191	01		02						385862	753166	GW	01					
	1100100-53	191	01		02	24					395378	752126	GW	01					
	1100100-54	191	01		02	22					397999	753152	GW	01					
	1100100-55	191	01		02	15					403716	754712	GW	01					
	1100100-56	191	01		02	31					404695	752173	GW	01					
	1100100-57	191	01		02	37					407314	752923	GW	01					
	1100100-58	191	01		02	34					384104	749417	GW	01					
	1100100-59	191	01		02	25					381033	748575	GW	01					
	1100100-60	191	01		02	54					381212	748088	GW	01					
	1100100-61	191	01		02	71					382741	746289	GW	03					
	1100100-62	191	01		02	32					384363	749942	GW	01					
	1100100-63	191	01		02						384062	748575	GW	01					
	1100100-64	191	01		02	30					384075	748077	GW	01					
1100101				65.00	02	11	3/82	AG	GW	2	THE COLLIER COMPANY				61	0.8	26	146	0.50
1100101															15	0.8	26	1104	0.50
	1100101-1	221	01		02					600	390733	682095	GW	01					
	1100101-2	221	01		02					900	390733	682095	GW	01					
1100102	1596.56		03			11	1/79	AG	GW	35	THE COLLIER COMPANY				61	3.6	15	2157	0.50
1100102															20	3.6	15	1500	0.50
	1100102-94	206	01	9.00	02					900	386745	728835	GW	03					
	1100102-95	206	01	9.00	02					900	386754	727863	GW	03					
	1100102-96	206	01	9.00	02					900	386849	726838	GW	03					
	1100102-97	206	01	9.00	02					900	386839	725902	GW	03					
	1100102-98	206	01	9.00	02					900	386912	724188	GW	03					
	1100102-99	206	01	8.00	02					800	384913	724383	GW	03					
	1100102-100	206	01	8.00	02					800	389620	726478	GW	03					
	1100102-101	206	01	10.00	02					1000	389587	725111	GW	03					
	1100102-102	206	01	10.00	02					1000	379627	728417	GW	03					

	1100102-103	206	01	9.00	02					900	380187	726877	GW	03					
	1100102-104	206	01	9.00	02					900	380703	726386	GW	03					
	1100102-105	206	01	9.00	02					900	383478	726344	GW	03					
	1100102-106	206	01	8.00	02					800	379568	723855	GW	03					
	1100102-107	206	01	9.00	02					900	379578	723488	GW	03					
	1100102-108	206	01	9.00	02					900	381540	723528	GW	03					
	1100102-109	206	01	8.00	02					800	382368	723512	GW	03					
	1100102-110	206	01	9.00	02					900	384255	723524	GW	03					
	1100102-111	206	01	8.00	02					800	384238	722407	GW	03					
	1100102-112	206	01	8.00	02					800	381466	721750	GW	03					
	1100102-113	206	01	9.00	02					900	381539	721174	GW	03					
	1100102-114	206	01	8.00	02					800	384635	721266	GW	03					
	1100102-115	206	01	6.00	02					600	382321	720908	GW	03					
	1100102-116	206	01	6.00	02					600	382292	720306	GW	03					
	1100102-117	206	01	6.00	02					600	380735	719890	GW	03					
	1100102-118	206	01	8.00	02					800	380162	718587	GW	03					
	1100102-119	206	01	6.00	02					600	406057	719990	GW	03					
	1100102-120	206	01	8.00	02					800	410973	719225	GW	03					
	1100102-121	206	01	6.00	02	56				600	406799	722595	GW	03					
	1100102-122	206	01	7.00	02	52				700	407546	722186	GW	03					
	1100102-123	206	01	6.00	02					600	380995	718027	GW	03					
	1100102-124	206	01	6.00	02					600	382174	718037	GW	03					
	1100102-125	206	01	6.00	02					600	383057	716648	GW	03					
	1100102-126	206	01	8.00	02					800	382952	715850	GW	03					
	1100102-127	206	01	8.00	02					800	380074	715919	GW	03					
	1100102-128	206	01	6.00	02					600	379826	714053	GW	03					
1100105	1171.38		03	210.54	02	11	1/79	AG	GW	6	COLLIER DEVELOPMENT CORPERATION				61	0.8	15	338	0.50
1100105															15	0.8	15	864	0.50
	1100105-181	190	01		02						357691	771393	GW	04					
	1100105-182	190	01		02						0	0	GW	04					
	1100105-192	190	01		02	185	135			800	365750	783300	GW	04					
	1100105-194	190	01		02	190	130			800	370400	786600	GW	04					
	1100105-195	190	01		02	190	130			800	365750	781400	GW	04					
	1100105-196	190	01		02	190	130			800	368400	780900	GW	04					
1100107				32.58	02	11	8/86	AG	GW	15	BARRON COLLIER				61	0.8	26	160	0.50
	1100107-19	191	01		02	20				800	391904	768663	GW	01					
	1100107-20	191	01		02	24				800	392614	763306	GW	01					
	1100107-21	191	01		02	21				800	393391	761761	GW	01					
	1100107-22	191	01		02	84				600	394255	762027	GW	03					
	1100107-23	191	01		02	17				800	397075	764295	GW	01					
	1100107-24	191	01		02					800	404781	763681	GW	03					
	1100107-25	191	01		02					800	404864	764717	GW	03					
	1100107-26	191	01		02	67				800	403195	765111	GW	03					
	1100107-27	191	01		02					800	403212	765667	GW	03					
	1100107-28	191	01		02					800	402186	765819	GW	03					
	1100107-29	191	01		02	65				800	403067	763371	GW	03					
	1100107-30	191	01		02	47				800	401460	762481	GW	01					
	1100107-31	191	01		02	47				800	402158	761771	GW	01					
	1100107-32	191	01		02	51				600	407450	761272	GW	01					
	1100107-33	191	01		02					600	410096	761974	GW	03					
1100108	196.80		03			11		AG	GW		COLLIER DEVELOPMENT CORPERATION				61	0.8	26	354	0.50
1100108															15	0.8	26	200	0.50
	1100108-129	206	01	9.00	02					900	385179	722336	GW	03					
	1100108-130	206	01	6.00	02	80	70			600	386403	720631	GW	03					
	1100108-131	206	01	6.00	02					600	386428	719427	GW	03					

	1100108-132	206	01	9.00	02	40	30			900	385252	716691	GW	03					
1100119				223	02	11	11/86	AG	GW	12	ALICO FELDA GROVE				13	1.5	15	1800	0.50
	1100119-33	173	01	10.00	02	170	150		02	600	380900	792550	GW	04					
	1100119-34	173	01	10.00	02	40	50		02	600	380500	790850	GW	01					
	1100119-35	173	01	10.00	02	40	50		02	600	378200	790500	GW	01					
	1100119-36	173	01	10.00	02	40	50		02	600	378800	789000	GW	01					
	1100119-37	173	01	10.00	02	50	50		02	600	378800	787650	GW	01					
	1100119-38	173	01	10.00	02	50	50		02	600	378600	787700	GW	01					
	1100119-120	191	01	10.00	02	50	50		02	600	378989	784966	GW	01					
	1100119-121	191	01	10.00	02	50	50		02	600	378759	786484	GW	01					
	1100119-122	191	01	10.00	02	50	50		02	600	381112	787414	GW	01					
	1100119-123	191	01	10.00	02	50	50		02	600	382424	787591	GW	01					
	1100119-124	191	01	6.00	02	50	50		02	600	383301	787164	GW	01					
	1100119-134	172	01	6.00	02	50	50		02	600	375609	791232	GW	01					
1100120	71.84		03	26.44	02	11	12/88	AG	GW	6	BOB PAUL, INC.				13	0.8	15	175	0.85
	1100120-64	190	03	12.00	02	210				500	349431	777537	GW	04					
	1100120-65	190	01	8.00	02	80				250	350454	776467	GW	03					
	1100120-66	190	01	8.00	02	80				250	351121	776453	GW	03					
	1100120-67	190		8.00	02	80					351614	776455	GW	03					
	1100120-68	190	01	8.00	02	80				450	350606	775206	GW	03					
	1100120-69	190	01	8.00	02	80				450	351418	775191	GW	03					
1100128				1415.00	01	11	9/81	AG	GW	25	ALICO				13	1.5	15	3455	0.50
	1100128-204	189	01	8.00	02	32				600	318734	787715	GW	01					
	1100128-205	189	01	9.00	02	30				600	319407	787660	GW	01					
	1100128-206	189	01	9.00	02	44				600	320776	785500	GW	01					
	1100128-207	189	01	6.00	02	28				600	318378	784756	GW	01					
	1100128-208	189	01	9.00	02	41				600	318202	781523	GW	01					
	1100128-209	189	01	6.00	02	45				600	334723	783071	GW	01					
	1100128-210	189	01	6.00	02	45				500	333385	784507	GW	01					
	1100128-211	189	01	6.00	02	55				500	334168	784656	GW	01					
	1100128-212	189	01	6.00	02	55				500	332745	787685	GW	01					
	1100128-213	189	01	6.00	02	30				500	329628	785595	GW	01					
	1100128-214	189	01	6.00	02	90				500	331994	786998	GW	03					
	1100128-128	171	01	8.00	02	190				650	334530	791410	GW	04					
	1100128-129	171	01	8.00	02	190				650	335678	791091	GW	04					
	1100128-130	171	01	6.00	02	60				500	336215	790122	GW	04					
	1100128-131	171	01	6.00	02	150				500	336215	788608	GW	04					
	1100128-132	171	01	10.00	02	196				1100	335974	788155	GW	04					
	1100128-133	171	01	4.00	02	48				350	329939	788177	GW	01					
	1100128-134	171	01	6.00	02	30				500	329495	789057	GW	01					
	1100128-135	171	01	6.00	02	45				500	329382	788205	GW	01					
	1100128-136	171	04	7.00	02						315806	790673	GW						
	1100128-137	171	01	10.00	02	45					319980	791368	GW	01					
	1100128-138	171	01	9.00	02	39					322822	791611	GW	01					
	1100128-139	171	01	9.00	02	38					321103	789453	GW	01					
	1100128-140	171	01	9.00	02	46					322600	789637	GW	01					
	1100128-141	171	01	9.00	02	33					323823	789630	GW	01					
1100140	18.25		03			11	5/79	AG	GW	2	HARRY C. McDONALD				13	0.8	15	84	0.50
	1100140-17	190	01	8.00	02	175				250	352585	781673	GW	04					
	1100140-18	190	01	8.00	02	175				250	352604	780947	GW	04					
1100146				22.60	02	11	7/86	AG	GW	2	HARRY C. McDONALD				13	0.8	15	40	0.50
	1100146-53	190	01	6.00	02	84					354736	784631	GW	03					
	1100146-54	190	01	6.00	02	84					354638	783403	GW	03					

1100147				177.00	02	11	3/82	AG	GW	41	MILES SCOFIELD					13	0.8	26	640	0.85
1100147																15	0.8	26	2520	0.50
	1100147-111	192	01	6.00	02	61					420366	767587	GW	03						
	1100147-112	192	01	6.00	02	84					426290	771393	GW	03						
	1100147-113	192	01	6.00	02						424193	769365	GW	03						
	1100147-114	192	01	6.00	02	59					421664	768572	GW	03						
	1100147-74	191	01	8.00	02	185					413899	778428	GW	03						
	1100147-75	191	01	8.00	02	103					412913	779107	GW	03	WINDMILL					
	1100147-76	191	01	8.00	02	178					412065	777924	GW	03						
	1100147-77	191	01	6.00	02	80					413897	780619	GW	03						
	1100147-78	191	01	8.00	02	103					413420	779889	GW	03						
	1100147-79	191	01	6.00	02	80					415371	771997	GW	03						
	1100147-80	191	01	6.00	02	88					0	0	GW	03						
	1100147-81	191	01	8.00	02	96					0	0	GW	03						
	1100147-82	191	01	8.00	02	96					414483	774514	GW	03						
	1100147-83	191	01	8.00	02	94					413007	774457	GW	03						
	1100147-84	191	01	6.00	02	84					411651	774473	GW	03						
	1100147-85	191	01	6.00	02	87					411127	775567	GW	03						
	1100147-86	191	01	8.00	02	101					414214	776589	GW	03						
	1100147-87	191	01	10.00	02	69					415968	766996	GW	03						
	1100147-88	191	01	8.00	02	95					414362	768926	GW	03						
	1100147-89	191	01	6.00	02	69					414016	771227	GW	03						
	1100147-90	191	01	6.00	02	79					411212	766981	GW	03						
	1100147-91	191	01	8.00	02	102					406788	776884	GW	03						
	1100147-92	191	01	8.00	02	107					407803	778654	GW	03						
	1100147-93	191	01	4.00	02	25					407037	779194	GW	01	WINDMILL					
	1100147-94	191	01	6.00	02	39					401723	778989	GW	01						
	1100147-95	191	01	6.00	02	97					401785	779611	GW	03						
	1100147-96	191	01	6.00	02	110					401050	779414	GW	03						
	1100147-97	191	01	4.00	02	23					400786	779734	GW	01						
	1100147-98	191	01	6.00	02	94					400240	775742	GW	03						
	1100147-99	191	01	6.00	02	84					401826	773772	GW	03						
	1100147-100	191	01	6.00	02	115					402290	774718	GW	03						
	1100147-101	191	01	9.63	02	103					401547	775782	GW	03						
	1100147-102	191	01	9.63	02	103					401288	775819	GW	03						
	1100147-103	191	01	8.00	02	99					410818	772720	GW	03						
	1100147-104	191	01	8.00	02	105					410401	774748	GW	03						
	1100147-105	191	01	8.00	02	58					410674	766621	GW	03						
	1100147-106	191	01	8.00	02	92					409634	769379	GW	03						
	1100147-107	191	01	8.00	02	94					408702	769820	GW	03						
	1100147-108	191	01	8.00	02	99					407139	768688	GW	03						
	1100147-109	191	01	6.00	02	81					405397	769318	GW	03						
	1100147-110	191	01	8.00	02	105					403111	769273	GW	03						
1100172				64.8	02	11	1.80	AG	GW	13	BERRY GROVES					13	0.8	15	350	0.85
	1100172-40	190	03	10.00	02	90	70			200	350411	781729	GW	03	FREEZE PROTECTION ONLY					
	1100172-41	190	03	10.00	02	90	70			200	351022	781758	GW	03	FREEZE PROTECTION ONLY					
	1100172-42	190	03	10.00	02	90	70			200	351568	781858	GW	03	FREEZE PROTECTION ONLY					
	1100172-43	190	03	10.00	02	90	70			200	350817	780763	GW	03	FREEZE PROTECTION ONLY					
	1100172-44	190	03	10.00	02	90	70			200	352062	780797	GW	03	FREEZE PROTECTION ONLY					
	1100172-45	190	03	10.00	02	90	70			200	350276	779440	GW	03	FREEZE PROTECTION ONLY					
	1100172-46	190	03	10.00	02	90	70			200	351425	779412	GW	03	FREEZE PROTECTION ONLY					
	1100172-47	190	03	10.00	02	90	70			200	351846	779447	GW	03	FREEZE PROTECTION ONLY					
	1100172-48	190	03	10.00	02	90	70			200	352279	779443	GW	03	FREEZE PROTECTION ONLY					
	1100172-49	190	01	8.00	02	200				500	349415	780998	GW	04						
	1100172-50	190	01	8.00	02	200				500	351386	781205	GW	04						
	1100172-51	190	01	8.00	02	200				500	349409	779511	GW	04						

1100214	579.00		03	130.00	02	11	12/81	AG	GW	10	CHRIS SAPP				13	0.8	26	240	0.50
	1100214-133	206	01	8.00	02	100					402239	715629	GW	03					
	1100214-134	206	01	8.00	02	100					401712	715680	GW	03					
	1100214-135	206	01	8.00	02	100					401076	716016	GW	03					
	1100214-136	206	01	8.00	02	100					401185	717250	GW	03					
	1100214-137	206	01	8.00	02	100					402061	717485	GW	03					
	1100214-138	206	01	8.00	02	100					404263	717522	GW	03					
	1100214-139	206	01	8.00	02	100					404629	716994	GW	03					
	1100214-140	206	01	8.00	02	100					406097	717903	GW	03					
	1100214-141	206	01	8.00	02	100					406182	718700	GW	03					
	1100214-142	206	01	8.00	02	100					405254	718677	GW	03					
1100217				52.40	02	11	1/88	AG	GW	12	C. M. HEARTLAND				61	0.8	26	280	0.50
	1100217-1	223	01	8.00	02	60	20		01	1000	465000	694000	GW	01					
	1100217-2	223	01	8.00	02	60	20		01	1000	465000	694000	GW	01					
	1100217-3	223	01	8.00	02	60	20		01	1000	466000	681000	GW	01					
	1100217-4	223	01	8.00	02	60	20		01	1000	466000	681000	GW	01					
	1100217-5	223	01	8.00	02	60	20		01	1000	462000	681000	GW	01					
	1100217-6	223	01	8.00	02	60	20		01	1000	462000	681000	GW	01					
	1100217-7	223	01	8.00	02	60	20		01	1000	464000	681000	GW	01					
	1100217-8	223	01	8.00	02	60	20		01	1000	464000	681000	GW	01					
	1100217-9	223	01	8.00	02	60	20		01	1000	461000	678000	GW	01					
	1100217-10	223	01	8.00	02	60	20		01	1000	461000	687000	GW	01					
	1100217-11	223	01	8.00	02	60	20		01	1000	463000	683000	GW	01					
	1100217-12	223	01	8.00	02	60	20		01	1000	463000	683000	GW	01					
1100223				302.00	02	11	3/82	AG	GW	7	THE COLLIER COMPANY				61	0.4	26	490	0.50
	1100223-3	221	01	6.00	02	70				1000	385000	687000	GW	03					
	1100223-4	221	01	6.00	02	70				1000	385000	687000	GW	03					
	1100223-5	221	01	6.00	02	70				1000	385000	687000	GW	03					
	1100223-6	221	01	6.00	02	70				1000	385000	687000	GW	03					
	1100223-7	221	01	6.00	02	70				1000	385000	687000	GW	03					
	1100223-8	221	01	6.00	02	70				1000	385000	687000	GW	03					
	1100223-9	221	01	8.00	02	70				1000	385000	687000	GW	03					
1100233	2304.36		03	848.13	02	11	9/87	AG	GW	35	BARRON COLLIER SILVER **STRAND DIVISION**				13	0.8	15	5010	0.85
	1100233-260		01	10.00	02	190	130			800	364680	786300	GW	04					
	1100233-261		01	10.00	02	190	130			800	365990	786300	GW	04					
	1100233-262		01	10.00	02	185	130			800	365440	783600	GW	04					
	1100233-263		01	10.00	02	190	130			800	370710	786530	GW	04					
	1100233-264		01	10.00	02	185	130			800	369200	783600	GW	04					
	1100233-265		01	10.00	02	190	130			800	366500	780640	GW	04					
	1100233-266		01	10.00	02	190	130			800	367890	780640	GW	04					
	1100233-267		01	10.00	02	190	130			800	368300	778660	GW	04					
	1100233-268		01	10.00	02	190	130			800	368330	777350	GW	04					
	1100233-269		01	10.00	02	200	140			800	364610	780670	GW	04					
	1100233-270		02	10.00	02	200	140			800	363090	780670	GW	04					
	1100233-271		02	12.00	02	200	140			800	361480	779360	GW	04					
	1100233-272		02	12.00	02	200	140			800	359290	779340	GW	04					
	1100233-273		02	12.00	02	200	140			800	359310	776600	GW	04					
	1100233-274		02	12.00	02	200	140			800	361630	775330	GW	04					
	1100233-275		01	10.00	02	200	140			800	364360	775480	GW	04					
	1100233-276		01	10.00	02	200	140			800	366660	775480	GW	04					
	1100233-277		01	10.00	02	200	140			800	367010	772860	GW	04					
	1100233-278		01	12.00	02	200	140			800	364690	772810	GW	04					
	1100233-279		02	12.00	02	200	140			800	361630	772740	GW	04					

	1100233-280		02	12.00	02	200	140			800		359650	772700	GW	04					
	1100233-281		02	12.00	02	200	140			800		359060	783800	GW	04					
	1100233-282		02	12.00	02	200	140			800		361570	783810	GW	04					
	1100233-283		02	12.00	02	200	140			800		358450	786500	GW	04					
	1100233-284		02	12.00	02	200	140			800		360120	789000	GW	04					
	1100233-285		02	12.00	02	200	140			800		362500	789020	GW	04					
	1100233-286		02	12.00	02	200	140			800		364900	789050	GW	04					
	1100233-287		02	12.00	02	200	140			800		367150	789660	GW	04					
	1100233-288		02	12.00	02	200	140			800		358600	791800	GW	04					
	1100233-289		02	12.00	02	200	140			800		361200	791820	GW	04					
	1100233-290		02	12.00	02	200	140			800		364140	791840	GW	04					
	1100233-291		02	12.00	02	200	140			800		366860	791900	GW	04					
	1100233-292		02	12.00	02	200	140			800		369690	791920	GW	04					
	1100233-293		02	12.00	02	200	140			800		372630	791880	GW	04					
	1100233-294		02	12.00	02	200	140			800		369140	789100	GW	04					
1100250				5.3	02	11	9/83	AG	GW	1		DAVID C. BROWN				13	0.8	15	50	0.85
	1100250-134	190	01	8.00	02	90				600		353150	782200	GW	03					
1100262				837.13	02	11	1/87	AG	GW	50		TURNER CORPORATION/GATOR SLOUGH				13	0.8	15	4945	0.85
	1100262-99	171	01	10.00	02	262	120		02	583	Y	334350	807240	GW	04					
	1100262-100	171	01	8.00	02	255	161		02	431	Y	335715	807230	GW	04					
	1100262-101	171	01	8.00	02	245	136		02	442	Y	335690	805650	GW	04					
	1100262-102	171	01	10.00	02	260	120		02	580	Y	333460	805760	GW	04					
	1100262-103	171	01	8.00	02	245	128		02	448	Y	335660	804535	GW	04					
	1100262-104	171	01	8.00	02	245	140		02	435	Y	335635	803250	GW	04					
	1100262-105	171	01	8.00	02	240	141		02	442	Y	336880	803335	GW	04					
	1100262-106	171	01	10.00	02	235	130		02	576	Y	332330	803115	GW	04					
	1100262-107	171	01	10.00	02	255	136		02	557	Y	335630	801885	GW	04					
	1100262-108	171	01	10.00	02	230	120		02	477	Y	332340	801785	GW	04					
	1100262-109	171	01	10.00	02	250	140		02	500	Y	335640	800580	GW	04					
	1100262-110	171	01	10.00	02	247	130		02	441	Y	332350	800455	GW	04					
	1100262-111	171	01	10.00	02	267	140		02	448	Y	335650	799440	GW	04					
	1100262-112	171	01	10.00	02	250	140		02	510	Y	332365	799140	GW	04					
	1100262-113	171	01	10.00	02	260	146		02	511	Y	335665	797890	GW	04					
	1100262-114	171	01	10.00	02	203	115		02	434	Y	327240	801660	GW	04					
	1100262-115	171	01	10.00	02	206	115		02	459	Y	327400	799120	GW	04					
	1100262-116	171	01	10.00	02	227	130		02	477	Y	332380	797765	GW	04					
	1100262-117	171	01	10.00	02	260	128		02	450	Y	335680	796475	GW	04					
	1100262-118	171	01	10.00	02	220	135		02	324	Y	332390	796375	GW	04					
	1100262-119	171	01	10.00	02	228	136		02	445	Y	335690	795230	GW	04					
	1100262-120	171	01	10.00	02	224	135		02	670	Y	334165	793885	GW	04					
	1100262-121	171	01	10.00	02	229	138		02	613	Y	335020	792550	GW	04					
	1100262-105	172	02	10.00	02	260	120		02	337	Y	346526	791383	GW	04					
	1100262-106	172	02	10.00	02	260	120		02	417	Y	346506	790074	GW	04					
	1100262-107	172	02	10.00	02	260	120		02	461	Y	343656	789086	GW	04					
	1100262-108	172	02	10.00	02	260	120		02	461	Y	346566	788958	GW	04					
	1100262-109	172	02	10.00	02	260	120		02	454	Y	343729	787845	GW	04					
	1100262-110	172	02	10.00	02	260	120		02	454	Y	346665	787779	GW	04					
	1100262-111	172	02	10.00	02	260	120		02	375	Y	338083	791381	GW	04					
	1100262-112	172	02	10.00	02	260	120		02	375	Y	340875	791395	GW	04					
	1100262-113	172	02	10.00	02	260	120		02	570	Y	340800	790103	GW	04					
	1100262-114	172	02	10.00	02	260	120		02	485	Y	338118	789622	GW	04					
	1100262-115	172	02	10.00	02	260	120		02	485	Y	340855	788800	GW	04					
	1100262-116	172	02	10.00	02	260	120		02	617	Y	340831	787432	GW	04					
	1100262-117	172	02	10.00	02	260	120		02	634	Y	337822	801943	GW	04					
	1100262-118	172	02	10.00	02	260	120		02	400	Y	340784	801844	GW	04					
	1100262-119	172	02	10.00	02	260	120		02	424	Y	340789	800420	GW	04					

	1100262-120	172	02	10.00	02	260	120		02	500	Y	337915	799196	GW	04					
	1100262-121	172	02	10.00	02	260	120		02	493	Y	340813	798891	GW	04					
	1100262-122	172	02	10.00	02	260	120		02	345	Y	340833	797712	GW	04					
	1100262-123	172	02	10.00	02	260	120		02	745	Y	337926	796846	GW	04					
	1100262-124	172	02	10.00	02	260	120		02	463	Y	341771	796324	GW	04					
	1100262-125	172	02	10.00	02	260	120		02	465	Y	341859	795014	GW	04					
	1100262-126	172	02	10.00	02	260	120		02	405	Y	337933	794070	GW	04					
	1100262-127	172	02	10.00	02	260	120		02	405	Y	338011	792717	GW	04					
	1100262-128	172	02	10.00	02	260	120		02	645	Y	341660	793542	GW	04					
	1100262-129	172	02	10.00	02	260	120		02	647	Y	345252	796690	GW	04					
	1100262-130	172	02	10.00	02	260	120		02	470	Y	346457	794239	GW	04					
	1100262-246	190	01	10.00	02	275	172		02	800	Y	347113	785500	GW	04					
1100318				49.29	02	11	3/85	AG	GW	7		THOMAS & RHONDA BAKER				61	0.8	26	290	0.50
	1100318-		02	8.00	02	85	15		02	200	Y	454466	699520	GW	03					
	1100318-		02	8.00	02	85	15		02	200	Y	455294	699348	GW	03					
	1100318-		02	8.00	02	85	15		02	200	Y	465070	699120	GW	03					
	1100318-		02	8.00	02	85	15		02	200	Y	455142	698224	GW	03					
	1100318-		02	8.00	02	85	15		02	200	Y	455330	696792	GW	03					
	1100318-		02	8.00	02	85	15		02	200	Y	455202	695812	GW	03					
	1100318-		02	8.00	02	85	15		02	200	Y	455346	694922	GW	03					
1100320	23.00		03	8.45	02	11	7/85	AG	GW	5		COLLIER ENTERPRISES (NURSERY)				13	0.8	26	47	0.70
	1100320-147	206	01	12.00	02	90			02	1400		384525	736423	GW	03					
	1100320-148	206	01	12.00	02	90			02	1400		384471	735561	GW	03					
	1100320-149	206	01	12.00	02	90			02	1400		385282	736451	GW	03					
	1100320-150	206	01	12.00	02	90			02	1400		384487	736015	GW	03					
	1100320-151	206	02	12.00	02	80			02	1355		383048	737221	GW	03					
1100321				533.27	02	11	7/85	AG	GW	28		COLLIER ENTERPRISES				61	1.5	26	2698	0.50
	1100321-154	206	01	6.00	02							390320	739833	GW	01					
	1100321-155	206	01	6.00	02							408301	738672	GW	01					
	1100321-156	206	01	8.00	02							407642	737839	GW	01					
	1100321-157	206	01	8.00	02							408935	737413	GW	01					
	1100321-158	206	01	6.00	02							408602	736773	GW	01					
	1100321-159	206	01	6.00	02							404943	736238	GW	01					
	1100321-160	206	01	8.00	02							401236	736289	GW	01					
	1100321-161	206	01	6.00	02							400816	738106	GW	01					
	1100321-162	206	01	8.00	02							399016	738024	GW	01					
	1100321-163	206	01	6.00	02							395743	737340	GW	01					
	1100321-164	206	01	8.00	02							395286	737248	GW	01					
	1100321-165	206	01	6.00	02							380367	738448	GW	01					
	1100321-166	206	01	8.00	02							383614	738787	GW	01					
	1100321-167	206	01	6.00	02							384330	739336	GW	01					
	1100321-168	206	01	8.00	02							384839	738537	GW	01					
	1100321-169	206	01	6.00	02							379525	734143	GW	01					
	1100321-170	206	01	8.00	02							383051	734142	GW	01					
	1100321-171	206	01	6.00	02							384328	734028	GW	01					
	1100321-172	206	01	8.00	02							384339	729297	GW	01					
	1100321-173	206	01	6.00	02							385376	729770	GW	01					
	1100321-174	206	01	8.00	02							385899	730301	GW	01					
	1100321-175	206	01	6.00	02							390029	729503	GW	01					
	1100321-67	191	01	8.00	02							386128	747440	GW	01					
	1100321-68	191	01	8.00	02							385866	746764	GW	01					
	1100321-69	191	01	8.00	02							384727	744953	GW	01					
	1100321-70	191	01	8.00	02							385244	744927	GW	01					
	1100321-71	191	01	8.00	02							387086	747674	GW	01					
	1100321-72	191	01	10.00	02							388020	743264	GW	01					

1100354				59.76	02	11	6/86	AG	GW	4			JAMES E. WILLIAMS				13	0.8	26	353	0.85
	1100354-143	206	01	8.00	02	60	40			1000			410387	718607	GW	03					
	1100354-144	206	01	8.00	02	60	40			1000			408126	718457	GW	03					
	1100354-145	206	01	8.00	02	60	40			1000			407687	717040	GW	03					
	1100354-146	206	01	8.00	02	60	40			1000			409732	717528	GW	03					
1100376				234.9	02	11	1/87	AG	GW	22			BARRON COLLIER COMPANY				15	0.4	26	909	0.50
	1100376-195	206	01	9.00	02	40	45		01	900	N		386280	715050	GW	01					
	1100376-196	206	01	6.00	02	80	30		02	600	N		386280	714350	GW	03					
	1100376-197	206	03	8.00	02	51	70		01	800	N		383590	713300	GW	01					
	1100376-198	206	03	8.00	02				01	800	N		383580	712740	GW	01					
	1100376-199	206	03	9.00	02	36	32		01	900	N		383270	708400	GW	01					
	1100376-200	206	03	6.00	02	33	30		01	600	N		382800	706800	GW	01					
	1100376-201	206	02	10.00	02	80	45		02	1000	Y		384200	714400	GW	03					
	1100376-202	206	02	10.00	02	80	45		02	1000	Y		385500	714410	GW	03					
	1100376-203	206	02	10.00	02	80	45		02	1000	Y		382250	713180	GW	03					
	1100376-204	206	02	10.00	02	80	45		02	1000	Y		384600	713200	GW	03					
	1100376-205	206	02	10.00	02	80	45		02	1000	Y		380300	711710	GW	03					
	1100376-206	206	02	10.00	02	80	45		02	1000	Y		381460	712060	GW	03					
	1100376-207	206	02	10.00	02	80	45		02	1000	Y		380240	709450	GW	03					
	1100376-208	206	02	10.00	02	80	45		02	1000	Y		383020	710630	GW	03					
	1100376-209	206	02	10.00	02	80	45		02	1000	Y		383240	710230	GW	03					
	1100376-210	206	02	10.00	02	80	45		02	1000	Y		384530	710200	GW	03					
	1100376-211	206	02	10.00	02	80	45		02	1000	Y		380310	707840	GW	03					
	1100376-212	206	02	10.00	02	80	45		02	1000	Y		381200	707840	GW	03					
	1100376-213	206	02	10.00	02	80	45		02	1000	Y		384390	707860	GW	03					
	1100376-214	206	02	10.00	02	80	45		02	1000	Y		385540	707890	GW	03					
	1100376-215	206	02	10.00	02	80	45		02	1000	Y		384490	706890	GW	03					
	1100376-216	206	02	10.00	02	80	45		02	1000	Y		383380	705120	GW	03					
1100386				195.89	02	11	3/87	AG	GW	10			JAMES E. WILLIAMS, JR.				60	0.8	15	900	0.50
	1100386-234	190	01	10.00	02	28	27		02	800			354100	755300	GW	01					
	1100386-235	190	01	10.00	02	27	27		02	800			350300	756200	GW	01					
	1100386-236	190	01	10.00	02	32	30		02	800			351100	753800	GW	01					
	1100386-237	190	01	8.00	02	30	30		02	600			349800	753500	GW	01					
	1100386-238	190	01	13.00	02	27	25		02	1000			352400	750800	GW	01					
	1100386-239	190	01	13.00	02	30	27		02	1000			347700	752700	GW	01					
	1100386-240	190	01	13.00	02	25	25		02	1000			346200	750900	GW	01					
	1100386-241	190	01	10.00	02	28	28		02	800			350500	755500	GW	01					
	1100386-242	190	01	6.00	02	35	35		02	600			353000	755600	GW	01					
	1100386-243	190	01	13.00	02	30	30		02	1000			348400	754800	GW	01					
	1100386-244	190	01	6.00	02	35	35		02	500			350400	752800	GW	01					
	1100386-245	190	01	6.00	02	35	35		02	500			345200	750400	GW	01					
1100440	197.78		03	72.79	02	11	3/88	AG	GW	3			REX PROPERTIES - WRIGHT GROVES				13	1.5	16	430	0.85
	1100440-256	190	02	12.00	02	100	70			1100			342081	770281	GW	01					
	1100440-257	190	02	12.00	02	100	70			1100			347451	768695	GW	01					
	1100440-258	190	02	12.00	02	100	70			1100			349563	786618	GW	01					
2200002	2106.56		03	349.34	02	22	2/77	AG	BOTH	3		1	THE GRAHAM COMPANY				20	0.8	14	2136	0.50
	2200002-5	137	03	6.00	02	70				800			443803	920651	GW	03					
	2200002-6	137	03	6.00	02	70				800			443775	919399	GW	03					
	2200002-7	137	03	6.00	02	70				800			443753	918064	GW	03					
	2200002-SW1	137	01							16000					SW						
2200039	9.45		03			22	7/77	AG	GW	1			PAUL O'BANNON				20	0.8	15	30	0.75
	2200039-4	136	01	6.00	02	32				500			387158	886216	GW	01					

2200047	537.62		03			22	1/88	AG	GW	4	LYKES BROTHERS, INC.				20	0.8	15	640	0.50
	2200047-23	135	01	8.00	02	700				450	368479	904786	GW	08					
	2200047-24	135	01	6.00	02	700				300	369513	906103	GW	08					
	2200047-25	135	01	10.00	02	700				700	371457	902662	GW	08					
	2200047-26	135	01	10.00	02	700				800	375189	901889	GW	08					
2200065	149.37		03	27.38	02	22	8/87	AG	GW	2	FRIERSON FARMS				01	3.6	14	181	0.50
	2200065-7	138	01	8.00	02	150				800	498572	900569	GW	03					
	2200065-8	138	01	8.00	02	150				800	498587	898634	GW	03					
2200066	377.00		03	71.4	02	22	5/82	AG	GW	2	FRIERSON FARMS				01	3.6	14	487	0.50
	2200066-9	138	01	8.00	02	150				800	494316	893639	GW	03					
	2200066-10	138	01	8.00	02	150				800	494327	892703	GW	03					
2200069	18.4		03	0.22	02	22	7/89	AG	GW	1	ROWLAND WALKER				13	0.8	15	40	0.85
	2200069-11	134	01	6.00	02	150				150	367519	905696	GW	04					
2200070	759.71		03	8.74	02	22	8/88	AG	GW	34	SIX L'S				61	0.8	15	370	0.50
2200070															13	0.8	15	1155	0.85
	2200070-12	134	01	12.00	02	750	100		02	750	326100	910900	GW	08					
	2200070-13	134	01	10.00	02	120	84		01	700	326100	911100	GW	04					
	2200070-14	134	01	10.00	02	90	84		01	700	325000	911300	GW	04					
	2200070-15	134	01	12.00	02	750	100		02	750	324000	911300	GW	08					
	2200070-16	134	01	8.00	02	110	100		01	700	322600	911300	GW	04					
	2200070-17	134	01	8.00	02	110	100		01	700	321600	909000	GW	04					
	2200070-18	134	01	9.63	02	165	84				318400	906100	GW	04					
	2200070-19	134	01	9.63	02	165	84		01	700	317500	906100	GW	04					
	2200070-20	134	01	9.63	02	200	84				317500	904300	GW	04					
	2200070-21	134	01	9.63	02	50	40		01	700	316800	903500	GW	03					
	2200070-22	134	01	10.00	02	220	84		01	700	318400	903250	GW	04					
	2200070-23	134	01	9.63	02	200	110		02	750	323000	906250	GW	04					
	2200070-24	134	01	9.63	02	145	100		02	750	324500	906250	GW	04					
	2200070-25	134	01	9.63	02	165	85				324800	904600	GW	04					
	2200070-26	134	01	9.63	02	150	60		02	300	326000	903700	GW	04					
	2200070-27	134	01	10.00	02	135	105		02	750	325200	901000	GW	04					
	2200070-28	134	01	10.00	02	165	84		01	700	326300	901000	GW	04					
	2200070-29	134	01	10.00	02	155	84		01	700	326300	899600	GW	04					
	2200070-30	134	01	9.63	02	150	105		02	750	324100	897400	GW	04					
	2200070-31	134	01	9.63	02	150	84		02	750	326350	896000	GW	04					
	2200070-32	134	01	9.63	02	165	80				329000	903650	GW	04					
	2200070-33	134	01	9.63	02	180	74				330500	903650	GW	04					
	2200070-34	134	01	9.63	02	165	80				331650	903650	GW	04					
	2200070-35	134	01	9.63	02	50	40		01	700	316300	902900	GW	03					
	2200070-36	134	01	9.63	02	50	40		02	700	316300	902200	GW	03					
	2200070-37	134	01	9.63	02	50	40		02	700	316300	901500	GW	03					
	2200070-38	134	01	2.00	02	145	80				371060	903597	GW	04					
	2200070-39	134	01	2.00	02	145	80				0	0	GW	04					
	2200070-40	134	01	2.00	02	145	80				371178	903675	GW	04					
	2200070-41	134	01	2.00	02	145	80				371641	903727	GW	04					
	2200070-66	134	02	10.00	02	50	40		02	500	363086	906616	GW	03					
	2200070-67	134	02	10.00	02	50	40		02	500	364287	904054	GW	03					
	2200070-68	134	02	10.00	02	50	40		02	500	366341	902226	GW	03					
	2200070-69	134	02	10.00	02	50	40		02	500	368803	902409	GW	03					
2200068	9.20		03	.113	02	22	6/83	AG	GW	1	C.M. & S.P. HANSEN				13	0.8	15	20	0.85
	2200068-10	134	01	6.00	02	120	100		01	107	336000	906850	GW	04					

2200071	7.82		03			22	5/87	AG	GW	2		CHARLES W. COFFMAN				13	0.8	15	17	0.85
	2200071-42	134	03	6.00	02	180	140					375727	897928	GW	04					
	2200071-43	134	01	6.00	02	55	30		01	100		375146	898021	GW	01					
2200072	2.81		03			22	4/87	AG	GW	3		DENNIS G. SMALL				13	0.8	15	6	0.85
	2200072-44	134	01	2.00	02	130			01	60		361290	886255	GW	04					
	2200072-45	134	01	4.00	02	130			02	125		361291	886409	GW	04					
	2200072-46	134	01	6.00	02	130			02	125		361297	886127	GW	04					
2200078	23.00		03			22	7/84	AG	GW	2		PERKINS GROVE				13	0.4	15	62	0.85
	2200078-27	135	01	10.00	02	300	155		02	700		338992	909980	GW	04					
	2200078-28	135	01	6.00	02	138	80		02	500		339009	910662	GW	05					
2200079	27.6		03			22	4/88	AG	GW	3		GERALD W. MURRAY				13	0.8	15	60	0.85
	2200079-47	134	01	10.00	02	180	30		02	450		325200	893700	GW	04					
	2200079-48	134	02	10.00	02	180	30					326000	893700	GW	04					
	2200079-49	134	02	6.00	02	60	30					326200	893700	GW	01					
2200101	23.00		03			22	7/87	AG	GW	3		WALTER FERGUSON				13	0.8	15	148	0.85
	2200101-55	134	02	3.00	02	123	80					374062	895525	GW	04					
	2200101-56	134	02	9.00	02	120	100		02	500		373136	894729	GW	04					
	2200101-63	134	01	12.00	02	135	99		02	600	Y	373433	891827	GW	04					
2200111	32.84		03			22	7/87	AG	BOTH	3	1	JACK A. FREEMAN - BEE BRANCH GROVES				13	0.8	15	71	0.85
	2200111-35	135	01	10.00	02	90	46		02	150		345187	914085	GW	04					
	2200111-36	135	03	6.00	02	120	120		02	150		346085	914119	GW	04					
	2200111-37	135	02	8.00	02	75	45		02	150		345986	912885	GW	04					
	2200111-SW1	135	01							1300		345900	913650	SW						
2200115	13.23		03			22	5/87	AG	BOTH	1	2	FRANK M. WOODS - GLADES TREE FARM				70	0.8	15	14	0.50
	2200115-50	134	01	6.00	02	126	122		02	200		333900	899200	GW	04					
	2200115-SW1	134	01							40		333000	899300	SW						
	2200115-SW2	134	01							40		333000	899300	SW						
2200118	125.11		03			22	10/87	AG	BOTH	6		FRANK C. SHAFER - S BAR W RANCH				13	0.8	15	272	0.85
	2200118-51	134	02	6.00	02	50	20		02	265		368380	898826	GW	01					
	2200118-52	134	02	6.00	02	50	20		02	265		368428	897979	GW	01					
	2200118-53	134	02	6.00	02	50	20		02	265		368443	897014	GW	01					
	2200118-54	134	02	6.00	02	50	20		02	265		370097	897021	GW	01					
	2200118-64	134	01	6.00	02	150	100		02	200		369645	897596	GW	04					
	2200118-65	134	01	6.00	02	150	100		02	200		371859	896776	GW	04					
	2200118-SW3	134	02							300		328478	898201	SW						
	2200118-SW4	134	02							300		328476	897797	SW						
	2200118-SW5	134	02							300		328475	897494	SW						
2200120	12.28		03			22	5/87	AG	GW	1		JOHN R. PAUL, JR., TRUSTEE				13	0.8	15	27	0.85
	2200120-30	135	02	6.00	02	50			02	130		338837	900496	GW	01					
2200122	12.19		03			22	5/87	AG	GW	1		JOHN R. PAUL, JR., TRUSTEE				13	0.8	15	27	0.85
	2200122-31	135	02	6.00	02	50			02	130		337456	899181	GW	01					
2200126	147.00		03			22	5/87	AG	GW	6		JEFFERY B. FREEMAN				13	0.8	15	300	0.85
	2200126-40	135	02	6.00	02	100	65			200		337815	901692	GW	04					
	2200126-41	135	02	6.00	02	100	65			200		337707	903698	GW	04					
	2200126-78	134	02	6.00	02	100	65			200		375796	905791	GW	04					
	2200126-79	134	02	6.00	02	100	65			200		377608	905874	GW	04					
	2200126-80	134	02	6.00	02	100	65			200		375534	904357	GW	04					
	2200126-81	134	02	6.00	02	100	65			200		377569	904364	GW	04					

2200134	41.40		03			22	12-87	AG	GW	1		AUSTIN - MURRAY CITRUS GROVE				13	0.8	15	90	0.85
	2200134-38	135	01	10.00		185	100		02	650		338338	897690	GW	04					
2200138	13.80		03			22	0	AG	GW	1		JOSEPH F. PHILLIPS				13	0.8	15	30	0.85
	2200138-39	135	02	6.00	02	150	100		02	300		338615	892556	GW	04					
2200144	91.99		03			22	4/88	AG	BOTH	8	1	DAVID LEE				13	0.8	15	200	0.85
	2200144-70	134	02	8.00	02	50	15			300		364555	895695	GW	01					
	2200144-71	134	02	8.00	02	50	15			300		365786	895716	GW	01					
	2200144-72	134	02	8.00	02	50	15			300		366401	894468	GW	01					
	2200144-73	134	02	8.00	02	50	15			300		365323	893560	GW	01					
	2200144-74	134	02	8.00	02	200				300		362770	894083	GW	04					
	2200144-75	134	02	8.00	02	200				300		363320	895352	GW	04					
	2200144-76	134	02	8.00	02	200				300		365641	895299	GW	04					
	2200144-77	134	01	10.00	02	180	100			300		364124	894852	GW	04					
	2200144-SW5	134	02							500				SW						
	2200144-SW6	134	02							500				SW						
3600016	69.00		03			36	7/77	AG	GW	10		T. H. BAKER				20	0.8	15	213	0.50
	3600016-61	134	01	4.00	02	20						355671	880035	GW	01					
	3600016-62	134	01	4.00	02	20						347021	878703	GW	01					
	3600016-31	153	01	4.00	02	20						305910	877692	GW	01					
	3600016-32	153	01	4.00	02	700						306001	877458	GW	08					
	3600016-33	153	01	4.00	02	20						305987	876262	GW	01					
	3600016-34	153	01	0.75	02	20						306006	875238	GW	01					
	3600016-35	153	01	2.00	02	20						304774	877847	GW	01					
	3600016-36	153	01	2.00	02	10						304928	877488	GW	01					
	3600016-37	153	01	1.50	02	20						304778	877080	GW	01					
	3600016-38	153	01	2.00	02	20						304789	876303	GW	01					
3600049	81.00		03	31.4	02	36	4/82	AG	GW	1		LEHIGH ACRES DEVELOPMENT, INC.				20	0.8	2	120	0.50
	3600049-2	170	01	6.00	02	80				1000		294597	812765	GW	04					
3600077	156.00		03	64.8	02	36	0	AG	GW	3		TONY ROSBOUGH				13	0.8	2	200	0.50
	3600077-	189	01	6.00	02					500		304050	764760	GW	03					
	3600077-	189	01	6.00	02					500		302800	764700	GW	03					
	3600077-	189	01	8.00	02					500		303100	762200	GW	03					
3600005	368.27		03			36	12/87	AG	BOTH	2		YODER BROTHERS				15	0.8	15	126	0.85
	3600005-66	152	01	6.00	02	120				75		293842	865724	GW	04					
	3600005-37	152	01	6.00	02	120				75		264470	859569	GW	04					
	3600005-SW	152	01											SW		**GRAVITY FED FROM CALOOSAHATCHEE RIVER**				
3600075	6.29		03			36	11/78	AG	GW	4		VOSS GROVES				13	0.8	15	17	0.50
	3600075-27	153	01	2.00	02	40				50		303564	861642	GW	01					
	3600075-28	153	01	2.00	02	40				50		303659	861431	GW	01					
	3600075-29	153	01	2.00	02	90				50		303483	861073	GW	04					
	3600075-30	153	01	2.00	02	90				50		303512	860829	GW	04					
3600076	18.47		03			36	12-78	AG	GW	2		CHARLES CONLEY				60	0.8	2	85	0.50
	3600076-6	189	01	10.00	02	70	60			2200		298669	763822	GW	03					
	3600076-7	189	01	4.00	02	28	20			120		298902	763801	GW	01					
3600090	13.03		03			36	2/79	AG	GW	2		RALPH G. BEARDSLEE				61	0.8	2	20	0.50
3600090																60	0.8	2	30	0.50
	3600090-1	189	01	8.00	02	23	20			1500		299087	767706	GW	01					
	3600090-2	189	01	8.00	02	23	20			1500		299530	767778	GW	01					

3600094	13.03		03		02	36	2/86	AG	GW	5	PENINSULAR GROVES, INC.				12	0.8	2	60	0.85
	3600094-8	189	01	10.00	02	130	40		02	1200	296000	759927	GW	03					
	3600094-9	189	01	10.00	02	130	40		02	1200	296321	759912	GW	03					
	3600094-10	189	01	8.00	02	190	160		02	500	295665	759971	GW	04					
	3600094-48	188	01	13.00	02	130	25		02	1200	295083	760008	GW	03					
	3600094-49	188	01	10.00	02	130	40		02	1200	295480	759999	GW	03					
3600095	10.85		03			36	2/79	AG	GW	5	PENINSULAR GROVES, INC.				13	0.8	2	32	0.85
3600095															12	0.8	2	18	0.85
	3600095-50	188	01	13.00	02	100	40		02	1200	286555	770165	GW	03					
	3600095-51	188	01	13.00	02	100	40		02	1200	286580	770782	GW	03					
	3600095-52	188	01	13.00	02	100	40		02	1200	286615	771448	GW	03					
	3600095-53	188	01	13.00	02	100	40		02	1200	286692	772111	GW	03					
	3600095-54	188	01	8.00	02	200	116		02	500	286946	771419	GW	04					
3600113	8.70		03			36	12/87	AG	GW	2	CHARLES FLINT				20	0.8	2	40	0.50
	3600113-75	171	01	6.00	02	80				500	298478	817427	GW	04					
	3600113-76	171	01	2.00	02	200				1	298684	817949	GW	05					
3600119	141.08		03			36	3.79	AG	GW	3	CHARLES FLINT				20	0.8	2	325	0.50
	3600119-72	171	01		02					500	304053	795847	GW	01					
	3600119-73	171	01	6.00	02					500	302220	797393	GW	01					
	3600119-74	171	01	6.00	02					500	300906	797350	GW	01					
3600129	565.00		03	270.00	02	36	7/82	AG	GW	57	SBN GROVE MAINTENANCE				12	0.8	2	1265	0.50
	3600129-128	189	01	9.00	02	47	26				315572	769287	GW	01					
	3600129-129	189	01	9.00	02	42	29				315119	769311	GW	01					
	3600129-130	189	01	9.00	02	37	32				314686	769291	GW	01					
	3600129-131	189	01	9.00	02	45					314191	769252	GW	01					
	3600129-132	189	01	9.00	02	34					313762	769204	GW	01					
	3600129-133	189	01	9.00	02	176					313607	768773	GW	03					
	3600129-134	189	01	9.00	02	174					313595	769603	GW	03					
	3600129-135	189	01	9.00	02	37					313365	769132	GW	01					
	3600129-136	189	01	9.00	02	37					312742	769115	GW	01					
	3600129-137	189	01	9.00	02	42					312318	769132	GW	01					
	3600129-138	189	01	9.00	02	40	33				311836	769093	GW	01					
	3600129-139	189	01	9.00	02	65	32				311105	769029	GW	01					
	3600129-140	189	01	12.00	02	41	32				315444	767826	GW	01					
	3600129-141	189	01	12.00	02	31	27				314968	767817	GW	01					
	3600129-142	189	01	12.00	02	30	26				314446	767794	GW	01					
	3600129-143	189	01	12.00	02	35	25				313977	767771	GW	01					
	3600129-144	189	01	12.00	02	35	25				313394	767646	GW	01					
	3600129-145	189	01	10.00	02	246	78				312954	767627	GW	04					
	3600129-146	189	01	12.00	02	35	25				312531	767575	GW	01					
	3600129-147	189	01	12.00	02	35	25				312132	767484	GW	01					
	3600129-148	189	01	9.00	02	155	87				314820	766874	GW	03					
	3600129-149	189	01	12.00	02	35	25				311751	767002	GW	01					
	3600129-150	189	01	12.00	02	44	36				315350	765447	GW	01					
	3600129-151	189	01	12.00	02	195	72				315002	765596	GW	04					
	3600129-152	189	01	12.00	02	36	31				314591	765596	GW	01					
	3600129-153	189	01	12.00	02	35	25				314191	765623	GW	01					
	3600129-154	189	01	12.00	02	35	25				313640	765643	GW	01					
	3600129-155	189	01	10.00	02	246	98				312977	765625	GW	04					
	3600129-156	189	01	12.00	02	35	25				312507	765727	GW	01					
	3600129-157	189	01		02						312064	765692	GW						
	3600129-158	189	01	12.00	02	50	37				310179	770733	GW	01					
	3600129-159	189	01	12.00	02	50	39				309549	770729	GW	01					

3600129-160	189	01	12.00	02	60	39	308975	770637	GW	01
3600129-161	189	01	12.00	02	60	39	308552	770601	GW	01
3600129-162	189	01	9.00	02	430	227	308070	771022	GW	05
3600129-163	189	01	8.00	02	450	212	308030	770628	GW	05
3600129-164	189	01	8.00	02	65	50	308058	770290	GW	01
3600129-165	189	01	12.00	02	60	39	307035	770739	GW	01
3600129-166	189	01	12.00	02	47	35	306623	770491	GW	01
3600129-167	189	01	12.00	02	51	36	306098	770451	GW	01
3600129-168	189	01	12.00	02	43	34	305285	770354	GW	01
3600129-169	189	01	12.00	02	50	33	309858	772125	GW	01
3600129-170	189	01	12.00	02	55	35	310020	773459	GW	01
3600129-171	189	01	12.00	02	27	22	309419	772077	GW	01
3600129-172	189	01	12.00	02	60	40	309571	773430	GW	01
3600129-173	189	01	12.00	02	54	39	308985	772619	GW	01
3600129-174	189	01	12.00	02	57	39	308644	772577	GW	01
3600129-175	189	01	12.00	02	41	34	308398	772582	GW	01
3600129-176	189	01	12.00	02	37	31	308093	772570	GW	01
3600129-177	189	01	12.00	02	42	28	307917	772858	GW	01
3600129-178	189	01	10.00	02	260	114	307879	773225	GW	04
3600129-179	189	01	12.00	02	38	31	308153	774996	GW	01
3600129-180	189	01	12.00	02	47	34	309727	774737	GW	01
3600129-181	189	01	9.00	02	225	115	309770	774133	GW	04
3600129-182	189	01	12.00	02	60	31	307247	772595	GW	01
3600129-183	189	01	12.00	02	60	32	306987	772577	GW	01
3600129-184	189	01	12.00	02	65	32	306503	771855	GW	01

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

SAID = Service Area ID
LAD = Low Average Demand (Million Gallons per Month)
HAD = High Average Demands (Million Gallons per Month)
LMMD = Low Max. Month Demand (Million Gallons per Month)
HMMD = High Max. Month Demand (Million Gallons per Month)
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
PPOP = Permanent Population (1000's)
SPOP = Seasonal Population (1000's)

STS = Status
01 = Existing
02 = Proposed
03 = Standby/Backup
04 = To Be Plugged
DPRH 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 (GW & SW Facilities)
01 = Unknown
MTR? = Is use Metered by Volume or Power
Consumption and Reportrd to the District?
Y = Yes
N = No
XPLNR = East Planar Coordinate
YPLNR = North Planar Coordinate

)RY COUNTY MODEL AREA WATER USE

: 1 HEADINGS (Table 1 - Existing Water Use - Permit Information and Table 3 - Forcasted Demands for Each Permit)

MIT	AN. ALL.	ALL. UNT.	MAX MO.	MO. UTS.	CO	DATE ISS.	USE TYPE	SRC.	NO. WLS.	SW PMPS	OWNER

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

MIT	FACILITY NUMBER	STS	WELL DIA.	DPTH CODE	TD	CD	PMP INT	PUMP TYPE	PUMP CAP.	MTR?	XPLNR	YPLNR	SRC	AQ.	COMMENTS
	841.00	03	3.30	01	11	10/87?	PWS	GW	15		IMMOKALEE WATER & SEWER DISTRICT				
		01	4.00	02	275	236	237	02	110	Y	358594	748424	GW	04	
		01	6.00	02	255	220	211	02	200	Y	365418	748456	GW	04	
		03	6.00	02		154	155	02	250	Y	357288	764573	GW	04	
		01	8.00	02	315	229	230	02	350	Y	358508	748829	GW	04	
		01	8.00	02	275	250	251	02	350	Y	357872	748826	GW	04	
		01	8.00	02	175	95	96	02	350	Y	358417	748727	GW	04	
		01	8.00	02	310	234	235	02	350	Y	358599	748728	GW	04	
		01	8.00	02	200	145	146	02	350	Y	354382	765579	GW	04	
		01	8.00	02	201	140	141	02	350	Y	351799	754453	GW	04	
		01	8.00	02	180	100	101	02	350	Y	366366	760576	GW	04	
		01	8.00	02	180	100	101	02	350	Y	369093	760588	GW	04	
		02	8.00	02	200	140	141	02	250	Y	366600	762100	GW	04	
		02	8.00	02	200	140	141	02	250	Y	366600	761350	GW	04	
		02	8.00	02	200	140	141	02	250	Y	349600	763200	GW	04	
		02	8.00	02	200	140	141	02	250	Y	349850	763200	GW	04	
)026	313.00	03			22	4/76	IND	GW	4		GLADES COUNTY SUGAR GROWERS				
	2200026-1	01	12.00	02	75	40					473682	897572	GW	03	
	2200026-2	01	12.00	02	75	40					474081	897621	GW	03	
	2200026-3	01	12.00	02	75	40					476492	897563	GW	03	
	2200026-4			02							473224	897485	GW	03	
0045	120.45	02	.33	01	22	7/87?	PWS	GW	4		CITY OF MOORE HAVEN				
	2200045-5	01	10.00	02	100	60		02	400	Y	469457	909242	GW	03	
	2200045-6	03	10.00	02	100	60		02			469623	909197	GW	03	MONITOR WELL
		02	10.00	02	50	30			200		466900	921050	GW	01	
		02	10.00	02	50	30			200		466000	921050	GW	01	
200073	5.48	03	.30	01	22	7/87?	PWS	GW		2	WHISPERING PINES MOBILE HOME PARK				
	2200073-29A	02	4.00	02	100	70			50		348687	889813	GW	04	
	2200073-29B	02	4.00	02	100	70			50		348713	889324	GW	04	
200113			1.44	01	22	8/86?	IND	GW	2	2	FLORIDA ROCK INDUSTRIES (DEWATERING AND DREDGE MINING)				
		01	12.00	02	50	20		02	500	N	402000	934000	GW	01	THIS IS A CLOSED SYSTEM SAND MIMING OPERATION
		02	12.00	02	50	20		02	500	N	402000	934000	GW	01	
		01							1000	N	402000	934000	SW		
		01							1800	N	402000	934000	SW		
	15.67	03	.05	01	22	3/87?	PWS	GW	3		WHISPER CREEK (LABELLE OAKS)				
		01	6.00	02	130	80	70	02	50	Y	357250	892400	GW	04	
		01	6.00	02	130	80	70	02	50	Y	357250	892700	GW	04	

```
                  02      6.00 02  130     80  70 02      50 Y    356900  892700 GW  04

        7.9       03  .324    01    36 3/87? PWS GW        5     CHARLESTON PARK HOUSING DEVELOPMENT
                  01      2.00 02   30     10   8 01      10      309758  856015 GW  01
                  02      4.00 02   30     10   8 01      10      309580  856225 GW  01
                  02      4.00 02   30     10   8 01      10      309757  854435 GW  01
                  02      4.00 02   30     10   8 01      10      309583  856630 GW  01
                  02      4.00 02   30     10   8 01      10      309760  856810 GW  01

3600637 2102.00   03  5.76    01    36 11/88?IND SW            1 J. L. KELLEY ROCK COMPANY (DEWATERING)
                  02                                    4000                     SW      PERMIT IS TO DEWATER A LIMEROCK QUARRY - PERMIT EXPIRES 11/92

2600021 103.62    03                26 5/87? IND GW        2     USSC
                  01      8.00 02   80         30 02     150      520849  879778 GW  03
                  03      6.00 02   80         30 01     150      520849  879778 GW  03

2600096 98.2      03  806     01    26 5/88? PWS GW        2     GENERAL DEVELOPMENT UTILITIES, INC. (PORT LABELLE)
                  01      8.00 02  300    250     02     450 Y    377500  884100 GW  04
                  01     14.00 02  283    225     02     500 Y    377750  884400 GW  04

2600105 255.50    03  1.40    01    26 1/89? PWS GW        7     CITY OF LABELLE
        2600105-43 01    12.00 02   26     20  15 02     290 Y    348607  875570 GW  01
        2600105-44 01    12.00 02   26     20  15 02     140      348850  875151 GW  01
        2600105-45 01    12.00 02   26     20  15 02     290 Y    348603  874782 GW  01
        2600105-46 01    12.00 02   26     20  15 02     290 Y    348805  874497 GW  01
        2600105-47 01     6.00 02   24     20  18 01     250 Y    348644  874102 GW  01
        2600105-48 01     6.00 02   32     25  20 01     250 Y    348254  874431 GW  01
        2600105-   02     6.00 02   30     25  20 01     250 Y                   GW  01

2600164 123.81    03  339     01    26 1/84  PWS GW       14     HENDRY CORRECTIONAL INSTITUTE
        SEE PERMIT 26-00126 FOR WELL DETAILS

2600167 6.32      03  .017    01    26 5/84  PWS GW        2     M. J. BURGESS, JR. (GRADMA'S GROVE)
        2600167-79 02     4.00 02   35     15  15 01      40      344400  873700 GW  01
        2600167-80 02     4.00 02   35     15  15 01      40      344500  873700 GW  01

2600252               10.08   01    26 8/88? IND SW            1 USSC - DEWATERING BORROW PIT
                                            0 NGVD      7000      516920  762850 SW  01

2600276   22.66   03  .1176   01    26 9/87? IND GW        6     BERRY CITRUS PRODUCTS
        2600276-99  01    2.00 02   30     25  14 01      32 N    337763  866791 GW  01
        2600276-100 01    2.00 02   30     25  14 01      32 N    337819  866818 GW  01
        2600276-101 01    2.00 02   30     25  14 01      32 N    337894  866854 GW  01
        2600276-102 01    2.00 02   30     25  14 01      32 N    337966  866901 GW  01
        2600276-103 01    2.00 02   30     25  14 01      32 N    338041  866984 GW  01
        2600276-104 04    4.00 02  120    100     02      85      337719  866574 GW  04

                      2.304   01    26 2/88? IND SW            1 SHOULTS MINING (DEWATERING)
                  01                                    1600                     SW

                      2.88    03    26 11/86?IND SW            1 MORRIS E. RIDGEDILL (DEWATERING)
                  02                                    2000                     SW
```

THIS PAGE INTENTIONALLY BLANK

APPENDIX F

COMPARATIVE HYDROGRAPHS

STATION: HE-3 LAYER: 1 ROW: 39 COLUMN: 43

Water Levels in Feet, Datum NGVD

```
      12        22        32        42        52        62
       +.........+.........+.........+.........+.........+
JAN 86 :    *
FEB 86 :   *+
MAR 86 :    *
APR 86 :   *+
MAY 86 :  +*
JUN 86 :   + *
JUL 86 :    +*
AUG 86 :     +*
SEP 86 :     *
OCT 86 :    +*
NOV 86 :    +*
DEC 86 :    +*
JAN 87 :    +*
FEB 87 :    *
MAR 87 :    +*
APR 87 :    *
MAY 87 :    *
JUN 87 :   +*
JUL 87 :    *
AUG 87 :   +*
SEP 87 :     +*
OCT 87 :     *
NOV 87 :     +*
DEC 87 :     *
JAN 88 :     *
FEB 88 :    *
MAR 88 :    *+
APR 88 :   +*
MAY 88 :   +*
JUN 88 :    *
JUL 88 :     *
AUG 88 :     +*
SEP 88 :    +*
OCT 88 :    *
NOV 88 :    +*
DEC 88 :    *
```

```
* = simulated water levels
+ = observed water levels
M = observed data missing
    (if observed agrees with simulated, only a * is printed)
```

<u>Comments:</u> none

```
STATION:    HE-5           LAYER: 1    ROW: 18      COLUMN: 34

          Water Levels in Feet, Datum NGVD

      18        28        38        48        58        68
       +.........+.........+.........+.........+.........+
JAN 86 :    *
FEB 86 :    *
MAR 86 :    *
APR 86 :   * +
MAY 86 :   *+
JUN 86 :    +*
JUL 86 :     *+
AUG 86 :      *
SEP 86 :     *
OCT 86 :     * +
NOV 86 :    *+
DEC 86 :    *+
JAN 87 :    *+
FEB 87 :    *+
MAR 87 :     *+
APR 87 :   *+
MAY 87 :   *+
JUN 87 :   *+
JUL 87 :   *+
AUG 87 :    *+
SEP 87 :    *+
OCT 87 :    *+
NOV 87 :      *
DEC 87 :    *+
JAN 88 :    *+
FEB 88 :   * +
MAR 88 :   * +
APR 88 :   * +
MAY 88 :   *
JUN 88 :   *+
JUL 88 :    * +
AUG 88 :     *+
SEP 88 M    *
OCT 88 :   *+
NOV 88 :    *
DEC 88 :   *+


* = simulated water levels
+ = observed water levels
M = observed data missing
    (if observed agrees with simulated, only a * is printed)
```

<u>Comments:</u> none

STATION: HE-339   LAYER: 1   ROW: 18   COLUMN: 47

Water Levels in Feet, Datum NGVD

```
       8        18        28        38        48        58
       +.........+.........+.........+.........+.........+
JAN 86 :   +*
FEB 86 :   + *
MAR 86 :   +  *
APR 86 :  +   *
MAY 86 :    +  *
JUN 86 :   +    *
JUL 86 :   +     *
AUG 86 :   +     *
SEP 86 :   +    *
OCT 86 :   +    *
NOV 86 :  +     *
DEC 86 :   +    *
JAN 87 :  +     *
FEB 87 :   +    *
MAR 87 :   +    *
APR 87 :   +   *
MAY 87 :   +   *
JUN 87 :    +   *
JUL 87 :   +    *
AUG 87 :    +   *
SEP 87 :   +     *
OCT 87 :   +    *
NOV 87 :  +      *
DEC 87 :   +    *
JAN 88 :   +    *
FEB 88 :   +    *
MAR 88 :   +    *
APR 88 :   +   *
MAY 88 :    +  *
JUN 88 :   +    *
JUL 88 :  +     *
AUG 88 :   +     *
SEP 88 M        *
OCT 88 :    +  *
NOV 88 :    +   *
DEC 88 :   +   *
```

* = simulated water levels
+ = observed water levels
M = observed data missing
(if observed agrees with simulated, only a * is printed)

<u>Comments:</u> Well located near canal, affected by cell wide averaging.

STATION: HE-554 LAYER: 1 ROW: 22 COLUMN: 16

Water Levels in Feet, Datum NGVD

```
      25        35        45        55        65        75
       +.........+.........+.........+.........+.........+
JAN 86 :  *
FEB 86 :  *+
MAR 86 :   *+
APR 86 :  *+
MAY 86 : *+
JUN 86 :  + *
JUL 86 :    *
AUG 86 :    *+
SEP 86 :   *+
OCT 86 :   *   +
NOV 86 :  *+
DEC 86 :   *+
JAN 87 :   *+
FEB 87 :   *+
MAR 87 :    *
APR 87 :  *+
MAY 87 :   *
JUN 87 :   *
JUL 87 :   +*
AUG 87 :  + *
SEP 87 :  + *
OCT 87 :    *
NOV 87 :    *+
DEC 87 :   *
JAN 88 :   *
FEB 88 :  *+
MAR 88 :  *
APR 88 :  *
MAY 88 :  *
JUN 88 :  * +
JUL 88 :  +*
AUG 88 M     *
SEP 88 :   *+
OCT 88 :  *+
NOV 88 :  *
DEC 88 :  *
```

* = simulated water levels
+ = observed water levels
M = observed data missing
(if observed agrees with simulated, only a * is printed)

Comments: none

STATION: HE-558 LAYER: 1 ROW: 11 COLUMN: 9

Water Levels in Feet, Datum NGVD

```
       7        17        27        37        47        57
       +.........+.........+.........+.........+.........+
JAN 86 :     *
FEB 86 :    * +
MAR 86 :    * +
APR 86 :   *  +
MAY 86 :   *  +
JUN 86 :     *+
JUL 86 :      *+
AUG 86 :      *+
SEP 86 :     *+
OCT 86 :     * +
NOV 86 :    * +
DEC 86 :     *+
JAN 87 :    * +
FEB 87 :    * +
MAR 87 :     * +
APR 87 :   *   +
MAY 87 :   *   +
JUN 87 :   *  +
JUL 87 :    * +
AUG 87 :    * +
SEP 87 :    *  +
OCT 87 :     *+
NOV 87 :       *
DEC 87 :      *
JAN 88 :     *+
FEB 88 :    * +
MAR 88 :    * +
APR 88 :   *  +
MAY 88 :  *   +
JUN 88 :   *  +
JUL 88 :   *   +
AUG 88 :     *+
SEP 88 :    * +
OCT 88 :   *  +
NOV 88 :    * +
DEC 88 :   *  +
```

* = simulated water levels
+ = observed water levels
M = observed data missing
(if observed agrees with simulated, only a * is printed)

Comments: none

STATION: HE-569 LAYER: 1 ROW: 15 COLUMN: 10

Water Levels in Feet, Datum NGVD

```
      17        27        37        47        57        67
       +.........+.........+.........+.........+.........+
JAN 86 :    *+
FEB 86 :    *
MAR 86 :    *
APR 86 :   *
MAY 86 :   *+
JUN 86 :   +  *
JUL 86 :  +    *
AUG 86 :     +  *
SEP 86 :    + *
OCT 86 :     *
NOV 86 :    *+
DEC 86 :     *
JAN 87 :    *
FEB 87 :    *+
MAR 87 :     *
APR 87 :    *+
MAY 87 :    *
JUN 87 :    *
JUL 87 :     *
AUG 87 :    +*
SEP 87 :    + *
OCT 87 :    + *
NOV 87 :     +*
DEC 87 :     *
JAN 88 :    *
FEB 88 :    *+
MAR 88 :    *+
APR 88 :   *+
MAY 88 :   *+
JUN 88 :   * +
JUL 88 :    *
AUG 88 :    + *
SEP 88 :     *
OCT 88 :    *+
NOV 88 :    *+
DEC 88 :    *+
```

* = simulated water levels
+ = observed water levels
M = observed data missing
(if observed agrees with simulated, only a * is printed)

<u>Comments:</u> none

STATION: HE-851 LAYER: 1 ROW: 16 COLUMN: 15

Water Levels in Feet, Datum NGVD

```
      19        29        39        49        59        69
       +.........+.........+.........+.........+.........+
JAN 86 :    *
FEB 86 :    *
MAR 86 :    *
APR 86 :   *+
MAY 86 :   *
JUN 86 :  +   *
JUL 86 :      *
AUG 86 :      *
SEP 86 :     *+
OCT 86 :     *   +
NOV 86 :    *   +
DEC 86 :     *  +
JAN 87 :    *   +
FEB 87 :     *  +
MAR 87 :      * +
APR 87 :    *  +
MAY 87 :    * +
JUN 87 :     *+
JUL 87 :     * +
AUG 87 :     *+
SEP 87 :      * +
OCT 87 :      *  +
NOV 87 :      * +
DEC 87 :     * +
JAN 88 :     * +
FEB 88 :    *  +
MAR 88 :    *  +
APR 88 :   *  +
MAY 88 :    *+
JUN 88 :    *+
JUL 88 :    *  +
AUG 88 :      *  +
SEP 88 :     * +
OCT 88 :    *  +
NOV 88 :    * +
DEC 88 :    * +
```

* = simulated water levels
+ = observed water levels
M = observed data missing
(if observed agrees with simulated, only a * is printed)

Comments: none

```
STATION:   HE-852        LAYER: 1    ROW: 19      COLUMN: 21

          Water Levels in Feet, Datum NGVD

      14        24        34        44        54        64
       +.........+.........+.........+.........+.........+
JAN 86 :           *
FEB 86 :          +*
MAR 86 :    +      *
APR 86 :    +      *
MAY 86 :   +      *
JUN 86 :  +         *
JUL 86 :     +      *
AUG 86 :     +     *
SEP 86 :    +     *
OCT 86 :           +*
NOV 86 :          +*
DEC 86 :           +*
JAN 87 :           +*
FEB 87 :           +*
MAR 87 :           + *
APR 87 :          +*
MAY 87 :          + *
JUN 87 :          +  *
JUL 87 :          +  *
AUG 87 :          +  *
SEP 87 :           + *
OCT 87 :           + *
NOV 87 :           +*
DEC 87 :          + *
JAN 88 :           *+
FEB 88 :           *+
MAR 88 :           *
APR 88 :           *
MAY 88 :          + *
JUN 88 :          + *
JUL 88 :           +*
AUG 88 M              *
SEP 88 :            *+
OCT 88 :           *+
NOV 88 :           *
DEC 88 :           *


* = simulated water levels
+ = observed water levels
M = observed data missing
    (if observed agrees with simulated, only a * is printed)
```

Comments: none

```
STATION:   HE-854        LAYER: 1    ROW: 20      COLUMN: 40

          Water Levels in Feet, Datum NGVD

      14        24        34        44        54        64
       +.........+.........+.........+.........+.........+
JAN 86 :    +*
FEB 86 :    +*
MAR 86 :    +*
APR 86 :   + *
MAY 86 :  +  *
JUN 86 :     + *
JUL 86 :     + *
AUG 86 :    +  *
SEP 86 :     +*
OCT 86 :    +   *
NOV 86 :     +*
DEC 86 :  +   *
JAN 87 :    + *
FEB 87 :    + *
MAR 87 :     +*
APR 87 :    +*
MAY 87 :    +*
JUN 87 :    + *
JUL 87 :    + *
AUG 87 :    + *
SEP 87 :     + *
OCT 87 :    + *
NOV 87 :     + *
DEC 87 :    + *
JAN 88 :     +*
FEB 88 :    + *
MAR 88 :    + *
APR 88 M     *
MAY 88 M     *
JUN 88 M     *
JUL 88 M      *
AUG 88 M       *
SEP 88 M      *
OCT 88 M     *
NOV 88 M      *
DEC 88 M     *


* = simulated water levels
+ = observed water levels
M = observed data missing
    (if observed agrees with simulated, only a * is printed)
```

<u>Comments:</u> none

STATION: HE-856   LAYER: 1   ROW: 25   COLUMN: 34

Water Levels in Feet, Datum NGVD

```
      19        29        39        49        59        69
       +.........+.........+.........+.........+.........+
JAN 86 :      *+
FEB 86 :    * +
MAR 86 :   *  +
APR 86 :  *    +
MAY 86 : *   +
JUN 86 :    *
JUL 86 :   *   +
AUG 86 :    *  +
SEP 86 :   *   +
OCT 86 :    *   +
NOV 86 :   *  +
DEC 86 :   *   +
JAN 87 :   *   +
FEB 87 :   *   +
MAR 87 :    *  +
APR 87 :  *   +
MAY 87 : *   +
JUN 87 :  * +
JUL 87 :  * +
AUG 87 :  * +
SEP 87 :   *   +
OCT 87 :   *   +
NOV 87 :    *  +
DEC 87 :   *   +
JAN 88 :   *  +
FEB 88 :   *  +
MAR 88 :  *   +
APR 88 :  *   +
MAY 88 : *    +
JUN 88 :  *  +
JUL 88 :   *   +
AUG 88 :    *  +
SEP 88 M   *
OCT 88 :  *  +
NOV 88 :   *+
DEC 88 :  * +
```

* = simulated water levels
+ = observed water levels
M = observed data missing
(if observed agrees with simulated, only a * is printed)

<u>Comments:</u> none

STATION: HE-857 LAYER: 1 ROW: 8 COLUMN: 28

Water Levels in Feet, Datum NGVD

```
       9        19        29        39        49        59
       +.........+.........+.........+.........+.........+
JAN 86 :       *+
FEB 86 :      * +
MAR 86 :     *   +
APR 86 :   *     +
MAY 86 : *      +
JUN 86 :    *   +
JUL 86 :    *     +
AUG 86 :    *     +
SEP 86 :   *     +
OCT 86 :   *      +
NOV 86 :  *      +
DEC 86 :   *      +
JAN 87 :  *      +
FEB 87 :  *       +
MAR 87 :   *      +
APR 87 : *       +
MAY 87 : *       +
JUN 87 : *        +
JUL 87 :  *       +
AUG 87 :  *      +
SEP 87 :   *     +
OCT 87 :   *     +
NOV 87 :    *     +
DEC 87 :   *     +
JAN 88 :   *  +
FEB 88 :  *    +
MAR 88 :  *    +
APR 88 : *    +
MAY 88 : *   +
JUN 88 : *   +
JUL 88 : *      +
AUG 88 :  *     +
SEP 88 M *
OCT 88 : *   +
NOV 88 :  *  +
DEC 88 : *   +
```

* = simulated water levels
\+ = observed water levels
M = observed data missing
(if observed agrees with simulated, only a * is printed)

<u>Comments:</u> Well located near canal, affected by cell wide averaging.

```
STATION:   HE-858        LAYER: 1    ROW: 11      COLUMN: 34

          Water Levels in Feet, Datum NGVD

      12        22        32        42        52        62
       +.........+.........+.........+.........+.........+
JAN 86 :       *+
FEB 86 :      *+
MAR 86 :     * +
APR 86 :   *   +
MAY 86 M  *
JUN 86 M    *
JUL 86 M    *
AUG 86 M    *
SEP 86 M   *
OCT 86 :    *   +
NOV 86 :   *   +
DEC 86 :    *  +
JAN 87 :   *   +
FEB 87 :   *  +
MAR 87 :    *  +
APR 87 :  *  +
MAY 87 : *    +
JUN 87 :  *    +
JUL 87 :  *    +
AUG 87 :   *   +
SEP 87 :   *   +
OCT 87 :   *   +
NOV 87 :     *
DEC 87 :    *  +
JAN 88 :   *   +
FEB 88 :   *    +
MAR 88 :  *    +
APR 88 :  *    +
MAY 88 : *    +
JUN 88 : *    +
JUL 88 :  *    +
AUG 88 :   *    +
SEP 88 :  *    +
OCT 88 :  *   +
NOV 88 :  *    +
DEC 88 :  *   +


* = simulated water levels
+ = observed water levels
M = observed data missing
    (if observed agrees with simulated, only a * is printed)
```

<u>Comments:</u> Well located near canal, affected by cell wide averaging.

```
STATION:   HE-860        LAYER: 1    ROW: 29      COLUMN: 37

          Water Levels in Feet, Datum NGVD

      16        26        36        46        56        66
       +.........+.........+.........+.........+.........+
JAN 86 :    *+
FEB 86 :   * +
MAR 86 :   * +
APR 86 :  *  +
MAY 86 : *  +
JUN 86 :   +*
JUL 86 :    * +
AUG 86 :     * +
SEP 86 :    * +
OCT 86 :    * +
NOV 86 :   * +
DEC 86 :    * +
JAN 87 :   * +
FEB 87 :   * +
MAR 87 :    * +
APR 87 :  *  +
MAY 87 :  * +
JUN 87 :  * +
JUL 87 :   * +
AUG 87 :   *+
SEP 87 :    * +
OCT 87 :    * +
NOV 87 :     * +
DEC 87 :    * +
JAN 88 :   *  +
FEB 88 :   *  +
MAR 88 :   *  +
APR 88 :  *   +
MAY 88 M  *
JUN 88 M   *
JUL 88 M    *
AUG 88 M    *
SEP 88 M   *
OCT 88 M  *
NOV 88 M   *
DEC 88 M  *


* = simulated water levels
+ = observed water levels
M = observed data missing
    (if observed agrees with simulated, only a * is printed)
```

<u>Comments:</u> none

STATION: HE-862 LAYER: 1 ROW: 40 COLUMN: 48

Water Levels in Feet, Datum NGVD

```
       6        16        26        36        46        56
       +.........+.........+.........+.........+.........+
JAN 86 :     +*
FEB 86 :      +*
MAR 86 :     +  *
APR 86 :      + *
MAY 86 :    +   *
JUN 86 :    +     *
JUL 86 :       +  *
AUG 86 :       +   *
SEP 86 :       +  *
OCT 86 :      +   *
NOV 86 :      +   *
DEC 86 :      +    *
JAN 87 :      +   *
FEB 87 :      +   *
MAR 87 :      +   *
APR 87 :     +   *
MAY 87 :    +    *
JUN 87 :     +   *
JUL 87 :      +   *
AUG 87 :    +    *
SEP 87 :    +      *
OCT 87 :    +      *
NOV 87 :    +      *
DEC 87 :    +     *
JAN 88 :    +     *
FEB 88 :   +      *
MAR 88 :   +     *
APR 88 :   +     *
MAY 88 :    +    *
JUN 88 :     +    *
JUL 88 :   +       *
AUG 88 :   +       *
SEP 88 :   +      *
OCT 88 :   +      *
NOV 88 :  +       *
DEC 88 :   +     *
```

* =simulated water levels
\+ = observed water levels
M = observed data missing
(if observed agrees with simulated, only a * is printed)

<u>Comments:</u> Well located near canal, affected by cell wide averaging.

STATION: HE-884 LAYER: 1 ROW: 40 COLUMN: 37

Water Levels in Feet, Datum NGVD

```
      11        21        31        41        51        61
       +.........+.........+.........+.........+.........+
JAN 86 M    *
FEB 86 M    *
MAR 86 M    *
APR 86 M    *
MAY 86 M    *
JUN 86 M      *
JUL 86 M      *
AUG 86 M       *
SEP 86 M      *
OCT 86 :    +  *
NOV 86 :    + *
DEC 86 :    + *
JAN 87 :  +   *
FEB 87 :    +*
MAR 87 :    + *
APR 87 :   + *
MAY 87 :   +*
JUN 87 :   + *
JUL 87 :   + *
AUG 87 :   + *
SEP 87 :    +  *
OCT 87 :    + *
NOV 87 :   +   *
DEC 87 :    + *
JAN 88 :   +  *
FEB 88 :   + *
MAR 88 :    +*
APR 88 :   + *
MAY 88 :  + *
JUN 88 :     *
JUL 88 :    + *
AUG 88 :    +  *
SEP 88 M      *
OCT 88 :   + *
NOV 88 :    + *
DEC 88 :    +*
```

* = simulated water levels
+ = observed water levels
M = observed data missing
(if observed agrees with simulated, only a * is printed)

<u>Comments:</u> Well located near canal, affected by nodal averaging.

```
STATION:   HE-1027       LAYER: 1    ROW: 20      COLUMN: 24

          Water Levels in Feet, Datum NGVD

      22        32        42        52        62        72
       +.........+.........+.........+.........+.........+
JAN 86 M   *
FEB 86 M   *
MAR 86 M   *
APR 86 M  *
MAY 86 M  *
JUN 86 M     *
JUL 86 M     *
AUG 86 M     *
SEP 86 M    *
OCT 86 M    *
NOV 86 M    *
DEC 86 M    *
JAN 87 M    *
FEB 87 M    *
MAR 87 M     *
APR 87 M    *
MAY 87 M    *
JUN 87 M    *
JUL 87 M     *
AUG 87 M     *
SEP 87 M      *
OCT 87 M     *
NOV 87 :     *+
DEC 87 :    *+
JAN 88 M    *
FEB 88 :    * +
MAR 88 M   *
APR 88 M   *
MAY 88 M    *
JUN 88 M   *
JUL 88 M    *
AUG 88 M      *
SEP 88 M     *
OCT 88 M    *
NOV 88 M     *
DEC 88 M    *


* = simulated water levels
+ = observed water levels
M = observed data missing
    (if observed agrees with simulated, only a * is printed)
```

Comments: none

```
STATION:    HE-1036       LAYER: 1    ROW: 23      COLUMN: 37

          Water Levels in Feet, Datum NGVD

      19        29        39        49        59        69
       +.........+.........+.........+.........+.........+
JAN 86 M   *
FEB 86 M   *
MAR 86 M   *
APR 86 M  *
MAY 86 M  *
JUN 86 M    *
JUL 86 M    *
AUG 86 M     *
SEP 86 M    *
OCT 86 M    *
NOV 86 M   *
DEC 86 M    *
JAN 87 M    *
FEB 87 M   *
MAR 87 M    *
APR 87 M   *
MAY 87 M  *
JUN 87 M  *
JUL 87 M   *
AUG 87 M   *
SEP 87 M    *
OCT 87 :    *
NOV 87 :     *
DEC 87 :    *
JAN 88 :   *+
FEB 88 :   *+
MAR 88 :   *+
APR 88 :  *+
MAY 88 :  * +
JUN 88 :  *+
JUL 88 :    *+
AUG 88 :     *+
SEP 88 :   *+
OCT 88 :  *+
NOV 88 :   *
DEC 88 :   *


* = simulated water levels
+ = observed water levels
M = observed data missing
    (if observed agrees with simulated, only a * is plotted)
```

<u>Comments:</u> none

```
STATION:    HE-1043       LAYER: 1    ROW: 35      COLUMN: 30

          Water Levels in Feet, Datum NGVD

      15        25        35        45        55        65
       +.........+.........+.........+.........+.........+
JAN 86 M  *
FEB 86 M  *
MAR 86 M  *
APR 86 M  *
MAY 86 M  *
JUN 86 M     *
JUL 86 M    *
AUG 86 M     *
SEP 86 M     *
OCT 86 M     *
NOV 86 M    *
DEC 86 M     *
JAN 87 M    *
FEB 87 M    *
MAR 87 M     *
APR 87 M    *
MAY 87 M   *
JUN 87 M   *
JUL 87 M    *
AUG 87 M    *
SEP 87 M     *
OCT 87 :     *
NOV 87 :      *
DEC 87 :     *
JAN 88 :    *+
FEB 88 :    *+
MAR 88 :    *+
APR 88 :   *
MAY 88 :   *
JUN 88 :   *
JUL 88 M     *
AUG 88 M      *
SEP 88 :     *+
OCT 88 :    *
NOV 88 :    *
DEC 88 :    *
```

* = simulated water levels
+ = observed water levels
M = observed data missing
(if observed agrees with simulated, only a * is printed)

Comments: none

STATION: HE-1062 LAYER: 1 ROW: 40 COLUMN: 35

Water Levels in Feet, Datum NGVD

```
      10        20        30        40        50        60
       +.........+.........+.........+.........+.........+
JAN 86 M     *
FEB 86 M     *
MAR 86 M     *
APR 86 M    *
MAY 86 M    *
JUN 86 M      *
JUL 86 M      *
AUG 86 M       *
SEP 86 M       *
OCT 86 M       *
NOV 86 M      *
DEC 86 M       *
JAN 87 M      *
FEB 87 M      *
MAR 87 M       *
APR 87 M      *
MAY 87 M     *
JUN 87 M     *
JUL 87 M     *
AUG 87 M     *
SEP 87 M       *
OCT 87 :      +*
NOV 87 :       +*
DEC 87 :      +*
JAN 88 :      *
FEB 88 :     +*
MAR 88 :      *
APR 88 :    +*
MAY 88 :   + *
JUN 88 :  +   *
JUL 88 :     + *
AUG 88 :      + *
SEP 88 :      *
OCT 88 :     +*
NOV 88 :     +*
DEC 88 :     +*
```

* = simulated water levels
+ = observed water levels
M = observed data missing
(if observed agrees with simulated, only a * is printed)

<u>Comments:</u> none

```
STATION:   HE-1069       LAYER: 1    ROW: 14      COLUMN: 39

          Water Levels in Feet, Datum NGVD

      13        23        33        43        53        63
       +.........+.........+.........+.........+.........+
JAN 86 M    *
FEB 86 M    *
MAR 86 M    *
APR 86 M   *
MAY 86 M  *
JUN 86 M    *
JUL 86 M     *
AUG 86 M     *
SEP 86 M    *
OCT 86 M     *
NOV 86 M    *
DEC 86 M    *
JAN 87 M    *
FEB 87 M   *
MAR 87 M    *
APR 87 M   *
MAY 87 M  *
JUN 87 M   *
JUL 87 M   *
AUG 87 M   *
SEP 87 M    *
OCT 87 :  + *
NOV 87 :   + *
DEC 87 :  + *
JAN 88 :   +*
FEB 88 :   *
MAR 88 :  +*
APR 88 :  *
MAY 88 :  *
JUN 88 :  *+
JUL 88 :   *+
AUG 88 :   +*
SEP 88 M   *
OCT 88 :  * +
NOV 88 :   *+
DEC 88 :   *+
```

```
* = simulated water levels
+ = observed water levels
M = observed data missing
    (if observed agrees with simulated, only a * is printed)
```

<u>Comments:</u> none

```
STATION:   HE-1077       LAYER: 1    ROW: 16      COLUMN: 20

          Water Levels in Feet, Datum NGVD

      20        30        40        50        60        70
       +.........+.........+.........+.........+.........+
JAN 86 M   *
FEB 86 M   *
MAR 86 M   *
APR 86 M  *
MAY 86 M  *
JUN 86 M     *
JUL 86 M     *
AUG 86 M    *
SEP 86 M    *
OCT 86 M    *
NOV 86 M   *
DEC 86 M    *
JAN 87 M    *
FEB 87 M    *
MAR 87 M     *
APR 87 M   *
MAY 87 M   *
JUN 87 M    *
JUL 87 M    *
AUG 87 M    *
SEP 87 M     *
OCT 87 M     *
NOV 87 M     *
DEC 87 M    *
JAN 88 :   * +
FEB 88 :   *  +
MAR 88 :   * +
APR 88 :  * +
MAY 88 :   *
JUN 88 :   *
JUL 88 :   *+
AUG 88 :     *+
SEP 88 :    *+
OCT 88 :   *+
NOV 88 :   *+
DEC 88 :   *


* = simulated water levels
+ = observed water levels
M = observed data missing
    (if observes agrees with simulated, only a * is printed)
```

Comments: none

```
STATION:    L-1137        LAYER: 1    ROW: 15      COLUMN:  5

          Water Levels in Feet, Datum NGVD

      13        23        33        43        53        63
       +.........+.........+.........+.........+.........+
JAN 86 :   +*
FEB 86 :  + *
MAR 86 :   + *
APR 86 :  + *
MAY 86 :  + *
JUN 86 :  +   *
JUL 86 :     +*
AUG 86 :     + *
SEP 86 :    + *
OCT 86 :    +*
NOV 86 :   + *
DEC 86 :   + *
JAN 87 :    +*
FEB 87 :    +*
MAR 87 :    + *
APR 87 :   + *
MAY 87 :   + *
JUN 87 :   + *
JUL 87 :   +  *
AUG 87 :   +  *
SEP 87 :    + *
OCT 87 :    +  *
NOV 87 :     + *
DEC 87 :    + *
JAN 88 :    +*
FEB 88 :   + *
MAR 88 :   + *
APR 88 :   + *
MAY 88 :  + *
JUN 88 :  +  *
JUL 88 :  +   *
AUG 88 :    +  *
SEP 88 :      *
OCT 88 :   + *
NOV 88 :  +  *
DEC 88 :  +  *


* = simulated water levels
+ = observed water levels
M = observed data missing
    (if observed agrees with simulated, only a * is printed)
```

<u>Comments:</u> none

STATION: L-1138   LAYER: 1   ROW: 29   COLUMN: 6

Water Levels in Feet, Datum NGVD

```
      18        28        38        48        58        68
       +.........+.........+.........+.........+.........+
JAN 86 :   *
FEB 86 :   *
MAR 86 :   *
APR 86 :  *
MAY 86 :  *+
JUN 86 :    *
JUL 86 :    +*
AUG 86 :    +*
SEP 86 :  +  *
OCT 86 :  + *
NOV 86 :   *
DEC 86 :  + *
JAN 87 :   +*
FEB 87 :  + *
MAR 87 :   + *
APR 87 :   *
MAY 87 :   +*
JUN 87 :  + *
JUL 87 :   + *
AUG 87 :   + *
SEP 87 :   + *
OCT 87 :   + *
NOV 87 :  +   *
DEC 87 M     *
JAN 88 :  +  *
FEB 88 :   +*
MAR 88 :  + *
APR 88 :  +*
MAY 88 :  *
JUN 88 :  +*
JUL 88 :    *
AUG 88 :    +*
SEP 88 :  +  *
OCT 88 :   *
NOV 88 :   *
DEC 88 :   *
```

* = simulated water levels
+ = observed water levels
M = observed data missing
(if observed agrees with simulated, only a * is printed)

<u>Comments:</u> none

```
STATION:    L-1964          LAYER: 1    ROW: 22       COLUMN:  4

          Water Levels in Feet, Datum NGVD

      20        30        40        50        60        70
       +.........+.........+.........+.........+.........+
JAN 86 :   *+
FEB 86 :   *+
MAR 86 :    *+
APR 86 :   *+
MAY 86 :   *+
JUN 86 :      *
JUL 86 :      *+
AUG 86 :     +*
SEP 86 :    +*
OCT 86 :    *
NOV 86 :    *
DEC 86 :    *
JAN 87 :    *+
FEB 87 :    * +
MAR 87 :     *
APR 87 :    *
MAY 87 :     * +
JUN 87 :    *+
JUL 87 :      *+
AUG 87 :     *
SEP 87 :     * +
OCT 87 :     * +
NOV 87 :     * +
DEC 87 :    *
JAN 88 :    *
FEB 88 :   *
MAR 88 :   *
APR 88 :   *
MAY 88 :   *
JUN 88 :   +*
JUL 88 :    *+
AUG 88 :      *+
SEP 88 :     *
OCT 88 :    *
NOV 88 :    *
DEC 88 :   *
```

```
* = simulated water levels
+ = observed water levels
M = observed data missing
    (if observed agrees with simulated, only a * is printed)
```

Comments: none

STATION: L-1978 LAYER: 1 ROW: 11 COLUMN: 3

Water Levels in Feet, Datum NGVD

```
       8         18        28        38        48        58
       +.........+.........+.........+.........+.........+
JAN 86 :    *
FEB 86 :   +*
MAR 86 :   *
APR 86 :  *
MAY 86 :  *
JUN 86 :    *
JUL 86 :    * +
AUG 86 :     +*
SEP 86 :    *+
OCT 86 :    *
NOV 86 :   *+
DEC 86 :  +  *
JAN 87 :    +*
FEB 87 :    +*
MAR 87 :    +*
APR 87 :   *+
MAY 87 :  *+
JUN 87 :  *+
JUL 87 :    *
AUG 87 :    *
SEP 87 :     *+
OCT 87 :      *
NOV 87 :        *
DEC 87 :      +*
JAN 88 :     + *
FEB 88 :     +*
MAR 88 :     *
APR 88 :    *
MAY 88 :  *+
JUN 88 :  *+
JUL 88 :   * +
AUG 88 M      *
SEP 88 :     * +
OCT 88 :    *+
NOV 88 :    *
DEC 88 :    *
```

* = simulated water levels
+ = observed water levels
M = observed data missing
(if observed agrees with simulated, only a * is printed)

<u>Comments:</u> none

STATION: L-1992 LAYER: 1 ROW: 21 COLUMN: 6

Water Levels in Feet, Datum NGVD

```
      18        28        38        48        58        68
       +.........+.........+.........+.........+.........+
JAN 86 :    +*
FEB 86 :    +*
MAR 86 :    + *
APR 86 :   + *
MAY 86 :   + *
JUN 86 :     +  *
JUL 86 :     +  *
AUG 86 :    +   *
SEP 86 :    +  *
OCT 86 :    + *
NOV 86 :    + *
DEC 86 :   +  *
JAN 87 :    + *
FEB 87 :     +*
MAR 87 :    +  *
APR 87 :    + *
MAY 87 :     + *
JUN 87 :    + *
JUL 87 :     + *
AUG 87 :    +  *
SEP 87 :    +  *
OCT 87 :     + *
NOV 87 :     +  *
DEC 87 :    +  *
JAN 88 :    + *
FEB 88 :    + *
MAR 88 :    + *
APR 88 :  +  *
MAY 88 :  +  *
JUN 88 :   +  *
JUL 88 :    + *
AUG 88 :     +  *
SEP 88 :    +  *
OCT 88 :    + *
NOV 88 :    + *
DEC 88 :    +*
```

* = simulated water levels
+ = observed water levels
M = observed data missing
(if observed agrees with simulated, only a * is printed)

<u>Comments:</u> none

```
STATION:   L-2202        LAYER: 1    ROW: 10     COLUMN: 6

          Water Levels in Feet, Datum NGVD

       7         17        27        37        47        57
       +.........+.........+.........+.........+.........+
JAN 86 :    *
FEB 86 :   *+
MAR 86 :   * +
APR 86 :  *+
MAY 86 :  *
JUN 86 :    *  +
JUL 86 :    *   +
AUG 86 :    * +
SEP 86 :    * +
OCT 86 :   * +
NOV 86 :   *  +
DEC 86 :    * +
JAN 87 :   * +
FEB 87 :   * +
MAR 87 :    *+
APR 87 :  *  +
MAY 87 :   *+
JUN 87 :   * +
JUL 87 :    *+
AUG 87 :   * +
SEP 87 :    * +
OCT 87 :    *  +
NOV 87 :      * +
DEC 87 :     *+
JAN 88 :     *+
FEB 88 :    *+
MAR 88 :   * +
APR 88 :   *+
MAY 88 :  * +
JUN 88 :  *+
JUL 88 :   *  +
AUG 88 :    *   +
SEP 88 :    * +
OCT 88 :   * +
NOV 88 M   *
DEC 88 :   * +
```

```
* = simulated water levels
+ = observed water levels
M = observed data missing
    (if observed agrees with simulated, only a * is printed)
```

Comments: none

STATION: C-131 LAYER: 1 ROW: 31 COLUMN: 25

Water Levels in Feet, Datum NGVD

```
      16        26        36        46        56        66
       +.........+.........+.........+.........+.........+
JAN 86 :      *
FEB 86 :      *
MAR 86 :     *
APR 86 :    *
MAY 86 :  +*
JUN 86 :      *+
JUL 86 :      * +
AUG 86 :       *
SEP 86 :      *+
OCT 86 :      *+
NOV 86 :     * +
DEC 86 :      *+
JAN 87 :      *
FEB 87 :      *
MAR 87 :      +*
APR 87 :    +*
MAY 87 :    *
JUN 87 :     *
JUL 87 :     +*
AUG 87 :   +  *
SEP 87 :   +   *
OCT 87 :    + *
NOV 87 :       *
DEC 87 :      *
JAN 88 :      *
FEB 88 :     +*
MAR 88 :     *
APR 88 :   +*
MAY 88 :  + *
JUN 88 :     *
JUL 88 :     +*
AUG 88 :     + *
SEP 88 :      *+
OCT 88 :   + *
NOV 88 :  +  *
DEC 88 :  +  *
```

* = simulated water levels
\+ = observed water levels
M = observed data missing
(if observes agrees with simulated, only a * is printed)

<u>Comments:</u> none

STATION: C-363   LAYER: 1   ROW: 31   COLUMN: 16

Water Levels in Feet, Datum NGVD

```
      20        30        40        50        60        70
       +.........+.........+.........+.........+.........+
JAN 86 :     * +
FEB 86 :    * +
MAR 86 :    *  +
APR 86 :   *   +
MAY 86 :  *  +
JUN 86 :    *    +
JUL 86 :    *    +
AUG 86 :    *   +
SEP 86 :    *  +
OCT 86 :    *  +
NOV 86 :   *  +
DEC 86 :    *+
JAN 87 :   *   +
FEB 87 :   *   +
MAR 87 :     *   +
APR 87 :   *   +
MAY 87 :   *     +
JUN 87 :   *  +
JUL 87 :    * +
AUG 87 :    *+
SEP 87 :    *+
OCT 87 :    *+
NOV 87 :     *+
DEC 87 :    * +
JAN 88 :    *+
FEB 88 :   * +
MAR 88 :   *+
APR 88 :  * +
MAY 88 :   *+
JUN 88 :  *+
JUL 88 :    *+
AUG 88 :    *  +
SEP 88 :    *
OCT 88 :  +*
NOV 88 :  +*
DEC 88 :  *+
```

* = simulated water levels
\+ = observed water levels
M = observed data missing
(if observed agrees with simulated, only a * is printed)

Comments: none

```
STATION:   C-462          LAYER: 1    ROW: 29      COLUMN: 15

          Water Levels in Feet, Datum NGVD

      22        32        42        52        62        72
       +.........+.........+.........+.........+.........+
JAN 86 :    *
FEB 86 :   +*
MAR 86 :   * +
APR 86 :  * +
MAY 86 : * +
JUN 86 :   *
JUL 86 :   *  +
AUG 86 :   *   +
SEP 86 :   *      +
OCT 86 :   *   +
NOV 86 :  *   +
DEC 86 :  *  +
JAN 87 :  *   +
FEB 87 :  *   +
MAR 87 :    *   +
APR 87 :  *   +
MAY 87 :  *   +
JUN 87 :  *   +
JUL 87 :   *  +
AUG 87 :  *    +
SEP 87 :   *  +
OCT 87 :   *   +
NOV 87 :    *      +
DEC 87 :   *      +
JAN 88 :   *  +
FEB 88 :  *   +
MAR 88 :  *   +
APR 88 : *   +
MAY 88 : *  +
JUN 88 : *  +
JUL 88 :  * +
AUG 88 :   *  +
SEP 88 :   *      +
OCT 88 :  * +
NOV 88 : * +
DEC 88 : * +


* = simulated water levels
+ = observed water levels
M = observed data missing
    (if observed agrees with simulated, only a * is printed)
```

<u>Comments:</u> none

STATION: C-532 LAYER: 1 ROW: 27 COLUMN: 13

Water Levels in Feet, Datum NGVD

```
      26        36        46        56        66        76
       +.........+.........+.........+.........+.........+
JAN 86 :         *  +
FEB 86 :       *    +
MAR 86 :      *      +
APR 86 :    *       +
MAY 86 :  *         +
JUN 86 :    *        +
JUL 86 :    *        +
AUG 86 :     *      +
SEP 86 :     *       +
OCT 86 :    *       +
NOV 86 :  *         +
DEC 86 :  *          +
JAN 87 :  *          +
FEB 87 :  *         +
MAR 87 :   *          +
APR 87 :  *         +
MAY 87 :   *        +
JUN 87 :   *        +
JUL 87 :   *        +
AUG 87 :   *        +
SEP 87 :    *       +
OCT 87 :    *       +
NOV 87 :    *       +
DEC 87 :   *        +
JAN 88 :  *       +
FEB 88 :  *         +
MAR 88 : *          +
APR 88 :*          +
MAY 88 :*          +
JUN 88 :*         +
JUL 88 M *
AUG 88 M    *
SEP 88 M   *
OCT 88 M  *
NOV 88 M *
DEC 88 M*
```

* = simulated water levels
\+ = observed water levels
M = observed data missing
(if observed agrees with simulated, only a * is printed)

<u>Comments:</u> Well located in cell with several intense ground water uses, affected by cell wide averaging.

STATION: C-966   LAYER: 1   ROW: 36   COLUMN: 20

Water Levels in Feet, Datum NGVD

```
      13        23        33        43        53        63
       +.........+.........+.........+.........+.........+
JAN 86 :    *
FEB 86 :    *
MAR 86 :    *
APR 86 :   +*
MAY 86 :  +*
JUN 86 :      *+
JUL 86 :     +*
AUG 86 :      *
SEP 86 :     *
OCT 86 :    + *
NOV 86 :    +*
DEC 86 :     +*
JAN 87 :    +*
FEB 87 :    +*
MAR 87 :      *
APR 87 :    +*
MAY 87 :    +*
JUN 87 :    +*
JUL 87 :     *
AUG 87 :     +*
SEP 87 :     +*
OCT 87 :     +*
NOV 87 :      +*
DEC 87 :     +*
JAN 88 :      *
FEB 88 :     *
MAR 88 :     *
APR 88 :   +*
MAY 88 :   +*
JUN 88 :   + *
JUL 88 :     +*
AUG 88 :     +*
SEP 88 :     +*
OCT 88 :     *
NOV 88 :     *+
DEC 88 :     *
```

```
* = simulated water levels
+ = observed water levels
M = observed data missing
    (if observed agrees with simulated, only a * is plotted)
```

<u>Comments:</u> none

STATION: C-986 LAYER: 1 ROW: 47 COLUMN: 20

Water Levels in Feet, Datum NGVD

```
       6        16        26        36        46        56
       +.........+.........+.........+.........+.........+
JAN 86 :     +*
FEB 86 :     +  *
MAR 86 :     +   *
APR 86 :     +   *
MAY 86 :   +     *
JUN 86 :  +         *
JUL 86 :      +     *
AUG 86 :       +    *
SEP 86 :       +    *
OCT 86 :      +     *
NOV 86 :     +     *
DEC 86 :     +      *
JAN 87 :      +    *
FEB 87 :      +    *
MAR 87 :      +     *
APR 87 :     +     *
MAY 87 :     +     *
JUN 87 :    +       *
JUL 87 :    +      *
AUG 87 :    +      *
SEP 87 :     +      *
OCT 87 :   +       *
NOV 87 :       +   *
DEC 87 :      +    *
JAN 88 :     +     *
FEB 88 :    +      *
MAR 88 :     +    *
APR 88 :   +      *
MAY 88 :   +     *
JUN 88 :   +      *
JUL 88 :    +       *
AUG 88 M            *
SEP 88 :     +     *
OCT 88 :   +      *
NOV 88 :   +      *
DEC 88 :    +     *
```

* = simulated water levels
+ = observed water levels
M = observed data missing
(if observed agrees with simulated, only a * is printed)

<u>Comments:</u> Well located in corner of model with specified head cells on two sides.

STATION: C-1071 LAYER: 1 ROW: 39 COLUMN: 24

Water Levels in Feet, Datum NGVD

```
       4        14        24        34        44        54
       +.........+.........+.........+.........+.........+
JAN 86 :     + *
FEB 86 :    +   *
MAR 86 :    +    *
APR 86 M         *
MAY 86 M          *
JUN 86 M              *
JUL 86 M              *
AUG 86 M               *
SEP 86 M               *
OCT 86 :         +     *
NOV 86 M               *
DEC 86 M               *
JAN 87 :      +        *
FEB 87 :     +         *
MAR 87 :     +          *
APR 87 :     +         *
MAY 87 :         +    *
JUN 87 :      +        *
JUL 87 :       +       *
AUG 87 :     +         *
SEP 87 :     +          *
OCT 87 :          +     *
NOV 87 :          +      *
DEC 87 :        +      *
JAN 88 :       +       *
FEB 88 :      +        *
MAR 88 :      +       *
APR 88 :    +         *
MAY 88 :    +         *
JUN 88 :        +     *
JUL 88 :        +       *
AUG 88 :       +        *
SEP 88 :           +    *
OCT 88 :  +            *
NOV 88 :   +           *
DEC 88 :  +           *
```

```
* = simulated water levels
+ = observed water levels
M = observed data missing
    (if observed agrees with simulated, only a * is printed)
```

Comments: Well located near canal, affected by cell wide averaging.

```
STATION:   C-1075        LAYER: 1    ROW: 28      COLUMN: 19

          Water Levels in Feet, Datum NGVD

      22        32        42        52        62        72
       +.........+.........+.........+.........+.........+
JAN 86 :     *
FEB 86 :    *+
MAR 86 :   *  +
APR 86 :  *  +
MAY 86 M *
JUN 86 M    *
JUL 86 M   *
AUG 86 M    *
SEP 86 M   *
OCT 86 :   * +
NOV 86 :  *  +
DEC 86 :   *  +
JAN 87 :   *  +
FEB 87 :   *  +
MAR 87 :    *  +
APR 87 :   * +
MAY 87 :   * +
JUN 87 :   *+
JUL 87 :   * +
AUG 87 :   *+
SEP 87 :    *+
OCT 87 :    * +
NOV 87 :     *+
DEC 87 :    * +
JAN 88 :   *  +
FEB 88 :   *  +
MAR 88 :  *   +
APR 88 :  *  +
MAY 88 :  * +
JUN 88 :  * +
JUL 88 :   *+
AUG 88 M    *
SEP 88 :   *   +
OCT 88 :  *   +
NOV 88 :  *  +
DEC 88 :  * +


* = simulated water levels
+ = observed water levels
M = observed data missing
    (if observed agrees with simulated, only a * is printed)
```

<u>Comments:</u> none

STATION: C-1078   LAYER: 1   ROW: 31   COLUMN: 14

Water Levels in Feet, Datum NGVD

```
      19        29        39        49        59        69
       +.........+.........+.........+.........+.........+
JAN 86 :    *+
FEB 86 :    *
MAR 86 :   *
APR 86 :  *+
MAY 86 M *
JUN 86 M   *
JUL 86 M   *
AUG 86 M    *
SEP 86 M   *
OCT 86 :   * +
NOV 86 :   *+
DEC 86 :   *
JAN 87 :   * +
FEB 87 :   * +
MAR 87 :    *      +
APR 87 :   *+
MAY 87 :   *   +
JUN 87 :   *  +
JUL 87 :   *  +
AUG 87 :   *     +
SEP 87 :    *  +
OCT 87 :    *   +
NOV 87 :     *   +
DEC 87 :    *   +
JAN 88 :   *   +
FEB 88 :   *   +
MAR 88 :   *  +
APR 88 :  * +
MAY 88 :  *+
JUN 88 :  * +
JUL 88 :   *  +
AUG 88 :    *       +
SEP 88 :   *  +
OCT 88 :  * +
NOV 88 :  * +
DEC 88 :  *
```

* = simulated water levels
+ = observed water levels
M = observed data missing
(if observed agrees with simulated, only a * is printed)

Comments: none

```
STATION:   HE-629        LAYER: 2    ROW: 13      COLUMN: 37

          Water Levels in Feet, Datum NGVD

      13        23        33        43        53        63
       +.........+.........+.........+.........+.........+
JAN 86 :   + *
FEB 86 :   + *
MAR 86 :   + *
APR 86 :    *
MAY 86 :  +*
JUN 86 :  +  *
JUL 86 :    + *
AUG 86 :    +*
SEP 86 :   + *
OCT 86 :   + *
NOV 86 :   +*
DEC 86 :   + *
JAN 87 :   +*
FEB 87 :   +*
MAR 87 :    +*
APR 87 :   *
MAY 87 :  +*
JUN 87 :    *
JUL 87 :  + *
AUG 87 :   +*
SEP 87 :   +*
OCT 87 :   +*
NOV 87 :    + *
DEC 87 :   + *
JAN 88 :   +*
FEB 88 :   +*
MAR 88 :   +*
APR 88 :   *
MAY 88 :  +*
JUN 88 :   *
JUL 88 :    *+
AUG 88 :     *
SEP 88 :   +*
OCT 88 :   *
NOV 88 :   +*
DEC 88 :   *


* = simulated water levels
+ = observed water levels
M = observed data missing
    (if observed agree with simulated, only a * is printed)
```

<u>Comments:</u> none

STATION: HE-853   LAYER: 2   ROW: 19   COLUMN: 27

Water Levels in Feet, Datum NGVD

```
      21        31        41        51        61        71
       +.........+.........+.........+.........+.........+
JAN 86 :   *    +
FEB 86 :   *   +
MAR 86 :   *   +
APR 86 :  *    +
MAY 86 M  *
JUN 86 M    *
JUL 86 M    *
AUG 86 M    *
SEP 86 M    *
OCT 86 :    *   +
NOV 86 :   *   +
DEC 86 :    *  +
JAN 87 :    *  +
FEB 87 :    *  +
MAR 87 :    *  +
APR 87 :   *  +
MAY 87 :   *   +
JUN 87 :   *   +
JUL 87 :    * +
AUG 87 :    * +
SEP 87 :    *  +
OCT 87 :    *  +
NOV 87 :     *  +
DEC 87 :    *  +
JAN 88 :   *  +
FEB 88 :   *   +
MAR 88 :   *  +
APR 88 :   * +
MAY 88 :   *+
JUN 88 :   *
JUL 88 :    *+
AUG 88 :     *+
SEP 88 :    *+
OCT 88 :   *+
NOV 88 :   *+
DEC 88 :   *+
```

* = simulated water levels
+ = observed water levels
M = observed data missing
(if observed agrees with simulated, only a * is printed)

Comments: none

```
STATION:   HE-855        LAYER: 2    ROW: 25      COLUMN: 34

          Water Levels in Feet, Datum NGVD

      19        29        39        49        59        69
       +.........+.........+.........+.........+.........+
JAN 86 :    *+
FEB 86 :   * +
MAR 86 :   * +
APR 86 :  *  +
MAY 86 : * +
JUN 86 :  + *
JUL 86 :   *  +
AUG 86 :    *  +
SEP 86 :   *  +
OCT 86 :    *  +
NOV 86 :   *  +
DEC 86 :   *  +
JAN 87 :   *  +
FEB 87 :   *  +
MAR 87 :    *  +
APR 87 :  *   +
MAY 87 : *  +
JUN 87 :  * +
JUL 87 :  *
AUG 87 :  *+
SEP 87 :   *   +
OCT 87 :   *  +
NOV 87 :    *  +
DEC 87 :   *  +
JAN 88 :   *  +
FEB 88 :   *  +
MAR 88 :  *   +
APR 88 :  *  +
MAY 88 : *   +
JUN 88 :  * +
JUL 88 :   *  +
AUG 88 :    *   +
SEP 88 :   * +
OCT 88 :  * +
NOV 88 :   *
DEC 88 :  *+


* = simulated water levels
+ = observed water levels
M = observed data missing
    (if observed agrees with simulated, only a * is printed)
```

Comments: none

STATION: HE-859   LAYER: 2   ROW: 29   COLUMN: 37

Water Levels in Feet, Datum NGVD

```
      14        24        34        44        54        64
       +.........+.........+.........+.........+.........+
JAN 86 :     * +
FEB 86 :    *  +
MAR 86 :    * +
APR 86 :  *    +
MAY 86 : *   +
JUN 86 :    +*
JUL 86 :     *
AUG 86 :     *  +
SEP 86 :     * +
OCT 86 :     * +
NOV 86 :    * +
DEC 86 :    *  +
JAN 87 :    *  +
FEB 87 :    * +
MAR 87 :     *  +
APR 87 :   *  +
MAY 87 :  *  +
JUN 87 :   *  +
JUL 87 :    * +
AUG 87 :   *  +
SEP 87 :     *  +
OCT 87 :    *  +
NOV 87 :     *  +
DEC 87 :    *  +
JAN 88 :    *  +
FEB 88 :    *  +
MAR 88 :   *   +
APR 88 :  *    +
MAY 88 :  *   +
JUN 88 :    *   +
JUL 88 :    *    +
AUG 88 :     *    +
SEP 88 M    *
OCT 88 :   *  +
NOV 88 :    *  +
DEC 88 :   *  +
```

* = simulated water levels
+ = observed water levels
M = observed data missing
    (if observed agrees with simulated, only a * is printed)

Comments: none

```
STATION:   HE-861        LAYER: 2    ROW: 40      COLUMN: 48

         Water Levels in Feet, Datum NGVD

       7         17        27        37        47        57
       +.........+.........+.........+.........+.........+
JAN 86 :    +*
FEB 86 :    + *
MAR 86 :    +  *
APR 86 :     + *
MAY 86 :   +   *
JUN 86 :    +    *
JUL 86 :     +   *
AUG 86 :      +   *
SEP 86 :     +   *
OCT 86 :     +   *
NOV 86 :    +   *
DEC 86 :     +   *
JAN 87 :    +    *
FEB 87 :    +   *
MAR 87 :     +   *
APR 87 :    +   *
MAY 87 :   +    *
JUN 87 :    +   *
JUL 87 :    +   *
AUG 87 :   +    *
SEP 87 :    +    *
OCT 87 :    +    *
NOV 87 :     +    *
DEC 87 :    +    *
JAN 88 :    +    *
FEB 88 :    +   *
MAR 88 :   +    *
APR 88 :   +    *
MAY 88 :  +     *
JUN 88 :   +    *
JUL 88 :   +     *
AUG 88 :    +     *
SEP 88 :   +     *
OCT 88 :  +     *
NOV 88 :  +     *
DEC 88 :   +    *
```

* = simulated water levels
+ = observed water levels
M = observed data missing
(if observed agree with simulated, only a * is printed)

<u>Comments:</u> Observed water levels exhibit high variation coefficient.

```
STATION:    HE-868        LAYER: 2    ROW: 36       COLUMN: 41

          Water Levels in Feet, Datum NGVD

      12        22        32        42        52        62
       +.........+.........+.........+.........+.........+
JAN 86 :    *  +
FEB 86 :    *  +
MAR 86 :    * +
APR 86 :   *   +
MAY 86 :   * +
JUN 86 :     *+
JUL 86 :     * +
AUG 86 :     * +
SEP 86 :     *+
OCT 86 :     *+
NOV 86 :    * +
DEC 86 :    * +
JAN 87 :    * +
FEB 87 :    * +
MAR 87 :    ** +
APR 87 :   * +
MAY 87 :  *  +
JUN 87 :   *  +
JUL 87 :    * +
AUG 87 :   * +
SEP 87 :     * +
OCT 87 :     *+
NOV 87 :     *  +
DEC 87 :    * +
JAN 88 :    * +
FEB 88 :    * +
MAR 88 :    *  +
APR 88 :   *  +
MAY 88 :  *  +
JUN 88 :    * +
JUL 88 :     *  +
AUG 88 :     * +
SEP 88 M     *
OCT 88 :   *+
NOV 88 :    *+
DEC 88 :   *+


* = simulated water levels
+ = observed water levels
M = observed data missing
    (if observed agrees with simulated, only a * is printed)
```

Comments: none

```
STATION:   HE-1028       LAYER: 2    ROW: 20     COLUMN: 24

         Water Levels in Feet, Datum NGVD

      22        32        42        52        62        72
       +.........+.........+.........+.........+.........+
JAN 86 M   *
FEB 86 M   *
MAR 86 M   *
APR 86 M   *
MAY 86 M  *
JUN 86 M     *
JUL 86 M     *
AUG 86 M    *
SEP 86 M    *
OCT 86 M    *
NOV 86 M    *
DEC 86 M    *
JAN 87 M    *
FEB 87 M    *
MAR 87 M     *
APR 87 M    *
MAY 87 M    *
JUN 87 M    *
JUL 87 M    *
AUG 87 M     *
SEP 87 M     *
OCT 87 :     *+
NOV 87 :     *+
DEC 87 :    *+
JAN 88 M    *
FEB 88 :   * +
MAR 88 :   *+
APR 88 :   *+
MAY 88 :   +*
JUN 88 :   +*
JUL 88 :    *
AUG 88 :      *
SEP 88 :    *+
OCT 88 :   *+
NOV 88 :    *
DEC 88 :   *+


* = simulated water levels
+ = observed water levels
M = observed data missing
    (if observed agrees with simulated, only a * is printed)
```

<u>Comments:</u> none

STATION: HE-1029 LAYER: 2 ROW: 20 COLUMN: 24

Water Levels in Feet, Datum NGVD

```
      22        32        42        52        62        72
       +.........+.........+.........+.........+.........+
JAN 86 M   *
FEB 86 M   *
MAR 86 M   *
APR 86 M   *
MAY 86 M  *
JUN 86 M     *
JUL 86 M     *
AUG 86 M    *
SEP 86 M    *
OCT 86 M    *
NOV 86 M    *
DEC 86 M    *
JAN 87 M    *
FEB 87 M    *
MAR 87 M     *
APR 87 M    *
MAY 87 M    *
JUN 87 M    *
JUL 87 M    *
AUG 87 M     *
SEP 87 M     *
OCT 87 :     *+
NOV 87 :     *+
DEC 87 :    * +
JAN 88 M    *
FEB 88 :   * +
MAR 88 :   *+
APR 88 :   *+
MAY 88 :    *
JUN 88 :   +*
JUL 88 :    * +
AUG 88 :     +*
SEP 88 :    *
OCT 88 :   *+
NOV 88 :    *
DEC 88 :   *+
```

* = simulated water levels
+ = observed water levels
M = observed data missing
(if observed agrees with simulated, only a * is printed)

Comments: none

```
STATION:   HE-1037      LAYER: 2    ROW: 23      COLUMN: 31

           Water Levels in Feet, Datum NGVD

      18        28        38        48        58        68
       +.........+.........+.........+.........+.........+
JAN 86 M       *
FEB 86 M      *
MAR 86 M      *
APR 86 M     *
MAY 86 M     *
JUN 86 M       *
JUL 86 M       *
AUG 86 M        *
SEP 86 M       *
OCT 86 M       *
NOV 86 M      *
DEC 86 M       *
JAN 87 M       *
FEB 87 M      *
MAR 87 M       *
APR 87 M      *
MAY 87 M     *
JUN 87 M      *
JUL 87 M      *
AUG 87 M      *
SEP 87 M       *
OCT 87 :     + *
NOV 87 :      + *
DEC 87 :     + *
JAN 88 :     +*
FEB 88 :     +*
MAR 88 :     +*
APR 88 :    +*
MAY 88 :     *
JUN 88 :    + *
JUL 88 :      +*
AUG 88 :      + *
SEP 88 M       *
OCT 88 :  +   *
NOV 88 :    + *
DEC 88 :   +  *


* = simulated water levels
+ = observed water levels
M = observed data missing
    (if observed agrees with simulated, only a * is printed)
```

Comments: none

STATION: HE-1042 LAYER: 2 ROW: 35 COLUMN: 30

Water Levels in Feet, Datum NGVD

```
      14        24        34        44        54        64
       +.........+.........+.........+.........+.........+
JAN 86 M   *
FEB 86 M   *
MAR 86 M   *
APR 86 M  *
MAY 86 M  *
JUN 86 M      *
JUL 86 M     *
AUG 86 M      *
SEP 86 M      *
OCT 86 M      *
NOV 86 M     *
DEC 86 M     *
JAN 87 M     *
FEB 87 M     *
MAR 87 M     *
APR 87 M    *
MAY 87 M    *
JUN 87 M     *
JUL 87 M     *
AUG 87 M     *
SEP 87 M      *
OCT 87 :      *+
NOV 87 :      * +
DEC 87 :     * +
JAN 88 :     * +
FEB 88 :     * +
MAR 88 :    *  +
APR 88 :   * +
MAY 88 :   *+
JUN 88 :    +*
JUL 88 M      *
AUG 88 M       *
SEP 88 :      *+
OCT 88 :     *
NOV 88 :     *
DEC 88 :    *+
```

* = simulated water levels
+ = observed water levels
M = observed data missing
(if observed agrees with simulated, only a * is printed)

<u>Comments:</u> none

STATION: HE-1063   LAYER: 2   ROW: 40   COLUMN: 35

Water Levels in Feet, Datum NGVD

```
      11        21        31        41        51        61
       +.........+.........+.........+.........+.........+
JAN 86 M    *
FEB 86 M    *
MAR 86 M    *
APR 86 M   *
MAY 86 M   *
JUN 86 M      *
JUL 86 M      *
AUG 86 M       *
SEP 86 M      *
OCT 86 M       *
NOV 86 M      *
DEC 86 M      *
JAN 87 M      *
FEB 87 M      *
MAR 87 M       *
APR 87 M     *
MAY 87 M     *
JUN 87 M     *
JUL 87 M     *
AUG 87 M     *
SEP 87 M       *
OCT 87 :     +*
NOV 87 :      +*
DEC 87 :     +*
JAN 88 :     +*
FEB 88 :     +*
MAR 88 :     +*
APR 88 :   + *
MAY 88 :   + *
JUN 88 :  +   *
JUL 88 :     +*
AUG 88 :     + *
SEP 88 :     +*
OCT 88 :     +*
NOV 88 :     +*
DEC 88 :     *
```

* = simulated water levels
\+ = observed water levels
M = observed data missing
    (if observed agrees with simulated, only a * is printed

<u>Comments:</u> none

```
STATION:   HE-1068       LAYER: 2    ROW: 14      COLUMN: 39

          Water Levels in Feet, Datum NGVD

      10        20        30        40        50        60
       +.........+.........+.........+.........+.........+
JAN 86 M       *
FEB 86 M       *
MAR 86 M       *
APR 86 M      *
MAY 86 M     *
JUN 86 M       *
JUL 86 M        *
AUG 86 M        *
SEP 86 M       *
OCT 86 M        *
NOV 86 M       *
DEC 86 M       *
JAN 87 M       *
FEB 87 M       *
MAR 87 M       *
APR 87 M      *
MAY 87 M     *
JUN 87 M      *
JUL 87 M      *
AUG 87 M       *
SEP 87 M       *
OCT 87 :      +*
NOV 87 :       +*
DEC 87 :      +*
JAN 88 :      +*
FEB 88 :    + *
MAR 88 :      *
APR 88 :     *+ *
MAY 88 :     *
JUN 88 :      *
JUL 88 :       *
AUG 88 :       +*
SEP 88 M       *
OCT 88 :  +   *
NOV 88 :   +   *
DEC 88 :  +   *


* = simulated water levels
+ = observed water levels
M = observed data missing
    (if observed agree with simulated, only a * is printed)
```

<u>Comments:</u> none

STATION: HE-1075 LAYER: 2 ROW: 23 COLUMN: 46

Water Levels in Feet, Datum NGVD

```
       7        17        27        37        47        57
       +.........+.........+.........+.........+.........+
JAN 86 M       *
FEB 86 M       *
MAR 86 M       *
APR 86 M       *
MAY 86 M       *
JUN 86 M         *
JUL 86 M         *
AUG 86 M         *
SEP 86 M         *
OCT 86 M         *
NOV 86 M        *
DEC 86 M         *
JAN 87 M        *
FEB 87 M        *
MAR 87 M         *
APR 87 M        *
MAY 87 M       *
JUN 87 M        *
JUL 87 M         *
AUG 87 M        *
SEP 87 M         *
OCT 87 :   +     *
NOV 87 :  +       *
DEC 87 :   +     *
JAN 88 :   +     *
FEB 88 :   +    *
MAR 88 :   +    *
APR 88 :    +   *
MAY 88 :    +  *
JUN 88 :   +    *
JUL 88 :   +     *
AUG 88 :   +     *
SEP 88 :    +   *
OCT 88 :    +   *
NOV 88 :   +    *
DEC 88 :   +    *
```

* = simulated water levels
+ = observed water levels
M = observed data missing
(if observed agree with simulated, only a * is printed)

<u>Comments:</u> Well located in Everglades Agricultural Area, water levels artificially maintained.

STATION: C-1074 LAYER: 2 ROW: 31 COLUMN: 25

Water Levels in Feet, Datum NGVD

```
      15        25        35        45        55        65
       +.........+.........+.........+.........+.........+
JAN 86 :     *   +
FEB 86 :      * +
MAR 86 :     *  +
APR 86 M   *
MAY 86 M  *
JUN 86 M       *
JUL 86 M       *
AUG 86 M       *
SEP 86 M       *
OCT 86 M       *
NOV 86 M     *
DEC 86 M     *
JAN 87 :     *   +
FEB 87 :       * +
MAR 87 :      *  +
APR 87 :    *   +
MAY 87 :   *    +
JUN 87 :      * +
JUL 87 :      *+
AUG 87 :       *+
SEP 87 :       *+
OCT 87 :       *+
NOV 87 :      * +
DEC 87 :     *   +
JAN 88 :     *  +
FEB 88 :      * +
MAR 88 :     *  +
APR 88 :   *  +
MAY 88 :   *  +
JUN 88 :     * +
JUL 88 :       *
AUG 88 :        *
SEP 88 :       *+
OCT 88 :      *
NOV 88 :     *
DEC 88 :    *
```

* = simulated water levels
+ = observed water levels
M = observed data missing
(if observed agrees with simulated, only a * is printed)

<u>Comments:</u> none

```
STATION:    C-1076          LAYER: 2    ROW: 28      COLUMN: 19

          Water Levels in Feet, Datum NGVD

      21        31        41        51        61        71
       +.........+.........+.........+.........+.........+
JAN 86 :     *+
FEB 86 :    * +
MAR 86 :    * +
APR 86 :  *   +
MAY 86 M *
JUN 86 M    *
JUL 86 M    *
AUG 86 M    *
SEP 86 M    *
OCT 86 M   *
NOV 86 M    *
DEC 86 M    *
JAN 87 :    * +
FEB 87 :    *  +
MAR 87 :     * +
APR 87 :   *  +
MAY 87 :   *  +
JUN 87 :   * +
JUL 87 :   * +
AUG 87 :    *+
SEP 87 :    * +
OCT 87 :    * +
NOV 87 :     * +
DEC 87 :    * +
JAN 88 :   *  +
FEB 88 :   *  +
MAR 88 M   *
APR 88 M  *
MAY 88 M  *
JUN 88 M  *
JUL 88 M   *
AUG 88 M    *
SEP 88 M    *
OCT 88 M   *
NOV 88 M  *
DEC 88 M  *


* = simulated water levels
+ = observed water levels
M = observed data missing
    (if observed agree with simulated, only a * is printed)
```

Comments: none

STATION: C-687 LAYER: 3 ROW: 31 COLUMN: 12

Water Levels in Feet, Datum NGVD

```
       7        17        27        37        47        57
       +.........+.........+.........+.........+.........+
JAN 86 :       +        *
FEB 86 :      +        *
MAR 86 :         +     *
APR 86 :           + *
MAY 86 :   +        *
JUN 86 :      +       *
JUL 86 :              *
AUG 86 :             +*
SEP 86 :            + *
OCT 86 :          +   *
NOV 86 :        +     *
DEC 86 :          +   *
JAN 87 :           +  *
FEB 87 :           +  *
MAR 87 :              +*
APR 87 :     +       *
MAY 87 :             *
JUN 87 :             +*
JUL 87 :              *
AUG 87 :             +*
SEP 87 :              *
OCT 87 :              *
NOV 87 :               *
DEC 87 :            +  *
JAN 88 :            +  *
FEB 88 :          +   *
MAR 88 :     +        *
APR 88 :     +       *
MAY 88 :            *
JUN 88 :          +  *
JUL 88 :              *
AUG 88 :             +*
SEP 88 :          +   *
OCT 88 :      +      *
NOV 88 :      +      *
DEC 88 :  +          *
```

* = simulated water levels
\+ = observed water levels
M = observed data missing
(if observed agree with simulated, only a * is printed)

<u>Comments:</u> none

```
STATION:   L-2192         LAYER: 3    ROW: 29      COLUMN: 2

          Water Levels in Feet, Datum NGVD

       7         17        27        37        47        57
       +.........+.........+.........+.........+.........+
JAN 86 :    +  *
FEB 86 :    +  *
MAR 86 :    +  *
APR 86 :  +    *
MAY 86 :      +*
JUN 86 :       *+
JUL 86 :        * +
AUG 86 :        *+
SEP 86 :      + *
OCT 86 :     + *
NOV 86 :    +  *
DEC 86 :       *  +
JAN 87 :     + *
FEB 87 :      +*
MAR 87 :      + *
APR 87 :     + *
MAY 87 :       *
JUN 87 :       *
JUL 87 :        *
AUG 87 :        *
SEP 87 :        *
OCT 87 :        *
NOV 87 :        *
DEC 87 M        *
JAN 88 :      +*
FEB 88 :     + *
MAR 88 :     + *
APR 88 :  +    *
MAY 88 :  +    *
JUN 88 :    +  *
JUL 88 :     + *
AUG 88 :        *+
SEP 88 :        *
OCT 88 :    +  *
NOV 88 :   +   *
DEC 88 :  +    *


* = simulated water levels
+ = observed water levels
M = observed data missing
    (if observed agree with simulated, only a * is printed)
```

<u>Comments:</u> none

STATION: L-731 LAYER: 3 ROW: 29 COLUMN: 6

Water Levels in Feet, Datum NGVD

```
      -8         2        12        22        32        42
       +.........+.........+.........+.........+.........+
JAN 86 :              +             *
FEB 86 :             +              *
MAR 86 :                    +      *
APR 86 :      +                   *
MAY 86 :     +                   *
JUN 86 :                         +  *
JUL 86 :                       +    *
AUG 86 :                            *
SEP 86 :                +           *
OCT 86 :            +               *
NOV 86 :       +                   *
DEC 86 :                 +          *
JAN 87 :                    +       *
FEB 87 :                      +     *
MAR 87 :                     +      *
APR 87 :  +                       *
MAY 87 :                         +*
JUN 87 :                      +     *
JUL 87 :                     +      *
AUG 87 :           +                *
SEP 87 :               +             *
OCT 87 :            +                *
NOV 87 :                    +        *
DEC 87 :                    +        *
JAN 88 :                       +    *
FEB 88 :                  +         *
MAR 88 :                    +      *
APR 88 :    +                     *
MAY 88 :              +          *
JUN 88 :     +                     *
JUL 88 :                       +   *
AUG 88 :                            *
SEP 88 :             +              *
OCT 88 :    +                      *
NOV 88 :        +                  *
DEC 88 :     +                     *
```

```
* = simulated water levels
+ = observed water levels
M = observed data missing
    (if observed agree with simulated, only a * is printed)
```

Comments: Unreliable observed data.

STATION: C-531 LAYER: 3 ROW: 27 COLUMN: 13

Water Levels in Feet, Datum NGVD

```
       8        18        28        38        48        58
       +.........+.........+.........+.........+.........+
JAN 86 :            +    *
FEB 86 :           +    *
MAR 86 :        +    *
APR 86 :         *    +
MAY 86 :    + *
JUN 86 :           +  *
JUL 86 :            *     +
AUG 86 :            *        +
SEP 86 :              *  +
OCT 86 :           *    +
NOV 86 :         *+
DEC 86 :            *    +
JAN 87 :            *+
FEB 87 :              *     +
MAR 87 :             *       +
APR 87 :        *
MAY 87 :       *            +
JUN 87 :           + *
JUL 87 :           *  +
AUG 87 M           *
SEP 87 M              *
OCT 87 :           *      +
NOV 87 M            *
DEC 87 M             *
JAN 88 M             *
FEB 88 M             *
MAR 88 M          *
APR 88 :   +   *
MAY 88 M     *
JUN 88 M            *
JUL 88 M           *
AUG 88 M             *
SEP 88 :     +        *
OCT 88 :  +        *
NOV 88 :         * +
DEC 88 :   +       *
```

* = simulated water levels
\+ = observed water levels
M = observed data missing
(if observed agree with simulated, only a * is printed)

<u>Comments:</u> none

STATION: L-2215   LAYER: 3   ROW: 24   COLUMN: 5

Water Levels in Feet, Datum NGVD

```
       7        17        27        37        47        57
       +.........+.........+.........+.........+.........+
JAN 86 :         +*
FEB 86 :         + *
MAR 86 :          *
APR 86 M        *
MAY 86 :    +  *
JUN 86 :           +*
JUL 86 :            *
AUG 86 :           *   +
SEP 86 :            * +
OCT 86 :          *+
NOV 86 :         *
DEC 86 :        +  *
JAN 87 :           *
FEB 87 :           +*
MAR 87 :           *
APR 87 :        *+
MAY 87 :        *        +
JUN 87 :          +*
JUL 87 :           *+
AUG 87 :          *+
SEP 87 :           +*
OCT 87 :           * +
NOV 87 :           *   +
DEC 87 :           *
JAN 88 :           *
FEB 88 :        +  *
MAR 88 :          *+
APR 88 :    +   *
MAY 88 :  +    *
JUN 88 :     +     *
JUL 88 :         +*
AUG 88 :           *   +
SEP 88 :           +*
OCT 88 :      +  *
NOV 88 :      +  *
DEC 88 :     +    *
```

* = simulated water levels
\+ = observed water levels
M = observed data missing
    (if observed agree with simulated, only a * is printed)

Comments: none

STATION: HE-529 LAYER: 3 ROW: 22 COLUMN: 16

Water Levels in Feet, Datum NGVD

```
      14        24        34        44        54        64
       +.........+.........+.........+.........+.........+
JAN 86 :            +*
FEB 86 :  +          *
MAR 86 :            +*
APR 86 :          + *
MAY 86 :           *+
JUN 86 :              *+
JUL 86 :              *
AUG 86 :              *+
SEP 86 :              *
OCT 86 :             * +
NOV 86 :            * +
DEC 86 :             * +
JAN 87 :             * +
FEB 87 :             *+
MAR 87 :              *
APR 87 :            *+
MAY 87 :             *+
JUN 87 :             *
JUL 87 :             +*
AUG 87 M              *
SEP 87 M              *
OCT 87 :              *
NOV 87 M              *
DEC 87 M             *
JAN 88 M             *
FEB 88 M             *
MAR 88 M            *
APR 88 :            *+
MAY 88 M            *
JUN 88 M            *
JUL 88 M             *
AUG 88 M               *
SEP 88 :             +*
OCT 88 :           +*
NOV 88 :            *
DEC 88 :           +*
```

* = simulated water levels
\+ = observed water levels
M = observed data missing
(if observed agree with simulated, only a * is printed)

<u>Comments:</u> none

STATION: L-1963   LAYER: 3   ROW: 22   COLUMN: 4

Water Levels in Feet, Datum NGVD

```
       9         19        29        39        49        59
       +.........+.........+.........+.........+.........+
JAN 86 :       *
FEB 86 :       *
MAR 86 :      * +
APR 86 :    *
MAY 86 :   *       +
JUN 86 :        *  +
JUL 86 :       *     +
AUG 86 :       *   +
SEP 86 :        *+
OCT 86 :      *+
NOV 86 :     *  +
DEC 86 :       *     +
JAN 87 :       *  +
FEB 87 :        * +
MAR 87 :       * +
APR 87 :    *  +
MAY 87 :    *     +
JUN 87 :      +*
JUL 87 :       *  +
AUG 87 :      * +
SEP 87 :        * +
OCT 87 :       *   +
NOV 87 :      *     +
DEC 87 :       * +
JAN 88 :       *
FEB 88 :       *+
MAR 88 :      * +
APR 88 :   +*
MAY 88 :  +*
JUN 88 :     + *
JUL 88 :      *  +
AUG 88 :       *     +
SEP 88 :        *
OCT 88 :    + *
NOV 88 :     *+
DEC 88 :     +*
```

* = simulated water levels
+ = observed water levels
M = observed data missing
    (if observed agree with simulated, only a * is printed)

<u>Comments:</u> none

STATION: L-2186 LAYER: 3 ROW: 22 COLUMN: 4

Water Levels in Feet, Datum NGVD

```
      10        20        30        40        50        60
       +.........+.........+.........+.........+.........+
JAN 86 M      *
FEB 86 M      *
MAR 86 M     *
APR 86 M   *
MAY 86 :  *
JUN 86 M       *
JUL 86 M      *
AUG 86 M      *
SEP 86 M       *
OCT 86 :     *  +
NOV 86 M    *
DEC 86 M      *
JAN 87 M      *
FEB 87 M       *
MAR 87 M      *
APR 87 :   *  +
MAY 87 M   *
JUN 87 M      *
JUL 87 M      *
AUG 87 M     *
SEP 87 M       *
OCT 87 M      *
NOV 87 :     *     +
DEC 87 M      *
JAN 88 M      *
FEB 88 M      *
MAR 88 M     *
APR 88 :  +*
MAY 88 M  *
JUN 88 M      *
JUL 88 M     *
AUG 88 M      *
SEP 88 :       *
OCT 88 :   + *
NOV 88 :    *+
DEC 88 :    +*
```

```
* = simulated water levels
+ = observed water levels
M = observed data missing
    (if observed agree with simulated, only a * is plotted)
```

<u>Comments:</u> Unreliable observed data.

```
STATION:   L-1965        LAYER: 3    ROW: 21      COLUMN:  6

          Water Levels in Feet, Datum NGVD

      -5         5        15        25        35        45
       +.........+.........+.........+.........+.........+
JAN 86 :              *      +
FEB 86 :               *       +
MAR 86 :          *             +
APR 86 M     *
MAY 86 :  *               +
JUN 86 :                *          +
JUL 86 :            *             +
AUG 86 :            *               +
SEP 86 :                *        +
OCT 86 :          *             +
NOV 86 :         *          +
DEC 86 :             *         +
JAN 87 :              *          +
FEB 87 :                *         +
MAR 87 :           *             +
APR 87 :      *               +
MAY 87 :   *                       +
JUN 87 :               *      +
JUL 87 :            *             +
AUG 87 :          *          +
SEP 87 :                *       +
OCT 87 :           *              +
NOV 87 :          *                 +
DEC 87 :             *+
JAN 88 :              * +
FEB 88 :                *      +
MAR 88 :           *           +
APR 88 :     *           +
MAY 88 :  *           +
JUN 88 :               *+
JUL 88 :           *         +
AUG 88 :           *               +
SEP 88 :                *  +
OCT 88 :         *      +
NOV 88 :        *          +
DEC 88 :            *+


* = simulated water levels
+ = observed water levels
M = observed data missing
    (if observed agree with simulated, only a * is plotted)
```

Comments: none

```
STATION:   HE-556        LAYER: 3    ROW: 16      COLUMN: 15

          Water Levels in Feet, Datum NGVD

      11        21        31        41        51        61
       +.........+.........+.........+.........+.........+
JAN 86 :       *
FEB 86 :       + *
MAR 86 :      * +
APR 86 :   *+
MAY 86 :   *+
JUN 86 :        + *
JUL 86 :         +*
AUG 86 :          *+
SEP 86 :          *+
OCT 86 :         * +
NOV 86 :      *  +
DEC 86 :       * +
JAN 87 :        *+
FEB 87 :         *
MAR 87 :        * +
APR 87 :    *      +
MAY 87 :     * +
JUN 87 :        +*
JUL 87 :         *
AUG 87 M         *
SEP 87 M          *
OCT 87 :          * +
NOV 87 M        *
DEC 87 M       *
JAN 88 M        *
FEB 88 M         *
MAR 88 M      *
APR 88 :   *  +
MAY 88 :   +*
JUN 88 M         *
JUL 88 M        *
AUG 88 M          *
SEP 88 :  +       *
OCT 88 :   +    *
NOV 88 :     +*
DEC 88 :    + *


* = simulated water levels
+ = observed water levels
M = observed data missing
    (if observed agree with simulated, only a * is printed)
```

Comments: none

STATION: L-727 LAYER: 3 ROW: 15 COLUMN: 5

Water Levels in Feet, Datum NGVD

```
       8        18        28        38        48        58
       +.........+.........+.........+.........+.........+
JAN 86 :     *
FEB 86 :     *
MAR 86 :    * +
APR 86 M  *
MAY 86 :  * +
JUN 86 :     +*
JUL 86 :      *+
AUG 86 :      * +
SEP 86 :      *+
OCT 86 :     *+
NOV 86 :    * +
DEC 86 :     *+
JAN 87 M     *
FEB 87 M      *
MAR 87 M     *
APR 87 :   *  +
MAY 87 M   *
JUN 87 M     *
JUL 87 M     *
AUG 87 M     *
SEP 87 M      *
OCT 87 :      *+
NOV 87 M     *
DEC 87 M     *
JAN 88 M     *
FEB 88 M      *
MAR 88 M    *
APR 88 :   *+
MAY 88 M  *
JUN 88 M     *
JUL 88 M     *
AUG 88 M      *
SEP 88 :      *
OCT 88 :     *
NOV 88 :    *+
DEC 88 :    *+
```

* = simulated water levels
+ = observed water levels
M = observed data missing
(if observed agree with simulated, only a * is printed)

Comments: none

STATION: HE-559 LAYER: 3 ROW: 15 COLUMN: 10

Water Levels in Feet, Datum NGVD

```
      13        23        33        43        53        63
       +.........+.........+.........+.........+.........+
JAN 86 :     *
FEB 86 :     *
MAR 86 :    *+
APR 86 :  *  +
MAY 86 :  * +
JUN 86 :    + *
JUL 86 :      *+
AUG 86 :      *+
SEP 86 :      *+
OCT 86 :     *+
NOV 86 :    * +
DEC 86 :     *+
JAN 87 :    *+
FEB 87 :     *+
MAR 87 :     *+
APR 87 :   *  +
MAY 87 :   * +
JUN 87 :     *
JUL 87 :     *+
AUG 87 :     * +
SEP 87 :      *
OCT 87 :      *+
NOV 87 :      *+
DEC 87 :     *+
JAN 88 :     *
FEB 88 :     *+
MAR 88 :    * +
APR 88 :  * +
MAY 88 :  *+
JUN 88 :    *
JUL 88 :    *+
AUG 88 :      *+
SEP 88 :   + *
OCT 88 :   +*
NOV 88 :    *
DEC 88 :    *
```

```
* = simulated water levels
+ = observed water levels
M = observed data missing
    (if observed agree with simulated, only a * is printed)
```

<u>Comments:</u> none

STATION: HE-560   LAYER: 3   ROW: 15   COLUMN: 10

Water Levels in Feet, Datum NGVD

```
      13        23        33        43        53        63
       +.........+.........+.........+.........+.........+
JAN 86 :     * +
FEB 86 :     *+
MAR 86 :    * +
APR 86 :  *    +
MAY 86 : *    +
JUN 86 :     +*
JUL 86 :      *+
AUG 86 :      * +
SEP 86 :      * +
OCT 86 :     * +
NOV 86 :    *  +
DEC 86 :     * +
JAN 87 :    *  +
FEB 87 :     * +
MAR 87 :     * +
APR 87 :   *   +
MAY 87 :   *   +
JUN 87 :     *+
JUL 87 :     * +
AUG 87 :     * +
SEP 87 :      *+
OCT 87 :      * +
NOV 87 :      * +
DEC 87 :     * +
JAN 88 :     * +
FEB 88 :     * +
MAR 88 :    *  +
APR 88 :  *   +
MAY 88 :  *  +
JUN 88 :    *+
JUL 88 :    * +
AUG 88 :      * +
SEP 88 :     *
OCT 88 :    *+
NOV 88 :    * +
DEC 88 :    * +
```

* = simulated water levels
+ = observed water levels
M = observed data missing
(if observed agree with simulated, only a * is printed)

Comments: none

STATION: L-2187   LAYER: 3   ROW: 15   COLUMN: 5

Water Levels in Feet, Datum NGVD

```
       8        18        28        38        48        58
       +.........+.........+.........+.........+.........+
JAN 86 :     *
FEB 86 :     *
MAR 86 :    * +
APR 86 :  * +
MAY 86 :  *    +
JUN 86 :      *+
JUL 86 :      * +
AUG 86 :      *+
SEP 86 :      *
OCT 86 :     *
NOV 86 :    * +
DEC 86 :     *  +
JAN 87 :     *+
FEB 87 :      *
MAR 87 :     *+
APR 87 :   *  +
MAY 87 :   *  +
JUN 87 :     *
JUL 87 :     * +
AUG 87 :     *+
SEP 87 :      *
OCT 87 :      *+
NOV 87 :     *  +
DEC 87 :     *
JAN 88 :     *+
FEB 88 :      *
MAR 88 :    * +
APR 88 M   *
MAY 88 M  *
JUN 88 M     *
JUL 88 M     *
AUG 88 M      *
SEP 88 M      *
OCT 88 M     *
NOV 88 M    *
DEC 88 M    *
```

* = simulated water levels
\+ = observed water levels
M = observed data missing
(if observed agree with simulated, only a * is printed)

<u>Comments:</u> none

STATION: HE-557 LAYER: 3 ROW: 11 COLUMN: 9

Water Levels in Feet, Datum NGVD

```
       1        11        21        31        41        51
       +.........+.........+.........+.........+.........+
JAN 86 :        *  +
FEB 86 :         * +
MAR 86 :      *    +
APR 86 :   *       +
MAY 86 : *       +
JUN 86 :         +*
JUL 86 :         *  +
AUG 86 :         *   +
SEP 86 :          *  +
OCT 86 :        *   +
NOV 86 :      *    +
DEC 86 :       *    +
JAN 87 :        *  +
FEB 87 :         *  +
MAR 87 :       *   +
APR 87 :   *      +
MAY 87 :   *      +
JUN 87 :       + *
JUL 87 :         *  +
AUG 87 :        *   +
SEP 87 :          * +
OCT 87 :        *    +
NOV 87 :        *    +
DEC 87 :        *    +
JAN 88 :         *+
FEB 88 :         * +
MAR 88 :       *   +
APR 88 :    *    +
MAY 88 :  * +
JUN 88 :        +*
JUL 88 :        *  +
AUG 88 :        *  +
SEP 88 :        + *
OCT 88 :      +*
NOV 88 :      *  +
DEC 88 :      *+
```

* = simulated water levels
+ = observed water levels
M = observed data missing
(if observed agree with simulated, only a * is printed)

<u>Comments:</u> none

```
STATION:   L-1977        LAYER: 3   ROW: 11     COLUMN:  3

          Water Levels in Feet, Datum NGVD

       2        12        22        32        42        52
       +.........+.........+.........+.........+.........+
JAN 86 :      * +
FEB 86 :       *+
MAR 86 :     *  +
APR 86 M  *
MAY 86 :  *   +
JUN 86 :        *+
JUL 86 :        *+
AUG 86 :        * +
SEP 86 :        *+
OCT 86 :       *+
NOV 86 :     *  +
DEC 86 :     *  +
JAN 87 :      *  +
FEB 87 :       *+
MAR 87 :     *  +
APR 87 :   *   +
MAY 87 :    *   +
JUN 87 :       *+
JUL 87 :       * +
AUG 87 :       *+
SEP 87 :        *+
OCT 87 :        *+
NOV 87 :      *   +
DEC 87 :      *  +
JAN 88 :       * +
FEB 88 :        *+
MAR 88 :     *   +
APR 88 :  *    +
MAY 88 :   *  +
JUN 88 :       *+
JUL 88 :       * +
AUG 88 :        *   +
SEP 88 :        *+
OCT 88 :       *+
NOV 88 :     *   +
DEC 88 :     *  +


* = simulated water levels
+ = observed water levels
M = observed data missing
    (if observed agree with simulated, only a * is printed)
```

<u>Comments:</u> none

STATION: L-2200 LAYER: 3 ROW: 10 COLUMN: 6

Water Levels in Feet, Datum NGVD

```
      -1         9         19        29        39        49
       +.........+.........+.........+.........+.........+
JAN 86 :        * +
FEB 86 :         * +
MAR 86 :      *    +
APR 86 :  *      +
MAY 86 :  *         +
JUN 86 :          *  +
JUL 86 :          *  +
AUG 86 :          *     +
SEP 86 :           *+
OCT 86 :         * +
NOV 86 :      *     +
DEC 86 :       *        +
JAN 87 :        *  +
FEB 87 :          * +
MAR 87 :       *   +
APR 87 :   *       +
MAY 87 :   *       +
JUN 87 :          *
JUL 87 :         *  +
AUG 87 :         * +
SEP 87 :           *+
OCT 87 :         *   +
NOV 87 :        *    +
DEC 87 :        *   +
JAN 88 :         * +
FEB 88 :        + *
MAR 88 :       *   +
APR 88 M   *
MAY 88 M  *
JUN 88 M         *
JUL 88 M         *
AUG 88 M         *
SEP 88 M          *
OCT 88 M        *
NOV 88 M      *
DEC 88 M       *
```

```
* = simulated water levels
+ = observed water levels
M = observed data missing
    (if observed agree with simulated, only a * is printed)
```

<u>Comments:</u> none

STATION: HE-620   LAYER: 3   ROW: 10   COLUMN: 12

Water Levels in Feet, Datum NGVD

```
      -1         9        19        29        39        49
       +.........+.........+.........+.........+.........+
JAN 86 :          *  +
FEB 86 :          *  +
MAR 86 :       *     +
APR 86 :   *          +
MAY 86 :  *        +
JUN 86 :           +*
JUL 86 :           *   +
AUG 86 :           *    +
SEP 86 :             *  +
OCT 86 :          *   +
NOV 86 :       *      +
DEC 86 :         *    +
JAN 87 :          * +
FEB 87 :           *  +
MAR 87 :         *    +
APR 87 :     *        +
MAY 87 :    *         +
JUN 87 :           * +
JUL 87 :          *    +
AUG 87 :         *    +
SEP 87 :            * +
OCT 87 :          *    +
NOV 87 :         *      +
DEC 87 :          *    +
JAN 88 :          *    +
FEB 88 :           *  +
MAR 88 :        *      +
APR 88 :    *       +
MAY 88 :   *      +
JUN 88 :           *+
JUL 88 :         *    +
AUG 88 :          *    +
SEP 88 :           *
OCT 88 :        * +
NOV 88 :      *     +
DEC 88 :        * +
```

* = simulated water levels
+ = observed water levels
M = observed data missing
    (if observed agree with simulated, only a * is printed)

<u>Comments:</u> none

STATION: HE-517   LAYER: 3   ROW: 7   COLUMN: 18

Water Levels in Feet, Datum NGVD

```
      -3         7        17        27        37        47
       +.........+.........+.........+.........+.........+
JAN 86 :          * +
FEB 86 :          * +
MAR 86 :       *     +
APR 86 :    *        +
MAY 86 :  *        +
JUN 86 :           * +
JUL 86 :         *   +
AUG 86 :         *     +
SEP 86 :           *   +
OCT 86 :        *     +
NOV 86 :      *      +
DEC 86 :        *    +
JAN 87 :         *   +
FEB 87 :          * +
MAR 87 :        *     +
APR 87 :    *         +
MAY 87 :   *         +
JUN 87 :         *  +
JUL 87 :        *   +
AUG 87 :       *    +
SEP 87 :           *  +
OCT 87 :        *     +
NOV 87 :        *     +
DEC 87 :         *    +
JAN 88 :          *  +
FEB 88 :          * +
MAR 88 :       *     +
APR 88 :    *       +
MAY 88 :  *        +
JUN 88 :         * +
JUL 88 :       *     +
AUG 88 :       *      +
SEP 88 :         *  +
OCT 88 :      *      +
NOV 88 :      *     +
DEC 88 :       *      +
```

* = simulated water levels
+ = observed water levels
M = observed data missing
    (if observed agree with simulated, only a * is printed)

<u>Comments:</u> none

```
STATION:   HE-516        LAYER: 3    ROW:  8      COLUMN: 19

          Water Levels in Feet, Datum NGVD

       3        13        23        33        43        53
       +.........+.........+.........+.........+.........+
JAN 86 M        *
FEB 86 M        *
MAR 86 M      *
APR 86 M   *
MAY 86 M *
JUN 86 :     +  *
JUL 86 M       *
AUG 86 M       *
SEP 86 :     +  *
OCT 86 :     +*
NOV 86 :    *
DEC 86 :     +*
JAN 87 :     +*
FEB 87 :   +   *
MAR 87 :      *+
APR 87 :   *+
MAY 87 :  *+
JUN 87 :    + *
JUL 87 :    + *
AUG 87 :    +*
SEP 87 :    +  *
OCT 87 :      *  +
NOV 87 :       *+
DEC 87 :       *
JAN 88 :       *
FEB 88 :     + *
MAR 88 :     * +
APR 88 :   *+
MAY 88 :  * +
JUN 88 :    + *
JUL 88 :     * +
AUG 88 :      *  +
SEP 88 :     +*
OCT 88 :   +*
NOV 88 :    *+
DEC 88 :     *+


* = simulated water levels
+ = observed water levels
M = observed data missing
    (if observed agree with simulated, only a * is printed)
```

<u>Comments:</u> none

```
STATION:   GL-517         LAYER: 3    ROW:  7       COLUMN: 19

          Water Levels in Feet, Datum NGVD

       1        11        21        31        41        51
       +.........+.........+.........+.........+.........+
JAN 86 :        +*
FEB 86 :       + *
MAR 86 :      * +
APR 86 :   *  +
MAY 86 : *    +
JUN 86 :        +*
JUL 86 :       *+
AUG 86 :       *  +
SEP 86 :        *+
OCT 86 :      * +
NOV 86 :     * +
DEC 86 :      * +
JAN 87 :       *+
FEB 87 :       *
MAR 87 :      *   +
APR 87 :   *    +
MAY 87 :  *    +
JUN 87 :       *
JUL 87 :      * +
AUG 87 M      *
SEP 87 M        *
OCT 87 :       * +
NOV 87 M       *
DEC 87 M       *
JAN 88 M        *
FEB 88 M        *
MAR 88 M      *
APR 88 :   *  +
MAY 88 M  *
JUN 88 M       *
JUL 88 M      *
AUG 88 M      *
SEP 88 :       *
OCT 88 :    *  +
NOV 88 :    *  +
DEC 88 :     *+


* = simulated water levels
+ = observed water levels
M = observed data missing
    (if observed agree with simulated, only a * is printed)
```

Comments: none