

Technical Publication 92-04

APRIL 1992

DRE 312

**A THREE-DIMENSIONAL
FINITE DIFFERENCE
GROUND WATER FLOW MODEL
OF
WESTERN COLLIER COUNTY,
FLORIDA**

Technical Publication 92-04

**A THREE-DIMENSIONAL FINITE DIFFERENCE
GROUND WATER FLOW MODEL OF
WESTERN COLLIER COUNTY, FLORIDA**

by

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DRE 312

April 1992

This publication was produced at an annual cost of \$1790.00 or \$3.58 per copy to inform the public. 500 392 Produced on recycled paper.

DRE Inventory Control #312

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

EXECUTIVE SUMMARY

The western Collier County three-dimensional ground water flow model was developed as part of the South Florida Water Management District's (SFWMD) water supply planning initiative. One of the major points of this initiative was to develop methods (i.e. models) to assess present water supply and use them as forecasting tools to predict future water quantity and quality within specified areas.

The calibrated model will be used by the SFWMD Planning Department by integrating it with existing SFWMD models of Lee and Hendry counties in developing a regional water supply plan for the Lower West Coast. The Regulation Department may use it as a cumulative impact model for assessing the impacts of proposed water use permits upon adjacent users, evaluate requests for large withdrawals adjacent to environmentally sensitive areas and to conduct drought impact assessments. Various county and local governmental agencies may also use this model to analyze future urban and agricultural growth to develop various land use and water supply scenarios.

This model is not static and will be updated periodically as new data becomes available and as new methodologies are developed to estimate various stresses that act upon the ground water flow system. It will also be incorporated into the District's Geographical Information System (GIS) for more proficient data incorporation and manipulation for future, more sophisticated modeling efforts.

Western Collier County is underlain by the Surficial, Intermediate and Floridan Aquifer Systems. The Surficial Aquifer System, composed of the Surficial and lower Tamiami aquifers, represents the major producing system in Collier County. The Intermediate Aquifer System consists of the sandstone, mid-Hawthorn and lower Hawthorn aquifers and associated confining units. It effectively separates the high quality water of the Surficial Aquifer System from the more saline water of the Floridan Aquifer System. The Floridan Aquifer System is comprised of the Suwannee and deeper aquifers.

The Collier County model was developed using the U. S. Geological Survey (USGS) modular three-dimensional finite difference ground water flow code MODFLOW. This code was used because it allows a detailed evaluation of the ground water flow system, it is available in the public domain, it is

compatible with most computer systems and its modular structure allows for easy use and modification. MODFLOW simulates ground water flow and water levels using data pertaining to aquifer parameters such as hydraulic conductivity, transmissivity, leakance and storativity. Stresses on the system such as recharge, evapotranspiration, well withdrawals and surface water interactions can also be simulated.

The Collier County model contains five layers representing the Surficial, lower Tamiami, sandstone, mid-Hawthorn and lower Hawthorn aquifers. The intervening confining units are not represented by individual layers but by vertical flow terms. The horizontal model grid for each layer is composed of 47 columns and 73 rows with a uniform spacing of one mile. The northern portion of the model was made inactive because of insufficient agricultural withdrawal information and the inability to simulate the effects of intense pumpage from outside the model area.

Hydrogeologic information used to develop the western Collier three-dimensional ground water flow model was obtained from various studies conducted within the study area. Ground water withdrawals from the various users were either entered directly from pumpage reports provided to the District or estimated. Agricultural information was obtained from individual water use permits issued by the District. The permits supplied information concerning crop type, irrigated acreage and pumping wells. This information was used to estimate monthly withdrawals during the transient calibration period. Public water supply monthly pumpage reports were used in the model. Domestic self supply was estimated using housing densities and per capita water use for residential areas within the model area.

Transient calibration was completed by adjusting aquifer parameters and stresses to match computed water levels with observed water levels for a period of 35 months (February 1986 to December 1988). Once the calibration of the model was completed, sensitivity testing of the aquifer parameters and stresses was performed to ensure the best possible accuracy for evaluative and predictive purposes. Layer 1, representing the Surficial aquifer, was not sensitive to changes in aquifer parameters but to variations in recharge and the evapotranspiration surface. Layers 2 through 4, representing the lower Tamiami, sandstone and mid-

Hawthorn aquifers, were most sensitive to changes to the vertical hydraulic conductivity (Vcont) of the intervening confining units.

Recommendations

Additional hydrogeologic investigations should be undertaken in those areas where existing data are incomplete or suspect. For the Surficial and lower Tamiami aquifers, these areas include the northwest portion of Hendry County and the Faka Union drainage basin of Collier County. The areal extent of the sandstone aquifer needs to be better defined in the areas south of Alligator Alley in central Collier County. Hydrogeologic information concerning the mid-Hawthorn and lower Hawthorn aquifers is needed throughout Collier County. The additional hydrogeologic information will increase the overall accuracy and confidence level of the model.

Additional ground water monitor wells should be installed, particularly in the eastern portion of Collier County for the Surficial, lower Tamiami and sandstone aquifers and throughout the county for the mid-Hawthorn and lower Hawthorn aquifers. Once constructed, these wells should be incorporated into the U. S. Geological Survey ground water monitor network for long term data collection. This will provide additional data for calibration of the updated and expanded models.

The location and operation of the network of small capacity agricultural canals in the study area should be investigated to determine their effects on the ground water flow system. Also, once model regridding capabilities are established, the model cell size should be reduced to better simulate the

effects of these drainage canals. This would improve the calibration of the Surficial aquifer and overall model calibration.

Domestic self supply is very widespread and accounts for a large percentage of water withdrawn from the system, but accurate ground water withdrawals from these users are not well known. Therefore, more accurate estimates of domestic water use would enhance the accuracy and reliability of the model.

A large percentage of water is also withdrawn for agricultural and landscape irrigation purposes within Collier County. Compliance with water use permit limiting conditions requiring the reporting of monthly irrigation water use should be stressed.

The model should be refined and updated as additional information becomes available and emphasis should be placed on obtaining information on parameters to which the model is most sensitive. The updated information would improve the confidence level, accuracy and reliability of the model. The model should also be used to provide boundary conditions for individual models when a finer scale is needed to address a site specific planning or regulatory question.

The previously calibrated models of Lee and Hendry counties should be combined with that of western Collier County. This would result in a regional three-dimensional ground water flow model of the Surficial and Intermediate Aquifer Systems for the Lower West Coast. The interface with the existing models would help to eliminate the effect of the approximated boundary conditions from the separate models within the region.

TABLE OF CONTENTS

EXECUTIVE SUMMARY	i
LIST OF FIGURES	v
LIST OF TABLES	vii
ACKNOWLEDGEMENTS	viii
ABSTRACT	ix
 INTRODUCTION	 1
Purpose and Scope	1
Location of Study Area	1
Previous Investigations	1
Hydrogeology	1
Surficial Aquifer System	4
Intermediate Aquifer System	4
 MODEL DESCRIPTION	 9
Introduction	9
Discretization	9
Boundary Conditions	13
Hydraulic Characteristics	13
Transmissivity	13
Specific Yield	19
Storage	19
Vertical Conductance	19
Surface Water Interactions	19
Rivers	19
Drains	20
Recharge	20
Net Precipitation	22
Surface Drainage	23
Evapotranspiration	23
Evapotranspiration Surface	23
Maximum Evapotranspiration Rate	23
Extinction Depth	27
Ground Water Use	27
Agricultural and Other Irrigation	27
Public Water Supply	31
Domestic Self Supply	31
 MODEL CALIBRATION	 33
Steady State	33
Transient Calibration	33
Layer 1 (Surficial Aquifer)	38
Layer 2 (Lower Tamiami Aquifer)	39
Layer 3 (Sandstone Aquifer)	42
Layer 4 (Mid-Hawthorn Aquifer)	42
Results	42
Transient Calibration	42
Layer 1 (Surficial Aquifer)	42
Layer 2 (Lower Tamiami Aquifer)	42
Layer 3 (Sandstone Aquifer)	49
Layer 4 (Mid Hawthorn Aquifer)	49

TABLE OF CONTENTS (CONTINUED)

Steady State Calibration	49
Layer 1 (Surficial Aquifer)	49
Layer 2 (Lower Tamiami Aquifer)	49
Layer 3 (Sandstone Aquifer)	49
Layer 4 (Mid Hawthorn Aquifer)	62
Total Model Volumetric Budget	62
SENSITIVITY TESTING	69
Layer 1 (Surficial Aquifer)	69
Layer 2 (Lower Tamiami Aquifer)	69
Layer 3 (Sandstone Aquifer)	69
Layer 4 (Mid Hawthorn Aquifer)	69
RESULTS & CONCLUSIONS	77
RECOMMENDATIONS	78
REFERENCES	79
APPENDIX A: Aquifer Parameters	81
APPENDIX B: River Package Input Data	99
APPENDIX C: Drain Package Input Data	105
APPENDIX D: Recharge Package Input Data	123
APPENDIX E: Evapotranspiration Package Input Data	143
APPENDIX F: Water Use Data	155
APPENDIX G: Public Water Supply Data	245
APPENDIX H: Comparative Hydrographs	273

LIST OF FIGURES

Figure		Page
1	Location of Study Area	2
2	Study Area	3
3	Generalized Hydrogeologic Cross Section of Collier County	5
4	Areal Extent of Unconfined Occurrence of Lower Tamiami Aquifer	6
5	Model Grid	11
6	Hydrogeologic Units and Corresponding Model Layers	12
7	Model Cell Types, Layer 1	14
8	Model Cell Types, Layer 2	15
9	Model Cell Types, Layer 3	16
10	Model Cell Types, Layer 4	17
11	Specified Head Used in Layer 5	18
12	Model Cells Containing River and Drain Reaches, Layer 1	21
13	Rainfall Stations	24
14	Rainfall Distribution for January, 1988	25
15	Rainfall Distribution for July, 1988	26
16	Model Cells Containing Agricultural Pumping Wells, Layer 1 (Surficial Aquifer)	28
17	Model Cells Containing Agricultural Pumping Wells, Layer 2 (Lower Tamiami Aquifer)	29
18	Model Cells Containing Agricultural Pumping Wells, Layer 3 (Sandstone Aquifer)	30
19	Location of Public Water Supply Wellfields	32
20	Observation Wells, Layer 1 (Surficial Aquifer)	34
21	Observation Wells, Layer 2 (Lower Tamiami Aquifer)	35
22	Observation Wells, Layer 3 (Sandstone Aquifer)	36

LIST OF FIGURES (CONTINUED)

Figure		Page
23	Observation Wells, Layer 4 (Mid-Hawthorn Aquifer)	37
24	Average Difference Between Observed and Computed Water Levels, Layer 1 (Surficial Aquifer)	40
25	Average Difference Between Observed and Computed Water Levels, Layer 2 (Lower Tamiami Aquifer)	41
26,	Average Difference Between Observed and Computed Water Levels, Layer 3 (Sandstone Aquifer)	43
27	Average Difference Between Observed and Computed Water Levels, Layer 4 (Mid-Hawthorn Aquifer)	44
28	Computed Water Levels, Layer 1 (Surficial Aquifer) April 1988	45
29	Computed Water Levels, Layer 1 (Surficial Aquifer) October 1988	46
30	Computed Water Levels, Layer 2 (Lower Tamiami Aquifer) April 1988	47
31	Computed Water Levels, Layer 2 (Lower Tamiami Aquifer) October 1988	48
32	Computed Water Levels, Layer 3 (Sandstone Aquifer) April 1988	50
33	Computed Water Levels, Layer 3 (Sandstone Aquifer) October 1988	51
34	Computed Water Levels, Layer 4 (Mid-Hawthorn Aquifer) April 1988	52
35	Computed Water Levels, Layer 4 (Mid-Hawthorn Aquifer) October 1988	53
36	Simulated Steady State Horizontal Flow Vectors, Layer 1 (Surficial Aquifer)	54
37	Volumetric Budget, Layer 1 (Surficial Aquifer) Steady State Conditions.	55
38	Simulated Steady State Horizontal Flow Vectors, Layer 2 (Lower Tamiami Aquifer).	56
39	Volumetric Budget, Layer 2 (Lower Tamiami Aquifer) Steady State Conditions.	57
40	Simulated Steady State Vertical Flow Between Layer 1 (Surficial Aquifer) and Layer 2 (Lower Tamiami Aquifer)	58
41	Simulated Steady State Horizontal Flow Vectors, Layer 3 (Sandstone Aquifer)	59

LIST OF FIGURES (CONTINUED)

Figure		Page
42	Simulated Steady State Vertical Flow Between Layer 2 (Lower Tamiami Aquifer) and Layer 3 (Sandstone Aquifer)	60
43	Volumetric Budget, Layer 3 (Sandstone Aquifer) Steady State Conditions.	61
44	Simulated Steady State Horizontal Flow Vectors, Layer 4 (Mid-Hawthorn Aquifer)	63
45	Simulated Steady State Vertical Flow Between Layer 3 (Sandstone Aquifer) and Layer 4 (Mid-Hawthorn Aquifer)	64
46	Simulated Steady State Vertical Flow Between Layer 4 (Mid-Hawthorn Aquifer) and Layer 5 (Lower Hawthorn Aquifer)	65
47	Volumetric Budget, Layer 4 (Mid-Hawthorn Aquifer) Steady State Conditions. ...	66
48	Volumetric Budget for Entire Model, Steady State Conditions	67

LIST OF TABLES

Figure		Page
1	MODFLOW Modules and Application to the Collier County Model	10
2	Sensitivity Responses to Changes in Layer 1	70
3	Sensitivity Responses to Changes in Stresses and Evapotranspiration Surface	71
4	Sensitivity Responses to Changes in Layer 2	72
5	Sensitivity Responses to Changes in Layer 3	73
6	Sensitivity Responses to Changes in Layer 4	75

ACKNOWLEDGEMENTS

This study was initiated under the direction of Sharon Trost, formerly the Director of the Hydrogeology Division and current Director of the Lower District Planning Division; subsequently conducted under the supervision of William Scott Burns, former Director of Hydrogeology and completed under the guidance of Keith R. Smith, Acting Director of the Hydrogeology Division.

The peer review committee whose review and criticism constituted an integral part in producing an accurate and comprehensive document:

Leslie Wedderburn, Ph.D., Water Resource Evaluation Department, SFWMD

Keith R. Smith, Hydrogeology Division, SFWMD

Emily Hopkins, Lower District Planning Division, SFWMD

Michael Merritt, USGS, Miami

Henry LaRose, USGS, Ft. Myers

Ray March, Collier Enterprises, Immokalee

Amanda Krupa, Lower District Planning Division, SFWMD

William Kirk, Regulation Division, SFWMD

Scott Burns and Henry LaRose helped to conceptualize the hydrostratigraphy of Collier County. Rick Bower and Keith Smith provided data and insight into the hydrogeology and model conceptualization of adjacent Lee and Hendry counties, respectively.

Jorge Restrepo provided insight and assistance in understanding the subtleties of Modflow and guidance throughout the model development phase of this project.

Barbara Dickey spent endless hours compiling data and developing programs used to generate and manipulate large data sets as part of model development, calibration and documentation.

Cindy Bevier wrote many of the pre-processing programs and subsequently ran these programs to create the input data for both Evapotranspiration and Recharge modules of Modflow.

Emily Hopkins reviewed model input and output data as part of the QA/QC procedure and provided helpful discussion and suggestions which helped to increase the reliability and accuracy of the model.

Diane Bello, David Demonstranti and Janet Wise generated the excellent graphics contained in this document.

Finally, the author would like to acknowledge Hedy Marshall for her patience, competence and knowledge essential in the word-processing and editing of the multiple drafts and final report.

ABSTRACT

The western portion of Collier County is underlain by three aquifer systems: the Surficial Aquifer System, the Intermediate Aquifer System and the Floridan Aquifer System. The Surficial Aquifer System is composed of the Surficial and lower Tamiami aquifers and represents the predominate source of ground water for urban and agricultural withdrawals. These two aquifers are separated by the lower Tamiami confining unit over the majority of the model area. The Intermediate Aquifer System is represented by the sandstone, mid-Hawthorn, and lower Hawthorn aquifers and intervening confining units. The Floridan Aquifer System is comprised of the Suwannee and deeper aquifers. A three-dimensional ground water flow model was developed using the U. S. Geological Survey modular flow code (MODFLOW). The model consists of five layers representing the Surficial, lower Tamiami, sandstone, mid Hawthorn and lower Hawthorn aquifers. The model area was discretized using a finite difference grid of 47 columns and 73 rows. Initial aquifer parameters were obtained from the first phase of the ground water resource assessment of Collier County and the District's three-dimensional ground water flow models of Hendry and Lee counties. A transient calibration was performed for a 35 month period (February 1986 to December 1988) by comparing simulated water levels against observed levels from an extensive ground water monitor network. The monthly simulated heads were in general agreement with observed water levels in the majority of the monitor wells used to calibrate the model. Analysis of the sensitivity tests indicate that heads in the lower Tamiami, sandstone and mid-Hawthorn aquifers are sensitive to changes in vertical conductance (Vcont). Heads in the Surficial aquifer are sensitive to changes in the degree of stresses such as recharge and evapotranspiration and to variations in the evapotranspiration surface.

INTRODUCTION

PURPOSE AND SCOPE

The purpose of this study was to develop a three-dimensional ground water flow model to assess the natural and man-made stresses that act upon the Surficial and Intermediate aquifer systems in western Collier County. The model was calibrated to existing data and has greater capabilities in assessing the interaction between the various aquifers caused by these stresses than the existing analytical and two-dimensional ground water flow models used by the District. An immediate use will be to evaluate requests for large ground water withdrawals in environmentally sensitive areas, assess the impacts of proposed water use upon adjacent users and to conduct drought impact assessments. It can also be used to determine the long term development potential of the ground water resource(s) and as a tool to develop a water supply plan for western Collier County.

LOCATION OF STUDY AREA

Collier County is located along the southwest coast of Florida (Figure 1). The study area (Figure 2) encompasses all of Collier County west of SR 29 and a six to ten mile buffer zone into the adjacent counties of Lee and Hendry. It lies generally within Township 45 through 49 South, and Ranges 25 through 31 East, and covers approximately 3,000 square miles.

PREVIOUS INVESTIGATIONS

Numerous geologic and stratigraphic investigations of southern Florida including Collier County have been conducted since the early 1900's. Geologic studies include works by Matson and Clapp (1909), Matson and Sanford (1913), and Cooke and Mossom (1929), which were later summarized by Parker and Cooke (1944), and Parker et al. (1955). The regional stratigraphic framework of Collier County has been delineated by Cole (1941), Applin and Applin (1944 and 1964), Dubar (1958 and 1962), Chen (1964), Puri and Vernon (1964) and Peck et al. (1977 and 1979). A summary of the geology of southern Florida has been completed by Missimer (1984). In this work, he also suggests establishing the Hawthorn Formation as a stratigraphic group. The presence of structural features within the underlying bedrock such as folds and faults has been suggested by Tanner (1965), Sproul et al. (1972), Missimer and Garner (1976) and Burns (1983).

In recognition of increased urban development along the coastal portion of the Collier County, hydrogeologic investigations were initiated by the county in cooperation with the U.S. Geological Survey. These studies include Klein (1954) and Schroeder and Klein (1961), which outlined the geologic and hydraulic framework in western and northwestern Collier County. McCoy (1962) incorporated these works and additional information into a more regional hydrogeologic investigation of Collier County. Other hydrogeologic investigations of the Surficial and Intermediate Aquifer Systems in sections of Collier County include Gee and Jensen (1980) of the East Naples area, Jakob (1983) south of Naples, and Missimer and Associates (1983) of the Cocohatchee Watershed. Stewart et al. (1982) conducted a surface resistivity study in connection with assessing the ground water resources of Collier County. The most recent regional ground water assessment of western Collier County was completed by Knapp et al. (1986). In that study, the hydrogeologic parameters from their investigation and previous works are summarized and incorporated into two-dimensional models for various portions of Collier County. Hunter Hydrosoft (1989) utilized this information in creating a ground water flow model depicting flow around public water supply wellfields under future withdrawal scenarios. In addition, numerous hydrogeologic studies have been conducted and models developed for various localized areas within the County by private consultants.

Regional hydrogeologic investigations of the adjacent counties include Wedderburn et al. (1982) and Montgomery and Associates (1988) of Lee County and Smith and Adams (1988) of Hendry County. Three-dimensional ground water flow models have been developed for Lee County by Camp Dresser and McKee (1987) and Bower et al. (1990). In an unpublished thesis, Painter (1984) discusses the results of a three-dimensional model for a portion of Lee County. Smith (1990) documents the development and results of a three-dimensional model for Hendry County.

HYDROGEOLOGY

Western Collier County is underlain by three aquifer systems: the Surficial Aquifer System, the Intermediate Aquifer System and the Floridan Aquifer System. The model developed in this study incorporates both the Surficial and Intermediate

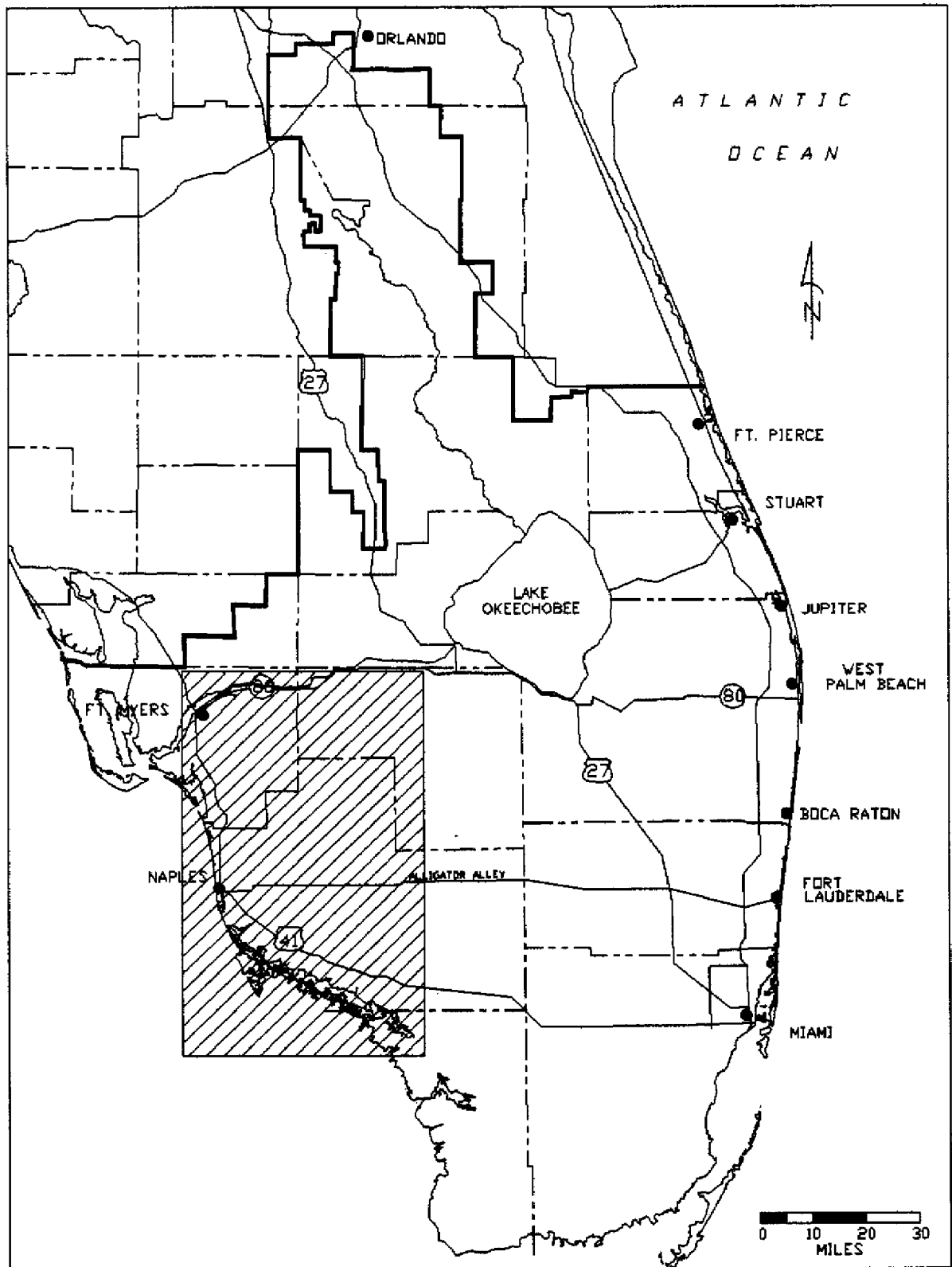


FIGURE 1. Location of Study Area

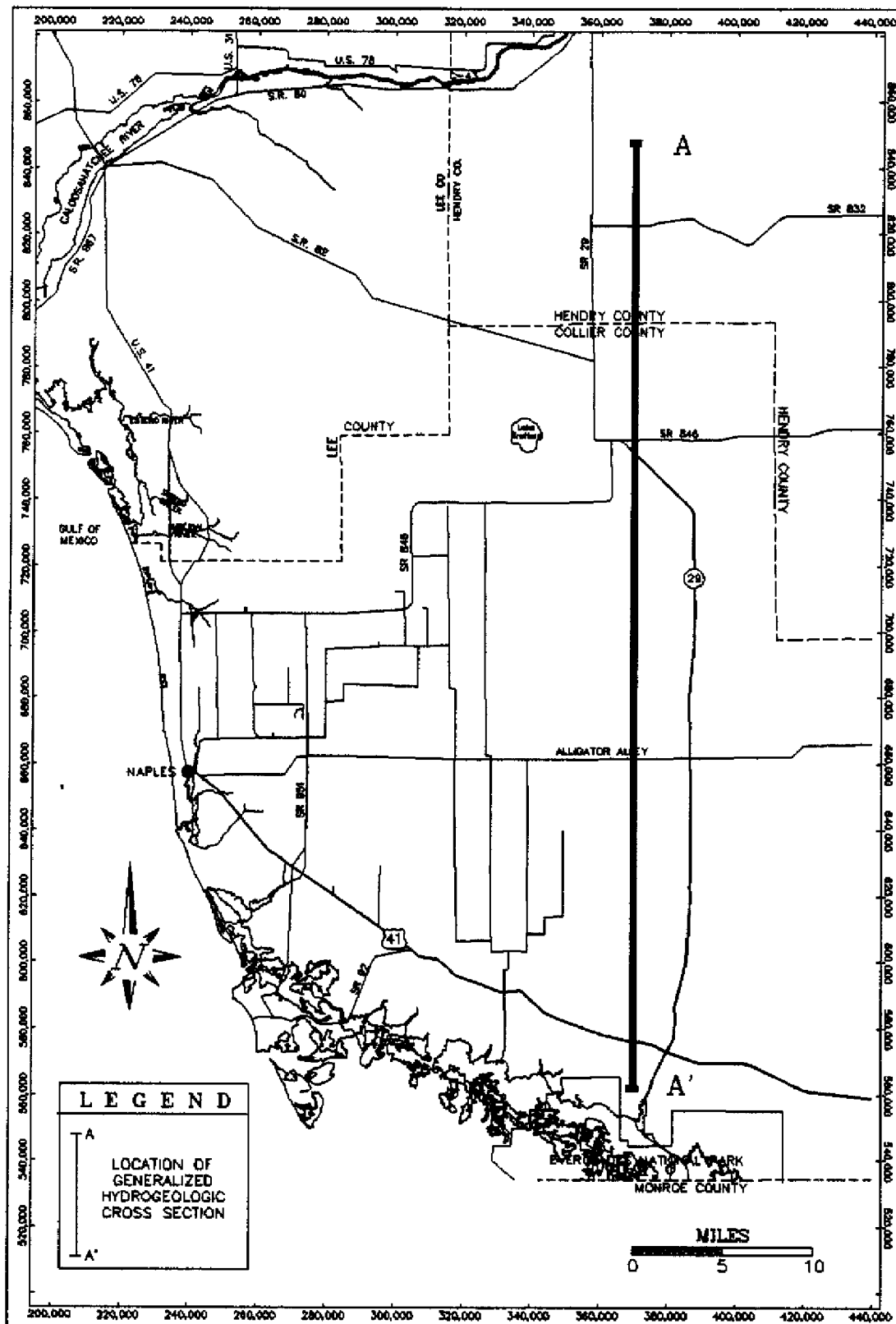


FIGURE 2. Study Area

Aquifer Systems. The lower portion of the Intermediate System (lower Hawthorn aquifer) is only used to hydraulically support the overlying aquifers. Relative depths and thicknesses of the aquifers are indicated in Figure 3.

Surficial Aquifer System

In southwest Florida, the Surficial Aquifer System is composed of the Surficial and lower Tamiami aquifers. These aquifers are the predominate source of ground water for urban and agricultural withdrawals.

Surficial Aquifer. The Surficial aquifer is under unconfined conditions and is composed primarily of fine to medium grained quartz sands, with minor amounts of clay and shell material of the Pleistocene and Holocene terrace deposits and sandy biogenic limestones of the Tamiami Formation. Hydraulic conductivities range from 100 ft/day to over 3,500 ft/day with the higher transmissivities occurring in the Cocohatchee watershed where the aquifer is composed of highly permeable coralline limestone.

Lower Tamiami Confining Unit. The Surficial aquifer is separated from the lower Tamiami aquifer over most of the model area by the lower Tamiami confining unit. This unit is composed of low permeable calcareous sandy clays, and poorly indurated limestone and dolosilts, which retard the vertical flow of water between the Surficial and lower Tamiami aquifers. These beds are considered leaky with leakance values ranging from 1×10^{-1} to 1×10^{-5} ft/day⁻¹ depending on clay content and degree of induration. In the southern portion of Lee County, north of the Bonita Springs area, minimal to no confinement occurs between the two aquifers due to the thinning or absence of these confining beds.

Lower Tamiami Aquifer. The lower Tamiami aquifer is under semi-confined conditions caused by the overlying and underlying confining units which restrict vertical flow. The majority of recharge to the aquifer comes from downward vertical flow through the leaky lower Tamiami confining unit from the Surficial aquifer. The lower Tamiami aquifer ceases to act as a semi-confined aquifer where confinement is minimal or non-existent (Figure 4). Within such areas, the lower Tamiami and Surficial aquifers function as a single unconfined aquifer (Surficial Aquifer System). This area generally corresponds to a thick occurrence of the Surficial aquifer.

Reported transmissivities in the lower Tamiami aquifer range from approximately 10,000 ft²/day to 320,000 ft²/day. The most productive locations are found within the Golden Gate Estates

area. Transmissivities generally decrease towards the east due to thinning of the carbonate facies and increased clastic content in the formation (Knapp et al., 1986). This aquifer is generally the predominate water producing unit in most of Collier County as a result of its relatively shallow depth, good water quality and high productivity.

Intermediate Aquifer System

The Intermediate Aquifer System separates and confines the poorer quality water of the Floridan Aquifer System from the higher quality water of the Surficial Aquifer System. It contains the sandstone, mid-Hawthorn and lower Hawthorn aquifers and intervening confining units.

Upper Hawthorn Confining Unit. Wedderburn et al. (1982) denotes the upper Hawthorn confining unit as zone of low permeability in the uppermost portion of the Hawthorn Group in Lee County. This unit separates the lower Tamiami aquifer from the sandstone aquifer where the sandstone is present. In southern Collier and eastern Hendry counties, the sandstone aquifer pinches out and the upper Hawthorn confining unit lies directly on top of the mid-Hawthorn confining unit. The upper Hawthorn confining unit consists of a mixture of low permeable clays, dolosilts and limestones. Vertical leakance for the upper Hawthorn confining unit range from 1×10^{-3} to 1×10^{-5} day⁻¹.

Sandstone Aquifer. The sandstone aquifer is a semi-confined aquifer separated from the Surficial Aquifer System by the overlying upper Hawthorn confining unit. This aquifer is continuous across most of the model area, but pinches out south of Alligator Alley (Knapp et al., 1986) and in west-central Hendry County (Smith and Adams, 1988). It consists of sandy limestone, sandstone, sandy dolomites and calcareous sands. In Collier and Hendry counties, the sandstone aquifer is predominately utilized for agricultural irrigation, but in Lee County it is stressed by both agricultural and urban withdrawals. Reported values of transmissivity in the sandstone aquifer range from approximately 160 ft²/day to 25,000 ft²/day.

Mid-Hawthorn Confining Unit. The mid-Hawthorn confining unit underlies the sandstone aquifer. This unit merges with the upper Hawthorn confining unit in those areas where the sandstone aquifer is absent. Lithologically, it consists of a relatively thick sequence of clayey dolosilt (Knapp et al., 1986) which effectively limits vertical flow to the overlying aquifers. Vertical leakance for the mid-Hawthorn confining unit range from 1×10^{-4} to 1×10^{-6} day⁻¹.

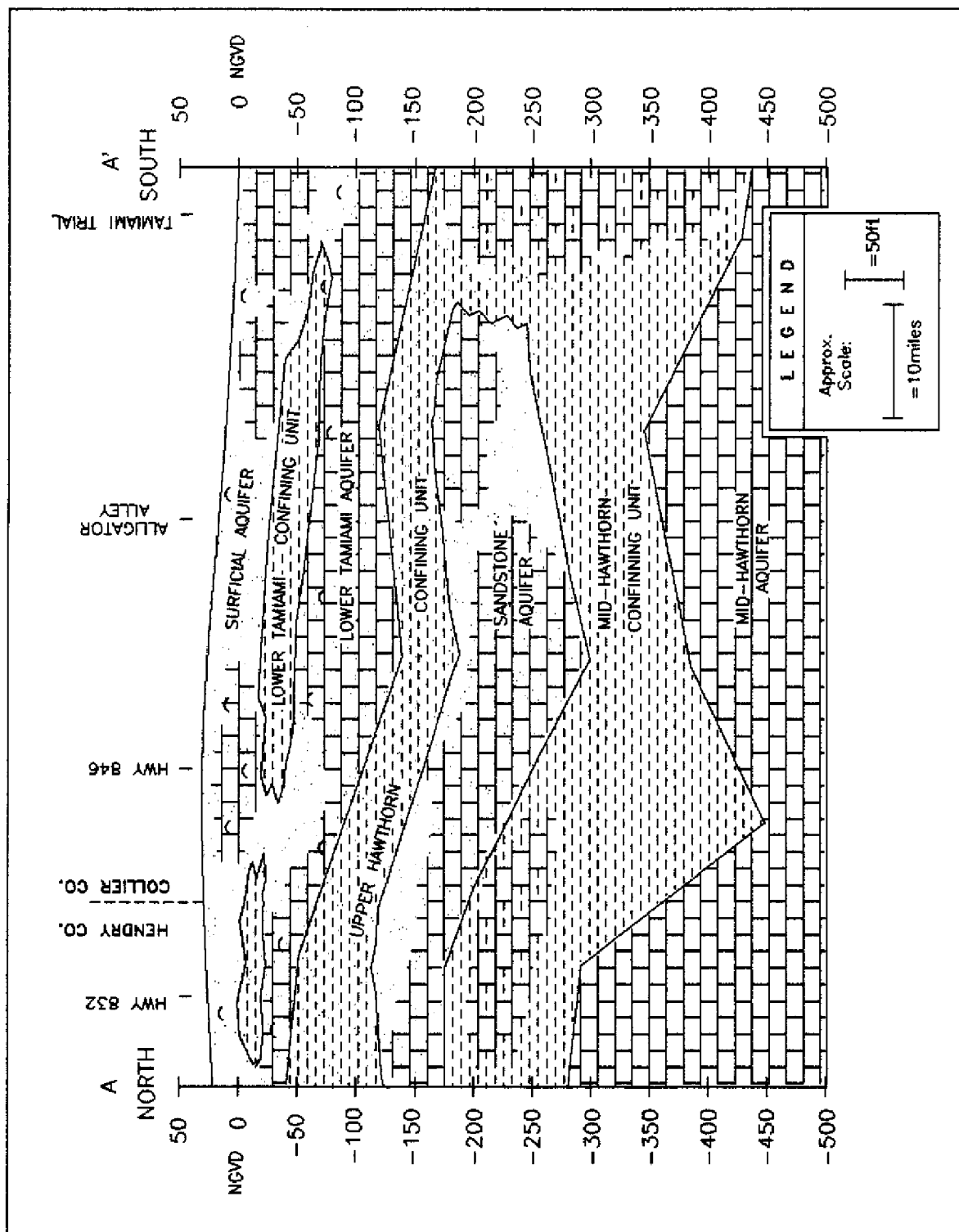
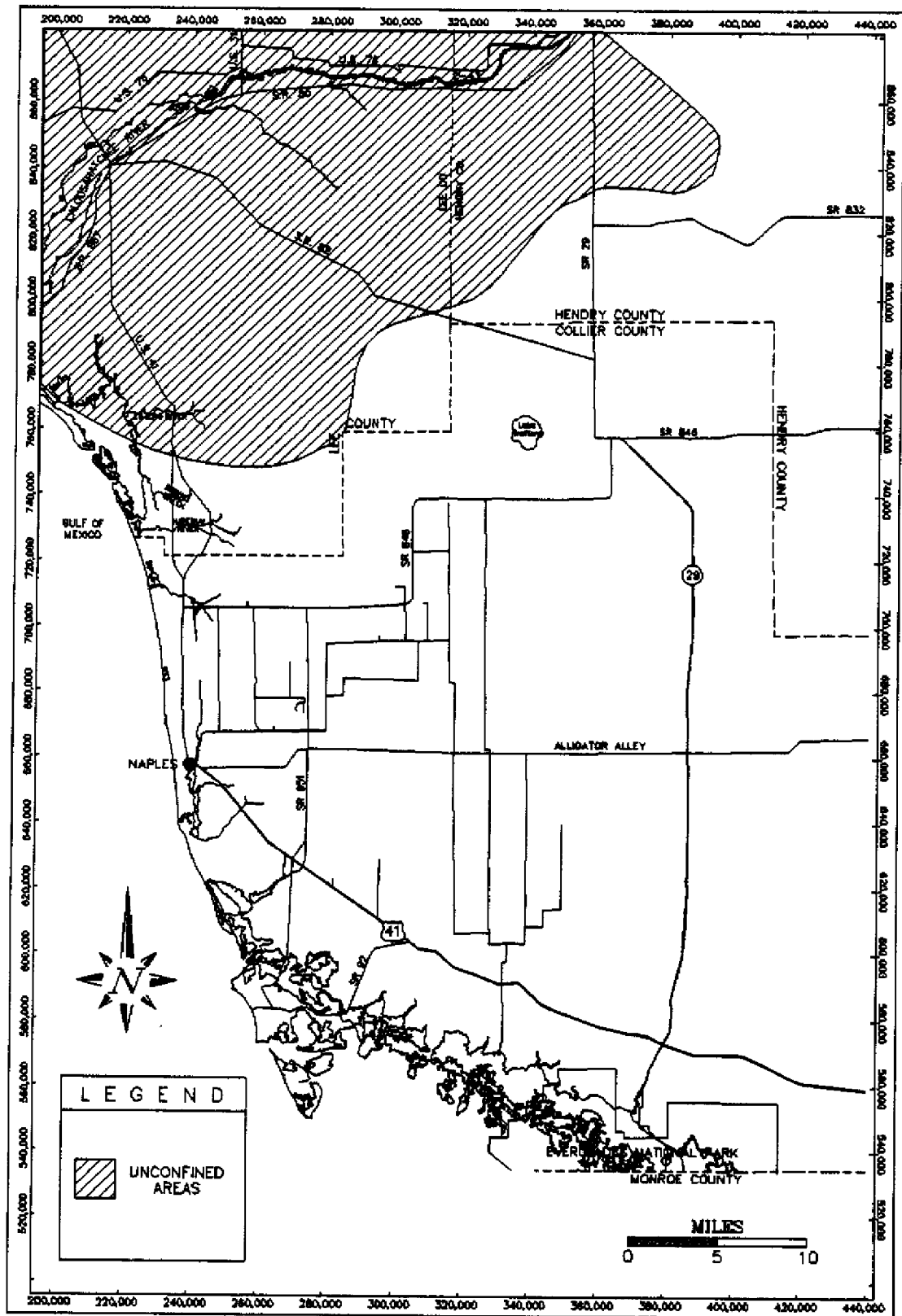


FIGURE 3. Generalized Hydrogeologic Cross Section of Collier County



Mid-Hawthorn Aquifer. The mid-Hawthorn aquifer is not highly utilized in either Collier or adjacent Hendry counties due to increased well depths, poorer quality water and relatively low yields. Only recently have wells been drilled into this aquifer to supplement agricultural withdrawals from the overlying aquifers in Collier County. However, in Lee County, the mid-Hawthorn aquifer has been greatly stressed by significant residential irrigation withdrawals. This aquifer is composed of sandy and phosphatic limestones and dolomites interbedded with lower permeable beds of dolosilt and poorly indurated limestones (Knapp et al., 1986). Locally transmissivities may exceed 4,000 ft²/day, but generally range from 500 ft²/day to 1,200 ft²/day over the model area.

Lower Hawthorn Confining Unit. The lower Hawthorn confining unit underlies the mid-Hawthorn aquifer and consists of varying thicknesses of poorly indurated limestone and interbedded clays, dolosilt, and carbonate muds. Vertical leakance for this confining unit range from 1×10^{-3} to 1×10^{-6} day⁻¹, based primarily on data from the Cape Coral/Ft. Myers area in Lee County (Missimer, 1991).

Lower Hawthorn Aquifer. The lower Hawthorn aquifer is also a semi-confined aquifer and is composed primarily of fossiliferous limestone containing minor amounts of silts and sands. Transmissivity values are highly variable and range from 1,800 ft²/day to 12,500 ft²/day. This hydraulic information is based on aquifer tests conducted in the Cape Coral/Ft. Myers area of Lee County (Missimer, 1991). Ground water withdrawals from this aquifer are very limited within Collier County due to its poor water quality (high chloride concentration) and greater well depths.

MODEL DESCRIPTION

INTRODUCTION

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

1. It is available in the public domain and is compatible with most computer systems,
2. 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,
3. MODFLOW allows great flexibility of data file structure and management; this facilitates the employment of and interaction with other software for data manipulation,
4. 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 areas of 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 multiple layered conditions, however, it is not as direct as SIP and it requires more time to arrive at a solution. PCG is frequently faster than SIP or SSOR for complex flow systems. The SIP solution method was used in the western Collier County model because of its efficiency under normal conditions. Table 1 summarizes the MODFLOW modules and their specific application to the western Collier County model.

MODFLOW allows several types of boundaries to be set in a model: specified head, specified flux and head dependent flux. Constant head is a specified head boundary which maintains the same user-specified head level throughout the

transient simulation and may be used when the cell is in contact with a large surface water body. Specified flux boundaries can be simulated through the use of external source terms in the model. A no-flow boundary is a type of specified flux boundary and is used where the ground water flow regime is such that flow across the boundary is not expected to occur. Head dependent flux boundaries, as the name implies, generates a flux which depends on the head in the cell and a user specified head assigned to the external source and upon some proportionality factor. All types of boundary conditions can be set anywhere within a model grid. A specified flux (no flow) boundary is implicit along the outer edges of each layer and bottom of a model grid.

DISCRETIZATION

The study area was discretized into a horizontal grid comprised of cells measuring one square mile, assembled into a grid of 73 rows and 47 columns (Figure 5). The model grid was set to spatially match and overlap the grid used in the existing SFWMD three-dimensional ground water flow model of Lee County (Bower et al., 1990) and in close proximity to the Hendry County model (Smith, 1990).

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), which represents a hypothetical interface separating the model layers. 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 this model, flow in the aquifers is primarily horizontal and flow across the confining zones is primarily vertical. Thus, the quasi-three-dimensional approach is a good approximation of the ground water flow regime in Collier County.

The western Collier County model contains five layers (Figure 6), representing the Surficial,

TABLE 1
MODFLOW MODULES AND APPLICATION TO THE
COLLIER 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 dependent on aquifer head	Used to simulate major drainage canals.
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 between source/sink and aquifer	Used
Recharge	Simulates recharge to model from infiltration of rainfall	Used
SIP	Solves finite difference equations using the Strongly Implicit Procedure	Used for final steady- state and transient calibration
SSOR	Solves finite difference equations using the Slice Successive Over Relaxation Method	Not Used
PCG	Solves finite difference equations using the Preconceived Con- jugate Gradient Method	Not Used
Output Control	Specifies output format	Used
Observation Nodes	Generates a file of computed heads for selected nodes	Used to generate convergence maps and hydrographs

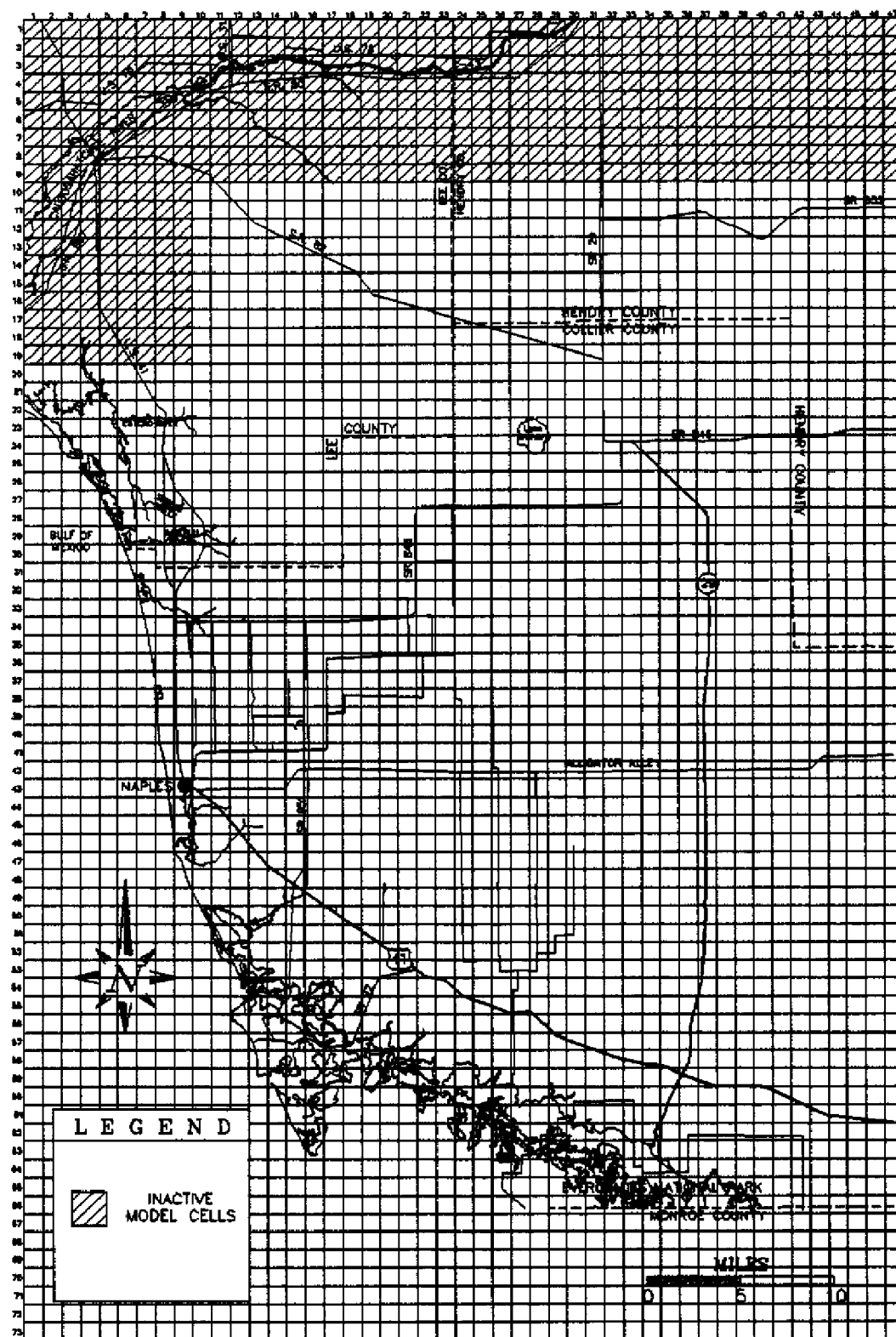


FIGURE 5.

Model Grid

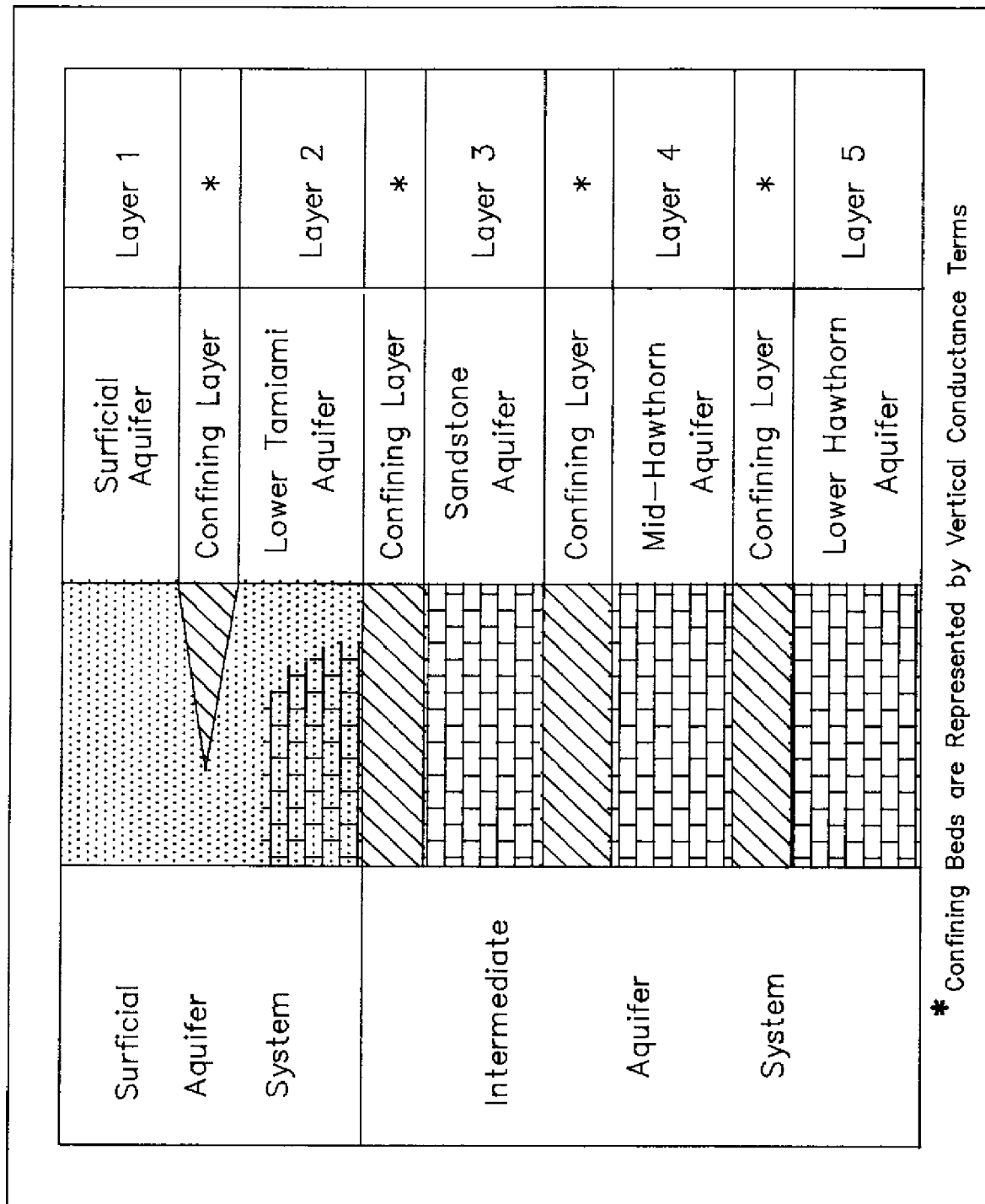


FIGURE 6. Hydrogeologic Units and Corresponding Model Layers

lower Tamiami, sandstone, mid-Hawthorn and lower Hawthorn aquifers. The confining zones separating these aquifers are represented as vertical conductance terms at the bottom of layers one through four, respectively.

BOUNDARY CONDITIONS

Constant heads (specified heads) were chosen for the model boundaries in Collier County where the cells are in contact with a large surface water body such as the Gulf of Mexico. This type of boundary represents an inexhaustible source of water where the ground water system may either draw from or discharge to without changing the head within that cell. General head boundaries were established along the northern and eastern limits to simulate flow in or out of the model. The flux across this boundary depends on the head differential between the user specified head on one side of the boundary and model calculated head on the other (Anderson and Woessner, 1991). This type of boundary condition was used to more accurately reflect inflows or outflows of water to the model area, because it allows the head along the boundary to change with time. It can also help to alleviate the potential problem of overestimating flow into the model if steep ground water gradients (such as those around a pumping well) approach the boundary during a model simulation.

In layers 1 and 2, representing the Surficial and lower Tamiami aquifers, the northern and eastern boundaries consist of general head cells set six to ten miles outside the county border. This distance was chosen to minimize the effects of stresses within Collier County upon the boundaries by assuming that heads along the boundary will not change in response to those stresses. Within layer 1, the coastline and surface of the Gulf of Mexico are established as a constant head of 0 feet NGVD (Figure 7); no corrections for tidal fluctuations have been made. For the lower Tamiami aquifer (layer 2), a constant head of 0 feet NGVD was set for all cells two miles west of the coastline. This was done to simulate the head distribution at the terminus of the Tamiami confining unit and undersea subcropping of the lower Tamiami aquifer (Figure 8). General heads were also used along the northern and eastern boundaries for layer 3 (sandstone aquifer), but constant heads were used to represent the western and southern model limits (Figure 9). Specified heads were used along the entire outer edge of layer 4 (mid-Hawthorn aquifer) (Figure 10). This type of boundary was chosen due to insufficient data along the edge of this layer which is needed to accurately represent the parameters used in the calculation of inflow or outflows by the other types of boundary

conditions. Constant heads were used for the entire bottom layer which represents the lower Hawthorn aquifer. Constant heads in the lower Hawthorn were used to hydraulically support the mid-Hawthorn and overlying aquifers through upward leakage. The constant head values for the lower Hawthorn aquifer were created by determining the average water levels from existing monitor wells over the transient calibration period (Figure 11). The use of an average head distribution for this layer was chosen because of easier file management, very limited monthly water level data, and insignificant changes in water levels over the simulation period.

HYDRAULIC CHARACTERISTICS

All data describing hydraulic and aquifer parameters such as conductivity, transmissivity, vertical conductance, thicknesses, and aquifer bottoms are presented in Appendix A.

Transmissivity

Layer 1 (Surficial 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 elevation, 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 becomes inactive for the remainder of the simulation. This situation does not occur in this calibrated model.

Hydraulic conductivity of the Surficial aquifer in the western Collier County model ranges between 100 ft/day and 3,500 ft/day. The distribution of hydraulic conductivity was based on pump test data from various consultants, SFWMD and U.S. Geological Survey reports. The conductivity values used in the SFWMD three-dimensional models of Lee and Hendry counties were then assigned to the appropriate model cells. The single array was then smoothed using the cubic spline interpolation technique to eliminate any sharp breaks and establish continuity between the data sets.

Layer 2 (Lower Tamiami Aquifer). The transmissivity grid for layer 2 was developed by regionalization of the transmissivity values reported in various ground water reports. The regionalization was accomplished using a kriging interpolation technique, and resulted in a range of transmissivity from 10,000 ft²/day to 296,600 ft²/day. Where the lower Tamiami confining unit is absent in southern

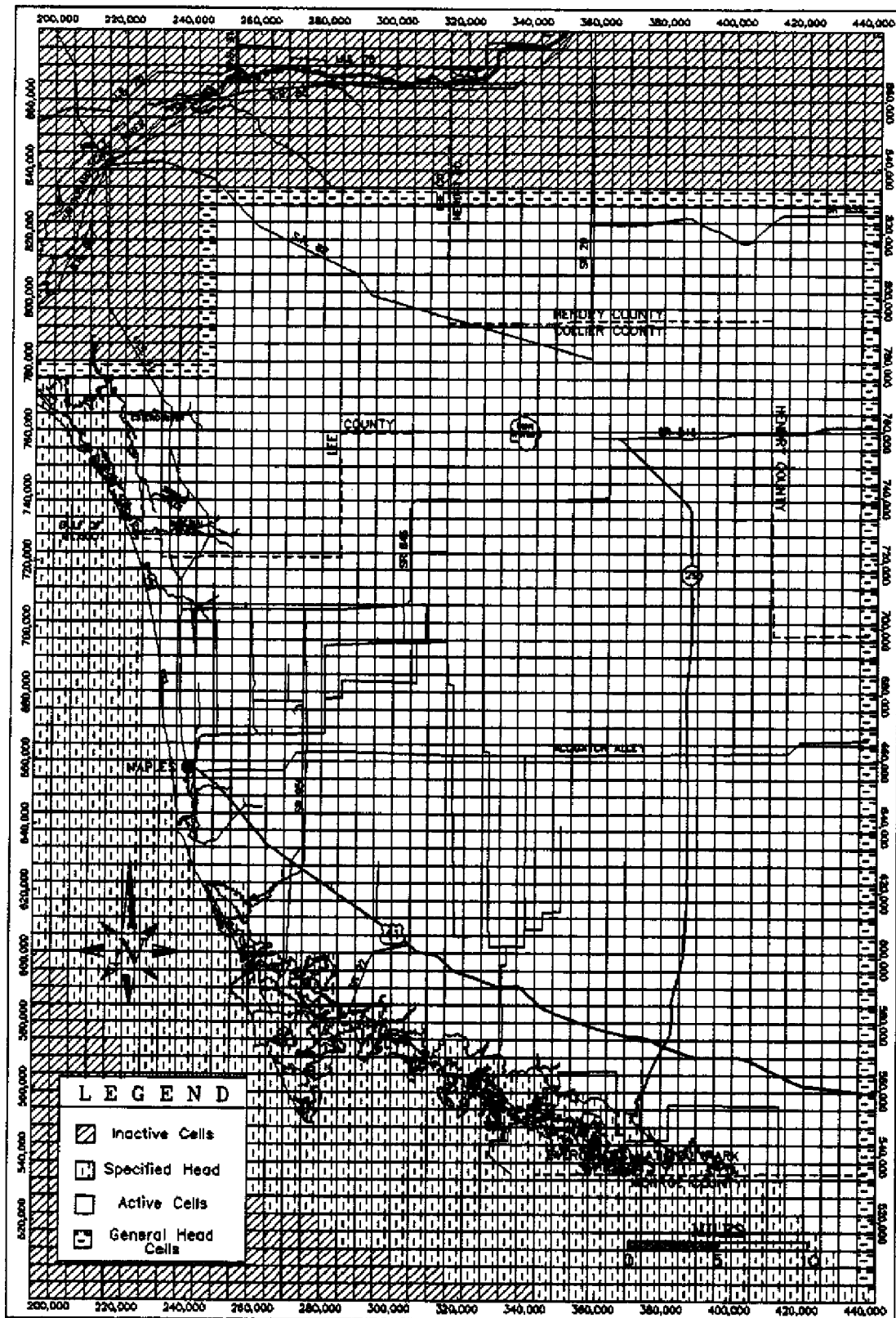


FIGURE 7. Model Cell Types, Layer 1

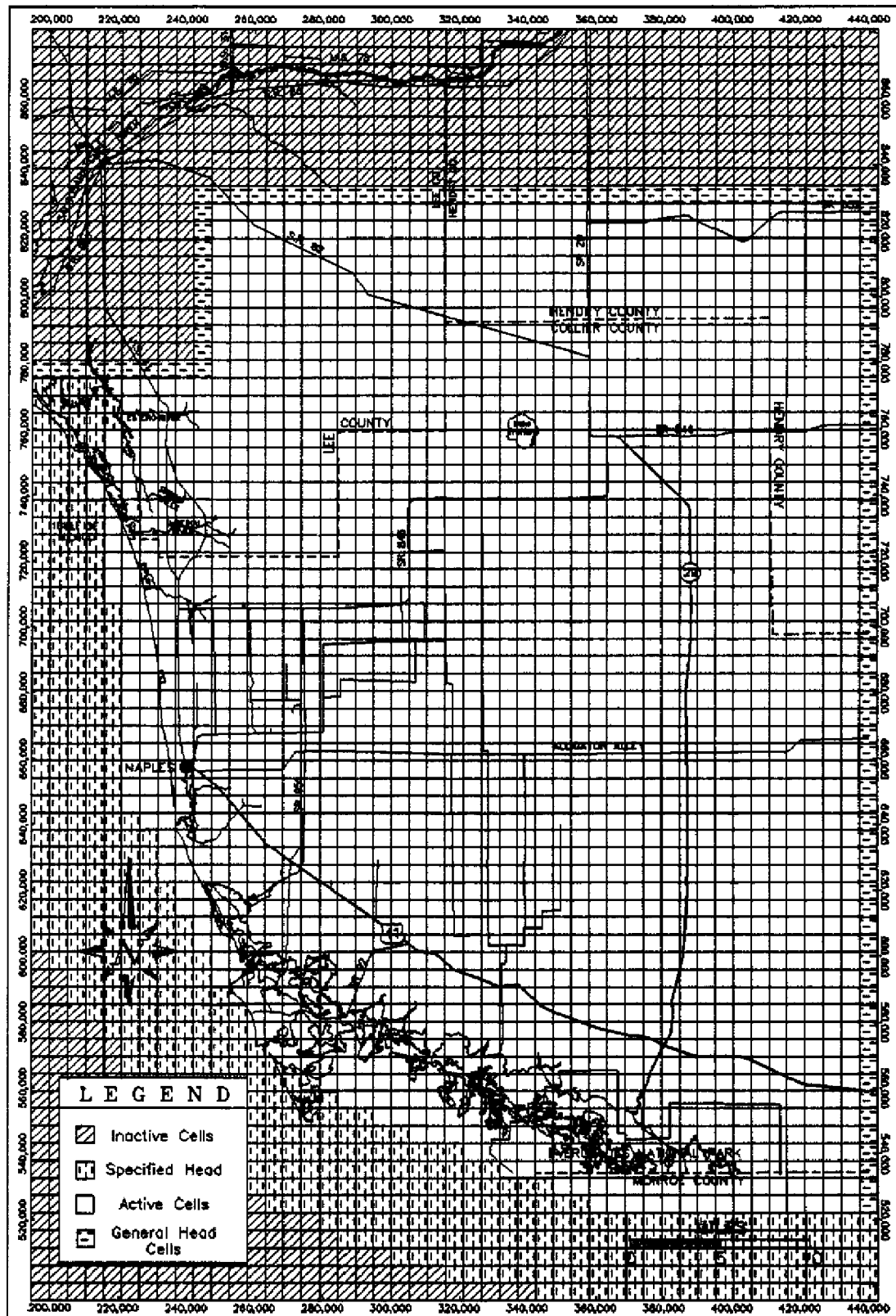


FIGURE 8. Model Cell Types, Layer 2

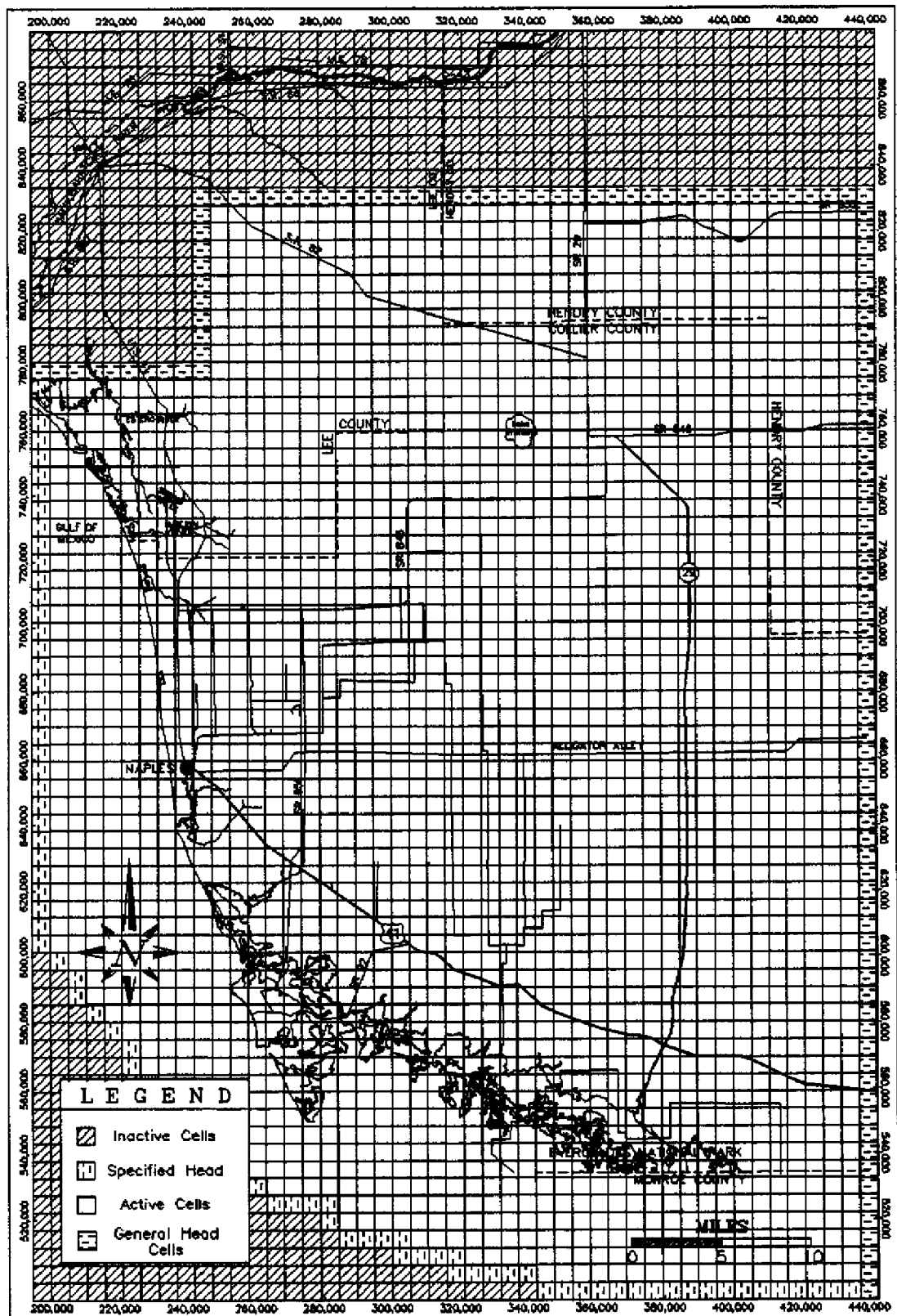


FIGURE 9. Model Cell Types, Layer 3

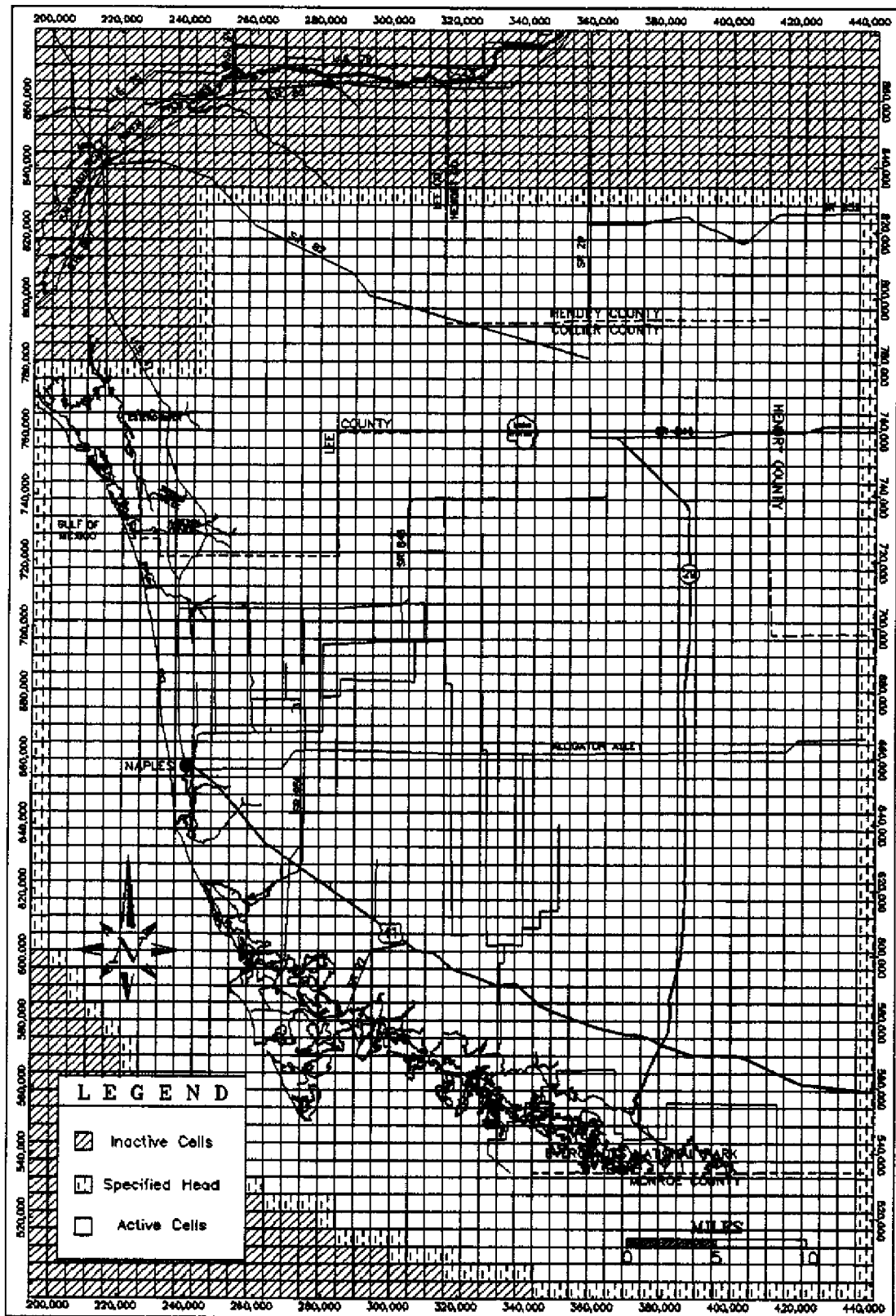


FIGURE 10.

Model Cell Types, Layer 4

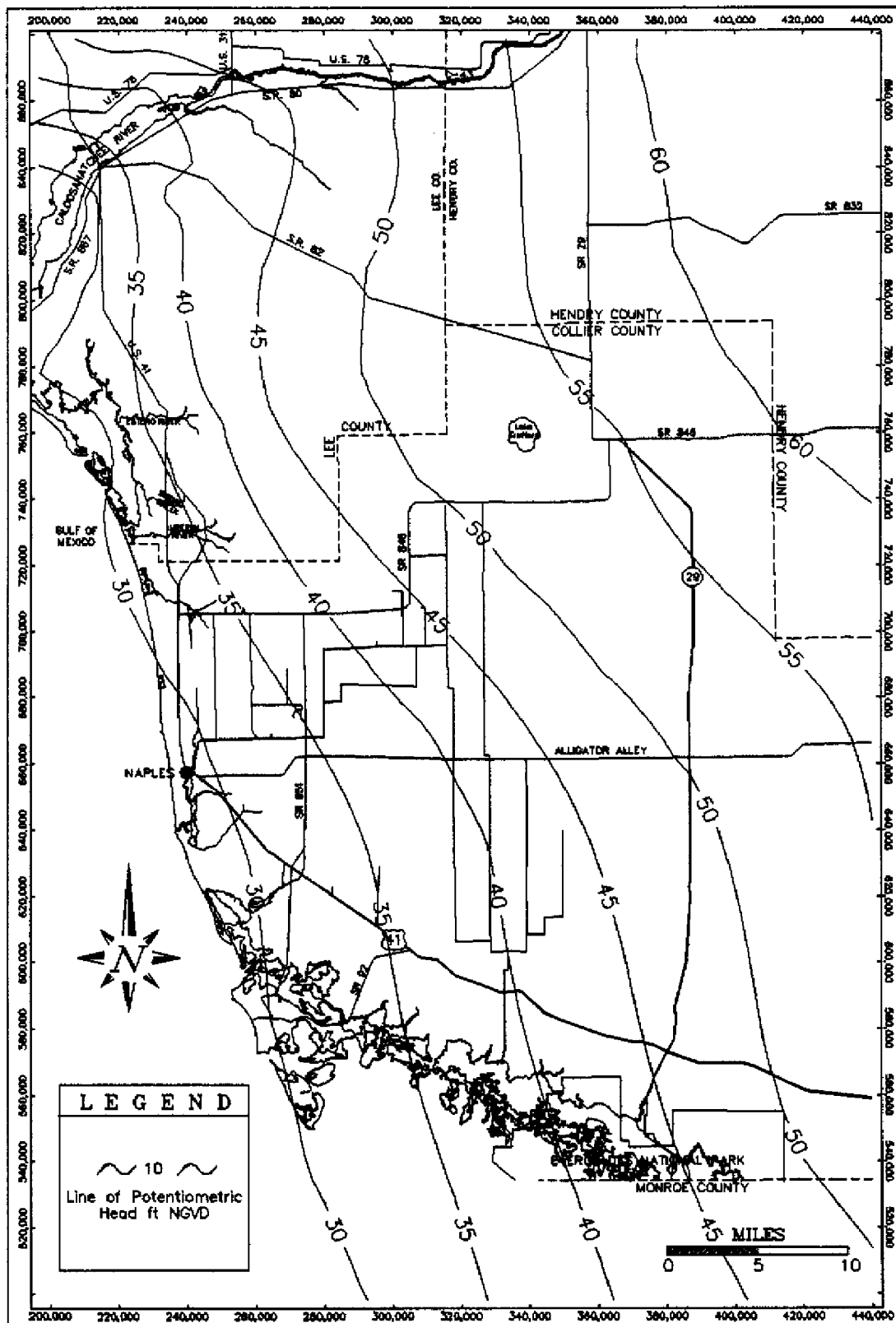


FIGURE 11: Specified Head Used in Layer 5

Lee County, the layer is represented by a hydraulic conductivity of 500 ft/day multiplied by thickness of one foot, a negligible value which has no effect on model results (Bower et al., 1990). Instead of establishing a no flow boundary at this point, a relatively small transmissivity value (500 ft²/day) and large vertical hydraulic conductivity value (1x10⁻¹ ft/day) was used to allow for maximum vertical flow to occur between the lower Tamiami and Surficial aquifers. This approach enables direct hydraulic interaction between the sandstone and Surficial aquifer to occur where the lower Tamiami aquifer ceases to function as a confined aquifer.

Layer 3 (Sandstone Aquifer). The transmissivity grid for layer 3 was developed using zoned averaged conductivity values based on pump test data from within Collier County multiplied by aquifer thickness. Aquifer thickness were obtained from JMM (1988) for Lee County and reinterpreted hydrogeologic cross sections of western Collier County compiled from various sources (Klein, 1954; McCoy, 1962; Gee & Jensen 1980; Knapp et al., 1986). The aquifer thickness grid generated from the kriging algorithm did not accurately represent the sandstone aquifer in southern Collier and central Hendry counties, where it does not occur. The transmissivity values in these areas were significantly reduced (1 to 10 ft²/day) which simulates the southern and eastern boundary of the aquifer. Resulting values of transmissivity for the sandstone aquifer ranged from 160 ft²/day to 14,500 ft²/day.

Layer 4 (Mid-Hawthorn Aquifer). Relatively little is known about the hydraulic characteristics of the mid-Hawthorn aquifer and the degree in which it is connected to the lower Hawthorn aquifer. Within Collier County, transmissivity array for layer 4 was developed using average conductivity values based on pump test data (primarily from western Lee County) multiplied by aquifer thickness. Aquifer thickness was once again obtained from hydrogeologic cross-sections compiled from various sources (James M. Montgomery, 1988 and Knapp et al., 1986). Resulting transmissivity values for the mid-Hawthorn aquifer range from 300 to 5,000 ft²/day.

Specific Yield

Reliable data on specific yield for the Surficial aquifer in Collier County is very limited. Therefore, specific yield for layer 1 (Surficial aquifer) was set at 0.2 (Fetter, 1980, Driscoll, 1986). This value represents an average specific yield for the type of sediments that comprise the Surficial aquifer.

Storage

The storage coefficients in layer 2 through 5, representing the lower Tamiami through lower Hawthorn aquifers, were set to 1×10^{-6} feet⁻¹ multiplied by the aquifer thickness. This methodology was also used to determine storage coefficients for the ground water flow models of Eastern Palm Beach County (Shine et al., 1989) and Lee County (Bower et al., 1990).

Vertical Conductance

Within MODFLOW, for a quasi-three-dimensional approach, flow between layers is controlled by the vertical conductance parameter (Vcont). Vertical flow through the confining layer is a function of the vertical conductance term and the head difference between the two layers. Horizontal flow in the confining layer within the area is negligible and flow is assumed to be primarily vertical. The JMM (1988) study reports these average vertical hydraulic conductivity values for the following confining layers:

Lower Tamiami	0.012400 ft/day
Upper Hawthorn	0.008860 ft/day
Mid Hawthorn	0.000310 ft/day
Lower Hawthorn	0.0002565 ft/day

Leakance values used in the model were obtained by dividing the above referenced vertical hydraulic conductivities by the thickness of each confining zone. The vertical conductance (Vcont) term for each model cell is then calculated within MODFLOW by multiplying the leakance value by its area.

Thickness data for the lower Hawthorn confining unit is quite limited in Collier County. Therefore, the leakance array used to represent this confining unit was initially set to an average value of 0.0000200 day⁻¹, obtained from the SFWMD ground water flow model of Lee County (Bower et al., 1990) and adjusted during steady state calibrations. The resulting calibrated leakance values representing the lower Hawthorn confining unit ranged from 0.0000015 day⁻¹ to 0.0000500 day⁻¹.

SURFACE WATER INTERACTIONS

Rivers

The river module of MODFLOW was used to simulate the interaction of ground water and distinct surface water bodies such as rivers and lakes. The simulated flow between ground and surface water is controlled by the hydraulic conductance of the river bed sediment, river stage, aquifer head, and elevation of the river bottom. River bed conductance

(CRIV) for a cell is obtained by using the following equation (McDonald and Harbaugh, 1983):

$$CRIV = \frac{KLW}{M} \quad (1)$$

where,

K = hydraulic conductivity of the river bed sediment,

L = length of the river reach that occur in the cell,

W = width on wetted perimeter of the river reach, and

M = estimated thickness of the river bed sediment.

The rate of flow (QRIV) is determined by the difference between river stage and aquifer head, and is proportional to the conductance of the river bed sediment and is given by:

$$QRIV = CRIV (HRIV - h_{ijk}) \quad (2)$$

where,

CRIV = river bed conductance,

HRIV = river stage, and

h_{ijk} = head in the cell underlying the river reach.

Effluent or influent flow can occur, depending on 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. 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 sediment. Further reductions in aquifer head produce no increase in flow into the aquifer (McDonald & Harbaugh, 1983).

Only those surface water bodies with reliable information on widths, depths, and stages were simulated in the western Collier County model. They included the tidal portions of Faka Union Canal, Barron River, Henderson Creek, Lely Canal, Naples Bay, Cocohatchee River, Imperial River, Estero River, and Lake Trafford. Bottom elevations, profiles, and configurations for the majority of the canals were obtained from various surface water consultant reports and aerial photographs. Stage data was obtained from both District and U. S Geological Survey recorder stations. Cells

containing river reaches are shown in Figure 12. Model input data and stage recorder locations used to compile the river module is presented in Appendix B.

Drains

The rate at which water is removed from the aquifer in the drain package of MODFLOW is defined by McDonald and Harbaugh (1983) as:

$$QD_{ijk} = CD_{ijk} (h_{ijk} - d_{ijk}) \quad (3)$$

where,

CD_{ijk} = hydraulic conductance of the drain,

h_{ijk} = aquifer head in the cell occupied by the drain, and

d_{ijk} = drain elevation.

The drain elevation may be represented by either the bottom elevation of the canal or flow point of the water control structure (i.e. weir). The water control structure retains water within the cell until the crest elevation is exceeded, then water is removed from that cell. If the aquifer head drops below the bottom of the drain, flow to the drain ceases and no return flow from the drain occurs.

The primary canals of the major drainage basins within Collier County such as the Golden Gate and Faka Union and the East County Control District (ECWCD) of Lee County were simulated using the drain package. Cells containing drains are shown in Figure 12. Model input data and water control structure locations used to compile the drain module is presented in Appendix C.

RECHARGE

The average recharge depth in a model cell resulting from precipitation, R_p , can be computed using the mass balance equation as:

$$R_p = P_n - Q_d - ET_u - ET_s \quad (4)$$

where

P_n = the average net precipitation depth over the cell not lost to interception or depressional storage,

Q_d = the average depth of water lost to surface drainage (not otherwise simulated using a MODFLOW package),

ET_s = the average evapotranspiration depth from the saturated zone (calculated by

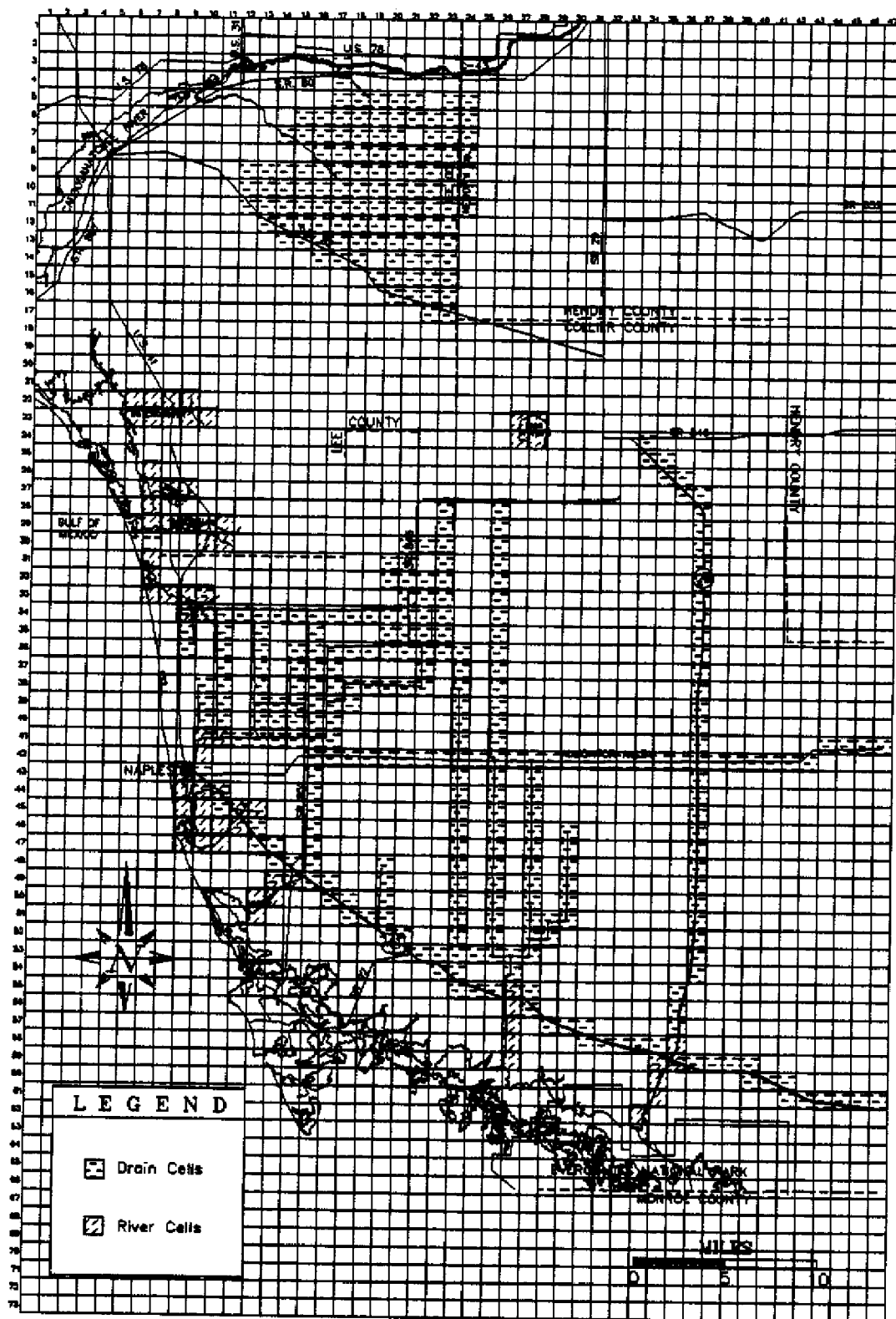


FIGURE 12. Model Cells Containing River and Drain Reaches, Layer 1

the evapotranspiration package in MODFLOW), and

ET_u = the average evapotranspiration depth from the unsaturated zone (not calculated by the evapotranspiration package in MODFLOW).

Net Precipitation

The average monthly net precipitation depth, P_n , for a cell can be approximated from the total monthly precipitation depth over the cell, P_t , as:

$$P_n = MAX \{ K_i P_t - \sum_{n=1}^N K_d(n), 0 \} \quad (5)$$

where,

K_i = the interception coefficient,

$K_d(n)$ = the daily maximum depression storage loss, and,

N = the number of days in the month.

Interception is that portion of the gross precipitation which wets and adheres to above ground objects until it returns to the atmosphere through evaporation (Viessman, et al., 1977). The quantity of water intercepted depends largely upon the storm character, the season of the year, and the species, age, and density of the prevailing plants and trees. The percentage of water intercepted by an individual plant is directly related to the type and density of the foliage. For non-urban land uses, extreme values of K_i are defined as (Viessman, et al., 1977):

$$K_i = \begin{cases} 1.00 & \text{for clear bare ground (0\% interception)} \\ 0.75 & \text{for dense closed forest (25\% interception).} \end{cases}$$

Values for K_i in urban areas ranged from 1.00 to 0.50, depending upon the land use type. The value of K_i assigned to a model cell represents the weighted average of the K_i values for all land use types within that cell. K_i values for the various land use codes used in the western Collier County model are listed in Appendix D.

Precipitation that reaches the ground surface may infiltrate, flow over the surface, or become trapped in numerous small depressions. The depression-storage loss for impervious drainage areas varies from 0.05 in., on a 2.5% slope, up to 0.11 in., on a slope of one percent (Bower, et al., 1990). The upper limit of 0.11" was assumed for the model because of the relative lack of slope within or

between model cells. The model depression storage loss, $K_d(d)$, or simply K_d , was calculated as:

$$K_d = K_d^{max} \{ MAX \{ [1 - (\frac{K}{K_m})^{\frac{1}{2}}], 0 \} \} \quad (6)$$

where,

K_d^{max} = the maximum daily depression storage losses in inches for the stress period (an upper limit of 0.11 inches was assumed for each day),

K = the average saturated vertical hydraulic conductivity of the soil layer in a cell, and

K_m = a calibration parameter. It is the value of hydraulic conductivity at which infiltration is assumed to be nearly instantaneous, thus precluding evaporative losses from storage in depressions.

A value of $(K/K_m) = 0$, signifying an impervious drainage area, implies a value of $K_d = 0.11$ inches per single precipitation event, and a value of $(K/K_m) = 1$, a highly pervious area, implies a $K_d = 0$. Rainfall of less than the critical daily precipitation depth K_d evaporates and creates neither infiltration nor runoff.

Only one precipitation event per day of at least 0.11 inches was assumed. Interception - storage capacity is usually reached early in a storm event. This suggests that a larger fraction of rainfall is intercepted in depressions during numerous small storms than during one equivalent severe storm (Linsley, et al., 1982).

Soil hydraulic conductivity (K) values for all applicable soil associations were determined by examining tables of saturated vertical permeability for the various soil horizons for each soil type (Carlisle et al., 1988). A composite soil permeability was created for each soil association based on the vertical permeability of each horizon within a given soil type, than by the relative percentage of each soil type in that association. A composite soil permeability for each model cell was then calculated as the sum of the percentage of each soil association within that cell multiplied by the appropriate permeabilities. Soil permeability values for the various associations ranged from 4.46 ft/day to 20 ft/day throughout the model area. The instantaneous vertical hydraulic conductivity, K_m , was set at 36 ft/day.

Surface Drainage

The surface drainage depth is defined as the difference between the net precipitation depth, P_n , and the net infiltration (Bower, et al., 1990). Net average depth of water lost to surface drainage, Q_d , can be estimated by:

$$Q_d = (K_s)(K_a)(P_n) \quad (7)$$

where,

K_s = a coefficient relating the potential for runoff to surface drainage, and

K_a = a coefficient relating the potential for aquifer recharge from surface drainage.

K_s varies between 0 and 1, depending on the land use types potential for surface drainage into canals or surface water bodies. The effect of surface drainage systems which may recharge the unsaturated zone are taken into account by the factor K_s . Model values for K_s varied between 0.1 and 0.3 with 0.1 being most common. The value of K_a is a function of the average hydraulic conductivity and the average slope of the land surface. If there is no drainage into the unsaturated zone $K_a = 1$, and 0 when rainfall completely recharges the unsaturated zone. The value of K_a was defined as:

$$K_a = K_a^{\max} (1 - K/K_{\max}) \quad (8)$$

where

K_a^{\max} = the maximum that K_a may take (less than or equal to 1), and

K_{\max} = the maximum soil hydraulic conductivity in the study area.

The net direct surface runoff in southwestern Florida is assumed to be relatively small, therefore, K_a was uniformly set to 0.1. Appendix D shows land use codes and their assigned values for K_s , K_a and K_i .

Stations supplying precipitation data are shown in Figure 13. Precipitation was distributed throughout the model based on the Thiessen method, which uses a weighing factor to adjust for nonuniform gauge distribution. This method divides the model area into polygons based on the nearest rainfall station. Once the area is subdivided, the rainfall from the nearest station is distributed over that polygon. Total precipitation polygons are shown in Figures 14 and 15 for January and July of 1988, respectively.

EVAPOTRANSPIRATION

Water loss through direct evaporation and through transpiration by plants is simulated in the model by the evapotranspiration (ET) package of MODFLOW. The following assumptions are applied (McDonald and Harbaugh, 1983):

1. When the water table is at or above a specified elevation, termed "ET surface", ET loss from the water table occurs at a specified maximum rate.
2. When the depth of the water table is below the ET surface exceeds a specified value, termed the "extinction depth" or "root zone", ET from the water table ceases.
3. ET from the water table varies linearly as water table levels fluctuate between the above two limits.

Evapotranspiration Surface

The evapotranspiration surface is represented by the land surface within the model area. Surveyed land surface elevations were obtained for each of the U. S Geological Survey monitor wells within and outside the model area. These values were then used in a kriging interpolation technique to generate a grid containing an elevation for each model cell. Within specified areas, where kriging did not accurately represent the land surface, representative values were inserted into the model grid. Figure E-1 in appendix E shows the ET surface values for each model cell.

Maximum Evapotranspiration Rate

The maximum evapotranspiration rate was estimated using the Blaney-Criddle equation. The basic form of the equation is:

$$U = k k_t \frac{p_m t_m}{100} \quad (9)$$

where

U = the crop ET for a particular time period in inches from layer 1,

k = a consumptive use coefficient which varies according to crop type,

k_t = a climatic coefficient which is related to the mean air temperature,

(It is defined as $k_t = 0.0173t - 0.314$ where t is in degrees Fahrenheit),

p_m = the percent of daytime hours of the year which occurred during the month,

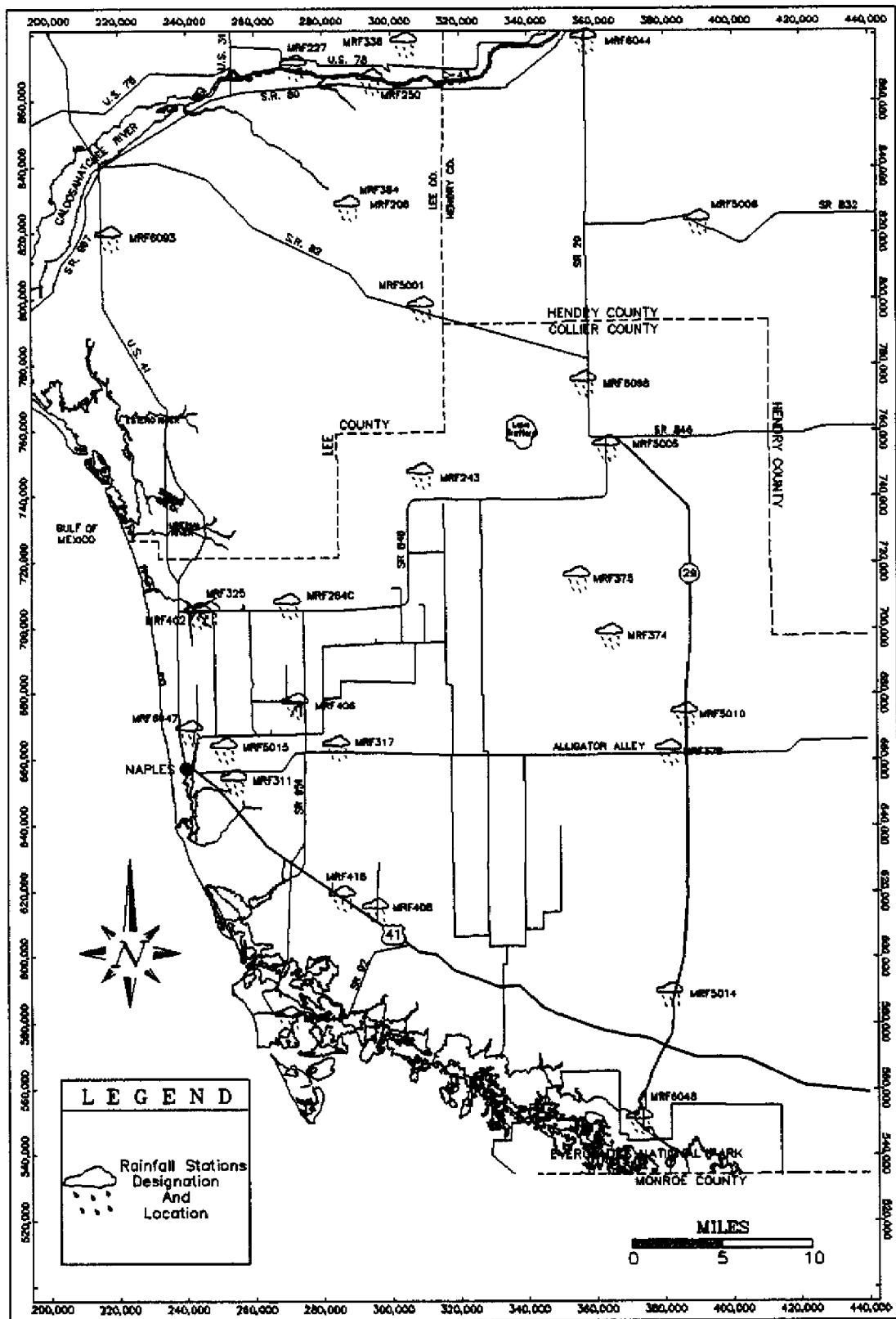


FIGURE 13. Rainfall Stations

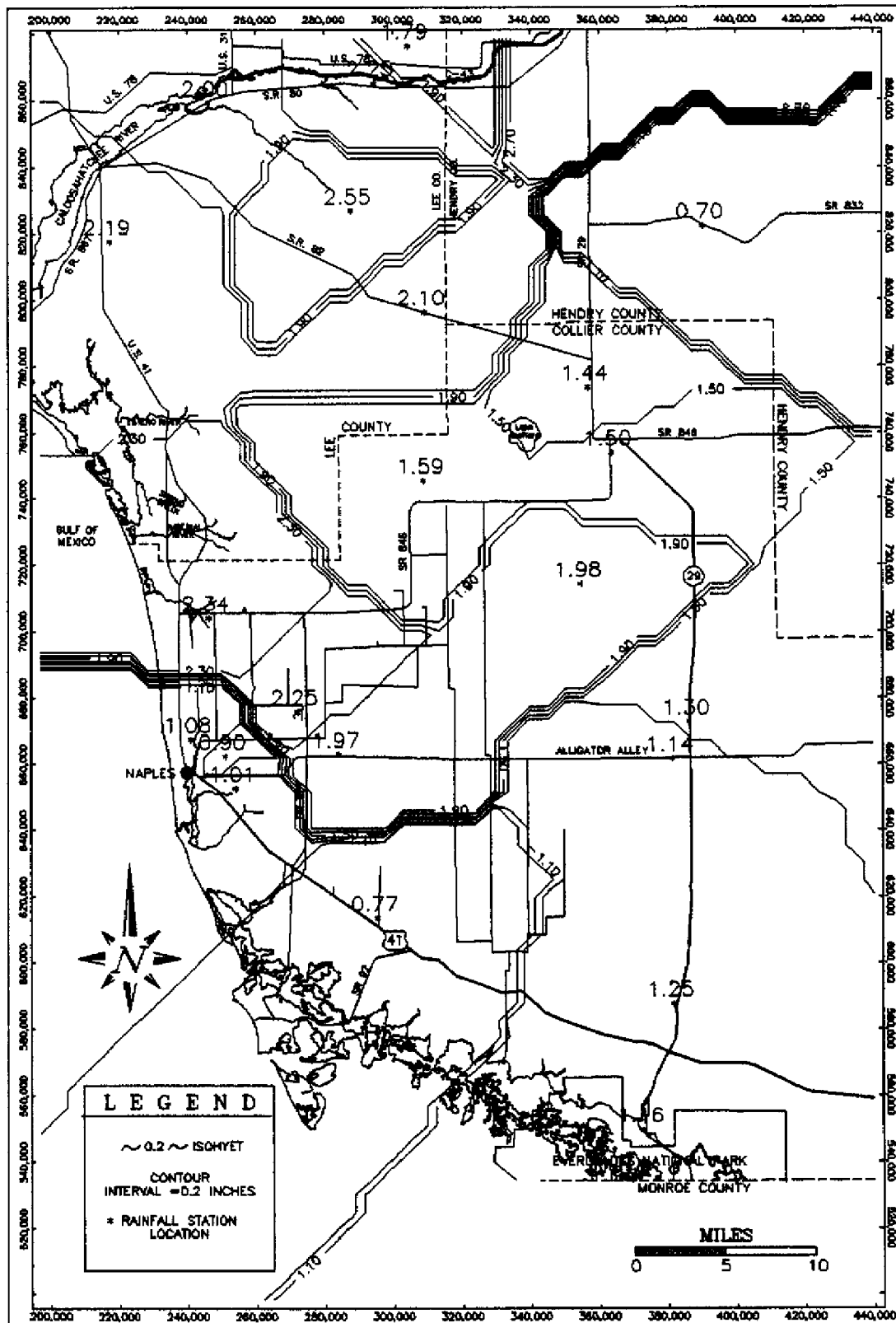


FIGURE 14. Rainfall Distribution for January, 1988

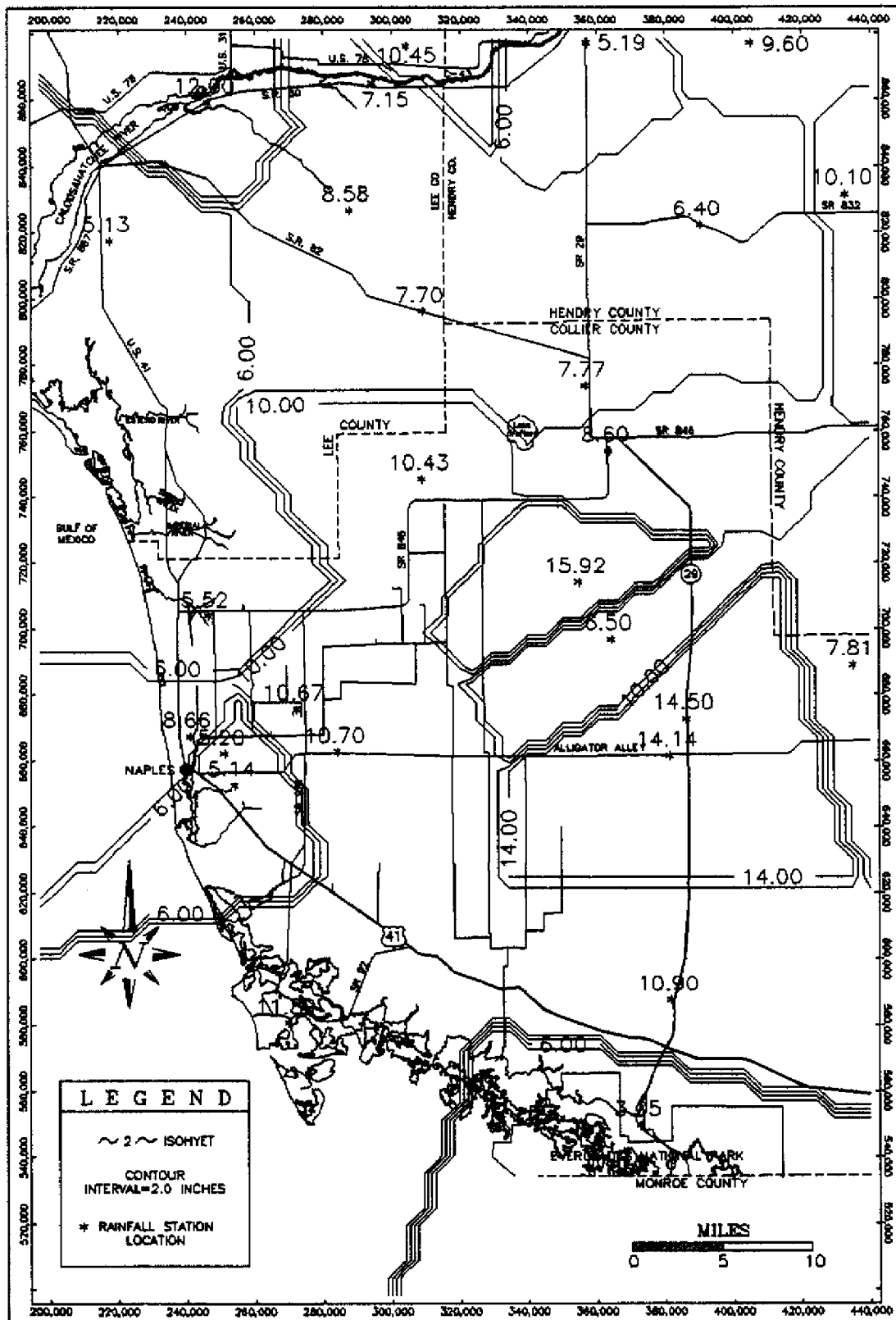


FIGURE 15. Rainfall Distribution for July, 1988

t_m = the mean temperature for the month, in degrees Fahrenheit.

Percentage of daytime hours and mean temperature data were from the Everglades City rainfall station (compiled from forty-three years of data) was used in the above calculation. The consumptive use coefficient (k) is defined as:

$$k = k_c * k_f \quad (10)$$

where

k_c = a coefficient reflecting the growth state of the crop (Appendix E), and

k_f = is a coefficient reflecting the fraction of land surface which is covered with a specified type of vegetation (also Appendix E). $k_f = 1$ for non-urban land uses; it varies between 0.1 and 1.0 for urban land uses.

Crop coefficients (k_c) were either taken directly or inferred from values presented in Tables C-1 and C-2, SFWMD's Permit Information Manual Volume III. Surface water permit data were used to determine k_f values for urban land uses from ratios of pervious to impervious areas. A value of 1 was assigned to all land use types except urban and barren land.

Extinction Depth

Extinction depth represents the depth of the water table below the ET surface elevation beyond which evapotranspiration from the water table ceases. Extinction depths in the model are related to land use and are based upon estimated root depths for various types of vegetation (Teets, SFWMD, personal communication). Land use codes and their assigned extinction depth values are shown in Appendix E.

GROUND WATER USE

Water use figures for the model were determined using data from individual water use permits issued by the SFWMD. 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's). The entire coastal portion of Collier County and all of Lee County are designated as RTA's. The District also issues general water use permits to all uses less 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 ground water withdrawals from the model because the total volume covered in these permits are insignificant when compared to individual permits. The time frame and available manpower for model development also limited the processing of the general water use permits.

Agricultural and Other Irrigation

Agricultural and landscape irrigation withdrawals account for approximately 78 percent of the ground water use in the model area based on 1988 estimates. Only a limited number of accurate agricultural monthly pumpage records exist, therefore, agricultural and landscape withdrawals were estimated. Irrigation water requirements of different crops were estimated using a method described by the U. S. Soil Conservation Service (USDA, 1970). This method uses the modified Blaney-Criddle formula to estimate supplemental water requirements for various crops. Factors such as crop type, soil type, air temperature, daylight hours, total rainfall, and irrigation system efficiency are used to calculate the irrigation requirements for the various types of crops found within the study area.

Agricultural water use data from each water use permit was assembled into a spreadsheet. This information included crop types, total irrigated acreage, irrigation efficiency, well and surface water information, soil types and rainfall station. Supplemental irrigation requirements for the following rainfall stations were used in determining irrigation withdrawals: Naples, Ft. Myers, Clewiston, LaBelle, Big Cypress and Everglades City. Irrigation withdrawals were calculated by multiplying irrigated acreage by the appropriate monthly supplemental crop requirement, and dividing by the irrigation system efficiency (if known). The total volume of water for each permitted user is then divided amongst all wells and surface water facilities in proportion to their pump capacities. Supplemental irrigation withdrawals for each permitted user was calculated for each month of the calibration period (February 1986 through December 1988). Permitted agricultural water use data is presented in Appendix F. Figures 16, 17, and 18 show the distribution of cells with simulated agricultural withdrawals from layer 1 (Surficial aquifer), layer 2 (lower Tamiami aquifer), and layer 3 (sandstone aquifer), respectively. A relatively insignificant amount of ground water within the model area is withdrawn from layer 4 (mid-Hawthorn aquifer) for agricultural purposes and, therefore, is not presented.

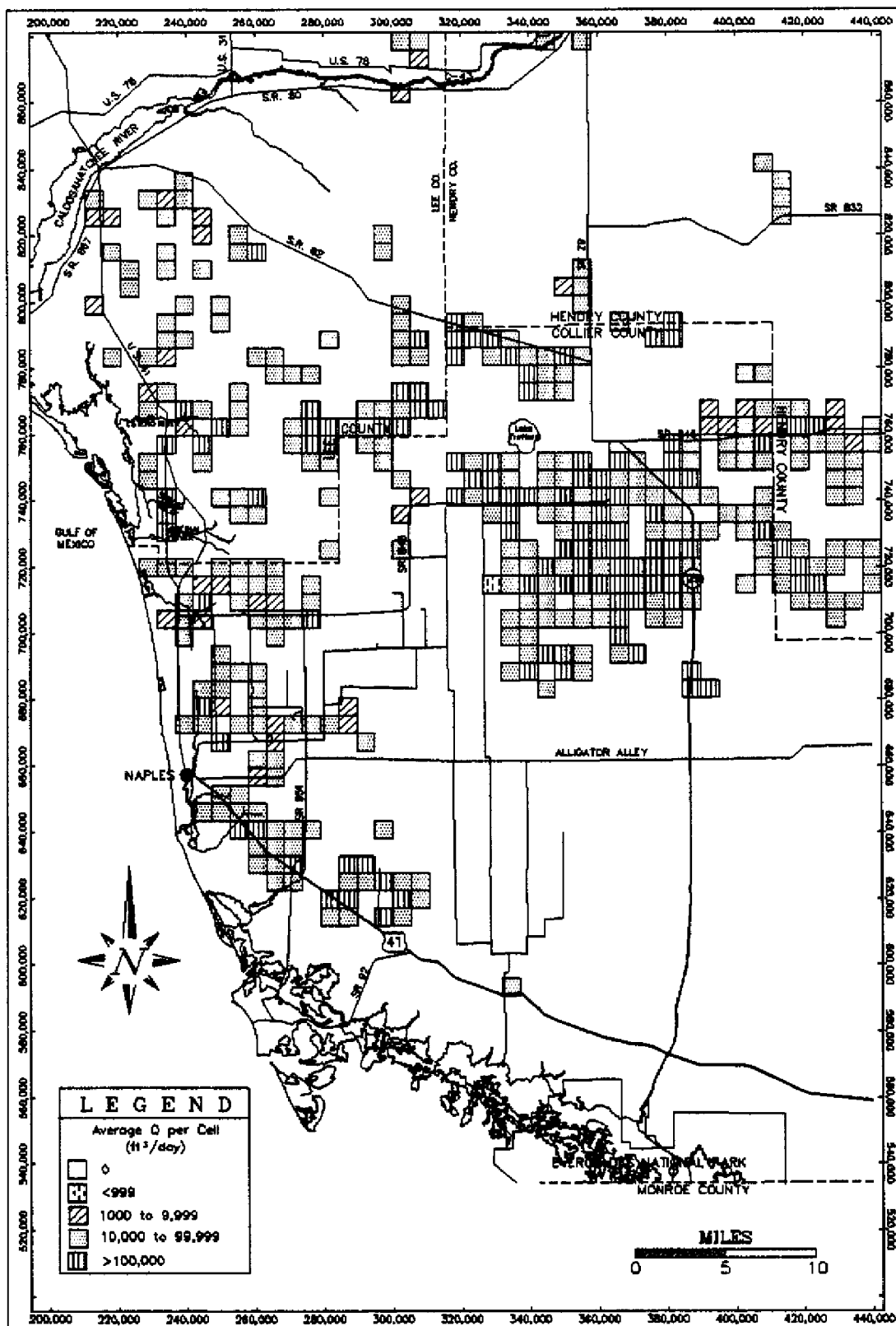
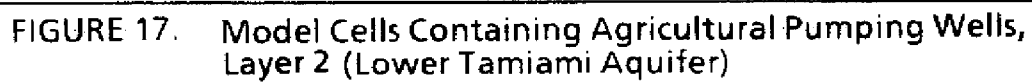


FIGURE-16. Model Cells Containing Agricultural Pumping Wells, Layer 1 (Surficial Aquifer)





Public Water Supply

Public water supply withdrawals were determined from monthly pumpage reports from each of the wellfields within the study area. Each report contained monthly pumpages for either individual wells at the facility or total monthly pumpages. If total monthly pumpages were reported, these volumes were divided proportionally amongst each well based on their pump capacity, total operating hours or information supplied by facility personnel. This was done to simulate withdrawals from individual pumping wells, because many of the wellfields in Collier and adjacent counties are distributed over several model cells and multiple aquifers. Therefore, each public water supply well had a given monthly pumpage for each of the 35 stress periods. The location of the public water supply wellfields and their wells are shown in Figure 19. Information on public water supply wells and their withdrawals over the transient calibration period is presented in Appendix G.

Domestic Self Supply

Domestic self supply withdrawals were calculated for those areas designated as residential and not presently served by a public water supply system. A composite land use map of the study area was used to determine total acreage for each residential land use type within a given cell. All residential areas currently served (not built out) by a public water supply system were delineated. For each residential land use type, a specific density per acre and per capita consumption was assigned. These values were then combined with total acreage to determine the withdrawals for each cell. Eighty percent of the withdrawals were assumed to be from the lower Tamiami aquifer with the remaining 20 percent from the Surficial aquifer. These percentages are based on an independent survey conducted by Missimer & Associates in the Golden Gate Estates area. For that portion of the model covering Lee County, domestic self supply withdrawals were calculated using the methodology described in Bower et al. (1990).

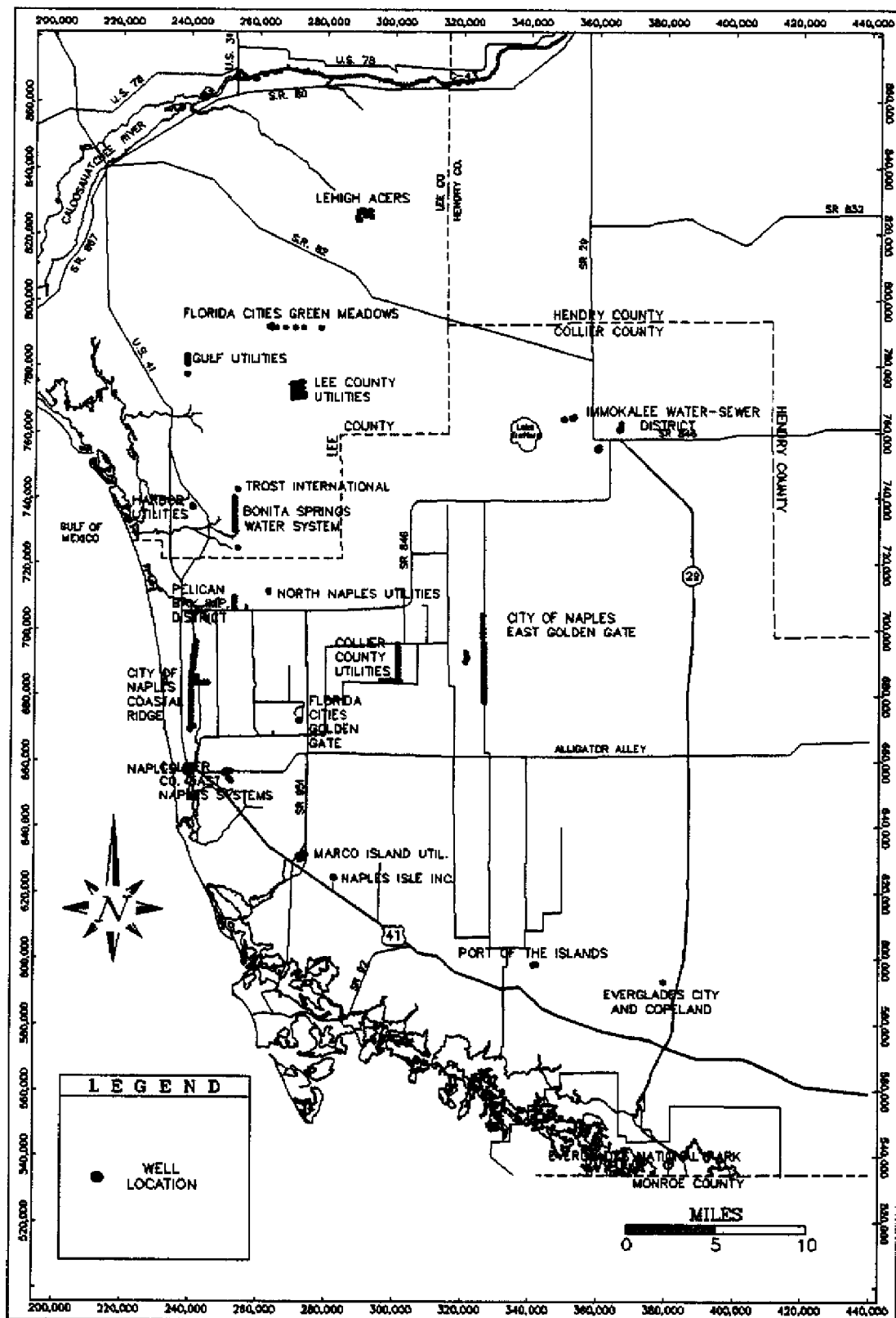


FIGURE 19. Location of Public Water Supply Wellfields

MODEL CALIBRATION

The western Collier County model was calibrated to both steady state and transient conditions. Figures 20, 21, 22 and 23 show the location of the ground water monitor wells used in the calibration process. The model was calibrated to ground water conditions that existed during February 1986 through December 1988. This period was chosen because it represented a period which included ample water level observations, surface water levels and hydrogeologic information. A multi-year period was chosen to show the effects of annual and seasonal variations in evapotranspiration, river stage, rainfall and pumpage.

STEADY STATE CALIBRATION

Steady state calibration served to make initial adjustments to aquifer parameters and stresses used in the model. These stresses included average values of recharge, evapotranspiration, pumpage and surface water stage elevations. The average values were calculated from the monthly values over the 35 month interval used in the transient calibration. The simulated head distribution generated during steady state runs were compared to water levels from monitor wells averaged over the calibration period. The final steady state model was re-run using the adjusted parameters generated during the transient calibration. This model subsequently provided much of the information concerning the ground water flow system in western Collier County and acted as the base for the sensitivity analyses.

TRANSIENT CALIBRATION

Transient calibration was completed by using 35 stress periods comprised of monthly intervals, with each stress period divided into five time steps. Starting heads for each layer were generated from water level data obtained from USGS ground water monitor wells for January 1986. End of month water level data for this month was chosen because it would accurately represent actual ground water levels at the beginning of the transient calibration period (February, 1986). The data was regionalized using a kriging interpolation

technique which provides a starting head value for each model cell.

During transient calibration, aquifer parameters and stresses are adjusted so that a general agreement exists between observed and computed ground water levels for a monitor well located in a particular model cell. The model is assumed to be calibrated when a good visual correlation exists between calculated and observed monthly water levels and when the majority (75%) of simulated monthly water levels fell within the calculated standard deviation for a particular monitor well. If limited historical water level data existed for a monitor well, so that an accurate standard deviation could not be calculated, the following ranges for the average difference between observed and computed head over the transient calibration period were used to calibrate the model:

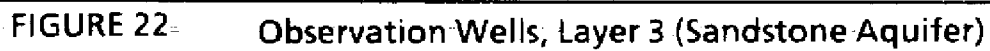
Layer 1 (Surficial aquifer)	± 2 feet
Layer 2 (lower Tamiami aquifer)	± 3 feet
Layer 3 (sandstone aquifer)	± 4 feet
Layer 4 (mid-Hawthorn Aquifer)	± 5 feet

These intervals are consistent with those used to calibrate the Lee County (Bower et al., 1990) and Hendry County (Smith, 1990) models. The same range of values were assumed to be valid for the western Collier County model because of similar hydrogeologic conditions and because the aquifers are part of the same regional ground water flow system.

The tolerance levels for the various aquifers were increased with depth for the following reasons:

1. Wetland and surface drainage patterns may be impacted by small changes in water levels within the Surficial aquifer.
2. Due to aquifer parameters and the confined nature of the deeper aquifers in this area, water levels fluctuate more widely in response to stresses as compared to an unconfined aquifer.





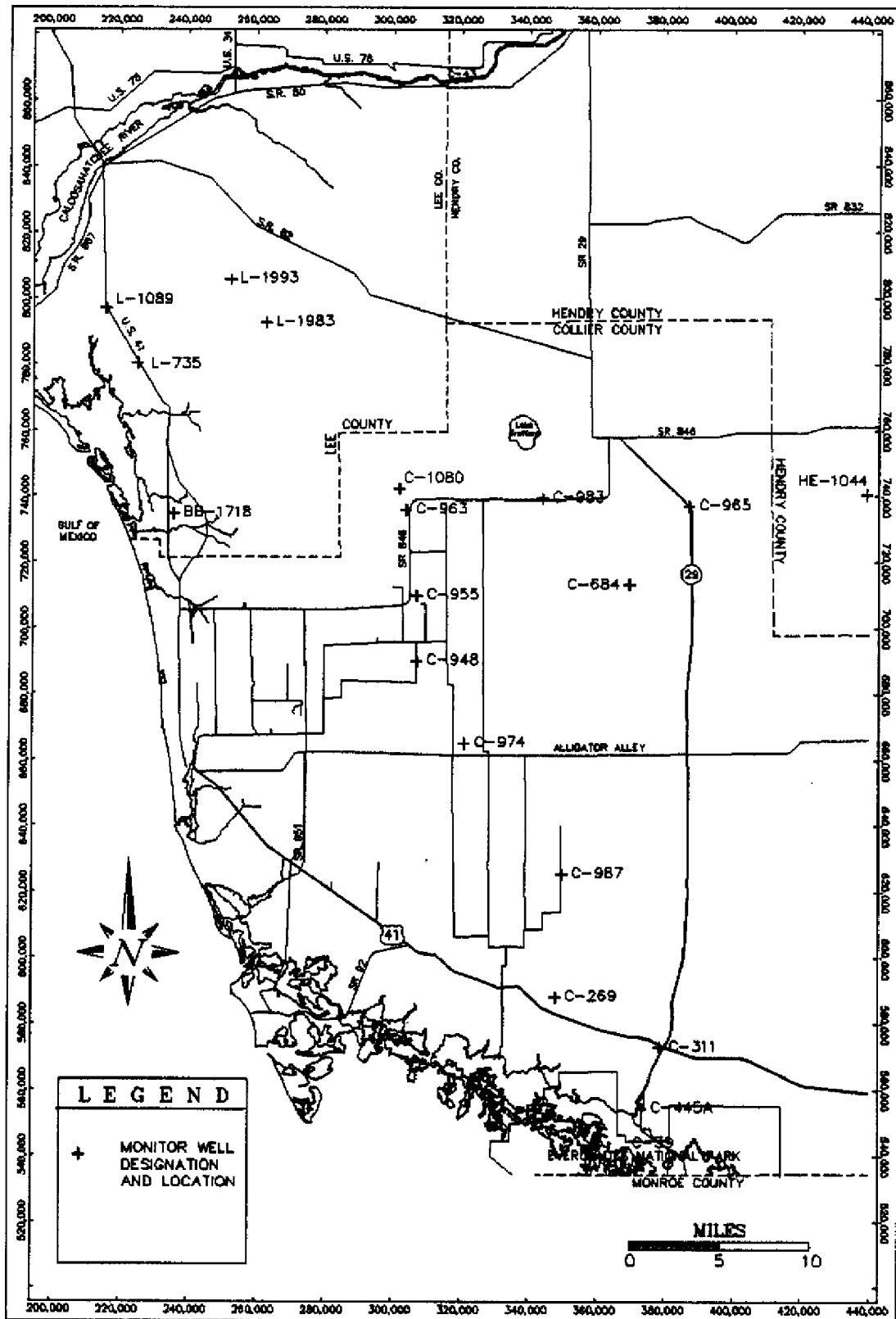


FIGURE 23. Observation Wells, Layer 4 (Mid-Hawthorn Aquifer)

3. Determining the actual regional water levels and deviation of simulated heads in the deeper aquifers is more difficult due to fewer available water level monitor wells.

Comparative hydrographs showing observed and simulated water levels were generated for those cells that contained USGS monitor wells within the model area. These hydrographs were used in the calibration process to determine how the simulated water levels changed over time in response to varying stresses and their general agreement to observed water levels. These comparative hydrographs are presented in Appendix H.

Agreement of model generated water levels with observed water levels can be affected by the following conditions:

1. Using monthly stress periods, simulated heads represent water levels at the end of each month. Observed water levels used in the model are taken over a period of several days near the end of any given month. Therefore, differences between observed and model simulated heads can be minimized by averaging these differences over the transient calibration period.
2. Ground water withdrawals from a model cell are simulated as a single stress located at the center of the cell. In reality, there may be numerous pumping wells located within a particular model cell. Combining all the well pumpages and locating it at the center of the cell may not accurately simulate actual condition. In addition, the simulated head in a model cell represents the average of all heads contained within that cell. However, actual water levels may vary greatly across a cell depending upon its dimension. In areas of intense pumpage, higher ground water gradients may develop causing water levels to vary significantly from the average. The location of a monitor well in relationship to the center of the cell and distance from an area of high ground water withdrawals can cause the observed head to vary greatly from the simulated head. However, the gradient across most of the model cells in this application were small enough for the simulated heads to

accurately depict observed ground water levels.

3. Most rainfall events that occur in the study area are of short duration and cover a relatively small area. Ground water levels in the Surficial Aquifer System respond quickly to these events. Only a limited number of monitor wells are located within a short distance to rainfall stations, so an intense rainfall event causing water levels to fluctuate may not be represented in the rainfall data. Therefore, using rainfall data from these stations in the calculation of net recharge may cause large differences between simulated and observed water levels within localized areas. The time at which ground water levels are taken in relationship to these events may also cause large discrepancies between simulated and observed water levels for particular months. The discrepancies caused by these factors can also be minimized by averaging the difference between observed and simulated heads over the transient calibration period when comparing results.

The model was run with the input data sets compiled in the manner as discussed in the Model Description section of this report. However, to calibrate the model, modifications to the initial data sets were necessary. These modifications are discussed in the following section.

Layer 1 (Surficial Aquifer)

The initial hydraulic conductivity array for layer 1 (Surficial aquifer) was reduced in the Coastal Ridge area along U. S. Highway 41 because the results of the initial kriged array was influenced by large conductivity values in the Golden Gate Estates area. Conductivity values in the eastern portion of the model area were also reduced because the kriging interpolation technique did not reasonably depict the hydraulic conductivity for the Surficial aquifer in this area. This problem is the result of inadequate hydrogeologic information for the Surficial aquifer in the model area east of SR 29.

The evapotranspiration surface in the Coastal Ridge and Immokalee areas of Collier

County and Bonita Springs area in Lee County was adjusted because of the inability of the kriging interpolation technique to accurately reflect the large difference in land surface between model cells within these areas. No changes were made to the specific yield values during the calibration process. Vertical conductance (Vcont) between layer 1 and layer 2 was varied in order to change the head distribution in the two layers. The final Vcont distribution representing the lower Tamiami confining unit over the model area falls within the range of values obtained from aquifer tests. In the Bonita Springs area, however, Vcont values were reduced to $0.0000010 \text{ day}^{-1}$ - $0.0000050 \text{ day}^{-1}$, which are slightly outside the range of leakance values obtained in this area. These values were assumed to be reasonable because a nested pair of wells in this area responds very slowly and shows small fluctuations in observed water levels in layer 1 (Surficial aquifer) when ground levels change significantly in layer 2 (lower Tamiami aquifer). The final leakance distributions used to represent the lower Tamiami confining unit in the calibration process is presented in Appendix A.

The average difference between observed and computed heads for the monitor wells in the various layers are shown in Figures 24 through 27. The average difference for each monitor well is positioned at the center of each model cell in which it is located, thus a slight discrepancy may be observed between these figures and those that show their exact locations.

Figure 24 shows the average difference between the observed and simulated heads in layer 1 (Surficial aquifer) over the 35 month calibration period. The majority of the monitor wells fall within the tolerance range of ± 2 feet for the average difference and within the confidence bands using the wells' calculated standard deviation. Computed water levels in the cells occupied by wells C-981, C-1071 and L-1992, do not fall within the desired tolerance range. Inspection of aerial photographs reveal large areas of agricultural development within the cells occupied by C-981, C-1071, and L-1992. These areas may have been unpermitted or the permits were missing during the compilation of the agricultural water use database. These wells may have also been designated to withdraw from a different aquifer in the initial water use permit

application or influenced by small capacity agricultural drainage canals. The result of not accurately simulating these withdrawals or drainage canals may have caused the computed heads to be significantly higher than observed heads within these localized areas.

Layer 2 (Lower Tamiami Aquifer)

During the transient calibration process, no changes were made to the initial transmissivity or specific storage values. Minor modifications were made to the vertical conductance term between layers 1 and 2 and layers 2 and 3 to alter the head distribution in layer 2 (lower Tamiami aquifer). Final leakance values representing the upper Hawthorn confining unit range from $0.0000055 \text{ day}^{-1}$ to $0.0008800 \text{ day}^{-1}$, which are within the range of reported values from aquifer tests. Appendix A shows the final leakance distribution of the lower Tamiami and upper Hawthorn confining units used in the transient calibration process.

The agreement between the observed and simulated water levels for layer 2 (lower Tamiami aquifer) is shown in Figure 25. Of the 46 monitor wells, 72 percent show an average difference of less than ± 1 foot, with only four wells falling outside the specified tolerance range of ± 3 feet. Monitor wells C-988 and C-1073 show an average difference of -3.82 and -4.19 feet between observed and simulated water levels, respectively. Both of these wells are located in areas of high agricultural development and the simulated heads may reflect the results of overestimation of pumpage from this aquifer in this area. The opposite results are seen in monitor wells L-738 and L-5723, located in the Bonita Springs area of Lee County. These wells show high positive average differences between observed and simulated water levels and may reflect the underestimation or inaccurate trends of domestic self supply withdrawals from this highly urbanized area. The comparative hydrographs for these wells (Appendix H) shows the computed heads do not accurately reflect monthly water levels or trends found in the observed water level data. The hydraulic parameters within these areas were also changed within reasonable limits. These changes did not significantly affect the quality of calibration of these wells.

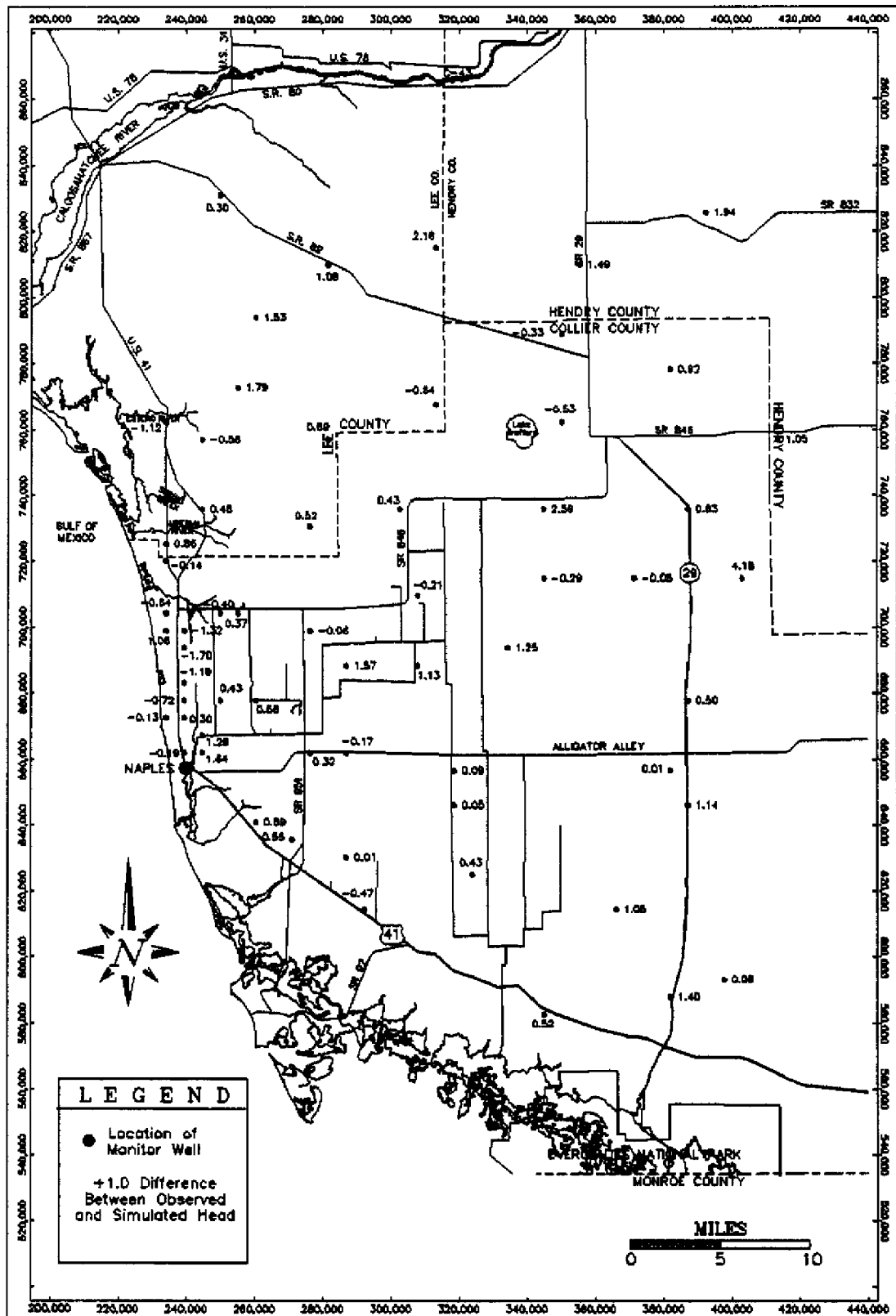


FIGURE 24. Average Difference Between Observed and Computed Water Levels, Layer 1 (Surficial Aquifer)

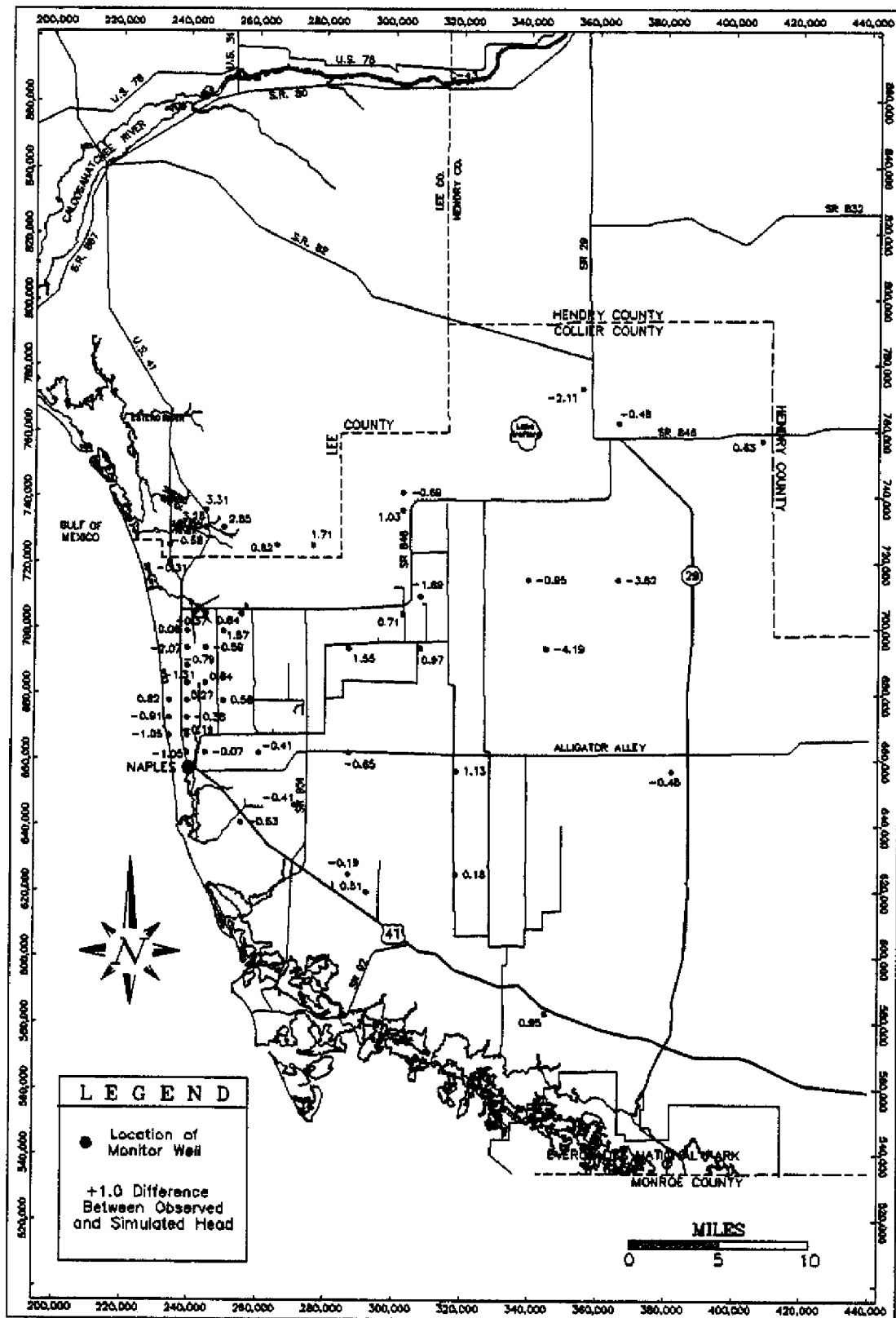


FIGURE 25. Average Difference Between Observed and Computed Water Levels, Layer 2 (Lower Tamiami Aquifer)

Layer 3 (Sandstone Aquifer)

The initial transmissivity array representing this layer was altered only slightly and no changes were made to the specific storage values during the transient calibration process. The head distribution in this layer was primarily modified by changing the leakance values between layers 2 and 3 and layers 3 and 4. However, slight changes in leakance values between layers 3 and 4 caused significant changes in the head distribution within layer 3. The large head gradient that exists between layers 3 and 4 is the primary driving force controlling upward leakance and represents the majority of the recharge into layer 3. The final leakance distributions representing the upper and lower Hawthorn confining units used in the model calibration process are presented in Appendix A.

Figure 26 shows the average difference between observed and simulated water levels for monitor wells in the sandstone aquifer (Layer 3). The average difference for the majority of the monitor wells within the sandstone aquifer are within the acceptable tolerance range of ± 4 feet and monthly simulated heads fall within their confidence band based on their computed standard deviation. However, monitor wells C-1079, L-1984 and L-1998 fell outside these tolerance ranges. Similar results occurred for L-1984 and L-1998 in the Lee County Model. Bower et al., (1990) suggests these discrepancies are attributed to cell wide averaging due to their proximity to the Green Meadow and Corkscrew wellfields. The large discrepancies found in C-1079 may be due to inaccurate (under-estimated) agricultural withdrawals from this aquifer within this localized area or to cell-wide averaging.

Layer 4 (Mid-Hawthorn Aquifer)

During transient calibration, no changes were made to the initial transmissivity or specific storage arrays. The leakance values between layers 4 and 5, which represents the lower Hawthorn confining unit, was altered slightly from those generated during steady state calibration. Minor alterations in the leakance distribution that separate these two layers caused significant head distribution changes in layer 4. The final leakance distribution representing the lower Hawthorn confining unit

within the model area range from 0.0000008 day⁻¹ to 0.0000200 day⁻¹ and is presented in Appendix A.

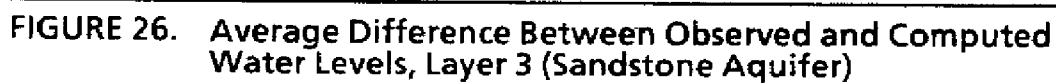
The average differences between observed and computed water levels for layer 4 are shown in Figure 27. The majority (92%) of the monitor wells fell below the specific tolerance level of ± 5 feet. The only significant difference between observed and simulated water range occurs in monitor well L-1983. Computed water levels generated by the Lee County Model (Bower et al., 1990) were also consistently lower than observed water levels for this well. The lower simulated water levels may reflect overestimated domestic self supply withdrawals. Geologically, the mid-Hawthorn aquifer both thins and dips rapidly to the southwest which may isolate this portion from responding to conditions present to the north and west (Bower et al., 1990).

RESULTS

Transient Calibration

Layer 1 (Surficial Aquifer). Figures 28 and 29 show the simulated head distribution for April 1988 (end of dry season) and October 1988 (end of wet season) in layer 1. The highest water table altitudes occur north of Immokalee and flow radially from this area which also corresponds to the highest land elevation in the model area. A ground water divide also develops across the model area along a N40W trend and fluctuates in response to areal recharge and pumpage. The lowest levels occur along the coast where ground water discharges into the Gulf of Mexico. Comparison between Figures 28 and 29 show very little seasonal fluctuation with most occurring near areas of intense agricultural withdrawals.

Layer 2 (Lower Tamiami Aquifer). Figures 30 and 31 show the simulated head distribution in layer 2 (lower Tamiami aquifer) in April and October 1988. Comparison between layer 1 (Surficial aquifer) and layer 2 (lower Tamiami aquifer) shows similar head distributions and resulting flow patterns. However, both simulated and natural head distributions are lower in layer 2 over the majority of the model area. Seasonal fluctuations are more apparent in layer 2 due to its semi-confined nature and larger simulated withdrawals. The larger, more intensive water users are seen as cones of depression on these



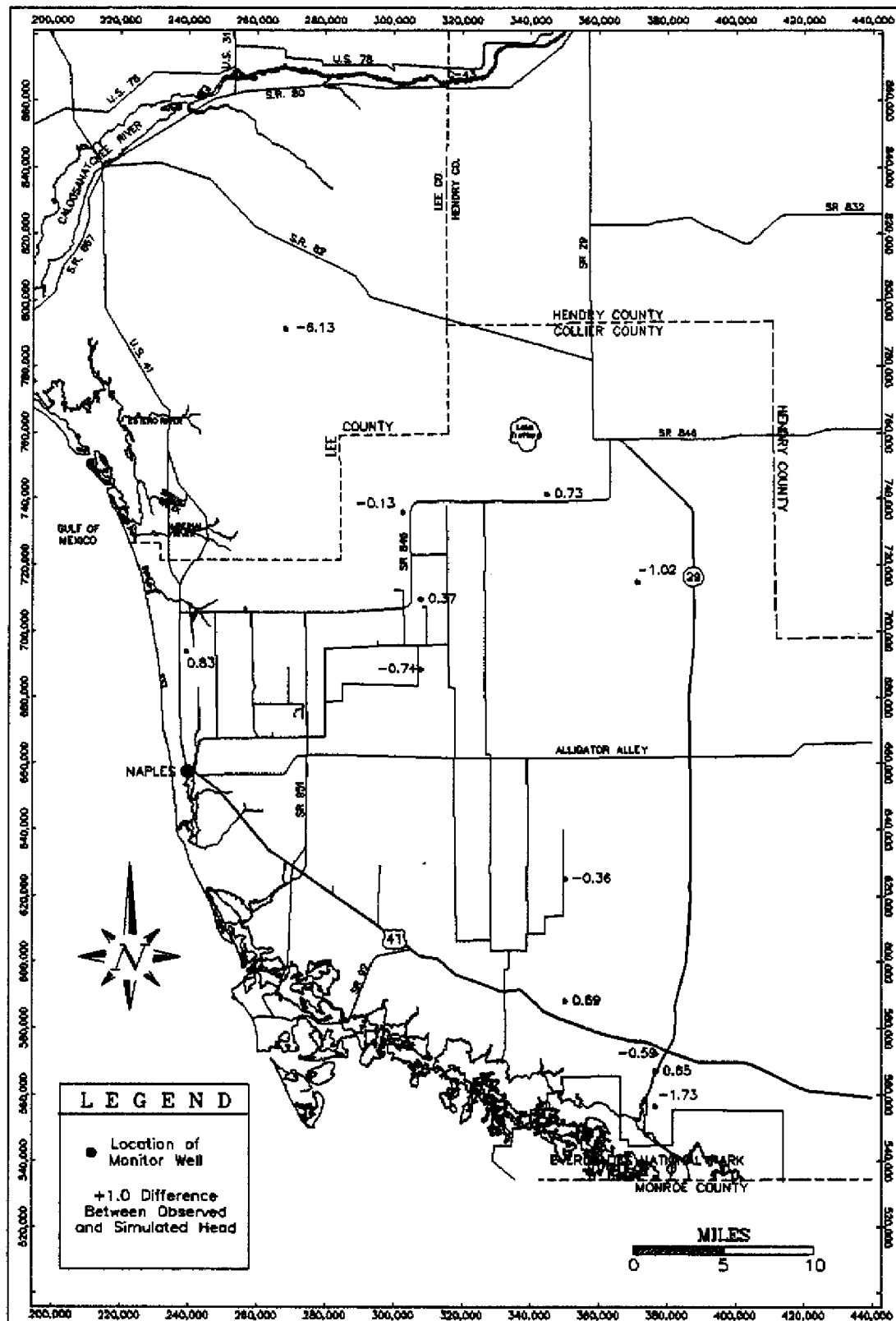


FIGURE 27. Average Difference Between Observed and Computed Water Levels, Layer 4 (Mid-Hawthorn Aquifer)

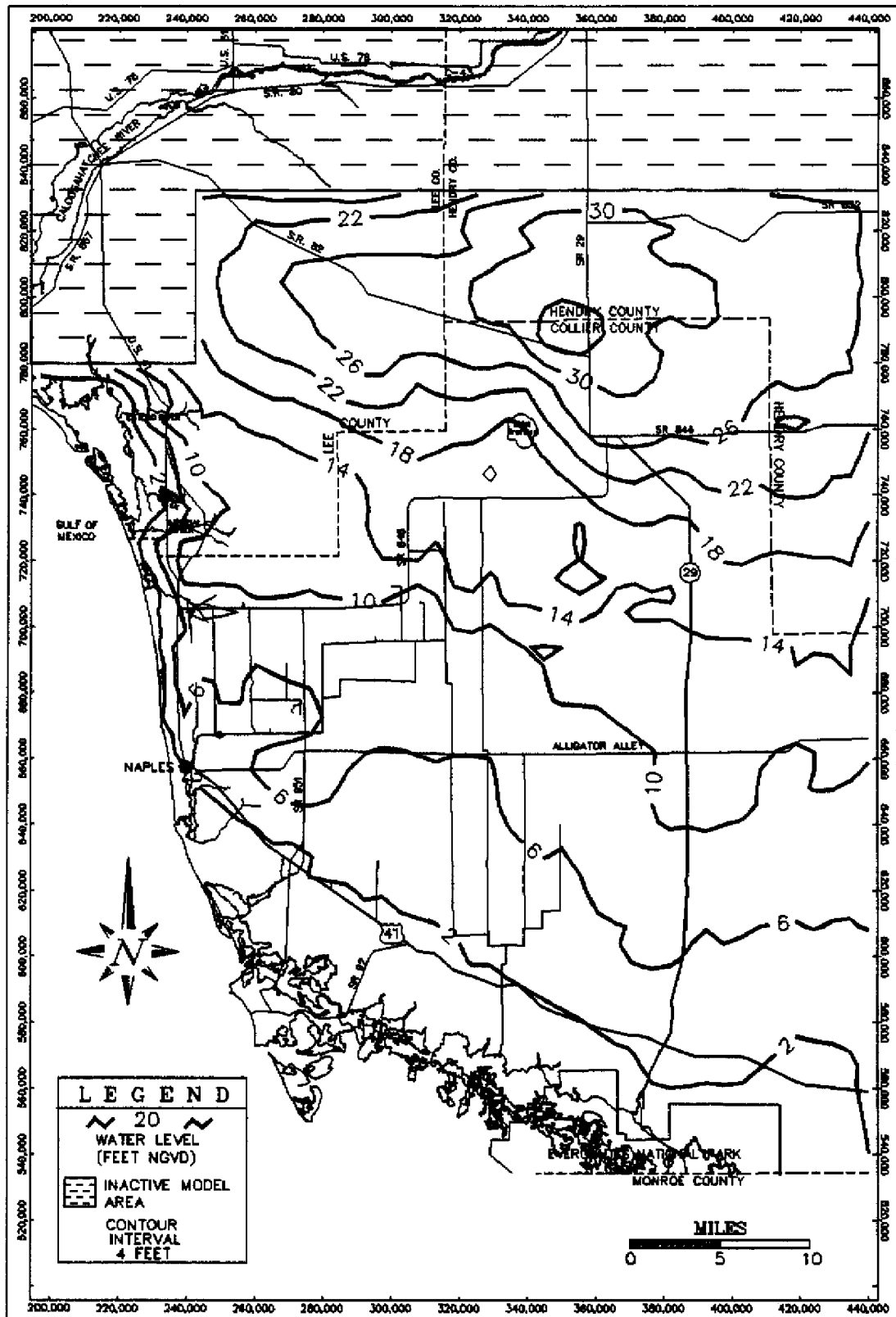


FIGURE 28. Computed Water Levels, Layer 1
(Surficial Aquifer) April 1988

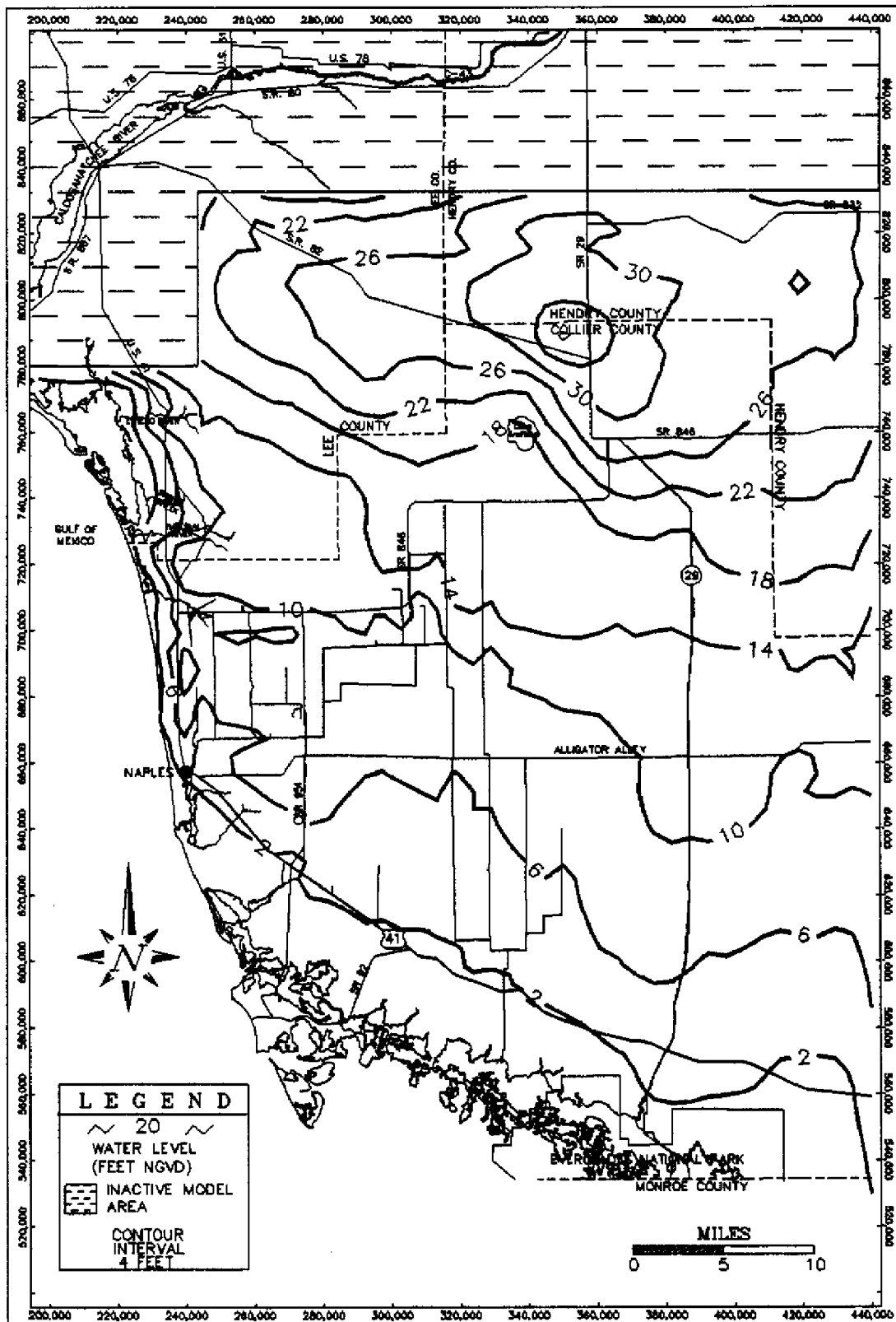


FIGURE 29. Computed Water Levels, Layer 1
(Surficial Aquifer) October 1988

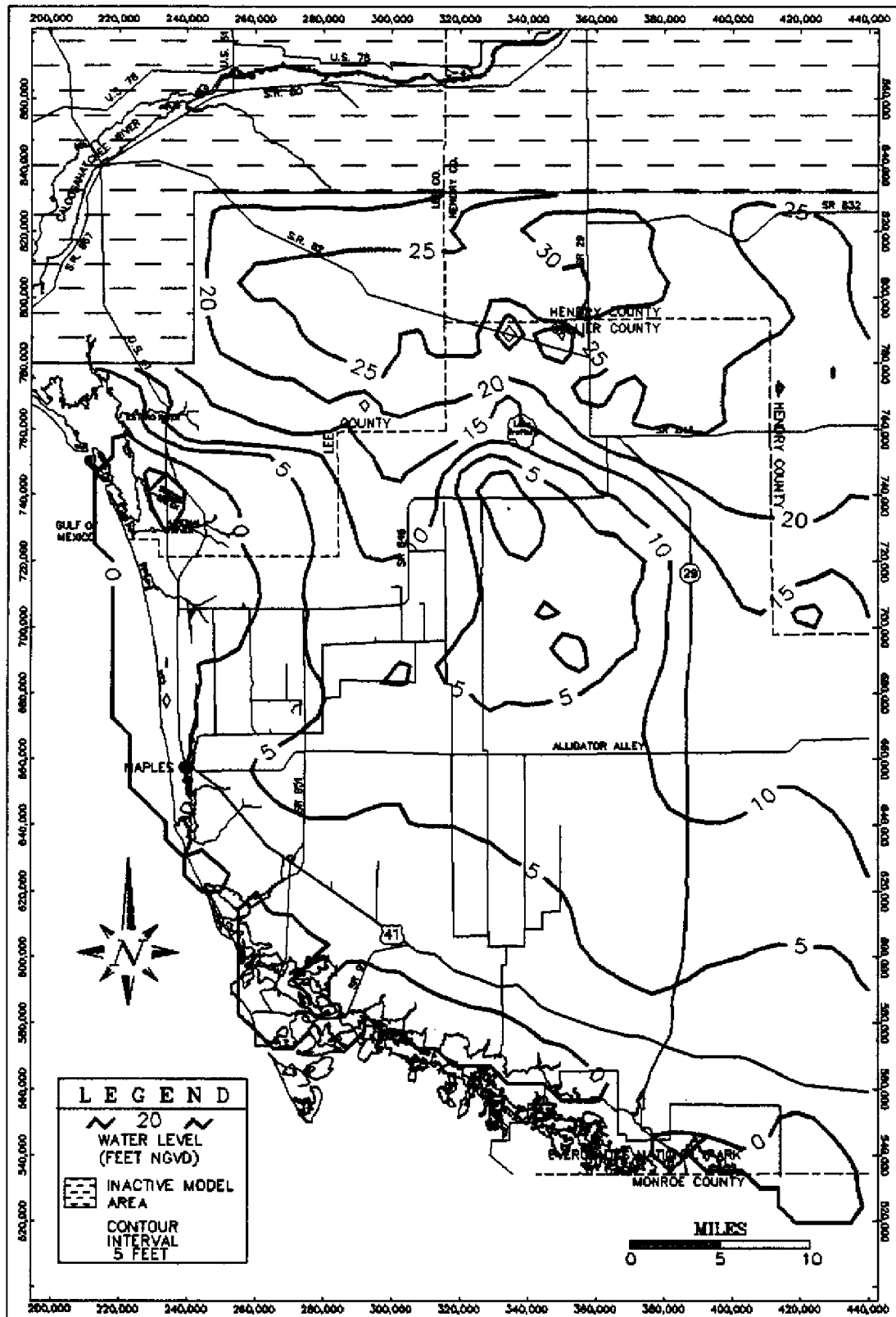


FIGURE 30. Computed Water Levels, Layer 2
(Lower Tamiami Aquifer) April 1988

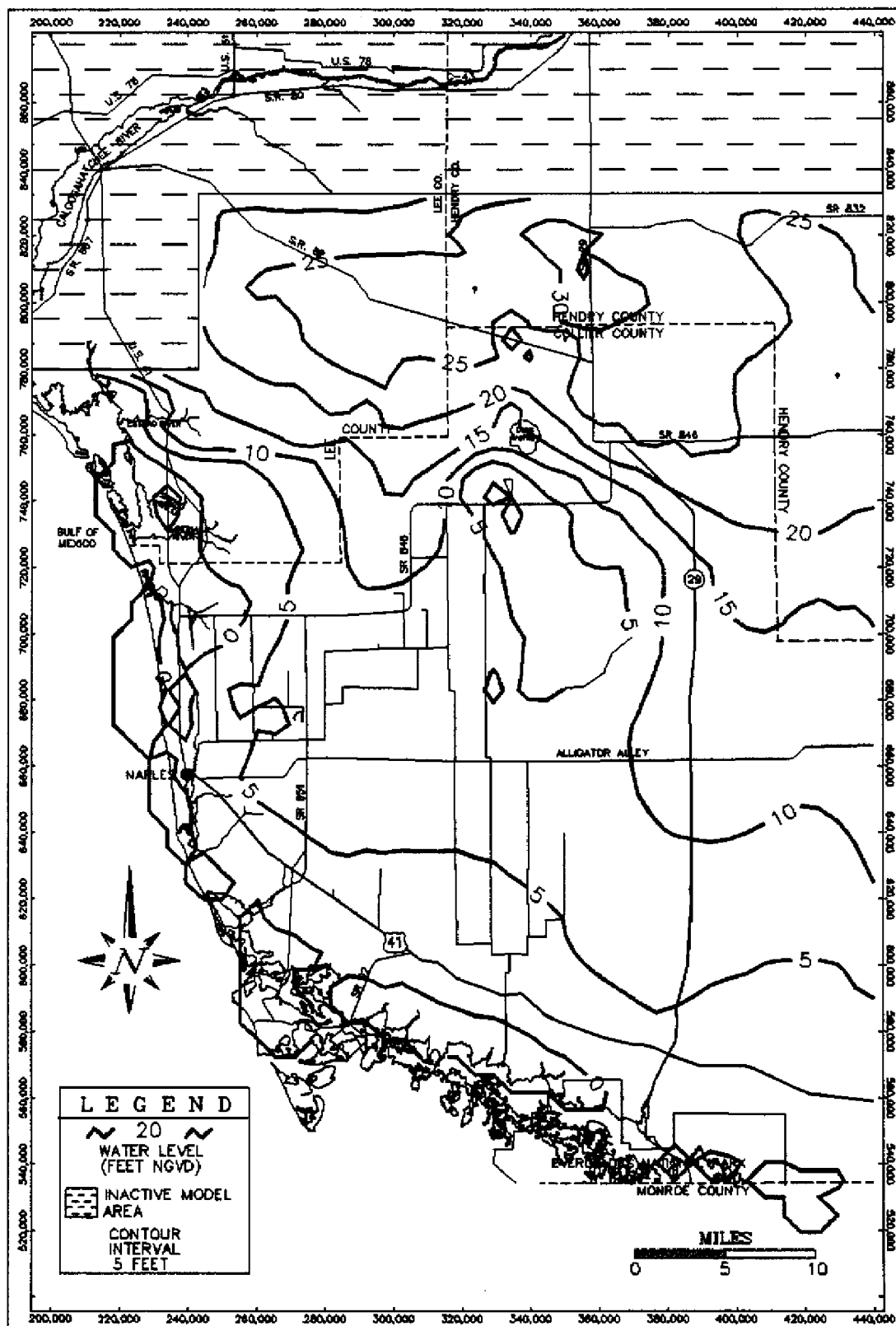


FIGURE 31. Computed Water Levels, Layer 2
(Lower Tamiami Aquifer) October 1988

maps. Simulated head distributions in layer 2 are consistent with observed water level distributions for these months.

Layer 3 (Sandstone Aquifer). Figures 32 and 33 show the computed head distributions in the sandstone aquifer for April and October 1988. Large withdrawals from the sandstone aquifer causes deep cones of depression of small areal extent. These deep cones of depression are due to its relatively poor hydraulic characteristics and limited areal extent. Seasonal fluctuation are also more apparent in areas of intense pumpage.

Layer 4 (Mid-Hawthorn Aquifer). The mid-Hawthorn simulated head distributions for April 1988 and October 1988 are shown in Figures 34 and 35. A comparison between the end of dry (Figure 34) and end of wet (Figure 35) seasons simulated head distributions show only minor fluctuations. These figures also reveal only limited withdrawals from this aquifer in Collier County. The majority of the pumpage occurs in central Lee County or outside the model area in southern Ft. Myers and Cape Coral area.

Steady State

Time dependent variables such as recharge, evapotranspiration, well withdrawals and surface water levels were averaged over the 35 month transient calibration period. The calibrated aquifer hydraulic parameters from the transient run were used in the final steady state runs. These calibrated parameters served as the bases for the sensitivity analysis and provided information on the ground water flow system in Collier County.

Layer 1 (Surficial Aquifer). The arrows shown in Figure 36 indicate the magnitude and direction of simulated horizontal flow in the Surficial aquifer. The magnitude and direction of each of the arrows represent the flow between adjacent cells under average conditions. These vectors show that horizontal flow in the Surficial aquifer is primarily towards large surface water bodies, major canals and areas of intense ground water withdrawals.

The volumetric budget for layer 1 (Surficial aquifer) is shown in Figure 37. Analysis of this budget indicates that recharge from precipitation (RECH) accounts for approximately 95 percent of the total inflow to the aquifer. The remaining five percent results

from inflows entering through the northern and eastern model boundaries (GEN) and upward leakance from the lower Tamiami aquifer (LAY2). However, 52 percent of the water within the Surficial aquifer is lost by evapotranspiration (ET). A significant amount of water is also removed by an extensive network of canals (CAN) and as a result of downward leakance into the lower Tamiami aquifer (LAY2). Agricultural (AGW), domestic supply (DSS) and public water supply (PWS) withdrawals account for approximately 14 percent of the total outflows with the majority (10-12%) for agricultural and landscape irrigation use (AGW).

Layer 2 (Lower Tamiami Aquifer). Figure 38 shows the magnitude and direction of simulated horizontal flow in the lower Tamiami aquifer. The flow vectors indicate areas of significant withdrawals from both agricultural and public water supply wells.

Analysis of the volumetric budget for layer 2 (lower Tamiami Aquifer) is shown in Figure 39. Downward leakance from the overlying Surficial aquifer (LAY1) and upward leakance from the sandstone aquifer (LAY3) account for 81.6% and 10.5% of the inflows, respectively. Figure 40 shows the relative magnitude and direction of vertical leakance across the lower Tamiami confining unit under steady-state conditions. Approximately eight percent of the total volume of water enters the aquifer along the model boundaries from Lee and Hendry counties (GEN). Average withdrawals from the various users represents approximately 72 percent of the outflows from this aquifer with agricultural and landscape withdrawals (AGW) responsible for 138.4 MGD of the 273.7 MGD of the total steady-state pumpage.

Layer 3 (Sandstone Aquifer). The sandstone aquifer is used extensively in the Lehigh area of Lee County and Immokalee area of Collier County as indicated by the large horizontal flow vectors seen in Figure 41. Figure 42 shows the areas of increased leakance from the overlying lower Tamiami aquifer through the upper Hawthorn confining unit associated with these withdrawals.

Figure 43 shows the volumetric budget for layer 3 (sandstone aquifer) and indicates that flow into the aquifer occurs through the confining layers from the lower Tamiami (LAY2)

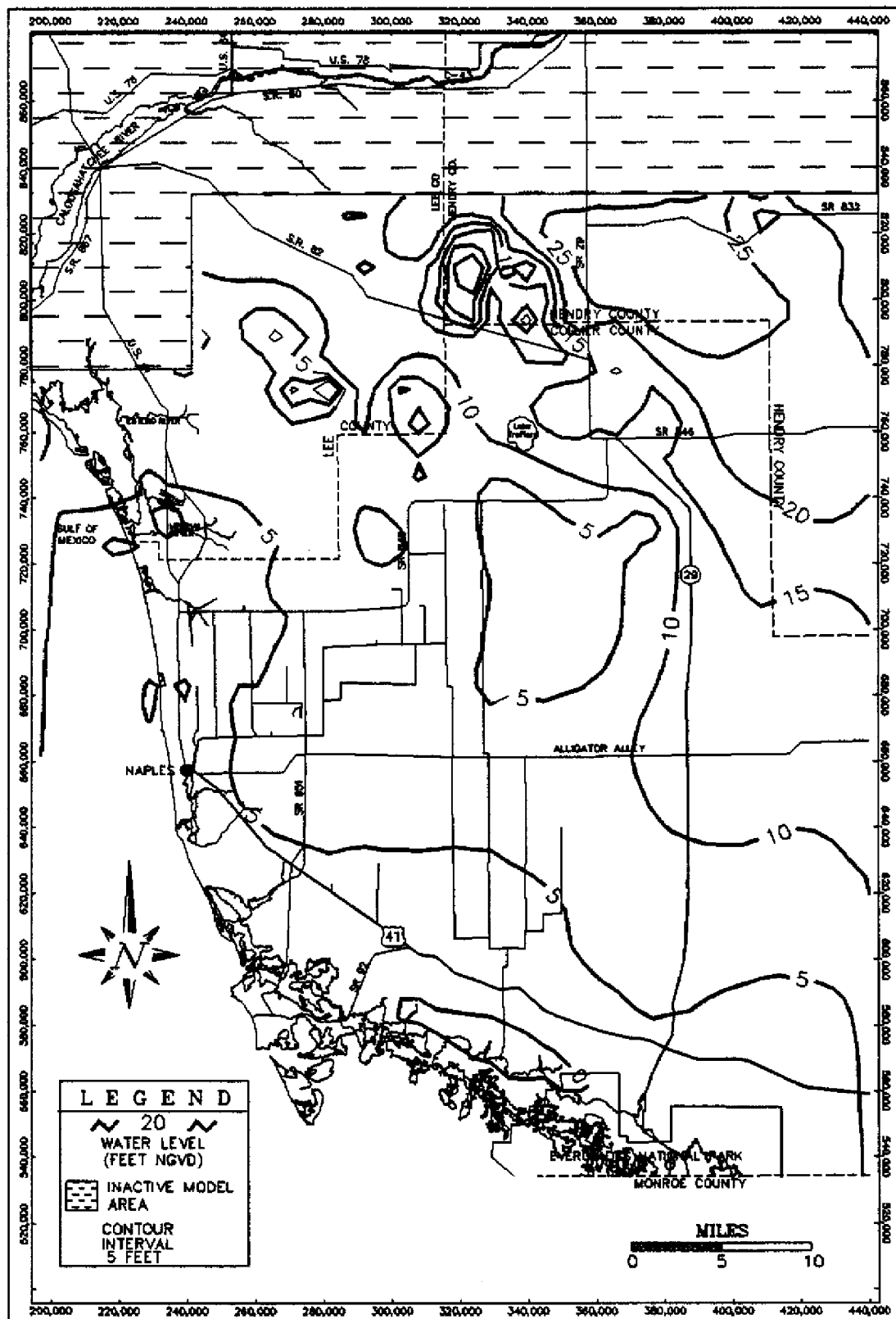


FIGURE 32. Computed Water Levels, Layer 3
(Sandstone Aquifer) April 1988



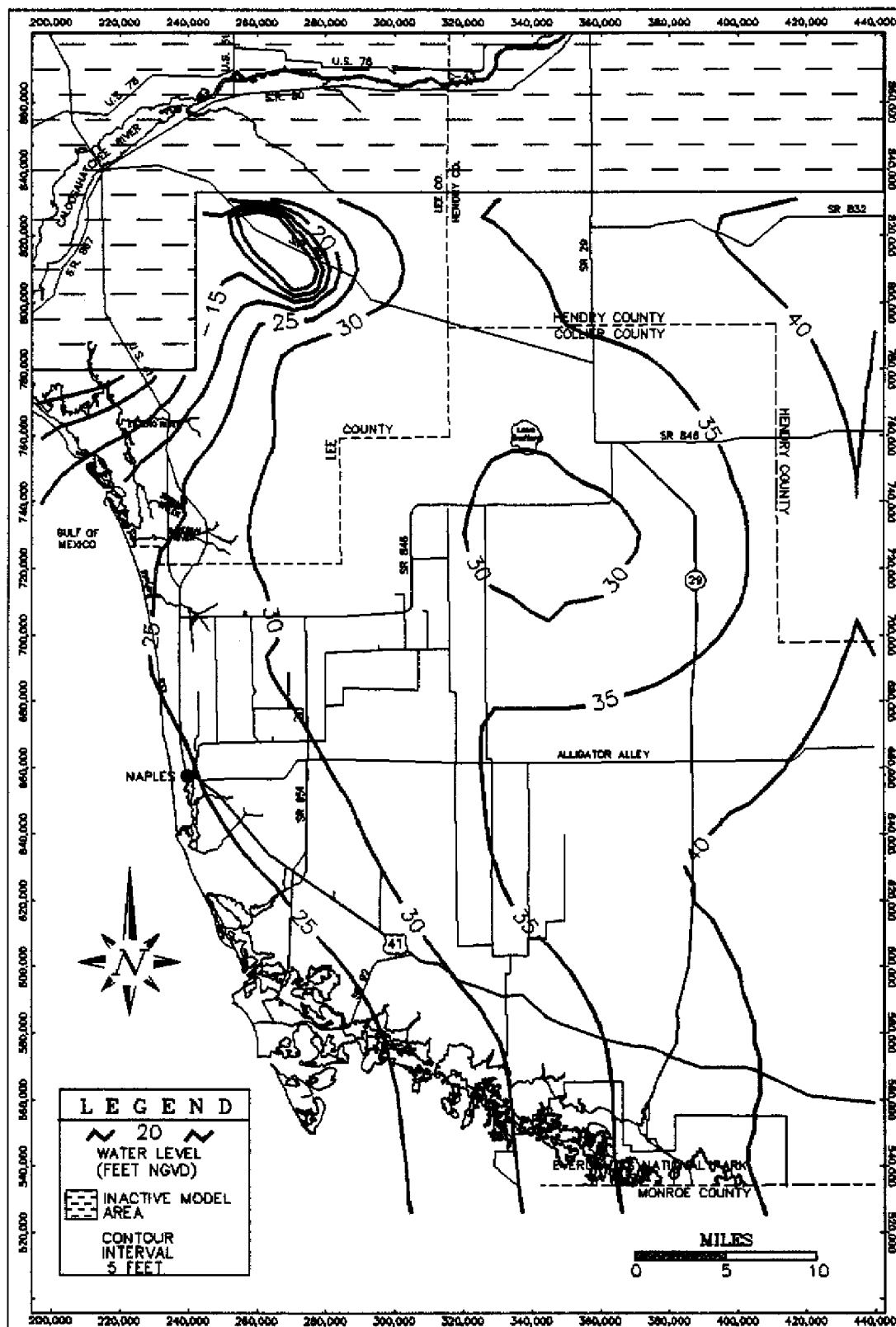


FIGURE 35. Computed Water Levels, Layer 4
(Mid-Hawthorn Aquifer) October 1988

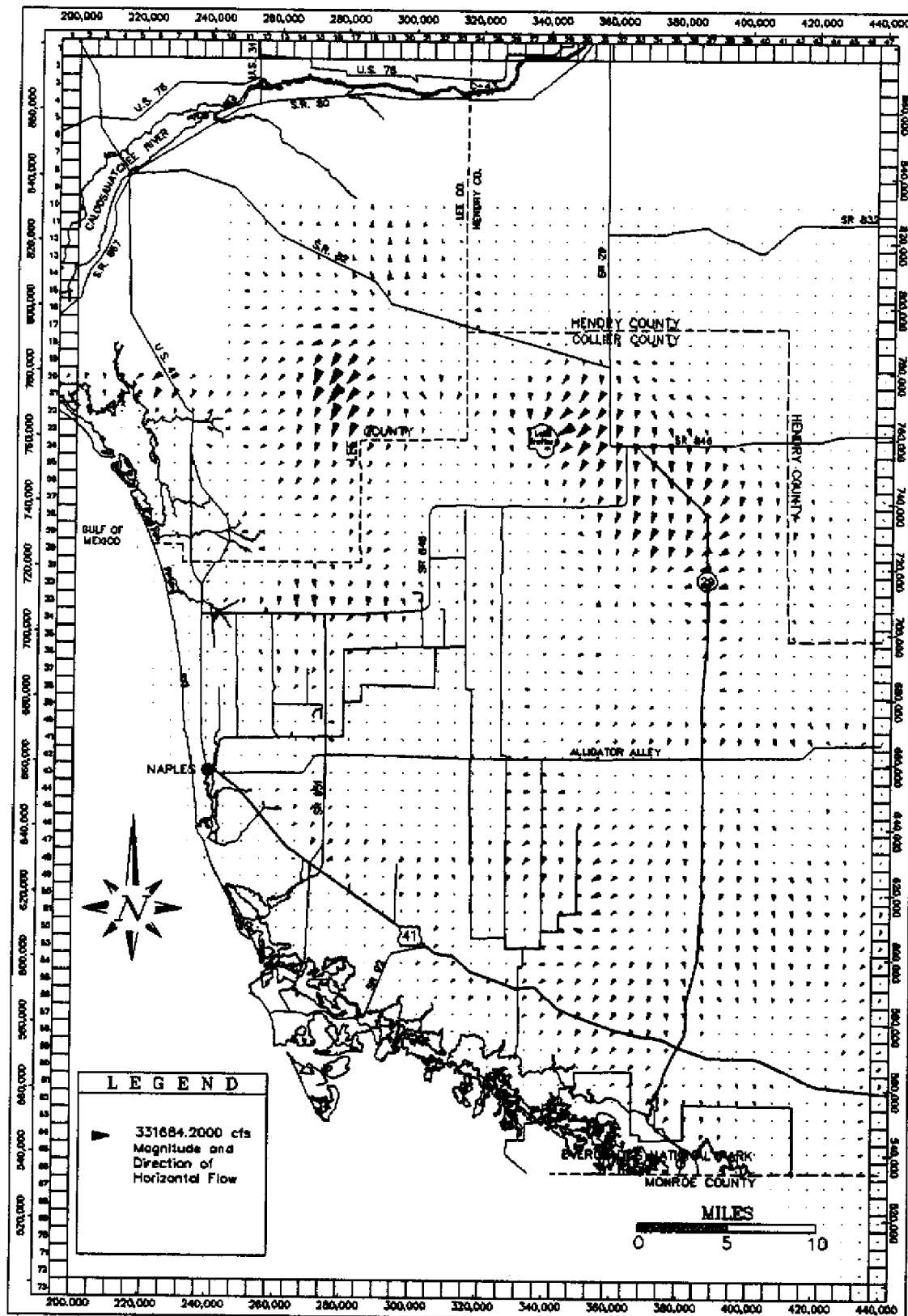


FIGURE 36. Simulated Steady State Horizontal Flow Vectors, Layer 1 (Surficial Aquifer)

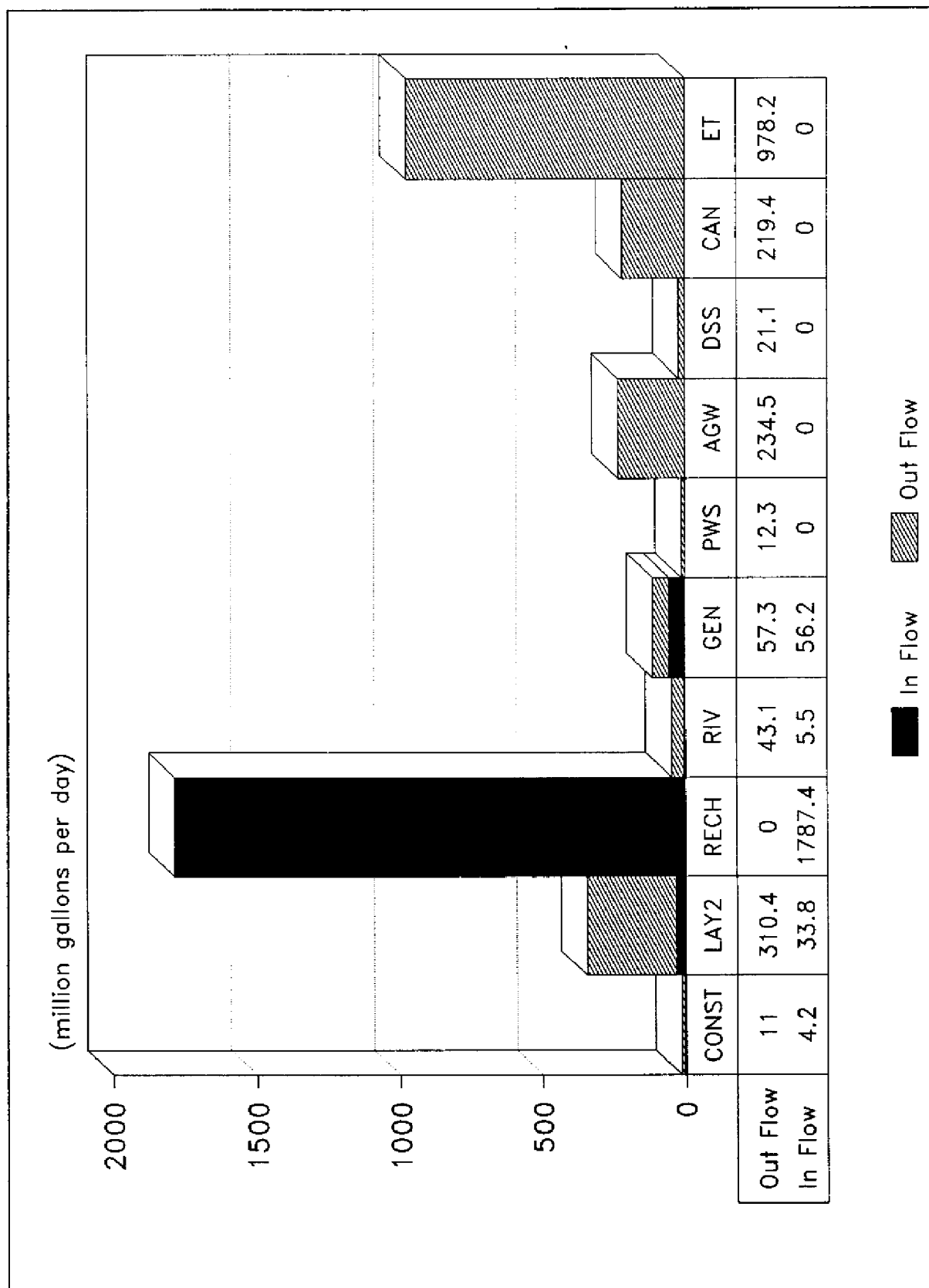


FIGURE 37. Volumetric Budget, Layer 1 (Surficial Aquifer) Steady State Conditions

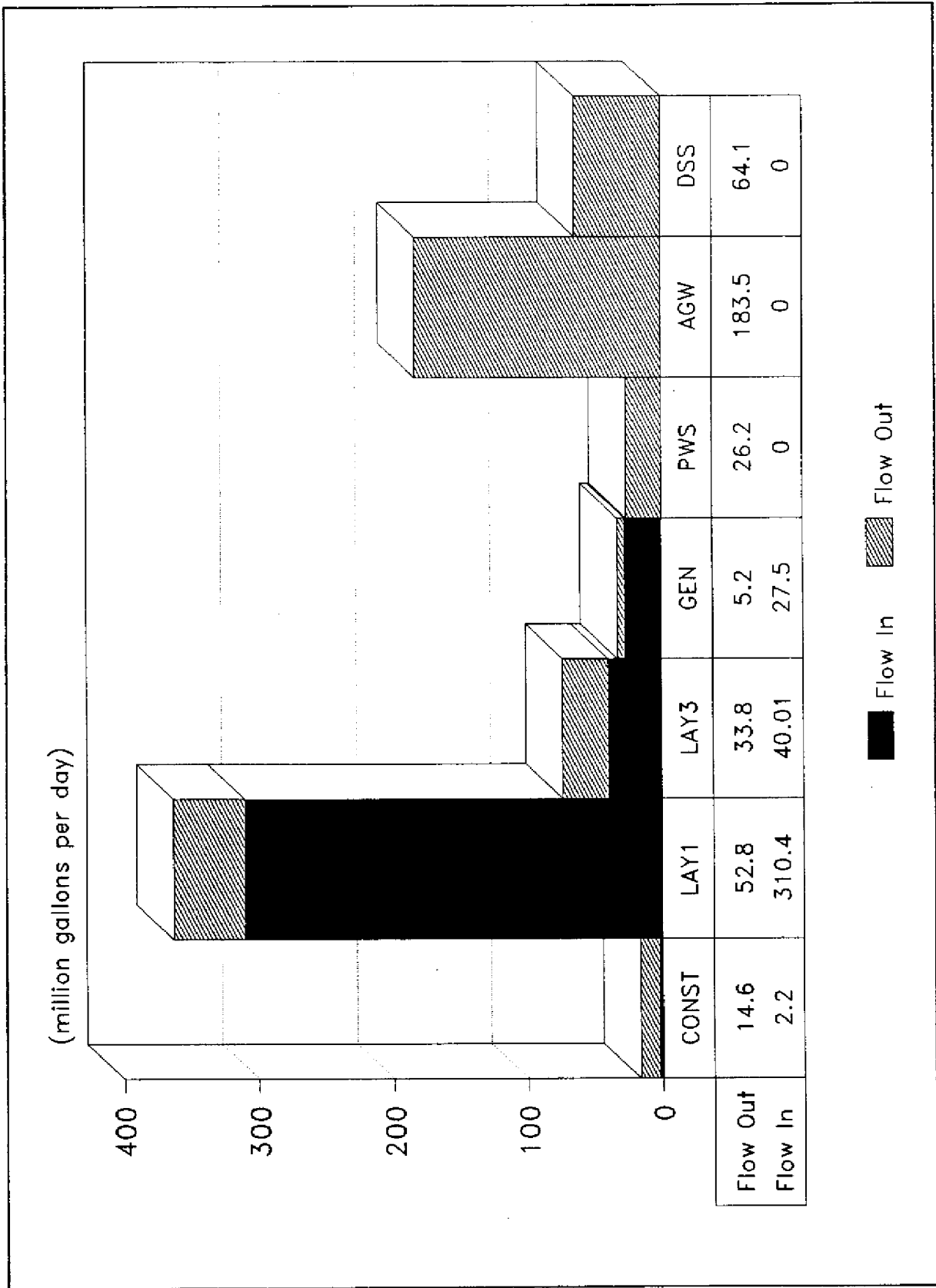


FIGURE 39. Volumetric Budget, Layer 2 (Lower Tamiami Aquifer) Steady State Conditions

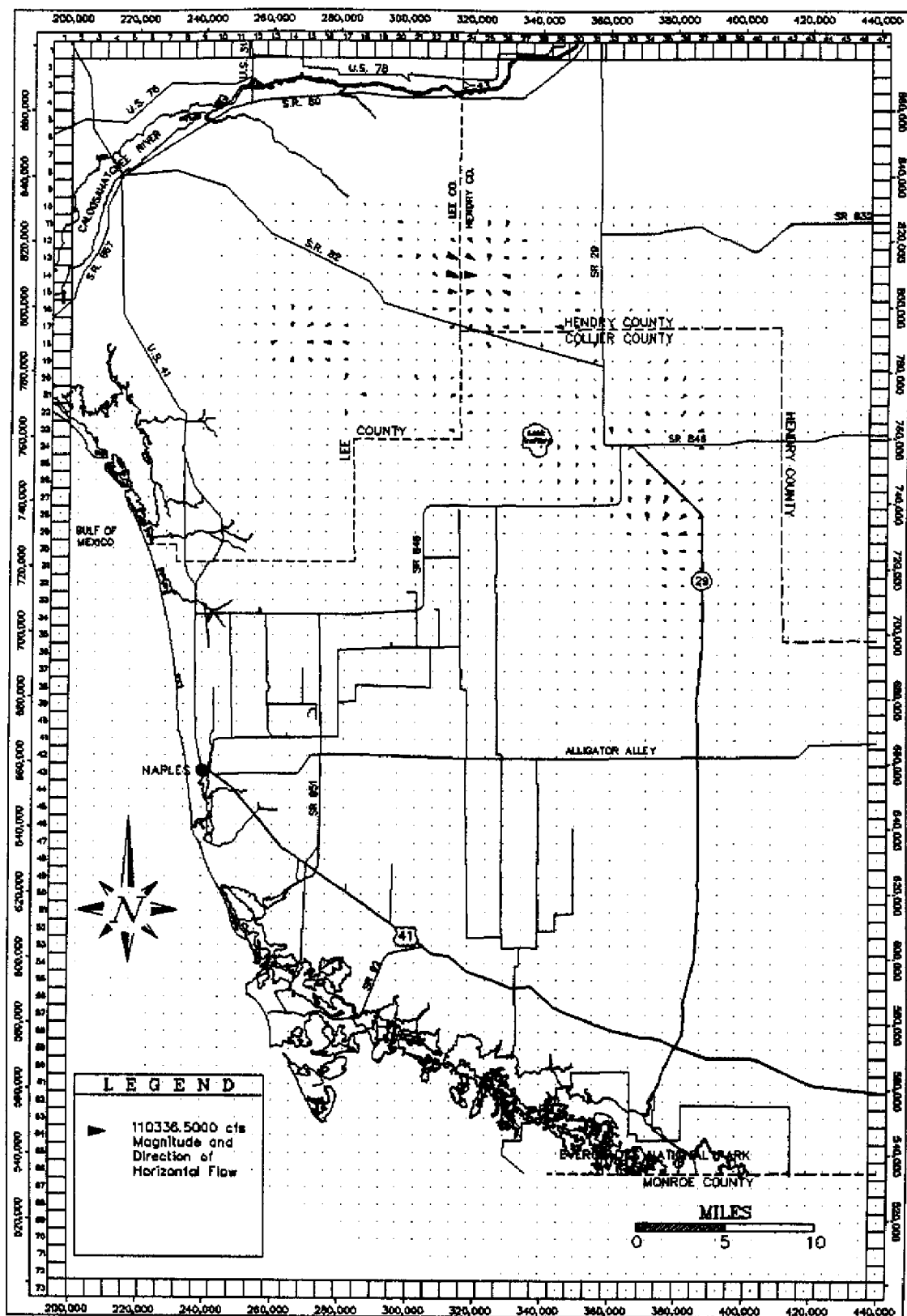


FIGURE 41. Simulated Steady State Horizontal Flow Vectors, Layer 3 (Sandstone Aquifer)

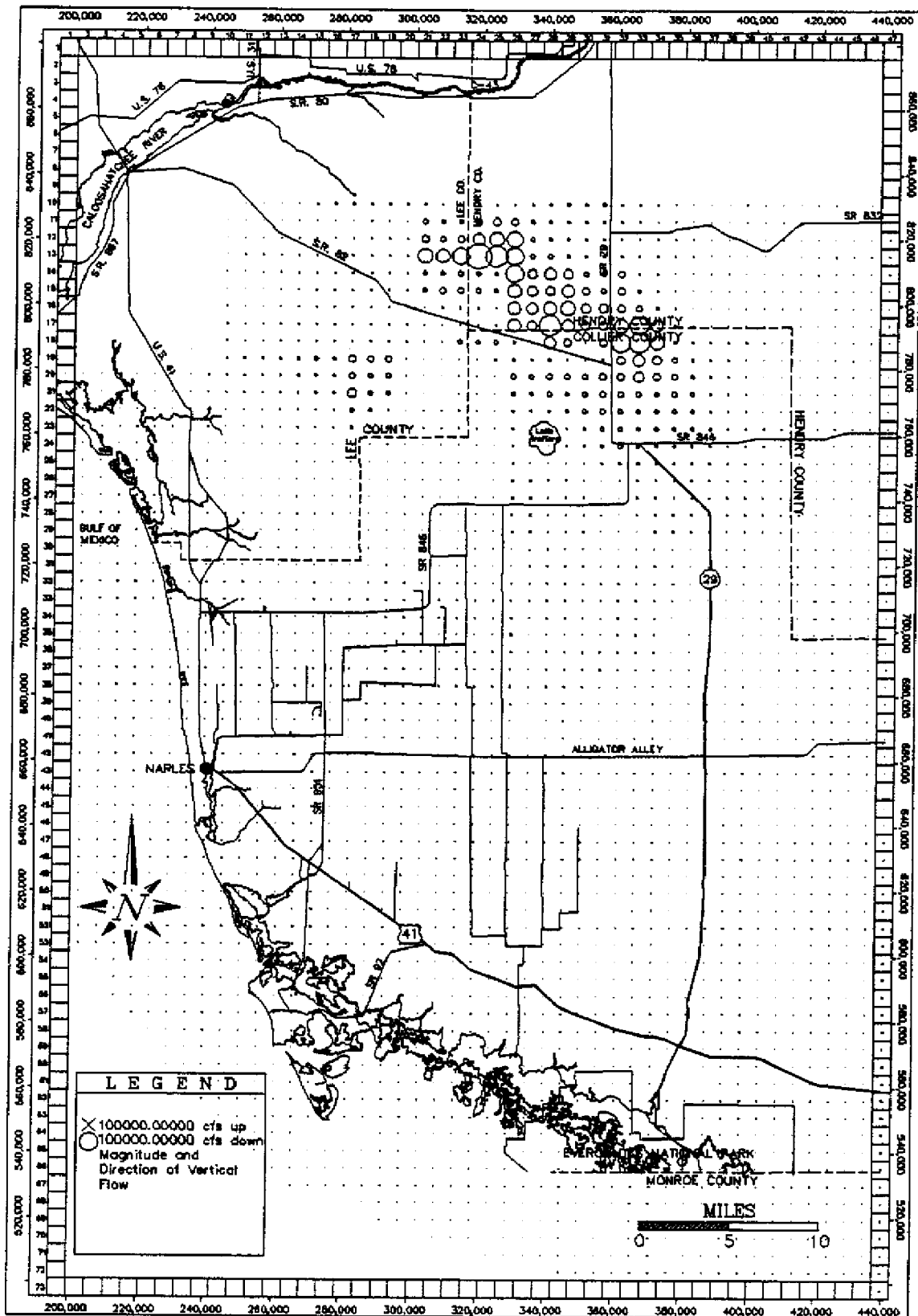


FIGURE 42. Simulated Steady State Vertical Flow Between Layer 2 (Lower Tamiami Aquifer) and Layer 3 (Sandstone Aquifer)

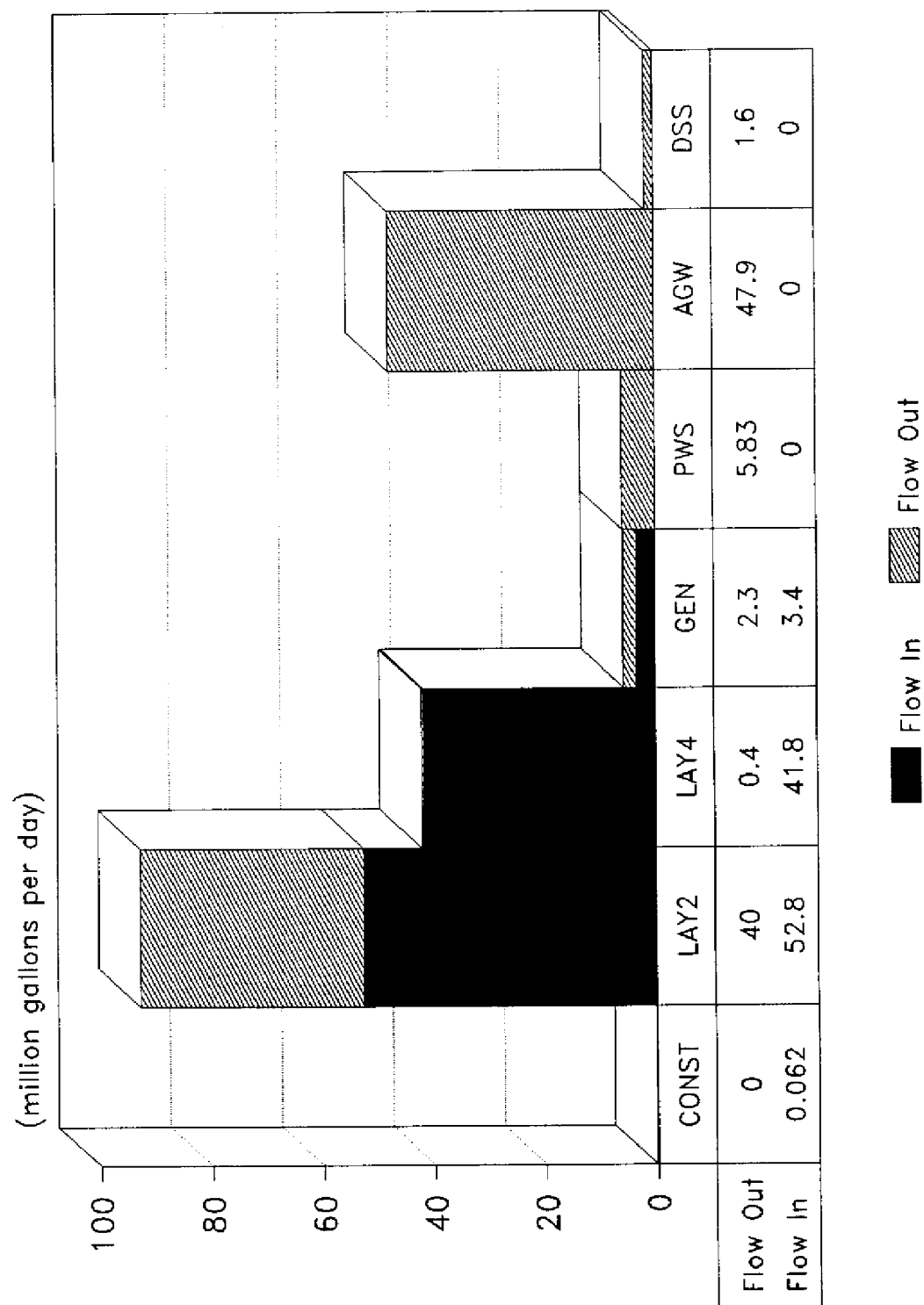


FIGURE 43. Volumetric Budget, Layer 3 (Sandstone Aquifer) Steady State Conditions

and mid-Hawthorn (LAY4) aquifers. The majority of the simulated flow out of this aquifer is through upward leakance to the lower Tamiami (LAY2) aquifer (40.8%) and to agricultural and landscape (AGW) pumpage (48.9%). Both public water supply (PWS) and domestic self supply (DSS) withdrawals are considerably less from the sandstone aquifer in comparison to the Surficial and lower Tamiami aquifers.

Layer 4 (Mid-Hawthorn Aquifer).

Figure 44 illustrates the magnitude and direction of the simulated horizontal flow in the mid-Hawthorn aquifer. The magnitude and direction of the horizontal flow vectors within Collier County indicate no significant areas of pumpage from the mid-Hawthorn. However, an area of intense pumpage can be seen in the central Lee County. Figures 45 and 46 show the simulated leakance across the confining units into the mid-Hawthorn from the overlying sandstone and underlying lower Hawthorn aquifers.

The volumetric budget for layer 4 (mid-Hawthorn aquifer) is illustrated in Figure 47. Almost all of the recharge to the mid-Hawthorn (98%) permeates through the lower Hawthorn confining unit from the underlying lower Hawthorn (LAY5) aquifer. The remaining two percent comes from specified heads (CONST) along the model boundaries. Of the total outflows, 91 percent is a result of

upward leakage to the sandstone aquifer (LAY3) and 4.8 percent through specified head (CONST) cells along the model boundary. Total simulated pumpage is 2.09 MGD which accounts for 4.5 percent of the flow out of this layer, domestic self supply (DSS) withdrawals represent the majority (88%) of this total which occurs almost exclusively in Lee County.

Total Model Volumetric Budget

Figure 48 represents the total volumetric budget for the model area. Recharge (RECH) (rainfall) accounts for 92.5 percent of the total flow into the model with the remaining 7.5 percent consisting of flow from outside the model area (7.25%) and river leakance (0.25%). Evapotranspiration (ET) is the most significant stress which removes water from the ground water flow system. It represents 50.6 percent of the total simulated outflows. Withdrawals through public water supply (PWS), domestic self supply (DSS) and agricultural and landscape (AGW) pumpage is approximately 31 percent of the total outflow with the majority being withdrawn for agricultural use. The major canal systems (CAN) in the model area are responsible for 11.35 percent of total outflow and occurs exclusively from layer 1 (Surficial aquifer). The other parameters that contribute to the total simulated outflows consist of flow through general (GEN) and specified head (CONST) cells (4.8%) and river leakance (RIV) (2.2%) to the Surficial aquifer.

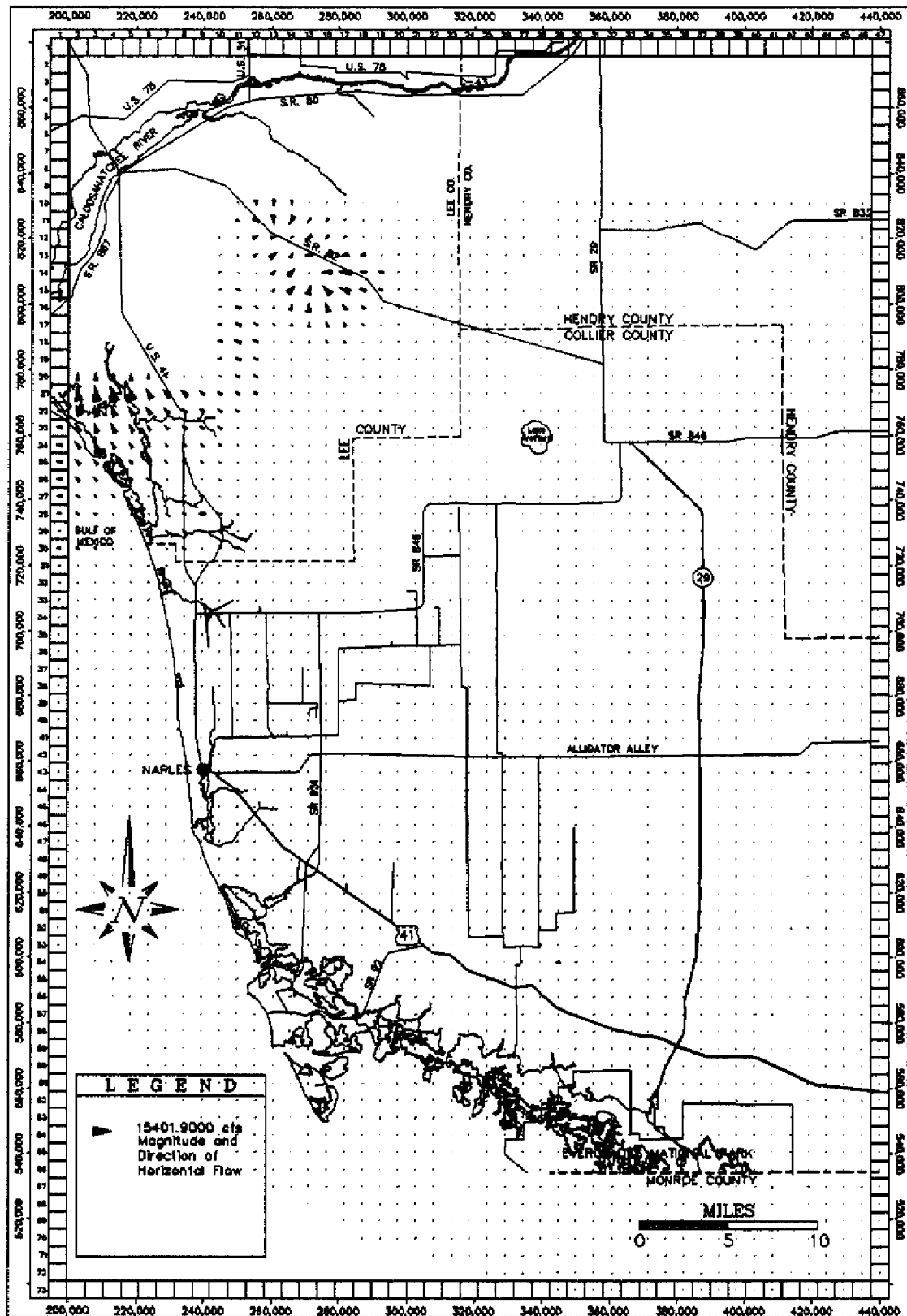


FIGURE 44. Simulated Steady State Horizontal Flow Vectors, Layer 4 (Mid-Hawthorn Aquifer)

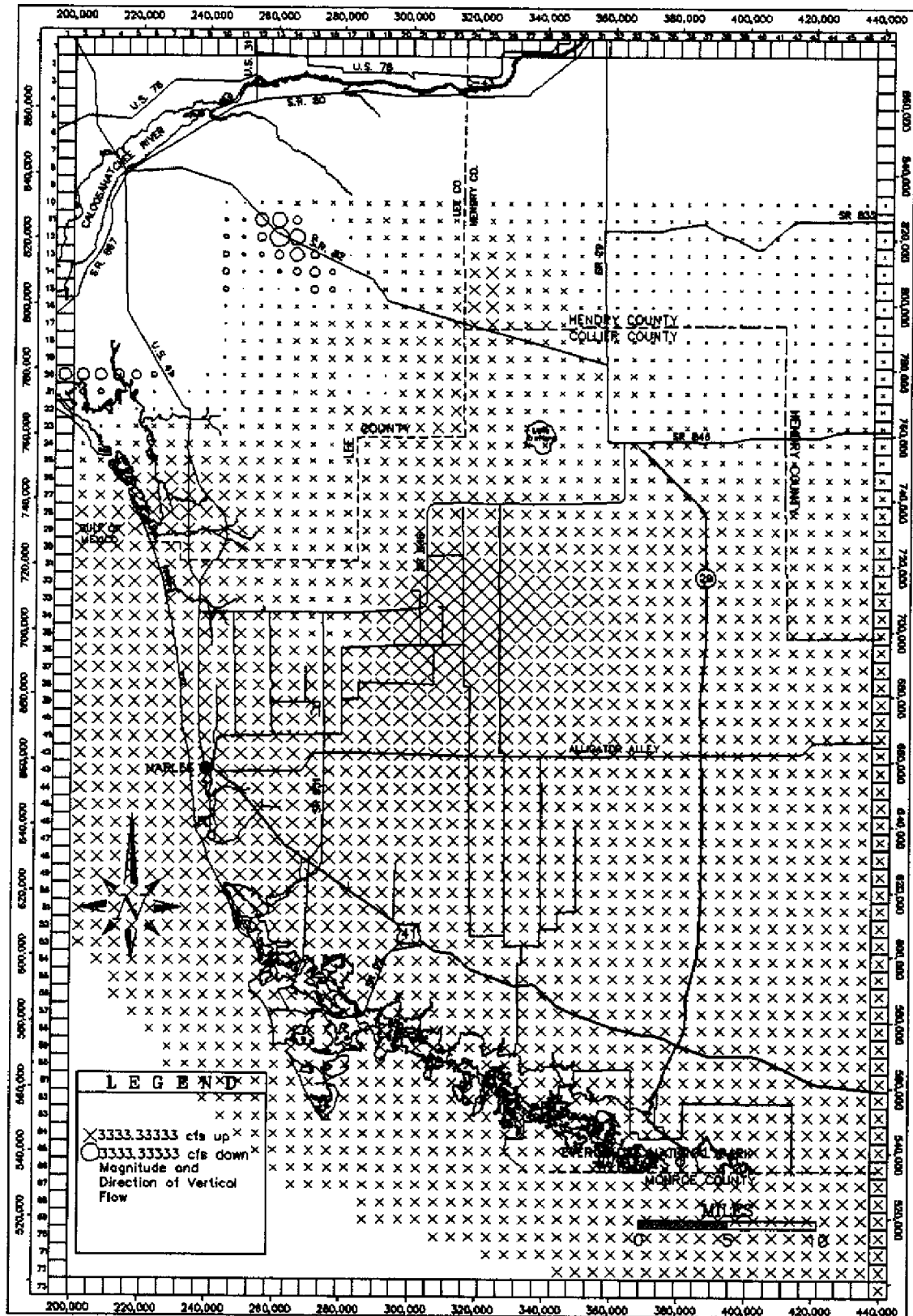


FIGURE 45-- Simulated Steady State Vertical Flow Between Layer 3 (Sandstone Aquifer) and Layer 4 (Mid-Hawthorn Aquifer)

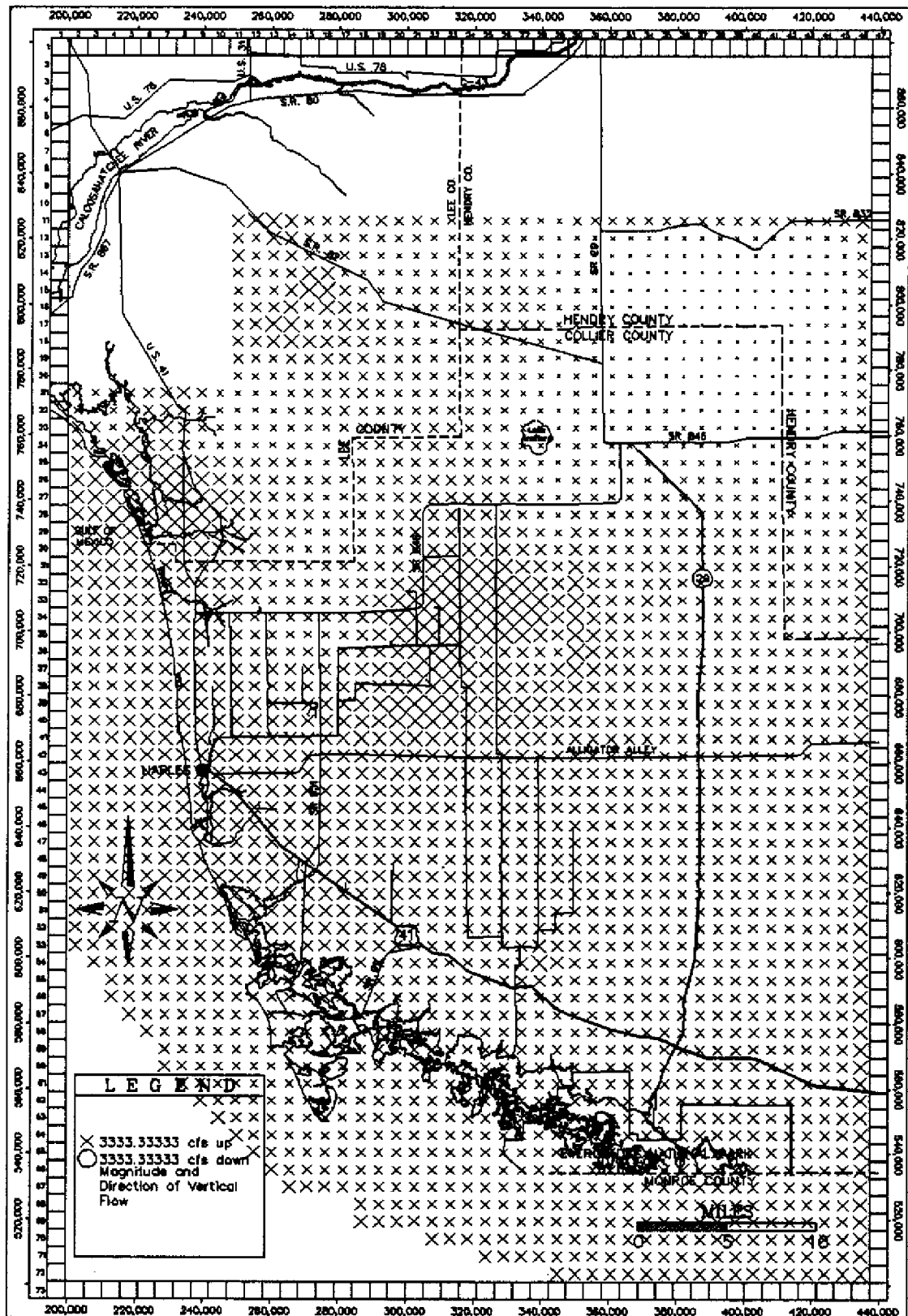


FIGURE 46. Simulated Steady State Vertical Flow Between Layer 4 (Mid-Hawthorn Aquifer) and Layer 5 (Lower Hawthorn Aquifer)

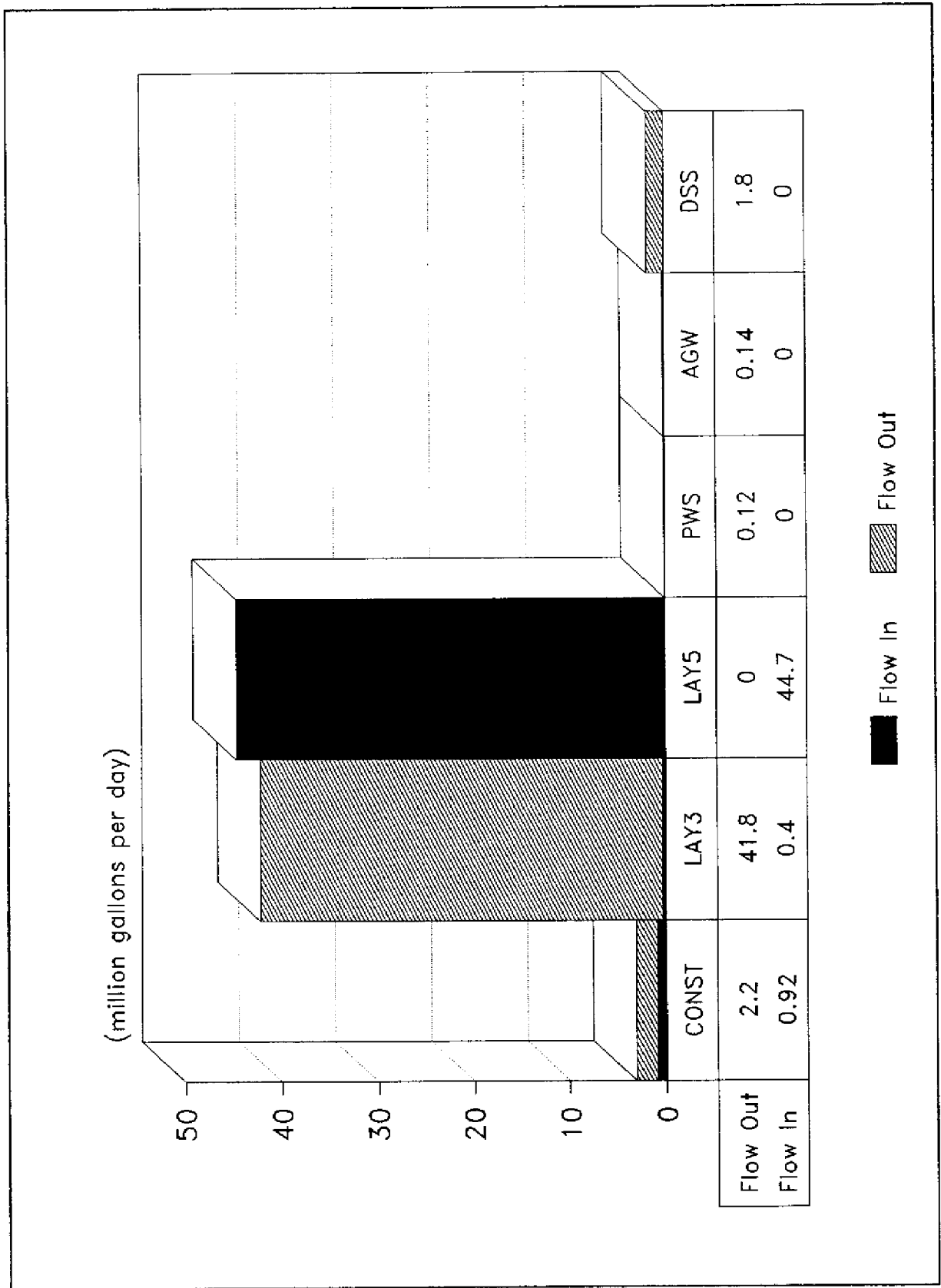


FIGURE 47. Volumetric Budget, Layer 4 (Mid-Hawthorn Aquifer) Steady State Conditions

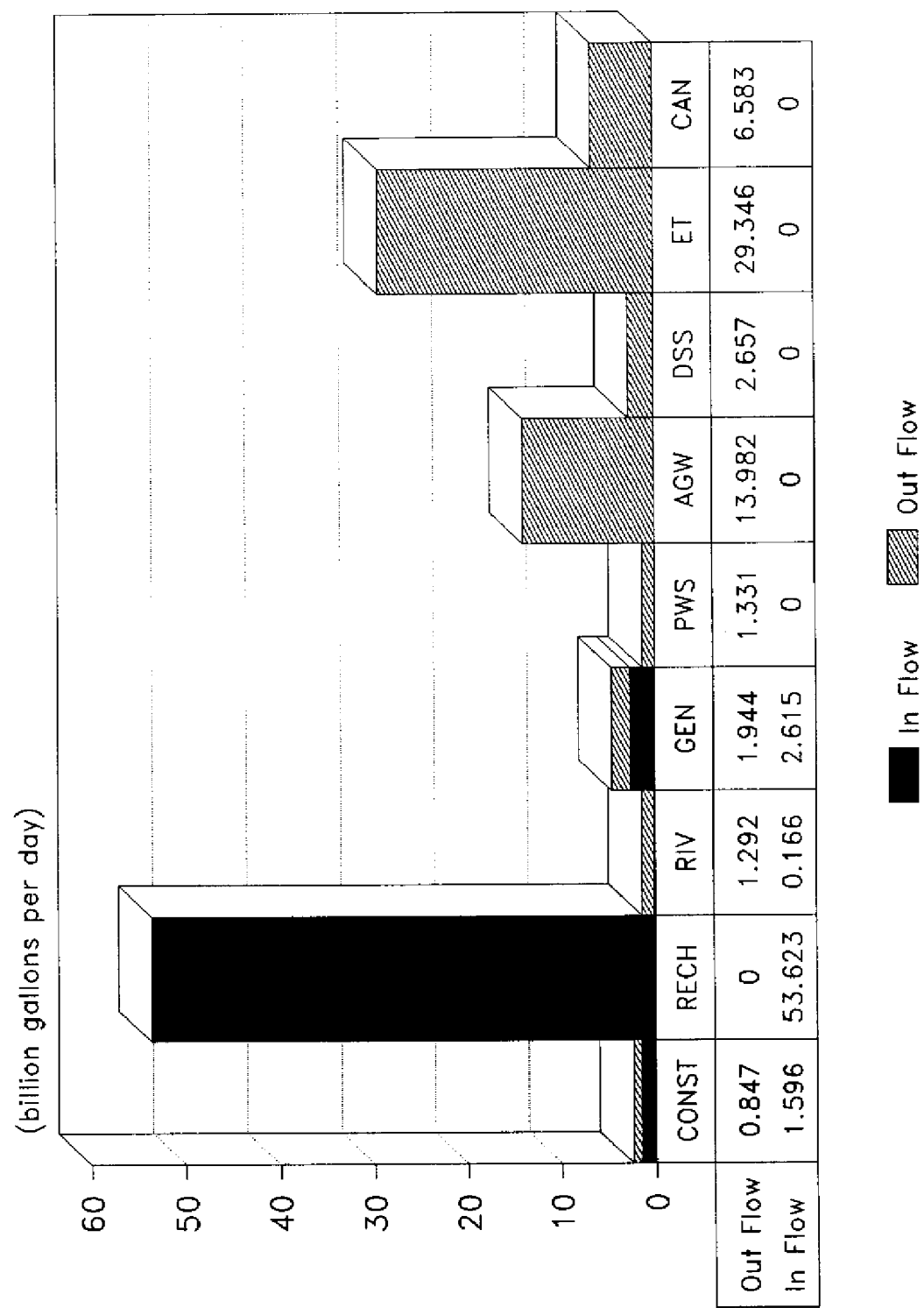


FIGURE 48. Volumetric Budget for Entire Model, Steady State Conditions

SENSITIVITY TESTING

Sensitivity tests were performed to ascertain the dependency of the results on the estimated aquifer parameters used in the model. The aquifer parameters were tested by altering the hydraulic conductivity and river bed conductance in layer 1 and Vcont between layers 1 and 2. The transmissivities for Layers 2, 3 and 4 and Vcont between the respective layers were also altered. These parameters were doubled then halved one at a time to test the sensitivity of the model to a specific parameter. They were also increased and decreased by an order of magnitude to test the stability and sensitivity of the model to large changes in these parameters. It was assumed testing this range of values would bracket the interval of uncertainty for each of the parameters. Head changes in each layer were examined to determine their relative sensitivity. The results of these tests are presented in Tables 2 through 6. In these tables, the changes that occurred within the layer are presented, followed by the resulting changes in the overlying, and then underlying layers.

The model was also tested for its sensitivity to change in recharge, maximum evapotranspiration rates and evapotranspiration surface. Recharge and maximum ET rates were increased and decreased by 10 percent, and ET surface was varied by ± 1.5 feet. These intervals were assumed to bracket the range of uncertainty for these stresses. Head changes in each layer were once again examined to determine their relative sensitivity.

Layer 1 (Surficial Aquifer).

Simulated water levels in layer 1 were not generally sensitive to changes in aquifer parameters. Changes in hydraulic conductivity caused a small drop (-0.01 to -0.05 feet) in overall simulated head values (Table 2). However, significant changes in computed head levels occurred within areas of intense withdrawals, but these changes were confined to localized areas. Layers 2 through 4 reacted to changes in aquifer parameter in layer 1 in a similar manner. Layer 1 is, however, sensitive to changes in recharge, maximum ET rates and ET surface. Altering the ET surface by ± 1.5 feet, causes overall simulated heads in layer 1 to fluctuate between -0.98 and 0.92 feet. Changes in recharge and maximum ET rates by $\pm 10\%$ do not produce as significant changes in overall simulated heads as compared to altering the ET surface (Table 3). Layers 2 to 4 react to changes in these stresses and

ET surface in a similar manner but to a lesser degree.

Layer 2 (Lower Tamiami Aquifer).

Simulated heads in layer 2 are more sensitive to changes in aquifer parameters as compared to layer 1. Decreasing the transmissivity by half causes a maximum drop in simulated head of -8.89 feet (in a heavily pumped area), and overall, causes the heads to decrease an average of 0.21 feet. Multiplying Vcont between layers 1 and 2 by 0.5 and 2.0 causes the most significant changes in the overall simulated head distribution. As a result, simulated head values in layer 2 range on average from -0.88 to 0.52 feet (Table 4). This is expected, as downward leakage from the overlying layer (Surficial aquifer) is the major source of flow to layer 2 (lower Tamiami aquifer).

Layer 3 (Sandstone Aquifer).

Simulated heads in layer 3 are sensitive to changes in Vcont between layers 2 and 3 and layers 3 and 4. Analysis of the volumetric budget for layer 3 shows that approximately 99 percent of the total inflow is the result of leakage from layers 2 (lower Tamiami aquifer) and 4 (mid-Hawthorn aquifer). Doubling the Vcont between layers 2 and 3 results in an average increase in stimulated head of 0.60 feet while reducing it by half causes heads to decrease an average of -0.47 feet (Table 5).

Layer 3 is slightly more sensitive to changes in transmissivity than layer 2 because of its overall lower transmissivity. Doubling this parameter resulted in a maximum increase in simulated head of 9.08 feet. Decreasing transmissivity by half resulted in a maximum decline in simulated head of 14.17 feet. Once again, the largest changes in simulated heads occurred in areas of intense ground water withdrawals.

Layer 4 (Mid Hawthorn Aquifer).

Overall, simulated heads in layer 4 are sensitive to changes in Vcont, representing the lower Hawthorn confining unit and only slightly sensitive to changes in transmissivity. Transmissivity values for this aquifer are relatively uniform based on existing hydraulic data except for specific areas. Doubling transmissivity resulted in a maximum rise in head of 16.31 feet while cutting transmissivity by half caused a decrease of 20.95 feet. These changes in transmissivity within the model area also cause

TABLE 2. SENSITIVITY RESPONSES TO CHANGES IN LAYER 1
(Head Changes in Feet)

	MAXIMUM HEAD	MINIMUM HEAD	AVERAGE HEAD CHANGE	STD. DEV.
<u>Change in Layer 1</u>				
Conductivity Doubled	3.16	-3.03	-0.05	0.47
Conductivity Halved	2.26	-5.81	-0.01	0.50
Conductivity *10	5.96	-11.56	-0.59	1.76
*Conductivity *0.1	--	--	--	--
Vcont Doubled (Layer 1-2)	0.33	-1.44	-0.03	0.12
Vcont Halved (Layer 1-2)	2.24	-0.45	+0.03	0.14
Vcont *10 (Layer 1-2)	0.09	-3.37	-0.07	0.29
Vcont *0.1 (Layer 1-2)	7.16	-2.36	-0.09	0.47
Canal Cond. Doubled	0.00	-1.54	-0.15	0.21
Canal Cond. Halved	1.90	0.00	+0.15	0.22
<u>Change in Underlying Layer 2</u>				
Conductivity Doubled	1.58	-1.67	-0.04	0.29
Conductivity Halved	0.89	-2.18	-0.01	0.25
Conductivity *10	4.92	-7.38	-0.53	1.44
*Conductivity *0.1	--	--	--	--
Vcont Doubled (Layer 1-2)	4.28	-0.36	+0.52	0.75
Vcont Halved (Layer 1-2)	0.32	-6.20	-0.88	1.19
Vcont *10 (Layer 1-2)	9.29	-0.99	+1.04	1.60
Vcont *0.1 (Layer 1-2)	0.69	-31.91	-7.98	7.41
Canal Cond. Doubled	0.00	-0.96	-0.14	0.16
Canal Cond. Halved	1.01	0.00	+0.15	0.18
<u>Change in Underlying Layer 3</u>				
Conductivity Doubled	1.09	-1.21	-0.03	0.20
Conductivity Halved	0.54	-1.13	-0.01	0.16
Conductivity *10	2.73	-6.26	-0.43	1.09
*Conductivity *0.1	--	--	--	--
Vcont Doubled (Layer 1-2)	2.84	-0.30	+0.44	0.65
Vcont Halved (Layer 1-2)	0.29	-4.28	-0.75	1.06
Vcont *10 (Layer 1-2)	6.11	-0.85	+0.87	1.34
Vcont *0.1 (Layer 1-2)	0.67	-27.59	-6.88	6.67
Canal Cond. Doubled	0.00	-0.64	-0.11	0.14
Canal Cond. Halved	0.79	0.00	+0.12	0.15
<u>Change in Underlying Layer 4</u>				
Conductivity Doubled	0.20	-0.49	-0.02	0.08
Conductivity Halved	0.21	-0.31	0.00	0.06
Conductivity *10	0.38	-2.74	-0.22	0.49
*Conductivity *0.1	--	--	--	--
Vcont Doubled (Layer 1-2)	1.20	-0.02	+0.20	0.30
Vcont Halved (Layer 1-2)	0.02	-2.04	-0.34	0.50
Vcont *10 (Layer 1-2)	2.60	-0.05	+0.39	0.60
Vcont *0.1 (Layer 1-2)	0.07	-13.20	-2.96	3.17
Canal Cond. Doubled	0.00	-0.15	-0.04	0.04
Canal Cond. Halved	0.17	0.00	+0.04	0.04

*Failed to converge

**TABLE 3. SENSITIVITY RESPONSES TO CHANGES IN STRESSES
(Head Changes in Feet)**

	MAXIMUM HEAD	MINIMUM HEAD	AVERAGE HEAD CHANGE	STD. DEV.
<u>Change in Layer 1</u>				
Recharge at 110%	1.37	0.00	+ 0.30	0.25
Recharge at 90%	0.00	-1.77	-0.33	0.30
Max ET Rate at 110%	0.00	-0.75	-0.11	0.09
Max ET Rate at 90%	0.88	0.00	+ 0.14	0.12
ET Surface + 1.5 feet	1.53	0.00	+ 0.92	0.46
ET Surface -1.5 feet	0.00	-1.53	-0.98	0.44
<u>Change in Underlying Layer 2</u>				
Recharge at 110%	1.04	0.00	0.26	0.21
Recharge at 90%	0.00	-1.20	-0.29	0.25
Max ET Rate at 110%	0.00	-0.53	-0.10	0.08
Max ET Rate at 90%	0.64	0.00	0.12	0.10
ET Surface + 1.5 feet	1.49	0.00	+ 0.78	0.46
ET Surface -1.5 feet	0.00	-1.49	-0.84	0.46
<u>Change in Underlying Layer 3</u>				
Recharge at 110%	0.76	0.00	0.21	0.20
Recharge at 90%	0.00	-1.10	-0.23	0.23
Max ET Rate at 110%	0.00	-0.34	-0.08	0.07
Max ET Rate at 90%	0.40	0.00	0.09	0.08
ET Surface + 1.5 feet	1.46	0.00	+ 0.61	0.46
ET Surface -1.5 feet	0.00	-1.45	-0.66	0.48
<u>Change in Underlying Layer 4</u>				
Recharge at 110%	0.38	0.00	0.08	0.10
Recharge at 90%	0.00	-0.44	-0.09	0.10
Max ET Rate at 110%	0.00	-0.14	-0.03	0.03
Max ET Rate at 90%	0.16	0.00	0.03	0.04
ET Ext. Surface + 1.5 feet	0.80	0.00	+ 0.22	0.21
ET Ext. Surface -1.5 feet	0.00	-0.80	-0.23	0.21

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

	MAXIMUM HEAD	MINIMUM HEAD	AVERAGE HEAD CHANGE	STD. DEV.
<u>Change in Layer 2</u>				
Transmissivity Doubled	5.76	-1.15	+ 0.16	0.66
Transmissivity Halved	1.04	-8.98	-0.21	0.81
Transmissivity *10	11.95	-4.50	+ 0.27	1.74
Transmissivity *0.1	2.92	-45.37	-0.78	3.44
Vcont Doubled (Layer 2-3)	1.10	-1.00	+ 0.02	0.08
Vcont Halved (Layer 2-3)	0.98	-0.79	-0.02	0.09
Vcont *10 (Layer 2-3)	3.32	-2.80	+ 0.04	0.22
Vcont *0.1 (Layer 2-3)	3.26	-1.43	-0.05	0.33
<u>Change in Overlying Layer 1</u>				
Transmissivity Doubled	1.47	-0.48	+ 0.03	0.18
Transmissivity Halved	0.34	-2.03	-0.03	0.18
Transmissivity *10	3.68	-2.35	+ 0.03	0.51
Transmissivity *0.1	0.89	-5.76	-0.10	0.50
Vcont Doubled (Layer 2-3)	0.19	-0.32	0.00	0.02
Vcont Halved (Layer 2-3)	0.49	-0.12	0.00	0.01
Vcont *10 (Layer 2-3)	0.59	-0.83	0.00	0.06
Vcont *0.1 (Layer 2-3)	2.16	-0.35	0.01	0.13
<u>Change in Underlying Layer 3</u>				
Transmissivity Doubled	3.00	-0.78	+ 0.14	0.43
Transmissivity Halved	0.84	-4.51	-0.17	0.50
Transmissivity *10	6.39	-3.27	+ 0.24	1.19
Transmissivity *0.1	2.18	-21.32	-0.62	1.91
Vcont Doubled (Layer 2-3)	9.01	-2.75	+ 0.08	1.42
Vcont Halved (Layer 2-3)	3.32	-12.81	-0.09	2.62
Vcont *10 (Layer 2-3)	20.59	-8.11	+ 0.20	3.11
Vcont *0.1 (Layer 2-3)	13.32	-55.50	-0.29	13.22
<u>Change in Underlying Layer 4</u>				
Transmissivity Doubled	0.86	-0.19	+ 0.05	0.15
Transmissivity Halved	0.14	-0.93	-0.07	0.15
Transmissivity *10	2.05	-1.20	+ 0.08	0.41
Transmissivity *0.1	0.31	-2.93	-0.23	0.47
Vcont Doubled (Layer 2-3)	2.68	-0.71	+ 0.13	0.55
Vcont Halved (Layer 2-3)	0.76	-4.09	-0.20	1.07
Vcont *10 (Layer 2-3)	5.88	-2.01	+ 0.27	1.17
Vcont *0.1 (Layer 2-3)	2.76	-20.90	-1.20	2.76

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

	MAXIMUM HEAD	MINIMUM HEAD	AVERAGE HEAD CHANGE	STD. DEV.
<u>Change in Layer 3</u>				
Transmissivity Doubled	9.08	-1.67	+ 0.09	0.63
Transmissivity Halved	2.14	-14.17	-0.09	0.87
Transmissivity * 10	19.15	-4.92	0.33	1.68
Transmissivity * 0.1	7.35	-81.09	-1.51	4.46
Vcont Doubled (Layer 3-4)	3.42	-0.36	0.60	0.50
Vcont Halved (Layer 3-4)	0.21	-2.83	-0.47	0.42
Vcont * 10 (Layer 3-4)	9.66	-2.09	2.00	1.69
Vcont * 0.1 (Layer 3-4)	-0.40	-6.36	-1.03	0.94
<u>Change in Overlying Layer 1</u>				
Transmissivity Doubled	0.36	-0.15	0.00	0.03
Transmissivity Halved	0.17	-0.32	0.00	0.03
Transmissivity * 10	1.14	-0.57	0.02	0.12
Transmissivity * 0.1	0.51	-0.89	-0.02	0.07
Vcont Doubled (Layer 3-4)	0.22	0.00	0.03	0.04
Vcont Halved (Layer 3-4)	0.00	-0.17	-0.02	0.03
Vcont * 10 (Layer 3-4)	0.67	0.00	0.00	0.10
Vcont * 0.1 (Layer 3-4)				
<u>Change in Overlying Layer 2</u>				
Transmissivity Doubled	0.75	-0.29	0.02	0.10
Transmissivity Halved	0.50	-1.03	-0.01	0.08
Transmissivity * 10	1.95	-1.21	0.10	0.38
Transmissivity * 0.1	1.89	-3.80	-0.09	0.21
Vcont Doubled (Layer 3-4)	0.56	0.00	0.08	0.09
Vcont Halved (Layer 3-4)	0.00	-0.47	-0.07	0.08
Vcont * 10 (Layer 3-4)	1.68	-0.01	0.00	0.28
Vcont * 0.1 (Layer 3-4)	0.00	-1.03	-0.15	0.18
<u>Change in Underlying Layer 4</u>				
Transmissivity Doubled	1.10	-0.29	0.03	0.14
Transmissivity Halved	0.27	-1.60	-0.04	0.16
Transmissivity * 10	2.56	-1.33	0.12	0.48
Transmissivity * 0.1	0.73	-8.09	-0.30	0.70
Vcont Doubled (Layer 3-4)	5.12	-7.12	-4.20	1.51
Vcont Halved (Layer 3-4)	7.31	-3.44	3.43	1.55
Vcont * 10 (Layer 3-4)	20.01	-21.30	-13.39	4.77
Vcont * 0.1 (Layer 3-4)	18.56	-6.79	+ 7.66	4.09

average simulated heads to fluctuate between -0.12 and 0.09 feet.

Simulated heads are most sensitive to change in V_{cont} between layers 4 and 5. Multiplying the V_{cont} term by 0.5 and 2 did not cause as large maximum or minimum changes in simulated head as occurred while altering the transmissivity.

However, the average simulated heads for the model area fluctuated between -4.70 and 4.14 feet in comparison to -0.12 and 0.09 feet (Table 6). These changes are expected due to the large inflow (97%) to layer 4 from upward leakage from the underlying lower Hawthorn aquifer (Layer 5).

**TABLE 6. SENSITIVITY RESPONSES TO CHANGES IN LAYER 4
(Head Changes in Feet)**

	MAXIMUM HEAD	MINIMUM HEAD	AVERAGE HEAD CHANGE	STD. DEV.
<u>Change in Layer 4</u>				
Transmissivity Doubled	16.31	-2.42	-0.12	0.93
Transmissivity Halved	3.06	-20.95	+ 0.09	1.08
Transmissivity * 10	35.23	-6.89	-1.35	2.41
Transmissivity * 0.1	9.56	-71.94	0.23	3.68
Vcont Doubled (Layer 4-5)	10.54	0.00	4.14	1.51
Vcont Halved (Layer 4-5)	0.00	-8.40	-4.70	1.40
Vcont * 10 (Layer 4-5)	38.21	0.00	+ 10.09	4.68
Vcont * 0.1 (Layer 4-5)	0.00	-20.64	-14.09	4.78
<u>Change in Overlying Layer 1</u>				
Transmissivity Doubled	0.00	0.00	0.00	0.00
Transmissivity Halved	0.00	0.00	0.00	0.00
Transmissivity * 10	0.02	-0.02	0.00	0.00
Transmissivity * 0.1	0.01	-0.01	0.00	0.00
Vcont Doubled (Layer 4-5)	0.11	0.00	0.01	0.01
Vcont Halved (Layer 4-5)	0.00	-0.12	-0.01	0.02
Vcont * 10 (Layer 4-5)	0.25	0.00	0.03	0.04
<u>Change in Overlying Layer 2</u>				
Transmissivity Doubled	0.01	-0.04	0.00	0.01
Transmissivity Halved	0.03	-0.01	0.00	0.00
Transmissivity * 10	0.05	-0.20	-0.01	0.03
Transmissivity * 0.1	0.05	-0.02	0.00	0.01
Vcont Doubled (Layer 4-5)	0.23	0.00	0.04	0.05
Vcont Halved (Layer 4-5)	0.00	-0.26	-0.04	0.05
Vcont * 10 (Layer 4-5)	0.58	0.00	0.09	0.12
Vcont * 0.1 (Layer 4-5)	0.00	-0.81	-0.13	0.15
<u>Change in Overlying Layer 3</u>				
Transmissivity Doubled	0.31	-0.54	-0.01	0.07
Transmissivity Halved	0.54	-0.34	-0.01	0.06
Transmissivity * 10	0.70	-1.62	-0.07	0.25
Transmissivity * 0.1	1.56	-0.94	0.03	0.61
Vcont Doubled (Layer 4-5)	1.63	0.00	0.24	0.25
Vcont Halved (Layer 4-5)	0.00	-1.70	-0.27	0.27
Vcont * 10 (Layer 4-5)	4.46	0.00	0.58	0.64
Vcont * 0.1 (Layer 4-5)	1.56	-4.82	-0.77	0.77

RESULTS AND CONCLUSIONS

1. The most important source of recharge to the Surficial Aquifer System in Collier County is rainfall. Under average conditions for the 35 month period from February 1986 through December 1988, rainfall accounted for approximately 92 percent of the total recharge to the study area. The remaining eight percent came from ground water flow into the model from adjacent areas in Hendry and Lee counties.
2. The majority of the outflow from the model area was through evapotranspiration which accounted for approximately 51 percent of the total. The remaining outflow consists of well withdrawals (31%), canal drainage (11%), ground water flow out of the model area primarily to the Gulf of Mexico (5%) and river leakance (2%).
3. During model runs, the Surficial aquifer developed only a limited number of cones of depression of significant extent. These simulations are consistent with ground water level maps composed from observed water level data. In the highly developed agricultural areas of central Collier County, the ground water levels in the Surficial aquifer are being held within certain ranges by supplemental withdrawals from the underlying aquifers and distributed by various irrigation practices. This practice reduces ground water level fluctuations in the Surficial aquifer (Layer 1).
4. The model indicates a large cone of depression within Layer 2 (lower Tamiami aquifer) in central Collier County. This cone of depression develops during average conditions as result of simulated agricultural pumpage which extends over a 15 square mile area. However, during individual months with intense agricultural demands, the cone of depression may double in area.
5. The model suggests that the sandstone aquifer is heavily impacted by current pumpage in several localized areas. Ground water withdrawals through pumpage accounts for approximate 12 percent of the flow out of this aquifer. These withdrawals occur primarily along the Lee-Hendry County border as result of intense agricultural irrigation.
5. Model simulation of ground water flow indicates a slight curvature in ground water contours for the mid-Hawthorn aquifer in central Collier County. This occurrence is consistent with observed ground water levels and represent an area of depressed ground water levels. This may be the result of upward leakance through the mid-Hawthorn confining unit due to large withdrawals in the overlying aquifers. A small cone of depression develops during model simulation in central Lee County. This feature may be the result of overestimation of simulated domestic self supply withdrawals.
6. The horizontal discretization and regional nature of the model limits its use in accurately assessing small scale impacts. As a result, impacts on adjacent users and wetlands from nearby withdrawals may be obscured by cell wide averaging. Smaller scale models for specific areas using the regional model for boundary conditions and aquifer parameters would better define the impacts on adjacent users and environmentally sensitive areas (i.e. wetlands).
7. The model was difficult to calibrate under steady state and transient conditions in several areas. Probable reasons are cell wide averaging or uncertainty in aquifer parameters or stress rates.

RECOMMENDATIONS

1. Additional hydrogeologic investigations should be undertaken in those areas where existing data is incomplete or suspect. For the Surficial and lower Tamiami aquifers, these areas include the northwest portion of Hendry County and the Faka Union drainage basin of Collier County. The extent of the sandstone aquifer needs to be better defined in the areas south of Alligator Alley in central and southern Collier County. Hydrogeologic information concerning the mid-Hawthorn and lower Hawthorn aquifers is needed throughout Collier County. The additional hydrogeologic information will help to increase the overall accuracy and confidence level of the model which would result in a better assessment of the water supply potential of the various aquifers.
2. Additional ground water monitor wells should be installed, particularly in the eastern portion of Collier County for the Surficial, lower Tamiami and sandstone aquifers. Monitor wells for the mid-Hawthorn and lower Hawthorn aquifers should be installed throughout the county. Once constructed, these wells should be incorporated into the U. S. Geological Survey ground water monitor network for long term data collection. This will provide additional data for calibration of the updated models.
3. The location and operation of the network of small agricultural canals in the study area should be investigated to determine their effects on the ground water flow system. Also, once model regridding capabilities are established, the model cell size should be reduced to better simulate the affects of these small scale drainage canals. This would improve the calibration of the Surficial and underlying aquifers.
4. Domestic self supply is very widespread and accounts for a significant volume of water withdrawn from the system, but accurate ground water withdrawals from these users are not well known. Therefore, estimates of domestic water use need to be refined and made as accurate as possible to enhance the accuracy and reliability of the model. A large percentage of water is also withdrawn from the Surficial Aquifer System for agricultural and landscape irrigation within the study area. Compliance with water use permit limiting conditions requiring the reporting of irrigation water use should be stressed.
5. The model should be refined and updated as additional information becomes available and emphasis should be placed on obtaining information on parameters to which the model is most sensitive. The updated information would improve the confidence and reliability of the model. The model should also be used to provide boundary conditions for individual models when more detailed scale is needed to address a site specific planning or regulatory question.
6. The data from the existing models of Lee and Hendry counties should be integrated with that of western Collier County. This would result in a regional three-dimensional ground water flow model of the Surficial and Intermediate Aquifer Systems for the Lower West Coast. A regional ground water flow model would help to eliminate the effect of the approximated boundary conditions from the separate models within the region.

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APPENDIX A

AQUIFER PARAMETERS

LIST OF FIGURES - APPENDIX A

Figure		Page
A-1	Hydraulic Conductivity, Layer 1 (Surficial Aquifer)	84
A-2	Bottom Elevation of Layer 1 (Surficial Aquifer)	85
A-3	Vertical Conductance, Bottom of Layer 1	86
A-4	Transmissivity, Layer 2 (Lower Tamiami Aquifer)	87
A-5	Storage Coefficient, Layer 2 (Lower Tamiami Aquifer)	88
A-6	Vertical Conductance, Bottom of Layer 2	89
A-7	Thickness of Layer 3 (Sandstone Aquifer)	90
A-8	Hydraulic Conductivity, Layer 3 (Sandstone Aquifer)	91
A-9	Transmissivity, Layer 3 (Sandstone Aquifer)	92
A-10	Storage Coefficient, Layer 3 (Sandstone Aquifer)	93
A-11	Vertical Conductance, Bottom of Layer 3	94
A-12	Thickness of Layer 4 (Mid-Hawthorn Aquifer)	95
A-13	Transmissivity, Layer 4 (Mid-Hawthorn Aquifer)	96
A-14	Storage Coefficient, Layer 4 (Mid-Hawthorn Aquifer)	97
A-15	Vertical Conductance, Bottom of Layer 4	98

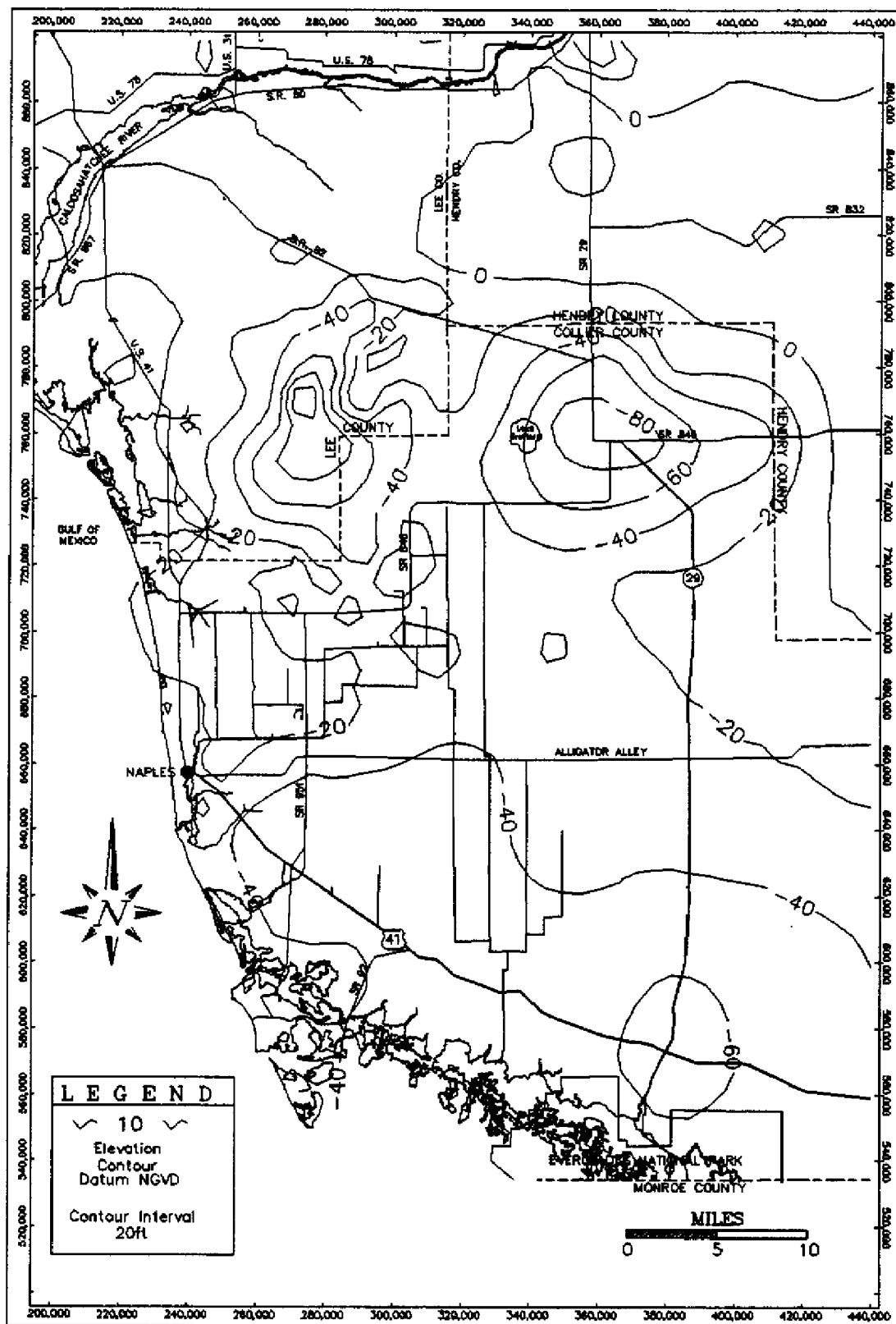


FIGURE A-2. Bottom Elevation of Layer 1 (Surficial Aquifer)

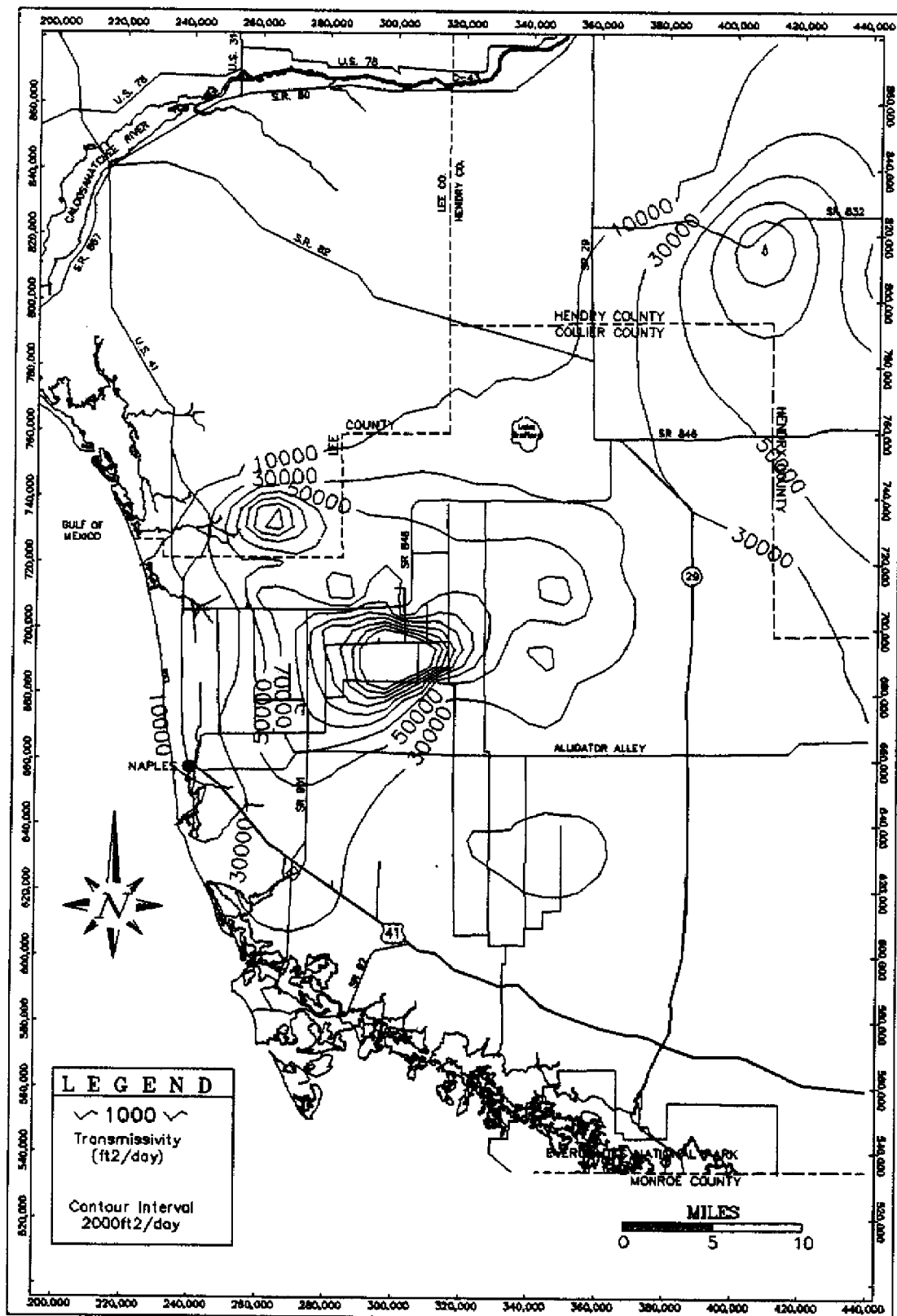


FIGURE A-4. Transmissivity, Layer 2 (Lower Tamiami Aquifer)

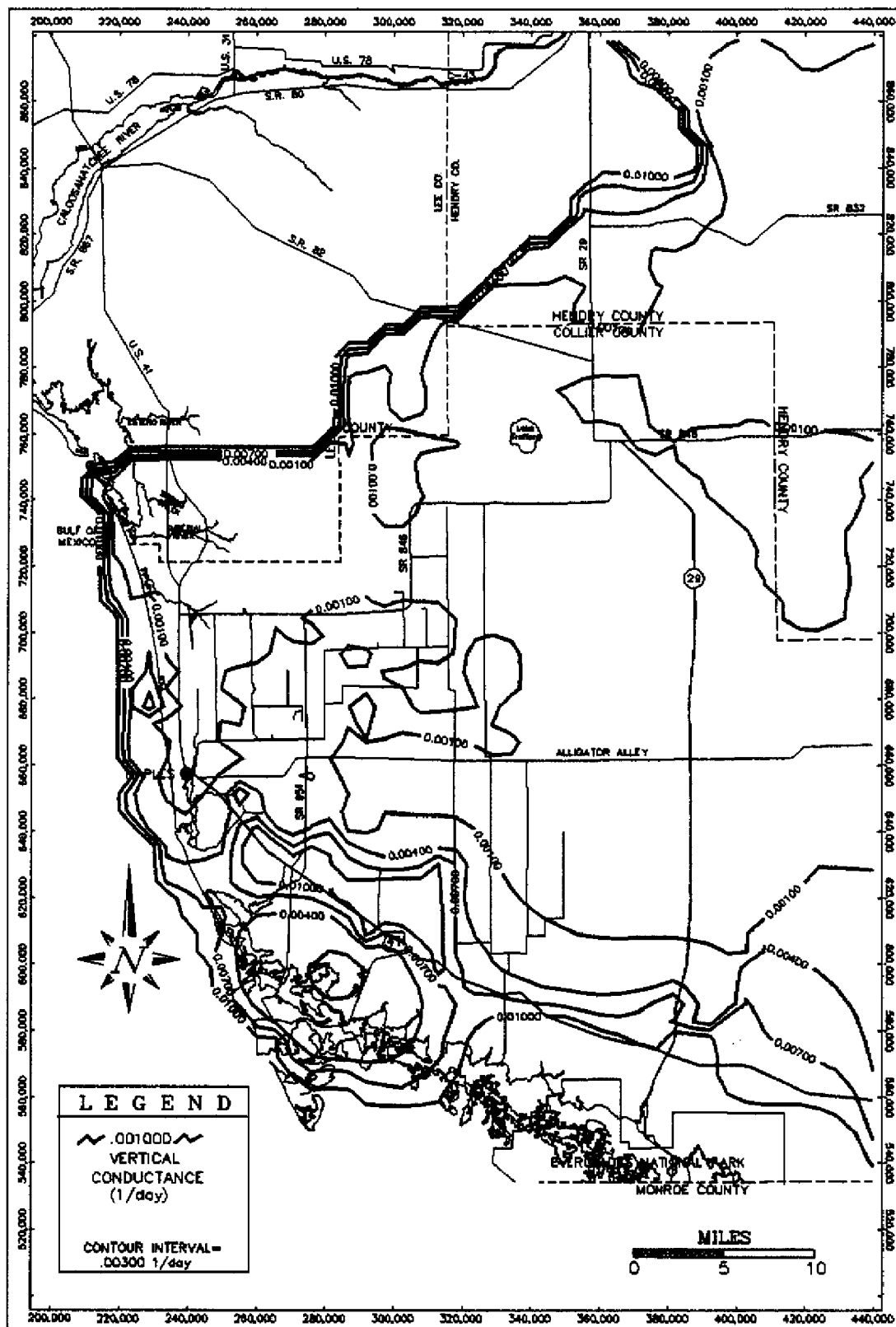


FIGURE A-3. Vertical Conductance, Bottom of Layer 1

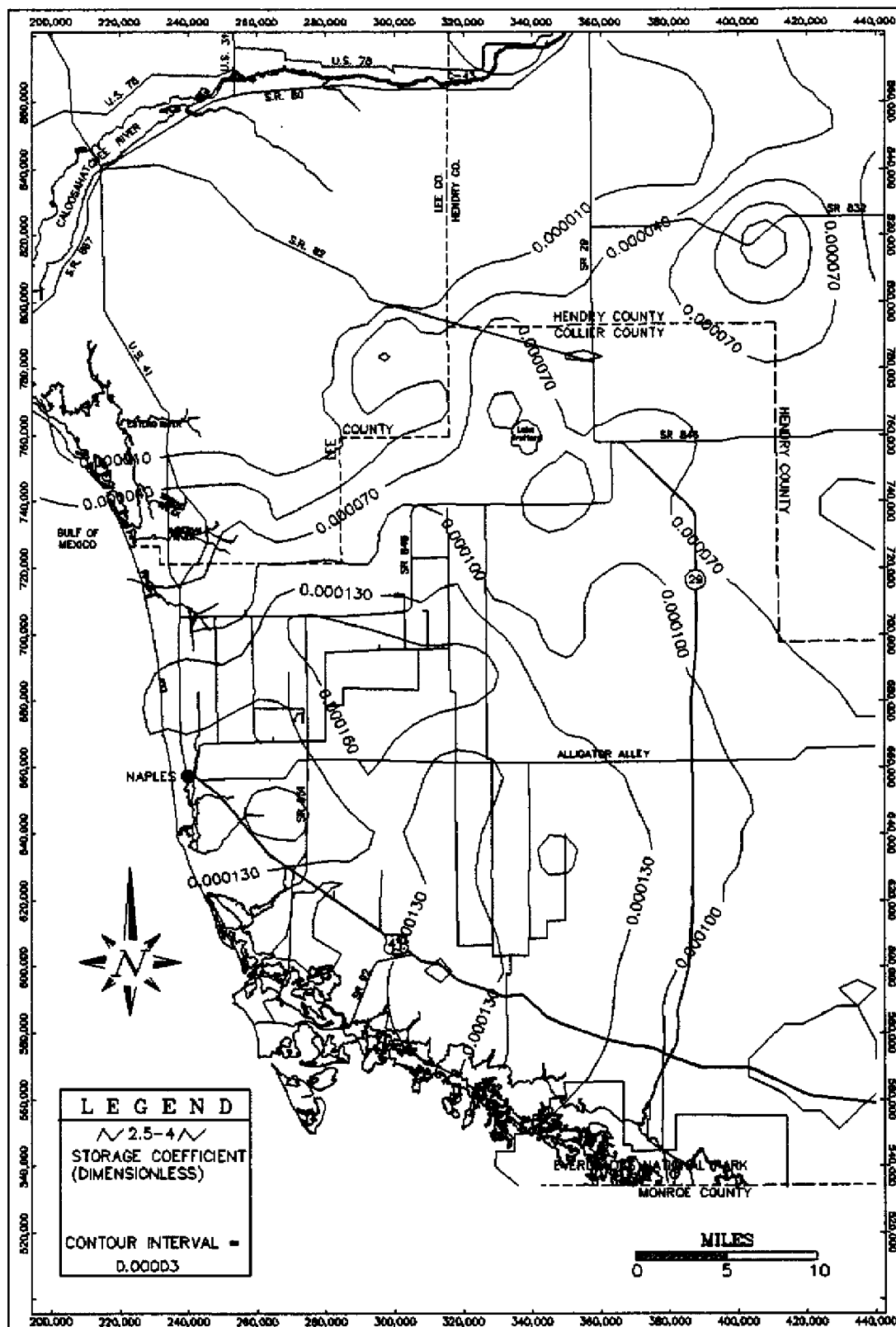


FIGURE A-5. Storage Coefficient, Layer 2
(Lower Tamiami Aquifer)



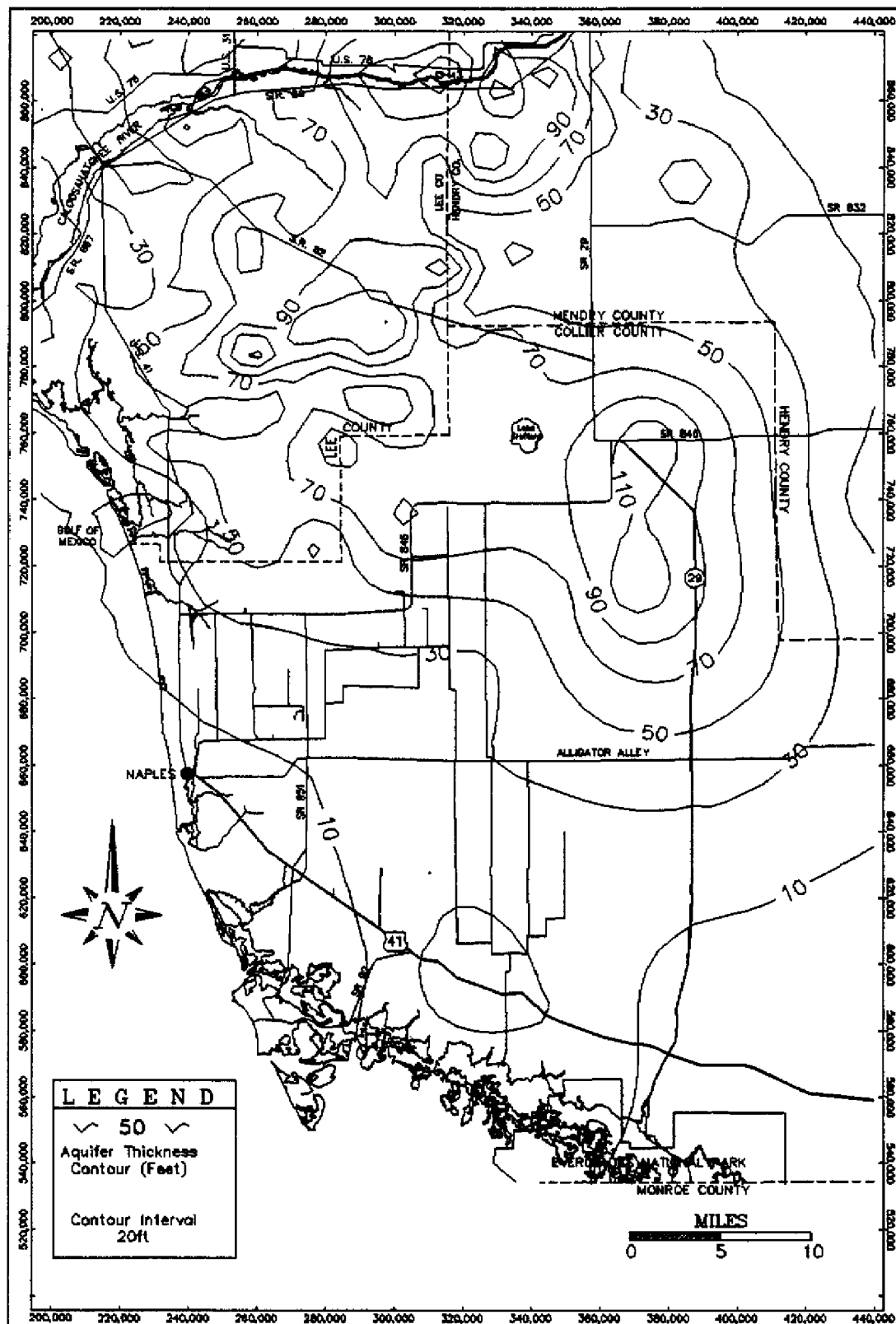


FIGURE A-7. Thickness of Layer 3 (Sandstone Aquifer)

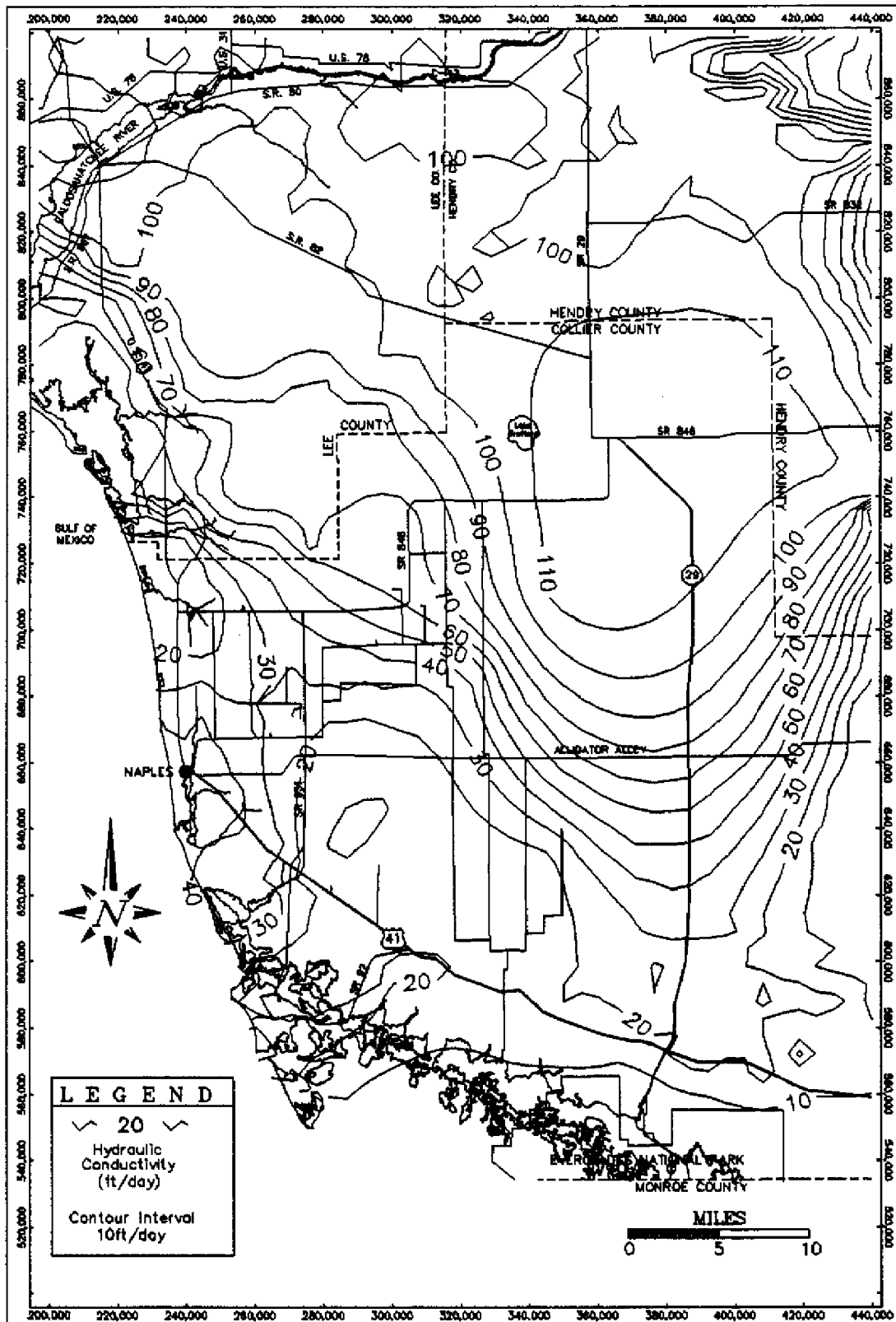


FIGURE A-8. Hydraulic Conductivity, Layer 3
(Sandstone Aquifer)

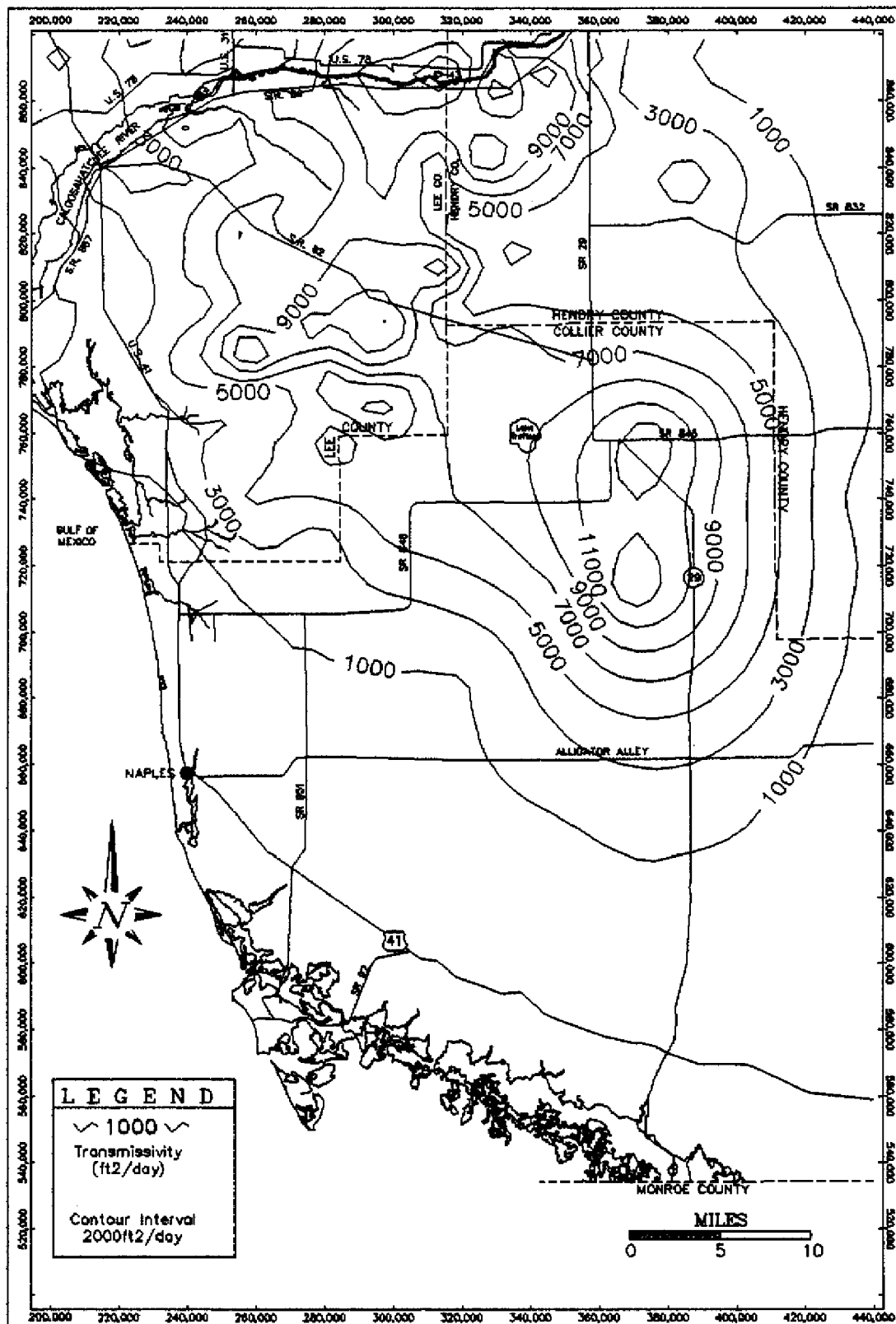


FIGURE A-9. Transmissivity, Layer 3 (Sandstone Aquifer)

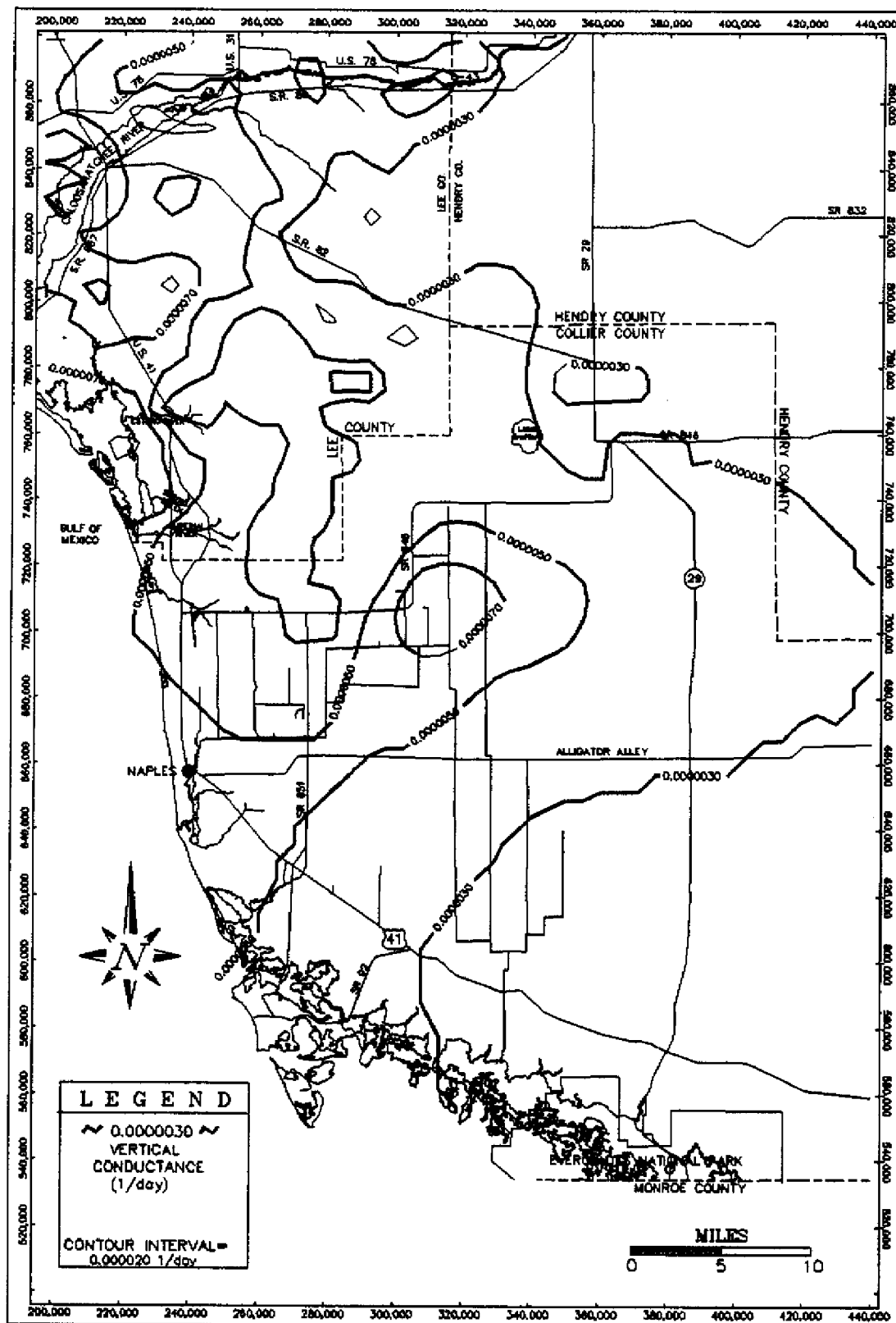


FIGURE A-11. Vertical Conductance, Bottom of Layer 3

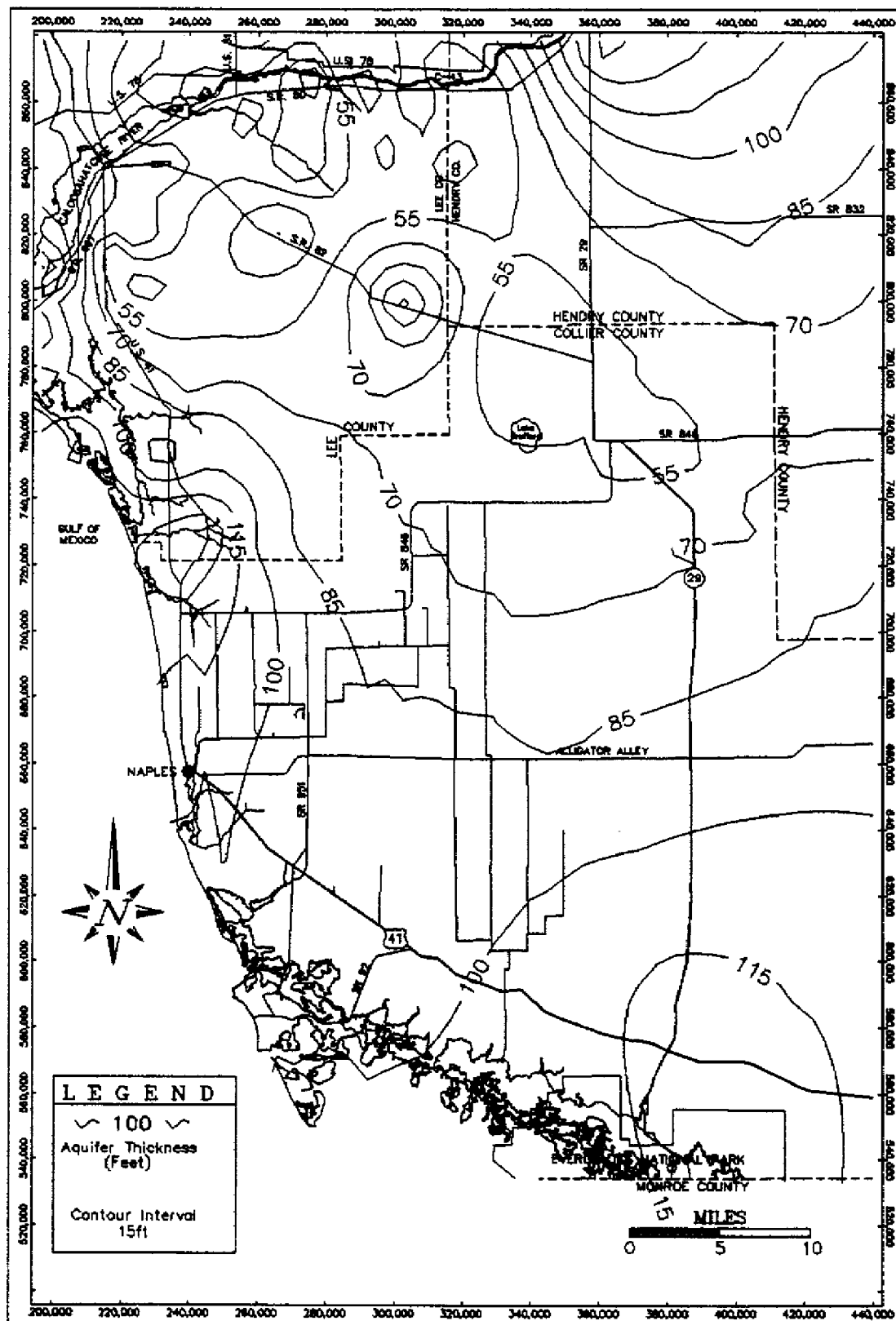


FIGURE A-12. Thickness of Layer 4 (Mid-Hawthorn Aquifer)

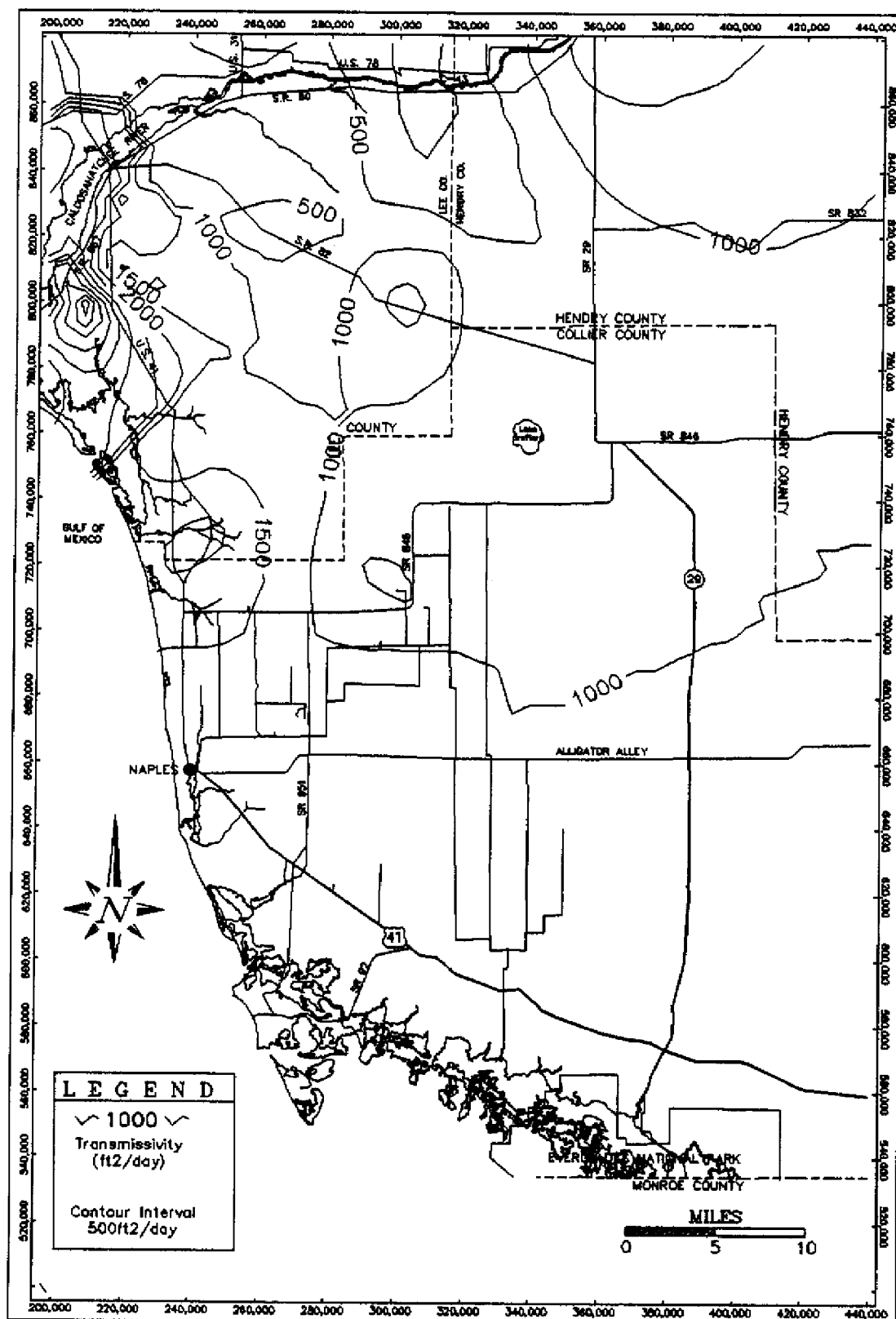


FIGURE A-13. Transmissivity, Layer 4 (Mid-Hawthorn Aquifer)



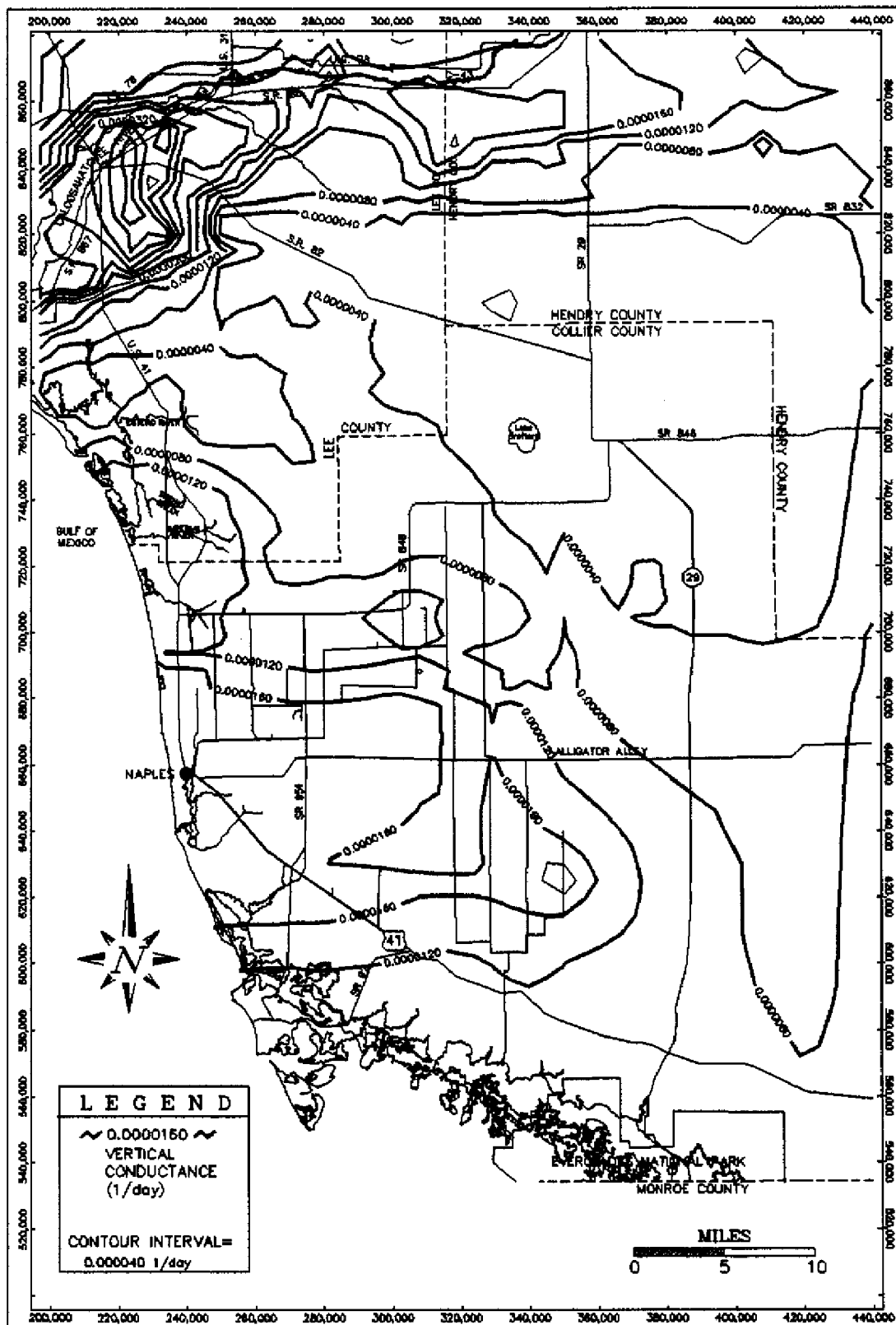
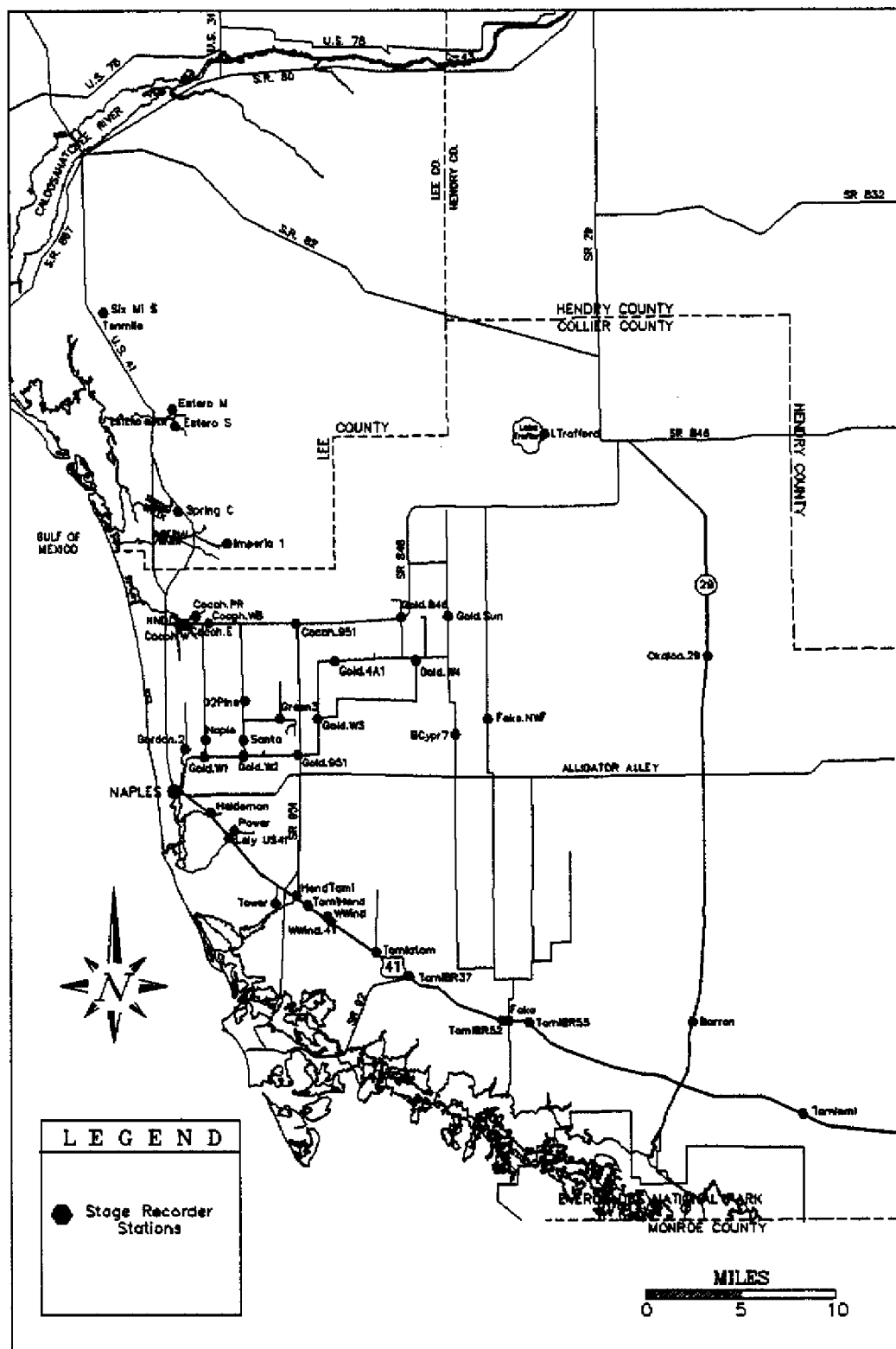


FIGURE A-15. Vertical Conductance, Bottom of Layer 4

APPENDIX B

RIVER PACKAGE INPUT DATA



RIVER PACKAGE DATA

Layer	Row	Column	Average Stage	River Bed Conductance	River Bottom Elevation
1	58	36	0.38	51427.	-2.00
1	59	36	0.38	66144.	-2.00
1	59	35	0.38	39488.	-2.00
1	60	35	0.38	47760.	-3.00
1	61	35	0.38	23867.	-4.00
1	62	34	0.38	82620.	-5.00
1	55	27	0.38	77136.	-6.00
1	56	27	0.38	380160.	-6.00
1	57	27	0.38	304128.	-6.00
1	58	27	0.38	253440.	-6.00
1	59	27	0.38	347340.	-6.00
1	41	11	0.34	42800.	-6.00
1	41	10	0.34	177600.	-8.00
1	41	10	0.34	25707.	-6.00
1	42	10	0.34	10400.	-8.00
1	43	9	0.34	851840.	-8.00
1	44	9	0.34	1858560.	-8.00
1	34	9	1.13	15608.	-2.00
1	34	10	1.46	9787.	-3.00
1	34	10	1.57	9787.	-3.00
1	33	9	1.13	117787.	-3.00
1	33	8	0.81	342667.	-4.00
1	33	7	0.81	244800.	-4.00
1	32	7	0.81	1890000.	-5.00
1	31	7	0.81	224000.	-6.00
1	33	10	1.46	13007.	-3.00
1	34	10	1.46	20811.	-3.00
1	49	14	0.43	32125.	-4.00
1	49	15	0.43	137109.	-3.00
1	49	14	0.43	130067.	-4.00
1	50	14	0.43	578400.	-5.00
1	50	13	0.43	1234800.	-6.00
1	51	13	0.43	502333.	-6.50
1	45	13	1.08	55808.	-2.00
1	45	12	1.08	111440.	-2.00
1	46	12	0.63	37200.	-2.00
1	46	11	0.63	37973.	-2.00
1	47	11	0.63	17440.	-2.50
1	47	10	0.60	20576.	-3.00

- * Average monthly stage (Feb 1986 - Dec 1988) used in steady state runs. Actual monthly values used in transient runs. River stage and river bottom elevations are in feet (NGVD)
- ** River bed conductance for each cell is calculated as the product of the average wetted perimeter 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.

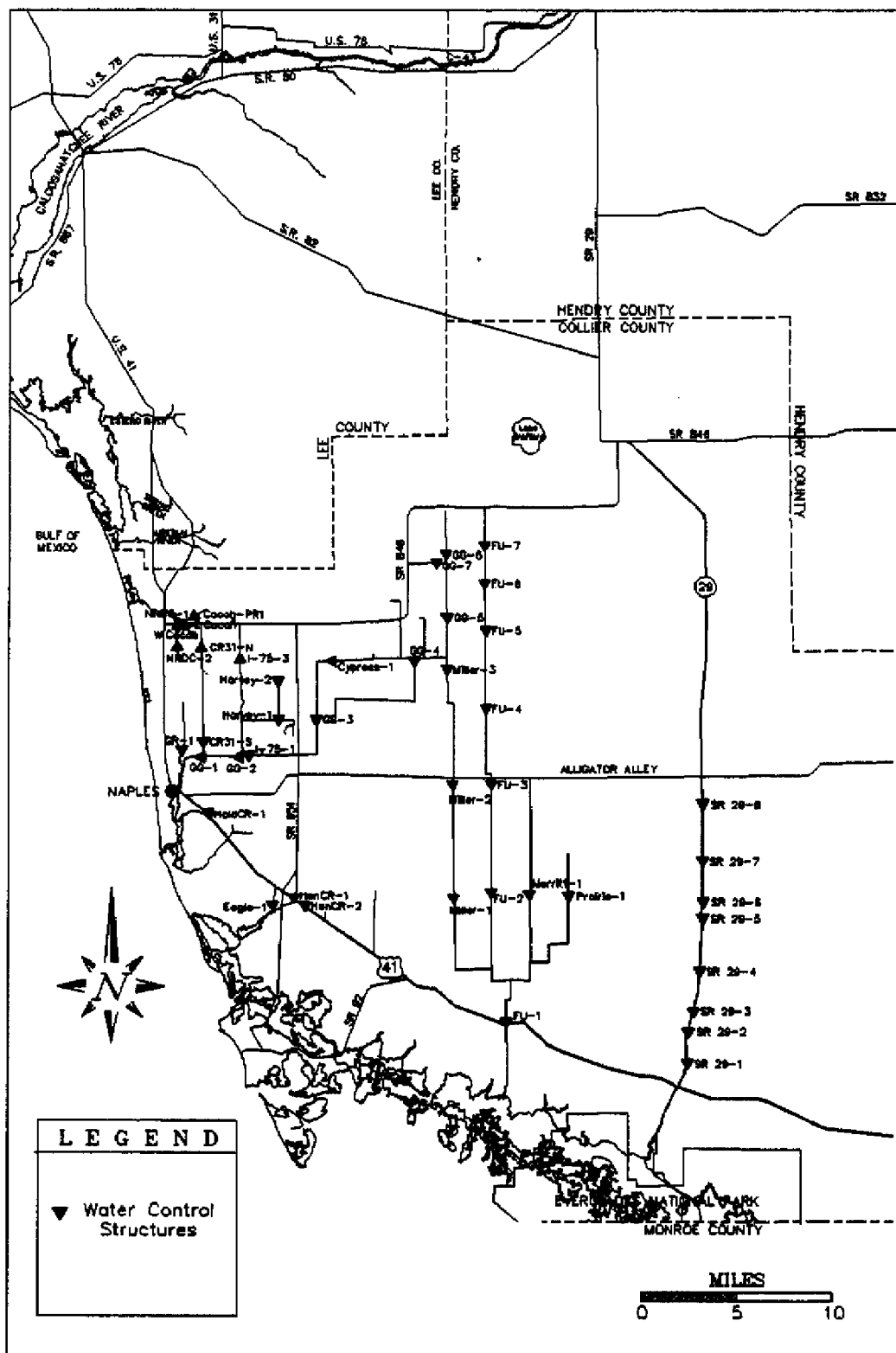
RIVER PACKAGE DATA

Layer	Row	Column	Average Stage	River Bed Conductance	River Bottom Elevation
1	47	9	0.37	1461456.	-3.00
1	44	11	0.37	40400.	-3.00
1	44	10	0.37	137700.	-3.00
1	45	9	0.37	1281280.	-5.00
1	45	10	0.37	901120.	-5.00
1	46	9	0.37	3322667.	-5.00
1	46	10	0.37	964480.	-5.00
1	23	27	20.00	2695000.	10.00
1	23	28	20.00	2953513.	10.00
1	24	27	20.00	2024007.	10.00
1	24	28	20.00	6145920.	10.00
1	23	6	0.37	280000.	-2.50
1	22	6	0.37	46667.	-2.50
1	23	7	0.83	74667.	-2.50
1	22	7	0.83	117333.	-2.50
1	23	8	1.28	49333.	-2.50
1	22	8	1.28	30000.	-2.50
1	23	10	1.74	10000.	0.00
1	23	9	1.74	82133.	-2.50
1	22	9	3.16	56000.	0.00
1	26	7	0.36	320000.	-2.50
1	27	7	0.47	283333.	-3.00
1	28	7	1.23	28000.	-4.00
1	27	8	1.99	48000.	0.00
1	27	9	2.76	20000.	-4.50
1	29	7	0.49	373333.	-7.00
1	29	8	0.77	268000.	-5.50
1	29	9	1.24	154667.	-5.50
1	29	9	1.24	154667.	-5.50
1	29	10	1.73	128000.	-5.00
1	29	11	2.23	28000.	-7.00
1	30	10	1.73	74667.	-3.60
1	30	11	2.04	37333.	3.00
1	29	10	1.73	21600.	-3.40
1	29	11	2.23	32760.	2.00
1	30	11	2.43	9096.	4.00

- * Average monthly stage (Feb 1986 - Dec 1988) used in steady state runs. Actual monthly values used in transient runs. River stage and river bottom elevations are in feet (NGVD)
- ** River bed conductance for each cell is calculated as the product of the average wetted perimeter 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

DRAIN PACKAGE INPUT DATA



Location of Water Control Structures

DRAIN PACKAGE DATA

LAYER	ROW	COLUMN	DRAIN ELEVATION	DRAIN CONDUCTANCE
1	34	10	1.0	76032.
1	34	11	2.0	76032.
1	34	12	2.0	76032.
1	34	13	3.0	76032.
1	34	14	4.0	76032.
1	34	15	5.0	76032.
1	34	16	6.0	76032.
1	34	17	6.0	63360.
1	34	18	7.0	84480.
1	34	19	7.0	84480.
1	34	20	7.0	76032.
1	33	21	8.0	76032.
1	42	16	6.0	112640.
1	42	17	6.0	112640.
1	42	18	6.0	112640.
1	42	19	6.0	112640.
1	42	20	6.0	112640.
1	42	21	6.0	112640.
1	42	22	6.0	112640.
1	42	23	6.0	112640.
1	42	24	6.0	112640.
1	42	25	6.2	112640.
1	42	26	6.2	112640.
1	42	27	7.2	112640.
1	42	28	7.2	112640.
1	42	29	8.0	112640.
1	42	30	8.0	112640.
1	42	31	9.0	112640.
1	42	32	9.5	112640.
1	42	33	9.5	112640.
1	42	34	9.5	112640.
1	42	35	9.5	112640.
1	42	36	9.5	112640.
1	42	37	9.5	112640.
1	42	38	9.5	112640.
1	42	39	9.5	112640.
1	42	40	9.5	112640.
1	42	41	9.0	112640.
1	42	42	9.0	112640.
1	42	43	9.0	112640.
1	41	44	9.0	112640.
1	41	45	9.0	112640.

* Drain elevations are in feet (NGVD)

** Drain Bed Conductance for each cell is calculated as the product of the average wetted perimeter of the drain, the length of the drain reach in a cell and the hydraulic conductivity of the drain bed divided by the thickness of the drain bed.

DRAIN PACKAGE DATA

LAYER	ROW	COLUMN	DRAIN ELEVATION	DRAIN CONDUCTANCE
1	41	46	9.0	112640.
1	41	47	9.0	112640.
1	61	47	2.5	44080.
1	61	46	2.5	84480.
1	61	45	2.5	84480.
1	61	44	2.5	84480.
1	61	43	2.5	110208.
1	61	42	2.5	23872.
1	60	42	2.5	60608.
1	60	41	2.5	91840.
1	60	40	2.0	40400.
1	59	40	2.0	40400.
1	59	39	2.0	67584.
1	59	38	2.0	56320.
1	59	37	2.0	117547.
1	59	36	2.0	103584.
1	59	35	2.0	51802.
1	58	35	2.0	51802.
1	58	34	2.0	107733.
1	58	33	2.0	126720.
1	58	32	2.0	103584.
1	58	31	2.0	25760.
1	57	31	2.0	60608.
1	57	30	2.0	90000.
1	57	29	2.0	62400.
1	56	28	2.0	72693.
1	55	28	2.0	24230.
1	55	27	2.0	103584.
1	55	26	2.0	90000.
1	55	25	2.0	90000.
1	55	24	2.0	40400.
1	54	24	2.0	59680.
1	54	23	2.0	52040.
1	53	23	2.0	24480.
1	53	22	2.0	95520.
1	53	21	2.0	35808.
1	52	21	2.0	28160.
1	52	20	2.0	101008.
1	51	19	2.0	68133.
1	51	18	2.0	17173.
1	50	18	2.0	39179.

* Drain elevations are in feet (NGVD)

** Drain Bed Conductance for each cell is calculated as the product of the average wetted perimeter of the drain, the length of the drain reach in a cell and the hydraulic conductivity of the drain bed divided by the thickness of the drain bed.

DRAIN PACKAGE DATA

LAYER	ROW	COLUMN	DRAIN ELEVATION	DRAIN CONDUCTANCE
1	50	17	2.0	41320.
1	49	17	2.0	9200.
1	49	16	2.0	101008.
1	49	15	2.0	16827.
1	48	15	2.0	67333.
1	48	14	2.0	33520.
1	47	14	2.0	25099.
1	47	13	2.0	24480.
1	46	13	2.0	18363.
1	46	12	2.0	21440.
1	45	12	2.0	26320.
1	45	11	2.0	9787.
1	44	11	2.0	30613.
1	44	10	2.0	7957.
1	43	10	2.0	27547.
1	43	9	2.0	7344.
1	24	34	24.0	7800.
1	25	34	23.0	36000.
1	25	35	22.0	22864.
1	26	35	20.0	86320.
1	26	36	19.0	24800.
1	27	36	17.5	93600.
1	27	37	16.5	48480.
1	28	37	15.0	66120.
1	29	37	15.0	42240.
1	30	37	15.0	50688.
1	31	37	15.0	46464.
1	32	37	14.5	42240.
1	33	37	14.0	50688.
1	34	37	13.5	46464.
1	35	37	13.0	42240.
1	36	37	12.5	63360.
1	37	37	12.0	63360.
1	38	37	11.5	63360.
1	39	37	11.0	63360.
1	40	37	10.5	38016.
1	40	37	10.0	63360.
1	41	37	10.0	84480.
1	42	37	9.5	168960.
1	43	37	9.0	70400.
1	44	37	8.0	56320.

* Drain elevations are in feet (NGVD)

** Drain Bed Conductance for each cell is calculated as the product of the average wetted perimeter of the drain, the length of the drain reach in a cell and the hydraulic conductivity of the drain bed divided by the thickness of the drain bed.

DRAIN PACKAGE DATA

LAYER	ROW	COLUMN	DRAIN ELEVATION	DRAIN CONDUCTANCE
1	45	37	8.0	56320.
1	46	37	8.0	56320.
1	47	37	7.0	56320.
1	48	37	7.0	56320.
1	49	37	7.0	12267.
1	49	37	6.0	47947.
1	50	37	6.0	11733.
1	50	37	5.0	56320.
1	51	37	5.0	56320.
1	52	37	5.0	56320.
1	53	37	4.0	70400.
1	54	37	4.0	51413.
1	55	36	4.0	14667.
1	55	36	3.0	53867.
1	56	36	3.0	19573.
1	56	36	2.0	53866.
1	57	36	2.0	56320.
1	46	30	3.7	29376.
1	47	30	3.7	101376.
1	48	30	3.7	101376.
1	49	30	2.0	168960.
1	50	30	2.0	168960.
1	51	30	2.0	168960.
1	51	29	2.0	159840.
1	52	29	2.0	140800.
1	52	28	2.0	71640.
1	42	28	5.6	137107.
1	43	28	5.6	84480.
1	44	28	5.6	101376.
1	45	28	5.6	126720.
1	46	28	5.6	126720.
1	47	28	5.6	126720.
1	48	28	5.6	126720.
1	49	28	2.0	168960.
1	50	28	2.0	202752.
1	51	28	2.0	202752.
1	52	28	2.0	274392.
1	53	28	2.0	196224.
1	53	27	2.0	123264.
1	28	26	18.1	63360.
1	29	26	18.1	63360.

* Drain elevations are in feet (NGVD)

** Drain Bed Conductance for each cell is calculated as the product of the average wetted perimeter of the drain, the length of the drain reach in a cell and the hydraulic conductivity of the drain bed divided by the thickness of the drain bed.

DRAIN PACKAGE DATA

LAYER	ROW	COLUMN	DRAIN ELEVATION	DRAIN CONDUCTANCE
1	30	26	14.1	63360.
1	31	26	14.1	63360.
1	32	26	11.3	70400.
1	33	26	11.3	84480.
1	34	26	11.3	45904.
1	34	26	9.6	84480.
1	35	26	9.6	84480.
1	36	26	9.6	190080.
1	37	26	9.6	190080.
1	38	26	9.6	190080.
1	39	26	6.2	190080.
1	40	26	6.2	152064.
1	41	26	6.2	152064.
1	42	26	6.2	350528.
1	43	26	4.0	112640.
1	44	26	4.0	112640.
1	45	26	4.0	126720.
1	46	26	4.0	140800.
1	47	26	4.0	168960.
1	48	26	4.0	158669.
1	48	26	2.0	232141.
1	49	26	2.0	337920.
1	50	26	2.0	337920.
1	51	26	2.0	202752.
1	52	26	2.0	309200.
1	53	26	2.0	495600.
1	53	27	2.0	409824.
1	54	27	2.0	627840.
1	55	27	2.0	456192.
1	36	24	6.2	28336.
1	37	24	6.2	116160.
1	38	24	6.2	159060.
1	39	24	6.2	126720.
1	40	24	6.2	126720.
1	41	24	6.2	168960.
1	42	24	6.2	281600.
1	43	24	3.9	168960.
1	44	24	3.9	168960.
1	45	24	3.9	140800.
1	46	24	3.9	154880.
1	47	24	3.9	168960.

* Drain elevations are in feet (NGVD)

** Drain Bed Conductance for each cell is calculated as the product of the average wetted perimeter of the drain, the length of the drain reach in a cell and the hydraulic conductivity of the drain bed divided by the thickness of the drain bed.

DRAIN PACKAGE DATA

LAYER	ROW	COLUMN	DRAIN ELEVATION	DRAIN CONDUCTANCE
1	48	24	3.9	168960.
1	49	24	3.9	22016.
1	49	24	2.0	168960.
1	50	24	2.0	168960.
1	51	24	2.0	168960.
1	52	24	2.0	168960.
1	53	24	2.0	105600.
1	53	25	2.0	202752.
1	53	26	2.0	581616.
1	28	23	15.7	44064.
1	29	23	15.7	50688.
1	30	23	15.7	50688.
1	31	23	10.5	126720.
1	32	23	10.5	126720.
1	33	23	10.5	148752.
1	32	22	10.5	209640.
1	32	23	10.5	314040.
1	33	23	10.5	303072.
1	32	22	10.5	273000.
1	32	23	10.5	377400.
1	33	23	8.5	344400.
1	34	23	8.5	152064.
1	35	23	8.5	152064.
1	36	23	8.5	175190.
1	36	22	8.5	102528.
1	36	22	7.0	269952.
1	37	22	7.0	253440.
1	38	22	7.0	198240.
1	38	21	7.0	253440.
1	38	20	7.0	253440.
1	38	19	7.0	225280.
1	38	18	7.0	337200.
1	39	18	7.0	96960.
1	39	17	7.0	171878.
1	34	16	5.0	141232.
1	35	16	5.0	84480.
1	36	16	5.0	84480.
1	37	16	5.0	84480.
1	38	16	5.0	70400.
1	39	16	5.0	56320.
1	40	16	5.0	56320.

* Drain elevations are in feet (NGVD)

** Drain Bed Conductance for each cell is calculated as the product of the average wetted perimeter of the drain, the length of the drain reach in a cell and the hydraulic conductivity of the drain bed divided by the thickness of the drain bed.

DRAIN PACKAGE DATA

LAYER	ROW	COLUMN	DRAIN ELEVATION	DRAIN CONDUCTANCE
1	41	16	5.0	22027.
1	36	15	10.0	35820.
1	37	15	10.0	23460.
1	37	15	8.0	87300.
1	38	15	8.0	101376.
1	39	15	8.0	60600.
1	40	15	6.3	68880.
1	39	15	6.3	383800.
1	39	14	6.3	168960.
1	39	13	6.3	132224.
1	39	14	6.3	337920.
1	39	15	6.3	431800.
1	40	14	6.3	59200.
1	34	13	10.0	138464.
1	35	13	10.0	84480.
1	36	13	6.3	104640.
1	37	13	6.3	168960.
1	38	13	6.3	202752.
1	39	13	6.3	301184.
1	40	13	6.3	253440.
1	41	13	6.3	126720.
1	35	11	8.5	15150.
1	36	11	8.5	31680.
1	37	11	8.5	42240.
1	38	11	8.7	135168.
1	39	11	8.7	135168.
1	40	11	8.7	79920.
1	41	11	3.4	57840.
1	39	17	6.0	282011.
1	40	17	6.0	281600.
1	41	17	6.0	140800.
1	41	16	6.0	275467.
1	41	15	6.0	168960.
1	40	14	6.0	235520.
1	41	14	6.0	73600.
1	40	15	6.0	142480.
1	41	15	6.0	352640.
1	41	14	5.5	242560.
1	41	13	5.0	378320.
1	41	12	3.4	225280.
1	41	11	3.4	224440.

* Drain elevations are in feet (NGVD)

** Drain Bed Conductance for each cell is calculated as the product of the average wetted perimeter of the drain, the length of the drain reach in a cell and the hydraulic conductivity of the drain bed divided by the thickness of the drain bed.

DRAIN PACKAGE DATA

LAYER	ROW	COLUMN	DRAIN ELEVATION	DRAIN CONDUCTANCE
1	36	22	8.5	336000.
1	36	21	8.5	126720.
1	36	20	8.5	112640.
1	36	19	8.5	101376.
1	36	18	8.5	101376.
1	36	17	7.0	249760.
1	37	17	7.0	84480.
1	38	17	7.0	84480.
1	39	17	7.0	309647.
1	33	22	8.5	277240.
1	34	22	8.5	101376.
1	35	22	8.5	101376.
1	36	22	8.5	477926.
1	30	21	12.5	9150.
1	31	20	12.5	51400.
1	31	21	12.5	52800.
1	32	20	12.5	52800.
1	32	21	12.5	52800.
1	32	21	11.5	118920.
1	33	21	11.5	202752.
1	34	21	10.5	101376.
1	35	21	9.5	101376.
1	36	21	8.5	137760.
1	34	20	8.5	146432.
1	35	20	8.5	70400.
1	30	22	13.1	63360.
1	30	23	13.1	80988.
1	30	23	10.5	126438.
1	38	10	3.5	38560.
1	39	10	3.5	84480.
1	40	10	3.5	83920.
1	41	10	3.5	18280.
1	36	9	7.2	6123.
1	35	9	7.2	11013.
1	35	9	6.0	41877.
1	34	9	6.0	26736.
1	34	9	4.0	35016.
1	34	10	4.0	100501.
1	33	10	4.5	10700.
1	43	16	6.0	56320.
1	44	16	6.0	84480.

* Drain elevations are in feet (NGVD)

** Drain Bed Conductance for each cell is calculated as the product of the average wetted perimeter of the drain, the length of the drain reach in a cell and the hydraulic conductivity of the drain bed divided by the thickness of the drain bed.

DRAIN PACKAGE DATA

LAYER	ROW	COLUMN	DRAIN ELEVATION	DRAIN CONDUCTANCE
1	45	16	6.0	84480.
1	46	16	6.0	101376.
1	47	16	6.0	101376.
1	48	16	5.5	112640.
1	49	16	5.0	147008.
1	48	14	2.0	127787.
1	49	14	2.0	120400.
1	44	11	2.5	98965.
1	48	20	3.0	19893.
1	49	20	3.0	70400.
1	50	20	2.5	70400.
1	51	20	2.0	70400.
1	52	20	2.0	171408.
1	9	16	14.0	36000.
1	9	17	14.0	27000.
1	10	17	14.0	37800.
1	10	18	18.5	58500.
1	10	19	18.5	13500.
1	11	19	18.5	40500.
1	11	20	18.5	36000.
1	11	20	20.5	49500.
1	11	21	20.5	49500.
1	11	22	20.5	45000.
1	11	23	20.5	49500.
1	9	16	14.0	79200.
1	10	16	19.7	67500.
1	11	16	19.7	22500.
1	11	16	23.1	46800.
1	12	16	23.1	47700.
1	13	16	23.1	47700.
1	14	16	23.1	10800.
1	10	17	19.7	84600.
1	11	17	19.7	16200.
1	11	17	24.0	48600.
1	12	17	24.0	48600.
1	13	17	24.0	40500.
1	9	17	14.0	51300.
1	9	17	15.8	73800.
1	8	18	15.8	46800.
1	8	19	15.8	46800.
1	8	20	15.8	46800.

* Drain elevations are in feet (NGVD)

** Drain Bed Conductance for each cell is calculated as the product of the average wetted perimeter of the drain, the length of the drain reach in a cell and the hydraulic conductivity of the drain bed divided by the thickness of the drain bed.

DRAIN PACKAGE DATA

LAYER	ROW	COLUMN	DRAIN ELEVATION	DRAIN CONDUCTANCE
1	8	21	15.8	46800.
1	8	17	15.8	46800.
1	7	17	15.8	46800.
1	6	17	15.8	46800.
1	6	23	17.9	36000.
1	7	23	17.9	47700.
1	8	23	17.9	13500.
1	8	23	21.2	47700.
1	9	23	21.2	45000.
1	10	23	21.2	46800.
1	11	23	21.2	96300.
1	6	24	20.6	24300.
1	7	24	20.6	46800.
1	8	24	20.6	12600.
1	8	24	22.6	46800.
1	9	24	22.6	47700.
1	10	24	22.6	46800.
1	11	24	22.6	68400.
1	12	23	22.6	8100.
1	12	23	24.1	45900.
1	14	23	24.1	47700.
1	15	23	24.1	46800.
1	16	23	24.1	46800.
1	17	23	24.1	31500.
1	5	17	10.5	47700.
1	4	17	8.0	47700.
1	5	23	12.0	31500.
1	6	23	12.0	42300.
1	5	24	15.0	45000.
1	6	24	15.0	46800.
1	17	23	27.0	102620.
1	18	23	27.0	110720.
1	15	23	27.0	111200.
1	14	23	27.0	98900.
1	13	23	27.0	53200.
1	12	23	27.0	94700.
1	17	22	27.0	26800.
1	16	22	27.0	57600.
1	15	22	27.0	85600.
1	14	22	27.0	80400.
1	13	22	27.0	75200.

* Drain elevations are in feet (NGVD)

** Drain Bed Conductance for each cell is calculated as the product of the average wetted perimeter of the drain, the length of the drain reach in a cell and the hydraulic conductivity of the drain bed divided by the thickness of the drain bed.

DRAIN PACKAGE DATA

LAYER	ROW	COLUMN	DRAIN ELEVATION	DRAIN CONDUCTANCE
1	12	22	27.0	49200.
1	16	21	27.0	34800.
1	15	21	27.0	46000.
1	14	21	27.0	60000.
1	13	21	27.0	55200.
1	12	21	27.0	28400.
1	12	23	20.5	104700.
1	12	22	20.5	77200.
1	12	21	20.5	38800.
1	11	21	20.5	84700.
1	10	23	21.2	67920.
1	10	22	21.2	21120.
1	9	22	21.2	20000.
1	9	23	21.2	66120.
1	8	23	21.2	68820.
1	8	22	21.2	20000.
1	7	22	17.9	20000.
1	7	23	17.9	68820.
1	6	23	17.9	84540.
1	6	22	17.9	42400.
1	6	21	15.0	72720.
1	6	20	15.0	48000.
1	6	19	15.0	58800.
1	6	18	15.0	66000.
1	7	18	15.0	12000.
1	5	18	15.0	20000.
1	5	19	15.0	20000.
1	5	20	15.0	20000.
1	5	21	15.0	6000.
1	16	21	27.4	56000.
1	15	21	27.4	73600.
1	14	21	27.4	83200.
1	13	21	27.4	85600.
1	16	20	27.4	30400.
1	15	20	27.4	74800.
1	14	20	27.4	65200.
1	13	20	27.4	65200.
1	15	19	28.0	31200.
1	14	18	28.0	36000.
1	13	19	24.0	90800.
1	12	19	24.0	29200.

* Drain elevations are in feet (NGVD)

** Drain Bed Conductance for each cell is calculated as the product of the average wetted perimeter of the drain, the length of the drain reach in a cell and the hydraulic conductivity of the drain bed divided by the thickness of the drain bed.

DRAIN PACKAGE DATA

LAYER	ROW	COLUMN	DRAIN ELEVATION	DRAIN CONDUCTANCE
1	13	18	24.0	44800.
1	12	21	24.7	76800.
1	11	21	24.7	105900.
1	12	20	24.7	98400.
1	12	19	24.7	44400.
1	13	18	24.0	68800.
1	12	18	24.0	62400.
1	11	18	24.0	92000.
1	14	17	23.1	18000.
1	13	17	23.1	89700.
1	12	17	23.1	95000.
1	11	17	23.1	67400.
1	3	17	23.1	8800.
1	13	16	23.1	86100.
1	12	16	23.1	95300.
1	11	16	23.1	85600.
1	13	15	23.1	34800.
1	12	15	23.1	38800.
1	13	14	23.1	5600.
1	12	14	23.1	9600.
1	11	17	19.7	88200.
1	11	16	19.7	95200.
1	10	16	19.7	97100.
1	12	15	19.7	59200.
1	11	15	19.7	69600.
1	10	15	19.7	85600.
1	12	14	19.7	66800.
1	11	14	19.7	64400.
1	10	14	19.7	76000.
1	9	14	19.7	33600.
1	12	13	19.7	32400.
1	11	13	19.7	4000.
1	10	13	19.7	88400.
1	9	13	19.7	46000.
1	11	12	19.7	39200.
1	10	12	19.7	68400.
1	9	12	19.7	31200.
1	10	17	14.0	94600.
1	9	17	14.0	110200.
1	10	16	14.0	130300.
1	9	16	14.0	133200.

* Drain elevations are in feet (NGVD)

** Drain Bed Conductance for each cell is calculated as the product of the average wetted perimeter of the drain, the length of the drain reach in a cell and the hydraulic conductivity of the drain bed divided by the thickness of the drain bed.

DRAIN PACKAGE DATA

LAYER	ROW	COLUMN	DRAIN ELEVATION	DRAIN CONDUCTANCE
1	8	16	14.0	46800.
1	7	16	14.0	30400.
1	9	15	14.0	57200.
1	9	14	14.0	43600.
1	7	14	14.0	10000.
1	11	21	18.5	116300.
1	10	21	18.5	20000.
1	9	21	18.5	20000.
1	10	20	18.5	21200.
1	9	20	18.5	21200.
1	11	19	18.5	85300.
1	10	19	18.5	37500.
1	9	19	18.5	20000.
1	10	18	18.5	94500.
1	9	18	18.5	20400.
1	10	17	18.5	113800.
1	7	20	15.8	21200.
1	7	19	15.8	20800.
1	7	18	15.8	33200.
1	8	17	15.8	90000.
1	7	17	15.8	91200.
1	6	17	15.8	78800.
1	6	16	15.8	44800.
1	7	16	15.8	53200.
1	7	15	15.8	8400.
1	6	17	13.0	118000.
1	6	16	13.0	91200.
1	6	15	13.0	115200.

* Drain elevations are in feet (NGVD)

** Drain Bed Conductance for each cell is calculated as the product of the average wetted perimeter of the drain, the length of the drain reach in a cell and the hydraulic conductivity of the drain bed divided by the thickness of the drain bed.

APPENDIX D

RECHARGE PACKAGE INPUT DATA

LIST OF FIGURES - APPENDIX D

Figure		Page
D-1	Soil Associations	127
D-2	General Land Use (Level 1)	129

LIST OF TABLES - APPENDIX D

Table		Page
D-1	Average Vertical Soil Hydraulic Conductivities	128
D-2	SFWMD Land Use and Land Cover Classification Code	130
D-3	Crop Coefficients/Land Use Type Coefficients	134
D-4	Coefficients Used in Net Recharge Calculations (K_i, K_s and K_a) .	138

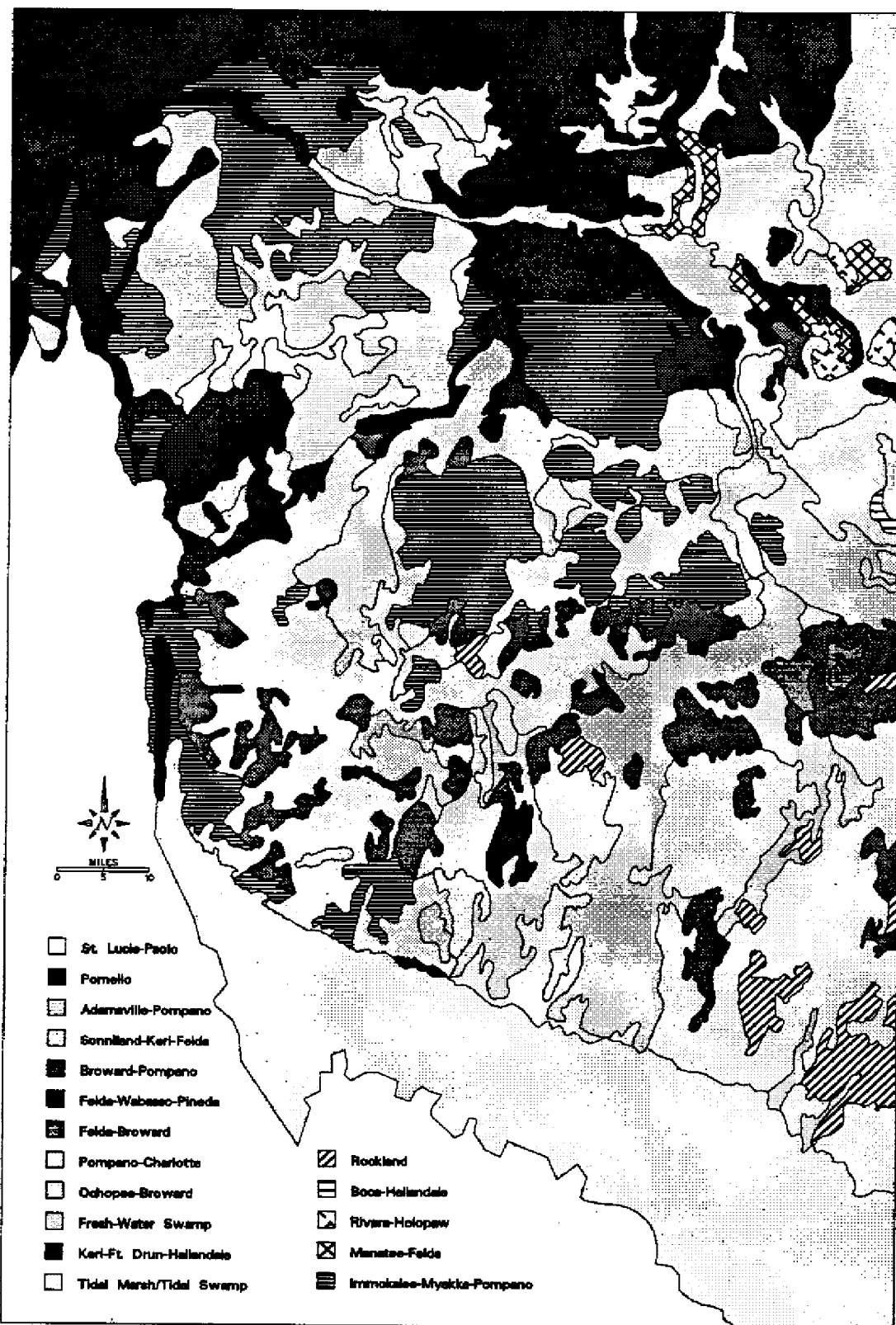


FIGURE D-1.

Soil Associations

TABLE D-1: Average Vertical Soil Hydraulic Conductivities

Soil Association	Vertical Hydraulic Conductivity (inches/hr)
St. Lucie - Paolo	10.0
Pomello	11.0
Immokalee - Myakka - Pompano	3.4
Adamsville - Pompano	7.2
Sunniland - Keri - Felda	2.8
Broward - Pompano	6.0
Keri - Ft. Drum - Hallandale	3.7
Felda - Wabasso - Pineda	3.6
Felda - Broward	3.8
Pompano - Charlotte	6.0
Ochopee - Broward	3.2
Fresh-Water Swamp	10.0
Tidal Marsh / Tidal Swamp	13.0
Rockland	8.5
Boca - Hallandale	10.9
Riveria - Holopaw	2.2
Manatee - Felda	3.8

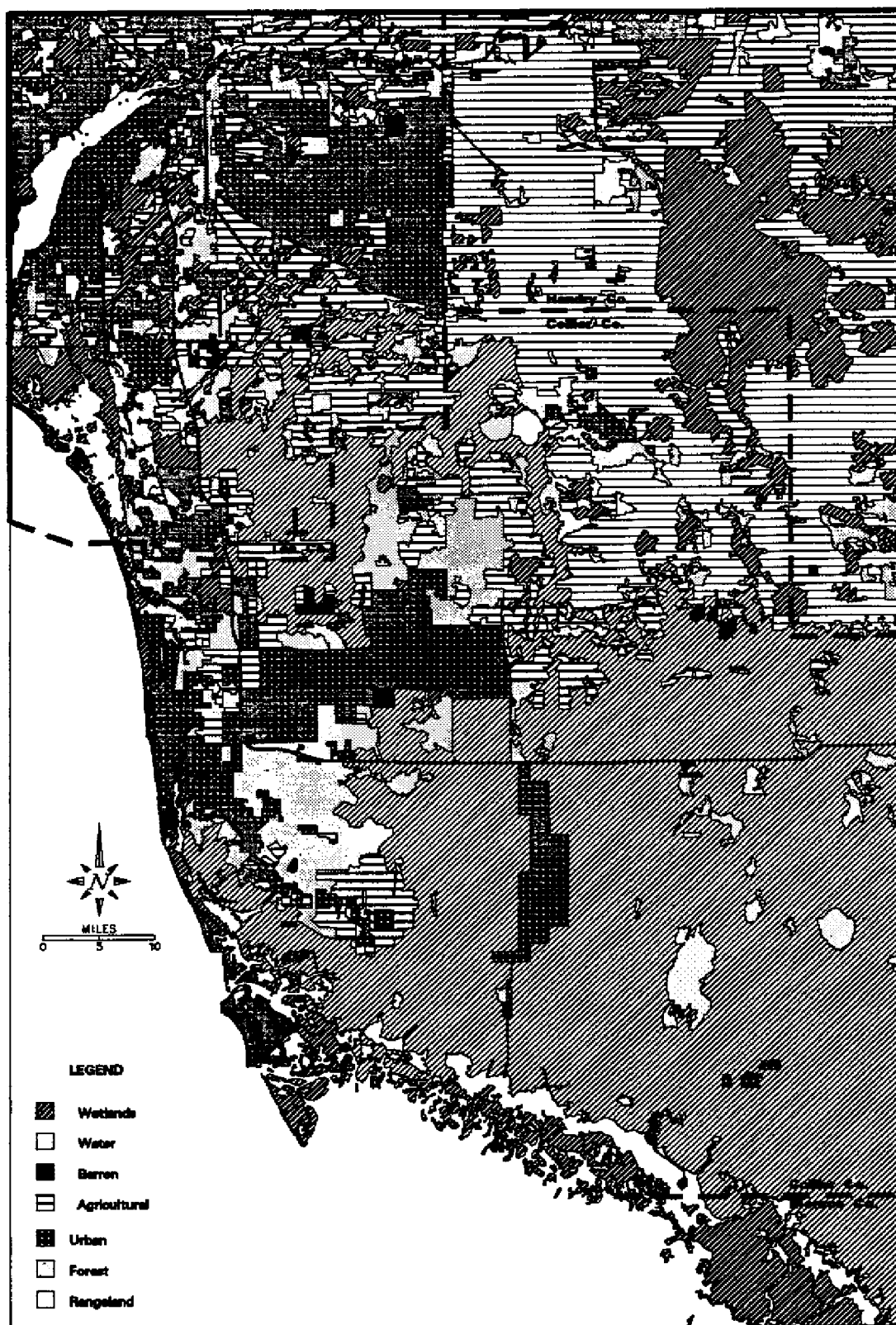


FIGURE D-2.

General Land Use (Level 1)

TABLE D-2.

S.F.W.M.D. LAND USE AND LAND COVER CLASSIFICATION CODE

LEVEL I LEVEL II LEVEL III

(U) Urban and built-up land

(UR) Residential

(URSL) Single-family, Low Density (under 2 D.U./gross acre)
 (URSM) Single-family, Medium Density (2 to 5 D.U./gross acre)
 (URSH) Single-family, High Density (over 5 D.U./gross acre)
 (URMF) Multi-family building
 (URMH) Mobile homes

(UC) Commercial and Services

(UCPL) Parking lot
 (UCSC) Shopping center
 (UCSS) Sales and services
 (UCCE) Cultural and Entertainment
 (UCMC) Marine commercial (Marinas)
 (UCHM) Hotel-Motel

(UI) Industrial

(UIJK) Junkyard
 (UILT) Other light industrial
 (UIHV) Other heavy industrial

(US) Institutional

(USED) Educational
 (USMD) Medical
 (USRL) Religious
 (USMF) Military
 (USCF) Correctional
 (USGF) Governmental (other than military or correctional)
 (USSS) Social services (Elks, Moose, Eagles)

(UT) Transportation

(UTAP) Airports
 (UTAG) Small grass airports
 (UTRR) Railroad yards and terminals
 (UTPF) Port facilities
 (UTEP) Electrical power facilities
 (UTTLL) Major transmission lines
 (UTHW) Major highway and rights-of-way
 (UTWS) Water supply plants
 (UTSP) Sewerage treatment plants
 (UTSW) Solid waste disposal

(UTRS) Antenna arrays
(UTOG) Oil and gas storage

(UO) Open and others

(UORC) Recreational facilities
(UOGC) Golf courses
(UOPK) Parks
(UOCM) Cemeteries
(UORV) Recreational vehicle parks
(UOUD) Open under development
(UOUN) Open and undeveloped within
urban area

(A) Agriculture

(AC) Cropland

(ACSC) Sugar cane
(ACTC) Truck crops
(ACRF) Rice fields

(AP) Pasture

(APIM) Improved pasture
(APUN) Unimproved pasture

(AM) Groves, Ornamentals, Nurseries, Tropical fruits

(AMCT) Citrus
(AMTF) Tropical fruits
(AMSF) Sod farms
(AMOR) Ornamentals

(AF) Confined feeding operations

(AFFL) Cattle feed lots
(AFDF) Dairy farms
(AFFF) Fish farms
(AFHT) Horse training and stables
(AFPY) Poultry

(R) Rangeland

(RG) Grassland

(RS) Scrub and brushland

(RSPP) Palmetto prairies
(RSSB) Brushland

(F) Forested uplands

(FE) Coniferous

- (FEPF)** Pine flatwoods
- (FESP)** Sand pine scrub
- (FECF)** Commercial forest (pine)

(FO) Non-coniferous

- (FOAP)** Australian pine
- (FOBP)** Brazilian pepper
- (FOPA)** Palms
- (FOSO)** Scrub oak
- (FOOK)** Oak
- (FOCF)** Commercial forest

(FM) Mixed forested

- (FMTW)** Temperate hardwoods
- (FMCM)** Cabbage palms/Melaleuca
- (FMCO)** Cabbage palms/Oaks
- (FMPPM)** Pine/Melaleuca
- (FMPO)** Pine/Oak
- (FMTH)** Tropical hammocks
- (FMOF)** Old fields forested
- (FMCD)** Coastal dunes
- (FMPC)** Pine/Cabbage palms

(W) Wetlands

(WF) Forested fresh

- (WFCM)** Cypress/Melaleuca
- (WFCY)** Cypress
- (FWWL)** Willow
- (WFME)** Melaleuca
- (WFSB)** Scrub and brushland
- (WFMX)** Mixed forested

(WN) Non-forested fresh

- (WNSG)** Sawgrass
- (WNCT)** Cattail
- (WNBR)** Bullrush
- (WNWC)** Wire cordgrass
- (WNAG)** Mixed aquatic grass
- (WNWL)** Sloughs

(WS) Forested salt

- (WSRM)** Red mangrove
- (WSBW)** Black and White mangrove

(WM) Non-forested salt

(WX) Mixed forested and non-forested fresh

(WXPP) Pine and wet prairies

(WXCP) Cypress domes and wet prairies

(WXHM) Hardwood marsh

(H) Water

(B) Barren land

(BB) Beaches

(BP) Extractive

**(strip mines, quarries, and
gravel pits)**

(BS) Spoil areas

(BL) Levees

*** Documentation of major codes from "LAND USE, COVER AND FORMS CLASSIFICATION SYSTEM, A TECHNICAL MANUAL", Department of Transportation, State Topographic Office Remote Sensing Center, Kuyper, Becker and Shopmyer, February 1981**

TABLE D-3. CROP COEFFICIENTS/LAND USE TYPE COEFFICIENTS

Land Use	Month												
	Covered %	1	2	3	4	5	6	7	8	9	10	11	12
U	.50	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
UR	.48	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
URSL	.67	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
URSM	.53	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
URSH	.45	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
URMF	.33	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
URMH	.40	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
UC	.20	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
UCPL	.25	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
UCSC	.20	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
UCSS	.20	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
UCCE	.20	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
UCMC	.20	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
UCHM	.20	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
UI	.20	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
UIK	.20	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
UILT	.20	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
UIHV	.05	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
US	.70	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
USED	.70	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
USMD	.60	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
USRL	.70	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
USMF	.60	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
USCF	.70	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
USGF	.70	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
USSS	.70	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
UT	.50	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
UTAP	.10	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

UTAG	.20	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
UTRR	.50	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
UTPF	.05	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
UTEP	.50	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
UTTL	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
UTHW	.50	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
UTWS	.50	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
UTSP	.50	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
UTSW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
UTRS	.50	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
UTOG	.50	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
UO	.90	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
UORC	.90	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
UOGC	.90	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
UOPK	.90	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
UOCM	.90	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
UORV	.90	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
UOUD	.90	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
UOUN	.90	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
AC	1.0	.41	.44	.63	.67	.64	.69	.72	.71	.72	.86	.74	.64
ACSC	1.0	.39	.30	.53	.61	.70	.79	.79	.84	.73	.88	.72	.69
ACTC	1.0	.44	.71	.82	.78	.53	.49	.57	.44	.71	.82	.78	.53
ACRF	1.0	.39	.30	.53	.61	.70	.79	.79	.84	.73	.88	.72	.69
AP	1.0	.49	.57	.73	.85	.90	.92	.92	.91	.87	.79	.67	.55
APIM	1.0	.49	.57	.73	.85	.90	.92	.92	.91	.87	.79	.67	.55
APUN	1.0	.49	.57	.73	.85	.90	.92	.92	.91	.87	.79	.67	.55
AM	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
AMCT	1.0	.63	.66	.68	.7	.71	.71	.71	.71	.7	.68	.67	.64
AMTF	1.0	.27	.42	.58	.7	.78	.81	.77	.71	.63	.54	.43	.3
AMSF	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
AMOR	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

AF	.76	.49	.57	.73	.85	.90	.92	.92	.91	.87	.79	.67	.55
AFFL	.75	.49	.57	.73	.85	.90	.92	.92	.91	.87	.79	.67	.55
AFDF	.80	.49	.57	.73	.85	.90	.92	.92	.91	.87	.79	.67	.55
AFFF	.75	.49	.57	.73	.85	.90	.92	.92	.91	.87	.79	.67	.55
AFHT	.75	.49	.57	.73	.85	.90	.92	.92	.91	.87	.79	.67	.55
AFPY	.75	.49	.57	.73	.85	.90	.92	.92	.91	.87	.79	.67	.55
R	1.0	.49	.57	.73	.85	.90	.92	.92	.91	.87	.79	.67	.55
RG	1.0	.49	.57	.73	.85	.90	.92	.92	.91	.87	.79	.67	.55
RS	1.0	.49	.57	.73	.85	.90	.92	.92	.91	.87	.79	.67	.55
RSPP	1.0	.49	.57	.73	.85	.90	.92	.92	.91	.87	.79	.67	.55
RSSB	1.0	.49	.57	.73	.85	.90	.92	.92	.91	.87	.79	.67	.55
F	1.0	.63	.73	.86	.98	1.09	1.13	1.11	1.06	.99	.90	.78	.66
FE	1.0	.63	.73	.86	.98	1.09	1.13	1.11	1.06	.99	.90	.78	.66
FEFP	1.0	.63	.73	.86	.98	1.09	1.13	1.11	1.06	.99	.90	.78	.66
FESP	1.0	.63	.73	.86	.98	1.09	1.13	1.11	1.06	.99	.90	.78	.66
FECP	1.0	.63	.73	.86	.98	1.09	1.13	1.11	1.06	.99	.90	.78	.66
FO	1.0	.73	.84	.99	1.14	1.24	1.30	1.28	1.22	1.14	1.05	.90	.75
FOAP	1.0	.73	.84	.99	1.14	1.24	1.30	1.28	1.22	1.14	1.05	.90	.75
FOBP	1.0	.73	.84	.99	1.14	1.24	1.30	1.28	1.22	1.14	1.05	.90	.75
FOPA	1.0	.73	.84	.99	1.14	1.24	1.30	1.28	1.22	1.14	1.05	.90	.75
FOSO	1.0	.73	.84	.99	1.14	1.24	1.30	1.28	1.22	1.14	1.05	.90	.75
FOOK	1.0	.73	.84	.99	1.14	1.24	1.30	1.28	1.22	1.14	1.05	.90	.75
FOCF	1.0	.73	.84	.99	1.14	1.24	1.30	1.28	1.22	1.14	1.05	.90	.75
FM	1.0	.73	.84	.99	1.14	1.24	1.30	1.28	1.22	1.14	1.05	.90	.75
FMTW	1.0	.73	.84	.99	1.14	1.24	1.30	1.28	1.22	1.14	1.05	.90	.75
FMCM	1.0	.73	.84	.99	1.14	1.24	1.30	1.28	1.22	1.14	1.05	.90	.75
FMCO	1.0	.73	.84	.99	1.14	1.24	1.30	1.28	1.22	1.14	1.05	.90	.75
FMPM	1.0	.73	.84	.99	1.14	1.24	1.30	1.28	1.22	1.14	1.05	.90	.75
FMPO	1.0	.73	.84	.99	1.14	1.24	1.30	1.28	1.22	1.14	1.05	.90	.75
FMTH	1.0	.73	.84	.99	1.14	1.24	1.30	1.28	1.22	1.14	1.05	.90	.75
FMOF	1.0	.73	.84	.99	1.14	1.24	1.30	1.28	1.22	1.14	1.05	.90	.75

FMCD	1.0	.73	.84	.99	1.14	1.24	1.30	1.28	1.22	1.14	1.05	.90	.75
FMPC	1.0	.73	.84	.99	1.14	1.24	1.30	1.28	1.22	1.14	1.05	.90	.75
W	1.0	.73	.84	.99	1.14	1.24	1.30	1.28	1.22	1.14	1.05	.90	.75
WF	1.0	.73	.84	.99	1.14	1.24	1.30	1.28	1.22	1.14	1.05	.90	.75
WFCM	1.0	.73	.84	.99	1.14	1.24	1.30	1.28	1.22	1.14	1.05	.90	.75
WFCY	1.0	.73	.84	.99	1.14	1.24	1.30	1.28	1.22	1.14	1.05	.90	.75
WFWL	1.0	.73	.84	.99	1.14	1.24	1.30	1.28	1.22	1.14	1.05	.90	.75
WFME	1.0	.73	.84	.99	1.14	1.24	1.30	1.28	1.22	1.14	1.05	.90	.75
WFSB	1.0	.73	.84	.99	1.14	1.24	1.30	1.28	1.22	1.14	1.05	.90	.75
WFMX	1.0	.73	.84	.99	1.14	1.24	1.30	1.28	1.22	1.14	1.05	.90	.75
WN	1.0	.49	.57	.73	.85	.90	.92	.92	.91	.87	.79	.67	.55
WNSG	1.0	.49	.57	.73	.85	.90	.92	.92	.91	.87	.79	.67	.55
WNCT	1.0	.49	.57	.73	.85	.90	.92	.92	.91	.87	.79	.67	.55
WNBR	1.0	.49	.57	.73	.85	.90	.92	.92	.91	.87	.79	.67	.55
WNWC	1.0	.49	.57	.73	.85	.90	.92	.92	.91	.87	.79	.67	.55
WNAG	1.0	.49	.57	.73	.85	.90	.92	.92	.91	.87	.79	.67	.55
WNWL	1.0	.49	.57	.73	.85	.90	.92	.92	.91	.87	.79	.67	.55
WS	1.0	.73	.84	.99	1.14	1.24	1.30	1.28	1.22	1.14	1.05	.90	.75
WSRM	1.0	.73	.84	.99	1.14	1.24	1.30	1.28	1.22	1.14	1.05	.90	.75
WSBW	1.0	.73	.84	.99	1.14	1.24	1.30	1.28	1.22	1.14	1.05	.90	.75
WM	1.0	.73	.84	.99	1.14	1.24	1.30	1.28	1.22	1.14	1.05	.90	.75
WX	1.0	.73	.84	.99	1.14	1.24	1.30	1.28	1.22	1.14	1.05	.90	.75
WXPP	1.0	.73	.84	.99	1.14	1.24	1.30	1.28	1.22	1.14	1.05	.90	.75
WXCP	1.0	.73	.84	.99	1.14	1.24	1.30	1.28	1.22	1.14	1.05	.90	.75
WXHM	1.0	.73	.84	.99	1.14	1.24	1.30	1.28	1.22	1.14	1.05	.90	.75
H	1.0	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
B	.50	.49	.57	.73	.85	.90	.92	.92	.91	.87	.79	.67	.55

TABLE D-4.
Coefficients used in Recharge Preprocessing

Land Use	Ki	Ks	Ka
U	.75	.10	.10
UR	.70	.10	.10
URSL	.80	.10	.10
URSM	.75	.10	.10
URSH	.70	.10	.10
URMF	.65	.10	.10
URMH	.60	.10	.10
UC	.50	.30	.10
UCPL	.50	.30	.10
UCSC	.50	.30	.10
UCSS	.50	.30	.10
UCCE	.60	.20	.10
UCMC	.50	.20	.10
UCHM	.50	.20	.10
UI	.50	.30	.10
UIJK	.50	.30	.10
UILT	.50	.20	.10
UIHV	.50	.30	.10
US	.50	.20	.10
USED	.60	.20	.10
USMD	.50	.30	.10
USRL	.50	.20	.10
USMF	.50	.20	.10
USCF	.50	.20	.10
USGF	.50	.20	.10
USSS	.50	.20	.10
UT	.60	.20	.10
UTAP	.60	.20	.10

UTAG	.70	.10	.10
UTRR	.60	.10	.10
UTPF	.60	.20	.10
UTEP	.60	.10	.10
UTTL	.60	.10	.10
UTHW	.60	.10	.10
UTWS	.60	.10	.10
UTSP	.60	.20	.10
UTSW	.60	.10	.10
UTRS	.60	.10	.10
UTOG	.60	.20	.10
UO	.98	.10	.10
UORC	.90	.10	.10
UOGC	.75	.10	.10
UOPK	.90	.10	.10
UOCM	.90	.10	.10
UORV	.80	.20	.10
UOUD	.98	.10	.10
UOUN	.75	.10	.10
A	.80	.10	.10
AC	.95	.10	.10
ACSC	.83	.10	.10
ACTC	.95	.10	.10
ACRF	.86	.10	.10
AP	.83	.10	.10
APIM	.83	.10	.10
APUN	.83	.10	.10
AM	.85	.10	.10
AMCT	.85	.10	.10
AMTF	.85	.10	.10
AMSF	.90	.10	.10

AMOR	.70	.10	.10
AF	.90	.10	.10
AFFL	.90	.10	.10
AFDF	.90	.10	.10
AFFF	.90	.10	.10
AFHT	.90	.10	.10
AFPY	.90	.10	.10
R	.75	.10	.10
RG	1.00	.10	.10
RS	.80	.10	.10
RSPP	.75	.10	.10
RSSB	.80	.10	.10
F	.85	.10	.10
FE	.85	.10	.10
FEPF	.85	.10	.10
FESP	.85	.10	.10
FECF	.85	.10	.10
FO	.85	.10	.10
FOAP	.85	.10	.10
FOBP	.85	.10	.10
FOPA	.85	.10	.10
FOSO	.85	.10	.10
FOOK	.85	.10	.10
FOCF	.85	.10	.10
FM	.85	.10	.10
FMTW	.85	.10	.10
FMCM	.85	.10	.10
FMCO	.85	.10	.10
FMPM	.85	.10	.10
FMPO	.85	.10	.10
FMTH	.85	.10	.10

FMOF	.85	.10	.10
FMCD	.85	.10	.10
FMPC	.85	.10	.10
W	.90	.10	.10
WF	.85	.10	.10
WFCM	.85	.10	.10
WFCY	.85	.10	.10
WFWL	.85	.10	.10
WFME	.87	.10	.10
WFSB	.80	.10	.10
WFMX	.80	.10	.10
WN	.90	.10	.10
WNSG	.90	.10	.10
WNCT	.90	.10	.10
WNBR	.90	.10	.10
WNWC	.90	.10	.10
WNAG	.90	.10	.10
WNWL	.90	.10	.10
WS	.85	.10	.10
WSRM	.85	.10	.10
WSBW	.85	.10	.10
WM	.90	.10	.10
WX	.90	.10	.10
WXPP	.90	.10	.10
WXCP	.90	.10	.10
WXHM	.90	.10	.10
H	1.00	.10	.10

APPENDIX E

EVAPOTRANSPIRATION PACKAGE

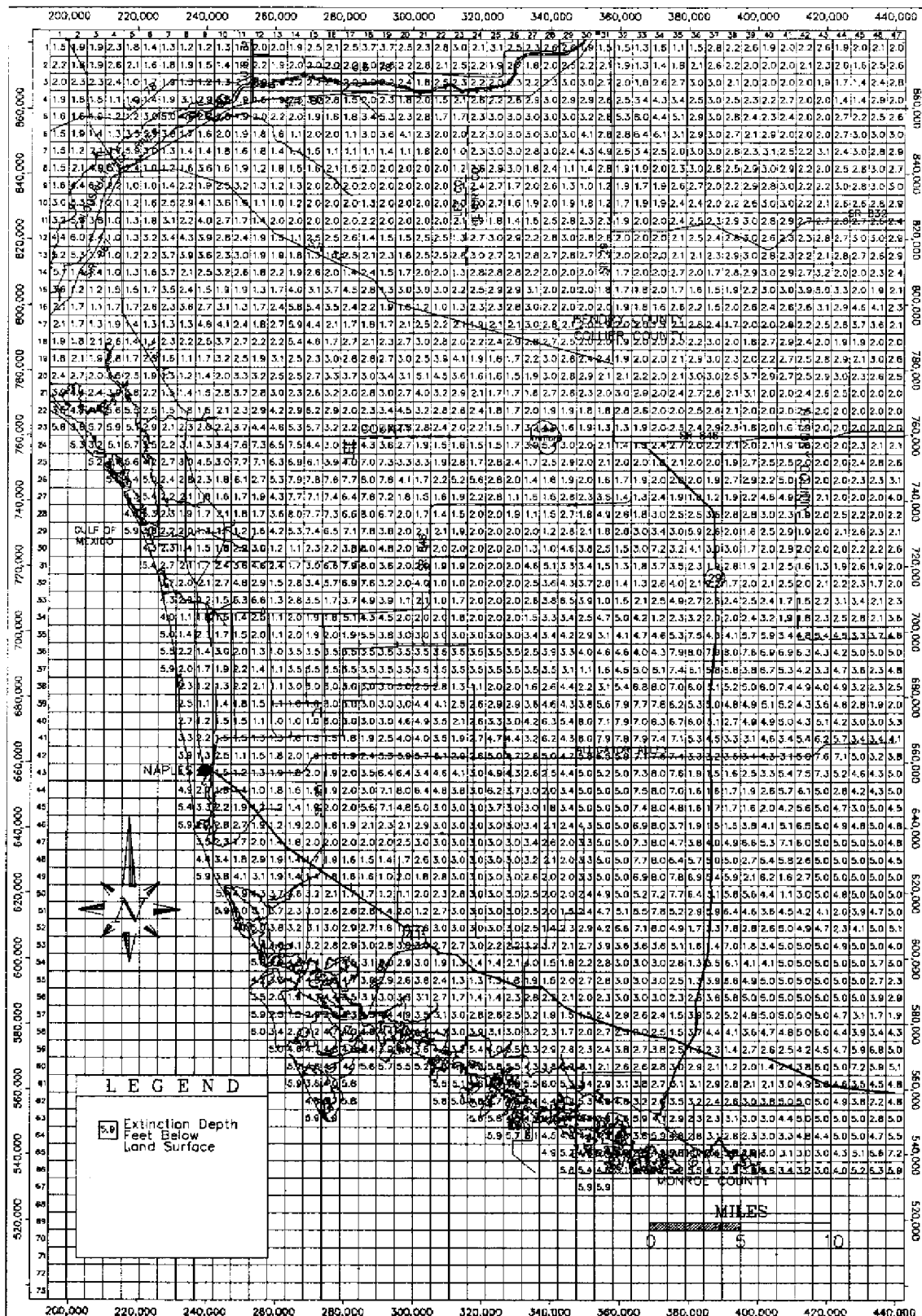
INPUT DATA

LIST OF FIGURES - APPENDIX E

Figure		Page
E-1	Extinction Depths Per Model Cell	147
E-2	Evapotranspiration Surface Per Model Cell	148
E-3	Steady-State Maximum Evapotranspiration Rates	149

LIST OF TABLES - APPENDIX E

Table		Page
E-1	SFWMD Land Use and Land Cover Classification Code	150
E-2	Extinction Depths	154



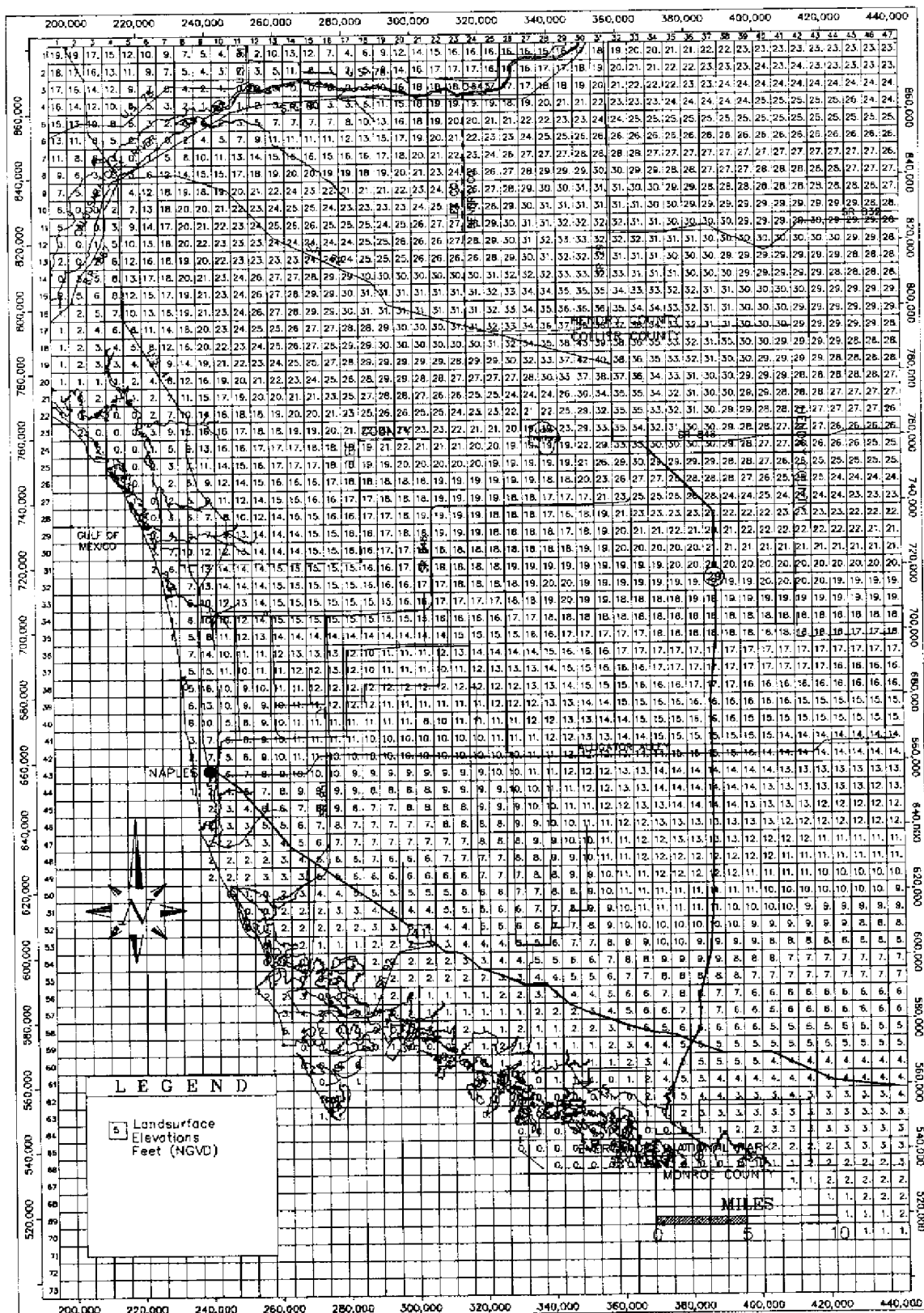


FIGURE E-2. Evapotranspiration Surface Per Model Cell

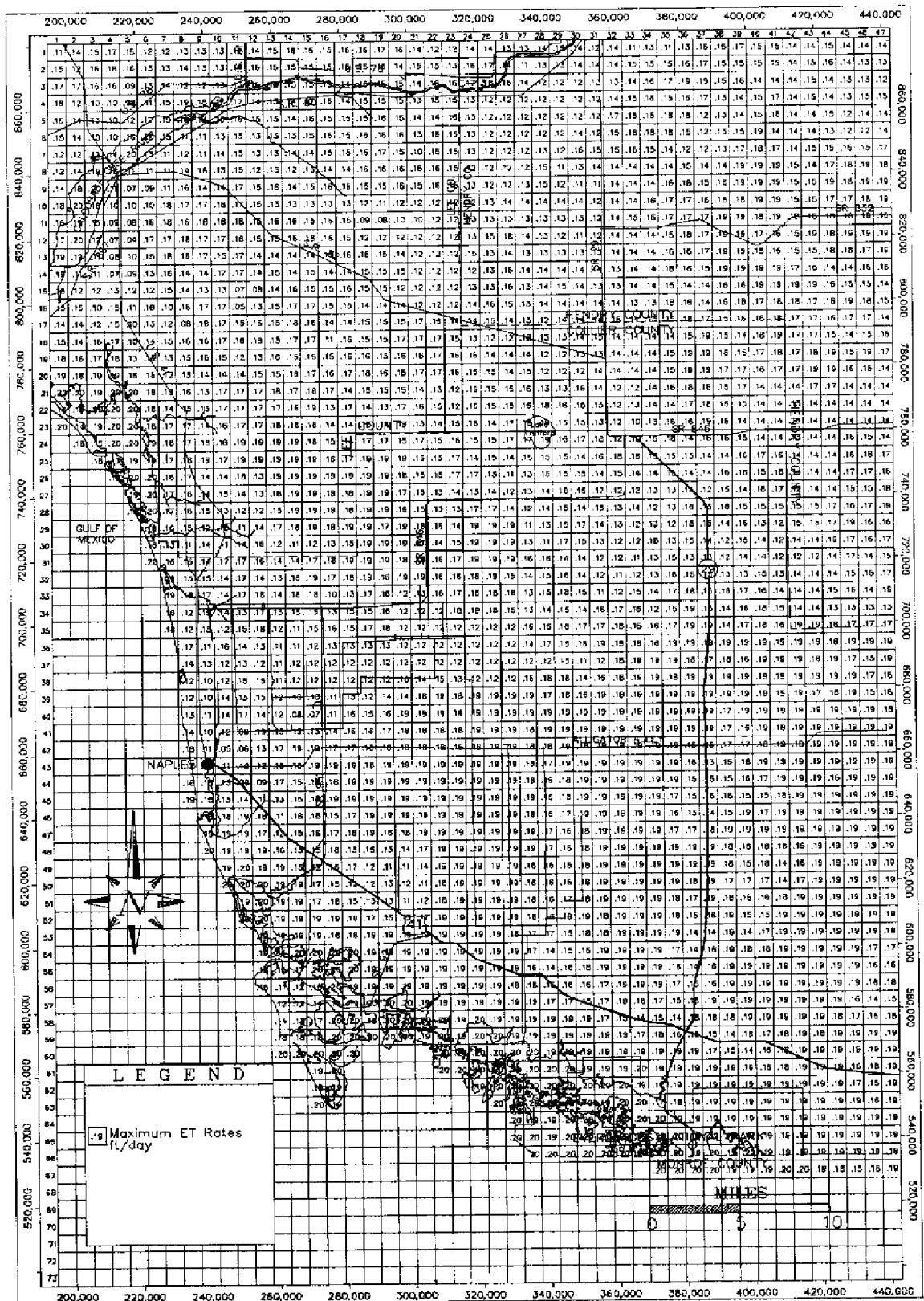


FIGURE E-3. Steady-State Maximum Evapotranspiration Rates

TABLE E-1: S.F.W.M.D. LAND USE AND LAND COVER CLASSIFICATION CODE

LEVEL I LEVEL II LEVEL III

(U) Urban and built-up land

(UR) Residential

(URSL) Single-family, Low Density (under 2 D.U./gross acre)
 (URSM) Single-family, Medium Density (2 to 5 D.U./gross acre)
 (URSH) Single-family, High Density (over 5 D.U./gross acre)
 (URMF) Multi-family building
 (URMH) Mobile homes

(UC) Commercial and Services

(UCPL) Parking lot
 (UCSC) Shopping center
 (UCSS) Sales and services
 (UCCE) Cultural and Entertainment
 (UCMC) Marine commercial (Marinas)
 (UCHM) Hotel-Motel

(UI) Industrial

(UIJK) Junkyard
 (UILT) Other light industrial
 (UIHV) Other heavy industrial

(US) Institutional

(USED) Educational
 (USMD) Medical
 (USRL) Religious
 (USMF) Military
 (USCF) Correctional
 (USGF) Governmental (other than military or correctional)
 (USSS) Social services (Elks, Moose, Eagles)

(UT) Transportation

(UTAP) Airports
 (UTAG) Small grass airports
 (UTRR) Railroad yards and terminals
 (UTPF) Port facilities
 (UTEP) Electrical power facilities
 (UTTLL) Major transmission lines
 (UTHW) Major highway and rights-of-way
 (UTWS) Water supply plants
 (UTSP) Sewerage treatment plants
 (UTSW) Solid waste disposal

(UTRS) Antenna arrays
(UTOG) Oil and gas storage

(UO) Open and others

(UORC) Recreational facilities
(UOGC) Golf courses
(UOPK) Parks
(UOCM) Cemeteries
(UORV) Recreational vehicle parks
(UOUD) Open under development
(UOUN) Open and undeveloped within
urban area

(A) Agriculture

(AC) Cropland

(ACSC) Sugar cane
(ACTC) Truck crops
(ACRF) Rice fields

(AP) Pasture

(APIM) Improved pasture
(APUN) Unimproved pasture

(AM) Groves, Ornamentals, Nurseries, Tropical fruits

(AMCT) Citrus
(AMTF) Tropical fruits
(AMSF) Sod farms
(AMOR) Ornamentals

(AF) Confined feeding operations

(AFFL) Cattle feed lots
(AFDF) Dairy farms
(AFFF) Fish farms
(AFHT) Horse training and stables
(AFPY) Poultry

(R) Rangeland

(RG) Grassland

(RS) Scrub and brushland

(RSPP) Palmetto prairies
(RSSB) Brushland

(F) Forested uplands

(FE) Coniferous

- (FEFP)** Pine flatwoods
- (FESP)** Sand pine scrub
- (FECF)** Commercial forest (pine)

(FO) Non-coniferous

- (FOAP)** Australian pine
- (FOBP)** Brazilian pepper
- (FOPA)** Palms
- (FOSO)** Scrub oak
- (FOOK)** Oak
- (FOCF)** Commercial forest

(FM) Mixed forested

- (FM'TW)** Temperate hardwoods
- (FMCM)** Cabbage palms/Melaleuca
- (FMCO)** Cabbage palms/Oaks
- (FM'PM)** Pine/Melaleuca
- (FMPO)** Pine/Oak
- (FMTH)** Tropical hammocks
- (FMOF)** Old fields forested
- (FMCD)** Coastal dunes
- (FMPC)** Pine/Cabbage palms

(W) Wetlands

(WF) Forested fresh

- (WFCM)** Cypress/Melaleuca
- (WFCY)** Cypress
- (WFWL)** Willow
- (WFME)** Melaleuca
- (WFSB)** Scrub and brushland
- (WFMX)** Mixed forested

(WN) Non-forested fresh

- (WNSG)** Sawgrass
- (WNCT)** Cattail
- (WNB'R)** Bullrush
- (WNWC)** Wire cordgrass
- (WNAG)** Mixed aquatic grass
- (WNWL)** Sloughs

(WS) Forested salt

- (WSRM)** Red mangrove
- (WSBW)** Black and White mangrove

(WM) Non-forested salt

(WX) Mixed forested and non-forested fresh

(WXPP) Pine and wet prairies

(WXCP) Cypress domes and wet prairies

(WXHM) Hardwood marsh

(H) Water

(B) Barren land

(BB) Beaches

(BP) Extractive

(strip mines, quarries, and
gravel pits)

(BS) Spoil areas

(BL) Levees

* Documentation of major codes from "LAND USE, COVER AND FORMS CLASSIFICATION SYSTEM, A TECHNICAL MANUAL", Department of Transportation, State Topographic Office Remote Sensing Center, Kuyper, Becker and Shopmyer, February 1981

TABLE E-2:
Extinction Depths Used in ET Preprocessing

Land Use Code	Extinction Depth (feet)	Land Use Code	Extinction Depth (feet)	Land Use Code	Extinction Depth (feet)
U	1.0	UOGC	1.0	POCF	2.0
UR	1.0	UOPK	1.25	FM	2.40
URSL	1.0	UOCM	1.0	FMTW	5.0
URSM	1.0	UORV	1.25	FMCM	1.5
URSH	1.0	UOUD	1.0	FMCO	1.5
URMF	1.0	UOUN	1.25	FMPM	2.0
URMH	1.0	A	1.4	FMPO	3.0
UC	1.0	AC	1.65	FMTH	1.5
UCPL	1.0	ACSC	3.0	FMOF	2.0
UCSC	1.0	ACTC	1.0	FMCD	3.0
UCSS	1.0	ACRF	1.0	FMPC	2.0
UCGE	1.0	AP	2.5	W	2.25
UCMC	1.0	APIM	2.5	WF	3.35
UCHM	1.0	APUN	2.5	WFCM	5.0
UI	1.0	AM	2.25	WFCY	6.0
UIJK	1.0	AMCT	3.0	WFWL	1.0
UILT	1.0	AMTF	3.0	WFME	1.5
UIHV	1.0	AMSF	1.25	WFSB	1.5
US	1.0	AMOR	1.5	WFMX	2.5
USED	1.0	AF	1.0	WN	1.5
USMD	1.0	AFFL	1.0	WNSG	2.5
USRL	1.0	AFFD	1.0	WNCT	2.5
USMF	1.0	AFFF	1.0	WNBR	1.0
USCF	1.0	AFHT	1.0	WNWC	1.0
USGF	1.0	AFPY	1.0	WNAG	1.0
USSS	1.0	R	2.0	WNWL	1.0
UT	1.0	RG	2.0	WS	3.0
UTAP	1.0	RS	2.0	WSRM	3.0
UTAG	1.0	RSPP	2.0	WSBW	3.0
UTRR	1.0	RSSB	2.0	WM	1.25
UTPF	1.0	F	2.30	WX	4.0
UTEP	1.0	FE	2.65	WXPP	2.5
UTTL	1.0	FEPF	2.0	WXCP	4.5
UTHW	1.0	FESP	5.0	WXHM	4.5
UTWS	1.0	FECF	1.0	H	6.0
UTSP	1.0	FO	2.0	B	.50
UTSW	1.0	FOAP	1.0		
UTRS	1.0	FOBP	1.0		
UTOG	1.0	FOPA	1.5		
UO	1.10	FOSO	1.5		
UORC	1.0	FOOK	5.0		

APPENDIX F

WATER USE DATA

INTRODUCTION

Appendix F contains information on individual water use permits issued by the Water Use Division, Regulation Department of the South Florida Water Management District. This information was used to compile the agricultural and landscape irrigation withdrawal file used in the model.

The information is subdivided into three separate spreadsheets and contains water use permits issued through January 1990. The first spreadsheet contains information on the individual water use permits for agricultural and landscape water use within Collier County. The other two spreadsheets contain agricultural and landscape irrigation water use for the six to ten mile buffer zone within adjacent Lee and Hendry counties. A legend for these spreadsheets may be found on the following page.

AN.ALL. = Annual Permitted Allocation
 ALL.UNT. = Annual Allocation Units
 01 = MGD
 02 = MGH
 03 = MGY
 04 = AC-FT
 MAXMO = Maximum Monthly Permitted Allocation
 01 = MGD
 02 = MGH
 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 = Sugar 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 = KISSINMEE
 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 = TAMIAAMI 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

TABLE 1. IRRIGATED - Existing Water Use - Permit Information and "Table 2 - Forecasted Agricultural Demand for Each Permit.")

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

161

1100024-3	190 01	8.00	02	100	60	02	650	353732	773903	GW	01
1100024-4	190 03	8.00	02	100	60	02	500	356805	773723	GW	01
1100024-5	190 01	6.00	02	97	60	55	150	355995	773402	GW	01
1100024-6	190 01	6.00	02	93	60	55	150	354866	773899	GW	01
1100024-7	190 02	10.00	02	100	03	700	700	354353	774676	GW	01
1100024-8	190 02	10.00	02	100	03	700	700	354301	775874	GW	01
1100024-9	190 02	6.00	02	100	03	150	150	353039	775153	GW	01
1100024-10	190 02	6.00	02	100	03	150	150	353019	773302	GW	01
1100027	4.34	15.8	02	11	1/78	AG	1	E. J. CURRY			
1100027-1	204 01	6.00	02	43	24	03	1000	309795	739149	GW	01
1100030	50.73	21.87	02	11	10/88	GLP	2	HOLE-IN-THE-WALL-GOLF-CLUB			
1100030-1	217 01	8.00	02	65	60	20	520	240946	676453	GW	03
1100030-1A	217 01	3.00	02	65	60	20	104	240492	675348	GW	03
1100032	49.90	6.00	02	11	1/79	AG	3	THE PINE CO.			
1100032-1	202 04	6.00	02	600		01	600	246421	702054	GW	01
1100032-2	202 04	6.00	02	600		01	600	246346	704008	GW	01
1100032-3	202 04	6.00	02	600		01	600	244369	704030	GW	01
1100033	1050.00	632	02	11	5/78	AG	13	WILFORD J. PIPER			
1100033-1	203 01	6.00	02	90	03	250	250	284651	710858	GW	03
1100033-2	203 01	6.00	02	90	03	250	250	285713	711181	GW	03
1100033-3	203 01	6.00	02	90	03	70	70	289589	712379	GW	03
1100033-4	203 03	6.00	02	90	01	150	150	289588	716271	GW	03
1100033-5	203 03	6.00	02	90	03	150	150	294855	714926	GW	03
1100033-6	203 03	6.00	02	90	03	150	150	291532	710107	GW	03
1100033-7	203 01	6.00	02	90	03	70	70	290882	708753	GW	03
1100033-8	203 03	6.00	02	90	03	150	150	292248	707843	GW	03
1100033-9	203 03	6.00	02	90	03	150	150	279734	710806	GW	03
1100033-10	203 01	6.00	02	90	03	150	150	276512	710033	GW	03
1100033-11	203 03	6.00	02	90	03	150	150	280360	713652	GW	03
1100033-12	203 03	6.00	02	90	03	150	150	280326	714985	GW	03
1100033-13	203 03	6.00	02	90	03	150	150	282261	713690	GW	03
1100034	84.72	8.00	02	11	11/78	AG	7	JOHN E. PRICE, JR.			
1100034-1	206 01	8.00	02	1200		03	1200	392806	721115	GW	03
1100034-2	206 01	8.00	02	1200		03	1200	394899	721149	GW	03
1100034-3	206 01	8.00	02	1200		03	1200	391859	719914	GW	03
1100034-4	206 01	8.00	02	1200		03	1200	393069	719772	GW	03
1100034-5	206 01	8.00	02	1200		03	1200	394404	719770	GW	03
1100034-6	206 01	8.00	02	1200		03	1200	395021	718815	GW	03
1100034-7	206 01	8.00	02	1200		03	1200	379078	735748	GW	03
1100035	344.68	98.91	02	11	1/89	AG	19	JOHN E. PRICE, JR.			
1100035-11	206 01	4.00	02	100		03	400	405012	709836	GW	03
1100035	206 03	6.00	02	100		03	600	393716	710624	GW	03
1100035	206 01	6.00	02	100		03	600	394763	710615	GW	03
1100035	206 01	6.00	02	100		03	600	397601	713205	GW	03
1100035	206 01	6.00	02	100		03	600	399634	713269	GW	03
1100035	206 01	6.00	02	100		03	600	387075	710046	GW	03
1100035	206 01	6.00	02	100		03	600	386944	708086	GW	03
1100035	206 01	8.00	02	100		03	1200	389324	711069	GW	03

61 0.8 1 20 0.50

15 0.4 1 120 0.75

61 0.4 1 120 0.50

20 0.8 1 3480 0.50
61 0.8 1 1000 0.50

61 0.8 26 240 0.50

61 3.6 26 450 0.50
13 3.6 26 175 0.50

1100035	206 01	0.00 02	100	1200	390392	709977	GW	03
1100035	206 01	8.00 02	100	1200	390547	711118	GW	03
1100035	206 03	8.00 02	100	1200	390042	715673	GW	03
1100035	206 03	8.00 02	100	1200	402545	699368	GW	03
1100035	206 03	8.00 02	100	1200	397737	700809	GW	03
1100035	206 03	8.00 02	100	1200	399927	701243	GW	03
1100035	206 03	8.00 02	100	1200	400360	698685	GW	03
1100035	206 03	8.00 02	100	1200	398111	698518	GW	03
1100035	206 01	12.00 02	100	1200	398946	711411	GW	03
1100035	206 01	12.00 02	100	1200	399689	712155	GW	03
1100035	206 01	12.00 02	100	1200	397378	698547	GW	03
1100036	136.52	03	11 5/78	AG	DAVID C BROWN			
1100036	172 01	8.00 02	102	350	347703	789943	GW	03
1100036-7	172 01	8.00 02	102	350	349291	789967	GW	03
1100036-8	172 01	8.00 02	102	350	350899	790007	GW	03
1100036-9	172 01	8.00 02	102	350	351425	788503	GW	03
1100036-10	172 01	8.00 02	102	350	348553	785891	GW	03
1100036-11	190 01	8.00 02	102	350	350429	786130	GW	03
1100036-2	190 01	8.00 02	102	350	351189	786697	GW	03
1100036-3	190 01	8.00 02	102	350	349720	786605	GW	03
1100036-4	190 01	8.00 02	102	350	347523	786569	GW	03
1100036-5	190 01	8.00 02	102	350	347666	787318	GW	03
1100036-6	190 01	8.00 02	102	350	347489	787687	GW	04
1100036-11	190 02	8.00 02	200	350				
1100037	51.80	03	11 5/78	AG	H. I. H. GROVES			
1100037	224 01	8.00 02	83	800 N	526200	691470	GW	03
1100037-1	224 01	8.00 02	83	800 N	526200	691470	GW	03
1100037-2	224 01	8.00 02	83	800 N	526200	691470	GW	03
1100037-3	224 01	8.00 02	83	800 N	526200	691470	GW	03
1100037-4	224 02	8.00 02	100	800 N	526200	691470	GW	03
1100037-5	224 02	8.00 02	100	800 N	526200	691470	GW	03
1100039	545.54	03	11	AG	3 MULE DEN QUARRY CORP.			
1100039-SW1	203 03	68.10	02	11	276591	706002	SW	01
1100039-SW2	203 01			1500	275408	706137	SW	01
1100039-SW3	203 03			1500	274392	705999	SW	01
1100040	199.00	03	11 1/82	AG	ISABEL COLLIER READ			
1100040-4-1	188 01	156	02	8	295185	759024	GW	01
1100040-4-2	189 01	6.00 02	39	600	297166	759315	GW	01
1100040-4-3	189 01	6.00 02	55	600	299208	758133	GW	01
1100040-4-4	189 01	6.00 02	36	600	299636	758669	GW	01
1100040-4-5	189 01	6.00 02	52	600	299444	757683	GW	01
1100040-4-6	188 01	6.00 02	38	600	294780	754185	GW	01
1100040-4-7	189 02	12.00 02	100	1400	294720	754350	GW	03
1100040-4-8	189 02	12.00 02	100	1400	295450	759612	GW	03
1100042	03	200.27	02	37	COLLIER COMPANY - GROVE DIVISION			
1100042	206 01	8.00 02	80	1000 N	409274	732985	GW	01
1100042-1	206 01	8.00 02	80	1000 N	408556	732966	GW	01
1100042-2	206 01	8.00 02	80	1000 N	407843	732999	GW	01
1100042-3	206 01	8.00 02	290	400 N	408400	733050	GW	04
1100042-4	206 01	16.00 02	90	1500 N	409600	732000	GW	01
1100042-5	206 01	16.00 02	90	1500 N				
13	0.8	26	365	0.85				
15	0.8	26	253	0.50				
20	0.4	1	280	0.50				
20	0.4	1	480	0.50				
12	0.8	26	140	0.75				
13	0.8	26	1080	0.75				

165

PUMP #1-4 ARE @ PUMP STATION #1
PUMPS #5-7 ARE @ PUMP STATION #2

1100058-3	202 01	3.00 02	80	78	03	200 03	245410	711796	GW	03	15	0.4	1	107 0.50
1100058-4	202 01	8.00 02	85	65	03	600 03	242716	711234	GW	03				
1100058-SW1	202 01				03	100	245660	712167	SW	01				
1100058-SW2	202 01				03	400	242841	711325	SW	01				
1100058-SW3	202 01				03	500	242841	711330	SW	01				
1100058-SW4	202 01				03	600	242841	711335	SW	01				
1100058-SW5	202 01				03	500	242841	711340	SW	01				
1100058-SW6	202 01				03	500	242841	711345	SW	01				
1100058-SW7	202 01				03	150	242841	711350	SW	01				
1100063	23.70	29.3	02	11 9/78	GLF BOTH	5	NAPLES GOLF AND BEACH CLUB							
1100063-1	217 01	4.00 02	80	78	03	750	236642	664269	GW	03				
1100063-2	217 01	6.00 02	80	78	03	750	236838	664494	GW	03				
1100063-3	217 01	6.00 02	80	78	03	750	236842	664510	GW	03				
1100063-4	217 01	6.00 02	80	78	03	750	236825	664605	GW	03				
1100063-5	217 01	8.00 02	80	78	03	750	236801	664809	GW	03				
1100063-SW1	217 01	8.00 02	80	78	03	1200	236981	664512	GW	03				
1100064	25.90	31.50	02	11 9/78	GLF BOTH	3	THE COUNTRY CLUB OF NAPLES							
1100064-1	217 01	8.00 02	81		03	1050	241722	680454	GW	03				
1100064-2	217 01	6.00 02	56		03	200	241919	680055	GW	03				
1100064-3	217 01	8.00 02	73		03	1050	242446	680508	GW	03				
1100067	3.26	5.70	02	11 9/78	AG	1	RAY SMITH							
1100067-1	233 01	6.00 02	40	40	03	600	261488	635560	GW	01	61	0.4	1	10 0.50
1100068	21.73			11 10/78	AG	3	CARROLL & RENEE ROLLINS							
1100068-1	190 01	6.00 02	240	190	03	250	352703	784959	GW	04				
1100068-5	190 01	8.00 02	65		03	350	354109	785019	GW	03	13	0.8	15	50 0.80
1100068-6	190 02	6.00 02			03	350	352623	787419	GW	03	13	0.8	15	50 0.50
1100069	116.00	173.0	02	11 10/78	AG	4	RAY SMITH							
1100069-1	218 01	8.00 02	140	40	03	1000	290842	673380	GW	03	60	0.4	1	200 0.50
1100069-2	218 01	8.00 02	140	40	03	1000	292642	674434	GW	03				
1100069-3	218 01	8.00 02	140	40	03	1000	292636	675042	GW	03				
1100069-4	218 01	8.00 02	140	40	03	1000	292674	675694	GW	03				
1100070	13.90	20.80	02	11 10/78	AG	2	MANATEE FRUIT CO.							
1100070-1	202 03	8.00 02			03	800	251972	703342	GW	03	60	0.4	1	24 0.50
1100070-2	202 01	8.00 02			03	800	252401	703408	GW	03				
1100071	135.00	181	02	11 11/78	AG	5	MANATEE FRUIT CO.							
1100071-1	202 01	10.00 02			03	1200	245952	697507	GW	03	60	0.4	1	233 0.50
1100071-2	202 01	8.00 02			03	1000	245060	697640	GW	03				
1100071-3	202 01	8.00 02			03	1000	242540	698862	GW	03				
1100071-4	217 01	8.00 02			03	1000	245665	695509	GW	03				
1100071-5	217 01	8.00 02			03	1000	244286	695098	GW	03				
1100072	20.60	7.58	02	11 10/78	AG	5	JAMES FRITCHIEY							
1100072-1	233 01	8.00 02			03	1000	289437	623589	GW	01	61	0.4	1	30 0.50
1100072-2	233 02	8.00 02			03	1000	290332	622855	GW	01				
1100072-3	233 03	8.00 02			03	1000	289308	621859	GW	01				
1100072-4	233 03	8.00 02			03	1000	289501	624588	GW	01				
1100072-5	233 03	8.00 02			03	1000	288145	624573	GW	01				

1100073	20.00	03	11.40	02	30	11/78 REC	1	G. CLIFFORD SMITH	15	0.4	1	45	0.50
1100073-1		233 02	6.00	02	30	GW	600	272193 626065	61	0.8	1	210	0.50
1100074	87.30	02	163	02	11	7/80 AG	9	MELVIN CECIL, HALD					
1100074-1		202 03	8.00	02	30	BOTH	800	253654 714917	01				
1100074-2		202 03	8.00	02	30	03	800	253837 714719	01				
1100074-3		203 03	8.00	02	30	03	800	255006 714979	01				
1100074-4		203 04	10.00	02	30	03	800	255350 714745	01				
1100074-5		203 01	8.00	02	30	03	800	255989 716151	01				
1100074-6		203 01	8.00	02	30	03	800	255958 715472	01				
1100074-7		203 01	8.00	02	30	03	800	255927 714528	01				
1100074-8		203 01	8.00	02	30	03	800	255749 713699	01				
1100074-9		203 03	8.00	02	30	03	800	258176 713603	01				
1100074-SW1		203 02	8.00	02	30	03	6000	256134 712036	01				
1100076	1337.42	02	8.87	02	11	AG	40	5 SIX L'S FARM	61	0.4	1	400	0.50
1100076-8-1		233 03	8.00	02	65	03	500	293798 620273	03				
1100076-8-2		233 01	8.00	02	65	01	500	293749 619133	03				
1100076-8-3		233 03	8.00	02	45	03	500	293933 622935	01				
1100076-8-4		233 03	8.00	02	85	03	500	293829 623598	03				
1100076-8-5		233 01	8.00	02	65	01	500	294403 624195	03				
1100076-8-6		234 01	8.00	02	60	01	500	295575 624116	03				
1100076-8-7		234 01	16.00	02	65	01	1400	295179 621465	03				
1100076-9-1		234 03	8.00	02	60	03	500	296452 623964	03				
1100076-9-2		234 03	8.00	02	65	03	500	298275 624076	03				
1100076-9-3		234 01	16.00	02	45	01	1400	297073 623016	01				
1100076-9-4		234 01	16.00	02	43	01	1400	298283 623035	01				
1100076-9-5		234 03	8.00	02	80	03	500	299516 622819	03				
1100076-9-6		234 03	8.00	02	85	03	500	300885 622294	03				
1100076-9-7		234 01	8.00	02	65	01	2000	299528 621087	03				
1100076-9-8		234 01	16.00	02	65	01	2000	297836 621650	03				
1100076-9-9		234 03	8.00	02	86	03	1400	297095 621641	03				
1100076-9-10		234 03	8.00	02	85	03	500	296161 621589	03				
1100076-9-11		234 03	8.00	02	45	01	500	297939 619373	01				
1100076-9-12		234 03	8.00	02	85	03	500	297985 619278	03				
1100076-15-1		233 01	8.00	02	85	03	500	301213 615657	03				
1100076-15-2		234 03	8.00	02	90	03	500	302488 614958	03				
1100076-15-3		234 01	10.00	02	95	01	500	303795 614948	03				
1100076-15-4		234 01	16.00	02	95	01	800	303190 616999	03				
1100076-15-5		234 01	16.00	02	95	01	800	295504 616991	01				
1100076-17-1		234 01	16.00	02	31	03	2000	295444 616134	01				
1100076-17-2		234 03	8.00	02	35	03	500	295545 615284	01				
1100076-17-3		234 01	8.00	02	50	03	500	295536 614058	01				
1100076-17-4		234 03	8.00	02	45	03	500	295472 613168	01				
1100076-20-1		234 01	8.00	02	42	03	500	295512 612195	01				
1100076-20-2		234 03	8.00	02	42	03	500	296363 612708	01				
1100076-21-1		234 03	8.00	02	42	03	500	296830 613038	01				
1100076-21-2		234 03	8.00	02	45	03	500	297723 613075	01				
1100076-21-3		234 03	8.00	02	40	03	500	298770 613150	01				
1100076-21-4		234 03	8.00	02	32	03	500	300445 613175	01				
1100076-21-5		234 03	8.00	02	60	03	500	300484 612867	01				
1100076-21-6		234 03	8.00	02	60	03	500	300776 612781	01				
1100076-21-7		234 01	8.00	02	55	01	500	300897 612784	01				
1100076-21-8		233 01	8.00	02	31	01	500	296085 608417	01				
1100076-21-9		234 03	8.00	02	50	03	500	298566 608619	01				
1100076-21-10		234 03	8.00	02	50	03	500						

1100076-22 2	234 01	16.00 02	95	42	01	2000	303613	611811	GW 03																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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1100084-1-5	205 01	8.00				375290	727639	GW	01
1100084-1-7	206 01	12.00				377223	724085	GW	01
1100084-1-9	206 01	8.00				377217	725652	GW	01
1100084 1-11	206 01	12.00				377548	727063	GW	01
1100084-3-1	205 01	12.00				366579	726042	GW	01
1100084-3-2	205 01	12.00				364746	726255	GW	01
1100084-3-3	205 01	12.00				365303	727549	GW	01
1100084-3-4	205 01	12.00				367257	728049	GW	01
1100084-10-1	205 01	12.00				365045	728697	GW	01
1100084-10-3	205 01	12.00				365185	723027	GW	01
1100084-10-5	205 01	12.00				367360	720677	GW	01
1100084-10-6	205 01	12.00				368121	723012	GW	01
1100084-11-1	205 01	12.00				370416	719964	GW	01
1100084-11-2	205 01	12.00				370505	721938	GW	01
1100084-11-3	205 01	12.00				372802	722204	GW	01
1100084-11-5	205 01	12.00				373410	720826	GW	01
1100084-12-1	205 01	12.00				375303	719956	GW	01
1100084-12-3	205 01	12.00				376454	721967	GW	01
1100084-12-5	205 01	12.00				377151	720737	GW	01
1100084-12-7	205 01	12.00				375880	722952	GW	01
1100084-13-2	206 01	12.00				377390	716011	GW	01
1100084-13-3	205 01	12.00				376188	716265	GW	01
1100084-13-4	205 01	8.00				374559	715807	GW	01
1100084-13-5	205 01	8.00				374902	718040	GW	01
1100084-13-6	206 01	8.00				378772	715412	GW	01
1100084-14-1	205 01	12.00				369557	717883	GW	01
1100084-14-3	205 01	12.00				372096	717782	GW	01
1100084-14-4	205 01	12.00				371420	715479	GW	01
1100084-14-5	205 01	12.00				372793	715342	GW	01
1100084-15-1	205 01	12.00				364561	714723	GW	01
1100084-15-3	205 01	12.00				367538	713646	GW	01
1100084-15-6	205 01	12.00				367650	715945	GW	01
1100084-15-7	205 01	12.00				366534	718055	GW	01
1100084-34-4	205 01	12.00				364699	733173	GW	01
1100084-34-5	205 01	12.00				365776	731892	GW	01
1100084-34-7	205 01	12.00				367361	731112	GW	01
1100084-34-8	205 01	12.00				368675	731124	GW	01
1100084-34-9	205 01	12.00				368295	733634	GW	01
1100084-34-2	205 01	12.00				365750	729677	GW	01
1100084-27	205 03	12.00	02	255		370232	738100	GW	04
1100084-41	205 03	12.00	02	120	220	372783	738063	GW	03
1100084-28	205 03	8.00	02	218	90	370260	736874	GW	03
1100084-42	205 03	8.00	02	340	173	372762	736685	GW	04
1100084-29	205 03	8.00	02	240	200	370088	735529	GW	04
1100084-43	205 02	8.00	02	319	190	372944	735730	GW	04
1100084-30	205 03	8.00	02	247	187	370056	732827	GW	04
1100084-44	205 02	8.00	02	319	199	373255	734290	GW	04
1100084-31	205 02	8.00	02	310	190	370056	732827	GW	04
1100084-45	205 03	12.00	02	160	140	373058	733042	GW	03
1100084-33	205 02	8.00	02	305	175	370067	729723	GW	04
1100084-47	205 02	8.00	02	215	120	373360	729503	GW	03
1100084-32	205 02	8.00	02	300	200	369991	731614	GW	04
1100084-46	205 02	8.00	02	300	200	373046	731211	GW	04
1100084-53	205 02	8.00	02	300	200	375726	733601	GW	04
1100084-63	206 02	8.00	02	300	200	377993	733337	GW	04
1100084-54	205 02	8.00	02	300	200	375676	731442	GW	04

1100084-64	206 02	8.00 02	300	200	02	800	377930	731705	GW	04
1100084-65	205 02	8.00 02	300	200	02	800	375728	729667	GW	04
1100084-65	206 02	8.00 02	300	200	02	800	377916	729749	GW	04
1100084-71	205 03	12.00 02	120	80	02	538	364753	732702	GW	03
1100084-14	205 03	12.00 02	120	60	02	580	367874	732088	GW	01
1100084-3	205 03	12.00 02	120	60	02	538	364757	729369	GW	01
1100084-16	205 03	12.00 02	120	80	02	580	368019	729490	GW	01
1100084-5	205 03	12.00 02	100	60	02	548	365130	726615	GW	01
1100084-18	205 03	12.00 02	120	80	02	647	367044	726935	GW	01
1100084-6	205 03	12.00 02	100	60	02	580	365106	725305	GW	01
1100084-19	205 03	12.00 02	100	80	02	494	367848	725557	GW	01
1100084-38	205 02	12.00 02	150	100	02	485	370444	716689	GW	03
1100084-62	205 02	12.00 02	150	100	02	485	375227	714630	GW	03
1100084-68	206 02	12.00 02	150	100	02	485	378445	724032	GW	03
1100084-40	205 02	12.00 02	150	100	02	485	370916	720432	GW	03
1100084-35	205 02	12.00 02	150	100	02	485	370234	720432	GW	03
1100084-73	206 02	12.00 02	150	100	02	509	378470	717668	GW	03
1100084-36	205 02	12.00 02	150	100	02	509	370091	718746	GW	03
1100084-20	205 02	12.00 02	150	100	02	530	367672	724208	GW	03
1100084-60	205 02	12.00 02	150	100	02	530	375160	720331	GW	03
1100084-71	206 02	12.00 02	150	100	02	384	378767	720081	GW	03
1100084-66	206 02	12.00 02	150	100	02	397	378090	728323	GW	03
1100084-72	206 02	12.00 02	150	100	02	432	377408	719063	GW	03
1100084-34	205 02	12.00 02	150	100	02	452	370237	722346	GW	03
1100084-37	205 02	12.00 02	150	100	02	452	370863	717800	GW	03
1100084-70	206 02	12.00 02	150	100	02	313	377303	721374	GW	03
1100084-48	205 02	12.00 02	150	100	02	331	373225	727991	GW	03
1100084-74	206 02	12.00 02	150	100	02	355	378367	716198	GW	03
1100084-17A	205 02	12.00 02	150	100	02	361	368027	728088	GW	03
1100084-17B	205 02	12.00 02	150	100	02	361	369350	728329	GW	03
1100084-7	205 02	12.00 02	100	60	02	591	365087	724119	GW	03
1100084-2	205 02	12.00 02	150	100	02	538	364866	730875	GW	03
1100084-75	206 02	12.00 02	150	100	02	538	378037	714189	GW	03
1100084-4	205 02	12.00 02	150	100	02	548	364837	727866	GW	03
1100084-50	205 02	12.00 02	150	100	02	562	372777	720994	GW	03
1100084-59	205 02	12.00 02	150	100	02	562	375732	722234	GW	03
1100084-58	205 02	12.00 02	150	100	02	562	375423	724175	GW	03
1100084-69	206 02	12.00 02	150	100	02	562	378618	722489	GW	03
1100084-9	205 02	12.00 02	150	100	02	562	364966	720458	GW	03
1100084-51	205 02	12.00 02	150	100	02	562	372921	718934	GW	03
1100084-12	205 02	12.00 02	150	100	02	562	365036	716051	GW	03
1100084-22	205 02	12.00 02	150	100	02	562	367939	720681	GW	03
1100084-10	205 02	12.00 02	150	100	02	562	365004	718872	GW	03
1100084-11	205 02	12.00 02	150	100	02	562	364937	717538	GW	03
1100084-24	205 02	12.00 02	150	100	02	562	367497	717567	GW	03
1100084-25	205 02	12.00 02	150	100	02	562	367557	716217	GW	03
1100084-23	205 02	12.00 02	150	100	02	562	367921	718939	GW	03
1100084-8	205 02	12.00 02	150	100	02	580	365120	722977	GW	03
1100084-21	205 02	12.00 02	150	100	02	580	367825	723074	GW	03
1100084-61	205 02	12.00 02	150	100	02	580	374353	716469	GW	03
1100084-15	205 02	12.00 02	150	100	02	580	367937	731189	GW	03
1100084-52	205 02	12.00 02	150	100	02	591	373243	714457	GW	03
1100084-67	206 02	12.00 02	150	100	02	591	378225	725691	GW	03
1100084-38	205 02	12.00 02	150	100	02	647	370444	716689	GW	03
1100084-49	205 02	12.00 02	150	100	02	647	372814	722636	GW	03
1100084-13	205 02	12.00 02	150	100	02	664	365122	714268	GW	03

1100084-26	205 02	12.00 02	150 100	02	664	367650	714313	GW 03			
1100084-57	205 02	12.00 02	150 100	02	664	375305	725926	GW 03			
1100084-56	205 02	12.00 02	150 100	02	674	375694	727995	GW 03			
1100085	32.90	03	34.60 02	11 12/78 AG	GW	3	COLLIER DEVELOPMENT CORP.		61	0.4	1 70 0.50
1100085-1	233 01	8.00 02	40		800	257910	635259	GW 01			
1100085-2	233 03	8.00 02	40		800	257316	635110	GW 01			
1100085-3	233 04	8.00 02	40		800	256557	635216	GW 01			
1100086	26.10	03	59.10 02	11 12/78 AG	GW	3	COLLIER DEVELOPMENT CORP.		61	0.4	1 75 0.50
1100086-24-1	232 01	9.00 02	26 19	01	800	253664	645777	GW 01			
1100086-24-2	232 01	8.00 02	23 20	01	800	251255	645722	GW 01			
1100086-24-3	232 01	8.00 02	25 18	01	800	250171	645722	GW 01			
1100087	7.60	03	30.30 02	11 12/78 AG	GW	1	COLLIER DEVELOP. CORP. (LANDMARK)		60	0.4	1 35 0.50
1100087-1	202 01	8.00		03	1000	241753	699952	GW 01			
1100088	15.20	03	21.6 02	11 12/78 AG	GW	1	WILLIAM LEINWEBER		13	0.8	1 70 0.50
1100088-4	190 01	6.00 02		02	500	351761	783790	GW 01			
1100089	78.60	03	29.10	11 5/83 AG	BOTH	3	MARGUERITE R. COLLIER, TRUST		61	0.8	1 175 0.75
1100089-1	202 01	8.00		03	800	238435	703228	GW 01			
1100089-2	202 01	8.00		03	800	238815	703222	GW 01			
1100089-3	202 01	8.00		03	800	230361	701354	GW 01			
1100089-SW1	202 01	8.00		01	600	230435	703228	SW 01			
1100090	209.00	03	252.0	11 12/78 AG	SW	8000	1 NPEV CORP (GULF COAST RAPIDS INC.)		60	0.4	1 320 0.50
1100090-SW1	233 01					284466	629540	SW 01 (4-8" WELLS NOT IN USE)			
1100091	15.22	03	6.0 02	11 12/78 AG	GW	1	R.A. BETHEA, JR.		13	0.8	15 70 0.50
1100091-3	190 01	6.0			500	350660	784110	GW 01			
1100092	700.50	03	467.0 02	11 4/83 AG	BOTH	6	EDITH COLLIER SPROUT, TRUST		61	0.4	1 600 0.50
1100092-1	217 03	8.00 02		03	800	250593	674516	GW 01			
1100092-2	217 04	8.00 02	60 40	03	800	249541	672450	GW 01			
1100092-3	217 04	8.00 02	80 52	03	800	250857	672508	GW 01			
1100092-4	217 03	8.00		03	800	250862	670132	GW 01			
1100092-5	217 03	8.00		03	800	248077	670435	GW 01			
1100092-6	217 03	8.00		03	800	248062	672443	GW 01			
1100092-SW1	217 01	18.00			10000	247587	667474	SW 01			
1100093	28.44	03	6.00 02	11 12/78 AG	GW	2	TONY ROSEBOUGH		13	0.8	15 131 0.50
1100093-1	190 01	6.00 02			500	348420	784663	GW 01			
1100093-2	190 01	6.00 02			500	349206	784487	GW 01			
1100094	2774.00	03	576.36 02	11 1/87 AG	BOTH	53	3 TURNER CORPORATION		13	1.5	15 2575 0.85
1100094-1	190 01	8.00 02	60 40		600	342000	783200	GW 01			
1100094-2	190 03	8.00 02	60 40		600	342100	783800	GW 01			
1100094-3	190 01	8.00 02	60 40		600	342150	784500	GW 01			
1100094-4	190 01	8.00 02	60 40		600	341600	785700	GW 01			
1100094-5	190 03	8.00 02	60 40		600	338000	786150	GW 01			
1100094-6	190 01	8.00 02	160 100		600	342150	785700	GW 03			
1100094-7	190 03	8.00 02	160 120		600	342150	785050	GW 03			
1100094-8	190 03	8.00 02	170 120		600	341532	786547	GW 03			
1100094-6A	190 01	8.00 02	260 140		600	342300	786200	GW 03			
1100094-7	190 03	8.00 02	60 40		600	343700	782400	GW 01			

1100094-B	190 01	8.00 02	80	50	600	343650	784550	GW	01
1100094-9	190 01	8.00 02	215	138	1000	344800	784550	GW	03
1100094-10	190 01	8.00 02	195	135	1000	344900	783500	GW	03
1100094-11	190 01	8.00 02	300	250	600	346250	782700	GW	04
1100094-3	190 01	8.00 02	60	40	600	347100	781100	GW	01
1100094-4	190 01	8.00 02	60	40	600	343600	779700	GW	01
1100094-5	190 03	8.00 02	60	40	600	342500	776600	GW	01
1100094-7	190 01	8.00 02	195	135	1000	343700	777400	GW	03
1100094-8	190 01	8.00 02	269	208	300	345700	777400	GW	04
1100094-9	190 01	12.00 02	60	40	600	344800	780200	GW	01
1100094-10	190 01	8.00 02	290	238	600	345950	780650	GW	04
1100094-15	190 01	8.00 02	275	168	600	343800	778300	GW	04
1100094-16	190 01	8.00 02	275	172	800	343900	777400	GW	04
1100094-1	190 01	8.00 02	60	40	600	339600	777700	GW	01
1100094-2	190 01	8.00 02	60	40	600	339600	780550	GW	01
1100094-3	190 01	10.00 02	60	40	900	341900	779150	GW	01
1100094-4	190 01	10.00 02	60	40	600	341900	780450	GW	01
1100094-5	190 01	8.00 02	60	40	600	342000	781500	GW	01
1100094-6	190 01	8.00 02	60	40	600	341950	777800	GW	01
1100094-7	190 01	8.00 02	60	40	600	341950	776900	GW	01
1100094-1	190 01	8.00 02	60	40	600	339650	772300	GW	01
1100094-2	190 01	8.00 02	60	40	600	340700	775400	GW	01
1100094-3	190 01	8.00 02	60	40	600	339600	776250	GW	01
1100094-4	190 01	8.00 02	236	174	1000	339050	775050	GW	04
1100094-5	190 01	8.00 02	185	180	1000	339700	773600	GW	04
1100094-6	190 01	12.00 02	235	167	2000	338100	773600	GW	04
1100094-1	190 01	8.00 02	60	40	600	342500	771700	GW	01
1100094-2	190 01	8.00 02	60	40	600	343100	772100	GW	01
1100094-3	190 01	8.00 02	60	40	600	346200	772550	GW	01
1100094-4	190 01	8.00 02	60	40	600	346100	775200	GW	01
1100094-5	190 01	8.00 02	60	40	600	343150	775500	GW	01
1100094-6	190 01	8.00 02	60	40	600	343150	776200	GW	01
1100094-1	190 01	8.00 02	60	40	600	342000	771000	GW	01
1100094-2	190 01	8.00 02	60	40	600	341500	770900	GW	01
1100094-17	190 01	8.00 02	275	172	800	343900	777400	GW	04
1100094-8	190 01	10.00 02	275	240	650	339600	776600	GW	04
1100094-9	190 01	10.00 02	270	235	650	339600	777800	GW	04
1100094-10	190 01	10.00 02	260	223	650	339600	779150	GW	04
1100094-11	190 01	10.00 02	260	220	650	339600	780650	GW	04
1100094-9	190 01	10.00 02	260	220	700	339600	781800	GW	04
1100094-10	190 02	10.00 02	260	220	600	339606	783299	GW	04
1100094-11	190 02	10.00 02	260	220	600	339469	784577	GW	04
1100094-12	190 02	10.00 02	260	220	600	339442	786029	GW	04
1100094-SW1	190 01	10.00 02	260	220	2500	338000	772900	SW	01
1100094-SW2	190 01	10.00 02	260	220	2500	338000	773200	SW	01
1100094-SW3	190 01	10.00 02	260	220	6000	338000	776150	SW	01
1100095	193.00	633.0	02	11	7/83	AG	BOTH	20	3 A. DUDA & SONS INC.
1100095-18-1	233 01	16.00 02	50	03	4000	285203	618661	GW	01
1100095-18-2	233 03	8.00 02	50	03	1000	285162	618258	GW	01
1100095-18-3	233 01	16.00 02	50	03	4000	286122	617991	GW	01
1100095-18-4	233 01	16.00 02	50	03	4000	287153	617262	GW	01
1100095-18-5	233 03	16.00 02	50	03	1000	286377	616596	GW	01
1100095-18-6	233 01	16.00 02	50	03	4000	287999	616076	GW	01
1100095-18-7	233 01	16.00 02	50	03	8000	288230	616058	SW	01
1100095-18-8	233 03	8.00 02	50	03	1000	288426	615371	GW	01

61 0.4 1 825 0.50

1100095-18-9	233 03	16.00 02	50	03	4000	289821	615326	SW	01										
1100095-19-1	233 03	8.00 02	50	03	1000	286228	613490	GW	01										
1100095-13-1	233 03	8.00 02	50	03	1000	280701	619128	GW	01										
1100095-13-2	233 01			03	8000	281277	619097	SW	01										
1100095-13-3	233 01	8.00 02	50	03	1000	282310	619192	GW	01										
1100095-13-4	233 01	8.00 02	50	03	1000	282468	619042	GW	01										
1100095-13-5	233 03	8.00 02	50	03	1000	282846	618538	GW	01										
1100095-13-6	233 03	8.00 02	50	03	1000	283416	618767	GW	01										
1100095-13-7	233 01	16.00 02	50	03	4000	283565	619121	GW	01										
1100095-13-8	233 01	16.00 02	50	03	4000	284729	618871	GW	01										
1100095-13-9	233 01			03	8000	283502	618113	SW	01										
1100095-13-10	233 01	8.00 02	50	03	1000	283796	616095	GW	01										
1100095-13-11	233 01	8.00 02	50	03	1000	281698	617520	GW	01										
1100095-13-12	233 01	8.00 02	50	03	1000	280918	616582	GW	01										
1100095-13-13	233 03	8.00 02	50	03	1000	280226	615624	GW	01										
1100096	51.73	7.29 02	11 10/88 REC	BOTH	1	4	PINEWOODS COMMONS AREA, INC.	15	0.4	1									
1100096-1	217 01	6.00 02	60	01	600	246645	678980	GW	03										
1100096-SW1	217 01			01	350	247219	678995	SW	01										
1100096-SW2	217 01			01	90	247641	679048	SW	01										
1100096-SW3	217 01			01	200	247659	678474	SW	01										
1100097	363.00	384.0 02	11 12/78 AG	BOTH	7	3 A. DUDA & SONS, INC.	61	3.6	1										
1100097-1	234 01	8.00 02	40	03	1000	301566	624131	GW	01										
1100097-5	234 03	8.00 02	40	03	1000	303621	622162	GW	01										
1100097-6	234 03	8.00 02	40	03	1000	303075	621488	GW	01										
1100097-7	234 03	8.00 02	40	03	1000	304281	621583	GW	01										
1100097-8	234 03	8.00 02	40	03	1000	306357	621697	GW	01										
1100097-9	234 03	16.00 02	40	03	4000	303126	618995	GW	01										
1100097-10	234 03	16.00 02	40	03	4000	303619	618916	GW	01										
1100097-11	234 03	8.00 02	40	03	400	306894	620448	GW	01										
1100097-SW2	234 01	20.00		03	8000	303011	624197	SW	01										
1100097-SW3	234 01	20.00		03	8000	304262	624173	SW	01										
1100097-SW4	234 01	20.00		03	8000	306739	624135	SW	01										
1100100		678.27 02	11 8/86 AG	GW	31	BARRON COLLIER	61	0.8	26										
1100100	191 01	02	21	02	700	406065	756853	GW	01										
1100100	191 01	02	54	02	700	407923	756670	GW	01										
1100100	191 01	02	60	02	700	408947	757586	GW	01										
1100100	191 01	02	64	02	700	408626	755766	GW	01										
1100100	191 01	02	62	02	700	403104	755757	GW	01										
1100100	191 01	02	18	02	700	396865	759428	GW	01										
1100100	193 01	02	30	02	700	392307	756289	GW	03										
1100100	191 01	02	26	02	700	383423	755531	GW	01										
1100100	191 01	02	26	02	700	383494	756881	GW	01										
1100100	191 01	02	25	02	700	384054	757463	GW	03										
1100100	191 01	02	25	02	700	382256	756891	GW	01										
1100100	191 01	02	23	02	700	380251	757686	GW	01										
1100100	191 01	02	21	02	700	379753	757159	GW	03										
1100100	191 01	02	21	02	700	384001	755125	GW	01										
1100100	191 01	02	28	02	700	383012	753227	GW	01										
1100100	191 01	02	29	02	700	381830	750207	GW	01										
1100100	191 01	02		02	700	388242	754522	GW	01										
1100100	191 01	02		02	700	387622	750497	GW	01										
1100100	191 01	02		02	700	385862	753166	GW	01										
1100100	191 01	02	24	02	700	395378	752126	GW	01										

1100100	191 01	02	22	397999	753152 GW 01	700	01	61	0.8	26	146 0.50	
1100100	191 01	02	15	403716	754712 GW 01	700	01	15	0.8	26	1104 0.50	
1100100	191 01	02	31	404695	752173 GW 01	700	01					
1100100	191 01	02	37	407314	752923 GW 01	700	01					
1100100	191 01	02	34	384104	749417 GW 01	700	01					
1100100	191 01	02	25	381033	748575 GW 01	700	01					
1100100	191 01	02	54	381212	748088 GW 01	700	01					
1100100	191 01	02	71	382741	746289 GW 01	700	01					
1100100	191 01	02	32	384363	749942 GW 01	700	01					
1100100	191 01	02		384062	748575 GW 01	700	01					
1100100	191 01	02	30	384075	748077 GW 01	700	01					
1100101	65.00	02	11 3/82	AG	GW	2		THE COLLIER COMPANY				
1100101-1	221 01	02		390737	682203 GW 01	600	01	61	3.6	15	2157 0.50	
1100101-2	221 01	02		387520	684843 GW 01	900	01	20	3.6	15	1500 0.50	
1100102	1596.56	03	11 1/79	AG	GW	35		THE COLLIER COMPANY				
1100102-5-1	206 01	02		386745	728835 GW 01	900	01					
1100102-5-2	206 01	02		386754	727863 GW 01	900	01					
1100102-5-3	206 01	02		386849	726838 GW 01	900	01					
1100102-5-4	206 01	02		386839	725902 GW 01	900	01					
1100102-5-5	206 01	02		386912	724188 GW 01	900	01					
1100102-5-6	206 01	02		384913	724383 GW 01	800	01					
1100102-5-7	206 01	02		389620	726478 GW 01	800	01					
1100102-5-8	206 01	02		389587	725111 GW 01	1000	01					
1100102-6-1	206 01	02		379627	728417 GW 01	1000	01					
1100102-6-2	206 01	02		380187	726877 GW 01	900	01					
1100102-6-3	206 01	02		380703	726386 GW 01	900	01					
1100102-6-4	206 01	02		383478	726344 GW 01	900	01					
1100102-6-5	206 01	02		379568	723855 GW 01	800	01					
1100102-7-1	206 01	02		379578	723488 GW 01	900	01					
1100102-7-2	206 01	02		381540	723528 GW 01	900	01					
1100102-7-3	206 01	02		382368	723512 GW 01	800	01					
1100102-7-4	206 01	02		384255	723524 GW 01	900	01					
1100102-7-5	206 01	02		384238	722407 GW 01	800	01					
1100102-7-6	206 01	02		381466	721750 GW 01	800	01					
1100102-7-7	206 01	02		381539	721174 GW 01	900	01					
1100102-7-8	206 01	02		384635	721266 GW 01	800	01					
1100102-7-9	206 01	02		382321	720908 GW 01	600	01					
1100102-7-10	206 01	02		382292	720306 GW 01	600	01					
1100102-7-11	206 01	02		380735	719890 GW 01	600	01					
1100102-7-12	206 01	02		380162	718587 GW 01	800	01					
1100102-11-1	206 01	02		406057	719990 GW 01	600	01					
1100102-12-1	206 01	02		410973	719225 GW 01	800	01					
1100102-12-2	206 01	02	56	406799	722595 GW 01	600	01					
1100102-12-3	206 01	02	52	407546	722186 GW 01	700	01					
1100102-18-1	206 01	02		380995	718027 GW 01	600	01					
1100102-18-2	206 01	02		382174	718037 GW 01	600	01					
1100102-18-3	206 01	02		383057	716648 GW 01	600	01					
1100102-18-4	206 01	02		382952	715850 GW 01	800	01					
1100102-18-5	206 01	02		380074	715919 GW 01	800	01					
1100102-18-6	206 01	02		379826	714053 GW 01	600	01					
1100103	148.17	04	11 5/84	AG	GW	9		BARRON COLLIER/SILVER STRAND	61	0.8	1	380 0.50

1100103-1	205 01	8.00 02	01	800	375141	739089	GW	01
1100103-2	205 01	8.00 02	01	800	375099	738164	GW	01
1100103-3	205 01	9.00 02	01	900	374481	736814	GW	01
1100103-4	205 01	9.00 02	03	900	375026	736826	GW	01
1100103-5	205 01	8.00 02	03	800	376409	736877	GW	01
1100103-6	205 01	6.00 02	03	600	376850	736369	GW	01
1100103-7	206 01	6.00 02	03	600	378809	735648	GW	01
1100103-8	206 01	6.00 02	03	600	377758	735193	GW	01
1100103-9	206 01	6.00 02	03	600	377445	734536	GW	01
1100104	84.00	26.20 02	11 1/79	LAN SW	3 MARCO ISLAND UTILITIES			
1100104-SW1	233 01		02	2200	272197	630164	SW	01 SW PUMPS SAME AS
1100104-SW2	233 01		02	2200	272197	630174	SW	01 PERMIT 11-00080 PWS
1100104-SW3	233 01		02	2400	272197	630184	SW	01
1100105	1171.38	03	210.54 02	11 1/79	AG	GW	6	
1100105		190 01	02	800	357691	771393	GW	03
1100105		190 01	02	800	357789	772541	GW	03
1100105-D4	190 01	02	185 135	800	365750	783300	GW	03
1100105-D6	190 01	02	190 130	800	370400	786600	GW	03
1100105-D7	190 01	02	190 130	800	365750	781400	GW	03
1100105-D8	190 01	02	190 130	800	368400	780900	GW	03
1100106	2710.00	03	2740.0 02	11 1/79	AG	BOTH	42	
1100106-1-1	220 01	8.00	03	800	343827	605829	GW	01 ALL WELLS ARE PUMPING FROM THE
1100106-1-2	220 01	8.00	03	800	342691	695725	GW	01 SHALLOW AQUIFER(WATER-TABLE)
1100106-1-3	220 01	6.00	03	800	347085	694238	GW	01
1100106-1-4	220 01	8.00	03	800	342833	693909	GW	01
1100106-1-5	220 01	8.00	03	800	343159	693364	GW	01
1100106-1-6	220 01	8.00	03	800	345070	693290	GW	01
1100106-1-7	220 01	8.00	03	800	345695	692600	GW	01
1100106-1-8	220 01	8.00	03	800	345078	691986	GW	01
1100106-2-1	220 01	16.00 02	123	1000	347193	690843	GW	03
1100106-2-2	220 01	10.00 02	71 60	1000	341111	694367	GW	01
1100106-2-3	220 01	12.00 02	120 70	1400	341125	693747	GW	03
1100106-2-4	220 01	12.00 02	120 70	1400	341089	692795	GW	03
1100106-2-5	220 02	12.00 02	120 70	1400	338432	692023	GW	03
1100106-3-1	219 01	9.00 02	115 70	900	334410	693480	GW	03
1100106-3-2	220 01	9.00 02	120 68	01	336220	692807	GW	03
1100106-3-3	219 01	9.00 02	119 71	900	334411	691358	GW	03
1100106-3-4	219 01	16.00 02	92 75	1000	334382	690952	GW	03
1100106-10-1	219 01	8.00 02	74 20	800	335800	690363	GW	01
1100106-11-1	220 01	16.00 02	92 81	1000	339931	689688	GW	03
1100106-11-2	220 01	16.00 02	83 76	01	338583	689525	GW	03
1100106-11-3	220 01	8.00 02	81 48	800	337417	688793	GW	01
1100106-11-4	220 01	12.00 02	100 70	1400	340910	687074	GW	01
1100106-11-5	220 02	12.00 02	120 70	1400	340505	688402	GW	01
1100106-12-1	220 01	9.00	03	900	345141	689446	GW	03
1100106-12-2	220 01	9.00	03	900	346200	689447	GW	03
1100106-12-3	220 01	9.00	03	900	345754	688816	GW	03
1100106-12-4	220 01	9.00	03	900	345772	688033	GW	03
1100106-12-5	220 01	9.00	03	900	345787	686721	GW	03
1100106-12-6	220 01	9.00	03	900	346339	686727	GW	03
1100106-13-1	220 01	10.00	03	1000	345086	685268	GW	03

1100106-13-2	220 01	10.00	03	900	345754	685265	GW	03
1100106-13-3	220 01	9.00	03	900	347121	684009	GW	03
1100106-13-4	220 01	9.00	03	900	346452	683487	GW	03
1100106-13-5	220 01	9.00	03	900	347033	682842	GW	03
1100106-13-6	220 01	9.00	03	800	346417	682816	GW	03
1100106-13-7	220 01	8.00	03	900	345102	682832	GW	03
1100106-14-1	220 01	8.00	03	900	342263	685301	GW	03
1100106-14-2	220 01	8.00	03	800	341435	685332	GW	03
1100106-14-3	220 01	9.00	03	900	339832	684238	GW	03
1100106-14-4	220 01	10.00	03	1000	337420	682903	GW	03
1100106-14-5	220 01	10.00	03	1000	337555	682698	GW	03
1100106-14-6	220 01	8.00	03	800	339791	682867	GW	03
1100106-14-7	220 01	8.00	03	800	342278	682742	GW	03
1100106-22-1	220 02	12.00	02	1400	342354	682497	GW	01
1100107		32.58	02	15	BARRON COLLIER			
1100107-1	191 01	02	01	800	391904	768663	GW	01
1100107-2	191 01	02	01	800	392614	763306	GW	01
1100107-3	191 01	02	01	800	393391	761761	GW	01
1100107-4	191 01	02	01	600	394255	762027	GW	01
1100107-5	191 01	02	01	800	397075	764295	GW	01
1100107-6	191 01	02	01	800	404781	763681	GW	01
1100107-7	191 01	02	01	800	404864	764717	GW	01
1100107-8	191 01	02	01	800	403195	765111	GW	01
1100107-9	191 01	02	01	800	403212	765667	GW	01
1100107-10	191 01	02	01	800	402186	765819	GW	01
1100107-11	191 01	02	01	800	403067	763371	GW	01
1100107-12	191 01	02	01	800	401460	762481	GW	01
1100107-13	191 01	02	01	800	402158	761771	GW	01
1100107-14	191 01	02	01	600	407450	761272	GW	01
1100107-15	191 01	02	01	600	410096	761974	GW	01
1100108					COLLIER DEVELOPMENT CORP.			
1100108-8-1	206 01	9.00	01	900	385179	722336	GW	01
1100108-8-2	206 01	6.00	01	600	386403	720631	GW	03
1100108-8-3	206 01	6.00	01	600	386428	719427	GW	03
1100108-17-1	206 01	9.00	01	900	385252	716691	GW	01
1100111		471.91	01	80	BARRON COLLIER (SILVER STRAND)			
1100111-P1	205 02	13.00	02	1000	364975	711604	GW	01
1100111-P2	205 02	13.00	02	1000	367669	712229	GW	01
1100111-P3	205 02	13.00	02	1000	365090	709226	GW	01
1100111-P4	205 02	13.00	02	1000	367771	710269	GW	01
1100111-P5	205 02	13.00	02	1000	367741	708437	GW	03
1100111-P6	205 02	13.00	02	1000	366315	707390	GW	03
1100111-P7	205 02	13.00	02	1000	366403	704608	GW	03
1100111-P8	205 02	13.00	02	1000	366465	702664	GW	01
1100111-P9	205 02	13.00	02	1000	373481	706909	GW	01
1100111-P10	205 02	13.00	02	1000	369411	712641	GW	01
1100111-P11	205 02	13.00	02	1000	373416	712231	GW	01
1100111-P12	205 02	13.00	02	1000	373497	710215	GW	01
1100111-P13	205 02	13.00	02	1000	373656	708322	GW	01
1100111-P14	205 02	13.00	02	1000	371704	709955	GW	01
1100111-22-1	205 03	8.00	02	800	368616	712485	GW	01
1100111-22-2	205 03	8.00	02	800	366612	711717	GW	03

1100111-22-3	205 03	8.00 02	72	33	33 03	800	368022	711612	GW	03
1100111-22-4	205 03	6.90 02	66	32	32 01	600	367767	710624	GW	03
1100111-22-5	205 03	6.00 02	64	33	33 01	600	363907	710273	GW	03
1100111-22-6	205 04	8.00 02	75	23	23 03	800	363908	709187	GW	01
1100111-22-7	205 03	8.00 02	58	34	34 03	600	366401	708894	GW	01
1100111-22-8	205 03	8.00 02	53	48	48 03	800	364494	708226	GW	01
1100111-23-1	205 04	8.00 02	67	23	23 03	800	369585	712407	GW	01
1100111-23-2	205 03	6.00 02	44	27	27 03	600	370439	712461	GW	01
1100111-23-3	205 03	6.00 02	12	12	12 03	600	373021	712312	GW	01
1100111-23-4	205 03	6.00 02	41	28	28 03	600	371626	710943	GW	01
1100111-23-5	205 03	10.00 02	21	19	19 03	1000	373729	709683	GW	01
1100111-23-6	205 03	10.00 02	69	42	42 03	1000	373713	709038	GW	01
1100111-23-7	205 03	6.00 02	62	39	39 03	600	373750	708533	GW	01
1100111-23-8	205 03	8.00 02	61	39	39 03	800	373984	708312	GW	01
1100111-27-1	205 01	13.00 02	28	26	26 03	1000	360694	706055	GW	01
1100111-27-2	205 03	13.00 02	31	33	33 03	1000	365127	704032	GW	01
1100111-27-3	205 03	13.00 02	36	33	33 03	1000	365159	702766	GW	01
1100111-27-4	205 03	13.00 02	50	43	43 03	1000	364558	703205	GW	01
1100111-25-6	205 01	8.00 02	54	38	01	800	374640	705155	GW	01
1100111-25-2	206 03	9.00 02	48	36	01	900	377992	707154	GW	01
1100111-25-4	205 03	8.00 02	47	34	03	800	374814	706487	GW	01
1100111-25-3	205 03	9.00 02	140	110	03	900	374782	707173	GW	03
1100111-25-5	205 03	9.00 02	52	39	03	800	375720	705464	GW	01
1100111-25-3	205 01	9.00 02	48	36	01	900	377082	707338	GW	01
1100111-25-7	205 03	8.00 02	47	28	01	800	375192	703148	GW	03
1100111-24-1	205 03	8.00 02	50	41	03	800	375013	712367	GW	01
1100111-35-3	205 03	8.00 02	46	22	03	800	373517	701777	GW	01
1100111-35-4	205 03	8.00 02	45	21	03	800	372118	701137	GW	03
1100111-35-5	205 03	8.00 02	46	23	03	800	373188	701218	GW	01
1100111-35-A	205 01	10.00 02	85	46	01	1000	373396	700518	GW	03
1100111-35-B	205 01	10.00 02	85	46	01	1000	373905	700084	GW	03
1100111-35-6	205 03	8.00 02	45	22	01	800	373987	698421	GW	01
1100111-36-1	205 03	8.00 02	46	24	01	800	376175	699140	GW	01
1100111-34-1	205 01	10.00 02	100	80	01	1200	367336	699561	GW	03
1100111-24-2	205 01	8.00 02	56	44	01	800	375766	708708	GW	01
1100111-35-1	205 03	8.00 02	45	23	01	800	373167	702244	GW	01
1100111-35-2	205 03	8.00 02	43	21	01	800	373868	702151	GW	01
1100112	2411.53	786.0	02	11	11/89 AG	GW	COLLIER ENT. (CMC FARMS INC.)			
1100112						118				
1100112-2-1	205 01	14.00 02	100	80	02	1400	337525	728322	GW	03
1100112-2-2	205 03	9.00 02	75	50	03	900	337379	725939	GW	01
1100112-2-3	205 03	9.00 02	67	48	03	900	337671	725172	GW	01
1100112-2-4	205 01	14.00 02	100	80	02	1400	338674	726761	GW	03
1100112-2-5	205 01	12.00 02	87	51	02	1200	340182	726412	GW	01
1100112-2-6	205 01	12.00 02	76	45	02	1200	342181	726360	GW	01
1100112-2-7	205 02	14.00 02	180	100	02	1400	342104	728203	GW	03
1100112-2-8	205 02	14.00 02	180	100	02	1400	341107	724211	GW	03
1100112-3-1	204 02	12.00 02	90	60	02	1200	335260	728168	GW	01
1100112-3-2	204 03	9.00 02	99	53	03	900	335576	726836	GW	01
1100112-3-3	204 03	9.00 02	45	21	03	900	335993	727543	GW	01
1100112-3-4	204 03	8.00 02	78	31	03	800	332184	723837	GW	01
1100112-3-5	204 03	8.00 02	31	25	03	800	333295	724587	GW	01
1100112-3-6	204 01	12.00 02	85	60	02	1200	333368	724146	GW	01
1100112-3-7	204 03	6.00 02	32	20	03	600	334092	724566	GW	01
1100112-3-8	204 03	8.00 02	36	21	03	800	335334	724559	GW	01
									60 0.8 26 3165 0.50	
									61 0.8 26 1581 0.50	

1100112-3-9	204 01	8.00 02	82	43 43	01	800	333524	723384	GW	01
1100112-3-10	204 01	8.00 02	78	39 39	01	800	334370	723635	GW	01
1100112-3-11	204 03	9.00 02	95	53 53	03	900	333117	728246	GW	01
1100112-3-12	204 02	14.00 02	180	100 100	02	1400	334967	724905	GW	03
1100112-3-12	204 02	14.00 02	180	100 100	02	1400	335728	726086	GW	03
1100112-3-12	204 01	8.00 02	93	44 44	01	800	332915	722715	GW	01
1100112-10-1	204 01	8.00 02	81	50 50	02	800	332678	720717	GW	01
1100112-10-2	204 01	8.00 02	81	50 50	02	800	335828	722204	GW	01
1100112-10-3	204 03	6.00 02	26	21 21	03	600	334485	722709	GW	03
1100112-10-4	204 02	14.00 02	180	100 100	02	1400	338053	722686	GW	01
1100112-11-1	205 01	9.00 02	74	42 42	02	900	342109	722330	GW	01
1100112-11-2	205 01	9.00 02	60	39 39	01	900	342296	719361	GW	01
1100112-11-3	205 01	6.00 02	43	21 21	01	600	342024	718693	GW	01
1100112-11-4	205 03	6.00 02	33	20 20	03	600	341700	718114	GW	01
1100112-11-5	205 01	13.00 02	115	55 55	02	600	339685	722953	GW	03
1100112-11-6	205 02	14.00 02	180	100 100	02	1400	345645	717819	GW	01
1100112-13-1	205 03	8.00 02	43	23 23	03	800	345142	716744	GW	01
1100112-13-2	205 01	12.00 02	41	21 21	01	1200	346305	717070	GW	03
1100112-13-3	205 01	8.00 02	34	18 18	01	800	347597	713889	GW	01
1100112-13-4	205 01	8.00 02	85	45 45	01	800	347513	715292	GW	01
1100112-13-5	205 02	12.00 02	100	60 60	02	1200	340487	714800	GW	01
1100112-14-1	205 01	8.00 02	23	20 20	01	800	340023	714362	GW	01
1100112-14-2	205 01	6.00 02	24	18 18	01	600	341112	713494	GW	01
1100112-14-3	205 01	9.00 02	39	20 20	01	900	341799	714464	GW	01
1100112-14-4	205 01	12.00 02	100	60 60	02	1200	340892	717662	GW	03
1100112-14-5	205 03	8.00 02	29	18 18	03	800	331861	717473	GW	01
1100112-14-6	205 02	14.00 02	180	100 100	02	1400	331956	716684	GW	01
1100112-15-1	204 01	8.00 02	45	21 21	01	800	332159	715749	GW	01
1100112-15-2	204 01	8.00 02	53	23 23	01	800	332173	714819	GW	01
1100112-15-3	204 01	8.00 02	97	43 43	01	800	332076	713338	GW	01
1100112-15-4	204 01	8.00 02	45	19 19	01	800	334200	712820	GW	03
1100112-15-5	204 01	8.00 02	89	40 40	01	800	335971	712825	GW	01
1100112-15-6	204 01	12.00 02	101	55 55	02	1200	335253	713386	GW	03
1100112-15-7	204 03	8.00 02	35	25 25	03	800	334858	713697	GW	01
1100112-15-8	204 02	14.00 02	100	60 60	02	1400	332274	712323	GW	01
1100112-15-T1	204 03	9.00 02	43	25 25	03	900	332307	711798	GW	03
1100112-22-1	204 03	9.00 02	43	25 25	03	900	333412	712356	GW	01
1100112-22-2	204 01	12.00 02	120	53 53	02	1200	333237	709998	GW	03
1100112-22-3	204 03	9.00 02	62	39 39	03	900	331987	707942	GW	01
1100112-22-4	204 01	12.00 02	115	60 60	02	1200	334126	712492	GW	03
1100112-22-5	204 03	8.00 02	43	21 21	03	800	334747	712468	GW	01
1100112-22-6	204 01	12.00 02	115	60 60	02	1200	335788	712386	GW	03
1100112-22-7	204 03	8.00 02	53	23 23	03	800	333535	708333	GW	01
1100112-22-8	204 01	12.00 02	115	60 60	02	1200	335607	707516	GW	01
1100112-22-9	204 03	10.00 02	72	43 43	03	1000	332282	712343	GW	01
1100112-22-10	204 03	9.00 02	69	38 38	03	900	334219	710637	GW	03
1100112-22-11	204 03	8.00 02	21	19 19	03	800	335239	710534	GW	03
1100112-22-12	204 02	14.00 02	180	100 100	02	1400	337617	712425	GW	03
1100112-22-13	204 03	14.00 02	180	100 100	02	1400	339090	712212	GW	01
1100112-23-1	205 02	16.00 02	95	53 53	03	600	339876	712304	GW	01
1100112-23-2	205 03	6.00 02	43	22 22	03	600	340297	711789	GW	01
1100112-23-3	205 01	9.00 02	76	49 49	01	900	340929	712314	GW	01
1100112-23-4	205 01	12.00 02	106	60 60	01	1200	341654	712301	GW	01
1100112-23-5	205 01	10.00 02	98	57 57	02	1000	337475	708740	GW	01
1100112-23-6	205 01	10.00 02	81	19 19	01	1000	337941	707564	GW	01
1100112-23-7	205 03	6.00 02	22	19 19	03	600				
1100112-23-8	205 03	8.00 02	73	22 22	03	800				

1100112-23-9	205 01	12.00 02	93	60 60	1200	338831	707707	GW	03
1100112-23-10	205 03	9.00 02	98	43 43	900	339465	707791	GW	01
1100112-23-11	205 03	9.00 02	87	48 48	900	340260	707550	GW	01
1100112-23-12	205 02	14.00 02	180	100 100	1400	340050	709903	GW	03
1100112-24-1	205 03	8.00 02	33	15 15	800	342745	707636	GW	01
1100112-24-2	205 03	8.00 02	61	26 26	800	343099	707978	GW	01
1100112-24-3	205 01	12.00 02	61	37 37	1200	344331	707611	GW	01
1100112-24-4	205 02	14.00 02	180	100 100	1400	344213	708709	GW	03
1100112-25-1	205 01	12.00 02	83	52 52	1200	344163	707035	GW	01
1100112-25-2	205 01	12.00 02	100	60 60	1200	347531	706010	GW	03
1100112-25-3	205 01	12.00 02	83	59 59	1200	344606	704580	GW	01
1100112-25-4	205 03	12.00 02	47	35 35	1200	342815	705188	GW	01
1100112-25-5	205 01	12.00 02	65	39 39	1200	342996	704065	GW	01
1100112-25-6	205 03	8.00 02	43	17 17	800	342726	702957	GW	01
1100112-25-7	205 03	12.00 02	93	22 22	1200	343822	702786	GW	01
1100112-25-8	205 01	12.00 02	73	37 37	1200	345020	702751	GW	01
1100112-25-9	205 02	14.00 02	120	80 80	1400	345456	705477	GW	03
1100112-25-10	205 02	14.00 02	120	80 80	1400	345813	704790	GW	03
1100112-26-1	205 01	12.00 02	81	43 43	1200	342241	707098	GW	01
1100112-26-2	205 02	9.00 02	102	33 33	900	340393	706143	GW	01
1100112-26-3	205 01	10.00 02	110	47 47	1000	341262	704785	GW	01
1100112-26-4	205 01	14.00 02	100	80 80	1400	342307	706048	GW	03
1100112-26-5	205 01	10.00 02	110	36 36	1000	339917	704295	GW	01
1100112-26-6	205 03	9.00 02	53	21 21	900	340571	703719	GW	01
1100112-26-7	205 01	12.00 02	103	37 37	1200	340054	703061	GW	01
1100112-26-8	205 01	14.00 02	100	80 80	1400	338224	703852	GW	03
1100112-26-9	205 01	9.00 02	60	20 20	900	337738	704432	GW	01
1100112-26-10	205 02	14.00 02	180	100 100	1400	341818	703075	GW	03
1100112-27-1	204 01	9.00 02	109	22 22	900	332431	704579	GW	01
1100112-27-2	204 01	9.00 02	43	17 17	900	333051	703782	GW	01
1100112-27-3	204 03	8.00 02	89	37 37	800	334201	703879	GW	01
1100112-27-4	204 03	8.00 02	106	33 33	800	335033	703717	GW	01
1100112-27-5	204 03	9.00 02	100	36 36	900	335559	703922	GW	01
1100112-27-6	205 01	9.00 02	51	21 21	900	336582	704599	GW	01
1100112-27-7	205 03	9.00 02	99	35 35	900	336499	702124	GW	01
1100112-27-8	205 03	8.00 02	54	25 25	800	336621	706498	GW	01
1100112-27-9	204 02	14.00 02	180	100 100	1400	335108	704985	GW	03
1100112-34-1	204 01	8.00 02	66	33 33	800	332229	699156	GW	01
1100112-34-2	204 01	8.00 02	82	37 37	800	332136	698299	GW	01
1100112-34-3	205 01	8.00 02	71	41 41	1	336309	699797	GW	01
1100112-35-1	205 03	8.00 02	31	19 19	800	337573	698772	GW	01
1100112-35-2	205 03	10.00 02	50	25 25	1000	337589	697991	GW	01
1100112-35-3	205 03	8.00 02	95	48 48	800	339984	701430	GW	01
1100112-35-4	205 01	14.00 02	100	80 80	1400	338771	701438	GW	03
1100112-35-5	205 01	12.00 02	84	34 34	1200	339924	699263	GW	01
1100112-35-6	205 02	14.00 02	180	100 100	1400	338559	700269	GW	03
1100113	1305.4802	11	1/85	AG	88	THE COLLIER CO.			
1100113-7-1	189 01	8.00		03	800	320082	753696	GW	01
1100113-7-2	189 01	8.00		03	800	319978	752300	GW	01
1100113-7-3	189 01	8.00		03	800	319999	751620	GW	01
1100113-8-1	189 01	6.00		03	600	321625	753990	GW	01
1100113-8-2	189 01	8.00		03	800	322205	753993	GW	01
1100113-9-1	189 01	8.00		03	800	329190	751791	GW	01
1100113-9-2	189 01	10.00		03	1000	329284	750754	GW	03
1100113	1305.4802	11	1/85	AG	88	THE COLLIER CO.			
1100113-7-1	189 01	8.00		03	800	320082	753696	GW	01
1100113-7-2	189 01	8.00		03	800	319978	752300	GW	01
1100113-7-3	189 01	8.00		03	800	319999	751620	GW	01
1100113-8-1	189 01	6.00		03	600	321625	753990	GW	01
1100113-8-2	189 01	8.00		03	800	322205	753993	GW	01
1100113-9-1	189 01	8.00		03	800	329190	751791	GW	01
1100113-9-2	189 01	10.00		03	1000	329284	750754	GW	03

WINDMILL

61 0.8 19 4936 0.50
20 0.8 19 1533 0.50

1100114-2-1	220 01	8.00	03	800	372990	695372	GW	01
1100114-2-2	220 01	8.00	03	800	370305	695066	GW	01
1100114-2-3	220 01	18.00	03	1800	369702	694012	GW	03
1100114-2-4	220 01	8.00	03	800	370365	693810	GW	01
1100114-2-5	220 01	8.00	03	800	369674	692880	GW	01
1100114-3-1	220 01	8.00	03	800	364235	696590	GW	01
1100114-3-2	220 01	8.00	03	800	365250	696564	GW	01
1100114-3-3	220 01	8.00	03	800	366632	696624	GW	01
1100114-3-4	220 01	8.00	03	800	365053	695764	GW	01
1100114-3-5	220 01	8.00	03	800	363952	694244	GW	01
1100114-5-1	220 01	8.00	03	800	354752	693440	GW	01
1100114-5-2	220 01	8.00	03	800	355458	693038	GW	01
1100114-5-3	220 01	8.00	03	800	354451	693081	GW	03
1100114-5-4	220 01	10.00	03	1000	354390	691714	GW	03
1100114-6-1	220 01	8.00	03	800	347959	693819	GW	03
1100114-6-2	220 01	16.00	03	1600	349713	693457	GW	03
1100114-6-3	220 01	8.00	03	800	350184	693204	GW	01
1100114-6-4	220 01	6.00	03	600	351040	693201	GW	01
1100114-6-5	220 01	6.00	03	600	351014	692525	GW	01
1100114-6-6	220 01	16.00	03	1600	349248	692951	GW	03
1100114-6-7	220 01	8.00	03	800	349226	692383	GW	01
1100114-6-8	220 01	8.00	03	800	348394	692310	GW	01
1100114-6-9	220 01	8.00	03	800	348353	691943	GW	01
1100114-6-10	220 01	8.00	03	800	348103	691472	GW	01
1100114-6-11	220 01	8.00	03	800	351042	691493	GW	01
1100114-7-1	220 01	8.00	03	800	350503	690531	GW	01
1100114-7-2	220 01	8.00	03	800	349007	688141	GW	01
1100114-7-3	220 01	8.00	03	800	352862	688128	GW	01
1100114-7-4	220 01	12.00	03	1200	348969	687434	GW	01
1100114-8-1	220 01	8.00	03	800	354122	690467	GW	03
1100114-8-2	220 01	8.00	03	800	357733	690490	GW	03
1100114-8-3	220 01	8.00	03	800	357738	689731	GW	03
1100114-8-4	220 01	8.00	03	800	356029	688057	GW	03
1100114-8-5	220 01	12.00	03	1200	353775	687449	GW	03
1100114-8-6	220 01	8.00	03	800	354473	686699	GW	03
1100114-9-1	220 01	8.00	03	800	358594	688448	GW	03
1100116	80.87	22.20	02	11 11/88 AG	DAVID C. BROWN			61 0.4 1 120 0.50
1100116-1	233 02	8.00 02	01	800	285308	630049	GW	01
1100116-2	233 02	8.00 02	01	800	285285	629470	GW	01
1100116-3	233 02	8.00 02	01	800	285309	628790	GW	01
1100116-4	233 02	8.00 02	01	800	285284	628038	GW	01
1100116-5	233 02	8.00 02	01	800	285268	627367	GW	01
1100116-6	233 02	8.00 02	01	800	285412	626697	GW	01
1100116-7	233 02	8.00 02	01	800	285226	626195	GW	01
1100116-8	233 02	8.00 02	01	800	285270	625543	GW	01
1100116-9	233 02	8.00 02	01	800	286745	629780	GW	01
1100116-10	233 02	8.00 02	01	800	286463	628640	GW	01
1100116-11	233 02	8.00 02	01	800	286655	626366	GW	01
1100116-12	233 02	8.00 02	01	800	286627	625679	GW	01
1100117	508.80	4.01	02	11 5/89 AG	3 MICHAEL & JOE PROCACCI			60 0.4 1 625 0.50
1100117-613	217 01	10.00 02	03	800	250871	693188	GW	03
1100117-614	217 01	14.00 02	03	800	253249	693206	GW	03
1100117-676	218 01	8.00 02	03	1000	263904	684087	GW	03

1100117-659	218 01	8.00 02	95	60	03	1000	263923	683739	03		
1100117-627	218 01	4.00			03	1000	262790	684891	03		
1100118	32.60	03	61.1	02	11 2/79	AG	GW	PDA TEMPLES GROVE	14	15 0.4	1 75 0.85
1100118-1	217 01	2.00 02	65		01	65	248243	688202	03	12 0.4	1 75 0.85
1100118-2	217 01	2.00 02	65		01	65	249575	688425	03		
1100118-3	217 01	6.00 02	65		01	700	249563	688053	03		
1100118-4	217 01	2.00 02	65		01	65	250838	688435	03		
1100118-5	217 01	6.00 02	65		01	700	251002	688652	03		
1100118-6	217 01	2.00 02	65		01	65	251411	688380	03		
1100118-7	217 01	2.00 02	65		01	65	250980	687744	03		
1100118-8	217 01	2.00 02	65		01	65	251387	688004	03		
1100118-9	217 01	6.00 02	65		01	700	251624	687837	03		
1100118-10	217 01	2.00 02	65		01	65	251468	687673	03		
1100118-11	217 01	2.00 02	65		01	65	251468	687501	03		
1100118-12	217 01	2.00 02	65		01	65	251501	687333	03		
1100118-13	217 01	2.00 02	65		01	65	252120	687754	03		
1100118-14	217 01	8.00 02	65		01	1000	252111	688302	03	13 1.5	15 1800 0.50
1100119	223.0	02	11 11/86	AG	GW	12	ALICO (PELDA GROVE)				
1100119-1	191 01	6.00 02	70	50	02	600	380900	792550	01		
1100119-2	191 01	6.00 02	70	50	02	600	380500	790850	01		
1100119-3	191 01	6.00 02	70	50	02	600	378200	790500	01		
1100119-4	191 01	6.00 02	70	50	02	600	378800	789000	01		
1100119-5	191 01	6.00 02	70	50	02	600	378800	787650	01		
1100119-6	191 01	6.00 02	70	50	02	600	378600	787700	01		
1100119-7	173 01	6.00 02	70	50	02	600	380726	787720	01		
1100119-8	173 01	6.00 02	70	50	02	600	381489	788805	01		
1100119-9	173 01	6.00 02	70	50	02	600	381637	793087	01		
1100119-10	191 01	6.00 02	70	50	02	600	382424	787591	01		
1100119-11	191 01	6.00 02	70	50	02	600	383301	787164	01	13 0.8	15 175 0.85
1100120	71.84	03	26.44	02	11 12/88	AG	GW	BOB PAUL, INC.	6		
1100120-1	190 03	12.00 02	210			500	349431	777537	04		
1100120-2	190 01	8.00 02	80			250	350454	776467	01		
1100120-3	190 01	8.00 02	80			250	351121	776453	01		
1100120-4	190 01	8.00 02	80			450	351614	776455	01		
1100120-5	190 01	8.00 02	80			450	350606	775206	01		
1100120-6	190 01	8.00 02	80			450	351418	775191	01		
1100121	4918.70	03	751.86	02	11 6/87	AG	GW	ABC FARMS, INC.	58	61 0.4	19 2610 0.50
1100121-604	190 01	2.00 02	22	20	01	200	357902	750385	01	15 0.4	19 300 0.50
1100121-BA	190 01	8.00 02	30	20	01	800	356188	751234	01		
1100121-8B	190 01	8.00 02	26	20	01	600	355659	750961	01		
1100121-8C	190 01	6.00 02	26	20	01	600	354970	751150	01		
1100121-8D	190 01	6.00 02	26	20	01	600	354922	750092	01		
1100121-8E	190 01	6.00 02	26	20	01	600	354353	754086	01		
1100121-8F	190 01	6.00 02	26	20	01	600	353183	754078	01		
1100121-8G	190 01	6.00 02	26	20	01	600	353231	752163	01		
1100121-8H	190 01	6.00 02	26	20	01	600	356136	752408	01		
1100121-13A	190 01	8.00 02	40	40	01	800	345735	749272	01		
1100121-13B	190 01	8.00 02	42	40	01	800	347308	747927	01		
1100121-13C	190 01	6.00 02	47	40	01	800	346797	745702	01		
1100121-13D	190 01	10.00 02	45	40	01	1000	345146	748363	01		

1100121-16A	190 01	2.00 02	20	20	01	200	362657	748894	GW	01
1100121-16B	190 01	10.00 02	23	20	01	1000	360774	748478	GW	01
1100121-16C	190 01	10.00 02	120	40	01	1000	359276	748330	GW	03
1100121-16D	190 01	2.00 02	60	40	01	200	363210	745590	GW	01
1100121-16E	190 01	6.00 02	50	40	01	600	360073	745545	GW	01
1100121-16F	190 01	6.00 02	20	20	01	600	359813	744548	GW	01
1100121-16G	190 01	8.00 02	55	40	01	800	361039	744832	GW	01
1100121-17A	190 01	6.00 02	110	60	01	600	353520	748466	GW	03
1100121-17B	190 01	6.00 02	36	20	01	600	353217	749037	GW	01
1100121-17C	190 01	8.00 02	50	40	01	800	354093	746719	GW	01
1100121-17D	190 01	8.00 02	50	40	01	800	356813	748077	GW	01
1100121-17E	190 01	8.00 02	56	40	01	800	356797	747120	GW	01
1100121-17F	190 01	10.00 02	90	40	01	1000	357244	746328	GW	03
1100121-17G	190 01	10.00 02	55	40	01	1000	358046	745329	GW	01
1100121-17H	190 01	8.00 02	120	60	01	800	353388	746491	GW	03
1100121-17I	190 01	8.00 02	60	40	01	800	355451	746891	GW	01
1100121-17J	190 01	6.00 02	50	40	01	600	356450	746270	GW	01
1100121-17K	190 01	10.00 02	100	60	01	1000	355113	745862	GW	03
1100121-18A	190 01	8.00 02	25	20	01	800	350964	749643	GW	01
1100121-18B	190 01	6.00 02	115	60	01	600	350588	745301	GW	03
1100121-18C	190 01	8.00 02	109	60	01	800	349093	746110	GW	03
1100121-18D	190 01	8.00 02	115	60	01	800	349105	745630	GW	03
1100121-18E	190 01	8.00 02	60	40	01	800	351609	746960	GW	01
1100121-18F	190 01	8.00 02	70	60	01	800	352410	747915	GW	01
1100121-19A	205 01	8.00 02	30	20	01	800	350690	740296	GW	01
1100121-19B	205 01	8.00 02	60	40	01	800	347858	741618	GW	01
1100121-19C	205 01	8.00 02	50	40	01	800	349467	739455	GW	01
1100121-19D	205 01	10.00 02	70	60	01	1000	347759	739358	GW	01
1100121-19E	205 01	8.00 02	32	32	01	800	349536	740763	GW	01
1100121-20A	205 01	8.00 02	32	32	01	800	354612	744221	GW	01
1100121-20B	205 01	8.00 02	35	25	01	800	354322	743975	GW	01
1100121-21A	205 01	10.00 02	51	40	01	1000	362411	743294	GW	01
1100121-21B	205 01	8.00 02	60	40	01	800	363746	744695	GW	01
1100121-21C	205 01	8.00 02	65	40	01	800	362795	744790	GW	01
1100121-21D	205 01	8.00 02	50	40	01	800	365761	743469	GW	01
1100121-21E	205 01	10.00 02	42	40	01	1000	367461	742996	GW	01
1100121-21F	190 01	8.00 02	60	40	01	800	367749	744774	GW	01
1100121-21G	205 01	10.00 02	50	40	01	1000	367643	745994	GW	01
1100121-21H	190 01	8.00 02	55	40	01	800	362124	743134	GW	01
1100121-21I	190 01	8.00 02	90	60	01	800	363286	742946	GW	01
1100121-21J	205 01	10.00 02	150	60	03	600	358775	741635	GW	01
1100121-P1	190 02	10.00 02	150	60	03	600	346132	745453	GW	03
1100121-P2	190 02	10.00 02	150	60	03	600	356196	749690	GW	03
1100121-P3	190 02	10.00 02	150	60	03	600	351693	747550	GW	03
1100121-P4	190 01	10.00 02	150	60	01	600	361984	744264	GW	03
1100122	368.00	125.0	02	11	2/79	AG	TURNER CORP			
1100122-2-1	191 03	8.00			03	300	378275	753891	GW	01
1100122-2-2	191 03	8.00			03	300	378361	751778	GW	01
1100122-10-1	191 03	4.00			03	100	378275	753891	GW	01
1100122-10-2	191 03	9.00			03	600	378361	751778	GW	01
1100122-10-3	190 01	8.00			03	600	367729	750405	GW	01
1100122-12-1	191 03	6.00			03	200	378275	753891	GW	01
1100122-12-2	191 03	10.00			03	400	378361	751778	GW	01
1100122-12-3	190 03	8.00			03	400	376694	752307	GW	01
							20	0.8	1	500 0.50
							61	0.8	1	24 0.50

1100123	3.25	03	3.14	02	11	9/84	AG	GW	2	PAUL J. KRUSE	13	0.4	1	15	0.75
1100123-1	219 02	219 02	8.00 02	100 80	01	1200		03	303524 683180 GW	03					
1100123-2	219 02	219 02	8.00 02	100 80	01	1200		03	303497 682545 GW	03					
1100125	190.40	03	50.70	02	11	1/85	AG	BOTH	3	ROYCE O. STALLING	61	0.4	1	60	0.50
1100125-1	217 01	217 01	8.00 02	45 40	02	800		01	249517 682981 GW	01	61	0.4	1	40	0.85
1100125-2	217 01	217 01	8.00 02	45 40	02	800		01	250765 682967 GW	01					
1100125-3	217 01	217 01	8.00 02	40 20	02	205		01	248364 681735 GW	01					
1100125-SW1	217 01	217 01	20.00		02	8000		01	248131 682218 SW	01					
1100125-SW2	217 01	217 01	20.00		02	8000		01	249447 681873 SW	01					
1100125-SW3	217 01	217 01	20.00		02	8000		01	250439 681935 SW	01					
1100126	13.03	03	51.90	02	11	3/79	AG	GW	2	D.T. FARMS INC.	60	0.4	1	60	0.50
1100126-1	218 03	218 03	8.00 02	45 45	01	1000		01	255711 695518 GW	01					
1100126-2	218 03	218 03	8.00 02	45 45	01	700		01	254854 695493 GW	01					
1100128	1415.0	01	11	9/81	AG	GW	25		ALICO	13	1.5	15	3455	0.50	
1100128	189 01	189 01	8.00 02	32	01	600		01	318734 787715 GW	01					
1100128	189 01	189 01	9.00 02	30	01	600		01	319407 787660 GW	01					
1100128	189 01	189 01	9.00 02	44	01	600		01	320776 785500 GW	01					
1100128	189 01	189 01	6.00 02	28	01	600		01	318378 784756 GW	01					
1100128	189 01	189 01	9.00 02	41	01	600		01	318202 781523 GW	01					
1100128	189 01	189 01	6.00 02	45	01	600		01	334723 783071 GW	01					
1100128	189 01	189 01	6.00 02	45	01	500		01	333385 784507 GW	01					
1100128	189 01	189 01	6.00 02	55	01	500		01	334168 784656 GW	01					
1100128	189 01	189 01	6.00 02	55	01	500		01	332745 787685 GW	01					
1100128	189 01	189 01	6.00 02	30	01	500		01	329628 785595 GW	01					
1100128	189 01	189 01	6.00 02	90	01	500		03	331994 786998 GW	03					
1100128	171 01	171 01	8.00 02	190	01	650		03	334530 791410 GW	03					
1100128-14	171 01	171 01	8.00 02	190	01	650		03	335678 791091 GW	03					
1100128-15	171 01	171 01	6.00 02	60	01	500		03	336215 790122 GW	03					
1100128-1	171 01	171 01	6.00 02	150	01	500		03	336215 788608 GW	03					
1100128-2	171 01	171 01	6.00 02	196	01	1100		01	335974 788155 GW	01					
1100128-3	171 01	171 01	4.00 02	48	01	350		01	329929 788177 GW	01					
1100128-10	171 01	171 01	6.00 02	30	01	500		01	329495 789057 GW	01					
1100128-11	171 01	171 01	6.00 02	45	01	500		01	329382 788205 GW	01					
1100128-12	171 01	171 01	6.00 02	45	01	500		01	315806 790673 GW	01					
1100128-1	171 04	171 04	7.00 02	45	01	1100		01	319980 791368 GW	01					
1100128-2	171 01	171 01	10.00 02	39	01	600		01	322822 791611 GW	01					
1100128-3	171 01	171 01	9.00 02	38	01	600		01	321103 789453 GW	01					
1100128-4	171 01	171 01	9.00 02	46	01	600		01	322600 789637 GW	01					
1100128-5	171 01	171 01	9.00 02	33	01	600		01	323823 789630 GW	01					
1100128-6	171 01	171 01	9.00 02	33	01	600		01							
1100129	10.85	03	4.82	02	11	3/79	AG	GW	1	RED CATTLE CO.	13	0.8	1	25	0.75
1100129-1	190 03	190 03	6.00 02	240	02	800		04	359196 758512 GW	04					
1100130	53.10	03	41.8	02	11	3/79	LAN	GW	1	SHELTON CORP. OF CANADA LTD.	15	0.4	1	150	0.75
1100130-SW1	217 01	217 01	6.00 02	17	03	1200		01	247587 667474 SW	01					
1100131	85.80	03	82.30	02	11	3/79	LAN	GW	3	LELY ESTATES INC.	15	0.4	1	300	0.75
1100131-1	233 01	233 01	12.00 02	32	03	1200		01	256496 644394 GW	01					
1100131-2	233 01	233 01	10.00 02	18	03	900		01	257855 642358 GW	01					
1100131-3	233 01	233 01	6.00 02	17	03	300		01	260264 643109 GW	01					

1100135	387.93	03	93.34	02	11	12/87	AG	GW	13	LAKE TRAFFORD GROVE	13	0.4	26	333 0.85
1100135		205 01	6.00	02	110			01	800	359716 739215 GW 01	20	0.4	26	200 0.50
	1100135-1	205 01	10.00	02	110			01	1200	361030 739218 GW 01				
	1100135-2	205 01	6.00	02	110			01	800	361615 739242 GW 01				
	1100135-3	205 01	6.00	02	110			01	800	362271 739142 GW 01				
	1100135-4	205 01	6.00	02	110			01	800	362352 737523 GW 01				
	1100135-5	205 01	6.00	02	110			01	1200	362315 736726 GW 01				
	1100135-6	205 01	10.00	02	110			01	1200	362350 734182 GW 01				
	1100135-7	205 01	10.00	02	110			01	800	363388 734195 GW 01				
	1100135-8	205 01	8.00	02	110			01	1200	359567 734265 GW 01				
	1100135-9	205 01	10.00	02	110			01	550	362985 736704 GW 01				
	1100135-10	205 01	10.00	02	46			01	550	363033 736347 GW 01				
	1100135-11	205 01	10.00	02	46			01	1000	361251 736291 GW 03				
	1100135-12	205 01	12.00	02	200	120		01	1000	360397 736596 GW 03				
	1100135-13	205 01	12.00	02	200	120		01	1000					
1100136	8.47	03	5.91	02	11	3/79	AG	GW	2	ASGROW SEED CO.	60	0.4	1	23 0.50
1100136		203 01	8.00	02	179			03	450	269061 705434 GW 03	15	0.4	1	1 0.50
	1100136-1	203 01	8.00	02	184			03	450	269083 703533 GW 03				
	1100136-2	203 01	8.00	02	184			03	450					
1100138	35.50	03	21.10	02	11	5/79	GLP	SW	500	2 GOLDEN GATE GOLF COURSE	15	0.4	1	77 0.75
	1100138-SW1	218 01						03	500	272582 671487 SW 01				
	1100138-SW2	218 01						03	500	274142 670117 SW 01				
1100140	18.25	03	47.50	02	11	5/79	AG	GW	2	HARRY C. McDONALD	13	0.8	26	84 0.50
	1100140-1	190 01	8.00	02	120			02	600	353512 779223 GW 03				
	1100140-2	190 01	8.00	02	120			02	600	353540 780012 GW 03				
1100143	30.58	03	10.35	02	11	10/89	AG	GW	5	T. SIMPSON (BIG ISLAND CITRUS)	13	0.4	1	57 0.85
1100143		204 04	6.00	02	130	20		01	500	314543 738710 GW 01	70	0.4	1	4 0.20
	1100143-1	204 04	6.00	02	130	20		01	500	315259 737043 GW 01				
	1100143-2	204 04	6.00	02	160	20		01	500	313986 737007 GW 01				
	1100143-3	204 04	6.00	02	160	133		02	700	314527 737741 GW 03				
	1100143-4	204 01	12.00	02	160	133		02	700	315172 737717 GW 03				
	1100143-5	204 01	12.00	02	160	133		02	700					
1100144	214.59	03	49.0	02	11	3/84	AG	GW	3	DAN MCALLISTER (DOUBLE BEARM)	61	0.4	1	200 0.50
	1100144-3	233 01	8.00	02	40	20		01	400	266893 625425 GW 01				
	1100144-4	233 01	8.00	02	45	25		01	600	266489 625078 GW 01				
	1100144-5	233 02	8.00	02	60	30		01	350	266457 627798 GW 01				
1100145	47.40	03	13.70	02	11	3/80	LAN	SW	300	3 KINGS LAKE, LTD.	15	0.4	1	50 0.75
	1100145-SW1	218 02						02	700	254888 651994 SW 01				
	1100145-SW2	233 02						02	700	255421 651697 SW 01				
	1100145-SW3	218 02						02	700	256153 652134 SW 01				
1100146		190 01	22.60	02	11	7/86	AG	GW	2	HARRY C. McDONALD	13	0.8	15	40 0.50
	1100146-1	190 01	6.00	02	84			01	500	354736 784631 GW 01				
	1100146-2	190 01	6.00	02	84			01	500	354638 783403 GW 01				
1100147			177.0	02	11	3/82	AG	GW	41	MILES SCOFIELD	13	0.8	26	640 0.85
1100147		192 01	6.00	02	61			03	600	420434 767462 GW 03	15	0.8	26	2520 0.50
	1100147-29-1	192 01	6.00	02	84			03	600	426408 771287 GW 03				
	1100147-28-1	192 01	6.00	02	84			03	600	424256 769126 GW 03				
	1100147-28-2	192 01	6.00	02				03	600					

1100147-28-3	192 01	6.00 02	59	600	421786	768661 GW	03					
1100147-18-1	191 01	8.00 02	185	800	413899	778428 GW	03					
1100147-18-2	191 01	8.00 02	103	800	412913	779107 GW	03	WINDMILL				
1100147-18-3	191 01	8.00 02	178	800	412065	777924 GW	03					
1100147-18-4	191 01	6.00 02	80	600	413897	780619 GW	03					
1100147-18-5	191 01	8.00 02	103	800	413420	779889 GW	03					
1100147-19-1	191 01	6.00 02	88	600	415371	771997 GW	03					
1100147-19-2	191 01	6.00 02	88	600	414951	772255 GW	03					
1100147-19-3	191 01	8.00 02	96	800	417421	773611 GW	03					
1100147-19-4	191 01	8.00 02	96	800	434483	774514 GW	03					
1100147-19-5	191 01	8.00 02	94	800	413007	774457 GW	03					
1100147-19-6	191 01	6.00 02	84	600	411651	774473 GW	03					
1100147-19-7	191 01	6.00 02	87	600	411127	775567 GW	03					
1100147-19-8	191 01	8.00 02	101	800	414214	776589 GW	03					
1100147-30-1	191 01	10.00 02	69	1000	415968	766996 GW	03					
1100147-30-2	191 01	8.00 02	95	800	414362	768926 GW	03					
1100147-30-3	191 01	6.00 02	69	600	414016	771227 GW	03					
1100147-30-4	191 01	6.00 02	79	600	411212	766981 GW	03					
1100147-13-1	191 01	8.00 02	102	800	406788	776884 GW	03					
1100147-13-2	191 01	8.00 02	107	800	407803	778654 GW	03					
1100147-13-3	191 01	4.00 02	25	400	407037	779194 GW	01	WINDMILL				
1100147-14-1	191 01	6.00 02	39	600	401723	778989 GW	01					
1100147-14-2	191 01	6.00 02	97	600	401785	779611 GW	03					
1100147-14-3	191 01	6.00 02	110	600	401050	779414 GW	03					
1100147-14-4	191 01	4.00 02	23	400	400786	779734 GW	01					
1100147-22-1	191 01	6.00 02	94	600	400240	775742 GW	03					
1100147-23-1	191 01	6.00 02	84	600	401826	773772 GW	03					
1100147-23-2	191 01	6.00 02	115	600	402290	774718 GW	03					
1100147-23-3	191 01	9.63 02	103	1000	401547	775782 GW	03					
1100147-23-4	191 01	9.63 02	103	1000	401288	775819 GW	03					
1100147-24-1	191 01	8.00 02	99	800	410818	772720 GW	03					
1100147-24-2	191 01	8.00 02	105	800	410401	774748 GW	03					
1100147-25-1	191 01	8.00 02	58	800	410674	766621 GW	01					
1100147-25-2	191 01	8.00 02	92	800	409634	769379 GW	03					
1100147-25-3	191 01	8.00 02	94	800	408702	769820 GW	03					
1100147-25-4	191 01	8.00 02	99	800	407139	768688 GW	03					
1100147-26-1	191 01	6.00 02	81	600	405397	769318 GW	03					
1100147-26-2	191 01	8.00 02	105	800	403111	769273 GW	03					
1100150	62.08	8.73 02	11	2	2	LAKEMOOD C.C		15	0.4	1	48	0.75
1100150-1	232 01	6.00 02	20	400	253238	650708 GW	01					
1100150-2	232 01	6.00 02	70	400	253323	649835 GW	03					
1100150-SW1	232 01	6.00	70	400	253398	650774 SW	01					
1100150-SW2	232 01	6.00	70	400	253431	649853 SW	01					
1100151	233.0	233.0 02	11	7	7	GULF COAST FARMS INC.		61	0.6	1	350	0.75
1100151-1	202 01	8.00 02	30	800	253401	720960 GW	01					
1100151-2	203 01	8.00 02	30	800	254318	720013 GW	01					
1100151-3	203 01	8.00 02	30	800	254923	721264 GW	01					
1100151-4	203 01	6.00 02	30	800	255311	717349 GW	01					
1100151-5	203 01	6.00 02	30	800	255422	716949 GW	01					
1100151-6	203 01	8.00 02	30	800	256103	716758 GW	01					
1100151-7	203 01	8.00 02	30	800	254337	717368 GW	01					
1100152	155.0	155.0 02	11	3	1	CRAIG HALL (HALL FARM)		61	0.8	1	200	0.50
1100152-1	203 01	10.00 02	48	600	260237	711158 GW	01	PRIMARY SOURCE OF IRRIGATION				

1100152-2	203 03	8.00 02	48	03	600	258682	706578 GW	01	FROM NEARBY DEWATERING OPERATION
1100152-3	203 03	8.00 02	48	03	600	258585	708240 GW	01	VIA 30"X16" FLASHBOARD
1100152-SW1	203 01	8.00 02	48	03	6000	260589	705739 SW	01	(HARPER BROS. PUT #1)
1100157		164.0 02	11 9/19	AG	5	MANATEE FRUIT CO.		60	0.4 1 272 0.50
1100157-1	202 01	6.00 02		03	700	248698	702630 GW	03	
1100157-2	202 01	8.00 02	60	03	700	248074	697420 GW	03	
1100157-3	202 01	8.00 02	60	03	700	249128	697623 GW	03	
1100157-4	202 01	8.00 02	60	03	1000	247488	698677 GW	03	
1100157-5	217 01	8.00 02		03	700	248065	695654 GW	03	
1100158	175.21	48.0 02	11 3/89	AG	5000	1 KENT MANLEY (MANLEY FARMS)		61	0.4 1 260 0.50
1100158-SW1	218 01			01		258810	677946 SW	01	
1100164	423.00	415.0 02	11 11/19	AG	19	HARVEY BROTHERS FARMS		61	0.4 1 900 0.50
1100164-27-1	203 01	8.00 02	60	03	800	269101	702221 GW	03	
1100164-27-2	203 01	8.00 02	60	03	800	270355	702097 GW	03	
1100164-27-3	203 01	8.00 02	60	03	800	270372	704077 GW	03	
1100164-27-4	203 01	8.00 02	60	03	800	270488	704867 GW	03	
1100164-28-1	203 04	8.00 02	60	03	800	268809	704418 GW	03	
1100164-28-2	203 01	8.00 02	60	03	600	268825	705406 GW	03	
1100164-28-3	203 01	8.00 02	60	03	600	267831	705050 GW	03	
1100164-33-1	218 01	8.00 02	60	03	600	265268	694966 GW	03	
1100164-33-2	218 01	8.00 02	60	03	600	265424	696070 GW	03	
1100164-33-3	218 01	8.00 02	60	03	600	264141	696743 GW	03	
1100164-33-4	218 01	8.00 02	60	03	600	267866	695450 GW	03	
1100164-33-5	218 01	8.00 02	60	03	600	268072	697114 GW	03	
1100164-33-6	203 01	8.00 02	60	03	600	266356	697749 GW	03	
1100164-33-7	203 01	8.00 02	60	03	600	266625	698541 GW	03	
1100164-33-8	203 01	8.00 02	60	03	600	266395	699136 GW	03	
1100164-33-9	203 01	8.00 02	60	03	600	267710	699563 GW	03	
1100164-33-10	203 01	8.00 02	60	03	600	264492	700231 GW	03	
1100164-34-1	218 01	8.00 02	60	03	600	270907	695348 GW	03	
1100164-34-2	218 01	8.00 02	60	03	600	273156	695385 GW	03	
1100167	220.00	63.20 02	11 5/80	LAN BOTH	2	2 WYNDEMERE HOLDING INC.		15	0.4 1 232 0.75
1100167-1	218 01	8.00 02		03	650	258067	674467 GW	01	
1100167-2	218 01	8.00 02		03	650	257778	674284 GW	01	
1100167-SW1	218 01			03	750	257370	674237 SW	01	
1100167-SW2	218 01			03	750	257370	674237 SW	01	
1100170	21.99	3.09 02	11 12/89	LAN BOTH	2	1 CAN-AMERICAN NAPLES LTD.		15	0.4 1 17 0.75
1100170-1	217 01	4.00 02	65	01	400	248404	687571 GW	03	
1100170-2	217 01	6.00 02	65	01	600	250500	687599 GW	03	
1100170-SW1	217 01			01	1000	249481	687573 SW	01	
1100171	74.80	93.0 02	11 1/80	AG	8	DIANE WILLIAMS		61	0.8 2 120 0.75
1100171-1	202 01	6.00 02	30	03	600	250087	718724 GW	01	
1100171-2	202 01	6.00 02	30	03	600	249565	718631 GW	01	
1100171-3	202 01	6.00 02	30	03	600	249016	718685 GW	01	
1100171-4	202 01	6.00 02	30	03	600	248872	718152 GW	01	
1100171-5	202 01	6.00 02	30	03	600	248951	717874 GW	01	
1100171-6	202 01	6.00 02	30	03	600	249227	717239 GW	01	
1100171-7	202 01	6.00 02	30	03	600	247972	717284 GW	01	
1100171-8	202 01	6.00 02	72	03	600	248689	716861 GW	03	

1100172	1100172-1	190 03	64.80	02	11	1.80	AG	GW	13	BERRY GROVES	350411	781729	GW	01	FREEZE PROTECTION ONLY	15	350	0.85
	1100172-2	190 03	10.00	02	90	70			200		351022	781758	GW	01	FREEZE PROTECTION ONLY			
	1100172-3	190 03	10.00	02	90	70			200		351568	781858	GW	01	FREEZE PROTECTION ONLY			
	1100172-4	190 03	10.00	02	90	78			200		350692	780717	GW	01	FREEZE PROTECTION ONLY			
	1100172-5	190 03	10.00	02	90	70			200		351913	780801	GW	01	FREEZE PROTECTION ONLY			
	1100172-6	190 03	10.00	02	90	70			200		350403	779439	GW	01	FREEZE PROTECTION ONLY			
	1100172-7	190 03	10.00	02	90	70			200		351381	779447	GW	01	FREEZE PROTECTION ONLY			
	1100172-8	190 03	10.00	02	90	70			200		351805	779407	GW	01	FREEZE PROTECTION ONLY			
	1100172-9	190 03	10.00	02	90	70			200		352206	779435	GW	01	FREEZE PROTECTION ONLY			
	1100172-10	190 01	8.00	02	200				500		349486	781054	GW	04				
	1100172-11	190 01	8.00	02	200				500		351337	781106	GW	04				
	1100172-12	190 01	8.00	02	200				500		349474	779672	GW	04				
	1100172-13	190 01	8.00	02	200				500		351534	779687	GW	04				
1100175	226.80	03	74.7	02	11	1/80	AG	BOTH	3	1	GEORGE A. SUTHERLAND (SAM FMS)		GW		61	0.4	3	95 0.50
	1100175-1	01	8.00					03	800				GW					
	1100175-2	01	6.00					03	500				GW					
	1100175-3	03	6.00					03	500				GW					
	1100175-SW1	01						03	3000				SW					
1100176	1100176-1	217 01	51.80	02	11	2/80	AG	GW	2		DONALD L. STONEBURNER				13	0.4	1	230 0.50
	1100176-2	217 01	8.00	02	65			02	600		253162	690464	GW	03				
			8.00	02	65			02	600		253205	689716	GW	03				
1100179	242.00	03	34.0	02	11	10/80	REC	GW	3		EAGLE CREEK PROPERTIES,				15	0.4	1	125 0.75
	1100179-1	233 02	6.00	02	45	35		03	200		266672	629375	GW	01	Three 8 ACRE LAKES-RECHARD			
	1100179-2	233 02	6.00	02	45	35		03	200		269122	629545	GW	01	BY WELLS-GW SOURCE			
	1100179-3	233 02	6.00	02	45	35		03	200		270297	629127	GW	01				
1100180	12.40	03	4.55	02	11	3/80	AG	GW	2		A.L. LEINWEBER (RAY WEST NRSRY)				70	0.8	1	18 0.20
	1100180-1	203 01	8.00	02	100	60		01	800		269100	706342	GW	03				
1100183	25.05	03	4.74	02	11	12/86	AG	GW	2		DHR, INC. (DCA PELICAN NURSERY)				70	0.8	1	37 0.20
	1100183-1	203 01	8.00	02	40	25		01	110		273770	708142	GW	01				
	1100183-2	203 02	8.00	02	110	80		02	110		273724	705803	GW	03				
1100184	174.00	03	259.0	02	11	4/80	AG	GW	5		GULF COAST FARM, INC.				60	0.8	1	300 0.50
	1100184-1	203 01	8.00					03	1200		263407	721124	GW	01	SHALLOW AQUIFER WELLS			
	1100184-2	203 02	8.00					03	1200		260907	721144	GW	01				
	1100184-3	203 02	8.00					03	1200		260944	719764	GW	01				
	1100184-4	203 02	8.00					03	1200		260962	717167	GW	01				
	1100184-5	203 02	8.00					03	1200		263432	716491	GW	01				
1100192	794.85	03	81.0	02	11	11/86	GLF	BOTH	2		1 MANCHESTER INVESTMENTS, INC.				15	0.8	1	680 0.75
	1100192-1	203 03	10.00	02	105	75		02	1000		261107	711056	GW	03	CONOWATCHEE SPOR CANAL(PRIMARY SOURCE)			
	1100192-2	203 03	10.00	02	105	80		02	1000		263328	711116	GW	03	L.TAM. AQUIFER(SECONDARY SOURCE)			
1100195	591.00	03	72.0	02	11	9/86	IND	GW	8000		1 NAPLES NORTH QUARRY				1			
	1100195-SW1	203 01						03			275674	701950	GW	01	MINING/DEWATERING OPERATIONS			
1100196	49.00	03	14.0	02	11	10/80	LAN	GW	1		MANCHESTER INVESTMENTS(SHWD PK)				15	0.4	1	50 0.50
	1100196-1	218 01	8.00	02	60	42		03	1000		270232	664004	GW	03				
1100199	56.20	03	21.60	02	11	1/81	AG	GW	1		MANLEY-KENT FARMS, INC.				61	0.4	1	120 0.50

1100199-1	217 01	8.00 02	03	500	253284 687836 GW 01	15 0.4 1	44 0.75
1100200	85.38	12.0 02	03	2	1 THE MOORINGS, INC.		
1100200-1	217 02	2.00 02	03	50	241268 681813 GW 03		
1100200-2	217 02	2.00 02	03	50	240561 679244 GW 03		
1100200-SW1	217 03	2.00 02	03	475	240866 681894 SW 01		
1100201	93.90	51.8 02	03	2	R. SMITS & SONS	13 0.4 1	120 0.50
1100201-1	233 01	8.00 02	03	600	281861 640641 GW 03		
1100201-2	233 01	8.00 02	03	600	283606 639157 GW 03		
1100203	23.90	19.8 02	03	1	DELBERT H. SANDERS	61 0.4 1	20 0.50
1100203						20 0.4 1	15 0.50
1100203-1	233 02	6.00	03	600	294835 642727 GW 01 SHALLOW AQUIFER WELLS		
1100206	58.44	8.70 02	03	2	2 BAY FOREST HOMEOWNERS ASSOC.	15 0.8 1	50 0.75
1100206-1	202 01	8.00 02	01	800	230886 719134 GW 01		
1100206-2	202 01	8.00 02	01	800	230718 718507 GW 01		
1100206-SW1	202 01	8.00 02	01	200	231026 719162 SW 01		
1100206-SW2	202 01		01	200	230907 718638 SW 01		
1100207	19.50	32.7 02	03	2	J. & N FARMS	61 0.4 1	42 0.50
1100207-1	233 02	8.00 02	02	1300	287135 619090 GW 01		
1100207-2	233 02	8.00 02	02	1300	287667 617768 GW 01		
1100210	70.10	9.87 02	03	10	3 WHISPERING PINES(WINDSTAR)	15 0.4 1	54 0.75
1100210-1	232 02	4.00 02	01	80	246041 647500 GW 03		
1100210-2	232 02	4.00 02	01	80	246281 647564 GW 03		
1100210-3	232 02	4.00 02	01	80	246570 647560 GW 03		
1100210-4	232 02	4.00 02	01	80	246858 647560 GW 03		
1100210-5	232 02	4.00 02	01	80	247110 647560 GW 03		
1100210-6	232 02	4.00 02	01	80	246053 647208 GW 03		
1100210-7	232 02	4.00 02	01	80	246285 647192 GW 03		
1100210-8	232 02	4.00 02	01	80	246529 647176 GW 03		
1100210-9	232 02	4.00 02	01	80	246854 647168 GW 03		
1100210-10	232 02	4.00 02	01	80	247126 647176 GW 03		
1100210-SW1	232 02		01	750	244388 647205 SW 01 ALL SW PUMPS ARE LOCATED IN		
1100210-SW2	232 02		01	750	244394 647205 SW 01 A SINGLE PUMPING FACILITY		
1100210-SW3	232 02		01	500	244398 647205 SW 01 PERMIT MAY HAVE EXPIRED 6/86		
1100214	152.00	130.0 02	03	10	2 CHRIS SNAPP	13 0.8 26	240 0.50
1100214-1	206 01	8.00 02	03	800	402343 715753 GW 03		
1100214-2	206 01	8.00 02	03	800	401697 715746 GW 03		
1100214-3	206 01	8.00 02	03	800	401100 716171 GW 03		
1100214-4	206 01	8.00 02	03	800	401110 717454 GW 03		
1100214-5	206 01	8.00 02	03	800	401856 717694 GW 03		
1100214-6	206 01	8.00 02	03	800	404221 717811 GW 03		
1100214-7	206 01	8.00 02	03	800	404565 717045 GW 03		
1100214-8	206 01	8.00 02	03	800	406302 717940 GW 03		
1100214-9	206 01	8.00 02	03	800	406299 718750 GW 03		
1100214-10	206 01	8.00 02	03	800	405085 718756 GW 03		
1100214-SW1	206 01	8.00 02	03	16000	403458 716585 SW 01		
1100214-SW2	206 01		03	16000	403807 716785 SW 01		
1100215		374.0 02	03	10	ESTATE OF BARRON COLLIER	61 0.8 1	482 0.50
1100215-522	188 01	8.00	03	800	294451 757646 GW 01		

1100215-523	188 01	8.00	72	44	11 3/87	AG	GW	81	BARRON COLLIER CO. (SVR STRD SO)	12 0.4 19	0.4 19	975 0.50
1100215-524	188 01	8.00	73	46			01	1000	348438	722769	GW	01
1100215-525	188 01	8.00	75	47			02	800	352903	722376	GW	01
1100215-526	188 01	8.00	59	42			03	1000	351742	721394	GW	01
1100215-527	188 01	8.00	68	44			03	500	351366	719858	GW	01
1100215-528	188 01	8.00	78	48			03	900	351617	719067	GW	01
1100215-529	188 01	9.00	76	55			03	600	357152	723026	GW	01
1100215-1	188 02	6.00	75	46			03	1000	355944	721656	GW	01
1100215-2	188 02	6.00	71	43			02	900	356715	721386	GW	01
			73	48			03	600	356005	720670	GW	01
			69	46			03	900	354495	718637	GW	01
			66	42			02	800	359768	722822	GW	01
			64	42			02	900	362787	723057	GW	01
			66	41			03	900	361873	722499	GW	01
			72	43			02	1000	359895	721651	GW	01
			68	45			02	1000	361008	720862	GW	01
			67	43			03	900	360143	720451	GW	01
			66	44			03	900	359920	720100	GW	01
			66	44			03	800	358823	719708	GW	01
			67	43			02	1000	363520	719665	GW	01
			200	100			03	800	358871	718581	GW	01
			74	52			02	1000	361138	717903	GW	03
			72	62			03	800	358706	715781	GW	01
			200	100			02	800	360686	715851	GW	01
			71	49			02	1000	361154	715719	GW	03
			73	50			02	800	359375	715131	GW	01
			66	46			03	400	360196	715137	GW	01
			80	40			02	800	362765	715126	GW	01
			73	48			03	1000	360251	714387	GW	01
			200	100			02	800	361269	714436	GW	01
			68	47			03	800	360931	714206	GW	03
			71	41			02	900	361729	714236	GW	01
			80	50			02	1300	361751	714547	GW	01
			80	50			02	1300	353530	717678	GW	01
			80	50			02	1300	354099	717670	GW	01
			80	50			02	1300	354748	717625	GW	01
			80	50			02	1300	354422	717649	GW	01
			80	50			02	1300	355990	717600	GW	01
			80	50			02	1300	356668	717595	GW	01
			80	50			02	1300	357249	717599	GW	01
			80	50			02	1300	357798	717611	GW	01
			80	50			02	1300	358394	716998	GW	01
			80	50			02	1300	353408	716233	GW	01
			80	50			02	1300	354301	716246	GW	01
			80	50			02	1300	354846	716198	GW	01
			80	50			02	1300				

1100216-17-13	205 01	13.00	02	80	50	02	1300	355411	716250	GW	01
1100216-17-14	205 01	13.00	02	80	50	02	1300	356036	716189	GW	01
1100216-17-15	205 01	13.00	02	80	50	02	1300	356710	716224	GW	01
1100216-17-16	205 01	13.00	02	80	50	02	1300	357299	716196	GW	01
1100216-17-17	205 01	13.00	02	80	50	02	1300	357944	716179	GW	01
1100216-17-18	205 01	13.00	02	80	50	02	1300	353425	714846	GW	01
1100216-17-19	205 01	13.00	02	80	50	02	1300	354251	714820	GW	01
1100216-17-20	205 01	13.00	02	80	50	02	1300	354824	714852	GW	01
1100216-17-21	205 01	13.00	02	80	50	02	1300	355461	714847	GW	01
1100216-17-22	205 01	13.00	02	80	50	02	1300	356006	714855	GW	01
1100216-17-23	205 01	13.00	02	80	50	02	1300	356660	714890	GW	01
1100216-17-24	205 01	13.00	02	80	50	02	1300	357297	714898	GW	01
1100216-17-25	205 01	13.00	02	80	50	02	1300	357894	714857	GW	01
1100216-17-26	205 01	13.00	02	80	50	02	1300	358410	714124	GW	01
1100216-17-27	205 01	13.00	02	80	50	02	1300	353484	713523	GW	01
1100216-17-28	205 01	13.00	02	80	50	02	1300	354177	713470	GW	01
1100216-17-29	205 01	13.00	02	80	50	02	1300	354862	713457	GW	01
1100216-17-30	205 01	13.00	02	80	50	02	1300	355644	713471	GW	01
1100216-17-31	205 01	13.00	02	80	50	02	1300	356325	713534	GW	01
1100216-17-32	205 01	13.00	02	80	50	02	1300	357038	713501	GW	01
1100216-17-33	205 01	13.00	02	80	50	02	1300	357644	713513	GW	01
1100216-17-34	205 01	13.00	02	80	50	02	1300	358213	713500	GW	01
1100216-18-1A	205 04	9.00	02	67	42	03	900	351931	715478	GW	01
1100216-18-2A	205 01	8.00	02	71	45	02	800	348589	714909	GW	01
1100216-18-3A	205 01	8.00	02	69	42	01	800	349156	713559	GW	01
1100216-18-4	205 01	13.00	02	80	50	02	1380	351116	717468	GW	01
1100216-18-5	205 01	13.00	02	80	50	02	1380	351613	717456	GW	01
1100216-18-6	205 01	13.00	02	80	50	02	1380	352876	717587	GW	01
1100216-18-7	205 01	13.00	02	80	50	02	1380	351062	716117	GW	01
1100216-18-8	205 01	13.00	02	80	50	02	1380	351740	716181	GW	01
1100216-18-9	205 01	13.00	02	250	100	02	1200	352914	716196	GW	01
1100216-18-10	205 01	13.00	02	80	50	02	1380	350860	714780	GW	01
1100216-18-11	205 01	13.00	02	80	50	02	1380	351850	714785	GW	01
1100216-18-12	205 01	13.00	02	80	50	02	1380	352828	714738	GW	01
1100216-18-13	205 01	13.00	02	80	50	02	1380	350914	713426	GW	01
1100216-18-14	205 01	13.00	02	80	50	02	1380	351736	713399	GW	01
1100216-18-15	205 01	13.00	02	80	50	02	1380	352886	713415	GW	01
1100217	03	52.4	02	11	1/88	AG	12	C. M. HEARTLAND			
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
1100220		3.13	02	11	3/82	LAN SW		2 NAPLES MEMORIAL GARDEN			
1100220-1	202 01					SW	600	231129	705477	SW	01
1100220-2	202 01					SW	200	233273	705341	SW	01
								15	0.4	1	12 0.75

1100221	121.28	03	34.14	02	11	3/82	LAN GW	1	1200	US HOME CORPORATION(FOXFIRE) 255257 659603 GW	15	0.4	1	125	0.75
1100221-1		218 02	10.00							03 WITHDRAWAL FROM L. TAMAMI TO RECHARGE LAKE SYSTEM	60	0.4	1	60	0.75
1100222	41.20	03	15.3	02	11	3/82	AG BOTH	2	600	3 STAHELMANN & SONS NURSERY	60	0.4	1	60	0.75
1100222-1		217 01	6.00 02	60	50			03	600	245640 685637 GW					
1100222-2		217 03	6.00 02	60	50			03	600	246473 684999 GW					
1100222-SW1		217 01						03	600	245517 685017 SW					
1100222-SW2		217 01						03	600	245521 685009 SW					
1100222-SW3		217 01						03	65	245538 684845 SW					
1100223			302.0	02	11	3/84	AG GW	7	1000	THE COLLIER COMPANY	61	0.4	26	490	0.50
1100223-3		221 01	6.00 02	70					1000	385030 687000 GW					
1100223-4		221 01	6.00 02	70					1000	385060 687000 GW					
1100223-5		221 01	6.00 02	70					1000	385090 687000 GW					
1100223-6		221 01	6.00 02	70					1000	385120 687000 GW					
1100223-7		221 01	6.00 02	70					1000	385150 687000 GW					
1100223-8		221 01	6.00 02	70					1000	385180 687000 GW					
1100223-9		221 01	8.00 02	70					1000	385210 687000 GW					
1100224			15.0	02	11	4/82	LAN BOTH	2	300	2 QUAIL RUN COUNTRY CLUB	15	0.4	1	55	0.75
1100224-1		217 01	6.00 02	26	22			03	300	245631 682226 GW					
1100224-2		217 01	6.00 02	18	14			03	125	243458 682641 GW					
1100224-SW1		217 01						03	300	245631 682226 SW					
1100224-SW2		217 01						03	300	243462 682657 SW					
1100233	2304.36	03	848.13	02	11	9/87	AG GW	35	800	BARRON COLLIER SILVER STRD DIV	13	0.8	15	5010	0.85
1100233-1		190 01	10.00 02	190	130				800	364189 786355 GW					
1100233-2		190 01	10.00 02	190	130				800	365869 786048 GW					
1100233-3		190 02	12.00 02	300	200				800	367548 786275 GW					
1100233-4		190 01	10.00 02	190	130				800	370309 786280 GW					
1100233-5		190 02	12.00 02	300	200				800	370609 782450 GW					
1100233-6		190 01	10.00 02	185	130				800	369180 783422 GW					
1100233-7		190 01	12.00 02	300	200				800	366018 783609 GW					
1100233-8		190 01	10.00 02	185	130				800	364556 783323 GW					
1100233-9		190 01	10.00 02	190	130				800	366071 780892 GW					
1100233-10		190 02	12.00 02	300	200				800	367156 780899 GW					
1100233-11		190 02	12.00 02	300	200				800	368542 778705 GW					
1100233-12		190 02	12.00 02	300	200				800	367441 777928 GW					
1100233-13		190 01	10.00 02	200	140				800	364594 778259 GW					
1100233-14		190 02	12.00 02	300	200				800	363246 777707 GW					
1100233-15		190 01	10.00 02	200	140				800	364522 775198 GW					
1100233-16		190 02	12.00 02	300	200				800	367044 775668 GW					
1100233-17		190 01	10.00 02	200	140				800	367027 772686 GW					
1100233-18		190 01	12.00 02	200	140				800	364802 772805 GW					
1100233-19		190 01	12.00 02	200	140				800	361763 772504 GW					
1100233-20		190 01	12.00 02	200	140				800	359066 772526 GW					
1100233-21		190 01	12.00 02	200	140				800	361467 775160 GW					
1100233-22		190 01	12.00 02	200	140				800	359204 776390 GW					
1100233-23		190 01	12.00 02	200	140				800	358516 779558 GW					
1100233-24		190 01	12.00 02	200	140				800	360922 779602 GW					
1100233-25		190 01	10.00 02	200	140				800	362734 780586 GW					
1100233-26		190 02	12.00 02	300	200				800	350096 781408 GW					
1100233-27		190 01	12.00 02	200	140				800	358609 783906 GW					
1100233-28		190 01	12.00 02	200	140				800	361287 783914 GW					
1100233-29		190 02	12.00 02	300	200				800	361078 786241 GW					

1100233-30	190 02	10.00 02	300	200	800	358644	786335	GW	04										
1100233-31	172 02	10.00 02	300	200	800	359819	789283	GW	04										
1100233-32	172 02	10.00 02	300	200	800	362748	789508	GW	04										
1100233-33	172 02	12.00 02	300	200	800	364608	789820	GW	04										
1100233-34	172 02	12.00 02	300	200	800	366821	789722	GW	04										
1100233-35	172 02	12.00 02	300	200	800	369305	789472	GW	04										
1100233-36	172 02	12.00 02	300	200	800	371329	790982	GW	04										
1100233-37	172 02	12.00 02	300	200	800	373152	791864	GW	04										
1100233-38	172 02	12.00 02	300	200	800	369561	792067	GW	04										
1100233-39	172 02	12.00 02	300	200	800	367478	792205	GW	04										
1100233-40	172 02	12.00 02	300	200	800	365703	791917	GW	04										
1100233-41	172 02	12.00 02	300	200	800	363485	792202	GW	04										
1100233-42	172 02	12.00 02	300	200	800	361045	791833	GW	04										
1100233-43	172 02	12.00 02	300	200	800	358684	791992	GW	04										
1100243	4.80	03	11 6/83	LAN	1	CMC DEVELOPMENT CORP.				15	0.4	1				6	0.50		
1100243-1	202 02	4.00 02	60	60	80	236961	697730	GW	03										
1100245	4.00	03	11 5/83	AG	1	SMALLWOOD LANDSCAPING				70	0.4	1				3	0.20		
1100245-1	217 01	8.00 02	65	63	500	247648	689933	GW	03										
1100250	190 01	5.3	11 9/83	AG	1	DAVID C. BROWN				13	0.8	15				50	0.85		
1100250-1	190 01	8.00 02	90		600	353150	782200	GW	01										
1100251	27.50	03	11 11/83	AG	1	TREES UNLIMITED CORP.				70	0.8	1				40	0.20		
1100251-1	189 01	8.00 02	60	60	600	304490	744397	GW	01										
1100251-2	189 01	2.00 02	60	60	72	304500	744363	GW	01										
1100256	1056.00.	02	11 12/83	IND	5000	1 MAC ASPHALT, INC. (GOLDEN GATE)													
1100256-SW1	219 01	01				299447	681432	SW	01 FROM ON SITE POND/MINING										
1100257	30.90	03	7.08	02	5	DOROTHY H. MCCONVILLE				70	0.8	1				5	0.20		
1100257-1	203 02	4.00 02	80	80	400	275587	705500	GW	01										
1100257-2	203 02	8.00 02	80	80	800	275596	705288	GW	01										
1100257-3	203 02	8.00 02	80	80	800	275144	705284	GW	01										
1100257-4	203 02	8.00 02	80	80	800	275136	705028	GW	01										
1100257-5	203 02	8.00 02	80	80	800	275592	705072	GW	01										
1100260	6.7	03	0.54	02	3	COMMUNITY SCHOOL OF NAPLES				15	0.8	1				3	0.75		
1100260-1	217 01	2.00 02	100	50	75			GW	03										
1100260-2	217 01	2.00 02	100	50	75			GW	03										
1100261	5152.44	03	912.04	02	68	COLLIER CO. (SILVER STRAND IV)				61	0.4	26				4436	0.50		
1100261-1	205 04	6.00			600	350747	732696	GW	01 BURIED										
1100261-2	205 03	8.00			800	351120	732698	GW	01										
1100261-3	205 03	8.00 02	36	36	800	352475	732213	GW	01										
1100261-4	205 03	8.00 02	78	64	800	354915	729487	GW	01										
1100261-5	205 04	6.00			600	355955	730021	GW	01 KNOCKED OVER										
1100261-6	205 01	8.00			800	357638	731374	GW	01										
1100261-7	205 04	3.00			300	359470	732965	GW	01 BURIED										
1100261-8	205 01	10.00			1000	360903	732008	GW	01										
1100261-9	205 03	3.00			300	361549	732236	GW	01										
1100261-10	205 01	8.00			800	361919	732474	GW	01										
1100261-11A	205 03	8.00 02	64	52	800	362111	729012	GW	01										
1100261-11	205 01	8.00			800	360807	729372	GW	01										

1100261-12	205 01	10.00	01	1000	360765	729048	GW	01
1100261-13	205 01	8.00	01	800	348921	727354	GW	01
1100261-14	205 01	8.00	01	800	349693	727185	GW	01
1100261-15	205 01	8.00	01	800	350562	727060	GW	01
1100261-16	205 03	6.00 02	87 63	01 600	351884	727802	GW	01
1100261-17	205 01	8.00	01	800	352541	727806	GW	01
1100261-18	205 03	8.00 02	85 62	01 800	352568	725490	GW	01
1100261-19	205 01	10.00	01	1000	354387	728244	GW	01
1100261-20	205 01	8.00	01	800	356574	728279	GW	01
1100261-21	205 01	8.00 02	100 60	02 1000	357687	728048	GW	01
1100261-22	205 01	10.00	01	1000	354544	726997	GW	01
1100261-23	205 01	8.00	01	1000	355780	727398	GW	01
1100261-24	205 01	10.00	01	1000	357102	727367	GW	01
1100261-25	205 01	8.00	01	800	355451	726615	GW	01
1100261-26	205 03	8.00 02	83 61	01 800	356148	726691	GW	01
1100261-27	205 03	8.00 02	72 54	01 800	356706	726772	GW	01
1100261-28	205 03	9.00 02	80 59	01 900	353533	726097	GW	01
1100261-29	205 03	8.00 02	77 66	01 800	355692	725412	GW	01
1100261-30	205 01	9.00	01	900	355366	723679	GW	01
1100261-31	205 03	6.00 02	75 61	01 600	358366	727008	GW	01
1100261-32	205 01	8.00	01	800	358441	726918	GW	01
1100261-33	205 03	8.00 02	88 62	01 800	358422	725748	GW	01
1100261-34	205 03	8.00	01	800	360281	725758	GW	01
1100261-35	205 01	8.00	04	600	361956	725788	GW	01
1100261-36	205 04	6.00	01	1000	358775	724356	GW	01
1100261-37	205 01	10.00	01	800	359245	723865	GW	01
1100261-38	205 01	8.00	01	900	361966	724001	GW	01
1100261-39	205 01	9.00	01	900	362901	723711	GW	01
1100261-40	205 01	9.00	01	900	342828	721837	GW	01
1100261-41	205 03	6.00 02	96 64	01 600	343617	721793	GW	01
1100261-42	205 01	9.00	01	900	344991	722466	GW	01
1100261-43	205 01	6.00	01	600	344724	720720	GW	01
1100261-44	205 01	10.00	01	1000	344528	720133	GW	01
1100261-45	205 01	6.00	04	600	345086	718207	GW	01
1100261-46	205 03	10.00	02 50	1000	357128	738700	GW	01
1100261-47	205 01	8.00 02	90 50	02 1000	357645	738168	GW	03
1100261-48	205 01	6.00 02	190	02 300	353555	737535	GW	01
1100261-49	205 01	8.00	01	800	355129	736648	GW	01
1100261-50	205 01	9.00 02	47 45	01 900	351204	738322	GW	01
1100261-51	205 01	8.00 02	140 100	01 800	351425	738292	GW	01
1100261-52	205 03	9.00 02	45 40	01 900	351835	737893	GW	01
1100261-53	205 03	9.00 02	52 50	01 900	349094	737076	GW	03
1100261-54	205 01	6.00 02	102 100	01 600	349063	736648	GW	01
1100261-55	205 03	6.00 02	26 21	01 600	350884	736978	GW	01
1100261-56	205 03	9.00 02	78 75	01 900	350878	736645	GW	03
1100261-57	205 03	13.00 02	160 90	02 1300	351777	736135	GW	03
1100261-58	205 03	9.00 02	93 90	01 900	352039	735140	GW	01
1100261-59	205 03	8.00 02	39 38	01 800	351425	734278	GW	03
1100261-60	205 01	8.00 02	140 100	02 800	350226	732719	GW	01
1100261-61	205 02	12.00 02	80 60	02 800	349440	731125	GW	01
1100261-62	205 02	12.00 02	80 60	02 800	352112	731742	GW	01
1100261-63	205 02	12.00 02	80 60	02 800	353728	729994	GW	01
1100261-64	205 02	12.00 02	80 60	02 800	354966	730055	GW	01
1100261-65	205 02	12.00 02	80 60	02 800	356328	730007	GW	01
1100261-66	205 02	12.00 02	80 60	02 800	357401	729945	GW	01
1100261-67	205 02	12.00 02	80 60	02 800	356724	732625	GW	01
1100261-68	205 02	12.00 02	80 60	02 800				

BURIED

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1100263-8	190 03	6.00 02	34	33	01	600	372331	748077	GW	01
1100263-9	190 03	6.00 02	37	36	01	600	372792	747228	GW	01
1100263-4	190 01	6.00 02			01	600	370236	750825	GW	01
1100263-5	190 03	6.00 02	19	19	01	600	371338	750228	GW	01
1100263-6	190 03	8.00 02	62	62	01	800	374130	749463	GW	01
1100263-1	190 03	6.00 02	43	39	01	600	369071	751446	GW	01
1100263-2	190 01	9.00 02	40	29	01	900	369395	750865	GW	01
1100263-3	190 01	9.00 02	39	28	01	900	369892	750509	GW	01
1100263-10	190 03	10.00 02	33	25	01	1000	373165	745786	GW	01
1100263-11	190 03	8.00 02	36	25	01	600	372315	745261	GW	01
1100263-12	190 03	6.00 02	28	25	01	600	371606	745305	GW	01
1100263-13	190 03	6.00 02	45	27	01	600	364993	747232	GW	01
1100263-14	190 03	6.00 02	33	25	01	600	367180	749804	GW	01
1100263-15	190 03	6.00 02	27	26	01	600	368265	748654	GW	01
1100263-16	190 03	6.00 02	36	33	01	600	368201	747340	GW	01
1100263-17	190 03	6.00 02	44	38	01	600	367645	746287	GW	01
1100263-18	190 01	8.00 02			01	800	373629	744492	GW	01
1100263-19	190 03	6.00 02	36	36	01	600	371919	742657	GW	01
1100263-20	190 01	8.00 02			01	800	373754	742729	GW	01
1100263-21	205 01	8.00 02	58	50	01	800	371227	741947	GW	01
1100263-22	205 01	6.00 02	52	48	01	600	371451	741416	GW	01
1100263-23	205 01	8.00 02			01	800	373007	740986	GW	01
1100263-24	205 03	10.00 02	52	41	01	1000	370741	739915	GW	01
1100263-25	205 01	8.00 02	50	49	01	800	367947	739044	GW	01
1100263-26	205 01	8.00 02	39	24	01	800	367290	738412	GW	01
1100263-27	205 03	8.00 02	28	27	01	800	366352	734793	GW	01
1100263-28	205 03	6.00 02	24	22	01	600	366933	734793	GW	01
1100263-29	190 01	8.00 02	35	34	01	800	365786	744304	GW	01
1100263-30	206 01	8.00 02	31	30	01	800	380767	740397	GW	01
1100263-31	206 01	8.00 02	41	40	01	800	383625	739892	GW	01
1100263-32	205 01	8.00 02	48	47	01	800	365236	741637	GW	01
1100263-33	205 01	8.00 02	41	40	01	800	368250	741954	GW	01
1100263-34	205 01	8.00 02		60	01	800	364988	740430	GW	01
1100263-35	205 01	8.00 02	76		01	800	367879	740287	GW	01
1100263-36	190 01	8.00 02			01	1000	374563	744316	GW	01
1100263-37	190 01	10.00 02			01	900	375732	742429	GW	01
1100263-38	205 01	6.00 02	46		01	600	375093	741384	GW	01
1100263-39	206 03	8.00 02	200	40	01	800	378210	740969	GW	01
1100263-40	190 02	10.00 02	200	200	02	800	368065	748305	GW	03
1100263-41	190 02	10.00 02	200	200	02	800	371262	749081	GW	03
1100263-42	190 02	10.00 02	200	200	02	800	373295	748734	GW	03
1100263-43	190 02	10.00 02	200	200	02	800	373798	746069	GW	03
1100263-44	190 02	10.00 02	200	200	02	800	371446	745727	GW	03
1100263-45	190 02	10.00 02	200	200	02	800	368070	747227	GW	03
1100263-46	190 02	10.00 02	200	200	02	800	366151	746332	GW	03
1100263-47	190 02	10.00 02	200	200	02	800	365997	743758	GW	03
1100263-48	190 02	10.00 02	200	200	02	800	368165	743532	GW	03
1100263-49	190 02	10.00 02	200	200	02	800	370526	743546	GW	03
1100263-50	190 02	10.00 02	200	200	02	800	373387	743813	GW	03
1100263-51	190 02	10.00 02	200	200	02	800	375488	743161	GW	03
1100263-52	206 02	10.00 02	200	200	02	800	377710	741470	GW	03
1100263-53	206 02	10.00 02	200	200	02	800	378814	740515	GW	03
1100263-54	205 02	10.00 02	200	200	02	800	375842	740990	GW	03
1100263-55	205 02	10.00 02	200	200	02	800	373474	740944	GW	03
1100263-56	205 02	10.00 02	200	200	02	800	371047	741054	GW	03
1100263-57	205 02	10.00 02	200	200	02	800	369067	740874	GW	03

[illegible]

1100319	44.92	03	8.49	02	11	3/87	AG	GW	5	BUCKLEY & SONS	70	0.4	1	16	0.20
		217 01	6.00	02	40	30	02	02	250	247563 692405 GW 01					
		217 01	6.00	02	40	30	02	02	300	247543 692629 GW 01					
		217 04	2.00	02	60	30	01	01	40	247437 691569 GW 01					
		217 04	2.00	02	60	30	01	01	40	247313 691548 GW 01					
		217 02	8.00	02	40	30	02	02	250	247649 691117 GW 01					
1100320	23.00	03	8.45	02	11	7/85	AG	GW	5	COLLIER ENTERPRISES (NURSERY)	13	0.8	26	47	0.70
		206 01	12.00	02	90		02	02	1400	384511 736520 GW 03					
		206 01	12.00	02	90		02	02	1400	384570 735718 GW 03					
		206 01	12.00	02	90		02	02	1400	385317 736487 GW 03					
		206 01	12.00	02	90		02	02	1400	384567 736079 GW 03					
		206 02	12.00	02	80		02	02	1355	382840 737295 GW 03					
1100321	533.27	02	533.27	02	11	7/85	AG	GW	28	COLLIER ENTERPRISES	61	1.5	26	2698	0.50
		206 01	6.00	02					600	390320 739833 GW 01					
		206 01	6.00	02					600	408301 738672 GW 01					
		206 01	8.00	02					800	407642 737839 GW 01					
		206 01	8.00	02					800	408935 737413 GW 01					
		206 01	6.00	02					600	408602 736773 GW 01					
		206 01	6.00	02					600	404943 736238 GW 01					
		206 01	8.00	02					800	401236 736289 GW 01					
		206 01	8.00	02					600	400816 738106 GW 01					
		206 01	8.00	02					800	399016 738024 GW 01					
		206 01	6.00	02					600	395743 737340 GW 01					
		206 01	6.00	02					800	395286 737248 GW 01					
		206 01	6.00	02					600	380367 738448 GW 01					
		206 01	8.00	02					800	383614 738787 GW 01					
		206 01	6.00	02					600	384330 739336 GW 01					
		206 01	6.00	02					800	384839 738537 GW 01					
		206 01	8.00	02					600	379525 734143 GW 01					
		206 01	8.00	02					800	383051 734142 GW 01					
		206 01	6.00	02					600	384328 734028 GW 01					
		206 01	6.00	02					800	384339 729297 GW 01					
		206 01	6.00	02					600	385376 729770 GW 01					
		206 01	8.00	02					800	385899 730301 GW 01					
		206 01	6.00	02					600	390029 729503 GW 01					
		191 01	8.00	02					800	386128 747440 GW 01					
		191 01	8.00	02					800	385866 746764 GW 01					
		191 01	8.00	02					800	384727 744953 GW 01					
		191 01	8.00	02					800	385244 744927 GW 01					
		191 01	8.00	02					800	387086 747674 GW 01					
		191 01	10.00	02					1000	388020 743264 GW 01					
1100322	9.79	03	2.52	02	11	6/88	IND	GW	2	TOLLES READY-MIX, INC.	1				
		217 01	4.00	02	245	200	40	02	80	243741 687090 GW 03					
		217 01	6.00	02	25	18	18	02	40	243733 687206 GW 01					
1100323	82.33	03	30.3	02	11	12/89	AG	GW	2	EAGLE ISLAND LTD.	13	0.4	2	179	0.85
		189 01	12.00	02	105	60	50	02	1500	308748 745839 GW 03					
		189 02	12.00	02	110	60	50	02	1500	309922 745665 GW 03					
1100324	127.63	03	37.86	02	11	6/87	AG	GW	4	TROYER BROTHERS, INC.	61	0.8	1	103	0.50
		189 04	8.00	02	100	70	03	03	1	306503 746691 GW 03					
		189 04	8.00	02	100	70	03	03	1	306137 746490 GW 03					

1100327	1100324-2A	189 02	10.00 02	250	150	02	1200	306127	745855 GW	04	2 WILLOW RUN EXCAVATION PIT SW 01 FACILITIES CONTAIN 2 SW PUMPS SW 01 WITHDRAWALS ARE FROM GW SOURCES
1100327	1100324-2B	189 01	10.00 02	300	120	02	1200	305977	744684 GW	04	
1100327	960.00	03	28.8	01	11 6/87	IND SW	12000				
1100327	1100327-SW1	01				02	8000				
1100327	1100327-SW2	02				02					
1100328	2.59	03	.36	02	11 11/85	LAN GW	3				
1100328	1100328-1	233 02	2.00 02	60	48	01	48	255295	646892 GW	03	
1100328	1100328-2	233 02	2.00 02	60	48	01	48	255110	647114 GW	03	
1100328	1100328-3	233 02	2.00 02	60	48	01	48	255029	647415 GW	03	
1100330	5.17	03	.72	02	11 11/85	LAN GW	1				
1100330	1100330-1	218 02	6.00 02	100	60	02	70	279818	689089 GW	03	
1100332	12.93	03	1.83	02	11 12/85	REC GW	1				
1100332	1100332-1	202 02	6.00 02	40	30	01	90	242745	703726 GW	01	
1100333	12.93	03	1.83	02	11 12/85	REC GW	1				
1100333	1100333-1	218 02	6.00 02	40	25	01	90	264878	667583 GW	01	
1100335	4.17	03	1.53	02	11 12/85	AG GW	1				
1100335	1100335-A	218 02	8.00 02	50	30	03	120	A. STOCKTON KENFROE			
1100336	206.95	03	29.13	02	11 12/85	GLF GW	2	256466	690314 GW	01	
1100336	1100336-2	233 01	10.00 02	18	17	03	700	ROYAL PALM COUNTRY CLUB			
1100336	1100336-4	233 01	10.00 02	22	20	03	700	260715	642344 GW	01	
1100337	4.75	03	.54	02	11 12/85	AG GW	2	261587	645080 GW	01	
1100337	1100337-1	189 01	2.00 02	85		03	40	HOWARD MAYE			
1100337	1100337-2	189 02	6.00 02	80	60	03	400	308783	743919 GW	03	
1100344	25.77	03	4.71	02	11 2/86	AG SW	190	309571	744436 GW	03	
1100344	1100344-SW1	202 01				03	120	4 AL SZABO			
1100344	1100344-SW2	202 01				03	35	236915	719876 SW	01	
1100344	1100344-SW3	202 01				03	35	236923	719872 SW	01	
1100344	1100344-SW4	202 01				03	35	236943	719908 SW	01	
1100349	119.00	03	16.7	02	11 4/86	GLF BOTH	1	236951	719920 SW	01	
1100349	1100349-1	218 01	10.00 02	59	40	02	700	1 U.S. HOME CORP. (BERKSHIRE LK)			
1100349	1100349-SW1	218 02				03	1800	263406	659021 GW	03	
1100350	31.96	03	4.5	02	11 5/86	AG SW	30	263406	659025 SW	01	
1100350	1100350-SW1	218 01				03	30	7 LAKE LOUISE, INC. (LOCH LOUISE)			
1100350	1100350-SW2	218 01				03	30	257131	653931 SW	01	
1100350	1100350-SW3	218 01				03	30	257395	653962 SW	01	
1100350	1100350-SW4	218 01				03	30	256913	653368 SW	01	
1100350	1100350-SW5	218 01				03	30	257658	653369 SW	01	
1100350	1100350-SW6	218 01				03	30	256953	652195 SW	01	
1100350	1100350-SW7	233 01				03	30	257626	652205 SW	01	
1100352	118.42	03	34.35	02	11 12/86	AG GW	5	257214	651468 SW	01	
1100352	1100352-1	204 01	6.00 02	80	60	40 01	700	JAMES D. HULL			
1100352	1100352-2	204 01	8.00 02	20	18	10 01	700	304910	723617 GW	03	
								304299	726700 GW	01	

1100352-3	204 01	8.00 02	80	40	20 01	700	303756	724532 GW	03
1100352-4	204 01	8.00 02	20	18	01	125	304490	733677 GW	01
1100352-5	204 03	10.00 02	80	60	01	750	303977	733639 GW	03
1100354		59.76 02	11	6/86	AG GW	4	JAMES E. WILLIAMS		13 0.8 26 353 0.85
1100354-AD	206 01	8.00 02	60	40		1000	410387	718607 GW	03
1100354-AD	206 01	8.00 02	60	40		1000	408126	718457 GW	03
1100354-AD	206 01	8.00 02	60	40		1000	407687	717040 GW	03
1100354-AD	206 01	8.00 02	60	40		1000	409732	717528 GW	03
1100356	6740.00 03	21.6 01	11	7/86	IND GW	5000	3 BERKSHIRE LAKES		1
1100356-1	218 02					5000	263168	661994 SW	01 MINING/DEWATERING OPERATIONS
1100356-2	218 02					5000	263195	659433 SW	01
1100356-3	218 02					5000	263221	657513 SW	01
1100358	3.63 03	.61 02	11	7/86	REC GW	1	THE SANCTUARY AT PELICAN BAY		1
1100358-1	217 02	2.00 02	65	63 30	01	40	235995	686531 GW	03
1100359	98.80 03		11	9/86	IND GW	3	GOLF COAST BEACH FRONT JOINT VENTURE		
1100359-1	217 02	4.00 02	25	15 20	01	190	233475	678046 GW	01 WITHDRAWAL FOR AIR CONDITIONING
1100359-2	217 02	4.00 02	25	15 20	01	190	233484	677982 GW	01 SUPPLY SYSTEM 3 AC SUPPLY WELL
1100359-3	217 02	4.00 02	25	15 20	01	190	233512	677926 GW	01 3 AC DISCHARGING WELLS
1100362	2.88 03	1.44 01	11	8/86	REC GW	1	SWAMP BUGGY DAYS, INC.		1
1100362-1	233 02	12.00 02	50	35 30	02	1000	278216	648071 GW	01 TWICE YEARLY WITHDRWL FLOODING RACETRACK
1100363	2547.68 03	937.69 02	11		AG GW	84	COLLIER ENTERPRISES		13 1.5 19 5539 0.85
1100363-A1	190 01	12.00 02	180	115 80	02	600	364107	762847 GW	03
1100363-A2	190 01	12.00 02	193	100 80	02	600	363254	764653 GW	03
1100363-A3	190 01	12.00 02	179	119 80	02	600	365694	764589 GW	03
1100363-A4	190 01	12.00 02	165	100 80	02	600	364388	765871 GW	03
1100363-A5	190 01	12.00 02	175	115 80	02	600	364680	766564 GW	03
1100363-A6	190 01	12.00 02	180	115 80	02	600	364664	768014 GW	03
1100363-A7	190 01	12.00 02	175	100 80	02	600	359092	769565 GW	03
1100363-A8	190 01	12.00 02	175	100 80	02	600	362789	769032 GW	03
1100363-A9	190 01	12.00 02	180	100 80	02	600	365630	769469 GW	03
1100363-A10	190 02	12.00 02	200	144 80	02	600	358050	770374 GW	03
1100363-A11	190 02	12.00 02	180	100 80	02	600	359108	771183 GW	03
1100363-A12	190 02	12.00 02	200	133 80	02	600	366226	771295 GW	03
1100363-B6	190 01	12.00 02	200	140 70	02	800	373056	771740 GW	03
1100363-B7	190 01	12.00 02	180	120 60	02	600	369716	770386 GW	03
1100363-B8	190 01	12.00 02	185	120 30	02	600	370957	770979 GW	03
1100363-B9	190 01	12.00 02	185	120 30	02	600	373028	770350 GW	03
1100363-B10	190 01	12.00 02	170	100 90	02	800	369571	769116 GW	03
1100363-B11	190 01	12.00 02	175	120 60	02	600	370973	769801 GW	03
1100363-B12	190 01	12.00 02	175	120 50	02	600	373069	769100 GW	03
1100363-B13	190 01	12.00 02	170	100 90	02	600	368197	767726 GW	03
1100363-B14	190 01	12.00 02	250	140 50	02	600	369623	767778 GW	03
1100363-B15	190 01	12.00 02	170	100 50	02	600	371042	768495 GW	03
1100363-B16	190 01	12.00 02	190	120 90	02	600	373077	767806 GW	03
1100363-C1	190 01	12.00 02	210	140 90	02	800	370449	777536 GW	03
1100363-C2	190 01	12.00 02	205	140 70	02	700	371038	776355 GW	03
1100363-C3	190 01	12.00 02	210	140 60	02	800	370601	775393 GW	03
1100363-C4	190 01	12.00 02	180	120 70	02	800	372536	775890 GW	03
1100363-C5	190 01	12.00 02	180	120 70	02	700	370605	774216 GW	03
1100363-C6	190 01	12.00 02	185	120 40	02	600	372540	774796 GW	03

1100363-C7	190 01	12.00 02	235	140 40 02	800	371558	773603 GW	03
1100363-C8	190 01	12.00 02	180	120 50 02	800	372516	773715 GW	03
1100363-B4	190 01	12.00 02	180	120 50 02	600	369684	771796 GW	03
1100363-B5	190 01	12.00 02	206	140 50 02	800	371694	772108 GW	03
1100363-D1	190 02	12.00 02	287	212 40 02	800	375316	774961 GW	04
1100363-D2	191 02	12.00 02	250	210 100 02	600	381163	773821 GW	04
1100363-D3	190 02	12.00 02	250	200 100 02	600	375320	773751 GW	04
1100363-D4	191 01	12.00 02	250	220 100 02	600	382421	771960 GW	04
1100363-D5	190 01	12.00 02	250	180 100 02	600	376333	771748 GW	04
1100363-E1	190 01	12.00 02	210	190 100 02	600	372331	782231 GW	04
1100363-E2	190 01	12.00 02	210	180 100 02	600	372211	780865 GW	04
1100363-E3	190 01	12.00 02	210	140 100 02	600	374899	780813 GW	04
1100363-E4	190 01	12.00 02	210	190 100 02	600	372512	779471 GW	04
1100363-E5	190 01	12.00 02	210	180 100 02	600	375144	779455 GW	04
1100363-E6	190 01	12.00 02	210	180 100 02	600	373097	777584 GW	04
1100363-E7	190 01	12.00 02	210	180 100 02	600	375120	777665 GW	04
1100363-E8	190 01	12.00 02	270	205 138 02	600	377163	777665 GW	04
1100363-3-17	191 03	10.00 02	200	100 138 02	455	380348	775194 GW	03
1100363-3-21	191 03	10.00 02	200	100 138 02	455	382089	773406 GW	03
1100363-3-23	191 02	10.00 02	200	100 138 02	350	380871	771968 GW	03
1100363-3-24	191 02	10.00 02	200	100 138 02	350	383700	771452 GW	03
1100363-3-25	191 02	10.00 02	200	100 138 02	350	386934	771319 GW	03
1100363-3-27	191 02	10.00 02	200	100 138 02	370	382342	770422 GW	03
1100363-3-28	191 02	10.00 02	200	100 138 02	370	378041	758942 GW	03
1100363-3-30	191 02	10.00 02	200	100 138 02	335	383292	768572 GW	03
1100363-3-32	191 02	10.00 02	200	100 138 02	395	383735	766998 GW	03
1100363-3-33	191 02	10.00 02	200	100 138 02	395	386142	766807 GW	03
1100363-4-1	190 02	10.00 02	240	140 138 02	390	376796	769366 GW	04
1100363-4-2	190 02	10.00 02	240	140 138 02	390	376504	768636 GW	04
1100363-4-3	191 02	10.00 02	240	140 138 02	390	378561	769231 GW	04
1100363-4-4	191 02	10.00 02	240	140 138 02	510	379329	766367 GW	04
1100363-4-5	191 02	10.00 02	240	140 138 02	510	381627	766303 GW	04
1100363-4-6	190 02	10.00 02	240	140 138 02	380	376655	765578 GW	04
1100363-4-7	190 02	10.00 02	240	140 138 02	480	376733	764288 GW	04
1100363-4-8	191 02	10.00 02	240	140 138 02	400	380493	763694 GW	04
1100363-4-9	191 02	10.00 02	240	140 138 02	400	382152	763905 GW	04
1100363-4-10	191 02	10.00 02	240	140 138 02	400	383655	764140 GW	04
1100363-4-11	191 02	10.00 02	240	140 138 02	520	377478	763312 GW	04
1100363-4-12	190 02	10.00 02	240	140 138 02	310	376317	763205 GW	04
1100363-4-13	191 02	10.00 02	240	140 138 02	310	379366	762869 GW	04
1100363-4-14	191 02	10.00 02	240	140 138 02	350	380524	762649 GW	04
1100363-4-15	191 02	10.00 02	240	140 138 02	350	382665	762596 GW	04
1100363-4-16	191 02	10.00 02	240	140 138 02	350	383844	762833 GW	04
1100363-4-17	190 02	10.00 02	240	140 138 02	310	371392	761397 GW	04
1100363-4-18	190 02	10.00 02	240	140 138 02	185	373472	761596 GW	04
1100363-4-19	190 02	10.00 02	240	140 138 02	350	376234	761758 GW	04
1100363-4-20	191 02	10.00 02	240	140 138 02	455	383877	761544 GW	04
1100363-4-21	190 02	10.00 02	240	140 138 02	350	370672	760307 GW	04
1100363-4-22	190 02	10.00 02	240	140 138 02	330	373361	760157 GW	04
1100363-4-23	191 02	10.00 02	240	140 138 02	520	379335	761024 GW	04
1100363-4-24	191 02	10.00 02	240	140 138 02	400	384024	760057 GW	04
1100363-4-25	190 02	10.00 02	240	140 138 02	390	371904	758813 GW	04
1100363-4-26	191 02	10.00 02	240	140 138 02	410	378041	758942 GW	04
1100363-4-27	191 02	10.00 02	240	140 138 02	410	381733	758624 GW	04
1100363-4-28	191 02	10.00 02	240	140 138 02	410	384021	758732 GW	04

1100365	1100365-1	205 01	691.22 02	11 9/86	AG	GW	46	PACIFIC LAND CO. (SOUTH RANCH)	61	0.8	1	3744 0.75
	1100365-2	205 01	12.00 02	100	63	02	1000	348065 707474 GW 03				
	1100365-3	205 01	12.00 02	100	80	02	1000	350672 709812 GW 03				
	1100365-4	205 01	8.00 02	70	50	02	1000	352353 712493 GW 01				
	1100365-5	205 01	8.00 02	80	60	02	1000	353325 712398 GW 01				
	1100365-6	205 01	12.00 02	95	70	02	1000	353254 711289 GW 01				
	1100365-7	205 01	8.00 02	80	60	02	1000	353318 710011 GW 01				
	1100365-8	205 01	12.00 02	87	44	02	800	348055 703568 GW 01				
	1100365-9	205 01	12.00 02	90	60	02	800	349497 702909 GW 01				
	1100365-10	205 01	12.00 02	104	60	02	800	350613 702093 GW 01				
	1100365-11	205 01	12.00 02	60	40	02	1000	350525 703223 GW 01				
	1100365-12	205 01	12.00 02	85	60	02	800	353140 703743 GW 01				
	1100365-13	205 01	12.00 02	160	140	02	400	352680 701999 GW 03				
	1100365-14	205 01	12.00 02	126	90	02	800	353731 702384 GW 03				
	1100365-15	205 01	12.00 02	118	87	02	800	353803 712567 GW 03				
	1100365-16	205 01	8.00 02	60	40	02	1000	356275 712583 GW 01				
	1100365-17	205 01	8.00 02	60	40	02	1000	357561 712602 GW 01				
	1100365-18	205 01	8.00 02	90	70	02	1000	358606 712611 GW 03				
	1100365-19	205 01	8.00 02	75	50	02	800	360013 712670 GW 01				
	1100365-20	205 01	8.00 02	77	62	02	800	361563 712680 GW 01				
	1100365-21	205 01	8.00 02	60	40	02	1000	363074 712762 GW 01				
	1100365-22	205 01	12.00 02	90	60	02	800	363361 711414 GW 01				
	1100365-23	205 01	12.00 02	80	60	02	1000	358405 709484 GW 03				
	1100365-24	205 01	12.00 02	200	120	02	800	356010 710017 GW 03				
	1100365-25	205 01	12.00 02	200	120	02	800	358724 703682 GW 03				
	1100365-26	205 02	12.00 02	60	40	03	800	358849 702723 GW 03				
	1100365-27	205 01	12.00 02	115	44	02	800	359572 701765 GW 01				
	1100365-28	205 01	12.00 02	115	44	02	800	363922 702241 GW 01				
	1100365-29	205 03	8.00 02	60	40	03	800	363919 700074 GW 01				
	1100365-30	205 03	8.00 02	60	40	03	800	364703 702248 GW 01				
	1100365-31S	205 03	8.00 02	55	40	03	800	359031 703779 GW 01				
	1100365-32S	205 04	8.00 02	60	40	03	1000	363519 700189 GW 01				
	1100365-33S	205 04	8.00 02	60	40	03	1000	352754 702291 GW 01				
	1100365-34S	205 03	8.00 02	70	50	03	800	351840 702209 GW 01				
	1100365-35S	205 04	8.00 02	70	45	03	800	349151 704486 GW 01				
	1100365-36S	205 04	8.00 02	150	80	02	800	358519 710954 GW 01				
	1100365-37	205 02	12.00 02	150	80	02	800	362256 712723 GW 01				
	1100365-38	205 02	12.00 02	150	80	02	800	358497 711747 GW 03				
	1100365-39	205 02	12.00 02	150	80	02	800	356129 711670 GW 03				
	1100365-40	205 02	12.00 02	150	80	02	800	350236 707383 GW 03				
	1100365-41	205 02	12.00 02	150	80	02	800	349894 704798 GW 03				
	1100365-42	205 02	12.00 02	150	80	02	800	363185 705307 GW 03				
	1100365-43	205 02	12.00 02	150	80	02	800	363075 703857 GW 03				
	1100365-44	205 02	12.00 02	150	80	02	800	361864 698201 GW 03				
	1100365-45	205 02	12.00 02	150	80	02	800	363206 698244 GW 03				
	1100365-46	205 02	12.00 02	150	80	02	800	359464 712662 GW 03				
1100367	318.00	03	1.36	11 9/86	AG	GW	1	RICHARD SHAW(S-R FARM)	61	0.8	2	9 0.75
	1100367-1	204 02	6.00 02	110	80 35	01	600	304634 739161 GW 03				
1100369	3.88	03	.57	11 10/86	LAN	GW	4	MEADOWOOD CLUB APARTMENT	15	0.4	1	3 0.75
	1100369-1	218 02	2.00 02	40	32	03	50	271294 674056 GW 03				
	1100369-2	218 02	2.00 02	40	32	03	50	272012 676054 GW 03				
	1100369-3	218 02	2.00 02	40	32	03	50	273014 676279 GW 03				
	1100369-4	218 02	2.00 02	40	32	03	50	273050 674042 GW 03				

1100372	57.45	03	10.05	02	11	11/86	LAN SW	1500	3	PORT OF THE ISLAND, INC.	15	3.6	27	85	0.85
1100372-SW1	248 01						01	1500		332494 591572 SW 01					
1100372-SW2	248 01						01	1500		332494 591572 SW 01					
1100372-SW3	248 01						01	1500		332494 591572 SW 01					
1100375	15.52	03	.723	01	11	1/87	GLF SW	250	1	A.W. COOK, JR.	15	0.4	1	12	0.75
1100375-SW1	218 01						03	250		266549 655877 SW 01					
1100376	234.9	02			11	1/87	AG GW	22		BARRON COLLIER COMPANY	15	0.4	2		90.50
1100376-1	206 01		9.00	02	40	45	01	900 N		386489 715070 GW 01					
1100376-2	206 01		6.00	02	80	30	02	600 N		386600 714135 GW 01					
1100376-3	206 03		8.00	02	70	51	01	800 N		383769 713281 GW 01					
1100376-4	206 03		8.00	02	36	30	01	800 N		383580 712740 GW 01					
1100376-5	206 03		9.00	02	36	32	01	900 N		383270 708400 GW 01					
1100376-6	206 03		6.00	02	33	30	01	600 N		382800 706800 GW 01					
1100376-7	206 02		10.00	02	80	45	02	1000 Y		384200 714400 GW 01					
1100376-8	206 02		10.00	02	80	45	02	1000 Y		385500 714410 GW 01					
1100376-9	206 02		10.00	02	80	45	02	1000 Y		382250 713180 GW 01					
1100376-10	206 02		10.00	02	80	45	02	1000 Y		384600 713200 GW 01					
1100376-11	206 02		10.00	02	80	45	02	1000 Y		380300 711710 GW 01					
1100376-12	206 02		10.00	02	80	45	02	1000 Y		381460 712060 GW 01					
1100376-13	206 02		10.00	02	80	45	02	1000 Y		380240 709450 GW 01					
1100376-14	206 02		10.00	02	80	45	02	1000 Y		383020 710630 GW 01					
1100376-15	206 02		10.00	02	80	45	02	1000 Y		383240 710230 GW 01					
1100376-16	206 02		10.00	02	80	45	02	1000 Y		384530 710200 GW 01					
1100376-17	206 02		10.00	02	80	45	02	1000 Y		380310 707840 GW 01					
1100376-18	206 02		10.00	02	80	45	02	1000 Y		381200 707840 GW 01					
1100376-19	206 02		10.00	02	80	45	02	1000 Y		384390 707860 GW 01					
1100376-20	206 02		10.00	02	80	45	02	1000 Y		385540 707890 GW 01					
1100376-21	206 02		10.00	02	80	45	02	1000 Y		384490 706890 GW 01					
1100376-22	206 02		10.00	02	80	45	02	1000 Y		383380 705120 GW 01					
1100377	48.64	03	6.84	02	11	1/87	LAN BOTH	12	12	U.S. HOME CORPORATION	15	0.8	1	38	0.75
1100377-A	218 02		4.00	02	40	25	01	80 01		263322 661490 GW 01					
1100377-B	218 02		4.00	02	40	25	01	80 01		263409 661229 GW 01					
1100377-C	218 02		4.00	02	40	25	01	80 01		263926 660359 GW 01					
1100377-D	218 02		4.00	02	40	25	01	80 01		264173 658658 GW 01					
1100377-E	218 02		4.00	02	40	25	01	80 01		264040 657680 GW 01					
1100377-F	218 02		4.00	02	40	25	01	80 01		263580 657111 GW 01					
1100377-G	218 02		4.00	02	40	25	01	80 01		262314 657812 GW 01					
1100377-H	218 02		4.00	02	40	25	01	80 01		262693 658959 GW 01					
1100377-I	218 02		4.00	02	40	25	01	80 01		262651 659303 GW 01					
1100377-J	218 02		4.00	02	40	25	01	80 01		262183 660653 GW 01					
1100377-K	218 02		4.00	02	40	25	01	80 01		262811 660763 GW 01					
1100377-L	218 02		4.00	02	40	25	01	80 01		262918 661447 GW 01					
1100377-SWA	218 02		4.00	02	40	25	01	80 01		263314 661490 SW 01					
1100377-SWB	218 02		4.00	02	40	25	01	80 01		263409 661225 SW 01					
1100377-SWC	218 02		4.00	02	40	25	01	80 01		263926 660355 SW 01					
1100377-SWD	218 02		4.00	02	40	25	01	80 01		264042 657678 SW 01					
1100377-SWE	218 02		4.00	02	40	25	01	80 01		264038 657674 SW 01					
1100377-SWF	218 02		4.00	02	40	25	01	80 01		263580 657111 SW 01					
1100377-SWG	218 02		4.00	02	40	25	01	80 01		262314 657816 SW 01					
1100377-SWH	218 02		4.00	02	40	25	01	80 01		262693 658959 SW 01					
1100377-SWI	218 02		4.00	02	40	25	01	80 01		262651 659311 SW 01					
1100377-SWJ	218 02		4.00	02	40	25	01	80 01		262203 660677 SW 01					
1100377-SWK	218 02		4.00	02	40	25	01	80 01		262811 660759 SW 01					

203

WELL NO.	WELL NAME	DATE	TIME	DEPTH	WELL TYPE	WELL STATUS	WELL LOCATION	WELL OWNER	WELL OPERATOR	WELL COMMENTS
1100415	49.43	03	6.96	02	11 9-87	LAN BOTH	1	4	LONE OAK, LTD.	15 0.4 1 37 0.75 20 0.4 1 1 0.75
1100415	1100415-1	217 01	6.00	02	01	01	150	249467	690189 GW	01
1100415	1100415-SW1	217 02			01	01	300	249326	688960 SW	01
1100415	1100415-SW2	217 02			01	01	300	250729	689047 SW	01
1100415	1100415-SW3	217 02			01	01	300	250699	690339 SW	01
1100415	1100415-SW4	217 02			01	01	300	249542	690733 SW	01
1100416	80.92	03	02	02	11 9-88	AG GW	2	NORTHROP KING CO.		61 0.4 1 58 0.50
1100416	1100416-2A	233 01	8.00	02	70 40 40 02	02	1200	286514	624628 GW	01
1100416	1100416-2B	233 02	8.00	02	70 40 40 01	01	1000	287134	624645 GW	01
1100419	158.78	03	0.6525	01	11 9-87	PWS GW	2	ORANGE TREE ASSOC.		
1100419	1100419-1	204 02	12.00	02	180 70 60 02	02	500	308907	712671 GW	03
1100419	1100419-2	204 02	12.00	02	180 70 60 02	02	500	307954	713652 GW	03
1100420	34.07	03	22.92	02	11 9-87	LAN SW	400	8 LONGSHORE LAKES JOINT VENTURE		15 0.8 1 30 0.75
1100420	1100420-1	203 02			02	02	200	261398	709247 SW	01
1100420	1100420-2	203 02			02	02	200	261398	709252 SW	01
1100420	1100420-3	203 02			02	02	500	263568	710864 SW	01
1100420	1100420-4	203 02			02	02	200	263568	710869 SW	01
1100420	1100420-5	203 02			02	02	400	263455	707317 SW	01
1100420	1100420-6	203 02			02	02	200	263455	707322 SW	01
1100420	1100420-7	203 02			02	02	300	261587	705835 SW	01
1100420	1100420-8	203 02			02	02	200	261587	705840 SW	01
1100422	29.75	03	4.41	02	11 10-87	LAN SW	275	1 JOSEPH D. BONNESS, JR, TRUSTEE		15 0.4 1 23 0.75
1100422	1100422-1	217 02			01	01	275	248291	692602 SW	01 (WITHDRL FR ON-SITE LAKE)
1100423	124.40	03	17.52	02	11 1-89	GLF BOTH	1	3 ELBA DEVELOPMENT CORP.		15 0.4 1 96 0.75
1100423	1100423-1	233 02	12.00	02	40	02	650	(ROYALWOOD GOLF CLUB)		
1100423	1100423-SW1	233 02			02	02	500	262156	646736 SW	01
1100423	1100423-SW2	233 02			02	02	500	263913	647385 SW	01
1100423	1100423-SW3	233 02			02	02	250	262551	648678 SW	01
1100424	7.88	03	0.864	02	11 10-87	IND GW	1	CENTRAL NAPLES TEXACO RECOVERY WELL, FOR UST		1
1100424	1100424-1	217 01	8.00	02	21 20	03	25	238808	663209 GW	01
1100428	3900.00	03			11 1-88	IND GW	14	LONGSHORE LAKE JOINT-VENTURE		1
1100428	1100428-SW1	203 01			01	01	5000	263289	710680 SW	01 MINING/DEWATERING OPERATION
1100428	1100428-SW2	203 01			01	01	5000	262941	710686 SW	0

1100449-1	218 02	2.00 02	73	68	50 01	72	264784	661965 GW	03		
1100449-2	218 02	2.00 02	73	68	50 01	72	264682	661233 GW	03		
1100449-3	218 02	2.00 02	73	68	50 01	72	264680	660661 GW	03		
1100449-4	218 02	2.00 02	73	68	50 01	72	264574	660113 GW	03		
1100449-SW1	218 01				03	81	264784	661961 SW	01		
1100449-SW2	218 01				03	81	264682	661225 SW	01		
1100449-SW3	218 01				03	81	264680	660669 SW	01		
1100449-SW4	218 01				03	81	264570	660097 SW	01		
1100451	116.00 03	22.89 02	11 6-88	AG	BOTH	2	1 HOBBSCHMAN & ASSOCIATES			61	0.4 1 103 0.50
1100451-1	233 01	8.00 02	40	30	01	600	265466	634432 GW	01		
1100451-2	233 01	8.00 02	40	30	01	600	266366	633765 GW	01		
1100451-SW1	233 02				03	2000	265919	634187 SW	01		
1100455	13.50 03	2.55 02	11 7-88	AG	GW	1	ROBERT E. DAVENPORT			70	1.5 1 5 0.20
1100455										70	1.5 1 3 0.20
1100455-1	218 02	4.00 02	80	70	01	130	274970	696943 GW	03	Davenport nursery	
1100459	8.15 03	1.14 02	11 9-88	LAN	GW	1	COLLIER CO., PUBLIC SCHOOLS			15	0.4 1 6 0.75
1100459-1	218 02	6.00 02	63	25	02	135	270892	671180 GW	01		
1100461	11.64 03	1.65 02	11 9-88	LAN	BOTH	1	1 BOCA CIEGA MANOR CONDOMINIUM			15	0.4 1 9 0.75
1100461-1	232 02	2.00 02	37	30	22 01	50	253621	646957 GW	01		
1100461-SW1	232 02				01	250	253737	647121 SW	01		
1100462	106.70 03	17.4 02	11 10-88	AG	GW	4	JAMES PUGH (INTERSCAPE INC.)			70	1.5 1 29 0.20
1100462-1	218 01	2.00 02	44	30	30 01	40	285296	678139 GW	01		
1100462-2	218 01	2.00 02	44	30	30 01	40	285291	678055 GW	01		
1100462-3	218 02	8.00 02	80	40	40 01	250	285281	677271 GW	03		
1100462-4	218 02	8.00 02	80	40	40 01	250	284997	677256 GW	03		
1100463	8.50 03	1.2 02	11 10-88	LAN	SW	2	PINE RIDGE ASSOC. II, LTD.			15	0.4 1 7 0.75
1100463-PS1	217 02				01	80	248776	683424 SW	01		
1100463-PS2	217 02				01	80	248771	683996 SW	01		
1100464	7.24 03	1.02 02	11 10-88	LAN	SW		2 PINE RIDGE ASSOC. I, LTD.			15	0.4 1 6 0.75
1100464-PS1	217 02				01	80	248768	683404 SW	01		
1100464-PS2	217 02				01	80	248755	683996 SW	01		
1100466	14.84 03	2.1 02	11 11-88	AG	GW	2	BEN WALKER			15	0.4 1 5 0.75
1100466-1	218 02	2.00 02	60	40	01	70	288542	672327 GW	01		
1100466-2	218 02	2.00 02	60	40	01	70	288497	672099 GW	01		
1100469	6.72 03	0.81 02	11 11-88	AG	GW	2	M. ROY BATTY			13	1.5 1 3 0.20
1100469-1	218 01	2.00 02	20	15	03	100	287196	671959 GW	01		
1100469-2	218 02	4.00 02	30	25	01		287157	672095 GW	01		
1100470	368.58 03	51.9 02	11 5-89	GLF	BOTH	6	2 MICHAEL & JOE PROCACCI			15	0.4 1 285 0.75
1100470-1	218 03	10.00 02	80	50	60 02	500	259119	685383 GW	03	WEILL USED TO BACK-UP SURFACE SUPPLY	
1100470-2	218 03	10.00 02	80	50	60 02	500	259138	686404 GW	03	Vineyards of Naples	
1100470-3	218 03	10.00 02	80	50	60 02	500	259112	687120 GW	03		
1100470-4	218 03	10.00 02	80	50	60 02	500	259050	687796 GW	03		
1100470-5	218 03	10.00 02	80	50	60 02	500	259041	688417 GW	03		
1100470-6	218 03	10.00 02	80	50	60 02	500	259010	689017 GW	03		
1100470-SW1	218 01				02	11000	259213	683538 SW	01		
1100470-SW2	218 01				02	11000	258927	690306 SW	01		

1100472	24.53	03	4.23	02	11	12-88	AG	GW	2	THE GARDEN STATE	70	1.5	1	5 0.20
1100472		203 02	8.00	02	100	70	60	02	255	289526 705539 GW	70	1.5	1	6 0.20
1100472-1		203 02	4.00	02	100	70	60	02	60	289508 705639 GW	03 (FOUR J'S NURSERY)			
1100472-2														
1100474	67.25	03	9.48	02	11	12-88	GLF BOTH	2	2	LEISURE TECHNOLOGY (BRETTONE PK)	15	0.4	1	52 0.75
1100474-1		218 02	8.00	02	60	45	30	02		260290 660439 GW	01			
1100474-2		218 02	8.00	02	60	45	30	02		260171 659551 GW	01			
1100474-SW1		218 02	8.00	02					3500	260732 661286 SW	01			
1100474-SW2		218 02							3500	259841 661501 SW	01			
1100475	87.94	03	12.39	02	11	12-88	LAN BOTH	2	2	LEISURE TECHNOLOGY (BRETTONE PK)	15	0.4	1	68 0.75
1100475-1		218 02	8.00	02	60	45		03		260286 660443 GW	01			
1100475-2		218 02	8.00	02	60	45		03		260207 659539 GW	01			
1100475-SW1		218 02	8.00	02					3500	260716 661282 SW	01			
1100475-SW2		218 02							3500	259845 661489 SW	01			
1100476	89.69	03	33.01	02	11	12-88	AG	GW	2	BOWEN BROTHERS, INC. (BOWEN BROS.)	13	0.8	19	195 0.85
1100476-1		190 01	8.00	02	200	140		02	600	351434 775288 GW	03			
1100476-2		190 01	8.00	02	200	140		02	600	350556 775251 GW	03			
1100477	12.38	03	1.83	02	11	12-88	AG	GW	3	COLLIER DEVELOPMENT CORP.	70	0.8	1	12 0.20
1100477-1		202 02	8.00	02	40	20	20	01	150	239848 706996 GW	01 Owl Hammock Tree			
1100477-2		202 02	8.00	02	40	20	20	01	150	239190 706731 GW	01			
1100477-3		202 02	8.00	02	40	20	20	01	150	239013 707393 GW	01			
1100478	508.64	03	149.7	02	11	12-88	LAN	GW	6	MICHAEL & JOSEPH PROCACCI	15	0.4	1	394 0.75
1100478-1		218 01	10.00	02	80	50		02	500	259123 685579 GW	03			
1100478-2		218 01	10.00	02	80	50		02	500	259142 686412 GW	03			
1100478-3		218 01	10.00	02	80	50		02	500	259112 687112 GW	03			
1100478-4		218 01	10.00	02	80	50		02	500	259042 687796 GW	03			
1100478-5		218 01	10.00	02	80	50		02	500	259049 688421 GW	03			
1100478-6		218 01	10.00	02	80	50		02	500	259006 689029 GW	03			
1100479	29.10	03	3.24	02	11	1-89	AG	GW	1	NANCE NURSERY, INC.	70	0.4	1	6 0.20
1100479-1		219 02	4.00	02	95	85	80	02	75	302270 683347 GW	03			
1100480	14.90	03	6.72	02	11	1-89	AG	GW	1	ELVIN ENGLE (BEST WAY FARMS)	60	0.4	1	40 0.50
1100480-1		204 01	10.00	02	60	40		01	1500	308568 723491 GW	03			
1100483	20.64	03	9.18	02	11	1-89	AG	GW	1	JOANNA G. WOOD	60	0.4	1	38 0.50
1100483-1		203 02	8.00	02	45	15		03	2000	269881 705393 GW	01			
1100516	29.10	03	4.11	02	11	3-89	AG	GW	2	SQUARE ISLAND LANDSCAPING	70	0.4	1	6 0.20
1100516-1		233 01	6.00	02	45	45	45	01	1000	275515 641033 GW	01			
1100516-2		233 03	2.00	02	45	45	45	01	35	275395 641023 GW	01			
1100516-3		233 04	2.00	02	45	45	45	01	35	275395 641045 GW	01			
1100522	11.84	03	1.68	02	11	3-89	AG	GW	2	BREMERMAN'S NURSERY	15	0.4	1	2 0.20
1100522-1		233 01	2.00	02	40	10		01	50	264462 629350 GW	01			
1100522-2		233 01	2.00	02	40	10		01	50	264449 629378 GW	01			
1100524	4.85	03	.69	02	11	3-89	AG	GW	2	WILLIAM M. MAXWELL	70	0.4	1	1 0.20
1100524-1		233 01	2.00	02	30	20		01	40	277180 641133 GW	01			
1100524-2		233 01	4.00	02	30	20		01	120	277035 641083 GW	01			

208

COLLIER COUNTY MODEL BOUNDARY OVERLAP AREA OF HENDRY COUNTY

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

PERMIT NO.	AN.	ALL.	UNT.	MO.	MAX	MO.	DATE	USE	SRC.	NO.	SW	PMPS	OWNER	CROP TYPE	SOIL TYPE	RAIN	IRR	ST	ACRES	EFF

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

PERMIT NO.	FACILITY	QUAD NO.	STS	DIA.	WELL	DEPTH	CD	TD	INT	PUMP	PUMP	MTR?	XPLNR	YPLNR	SRC	AQ	COMMENTS
2600020	4625.28	03	174	01	380.16	02	26	6/87	AG	GW	37		JOE A. HILLIARD				
2600020-1		174	01	6.00	02	150	01	600	01	600	03		449912	793105	GW	03	
2600020-2		174	01	6.00	02	150	01	600	01	600	03		449911	793105	GW	03	
2600020-3		174	01	6.00	02	150	01	600	01	600	03		452745	793172	GW	03	
2600020-4		174	01	6.00	02	150	01	600	01	600	03		453976	789656	GW	03	
2600020-5		174	01	6.00	02	150	01	600	01	600	03		457620	789508	GW	03	
2600020-6		174	01	6.00	02	150	01	600	01	600	03		454346	787925	GW	03	
2600020-10		174	01	6.00	02	150	01	600	01	600	03		450952	788536	GW	03	
2600020-7		192	01	6.00	02	150	01	600	01	600	03		457963	786213	GW	03	
2600020-8		192	01	6.00	02	150	01	600	01	600	03		457643	786974	GW	03	
2600020-9		192	01	6.00	02	150	01	600	01	600	03		453062	782772	GW	03	
2600020-11		192	01	6.00	02	150	01	600	01	600	03		448174	785803	GW	03	
2600020-12		192	01	6.00	02	150	01	600	01	600	03		446344	785686	GW	03	
2600020-13		192	01	6.00	02	150	01	600	01	600	03		446114	787461	GW	03	
2600020-14		192	01	6.00	02	150	01	600	01	600	03		453231	786974	GW	03	
2600020-15		192	01	6.00	02	150	01	600	01	600	03		447411	788461	GW	03	
2600020-16		192	01	6.00	02	150	01	600	01	600	03		430697	781960	GW	03	
2600020-17		192	01	6.00	02	150	01	600	01	600	03		427495	781015	GW	03	
2600020-18		192	01	6.00	02	150	01	600	01	600	03		428658	777043	GW	03	
2600020-19		192	01	6.00	02	150	01	600	01	600	03		431999	781338	GW	03	
2600020-20		192	01	6.00	02	150	01	600	01	600	03		431214	777339	GW	03	
2600020-21		192	01	6.00	02	150	01	600	01	600	03		436641	777684	GW	03	
2600020-22		192	01	6.00	02	150	01	600	01	600	03		437805	782096	GW	03	
2600020-23		192	01	6.00	02	150	01	600	01	600	03		447899	781588	GW	03	
2600020-24		192	01	6.00	02	150	01	600	01	600	03		448616	782121	GW	03	
2600020-25		192	01	6.00	02	150	01	600	01	600	03		450024	780852	GW	03	
2600020-26		192	01	6.00	02	150	01	600	01	600	03		452221	780729	GW	03	
2600020-27		192	01	6.00	02	150	01	600	01	600	03		453041	782377	GW	03	
2600020-28		192	01	6.00	02	150	01	600	01	600	03		453641	778220	GW	03	
2600020-29		192	01	6.00	02	150	01	600	01	600	03		442530	772336	GW	03	
2600020-30		192	01	6.00	02	150	01	600	01	600	03		438416	776637	GW	03	
2600020-31		192	01	6.00	02	150	01	600	01	600	03		436885	772131	GW	03	
2600020-32		192	01	6.00	02	150	01	600	01	600	03		432690	776816	GW	03	
2600020-33		192	01	6.00	02	150	01	600	01	600	03		431319	774842	GW	03	
2600020-34		192	01	6.00	02	150	01	600	01	600	03		429499	776184	GW	03	
2600020-35		192	01	6.00	02	150	01	600	01	600	03		427116	772155	GW	03	
2600020-36		192	01	6.00	02	150	01	600	01	600	03		458267	774028	GW	03	
		192	01	6.00	02	150	01	600	01	600	03		445899	766885	GW	03	
2600052	29.36	03	172	01	5.68	02	26	10/87	AG	GW	5		JOHN F. CHARLTON				
2600052	2600052-1	172	01	6.00	02	58		500			03		366793	795161	GW	03	

15 1.5 15 5 0.50
52 1.5 15 25 0.50

2600052-2	172 01	6.00 02	58	500	365417	794598	GW	03
2600052-3	172 01	4.00 02	58	200	368076	794724	GW	03
2600052-4	172 01	3.00 02	26	150	366832	795975	GW	01
2600052-5	172 01	3.00 02	30	150	366302	796192	GW	01
2600053	8.80				R. D. DUNAWAY			
2600053-1	172 01	6.00 02	26 7/77	2	352678	804185	GW	01
2600053-2	172 01	6.00 02	33	600	353705	803721	GW	01
2600056	33.56				FEIDA RANCH			
2600056-1	172 01	6.00	26 1/77	2	354834	804624	GW	01
2600056-2	172 01	6.00	33	600	354708	806053	GW	01
2600070	525.60				E. C. MILLS			
2600070-13	193 01	43.20 02	26 6/87	19	479995	785325	GW	03
2600070-6	193 01	9.00 02	100	500	478576	785490	GW	03
2600070-4	193 01	9.00 02	100	500	476313	785445	GW	03
2600070-15	193 01	9.00 02	100	500	473456	785400	GW	03
2600070-20	193 01	9.00 02	109	500	479090	783577	GW	03
2600070-12	193 01	6.00 02	100	500	480484	781522	GW	03
2600070-7	193 01	9.00 02	100	500	478725	781726	GW	03
2600070-19	193 01	3.00 02	40	500	476488	781331	GW	01
2600070-8	193 01	9.00 02	100	500	476092	781832	GW	03
2600070-11	193 01	9.00 02	100	500	480605	779924	GW	03
2600070-10	193 01	9.00 02	100	500	478977	780029	GW	03
2600070-9	193 01	9.00 02	100	500	476405	779916	GW	03
2600070-1	175 01	9.00 02	100	500	476141	790688	GW	03
2600070-14	175 01	9.00 02	100	500	480053	788070	GW	03
2600070-5	175 01	9.00 02	100	500	478478	788054	GW	03
2600070-3	175 01	9.00 02	100	500	475985	788056	GW	03
2600070-16	175 01	9.00 02	100	500	473577	788124	GW	03
2600070-17	175 01	9.00 02	100	500	472948	788590	GW	03
2600070-18	175 01	9.00 02	100	500	471676	787916	GW	03
2600073	1264.87				USSC - DEVILS GARDEN CITRUS SO.			
2600073-1	193 04	465.54 02	26 4/88	62	459385	772097	GW	03
2600073-2	193 04	6.00 02	120	600	463070	772171	GW	03
2600073-3	193 04	16.00 02	120	600	464240	772082	GW	03
2600073-4	193 04	6.00 02	120	600	459312	770328	GW	03
2600073-5	193 04	6.00 02	120	600	462601	770189	GW	03
2600073-6	193 04	6.00 02	120	600	459400	768039	GW	03
2600073-7	193 04	6.00 02	120	600	463045	766452	GW	03
2600073-8	193 04	8.00 02	120	600	463965	765436	GW	03
2600073-9	193 04	6.00 02	120	600	459542	764321	GW	03
2600073-10	193 04	6.00 02	120	600	462860	763550	GW	03
2600073-11	193 04	6.00 02	120	600	464226	763519	GW	03
2600073-12	193 04	6.00 02	120	600	461402	762607	GW	03
2600073-13	193 04	6.00 02	120	600	460606	770331	GW	03
2600073-14	193 04	6.00 02	120	600	465880	771249	GW	03
2600073-15	193 04	16.00 02	120	600	467391	772313	GW	03
2600073-16	193 04	6.00 02	120	600	468642	771563	GW	03
2600073-17	193 04	6.00 02	120	600	466980	769873	GW	03
2600073-18	193 04	6.00 02	120	600	467701	769899	GW	03
2600073-19	193 04	6.00 02	120	600	464778	766494	GW	03
2600073-20	193 04	6.00 02	120	600	465895	766487	GW	03
2600073-21	193 04	6.00 02	120	600	467123	766551	GW	03

2600073-22	193 04	6.00 02	120	70	600	466552	764547	GW	03
2600073-23	193 04	6.00 02	120	70	600	469857	763504	GW	03
2600073-24	193 04	6.00 02	120	70	600	470945	772151	GW	03
2600073-25	193 04	10.00 02	120	70	600	472098	772069	GW	03
2600073-26	193 04	6.00 02	120	70	600	470325	770677	GW	03
2600073-27	193 04	6.00 02	120	70	600	469905	767808	GW	03
2600073-28	193 04	6.00 02	120	70	600	472515	767853	GW	03
2600073-29	193 04	6.00 02	120	70	600	474573	768281	GW	03
2600073-30	193 04	6.00 02	120	70	600	474418	767561	GW	03
2600073-31	193 04	6.00 02	120	70	600	471325	764676	GW	03
2600073-32	193 04	6.00 02	120	70	600	471325	763533	GW	03
2600073-33	193 04	6.00 02	120	70	600	473765	763270	GW	03
2600073-34	193 04	6.00 02	120	70	600	473472	769061	GW	03
2600073-35	193 04	6.00 02	120	70	600	471367	762910	GW	03
2600073-36	193 04	6.00 02	120	70	600	472572	770552	GW	03
2600073-	193 01	10.00 02	100	60	600	460551	763400	GW	03
2600073-	193 01	10.00 02	100	60	600	463348	763454	GW	03
2600073-	193 01	10.00 02	100	60	600	460326	765916	GW	03
2600073-	193 01	10.00 02	100	60	600	463133	765806	GW	03
2600073-	193 01	10.00 02	100	60	600	460641	768454	GW	03
2600073-	193 01	10.00 02	100	60	600	460652	770901	GW	03
2600073-	193 01	10.00 02	100	60	600	463371	770956	GW	03
2600073-	193 01	10.00 02	100	60	600	462800	768558	GW	03
2600073-	193 01	10.00 02	100	60	600	464859	765593	GW	03
2600073-	193 01	10.00 02	100	60	600	466946	765670	GW	03
2600073-	193 01	10.00 02	100	60	600	469573	765682	GW	03
2600073-	193 01	10.00 02	100	60	600	465244	762510	GW	03
2600073-	193 01	10.00 02	100	60	600	468560	762751	GW	03
2600073-	193 01	10.00 02	100	60	600	464965	768315	GW	03
2600073-	193 01	10.00 02	100	60	600	467301	768327	GW	03
2600073-	193 01	10.00 02	100	60	600	469381	768398	GW	03
2600073-	193 01	10.00 02	100	60	600	465025	770902	GW	03
2600073-	193 01	10.00 02	100	60	600	467282	771039	GW	03
2600073-	193 01	10.00 02	100	60	600	470944	770821	GW	03
2600073-	193 01	10.00 02	100	60	600	473404	770971	GW	03
2600073-	193 01	10.00 02	100	60	600	473466	768350	GW	03
2600073-	193 01	10.00 02	100	60	600	471012	768620	GW	03
2600073-	193 01	10.00 02	100	60	600	473687	765281	GW	03
2600073-	193 01	10.00 02	100	60	600	471283	765456	GW	03
2600073-	193 01	10.00 02	100	60	600	473778	763044	GW	03
2600073-	193 01	10.00 02	100	60	600	471357	763117	GW	03
2600075 63.86	03	11.72	02	26	4/87	D. B. TOWNSEND			
2600075-1	172 01	3.00 02	60	40	200 N	357476	801361	GW	01
2600075-2	172 01	3.00 02	60	40	200 N	355743	801313	GW	01
2600075-3	172 01	3.00 02	60	40	250 N	356482	801323	GW	01
2600079 33.56	03	6.00 02	26	3/77	LAWAYNE RAWLS				
2600079-	172 01	6.00 02	30	20	600 N	354900	806400	GW	01
2600079-	172 01	6.00 02	80		600 N	354900	806400	GW	03
2600079-	172 01	6.00 02	80		600 N	354900	806400	GW	03
2600079-	172 01	8.00 02	160		600 N	354900	806400	GW	04
2600083 131.77	03	26.55	02	26	12/87	CROOKS RANCH			
2600083-1	193 03	6.00 02	80	50	11	459457	772693	GW	03
2600083-2	193 03	6.00 02	80	50	600	459907	774400	GW	03

20 0.8 15 63 0.50

13 0.8 15 143 0.85

61 0.8 26 135 0.50

2600087	2600083-3	193 01	6.00 02	80	50	1000	459364	775622	GW	03	13	0.8	26	3480	0.85
2600087	2600083-4	193 01	6.00 02	80	50	1100	461595	770078	GW	03	61	0.8	26	1000	0.50
2600087	2600083-5	193 03	6.00 02	80	50	600	462786	782093	GW	03	20	0.8	26	3164	0.50
2600087	2600083-6	193 01	6.00 02	80	50	1200	465273	774925	GW	03	59 of these wells will be abandon. 12" wells w/ 800 gpm pumps				
2600087	2600083-7	193 01	6.00 02	80	50	1000	464992	778043	GW	03					
2600087	2600083-8	193 03	6.00 02	80	50	600	466776	782406	GW	03					
2600087	2600083-9	193 03	6.00 02	80	50	600	468486	783273	GW	03					
2600087	2600083-10	193 01	6.00 02	80	50	1100	467885	785566	GW	03					
2600087	2600083-11	193 03	6.00 02	80	50	600	468311	787158	GW	03					
2600087	2600087-5	193 01	6.00 02	100	60	600	497464	761861	GW	03					
2600087	2600087-6	193 01	6.00 02	100	60	600	496769	761141	GW	03					
2600087	2600087-7	193 01	6.00 02	100	60	600	500021	758735	GW	03					
2600087	2600087-8	193 01	6.00 02	100	60	600	491482	761621	GW	03					
2600087	2600087-9	193 01	6.00 02	100	60	600	492504	761680	GW	03					
2600087	2600087-10	193 01	6.00 02	100	60	600	493369	761735	GW	03					
2600087	2600087-11	193 01	6.00 02	100	60	600	494997	761302	GW	03					
2600087	2600087-12	193 01	6.00 02	100	60	600	491527	760294	GW	03					
2600087	2600087-13	193 01	6.00 02	100	60	600	493372	760212	GW	03					
2600087	2600087-14	193 01	6.00 02	100	60	600	494397	760450	GW	03					
2600087	2600087-15	193 01	6.00 02	100	60	600	492880	758853	GW	03					
2600087	2600087-16	193 01	6.00 02	100	60	600	495658	759005	GW	03					
2600087	2600087-17	193 01	6.00 02	100	60	600	499825	754152	GW	03					
2600087	2600087-18	193 01	6.00 02	100	60	600	498574	753861	GW	03					
2600087	2600087-19	193 01	6.00 02	100	60	600	497231	754619	GW	03					
2600087	2600087-20	193 01	6.00 02	100	60	600	495509	757014	GW	03					
2600087	2600087-21	193 01	6.00 02	100	60	600	494366	755602	GW	03					
2600087	2600087-22	193 01	6.00 02	100	60	600	494942	755078	GW	03					
2600087	2600087-23	193 01	6.00 02	100	60	600	492708	754444	GW	03					
2600087	2600087-24	193 01	6.00 02	100	60	600	493438	753821	GW	03					
2600087	2600087-25	193 01	6.00 02	100	60	600	492147	752521	GW	03					
2600087	2600087-26	193 01	6.00 02	100	60	600	498150	751434	GW	03					
2600087	2600087-27	193 01	6.00 02	100	60	600	497151	751268	GW	03					
2600087	2600087-28	193 01	6.00 02	100	60	600	495676	748844	GW	03					
2600087	2600087-29	193 01	6.00 02	100	60	600	494703	749234	GW	03					
2600087	2600087-30	193 01	6.00 02	100	60	600	494534	750116	GW	03					
2600087	2600087-31	193 01	6.00 02	100	60	600	494606	750810	GW	03					
2600087	2600087-32	193 01	6.00 02	100	60	600	492303	751342	GW	03					
2600087	2600087-33	193 01	6.00 02	100	60	600	489068	760715	GW	03					
2600087	2600087-34	193 01	6.00 02	100	60	600	483492	760452	GW	03					
2600087	2600087-35	193 01	6.00 02	100	60	600	483895	760036	GW	03					
2600087	2600087-36	193 01	6.00 02	100	60	600	485302	757313	GW	03					
2600087	2600087-37	193 01	6.00 02	100	60	600	476391	760645	GW	03					
2600087	2600087-38	193 01	6.00 02	100	60	600	478874	760654	GW	03					
2600087	2600087-39	193 01	6.00 02	100	60	600	477025	757520	GW	03					
2600087	2600087-40	193 01	6.00 02	100	60	600	478830	756906	GW	03					
2600087	2600087-41	193 01	6.00 02	100	60	600	476065	756039	GW	03					
2600087	2600087-42	193 01	6.00 02	100	60	600	475557	755496	GW	03					
2600087	2600087-43	193 01	6.00 02	100	60	600	477479	753667	GW	03					
2600087	2600087-44	193 01	6.00 02	100	60	600	481377	753662	GW	03					
2600087	2600087-45	193 01	6.00 02	100	60	600	481252	752788	GW	03					
2600087	2600087-46	193 01	6.00 02	100	60	600	486262	756481	GW	03					
2600087	2600087-47	193 01	6.00 02	100	60	600	487775	756794	GW	03					
2600087	2600087-48	193 01	6.00 02	100	60	600				03					
2600087	2600087-49	193 01	6.00 02	100	60	600				03					
2600087	2600087-50	193 01	6.00 02	100	60	600				03					
2600087	2600087-51	193 01	6.00 02	100	60	600				03					
2600087	2600087-52	193 01	6.00 02	100	60	600				03					
2600087	2600087-53	193 01	6.00 02	100	60	600				03					
2600087	2600087-54	193 01	6.00 02	100	60	600				03					
2600087	2600087-55	193 01	6.00 02	100	60	600				03					
2600087	2600087-56	193 01	6.00 02	100	60	600				03					
2600087	2600087-57	193 01	6.00 02	100	60	600				03					
2600087	2600087-58	193 01	6.00 02	100	60	600				03					
2600087	2600087-59	193 01	6.00 02	100	60	600				03					

2600087-60	193 01	6.00 02 100	60	600	488567	753970 GW	03
2600087-61	193 01	6.00 02 100	60	600	486273	752170 GW	03
2600087-62	193 01	6.00 02 100	60	600	491126	747831 GW	03
2600087-63	193 01	6.00 02 100	60	600	492557	747342 GW	03
2600087-64	193 01	6.00 02 100	60	600	490276	751126 GW	03
2600087-65	193 01	6.00 02 100	60	600	488431	750344 GW	03
2600087-66	193 01	6.00 02 100	60	600	486278	749100 GW	03
2600087-67	193 01	6.00 02 100	60	600	483822	749812 GW	03
2600087-68	193 01	6.00 02 100	60	600	475951	750825 GW	03
2600087-69	193 01	6.00 02 100	60	600	476411	747378 GW	03
2600087-70	193 01	6.00 02 100	60	600	478996	746991 GW	03
2600087-71	193 01	6.00 02 100	60	600	479452	742735 GW	03
2600087-72	193 01	6.00 02 100	60	600	483403	743615 GW	03
2600087-74	193 01	6.00 02 100	60	600	485175	742350 GW	03
2600087-75	193 01	6.00 02 100	60	600	486275	742113 GW	03
2600087-76	193 01	6.00 02 100	60	600	487373	742139 GW	03
2600087-77	193 01	6.00 02 100	60	600	487308	743417 GW	03
2600087-78	193 01	6.00 02 100	60	600	491291	742704 GW	03
2600087-81	193 01	6.00 02 100	60	600	494174	745314 GW	03
2600087-82	193 01	6.00 02 100	60	600	498115	745830 GW	03
2600087-83	193 01	6.00 02 100	60	600	498068	743487 GW	03
2600087-1	194 01	6.00 02 100	60	600	496827	742866 GW	03
2600087-2	194 01	6.00 02 100	60	600	505091	762190 GW	03
2600087-3	194 01	6.00 02 100	60	600	504977	761071 GW	03
2600087-4	194 01	6.00 02 100	60	600	504977	758862 GW	03
2600087-17	194 01	6.00 02 100	60	600	504937	757189 GW	03
2600087-18	194 01	6.00 02 100	60	600	505723	757179 GW	03
2600087-19	194 01	6.00 02 100	60	600	506369	757260 GW	03
2600087-20	194 01	6.00 02 100	60	600	505559	753917 GW	03
2600087-21	194 01	6.00 02 100	60	600	505806	752678 GW	03
2600087-22	194 01	6.00 02 100	60	600	500623	756865 GW	03
2600087-32	194 01	6.00 02 100	60	600	503380	751682 GW	03
2600087-33	194 01	6.00 02 100	60	600	505414	752018 GW	03
2600087-34	194 01	6.00 02 100	60	600	505795	751517 GW	03
2600087-35	194 01	6.00 02 100	60	600	505187	749527 GW	03
2600087-36	194 01	6.00 02 100	60	600	503176	748991 GW	03
2600087-37	194 01	6.00 02 100	60	600	500081	750626 GW	03
2600087-84	194 01	6.00 02 100	60	600	500169	742808 GW	03
2600087-85	194 01	6.00 02 100	60	600	502351	744592 GW	03
2600087-86	194 01	6.00 02 100	60	600	504595	745138 GW	03
2600087-87	194 01	6.00 02 100	60	600	504783	744119 GW	03
2600087-88	209 01	6.00 02 100	60	600	503215	736674 GW	03
2600087-89	209 01	6.00 02 100	60	600	504405	737530 GW	03
2600087-90	209 01	6.00 02 100	60	600	505546	736544 GW	03
2600089 173.67	03	26 11/77 AG	GW	2	CROOKS RANCH		
2600089-1A	192 01	6.00 02 80	50	600	420125	770186 GW	03
2600089-2B	192 01	6.00 02 80	50	600	423937	773205 GW	03
2600095 36.25	03	26 6/87 AG	BOTH	3	1 E. C. MILLS		
2600098-1	194 01	8.00 02 50	20	750	510531	784064 GW	01
2600098-2	194 01	8.00 02 50	20	750	508901	782796 GW	01
2600098-3	194 03	8.00 02 50	20	750	506697	782938 GW	01
2600108 15532	03	26 8/88 AG	GW	129	ALICO		
2600108-109	175 01	1276.6002 6.00 02 80		600	497087	802369 GW	03
					20	0.8 26	800 0.50
					13	1.5 15	26 0.75
					20	0.8 15	23200 0.50

2600108-106 175 01 6.00 02 80
2600108-105 175 01 6.00 02 80
2600108-100 175 01 6.00 02 80
2600108-99 175 01 6.00 02 80
2600108-95 175 01 6.00 02 80
2600108-83 175 01 6.00 02 80
2600108-82 175 01 6.00 02 80
2600108-84 175 01 6.00 02 80
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2600108-86 175 01 6.00 02 80
2600108-88 175 01 6.00 02 80
2600108-87 175 01 6.00 02 80
2600108-89 175 01 8.00 02 80
2600108-91 175 01 6.00 02 80
2600108-94 175 01 8.00 02 80
2600108-90 175 01 6.00 02 80
2600108-93 175 01 6.00 02 80
2600108-92 175 01 6.00 02 80
2600108-112 175 01 6.00 02 130
2600108-77 175 01 8.00 02 80
2600108-78 175 01 8.00 02 80
2600108-113 175 01 8.00 02 80
2600108-28 175 01 6.00 02 80
2600108-27 175 01 8.00 02 80
2600108-26 175 01 6.00 02 80
2600108-24 175 01 6.00 02 80
2600108-25 175 01 6.00 02 80
2600108-72 175 01 6.00 02 80
2600108-75 175 01 6.00 02 80
2600108-73 175 01 6.00 02 80
2600108-74 175 01 10.00 02 80
2600108-76 175 01 10.00 02 80
2600108-79 175 01 6.00 02 80
2600108-80 175 01 10.00 02 80
2600108-81 175 01 10.00 02 80
2600108-71 175 01 6.00 02 80
2600108-70 175 01 6.00 02 80
2600108-68 175 01 6.00 02 80
2600108-69 175 01 6.00 02 80
2600108-66 175 01 8.00 02 80
2600108-67 175 01 8.00 02 80
2600108-65 175 01 6.00 02 80
2600108-64 175 01 8.00 02 80
2600108-63 175 01 6.00 02 80
2600108-116 175 01 6.00 02 80
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2600108-114 175 01 6.00 02 80
2600108-23 175 01 6.00 02 80
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2600108-56 175 01 6.00 02 80
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2600108-59 175 01 8.00 02 80
2600108-60 175 01 6.00 02 80
2600108-35 175 01 6.00 02 80

600 496751 805438 GW 03
600 497252 806152 GW 03
600 496555 810852 GW 03
600 496238 811730 GW 03
600 498462 821350 GW 03
600 490043 826170 GW 03
600 493036 824819 GW 03
600 491188 817680 GW 03
600 492792 816085 GW 03
600 492746 812034 GW 03
600 495004 812401 GW 03
600 493732 811285 GW 03
600 493020 808982 GW 03
600 490371 807664 GW 03
600 491682 807199 GW 03
600 491436 806630 GW 03
600 493430 799428 GW 03
600 489800 799165 GW 03
600 489383 801957 GW 03
600 485211 808782 GW 03
600 485168 810005 GW 03
600 489993 810489 GW 03
600 481987 796735 GW 03
600 481543 797001 GW 03
600 484690 798476 GW 03
600 481647 801095 GW 03
600 485133 801814 GW 03
600 481232 803097 GW 03
600 484934 804985 GW 03
600 480096 804951 GW 03
600 479903 806475 GW 03
600 481309 809645 GW 03
600 483638 812450 GW 03
600 482634 814655 GW 03
600 480626 815890 GW 03
600 478719 796345 GW 03
600 477748 803704 GW 03
600 475758 804637 GW 03
600 478823 805025 GW 03
600 475897 806632 GW 03
600 475843 806878 GW 03
600 475965 807987 GW 03
600 479459 814168 GW 03
600 477698 819072 GW 03
600 471954 789761 GW 03
600 469641 789748 GW 03
600 470796 793091 GW 03
600 471321 795354 GW 03
600 469812 794863 GW 03
600 470573 795855 GW 03
600 473882 799466 GW 03
600 473263 802057 GW 03
600 472509 803257 GW 03
600 473228 804711 GW 03
600 472984 806156 GW 03
600 470288 806550 GW 03

2600108-62	175 01	6.00 02	80	600	474323	809962	GW	03
2600108-61	175 01	6.00 02	80	600	473173	811396	GW	03
2600108-54	175 01	6.00 02	80	600	469317	814526	GW	03
2600108-53	175 01	6.00 02	80	600	470667	817696	GW	03
2600108-51	175 01	6.00 02	80	600	469595	818004	GW	03
2600108-52	175 01	6.00 02	80	600	470536	822133	GW	03
2600108-20	175 01	6.00 02	80	800	469173	796457	GW	03
2600108-48	175 01	6.00 02	80	800	468368	801661	GW	03
2600108-47	175 01	8.00 02	80	800	465729	812753	GW	03
2600108-46	175 01	6.00 02	80	800	465691	813635	GW	03
2600108-18	175 01	6.00 02	80	800	467416	813196	GW	03
2600108-17	175 01	6.00 02	80	800	468081	813849	GW	03
2600108-50	175 01	6.00 02	80	800	467992	818369	GW	03
2600108-49	175 01	6.00 02	80	800	467957	818818	GW	03
2600108-42	175 01	6.00 02	80	800	461865	794663	GW	03
2600108-43	175 01	8.00 02	80	800	462631	795389	GW	03
2600108-16	175 01	6.00 02	80	800	456362	794403	GW	03
2600108-14	174 01	6.00 02	80	800	453491	796851	GW	03
2600108-15	174 01	6.00 02	80	800	457688	799141	GW	03
2600108-13	174 01	6.00 02	80	600	458293	811266	GW	03
2600108-12	174 01	6.00 02	80	800	452591	800268	GW	03
2600108-11	174 01	6.00 02	80	800	449582	801416	GW	03
2600108-10	174 01	6.00 02	80	800	451170	802132	GW	03
2600108-9	174 01	6.00 02	80	800	450107	804443	GW	03
2600108-40	174 01	6.00 02	80	800	450805	805584	GW	03
2600108-39	174 01	6.00 02	80	800	450381	808527	GW	03
2600108-36	174 01	6.00 02	80	800	444994	800972	GW	03
2600108-37	174 01	6.00 02	80	800	446827	804761	GW	03
2600108-34	174 01	6.00 02	80	800	442745	807866	GW	03
2600108-35	174 01	8.00 02	80	800	443107	808164	GW	03
2600108-38	174 01	8.00 02	80	800	442696	814456	GW	03
2600108-8	174 01	6.00 02	80	378	441362	795660	GW	03
2600108-7	174 01	6.00 02	80	800	441061	796419	GW	03
2600108-6	174 01	6.00 02	80	800	439637	796921	GW	03
2600108-5	174 01	6.00 02	80	800	439488	797811	GW	03
2600108-33	174 01	6.00 02	80	800	442029	802393	GW	03
2600108-32	174 01	6.00 02	80	800	441841	803799	GW	03
2600108-31	174 01	6.00 02	80	800	441299	803830	GW	03
2600108-30	174 01	6.00 02	80	800	440307	807003	GW	03
2600108-29	174 01	6.00 02	80	800	425787	800031	GW	03
2600108-27	174 01	4.00 02	80	800	421996	814401	GW	03
2600108-4	174 01	6.00 02	80	800	422021	815107	GW	03
2600108-	174 01	6.00 02	80	800	424383	816071	GW	03
2600108-28	174 01	6.00 02	80	800	418369	809667	GW	03
2600108-25	174 01	4.00 02	80	800	418900	809593	GW	03
2600108-36	174 01	4.00 02	80	800	420772	809583	GW	03
2600108-2	174 01	4.00 02	80	850	418332	811213	GW	03
2600108-3	174 01	6.00 02	80	750	420234	811548	GW	03
2600108-44	174 01	6.00 02	80	800	458708	810067	GW	03
2600108-45	174 01	6.00 02	80	800	459151	808221	GW	03
2600108-41	174 01	6.00 02	80	800	457851	810084	GW	03
2600108-1	173 01	6.00 02	80	800	417573	813793	GW	03
2600108-23	173 01	6.00 02	80	800	416060	814337	GW	03
2600108-22	173 01	6.00 02	80	800	413494	809661	GW	03
2600108-19	173 01	3.00 02	80	800	414734	818732	GW	03
2600108-13	173 01	6.00 02	80	600	415575	821387	GW	03

2600108-	173 01	6.00 02	80	800	408584	813770	GW	03
2600108-14	173 01	6.00 02	80	800	409677	816238	GW	03
2600108-12	173 01	6.00 02	80	375	407770	818132	GW	03
2600108-11	173 01	6.00 02	80	800	405239	819694	GW	03
2600108-10	173 01	6.00 02	80	800	405259	822290	GW	03
2600108-9	173 01	6.00 02	80	800	406661	823485	GW	03
2600108-15	173 01	6.00 02	80	800	408449	823314	GW	03
2600108-16	173 01	6.00 02	80	800	409165	823701	GW	03
2600108-7	173 01	6.00 02	80	800	405243	826560	GW	03
2600108-8	173 01	6.00 02	80	800	406762	828178	GW	03
2600108-6	173 01	6.00 02	80	800	404022	825080	GW	03
2600108-5	173 01	6.00 02	80	800	390359	822234	GW	03
2600108-1	155 01	4.00 02	80	800	387814	838804	GW	03
2600108-2	155 01	4.00 02	80	800	388529	837622	GW	03
2600108-3	155 01	4.00 02	80	800	387719	836576	GW	03
2600108-4	155 01	4.00 02	80	800	386907	836821	GW	03
2600112 3668.11	03	891.96 02	26 9/87	AG	BARRON COLLIER III TRUST			
2600112				88				61 0.8 26 3164 0.50
								56 0.8 26 3164 0.50
2600112-11	191 01	8.00 02	44	800	418099	757199	GW	01
2600112-12	191 01	8.00 02	54	800	416938	756302	GW	01
2600112-63	191 01	10.00 02	60	1000	417500	751680	GW	01
2600112-185	206 01	9.00 02	66	800	413710	730475	GW	01
2600112-134	206 01	4.00 02	60	400	415731	728675	GW	01
2600112-135	206 01	6.00 02	54	600	412923	728627	GW	01
2600112-136	206 01	6.00 02	45	600	412350	726605	GW	01
2600112-137	206 01	9.00 02	43	800	412306	725527	GW	01
2600112-138	206 01	8.00 02	44	800	413115	724569	GW	01
2600112-139	206 01	8.00 02	53	800	415474	725966	GW	01
2600112-140	206 01	8.00 02	45	800	412375	722670	GW	01
2600112-141	206 01	8.00 02	46	800	413975	723415	GW	01
2600112-142	206 01	8.00 02	42	800	415774	723421	GW	01
2600112-143	206 01	8.00 02	67	800	416316	722261	GW	01
2600112-144	206 01	8.00 02	47	800	415329	720621	GW	01
2600112-145	206 01	8.00 02	51	800	413105	721125	GW	01
2600112-146	206 01	6.00 02	58	600	412927	719774	GW	01
2600112-147	206 01	6.00 02	52	600	417366	722064	GW	01
2600112-150	206 01	8.00 02	61	800	417095	720986	GW	01
2600112-	192 01	8.00 02	61	800	424993	759746	GW	01
2600112-1	192 01	6.00 02	66	600	424726	757279	GW	01
2600112-2	192 01	6.00 02	82	600	425830	757868	GW	03
2600112-3	192 01	6.00 02	86	600	425393	758858	GW	03
2600112-4	192 01	6.00 02	63	600	426792	758101	GW	03
2600112-5	192 01	6.00 02	40	200	431528	756588	GW	01
2600112-6	192 01	2.00 02		200	433196	757322	GW	01
2600112-7	192 01	2.00 02		200	428540	760581	GW	01
2600112-8	192 01	8.00 02	52	800	420414	758243	GW	01
2600112-9	192 01	2.00 02		200	420076	759211	GW	01
2600112-10	192 01	8.00 02	49	800	419334	757621	GW	01
2600112-64	192 01	8.00 02	61	800	428056	754313	GW	01
2600112-65	192 01	8.00 02	60	800	431829	747400	GW	01
2600112-66	192 01	8.00 02	62	800	427980	744465	GW	01
2600112-67	192 01	8.00 02	61	800	430532	742645	GW	01
2600112-30	192 01	8.00 02	47	800	421884	759200	GW	01
2600112-148	207 01	8.00 02	51	800	418177	722698	GW	01
2600112-149	207 01	6.00 02	149	600	419151	723154	GW	03

2600112-151	207 01	4.00 02	45	400	421004	720936	GW	01
2600112-152	207 01	10.00 02	91	1000	420102	719907	GW	03
2600112-153	207 01	8.00 02	76	800	418176	719103	GW	03
2600112-154	207 01	10.00 02	52	1000	422323	721060	GW	03
2600112-155	207 01	8.00 02	57	800	425862	720710	GW	03
2600112-156	207 01	8.00 02	48	800	431655	723888	GW	03
2600112-157	207 01	8.00 02	50	800	432731	724043	GW	01
2600112-158	207 01	8.00 02	52	800	435275	723381	GW	01
2600112-159	207 01	8.00 02	79	800	438534	723462	GW	03
2600112-160	207 01	8.00 02	73	800	439839	723586	GW	03
2600112-161	207 01	8.00 02	57	800	440124	722600	GW	01
2600112-162	207 01	8.00 02	77	800	441493	720907	GW	03
2600112-163	207 01	6.00 02	78	600	438538	722050	GW	03
2600112-164	207 01	6.00 02	64	600	438341	720673	GW	03
2600112-165	207 01	6.00 02	65	900	440111	720604	GW	03
2600112-166	207 01	6.00 02	76	600	440824	720844	GW	03
2600112-167	207 01	8.00 02	76	800	442149	719948	GW	03
2600112-168	207 01	6.00 02	70	600	439008	719576	GW	03
2600112-169	207 01	6.00 02	60	600	442067	718916	GW	03
2600112-170	207 01	6.00 02	58	600	442400	717412	GW	03
2600112-171	207 01	8.00 02	65	800	440596	716259	GW	03
2600112-172	207 01	8.00 02	66	800	439837	715917	GW	03
2600112-173	207 01	8.00 02	64	800	441532	716209	GW	03
2600112-174	207 01	6.00 02	64	600	439786	714452	GW	03
2600112-175	207 01	8.00 02	54	800	435205	718985	GW	03
2600112-176	207 01	8.00 02	53	800	435428	717710	GW	03
2600112-177	207 01	8.00 02	46	800	433307	714676	GW	03
2600112-178	207 01	8.00 02	67	800	429933	715888	GW	03
2600112-179	207 01	8.00 02	67	800	428202	715008	GW	03
2600112-180	207 01	6.00 02	66	600	430286	714666	GW	03
2600112-181	207 01	8.00 02	61	800	432853	737934	GW	03
2600112-182	207 01	9.00 02	63	900	433747	739220	GW	03
2600112-183	207 01	9.00 02	63	900	436490	739357	GW	03
2600112-184	207 01	9.00 02	63	900	433958	737761	GW	03
2600112-185	207 01	8.00 02	44	800	445124	733896	GW	01
2600112-186	207 01	6.00 02	30	600	444168	730597	GW	01
2600112-187	207 01	8.00 02	34	800	445940	731651	GW	01
2600112-188	207 01	8.00 02	39	800	447753	730507	GW	01
2600112-189	207 01	9.00 02	61	900	441430	731884	GW	03
2600112-190	207 01	9.00 02	61	900	439745	729655	GW	03
2600112-191	207 01	9.00 02	60	800	438077	729009	GW	03
2600112-192	207 01	8.00 02	58	900	442056	729257	GW	03
2600112-193	207 01	10.00 02	60	1000	439896	727615	GW	03
2600112-194	207 01	8.00 02	79	800	442210	727588	GW	01
2600112-195	207 01	8.00 02	54	800	438179	727299	GW	03
2600112-196	207 01	8.00 02	116	800	438223	726380	GW	03
2600112-197	207 01	8.00 02	101	800	441277	726344	GW	03
2600112-198	207 01	8.00 02	74	800	438270	725596	GW	03
2600112-199	207 01	8.00 02	77	800	435285	727403	GW	03
2600112-200	207 01	6.00 02	62	600	429910	726192	GW	01
2600112-201	207 01	8.00 02	41	800	431321	725920	GW	01
2600112-202	207 01	8.00 02	41	800				
2600116 348.18	03	128.15 02	26	3	B-J GROVES			
2600116-	192 01	8.00 02	90	400	442821	751200	GW	03
2600116-	192 01	8.00 02	90	400	440426	751088	GW	03
2600116-	192 01	8.00 02	90	400	438165	751027	GW	03

13 0.8 26 757 0.50

2600118	78.19	03	28.78	02	26	10/87	AG	GW	4	MACKAY GROVES	01	13	0.8	15	170	0.85		
	2600118-1	172 01	8.00	02	35	20		02	250	363540	795300	GW	04					
	2600118-2	172 01	8.00	02	160	140		02	250	363540	795920	GW	04					
	2600118-3	172 01	8.00	02	160	80		02	250	363540	795660	GW	04					
	2600118-4	01	8.00	02	160	80		02	250	363300	797760	GW	04					
2600121	258.03	03	94.98	02	26	10/87	AG	GW	6	PBJ PROPERTIES		13	0.8	15	561	0.85		
	2600121-1	172 02	12.00	02	200	140		02	711	344600	808200	GW	04					
	2600121-2	172 02	12.00	02	200	140		02	740	344600	807400	GW	04					
	2600121-3	172 02	10.00	02	200	140		02	385	344200	806000	GW	04					
	2600121-4	172 02	10.00	02	200	140		02	385	347200	805400	GW	04					
	2600121-5	172 02	10.00	02	200	140		02	567	344200	804600	GW	04					
	2600121-6	172 02	10.00	02	200	140		02	461	344200	803600	GW	04					
2600126	2794.62	03	290.09	02	26	8/87	AG	GW	17	HENDRY CORRECTIONAL INSTITUTION		20	0.8	26	2740	0.50		
	2600126-1	206 01	8.00	02	60				500	414283	718618	GW	03	15	0.8	26	10	0.75
	2600126-2	206 01	8.00	02	60				500	416993	718699	GW	03					
	2600126-5	206 01	6.00	02	30				405	414455	716196	GW	01					
	2600126-3	207 01	8.00	02	60				500	427255	717556	GW	03					
	2600126-4	207 01	8.00	02	60				500	427298	715800	GW	03					
	2600126-6	207 01	6.00	02	30				415	420837	717901	GW	01					
	2600126-7	207 01	6.00	02	30				415	422591	718795	GW	01					
	2600126-8	207 01	6.00	02	30				415	424526	717270	GW	01					
	2600126-9	207 01	6.00	02	30				415	426970	718797	GW	01					
	2600126-10	207 01	6.00	02	30				415	422881	715583	GW	01					
	2600126-11	207 01	6.00	02	30				415	423498	713584	GW	01					
	2600126-12	207 01	6.00	02	30				415	420955	713451	GW	01					
	2600126-13	207 01	6.00	02	30				415	419781	710596	GW	01					
	2600126-14	207 01	6.00	02	30				415	420212	712160	GW	01					
	2600126-15	207 01	6.00	02	30				415	421648	709268	GW	01					
	2600126-	207 01	6.00	02	50				75	422640	714969	GW	03					
	2600126-	207 01	4.00	02	50				75	424690	711269	GW	03					
2600134	275.97	03	101.57	02	26	10/87	AG	GW	3	PAUL & WHEELER		13	0.8	15	600	0.85		
	2600134-B	172 01	8.00	02	130	60		02	100	359850	807700	GW	04					
	2600134-C	172 01	8.00	02	125	80		02	100	358500	807100	GW	04					
	2600134-D	172 01	8.00	02	145	80		02	100	359100	805550	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-	207 01	10.00	02	85				600	425109	708245	GW	03	13	0.8	26	460	0.50
	2600136-	207 01	10.00	02	85				600	424636	708243	GW	03	61	0.8	26	260	0.50
	2600136-	207 01	6.00	02	85				600	426318	707416	GW	03					
	2600136-	207 01	6.00	02	85				600	427225	705625	GW	03					
	2600136-	207 01	8.00	02	85				600	425676	704540	GW	03					
	2600136-	207 01	10.00	02	85				600	423747	703350	GW	03					
	2600136-	207 01	10.00	02	85				600	424647	705007	GW	03					
	2600136-	207 01	8.00	02	85				600	424754	705838	GW	03					
	2600136-	207 01	10.00	02	85				600	421988	707765	GW	03					
	2600136-	207 01	10.00	02	85				600	420019	707644	GW	03					
	2600136-	207 01	8.00	02	85				600	419375	705649	GW	03					
	2600136-	207 01	10.00	02	85				600	420428	705718	GW	03					
	2600136-	207 01	10.00	02	85				600	421990	705861	GW	03					

2600136-	207 01	8.00 02	85	600	421957	703819	GW	03
2600136-	207 01	8.00 02	85	600	419966	702900	GW	03
2600136-	207 01	10.00 02	85	600	419918	702092	GW	03
2600136-	207 01	8.00 02	85	600	419855	700187	GW	03
2600136-	207 01	10.00 02	85	600	422153	700111	GW	03
2600136-	207 01	10.00 02	85	600	423690	700116	GW	03
2600136-	207 01	10.00 02	85	600	426408	700460	GW	03
2600136-	207 01	10.00 02	85	600	426490	701817	GW	03
2600136-	207 01	10.00 02	85	600	424024	702906	GW	03
2600136-	206 01	6.00 02	85	600	416930	705792	GW	03
2600136-	206 01	4.00 02	85	600	417470	705738	GW	03
2600136-	206 01	8.00 02	85	600	417417	704502	GW	03
2600136-	206 01	8.00 02	85	600	417029	702807	GW	03
2600136-	206 01	8.00 02	85	600	414733	700325	GW	03
2600143 3462.11	03	847.12 02	26	105	11 ZIPPERER FARMS			
2600143								
2600143								
2600143								
2600143-5	176 01	6.00 02	130	600	505465	791367	GW	03
2600143-6	176 01	6.00 02	130	600	504152	791326	GW	03
2600143-9	176 01	6.00 02	130	600	504124	790032	GW	03
2600143-11	176 01	6.00 02	130	600	505547	788685	GW	03
2600143-12	176 01	6.00 02	130	600	504148	788703	GW	03
2600143-13	176 01	6.00 02	130	600	501345	789188	GW	03
2600143-17	176 01	6.00 02	130	600	501129	787450	GW	03
2600143-1	175 01	6.00 02	130	600	492436	793666	GW	03
2600143-2	175 01	6.00 02	130	600	491140	794278	GW	03
2600143-3	175 01	6.00 02	130	600	498476	792963	GW	03
2600143-4	175 01	6.00 02	130	600	497443	793022	GW	03
2600143-7	175 01	6.00 02	130	600	492318	790883	GW	03
2600143-8	175 01	6.00 02	130	600	491001	790571	GW	03
2600143-10	175 01	8.00 02	130	600	492097	789957	GW	03
2600143-14	175 01	6.00 02	130	600	494961	788727	GW	03
2600143-15	175 01	8.00 02	130	600	492042	788674	GW	03
2600143-106	175 02	12.00 02	120	3000	491681	788213	GW	03
2600143-18	193 01	6.00 02	130	600	495149	787229	GW	03
2600143-22	193 01	6.00 02	130	1200	499590	786532	GW	03
2600143-23	193 01	6.00 02	130	1200	497693	784489	GW	03
2600143-25	193 01	6.00 02	130	1200	499462	784606	GW	03
2600143-26	193 01	6.00 02	130	1200	495147	784435	GW	03
2600143-29	193 01	6.00 02	130	1200	494125	782896	GW	03
2600143-31	193 01	6.00 02	130	1200	499467	781933	GW	03
2600143-32	193 01	6.00 02	130	1200	497859	781875	GW	03
2600143-33	193 01	6.00 02	130	1200	492451	781845	GW	03
2600143-34	193 01	6.00 02	130	1200	491795	781855	GW	03
2600143-35	193 01	6.00 02	130	1200	491157	781832	GW	03
2600143-36	193 01	6.00 02	130	1200	492574	780249	GW	03
2600143-37	193 01	6.00 02	130	1200	491644	780843	GW	03
2600143-38	193 01	6.00 02	130	1200	491385	780250	GW	03
2600143-40	193 01	6.00 02	135	1200	491630	777885	GW	03
2600143-41	193 01	6.00 02	135	1200	491113	778199	GW	03
2600143-42	193 01	6.00 02	135	1200	491099	777571	GW	03
2600143-45	193 01	6.00 02	135	1200	491243	776503	GW	03
2600143-47	193 01	6.00 02	135	1200	491255	775386	GW	03
2600143-48	193 01	6.00 02	135	1200	491206	774799	GW	03

2600143--75	194 01	6.00 02	130	800	502135	765480	GW	03	1 PAUL MIDILI & K. T. JOHN	13	0.8	15	40	0.50
2600143-76	194 01	6.00 02	130	800	502303	764421	GW	03						
2600143-101	194 02	12.00 02	120	2400	500057	769469	GW	03						
2600143-102	194 02	12.00 02	120	2400	500005	771834	GW	03						
2600143-95	194 02	12.00 02	120	2400	503745	763519	GW	03						
2600143-96	194 02	12.00 02	120	2400	506303	764928	GW	03						
2600143-97	194 02	12.00 02	120	2400	506322	766173	GW	03						
2600143-94	194 02	12.00 02	120	2400	502336	765446	GW	03						
2600143-98	194 02	12.00 02	120	2400	502956	766970	GW	03						
2600143-99	194 02	12.00 02	120	2400	503280	768279	GW	03						
2600143-102	194 02	12.00 02	120	2400	503256	769843	GW	03						
2600143-103	194 02	12.00 02	120	2400	504983	774432	GW	03						
2600143-SW1	03	12.00 02	120	20000	493540	790120	SW	01						
2600143-SW12	03			15000	493540	782860	SW	01						
2600143-SW13	03			15000	492000	784840	SW	01						
2600143-SW11	03			15000	492000	779560	SW	01						
2600143-SW25	03			15000	506740	774610	SW	01						
2600143-SW7	03			15000	492200	774280	SW	01						
2600143-SW32	03			8000	490900	762500	SW	01						
2600143-SW14	03			10000	490900	494200	SW	01						
2600143-SW24	03			20000	506740	775600	SW	01						
2600143-SW22	03			20000	506740	786160	SW	01						
2600143-SW19	03			15000	506740	790120	SW	01						
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
2600157-1	172 01	3.00 02	60	200	352329	807318	GW	03						
2600157-SW	172 01			6000	353356	809253	SW	01						
2600159 1656.75	03	609.78	02	26	7/87	AG	GW	62	CPI	13	0.8	15	3602	0.85
2600159-5-1	171 01	12.00 02	256	540	322137	823141	GW	04						
2600159-5-3	171 01	12.00 02	256	414	323063	822127	GW	04						
2600159-5-4	171 01	12.00 02	240	437	325459	822376	GW	04						
2600159-5-5	171 01	12.00 02	275	463	321873	819489	GW	04						
2600159-6-2	171 01	12.00 02	256	624	319877	823467	GW	04						
2600159-6-5M	171 03	12.00 02	275	464	318828	822294	GW	04						
2600159-6-7	171 01	12.00 02	260	653	318664	819655	GW	04						
2600159-8-3	171 01	12.00 02	280	675	321023	817226	GW	04						
2600159-17-6	171 01	12.00 02	256	750	326040	809745	GW	04						
2600159-18-1	171 01	12.00 02	258	500	316704	812823	GW	04						
2600159-18-3	171 01	12.00 02	265	500	316782	811624	GW	04						
2600159-18-4	171 01	12.00 02	260	284	319761	811683	GW	04						
2600159-8-4	171 01	12.00 02	286	360	322311	816104	GW	04						
2600159-8-8M	171 03	12.00 02	256	602	326027	814953	GW	04						
2600159-17-3	171 01	12.00 02	278	549	322610	811641	GW	04						
2600159-17-5	171 01	12.00 02	265	549	322686	810071	GW	04						
2600159-18-5	171 01	12.00 02	256	647	316970	809988	GW	04						
2600159-18-6	171 01	12.00 02	250	669	319681	809585	GW	04						
2600159-18-7	171 01	12.00 02	260	617	316988	809041	GW	04						
2600159-19-3	171 01	12.00 02	226	363	316679	804144	GW	04						
2600159-19-4	171 01	12.00 02	245	220	319878	805272	GW	04						
2600159-19-6	171 03	12.00 02	235	454	319433	803754	GW	04						
2600159-20-1	171 01	12.00 02	250	454	322200	807729	GW	04						
2600159-20-2	171 01	12.00 02	268	422	323691	807936	GW	04						
2600159-20-3	171 03	12.00 02	265	520	326113	807729	GW	04						
2600159-20-4	171 01	12.00 02	255	520	321977	806185	GW	04						
2600159-20-5	171 01	12.00 02	285	533	325445	806125	GW	04						

2600159-20-6	171 01	12.00 02	230	160	02	367	321931	804877	GW	04
2600159-20-7	171 01	12.00 02	265	162	02	296	323727	804990	GW	04
2600159-20-8	171 01	12.00 02	215	160	02	745	322052	803573	GW	04
2600159-20-10	171 01	12.00 02	241	193	02	468	322458	807854	GW	04
2600159-30-1	171 01	12.00 02	241	193	02	448	315632	801693	GW	04
2600159-6-1M	171 03	12.00 02	250	163	02		316679	823236	GW	04
2600159-8-1	171 01	12.00 02	300	206	02	415	322165	818192	GW	04
2600159-8-2	171 01	12.00 02	280	195	02	505	324626	818260	GW	04
2600159-30-2	171 01	12.00 02	285	187	02	753	324661	817352	GW	04
2600159-30-6	171 01	12.00 02	230	167	02	530	320390	802235	GW	04
2600159-30-6	171 01	12.00 02	215	165	02	610	320682	799695	GW	04
2600159-30-7	171 03	12.00 02	226	190	02		315630	798523	GW	04
2600159-30-8M	171 03	12.00 02	225	175	02		319958	797891	GW	04
2600159-8-7	171 01	12.00 02	256	210	02	603	321715	814448	GW	04
2600159-18-2	171 01	12.00 02	280	165	02	611	319722	812899	GW	04
2600159-20-9	171 01	12.00 02	250	180	02	457	324622	803733	GW	04
2600159-5-2	171 01	12.00 02	250	167	02	470	324395	823193	GW	04
2600159-8-6	171 01	12.00 02	255	210	02	613	324786	815681	GW	04
2600159-17-4	171 01	12.00 02	285	187	02	736	324900	811905	GW	04
2600159-19-2M	171 03	12.00 02	285	202	02	559	316916	806209	GW	04
2600159-30-4	171 01	12.00 02	215	165	02	388	319534	801181	GW	04
2600159-6-4	171 01	10.00 02	250	162	02	224	316833	820323	GW	04
2600159-6-3E	171 01	8.00 02	90	68	02	236	316180	822065	GW	03
2600159-6-3W	171 01	8.00 02	84	69	02	236	317222	822090	GW	03
2600159-6-1	171 01	8.00 02	125	65	02	297	316716	822663	GW	04
2600159-6-5	171 01	8.00 02	125	85	02	446	318835	821930	GW	04
2600159-6-6	171 01	8.00 02	110	80	02	467	315542	820169	GW	04
2600159-30-5	171 01	8.00 02	240	155	02	606	316320	800544	GW	04
2600159-19-6	171 01	12.00 02	230	158	02	234	320283	804663	GW	04
2600159-30-7	171 01	12.00 02	230	159	02	748	317685	798807	GW	04
2600159-3	171 03	8.00 02	106	56	02	236	317496	806601	GW	03
2600159-19-1	171 01	8.00 02	105	60	02	310	324969	809227	GW	03
2600159-20-3N	171 01	12.00 02	140	85	02	280	326135	808257	GW	03
2600159-20-3S	171 01	8.00 02	140	85	02		326107	807677	GW	04
2600161 229.98	03	84.64 02	26 7/87	AG	GW	2	R. B. GROVES			
2600161-1	171 01	10.00 02	220	160	02	1000	316750	816750	GW	04
2600161-2	171 02	10.00 02	220	160	02	1000	318250	816750	GW	04
2600162 94.74	03	35.97 02	26 7/87	AG	GW	2	A. B. CURRY			
2600162-4	207 01	8.00 02	55	42	02	800	431141	707413	GW	01
2600162-5	207 01	8.00 02	55	42	02	800	431095	705351	GW	01
2600220 3.29	03	.274 02	26 6/85	AG	GW	21	RICHARD ROBERTS			
2600220-6	172 01	10.00 02	190	80	02	400	368800	831996	GW	04
2600220-7	172 01	10.00 02	190	80	02	500	366913	831916	GW	04
2600220-8	172 01	10.00 02	190	80	02	500	363061	829528	GW	04
2600220-9	172 01	10.00 02	190	80	02	500	366580	826409	GW	04
2600220-10	172 01	8.00 02	190	80	02	400	372817	823731	GW	04
2600220-11	172 01	8.00 02	190	80	02	400	372788	822921	GW	04
2600220-12	172 01	8.00 02	190	80	02	400	368803	823287	GW	04
2600220-13	172 01	8.00 02	190	80	02	400	367004	824026	GW	04
2600220-14	172 01	8.00 02	190	80	02	400	367118	823409	GW	04
2600220-15	172 01	8.00 02	190	80	02	400	363683	824000	GW	04
2600220-16	172 01	8.00 02	190	80	02	400	361399	824333	GW	04

13 0.8 15 500 0.85

13 0.8 26 125 0.50

20 0.8 26 0.50

2600220-17	172 01	8.00 02	190	80	02	400	361575	823393	GW	04
2600220-18	172 01	8.00 02	190	80	02	400	361470	821724	GW	04
2600220-19	172 01	8.00 02	190	80	02	400	361677	820521	GW	04
2600220-20	172 01	6.00 02	160	80	02	250	369266	800074	GW	04
2600220-21	172 01	6.00 02	160	80	02	250	369282	798781	GW	04
2600220-1	154 01	8.00 02	190	80	02	250	361589	838937	GW	04
2600220-2	154 01	8.00 02	190	80	02	250	363360	838986	GW	04
2600220-3	154 01	8.00 02	190	80	02	250	371659	839445	GW	04
2600220-4	154 01	8.00 02	190	80	02	250	372151	839103	GW	04
2600220-5	154 01	8.00 02	190	80	02	250	376322	835107	GW	04
2600222	270.90	99.71	02	26	5/87	AG	NEIL JOLLY			
2600222-1	172 02	12.00 02	200	140	105	02	546	344508	809208	GW 04
2600222-2	172 02	12.00 02	200	140	105	02	546	344624	810178	GW 04
2600222-3	172 02	12.00 02	200	140	105	02	546	344715	811329	GW 04
2600222-4	172 02	12.00 02	200	140	105	02	546	344721	812160	GW 04
2600222-5	172 02	12.00 02	200	140	105	02	546	344682	812984	GW 04
2600227	635.30	233.79	02	26	6/87	AG	JO MAR EL CITRUS			
2600227-1	172 02	10.00 02	90	150	01	429	338222	805258	GW	03
2600227-2	172 02	10.00 02	240	150	01	429	340808	805221	GW	04
2600227-3	172 02	10.00 02	90		01	429	338244	804768	GW	03
2600227-4	172 02	10.00 02	90		01	429	338309	803803	GW	03
2600227-5	172 02	10.00 02	90		01	429	341216	803738	GW	03
2600227-6	172 02	10.00 02	90		01	429	343759	802103	GW	03
2600227-7	172 02	10.00 02	90		01	429	344357	802144	GW	03
2600227-8	172 02	10.00 02	90		01	429	343523	800927	GW	03
2600227-9	172 02	10.00 02	240	150	01	455	344823	800890	GW	04
2600227-10	172 02	10.00 02	90		01	455	343426	800173	GW	03
2600227-11	172 02	10.00 02	90		01	455	343503	799119	GW	03
2600227-12	172 02	10.00 02	240	150	01	455	345020	798821	GW	04
2600227-13	172 02	10.00 02	240	150	01	385	347082	801932	GW	04
2600227-14	172 02	10.00 02	240	150	01	555	348575	802344	GW	04
2600227-15	172 02	10.00 02	240	150	01	585	348413	799726	GW	04
2600227-16	172 02	10.00 02	240	150	01	450	350865	802700	GW	03
2600227-17	172 02	10.00 02	90		01	360	349952	801726	GW	03
2600227-18	172 02	10.00 02	240	150	01	590	353406	799894	GW	04
2600227-19	172 02	10.00 02	90		01	450	353406	799894	GW	03
2600227-20	172 02	10.00 02	90		01	450	353406	799894	GW	04
2600227-21	172 01	8.00 02	160	80	01	520	353406	799894	GW	04
2600227-22	172 02	10.00 02	240	150	01	520	353406	799894	GW	03
2600227-23	172 02	10.00 02	90		01	520	353406	799894	GW	03
2600227-1	172 04	8.00 02	60		01	520	355393	798510	GW	01
2600227-2	172 04	6.00 02	18		01	520	354247	803011	GW	01
2600227-3	172 04	8.00 02	132		01	550	351555	799882	GW	03
2600227-4	172 04	8.00 02	100		01	550	350382	802202	GW	03
2600227-5	172 04	8.00 02	100		01	550	350359	802582	GW	03
2600227-6	172 04	8.00 02	100		01	550	356281	799530	GW	03
2600227-7	172 04	8.00 02	132		01	550	348585	799876	GW	03
2600227-8	172 04	8.00 02	132		01	550	348631	799498	GW	03
2600227-9	172 04	8.00 02	78		01	550	343911	798942	GW	03
2600227-10	172 04	8.00 02	40		01	550	342655	799001	GW	01
2600227-11	172 04	8.00 02	30		01	550	343629	799715	GW	01
2600227-12	172 04	6.00 02	47		01	550	346779	802240	GW	01
2600227-14	172 04	8.00 02	47		01	550	346863	801688	GW	01
2600227-13	172 04	8.00 02	47		01	550	346539	801333	GW	01

13 1.5 15 0.85

13 0.8 15 1381 0.85

2600266-8	192 01	8.00 02				800	420596	764019	GW	01			
2600266-9	192 01	6.00 02				600	421775	762726	GW	01			
2600266-10	192 01	8.00 02				800	421814	761267	GW	01			
2600266-11	192 01	8.00 02	57			800	422523	764387	GW	01			
2600266-12	192 01	8.00 02	56			800	424984	762504	GW	01			
2600267	1346.06										60	0.8	26 1350 0.50
	03	285.64 02	26	12/88	AG	GW							
2600267-6	192 01	6.00 02				600	COLLIER ENTERPRISES						
2600267-7	192 01	6.00 02				600	419105	765877	GW	01			
2600267-8	192 01	8.00 02				800	420365	764665	GW	01			
2600267-21	191 01	8.00 02	60			800	420596	764019	GW	01			
2600267-22	191 01	8.00 02	54			800	415976	762346	GW	01			
2600267-23	191 01	8.00 02	52			800	412636	761568	GW	01			
2600267-24	191 01	8.00 02	50			800	411813	764282	GW	01			
2600267-25	191 01	8.00 02	61			800	411684	765693	GW	01			
	03	35.97 02	26	7/87	AG	GW							
2600270	97.74					2	R. A. BETHA - M & H FARMS				13	0.8	26 125 0.50
2600270-1	207 01	6.00 02	55	42		800	427769	706419	GW	01			
2600270-2	207 01	8.00 02	55	42		800	428351	707662	GW	01			
2600277	234.58					5	TURNER CORPORATION				13	0.8	15 510 0.85
2600277-1	172 02	12.00 02	200	140	02	420	338465	813190	GW	04			
2600277-2	172 02	12.00 02	200	140	02	425	338080	811812	GW	04			
2600277-3	172 02	12.00 02	200	140	02	465	339065	810550	GW	04			
2600277-4	172 02	12.00 02	200	140	02	550	339268	808882	GW	04			
2600277-5	172 02	12.00 02	200	140	02	500	341436	811270	GW	04			
2600279	582.28					4	GUTWEIN GROVES				13	0.8	15 1179 0.85
2600279-35-4	172 02	8.00 02	240		02	600	337933	794070	GW	04			
2600279-35-5	172 02	8.00 02	240		02	600	338011	792717	GW	04			
2600279-35-6	172 02	8.00 02	240		02	600	341660	793542	GW	04			
2600279-36-1	172 02	8.00 02	240		02	600	345252	796690	GW	04			
2600279-SW	172					1000	399299	854351	SW	01			
2600279-SW	172					3000	399379	848999	SW	01			
2600281	200.54					6	TURNER CORPORATION				13	0.8	15 436 0.85
2600281-32-1	171 02	10.00 02	260	120	02	420	323820	796484	GW	04			
2600281-32-2	171 02	10.00 02	260	120	02	415	324721	796526	GW	04			
2600281-32-3	171 02	10.00 02	260	120	02	532	321831	795916	GW	04			
2600281-32-4	171 02	10.00 02	260	120	02	426	322958	796469	GW	04			
2600281-32-5	171 02	10.00 02	260	120	02	527	322328	793747	GW	04			
2600281-32-6	171 02	10.00 02	260	120	02	422	326034	794093	GW	04			
2600282	515.15					11	USSC - DEVIL'S GARDEN CITRUS				13	0.8	26 1120 0.85
2600282-	193 02	10.00 02	100	60	02	600	471357	763117	GW	03			
2600282-	193 02	10.00 02	100	60	02	600	471064	774238	GW	03			
2600282-	193 02	10.00 02	100	60	02	600	473370	774329	GW	03			
2600282-	193 02	10.00 02	100	60	02	600	471225	776488	GW	03			
2600282-	193 02	10.00 02	100	60	02	600	473485	776608	GW	03			
2600282-	193 02	10.00 02	100	60	02	600	471157	779119	GW	03			
2600282-	193 02	10.00 02	100	60	02	600	473378	779180	GW	03			
2600282-	193 02	10.00 02	100	60	02	600	471100	781556	GW	03			
2600282-	193 02	10.00 02	100	60	02	600	473543	781591	GW	03			
2600282-	193 02	10.00 02	100	60	02	600	470642	784815	GW	03			
2600282-	193 02	10.00 02	100	60	02	600	470070	786915	GW	03			

2600300	1294.31	03	476.38	26	1/89	AG	GW	54	COLLIER ENTERPRISES-CROW'S NEST	13	0.8	26	2816	0.85
2600300-79	192 01	192 01	8.00 02	49				800	438402 758983 GW 01					
2600300-80	192 01	192 01	8.00 02	47				800	438418 758070 GW 01					
2600300-81	192 01	192 01	8.00 02	48				800	438418 757570 GW 01					
2600300-82	192 01	192 01	8.00 02	48				800	438532 757130 GW 01					
2600300-83	192 01	192 01	8.00 02	50				800	440035 760460 GW 01					
2600300-84	192 01	192 01	20.00 02	91				1000	440018 759106 GW 03					
2600300-85	192 01	192 01	8.00 02	52				800	441398 759753 GW 01					
2600300-86	192 01	192 01	8.00 02	51				800	441400 758845 GW 01					
2600300-87	192 01	192 01	8.00 02	37				800	441418 757692 GW 01					
2600300-88	192 01	192 01	8.00 02	42				800	441958 759963 GW 01					
2600300-89	192 01	192 01	8.00 02	51				800	435540 751806 GW 01					
2600300-90	192 01	192 01	8.00 02	60				800	436325 747380 GW 01					
2600300-91	192 01	192 01	6.00 02	65				600	435251 746328 GW 01					
2600300-103	192 01	192 01	9.00 02	62				900	435781 743741 GW 01					
2600300-105	192 01	192 01	9.00 02	62				900	433723 742229 GW 01					
2600300-183	192 01	192 01	6.00 02	102				600	445642 760007 GW 03					
2600300-184	192 01	192 01	6.00 02	84				600	446982 758192 GW 03					
2600300-11	192 01	192 01	8.00 02	57				800	422523 764387 GW 01					
2600300-12	192 01	192 01	8.00 02	56				800	424984 762504 GW 01					
2600300-13	192 01	192 01	1.50 02					200	427700 765453 GW 01					
2600300-14	192 01	192 01	8.00 02	78				800	430831 765560 GW 03					
2600300-15	192 01	192 01	6.00 02	87				600	427577 764647 GW 03					
2600300-16	192 01	192 01	6.00 02	56				600	429008 763378 GW 03					
2600300-17	192 01	192 01	6.00 02	61				600	431358 764492 GW 03					
2600300-18	192 01	192 01	6.00 02	64				800	431315 763462 GW 03					
2600300-19	192 01	192 01	8.00 02	65				600	431349 762319 GW 03					
2600300-20	192 01	192 01	6.00 02	53				600	431018 761702 GW 03					
2600300-21	192 01	192 01	6.00 02					200	438156 763268 GW 03					
2600300-22	192 01	192 01	2.00 02	83				800	443679 765730 GW 03					
2600300-23	192 01	192 01	8.00 02					900	444544 765621 GW 03					
2600300-24	192 01	192 01	9.00 02					800	447023 765509 GW 03					
2600300-25	192 01	192 01	8.00 02	47				800	443743 763430 GW 03					
2600300-26	192 01	192 01	8.00 02	80				800	444208 762719 GW 03					
2600300-27	192 01	192 01	8.00 02					600	446915 763937 GW 03					
2600300-28	192 01	192 01	6.00 02					800	451818 766080 GW 03					
2600300-29	192 01	192 01	8.00 02					800	448966 765338 GW 03					
2600300-30	192 01	192 01	8.00 02					600	448508 764017 GW 03					
2600300-31	192 01	192 01	6.00 02					800	451571 764181 GW 03					
2600300-32	192 01	192 01	8.00 02					600	451842 762961 GW 03					
2600300-33	192 01	192 01	8.00 02					800	454251 765994 GW 03					
2600300-34	192 01	192 01	12.50 02	25				1000	456946 765545 GW 01					
2600300-35	192 01	192 01	8.00 02	61				800	454105 764241 GW 03					
2600300-36	192 01	192 01	8.00 02					600	454727 762996 GW 03					
2600300-37	192 01	192 01	12.00 02					1000	456409 764697 GW 03					
2600300-38	192 01	192 01	12.00 02					800	458707 763108 GW 03					
2600300-	192 02	192 02	8.00 02	100				1400	441715 762384 GW 03					
2600300-	192 02	192 02	12.00 02	100				1400	438383 762336 GW 03					
2600300-	192 02	192 02	12.00 02	100				1400	438666 765316 GW 03					
2600300-	192 02	192 02	12.00 02	100				1400	434626 762843 GW 03					
2600300-	192 02	192 02	12.00 02	100				1400	433174 765174 GW 03					
2600300-	192 02	192 02	12.00 02	100				1400	435777 765175 GW 03					
2600300-	192 02	192 02	12.00 02	100				1400	430987 762376 GW 03					
2600300-	192 02	192 02	12.00 02	100				1400	427971 762257 GW 03					
2600300-	192 02	192 02	12.00 02	100				1400	430434 765419 GW 03					

2600315	459.95	03	169.29	02	26	8/88	AG	BOTH	22	6	ALICO	835600	GW	04	13	0.8	15	1000	0.85
2600315-		155	02	8.00	02	270	240	02	600		415400	835600	GW	04					
2600315-		155	02	8.00	02	270	240	02	600		415400	833600	GW	04					
2600315-		155	02	8.00	02	270	240	02	600		414800	840400	GW	04					
2600315-		155	02	8.00	02	270	240	02	600		412900	836300	GW	04					
2600315-		155	02	8.00	02	270	240	02	600		409800	836500	GW	04					
2600315-		155	02	8.00	02	270	240	02	600		410100	833300	GW	04					
2600315-		155	02	8.00	02	270	240	02	600		406100	833400	GW	04					
2600315-		155	02	8.00	02	270	240	02	600		407200	840100	GW	04					
2600315-		155	02	8.00	02	270	240	02	600		404900	838000	GW	04					
2600315-		173	02	8.00	02	270	240	02	600		406700	836500	GW	04					
2600315-		173	02	8.00	02	270	240	02	600		413700	826000	GW	04					
2600315-		173	02	8.00	02	270	240	02	600		413700	827400	GW	04					
2600315-		173	02	8.00	02	270	240	02	600		415500	830100	GW	04					
2600315-		173	02	8.00	02	270	240	02	600		415400	831900	GW	04					
2600315-		173	02	8.00	02	270	240	02	600		409300	831900	GW	04					
2600315-		173	02	8.00	02	270	240	02	600		411100	830000	GW	04					
2600315-		173	02	8.00	02	270	240	02	600		409500	826400	GW	04					
2600315-		173	02	8.00	02	270	240	02	600		410000	822500	GW	04					
2600315-		173	02	8.00	02	270	240	02	600		410700	823100	GW	04					
2600315-		173	02	8.00	02	270	240	02	600		406300	826800	GW	04					
2600315-		173	02	8.00	02	270	240	02	600		405900	823900	GW	04					
2600315-		173	02	8.00	02	270	240	02	600		405900	818900	GW	04					
2600315-		173	02	8.00	02	270	240	02	600		405100	830400	GW	04					
2600315-		173	02	8.00	02	270	240	02	1000		415600	827600	SW	01					
2600315-			02						1000		415600	830800	SW	01					
2600315-			02						1000		415500	834300	SW	01					
2600315-			02						1200		415500	837800	SW	01					
2600315-			02						4500		412000	824100	SW	01					
2600315-			02						1500		407200	841100	SW	01					
2600325	6.52	03	2.4	02	26	12/88	AG	GW	2	ABC FARMS					13	0.8	15	12	0.75
2600325-		172	01	12.00	02	200	140	02	800		364625	798706	GW	04					
2600325-		172	02	12.00	02	200	140	02	800		364647	798893	GW	04					

COLLIER COUNTY MODEL BOUNDARY OVERLAP AREA OF LEE COUNTY

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

PERMIT NO.	AN. ALL.	ALL. UNT.	MAX. MO.	DATE USE SRC. NO.	SW	PMPS	OWNER	CROP TYPE	SOIL TYPE	RAIN ST	IRR ACRES	IRR EFF
3600005												
3600005-1												
3600005-2												
3600005-SW1												

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

PERMIT NO.	FACILITY NUMBER	QUAD. NO.	STS DIA.	WELL CODE	DPH CODE	TD	CD	PMP INT	PUMP TYPE	PUMP CAP.	MTR?	XPLNR	YPLNR	SRC	AQ	COMMENTS
3600005	368.27	03				36	12/87	AG	BOTH	2	1	YODER BROTHERS				20 0.8 2 120 0.50
	3600005-1	152		6.00	02	120				75		293842	865724	GW	04	
	3600005-2	152		6.00	02	120				75		264470	859569	GW	04	
	3600005-SW1	152										273845	864587	SW	01	
3600016	69.00	03				36	7/77	AG	GW	10		T.H. BAKER				20 0.8 15 213 0.50
	3600016-1	134	01	4.00	02	20				400		355671	880035	GW	01	
	3600016-2	134	01	4.00	02	20				400		347021	878703	GW	01	
	3600016-3	153	01	4.00	02	20				400		305910	877692	GW	01	
	3600016-4	153	01	4.00	02	700				400		306001	877458	GW	08	
	3600016-5	153	01	4.00	02	20				400		305987	876262	GW	01	
	3600016-6	153	01	1.00	02	20				100		306006	875238	GW	01	
	3600016-7	153	01	2.00	02	20				200		304774	877847	GW	01	
	3600016-8	153	01	2.00	02	10				200		304928	877488	GW	01	
	3600016-9	153	01	1.50	02	20				150		304778	877080	GW	01	
	3600016-10	153	01	2.00	02	20				200		304789	876303	GW	01	
3600019	62.78	03				36	4/78	GLF	SW	310		2 CITY OF FT. MYERS				15 0.8 2 55 0.75
	3600019-SW1	168	01		02					490		212680	828744	SW	01	PERMIT IS REISSUED
	3600019-SW2	168	01		02							212786	828715	SW	01	
3600049	81.00	03		31.40	02	36	5/78	AGR	GW	1		LEHIGH ACRES DEVEL.				15 0.8 2 120 0.50
	3600049-1	170	01	6.00	02	80				1000		294506	812407	GW	04	
3600061	139.16	03		8.00	02	36	9/78	AGR	GW	11		CORKSCREW GROWERS INC				60 0.8 2 640 0.50
	3600061-1	203	01	8.00	02	60				1500		273701	722353	GW	03	
	3600061-2	203	01	8.00	02	60				1500		273752	725875	GW	03	
	3600061-3	203	01	8.00	02	60				1500		273240	726645	GW	03	
	3600061-4	203	01	8.00	02	60				1500		271301	726711	GW	03	
	3600061-5	203	01	8.00	02	60				1500		271344	723168	GW	03	
	3600061-6	203	01	8.00	02	60				1500		271066	723201	GW	03	
	3600061-7	203	01	8.00	02	60				1500		270946	723936	GW	03	
	3600061-8	203	01	8.00	02	60				1500		268747	723957	GW	03	
	3600061-9	203	01	8.00	02	60				1500		271066	725474	GW	03	
	3600061-10	203	01	8.00	02	60				1500		268686	725526	GW	03	
	3600061-11	203	01	8.00	02	60				1500		268695	726763	GW	03	
3600062	109.17	03		240.00	02	36	9/78	AGR	GW	4		JOHNSON FARMS				61 0.8 2 300 0.50
	3600062-1	203	01	8.00	02	20				1600		279644	725535	GW	01	
	3600062-2	203	01	8.00	02	20				1600		280993	725523	GW	01	
	3600062-3	203	01	8.00	02	20				1600		282079	725509	GW	01	
	3600062-4	203	01	8.00	02	20				1600		283588	725489	GW	01	

3600075	3600075-1	6.29	03	153 01	2.00 02	36 11/78 AG	GW	4	50	VOSS GROVES	303564 861642 GW 01	13	0.8	15	17	0.50
	3600075-2		153 01	2.00 02	40			50			303659 861431 GW 01					
	3600075-3		153 01	2.00 02	40			50			303483 861073 GW 01					
	3600075-4		153 01	2.00 02	40			50			303512 860829 GW 01					
3600076	3600076-1	18.48	03	189 01	10.00 02	36 12/78 AGR	GW	2	2200	CHARLES CONLY	298188 763585 GW 01	61	0.8	2	85	0.50
	3600076-2		189 01	4.00 02	28	20		120			298886 763596 GW 01					
3600077	3600077-1	156.00	03	189 01	64.80 02	36 12/78 AGR	GW	3	500	TONY ROSEBOUGH	304353 764429 GW 01	13	0.8	2	200	0.50
	3600077-2		189 01	6.00 02				500			303337 764443 GW 01					
	3600077-3		189 02	8.00 02				500			303445 761875 GW 01					
3600084	3600084-1	1330.00	03	188 01	8.00 02	36 1/79 AGR	GW	35		SIX L'S FARM INC.	278262 764408 GW 01	60	0.8	2	1300	0.50
	3600084-2		188 01	8.00 02	40	40		2000			279296 764416 GW 01	20	0.8	2	1220	0.50
	3600084-3		188 01	8.00 02	40	40		2000			281094 764464 GW 01					
	3600084-4		188 01	8.00 02	40	40		2000			283353 764506 GW 01					
	3600084-5		188 01	8.00 02	40	40		2000			283978 764014 GW 01					
	3600084-6		188 01	8.00 02	40	40		2000			276864 763760 GW 01					
	3600084-7		188 01	12.00 02	80			3000			276500 763242 GW 03					
	3600084-8		188 01	8.00 02	40			2000			277319 763160 GW 01					
	3600084-9		188 01	8.00 02	40			2000			277365 762877 GW 01					
	3600084-10		188 01	8.00 02	40			2000			280011 762397 GW 01					
	3600084-11		188 01	8.00 02	40			2000			277269 761344 GW 01					
	3600084-12		188 01	8.00 02	40			2000			280336 761456 GW 01					
	3600084-13		188 01	8.00 02	40			2000			281857 760021 GW 01					
	3600084-14		188 01	8.00 02	40			2000			277324 760019 GW 01					
	3600084-15		188 01	8.00 02	40			2000			277419 759512 GW 01					
	3600084-16		188 01	8.00 02	40			2000			273355 759696 GW 01					
	3600084-17		188 01	8.00 02	40			2000			274926 759167 GW 01					
	3600084-18		188 01	8.00 02	40			2000			276776 759176 GW 01					
	3600084-19		188 01	8.00 02	40			2000			279806 759051 GW 01					
	3600084-20		188 01	8.00 02	40			2000			281114 759157 GW 01					
	3600084-21		188 01	8.00 02	40			2000			283308 758819 GW 01					
	3600084-22		188 01	8.00 02	40			2000			281851 758024 GW 01					
	3600084-23		188 01	5.00 02	40			1500			275977 758542 GW 01					
	3600084-24		188 01	8.00 02	40			2000			273507 757157 GW 01					
	3600084-25		188 01	5.00 02	40			1500			276996 757123 GW 01					
	3600084-26		188 01	5.00 02	40			1500			277845 757206 GW 01					
	3600084-27		188 01	12.00 02	80			3000			279105 756252 GW 01					
	3600084-28		188 01	8.00 02	40			2000			278583 755463 GW 01					
	3600084-29		188 01	8.00 02	40			2000			282923 755988 GW 01					
	3600084-30		188 01	8.00 02	40			2000			276116 755379 GW 01					
	3600084-31		188 01	8.00 02	40			2000			276254 753711 GW 01					
	3600084-32		188 01	8.00 02	40			2000			277608 752939 GW 01					
	3600084-33		188 01	8.00 02	40			2000			281935 753985 GW 01					
	3600084-34		188 01	8.00 02	40			2000			283539 753715 GW 01					
	3600084-35		188 01	8.00 02	40			2000			282803 753102 GW 01					
3600087	3600087-1	82.45	03	169 01	75.80 02	36 1/79 AGR	GW	3	302	HARVEY HOBBS	237263 827622 GW 06	61	0.8	2	380	0.50

3600087 2	169 01	6.00 02				453	234214 824898 GW 01
3600087-3	169 01	6.00 02				500	232843 825303 GW 01
3600088	107.00	32.70 02	36 1/79	GLF GW	7		SEVEN LAKES ASSOCIATION
3600088-1	168 01	4.00 02	225	140	70		213349 807505 GW 05
3600088-2	168 01	6.00 02			150		212481 807503 GW 05
3600088-3	168 01	4.00 02			180		213625 806963 GW 05
3600088-4	168 01	6.00 02	360	180	150		211271 807109 GW 06
3600088-5	168 01	6.00 02	605	260	225		211974 807063 GW 06
3600088-6	168 04	02 440	440		120		211587 807423 GW 06
3600088 7	168 04	02 220	220		85		211765 807256 GW 05
3600089	309.07	02	36 1/79	AGR BOTH	3		2 ZIPPERER FARMS/BUCKINGHAM FARM
3600089-1	151 01	6.00 02	20		1200		241524 834546 GW 01
3600089-2	151 01	6.00 02	20		1200		241495 833983 GW 01
3600089-3	151 01	6.00 02	20		1500		241495 833781 GW 01
3600089-SW1	151 01	02			1000		239167 835936 SW 01
3600089-SW2	169 01	02			5000		241768 830903 SW 01
3600090	13.04	29.90 02	36 2/79	AGR GW	2		R.G. BEARDSLEE
3600090-1	189 01	8.00 02	23	20	1500		299208 768555 GW 01
3600090-2	189 01	8.00 02	23	20	1500		299590 768522 GW 01
3600093	278.00	03 700.00 02	36 2/79	AGR GW	1		TROST INTERNATIONAL LTD. INC.
3600093-1		02			600		GW 01 PERMIT MISSING
3600094	13.04	13.10 02	36 2/79	AGR GW	5		PENINSULAR GROVES INC.
3600094-1	188 01	13.00 02	130	25	1200		295179 760036 GW 03
3600094-2	188 01	10.00 02	130	40	1200		295494 760028 GW 03
3600094-3	188 01	10.00 02	130	40	1200		296360 760070 GW 03
3600094-4	189 01	10.00 02	130	40	1200		296717 760067 GW 03
3600094-5	189 01	8.00 02	190	160	500		295927 759967 GW 04
3600095	10.85	10.20 02	36 2/79	AGR GW	5		PENINSULAR GROVES INC
3600095-1	188 01	13.00 02	100	40	1200		286682 770356 GW 03
3600095-2	188 01	13.00 02	100	40	1200		286725 770845 GW 03
3600095-3	188 01	13.00 02	100	40	1200		286784 771461 GW 03
3600095-4	188 01	13.00 02	100	40	1200		286854 771986 GW 03
3600095-5	188 01	8.00 02	200	116	500		287130 771500 GW 04
3600101	6.19	5.05 02	36 2/79	AGR GW	4		SOUTHALL CORP.
3600101-1	187 01	02 160	50		300		231174 747034 GW 04
3600101-2	187 01	02 40	40		200		229775 746990 GW 01
3600101-3	187 01	02 60	50		50		229796 746854 GW 03
3600101-4	187 01	02 45	40		90		229773 746593 GW 01
3600102	1302.00	620.00 02	36 2/79	AGR GW	15		WALDEE BROTHERS FARMS
3600102-5	188 01	8.00 02	40	25	1800		266393 786525 GW 01
3600102-6	170 01	8.00 02	40	25	1800		262551 791952 GW 01
3600102-7	170 01	8.00 02	40	25	1800		262659 789985 GW 01
3600102-8	170 01	8.00 02	40	25	1800		260899 791958 GW 01
3600102-9	170 01	8.00 02	40	25	1800		261024 789758 GW 01
3600102-10	170 01	8.00 02	40	25	1800		260099 788418 GW 01

63 0.8 2 800 0.50
WELLS #1-4,16,18-21 ARE NO LONGER IN USE.

3600105	514.90	03	157.00	02	36	3/79	AGR GW	4	DON DRAKE	260445	787059	GW	01	15	0.8	2	600	0.50
	3600105-1	187 01	6.00	02	45	21		1800	248454	764905	GW	01						
	3600105-2	187 01	6.00	02	45	21		600	248188	761871	GW	01						
	3600105-3	187 01	10.00	02	40	21		500	249928	763770	GW	01						
	3600105-4	187 01	6.00	02	40	21		500	242905	766512	GW	01						
3600106	2.61	03	4.95	02	36	3/79	AGR GW	5	DON DRAKE	229342	773150	GW	01	70	0.8	2	12	0.50
	3600106-1	187 01	4.00	02	50	32		300	228947	773041	GW	01						
	3600106-2	187 01	4.00	02	50	32		1000	228714	773186	GW	01						
	3600106-3	187 01	3.00	02	50	32		200	228697	772901	GW	01						
	3600106-4	187 01	3.00	02	50	32		200	228394	772929	GW	01						
	3600106-5	187 01	2.00	02	50	32		100										
3600108	178.91	03	6.00	02	36	3/79	AGR GW	9	SMITH & WICKS FARMS	259035	782241	GW	01	61	0.8	2	823	0.50
	3600108-1	188 01	6.00	02	40	25		1800	259519	781928	GW	01						
	3600108-2	188 01	6.00	02	40	25		1800	263645	779707	GW	01						
	3600108-3	188 01	6.00	02	40	25		1800	267941	770186	GW	01						
	3600108-4	188 01	6.00	02	40	25		1800	269358	776996	GW	01						
	3600108-5	188 01	6.00	02	40	25		1800	269277	778961	GW	01						
	3600108-6	188 01	6.00	02	40	25		1800	255818	771879	GW	01						
	3600108-7	188 01	6.00	02	40	25		1800	254517	771444	GW	01						
	3600108-8	187 01	6.00	02	40	25		1800	252922	770999	GW	01						
	3600108-9	187 01	6.00	02	40	25		1800										
3600112	48.88	03	75.60	02	36	3/79	AGR GW	4	E.M. GRIFFITHS & G.P. PEAGLER, CO	232589	808004	GW	01	61	0.8	2	150	0.50
	3600112-1	169 01	6.00	02	20	20		1200	232916	808006	GW	01						
	3600112-2	169 01	6.00	02	20	20		900	233814	808019	GW	01						
	3600112-3	169 01	8.00	02	20	20		900	234392	807990	GW	01						
	3600112-4	169 01	8.00	02	20	20		900										
3600113	40.10	03	10.50	02	36	3/79	AGR GW	2	CHARLES W. FLINT	298577	817903	GW	01	20	0.8	2	40	0.50
	3600113-1	171 01	6.00	02	80			500	298600	818331	GW	01						
	3600113-2	171 01	2.00	02	200	200		7										
3600115	17.37	03	25.20	02	36	3/79	AGR GW	3	R. E. MCMAHON	246377	807414	GW	01	61	0.8	2	50	0.50
	3600115-1	169 01	6.00	02	15	11		900	246774	807530	GW	01						
	3600115-2	169 01	6.00	02	15	11		900	246622	807765	GW	01						
	3600115-3	169 01	6.00	02	15	11		900										
3600117	66.48	03	80.60	02	36	3/79	AGR GW	4	R.E. MCMAHON	234607	814031	GW	01	61	0.8	2	160	0.75
	3600117-1	169 01	6.00	02	15	11		1000	235486	813504	GW	01						
	3600117-2	169 01	6.00	02	15	11		1000	235808	814171	GW	01						
	3600117-3	169 01	6.00	02	15	11		1000	235808	813847	GW	01						
	3600117-4	169 01	6.00	02	15	11		1000										
3600119	141.11	03	43.20	02	36	3/79	AGR GW	3	C. FLINT					20	0.8	2	325	0.50

3600129-23-4	189 01	12.00 02	60	40	759	309702	773640 GW 01
3600129-23-5	189 01	12.00 02	54	39	542	309712	773054 GW 01
3600129-23-6	189 01	12.00 02	57	39	542	309307	773039 GW 01
3600129-23-7	189 01	12.00 02	41	34	542	308947	773002 GW 01
3600129-23-8	189 01	12.00 02	37	31	542	308476	773015 GW 01
3600129-23-9	189 01	12.00 02	42	28	542	308141	772966 GW 01
3600129-23-10	189 01	10.00 02	260	114	450	307930	773364 GW 04
3600129-23-11	189 01	12.00 02	38	31	875	307814	774813 GW 01
3600129-23-12	189 01	12.00 02	47	34	875	309913	774725 GW 01
3600129-23-13	189 01	9.00 02	225	115	175	309920	774453 GW 04
3600129-25-1	189 01	12.00 02	60	31	823	307342	772689 GW 01
3600129-25-2	189 01	12.00 02	60	33	823	307658	772695 GW 01
3600129-25-3	189 01	12.00 02	65	32	422	306764	772001 GW 01
3600129-25-4	189 01	9.00 02	302	120	450	306755	772397 GW 04
3600129-25-5	189 01	12.00 02	65	32	768	306110	772379 GW 01
3600129-25-6	189 01	12.00 02	65	40	823	305608	772324 GW 01
3600129-25-7	189 01	12.00 02	60	39	823	305354	772519 GW 01
3600129-25-8	189 01	12.00 02	55	32	823	307601	774337 GW 01
3600129-25-9	189 01	12.00 02	60	31	823	307102	774361 GW 01
3600129-25-10	189 01	12.00 02	60	34	768	306537	774191 GW 01
3600129-25-11	189 01	9.00 02	235	100	450	306281	773832 GW 04
3600129-25-12	189 01	12.00 02	60	34	768	305612	774101 GW 01
3600129-25-13	189 01	12.00 02	60	32	768	305966	774097 GW 01
3600129-26-1	189 01	12.00 02	50	35	700	309992	771303 GW 01
3600129-26-2	189 01	12.00 02	50	37	700	309560	771261 GW 01
3600129-26-3	189 01	12.00 02	60	39	875	309100	771297 GW 01
3600129-26-4	189 01	12.00 02	60	39	700	308634	771316 GW 01
3600129-26-5	189 01	9.00 02	430	227	450	307967	771879 GW 04
3600129-26-6	189 01	8.00 02	450	212	400	307961	771159 GW 04
3600129-26-7	189 01	8.00 02	65	50	545	307964	771010 GW 01
3600129-26-8	189 01	12.00 02	60	39	677	307070	771270 GW 01
3600129-26-9	189 01	12.00 02	70	35	700	306383	771198 GW 01
3600129-26-10	189 01	12.00 02	51	36	700	305819	771173 GW 01
3600129-26-11	189 01	12.00 02	43	34	700	305543	770591 GW 01
3600129-1	189 01	12.00 02	43	39	950	304747	770930 GW 01
3600129-2	189 01	12.00 02	42	36	950	304162	770937 GW 01
3600129-3	189 01	12.00 02	300	114	800	304871	772600 GW 04
3600129-4	189 01	12.00 02	40	35	950	304225	772566 GW 01
3600129-5	189 01	12.00 02	36	34	1000	303623	772528 GW 01
3600129-X7	189 01	12.00 02	53	49	885	303401	773699 GW 01
3600129-X8	189 01	12.00 02	240	140	885	302650	773753 GW 04
3600129-X9	189 01	12.00 02	38	37	885	302180	773720 GW 01
3600129-X10	189 01	12.00 02	140	127	885	302870	772487 GW 04
3600129-X11	189 01	12.00 02	38	34	885	303478	771574 GW 01
3600129-X12	189 01	12.00 02	35	32	885	302691	771197 GW 01
3600129-X13	189 01	12.00 02	230	112	885	302113	771129 GW 04
3600129-X14	189 01	10.00 02	39	36	750	302413	773138 GW 01
3600129-X15	189 01	10.00 02	47	33	830	302509	774655 GW 01
3600129-X16	189 01	10.00 02	60	36	895	302332	774552 GW 01
3600134	139,16	55.70 02	36	5/79	AGR GW	H, FLINT	20 0.8 2 640 0.50
3600134-1	188 01	6.00 02	100	645	4	280294	774863 GW 04
3600134-2	188 01	6.00 02	100	645	645	281208	774877 GW 04
3600134-3	188 01	6.00 02	100	645	645	282704	774913 GW 04
3600134-4	188 01	6.00 02	100	645	645	283964	772954 GW 04

LEHIGH ACRES DEVELOPMENT, INC														15	0.8	2	160	0.50
3600143	3600143-1	171 01	41.00	02	36	7/79	LAN GW	10	299766	808884	GW	04						
	3600143-2	171 01	8.00	02	80	60		250	300210	809836	GW	04						
	3600143-3	171 01	8.00	02	81	64		250	300546	810029	GW	04						
	3600143-4	171 01	8.00	02	80	60		300	301816	809829	GW	04						
	3600143-5	171 01	8.00	02	81	60		300	301743	810363	GW	04						
	3600143-6	171 01	8.00	02	80	62		240	300574	809308	GW	04						
	3600143-7	171 01	8.00	02	80	65		240	299845	809113	GW	04						
	3600143-8	171 01	8.00	02	80	60		240	300882	810214	GW	04						
	3600143-9	171 01	8.00	02	80	63		240	300985	810751	GW	04						
	3600143-10	171 04	8.00	02	80	64		240										
		171 03	8.00	02	80	62		240	301854	810875	GW	04						
									WELL IS CAPPED									
3600153									61	0.8	2	466	0.50					
	3600153-1	187 01	361.00	02	36	10/79	AGR GW	12	ANDREW J. NYCHYK									
	3600153-2	187 01	6.00	02	110	45		1000	238550	786958	GW	04						
	3600153-3	187 01	6.00	02	110	45		1000	239046	786937	GW	04						
	3600153-4	187 01	6.00	02	30	20		2333	239148	786769	GW	01						
	3600153-5	187 01	6.00	02	110	60		1000	239148	786769	GW	04						
	3600153-6	187 01	6.00	02	30	20		1666	239221	786571	GW	01						
	3600153-7	187 01	6.00	02	30	20		2333	239307	786433	GW	01						
	3600153-8	187 01	6.00	02	30	20		1000	238904	786593	GW	01						
	3600153-9	187 01	6.00	02	110	60		833	238460	786612	GW	04						
	3600153-10	169 01	6.00	02	103			833	238456	790644	GW	04						
	3600153-11	169 01	6.00	02	103			833	237380	790767	GW	04						
	3600153-12	169 01	6.00	02	30			1333	235523	790610	GW	01						
		187 01	6.00	02	30			1333	236976	786799	GW	01						
									WELLS #3 & 4 ARE PUMPED SIMULTANEOUSLY.									
3600154									20	0.8	2	440	0.50					
	3600154-1	169 01	115.00	02	36	10/79	AGR GW	7	ANDREW J NYCHYK RANCH									
	3600154-2	169 01	6.00	02	870	160		200	223464	805103	GW	07						
	3600154-3	169 01	6.00	02	870	160		250	223239	803593	GW	07						
	3600154-4	169 01	6.00	02	925	160		250	224579	802075	GW	07						
	3600154-5	169 01	6.00	02	35	19		666	225714	802569	GW	01						
	3600154-6	169 01	6.00	02	35	19		666	225722	802290	GW	01						
	3600154-7	169 01	6.00	02	35	15		1666	225576	807710	GW	01						
		169 01	6.00	02	35	15		1666	225765	807504	GW	01						
									20 0.8 2 440 0.50									
3600167	1248.77	03							13	0.8	2	2715	0.85					
	3600167-33	171 01	6.00	02	40	20		44	WILDCAT FARMS, LTD.									
	3600167-34	189 01	6.00	02	40	20		1200	301592	791011	GW	01						
	3600167-35	189 01	6.00	02	40	20		1200	302957	706612	GW	01						
	3600167-36	189 01	6.00	02	40	20		1200	301689	786731	GW	01						
	3600167-37	189 01	6.00	02	40	20		1200	304463	785024	GW	01						
	3600167-38	189 01	6.00	02	40	20		1200	303890	784308	GW	01						
	3600167-39	171 01	6.00	02	40	20		1200	307135	787714	GW	01						
	3600167-40	189 01	6.00	02	40	20		1200	306809	788057	GW	01						
	3600167-41	189 01	6.00	02	40	20		1200	307425	787490	GW	01						
	3600167-42	171 01	6.00	02	40	20		1200	303995	784851	GW	01						
	3600167-43	189 01	6.00	02	40	20		1200	307693	788393	GW	01						
	3600167-44	189 01	6.00	02	40	20		1200	308760	787252	GW	01						
	3600167-45	189 01	6.00	02	40	20		1200	305808	785217	GW	01						
	3600167-46	171 02	12.00	02	100	60		550	306511	795580	GW	03						
	3600167-47	171 02	12.00	02	100	60		550	308579	795562	GW	03						
	3600167-48	171 02	12.00	02	100	60		550	307234	794319	GW	03						
	3600167-49	171 02	12.00	02	100	60		550	308706	793187	GW	03						
	3600167-50	171 02	12.00	02	100	60		550	309186	791345	GW	03						
	3600167-51	171 02	12.00	02	100	60		550	308788	790512	GW	03						
	3600167-52	171 02	12.00	02	100	60		550	306631	790064	GW	03						
	3600167-53	171 02	12.00	02	100	60		550	309271	788994	GW	03						
									TO BE USED AS BACK-UP.									
									WELLS #33-44									

3600167-9	171 02	12.00 02	100	60	550	300204	791960	GW	03			
3600167-10	171 02	12.00 02	100	60	550	303594	791521	GW	03			
3600167-11	171 02	12.00 02	100	60	550	300840	789325	GW	03			
3600167-12	171 02	12.00 02	100	60	550	302677	789266	GW	03			
3600167-13	189 02	12.00 02	100	60	550	305330	787698	GW	03			
3600167-14	189 02	12.00 02	100	60	550	302191	786897	GW	03			
3600167-15	189 02	12.00 02	100	60	550	303756	786810	GW	03			
3600167-16	189 02	12.00 02	100	60	550	305518	787063	GW	03			
3600167-17	171 02	12.00 02	100	60	550	307112	788655	GW	03			
3600167-18	189 02	12.00 02	100	60	550	303246	784638	GW	03			
3600167-19	189 02	12.00 02	100	60	550	307482	783619	GW	03			
3600167-20	189 02	12.00 02	100	60	550	305615	783019	GW	03			
3600167-21	189 02	12.00 02	100	60	550	301512	781737	GW	03			
3600167-22	189 02	12.00 02	100	60	550	303386	781880	GW	03			
3600167-23	189 02	12.00 02	100	60	550	301373	779635	GW	03			
3600167-24	189 02	12.00 02	100	60	550	303436	779546	GW	03			
3600167-25	189 02	12.00 02	100	60	550	305379	780160	GW	03			
3600167-26	189 02	12.00 02	100	60	550	301125	777142	GW	03			
3600167-27	189 02	12.00 02	100	60	550	301718	775542	GW	03			
3600167-28	189 02	12.00 02	100	60	550	305149	777555	GW	03			
3600167-29	189 02	12.00 02	100	60	550	308758	780120	GW	03			
3600167-30	189 02	12.00 02	100	60	550	307142	779046	GW	03			
3600167-31	189 02	12.00 02	100	60	550	307253	776261	GW	03			
3600167-32	189 02	12.00 02	100	60	550	308329	777365	GW	03			
3600186	281.00	03	41.70 02	36 1/82	LAN BOTH	1	1 BONITA SPRINGS GOLF & CC	15	0.8	2	160	0.85
3600186-1					250		03 PERMIT MISSING					
3600186-SW1					1110		01					
3600201	1612.00	03	130.00 02	36 7/80	AGR GW	9	COL-LEE GROVES INC	13	1.5	2	482	0.50
3600201-1		189 01	6.00		500	305195	764955	GW	01	wt assumed		
3600201-2		189 01	8.00		500	302493	764422	GW	01			
3600201-3		189 01	6.00		500	301223	764407	GW	01			
3600201-4		189 04	8.00		500	301248	762144	GW	01	INACTIVE		
3600201-5		189 01	8.00		500	300726	761881	GW	01			
3600201-6		189 04	6.00		500	298910	761863	GW	01	INACTIVE		
3600201-7		189 01	8.00		500	297625	760805	GW	01			
3600201-8		189 01	6.00		500	296831	761870	GW	01			
3600201-9		189 01	6.00		500	296752	761530	GW	01			
3600218	241.48	03	117.00 02	36 12/80	AGR GW	4	BERRY GROVES INC/MSW #1 GROVE	13	0.8	2	608	0.85
3600218-1		188 01	8.00 02	100	60	276122	767632	GW	01			
3600218-2		188 01	8.00 02	100	60	276160	768241	GW	01			
3600218-3		188 03	8.00 02	100	60	276235	768933	GW	01	INACTIVE		
3600218-4		188 03	8.00 02	100	60	277620	767393	GW	01	INACTIVE		
3600221	125.00	03	28.10 02	36 1/81	AGR GW	1	F. WEEKS	61	0.8	2	52	0.50
3600221-1		203 01	8.00 02		650	255378	737287	GW	01			
3600225		01	02	22	18	650	CARL GLIDDEN	60	0.8	2	35	0.50
3600225-1							GW	01	PERMIT MISSING			
3600243	17.00	03	3.10 02	36 5/81	AGR GW	3	GREEN JEMS INC.	70	0.8	2	10	0.20
3600243-1		187 01	4.00 02	10	9	600	237361	767191	GW	01	REMAINING 7 WELLS ARE UNUSED-	
3600243-2		187 01	6.00 02			900	237376	767592	GW	01	NO FURTHER DATA AVAILABLE.	
3600243-3		187 01	4.00 02	35	25	900	237355	767787	GW	01		

3600252	3600252-SW1	187 01	29.58 02	36 10/81 LAN SW	750	2 WILDCAT DEV CORP	15 0.8	2	113 0.75
	3600252-SW2	187 01	02		750	254378 766497 SW 01			
			02			254583 763274 SW 01			
3600261	3600261-1	169 01	8.00 02	36 10/83 GLF BOTH	2	3 FIDDLESTICKS LTD	15 0.8	2	265 0.75
	3600261-2	169 03	8.00 02	640 432	700	234471 796024 GW 06			
	3600261-SW1	169 01	02	**** 950	70	234561 795747 GW 07	TEST & MONITOR WELL		
	3600261-SW2	169 01			500	235750 792703 SW 01			
	3600261-SW3	169 01			500	232273 795134 SW 01			
					300	235992 792482 SW 01			
3600282	3600282-W1	202 01	8.00 02	36 10/82 LAN GW	12	BONITA DAY PROPERTIES	15 0.8	2	2375 0.75
	3600282-W2	202 02	10.00 02	32 19	350	236467 734293 GW 01			
	3600282-W3	202 02	10.00 02	32 19	200	236140 733485 GW 01			
	3600282-W4	202 02	10.00 02	32 19	200	236135 732714 GW 01			
	3600282-W5	202 02	10.00 02	27 18	200	235466 734241 GW 01			
	3600282-W6	202 02	10.00 02	29 18	200	235448 733851 GW 01			
	3600282-W7	202 02	10.00 02	30 19	200	235477 733466 GW 01			
	3600282-W8	202 02	10.00 02	32 19	200	235465 733072 GW 01			
	3600282-T1	202 01	10.00 02	32 19	200	235421 732772 GW 01			
	3600282-T2	202 02	10.00 02	120 74	350	236527 734455 GW 03			
	3600282-T3	202 02	10.00 02	120 75	350	236334 733490 GW 03			
	3600282-T4	202 02	10.00 02	120 75	350	236320 732691 GW 03			
	3600282-T5	202 01	8.00 02	255 235	100	236199 734284 GW 05			
3600283	3600283-1	188 01	250.00 02	36 10/82 AGR BOTH	3	2 S. JAMERSON	61 0.8	2	323 0.50
	3600283-2	188 01	8.00 02	85	600	274765 780683 GW 01			
	3600283-3	188 01	8.00 02	85	600	275984 779809 GW 01			
	3600283-SW1	188 01	8.00 02	85	600	278594 780335 GW 01			
	3600283-SW2	188 01			6000	274163 778066 SW 01			
					10000	274816 778129 SW 01			
3600286	3600286-1	188 01	8.00 02	36 10/82 AGR GW	3	POTTINGER'S NURSERY INC	70 1.5	2	20 0.20
	3600286-2	188 01	4.00 02	60 40	300	266550 783696 GW 01	PERMIT REISSUED		
	3600286-3	188 01	14.00 02	120 101	500	266456 783425 GW 04			
				120 100	500	266284 783657 GW 04			
3600303	3600303-1	170 01	23.30 02	36 6/82 GLF GW	4	CYPRESS PINES COUNTRY CLUB	15 0.8	2	89 0.75
	3600303-2	170 01	4.00 02	50 50	300	295006 813398 GW 01			
	3600303-3	170 01	4.00 02	50 50	300	295193 813564 GW 01			
	3600303-4	170 02	4.00 02	50 50	300	295339 813706 GW 01			
			4.00 02	50 50	300	295519 813808 GW 01			
3600308	3600308-1	187 01	8.00 02	36 3/82 GLF BOTH	4	3 SAN CARLOS GOLF, INC	15 0.8	2	101 0.75
	3600308-4	187 01	8.00 02	40 19	197	229835 781408 GW 01			
	3600308-5	187 02	8.00 02	42 25	394	230859 782105 GW 01			
	3600308-6	187 02	12.00 02	130 110	600	229764 782153 GW 04			
	3600308-SW1	187 01	12.00 02	130 110	600	230694 781129 GW 04			
	3600308-SW2	187 01			405	229829 781673 SW 01			
	3600308-SW3	187 01			405	229827 781673 SW 01	PUMP #3- JOCKEY PUMP		
3600312	3600312-SW1	170 01	124.00 02	36 4/82 AGR SW	3000	1 WALDEE BROS. FARM	61 0.8	2	160 0.75
						279031 790687 SW 01			

3600313	164.00	03	58.10 02	36 4/82	AGR GW	2	W. R. BIGHAM	60	0.8	4	75 0.50
3600313-1		203 01	8.00 02	60 30		650	258338 736053 GW 01				
3600313-2		203 01	8.00 02	60 30		700	258338 737199 GW 01				
3600315	887.03	03	36 4/82	AGR BOTH	3	1 S. AND C. HUBSCHMAN	61	0.8	1	720 0.50	
3600315-1		203 01	8.00 02	50 40		600	259050 741084 GW 01				
3600315-2		203 01	8.00 02	50 40		600	259619 740555 GW 01				
3600315-3		203 01	8.00 02	50 40		600	258405 737636 GW 01				
3600315-SW1		02	8.00 02	50 40		4000	259587 738654 SW 01				
3600321		189 01	160.00 02	36 5/82	AGR GW	6	JACK M. BERRY GROVE CORP.	13	0.8	2	280 0.50
3600321-1		189 01	10.00 02	300 100		700	306823 764479 GW 04				
3600321-2		189 01	10.00 02	100 60		800	305448 764112 GW 03				
3600321-3		189 01	10.00 02	400 100		500	307920 764175 GW 04				
3600321-4		189 01	10.00 02	200 100		700	309229 764456 GW 04				
3600321-5		189 01	10.00 02	190 65		800	309513 764496 GW 04				
3600321-6		189 01	10.00 02	150 67		400	305487 762648 GW 03				
3600327	381.30	03	36 9/88	AGR GW	32	JACK M. BERRY CORP.	13	0.8	2	829 0.85	
3600327-1		188 01	8.00 02	111 35		400	291213 769700 GW 03				
3600327-2		188 01	8.00 02	102 40		400	294542 769706 GW 03				
3600327-3		188 01	8.00 02	55 40		400	293536 767915 GW 01				
3600327-4		188 01	8.00 02	86 21		400	291309 768910 GW 01				
3600327-5		188 01	8.00 02	31 20		400	290399 767415 GW 01				
3600327-6		188 01	8.00 02	54 40		400	293398 767354 GW 01				
3600327-7		188 01	8.00 02	45 23		400	288445 764524 GW 01				
3600327-8		188 01	8.00 02	28 15		400	287632 764519 GW 01				
3600327-9		188 01	8.00 02	289 150		400	289231 761281 GW 04				
3600327-10		188 01	8.00 02	49 35		400	289252 760386 GW 01				
3600327-11		188 01	8.00 02	110 35		1000	287907 760251 GW 03				
3600327-12		188 01	12.00 02	120 60		1000	293073 769454 GW 03				
3600327-13		188 01	12.00 02	140 60		1000	290754 769298 GW 03				
3600327-14		188 01	12.00 02	140 60		1000	292792 766928 GW 03				
3600327-15		188 01	12.00 02	140 60		1000	293177 766032 GW 03				
3600327-16		188 01	12.00 02	140 60		1000	291988 764750 GW 03				
3600327-17		188 01	12.00 02	140 60		1000	290494 765009 GW 03				
3600327-18		188 01	12.00 02	110 60		1000	293385 765055 GW 03				
3600327-19		188 02	12.00 02	140 60		1000	287676 764022 GW 03				
3600327-20		188 02	12.00 02	140 60		1000	288438 764046 GW 03				
3600327-21		188 02	12.00 02	140 60		1000	293637 768860 GW 03				
3600327-22		188 02	12.00 02	140 60		1000	290961 768510 GW 03				
3600327-23		188 02	12.00 02	140 60		1000	290901 767755 GW 03				
3600327-24		188 02	12.00 02	140 60		1000	293141 767595 GW 03				
3600327-25		188 02	12.00 02	140 60		1000	291152 766950 GW 03				
3600327-26		188 02	12.00 02	140 60		1000	291155 765923 GW 03				
3600327-27		188 02	12.00 02	140 60		1000	293599 765512 GW 03				
3600327-28		188 02	12.00 02	140 60		1000	291604 765499 GW 03				
3600327-29		188 02	12.00 02	140 60		1000	287791 763141 GW 03				
3600327-30		188 02	12.00 02	140 60		1000	288409 763166 GW 03				
3600327-31		188 02	12.00 02	140 60		1000	286878 760186 GW 03				
3600327-32		188 02	12.00 02	140 60		1000	289236 760018 GW 03				
3600343			3.30 02	36 8/82	AGR GW	6	T. & K FARMS, INC.	70	0.8	2	12 0.20
3600343-1		187 01	2.00 02	30 30		100	229610 746100 GW 01				
3600343-2		187 01	2.00 02	30 30		100	229582 745927 GW 01				
3600343-3		187 01	2.00 02	30 30		100	231233 746402 GW 01				

ESTIMATES ONLY

WELL NO.	DATE	D.W.	H.D.	DEPTH	TYPE	STATUS	OWNER	LOCATIONS GIVEN
3600395	187 01	2.00	02	30	30	SW	3 HIDEAWAY COUNTRY CLUB	15 0.8 2 61 0.75
3600395-SW1	169 01	02	02	36			218645 814365 SW 01	
3600395-SW2	169 01	02	02				218645 814365 SW 01	
3600395-SW3	169 01	02	02				218645 814365 SW 01	
3600402	139.76	03	36	9/83	GLF GW		SHAKARIAN & ASSOC., D.B.	15 0.8 2 321 0.50
3600402-1	202 02	10.00	02	30	10		232134 741942 GW 01	NO EXACT WELL LOCATIONS GIVEN
3600402-2	202 02	10.00	02	100	75		232287 741933 GW 03	AS OF 3/5/90.
3600402-3	202 02	10.00	02	30	10		232144 741572 GW 01	
3600402-4	202 02	10.00	02	100	75		232260 741580 GW 03	
3600402-5	202 02	10.00	02	30	10		232173 741188 GW 01	
3600402-6	202 02	10.00	02	100	75		232326 741204 GW 03	
3600402-7	202 02	10.00	02	30	10		232138 740804 GW 01	
3600402-8	202 02	10.00	02	100	75		232268 740804 GW 03	
3600403	152.83	03	36	9/83	GLF GW		SHAKARIAN & ASSOC., D.B.	15 0.8 2 266 0.50
3600403-1	187 02	10.00	02	30	10		227119 749743 GW 01	NO EXACT WELL LOCATIONS GIVEN
3600403-2	187 02	10.00	02	100	75		227251 749732 GW 03	AS OF 3/5/90.
3600403-3	187 02	10.00	02	30	10		227125 749284 GW 01	
3600403-4	187 02	10.00	02	100	75		227324 749249 GW 03	
3600403-5	187 02	10.00	02	30	10		227086 748855 GW 01	
3600403-6	187 02	10.00	02	100	75		227338 748860 GW 03	
3600403-7	187 02	10.00	02	30	10		227152 748358 GW 01	
3600403-8	187 02	10.00	02	100	75		227323 748361 GW 03	
3600405			36	200	177	GLF BOTH	1 EAGLE RIDGE GOLF & TENNIS CLUB	15 0.8 2 68 0.75
3600405-1	01	02	200				GW 05	
3600405-SW1	01						SW 01	
3600433			36	660	350	LAN GW	WESTINGHOUSE COMM OF NAPLES INC.	15 0.8 2 154 0.75
3600433-1	01	02	660	350			GW 06	
3600433-2	01	02	300	205			GW 05	
3600433-3	01	02	300	205			GW 05	
3600433-4	01	02	650	350			GW 06	
3600433-5	01	02	300	200			GW 05	
3600433-SW1	01						GW 01	
3600441			36	300	200	LAN GW	U.S. HOMES CORPORATION	15 0.8 2 60 0.75
3600441-1	01	02	300				GW 05 Permit Missing	
3600445	461.60	03	36	5/86	AGR GW		EDWARD J. MCARDLE	70 0.8 2 203 0.20
3600445-1	187 01	8.00	02	105	20		243666 757829 GW 01	PERMIT REISSUED
3600445-2	187 01	8.00	02	115	20		243679 756585 GW 01	WELL #1, 2, 4-CAPPED
3600445-3	187 01	8.00	02	45	20		244354 754769 GW 01	WELL #3- PLUGGED TO 250'
3600445-4	187 01	8.00	02	80	20		242940 754306 GW 01	
3600445-9	187 02	8.00	02	50	18		235287 758669 GW 01	
3600445-10	187 02	8.00	02	50	18		235272 758089 GW 01	
3600445-11	187 02	8.00	02	50	18		235249 757585 GW 01	
3600446			36	60	20	GW	EDWARD J. MCARDLE	20 0.8 2 306 0.50
3600446-1	187 01	02	60				235287 758669 GW	01same wells used as above
3600446-2	187 01	02	60				235272 758089 GW	01adjacent property

3600446-3	187 01	02	60	20	250	235249 757585 GW 01	15	0.8	2	10 0.75
3600448	11.87	03	36 5/84	LAN GW	1	JASSEY MURPHY DEV CO				
3600448-1	187 01	02	240 190		90	219452 783329 GW 05				
3600479	82.18	03	36 10/84	LAN BOTH	2	2 THE VINTAGE LIMITED PARTNERSHIP	15	0.8	2	72 0.75
3600479-1	187 02	02	60 25		150	233610 772452 GW 01				
3600479-2	187 02	02	60 25		150	231613 774122 GW 01				
3600479-SW1	187 02	02	60 25		750	234038 772623 SW 01				
3600479-SW2	187 02	02			250	234031 772633 SW 01 PUMP #25- JOCKEY				
3600534	13.13	03	36 9/86	GIF SW	200	2 SOMERSET DEVELOPMENT CORP.	15	0.8	2	12 0.75
3600534-SW1	187 01				100	219774 785284 SW 01				
3600534-SW2	187 01					219925 785728 SW 01				
3600564	110.40	03	36 6/85	AGR GW	5	WESTINGHOUSE GATEWAY COMMUNITY	20	0.8	2	87 .50
3600564-2012	169 01	03	20 10		400	254701 818627 GW 01 NO PUMP AT PRESENT				
3600564-2003	169 01	03	18 10		310	247076 820895 GW 01 NO PUMP AT PRESENT				
3600564-2001	169 01	03	20 10		310	245077 825463 GW 01				
3600564-2013	170 01	03	25 10		310	256173 819625 GW 01 SURFACE WATER PERMIT ONLY				
3600564-2051	170 03	03	83 40		310	259774 813773 GW 01				
3600573	7.99	03	36 10/85	LAN GW	2	LEE COUNTY SCHOOL BOARD	15	0.8	15	14 0.75
3600573-1	187 01	02	40 34		100	233444 783340 GW 01 PERMIT RE-ISSUED				
3600573-2	187 02	02	50 30		54	232702 783012 GW 01				
3600576	235.96	03	36 6/85	AGR GW	5	RONALD INGE, TRUSTEE	13	0.8	2	513 0.85
3600576-1	189 02	02	35 10		718	307663 767959 GW 01				
3600576-2	189 02	02	35 10		718	308798 767938 GW 01				
3600576-3	189 02	02	35 10		354	307567 767124 GW 01				
3600576-4	189 02	02	35 10		705	308650 767144 GW 01				
3600576-5	189 02	02	35 10		475	307703 766409 GW 01				
3600581		01	36	LAN GW	1	LEE COUNTY SCHOOL BOARD	15	0.8	2	5 0.75
3600581-1		01	85 74		120	242871 731902 GW 03 Permit Missing				
3600582	3.42	03	36 8/85	LAN GW	1	LEE COUNTY SCHOOL BD.	15	0.8	2	3 0.75
3600582-1	202 01	02	62 61		100	GW 03				
3600596	6.94	03	36 10/86	IND GW	6	TOLLES READY-MIX, INC.	0.8		2	
3600596-1	187 01	02	260 210		200	227567 784530 GW 05				
3600596-2	187 01	02	260 210		200	227772 784566 GW 05				
3600596-3	187 01	02	20			227608 783996 GW 01				
3600596-4	187 01	02	20			227462 783798 GW 01				
3600596-B	187 01	02	45 32		40	227782 784565 GW 01				
3600596-A	187 01	02	38 27		40	227570 784531 GW 01				
3600622			36	LAN GW	15	1 U.S. HOME CORP.	15	0.8	2	43 0.75
3600622-1	01	02	130 80		25	GW 04 Permit Missing				
3600622-2	01	02	130 80		30	GW 04				
3600622-3	01	02	130 80		40	GW 04				
3600622-4	01	02	134 84		50	GW 04				
3600622-5	01	02	130 80		30	GW 04				
3600622-6	01	02	130 80		30	GW 04				
3600622-7	01	02	130 80		30	GW 04				
3600622-8	01	02	130 80		30	GW 04				

3600622-9	01	02	130	80	30	GW 04
3600622-10	01	02	130	80	30	GW 04
3600622-11	01	02	650	300	100	GW 06
3600622-12	01	02	572	248	70	GW 06
3600622-13	01	02	650	300	100	GW 06
3600622-14	01	02	650	300	100	GW 06
3600622-15	01	02	650	300	80	GW 06
3600622-16	01	02	650	300	855	SW 01
3600640	21.60	03	36	2/86	2	1 RAUL SALDIVAR SR.
3600640-1	203 02	8.00 02	30	20	500	281554 739325 GW 01
3600640-2	203 02	8.00 02	30	20	500	279129 739357 GW 01
3600640-SW1	203 02				7300	279783 740158 SW 01
3600652	3.91	03	36	7/87	1	CARLEE CHASTAIN
3600652-1	151 02	4.00 02	115	75	45	238087 868390 GW 04
3600653	4.76	03	36	5/86	6	LENNAR HOMES
3600653-1	187 01	6.00 02	360	300	110	218245 785058 GW 06
3600653-2	187 01	4.00 02	210	165	75	217859 785101 GW 05
3600653-3	187 01	4.00 02	200	165	75	218598 784256 GW 05
3600653-4	187 01	4.00 02	210	165	75	218063 784171 GW 05
3600653-5	187 02	6.00 02	360	165	110	218454 784474 GW 05
3600653-6	187 02	8.00 02	40	20	110	218665 784908 GW 01
3600653-SW1	187 02				110	218665 784908 SW 01
3600660	32.42	03	36	5/86	10	6 US HOME CORP/BROOKSHIRE VILLAGE
3600660-1	169 02	6.00 02	650	300	100	225154 805874 GW 06
3600660-2	169 02	6.00 02	650	300	100	225292 806722 GW 06
3600660-3	169 02	6.00 02	650	300	100	223474 806910 GW 06
3600660-4	169 02	6.00 02	650	300	100	223443 806206 GW 06
3600660-7	169 02	6.00 02	650	300	200	223465 805702 GW 06
3600660-9	169 02	6.00 02	650	300	150	224539 805344 GW 06
3600660-13	169 02	6.00 02	650	300	200	224717 807316 GW 06
3600660-14	169 02	6.00 02	650	300	150	224266 806797 GW 06
3600660-17-1	169 02	6.00 02	650	300	100	223922 807416 GW 06
3600660-17-2	169 02	6.00 02	650	300	100	225459 807464 GW 06
3600660-S6-1	169 02	6.00 02	650	300	200	224063 805568 SW 01
3600660-S9-1	169 02	6.00 02	650	300	100	224829 805529 SW 01
3600660-S13-1	169 02	6.00 02	650	300	150	224836 806945 SW 01
3600660-S14-1	169 02	6.00 02	650	300	150	224037 806341 SW 01
3600660-S17-1	169 02	6.00 02	650	300	100	224561 807196 SW 01
3600660-S17-2	169 02	6.00 02	650	300	100	225013 807321 SW 01
3600676	29.68	03	36		28	BRECKENRIDGE LTD.
3600676-1	187 02	6.00 02	45	20	30	230987 769498 GW 01
3600676-2	187 02	6.00 02	45	20	30	230685 769551 GW 01
3600676-3	187 02	6.00 02	45	20	30	230387 769443 GW 01
3600676-4	187 02	6.00 02	45	20	30	229910 769438 GW 01
3600676-5	187 02	6.00 02	45	20	30	229644 769139 GW 01
3600676-6	187 02	6.00 02	45	20	30	230289 769041 GW 01
3600676-7	187 02	6.00 02	45	20	30	230485 768890 GW 01
3600676-8	187 02	6.00 02	45	20	30	229819 768841 GW 01
3600676-9	187 02	6.00 02	45	20	30	229753 768528 GW 01
3600676-10	187 02	6.00 02	45	20	30	230110 768672 GW 01
3600676-11	187 02	6.00 02	45	20	30	230028 768503 GW 01
3600640	21.60	03	36	2/86	2	1 RAUL SALDIVAR SR.
3600640-1	203 02	8.00 02	30	20	500	281554 739325 GW 01
3600640-2	203 02	8.00 02	30	20	500	279129 739357 GW 01
3600640-SW1	203 02				7300	279783 740158 SW 01
3600652	3.91	03	36	7/87	1	CARLEE CHASTAIN
3600652-1	151 02	4.00 02	115	75	45	238087 868390 GW 04
3600653	4.76	03	36	5/86	6	LENNAR HOMES
3600653-1	187 01	6.00 02	360	300	110	218245 785058 GW 06
3600653-2	187 01	4.00 02	210	165	75	217859 785101 GW 05
3600653-3	187 01	4.00 02	200	165	75	218598 784256 GW 05
3600653-4	187 01	4.00 02	210	165	75	218063 784171 GW 05
3600653-5	187 02	6.00 02	360	165	110	218454 784474 GW 05
3600653-6	187 02	8.00 02	40	20	110	218665 784908 GW 01
3600653-SW1	187 02				110	218665 784908 SW 01
3600660	32.42	03	36	5/86	10	6 US HOME CORP/BROOKSHIRE VILLAGE
3600660-1	169 02	6.00 02	650	300	100	225154 805874 GW 06
3600660-2	169 02	6.00 02	650	300	100	225292 806722 GW 06
3600660-3	169 02	6.00 02	650	300	100	223474 806910 GW 06
3600660-4	169 02	6.00 02	650	300	100	223443 806206 GW 06
3600660-7	169 02	6.00 02	650	300	200	223465 805702 GW 06
3600660-9	169 02	6.00 02	650	300	150	224539 805344 GW 06
3600660-13	169 02	6.00 02	650	300	200	224717 807316 GW 06
3600660-14	169 02	6.00 02	650	300	150	224266 806797 GW 06
3600660-17-1	169 02	6.00 02	650	300	100	223922 807416 GW 06
3600660-17-2	169 02	6.00 02	650	300	100	225459 807464 GW 06
3600660-S6-1	169 02	6.00 02	650	300	200	224063 805568 SW 01
3600660-S9-1	169 02	6.00 02	650	300	100	224829 805529 SW 01
3600660-S13-1	169 02	6.00 02	650	300	150	224836 806945 SW 01
3600660-S14-1	169 02	6.00 02	650	300	150	224037 806341 SW 01
3600660-S17-1	169 02	6.00 02	650	300	100	224561 807196 SW 01
3600660-S17-2	169 02	6.00 02	650	300	100	225013 807321 SW 01
3600676	29.68	03	36		28	BRECKENRIDGE LTD.
3600676-1	187 02	6.00 02	45	20	30	230987 769498 GW 01
3600676-2	187 02	6.00 02	45	20	30	230685 769551 GW 01
3600676-3	187 02	6.00 02	45	20	30	230387 769443 GW 01
3600676-4	187 02	6.00 02	45	20	30	229910 769438 GW 01
3600676-5	187 02	6.00 02	45	20	30	229644 769139 GW 01
3600676-6	187 02	6.00 02	45	20	30	230289 769041 GW 01
3600676-7	187 02	6.00 02	45	20	30	230485 768890 GW 01
3600676-8	187 02	6.00 02	45	20	30	229819 768841 GW 01
3600676-9	187 02	6.00 02	45	20	30	229753 768528 GW 01
3600676-10	187 02	6.00 02	45	20	30	230110 768672 GW 01
3600676-11	187 02	6.00 02	45	20	30	230028 768503 GW 01

[illegible]

3600802-F1	187 04	12.00 02	35 18	300	237511 743587 GW 01			
3600802-P1	187 01	6.00 02	95 95	40	238267 743799 GW 03			
3600846	14.10 03			1	CITIZENS & SOUTHERN TRUST CO.	61	0.8	21 0.50
3600846-1	169 02	4.00 02	36 5/88 AGR GW	100	234682 828817 GW 01			
3600857	9.10 03			1	ARTHUR RUTENBERG	15	0.8	8 0.75
3600857-1	169 02	4.00 02	36 6/88 LAN GW	80	215811 789807 GW 07			
3600860	11.00 03			1	LEE COUNTY SCHOOL BOARD	15	0.8	10 0.75
3600860-1	169 02	6.00 02	36 7/88 LAN GW	70	217179 831885 GW 07			
3600877	4.39 03			1	HUTTON ADVANTAGE PROPERTIES	15	0.8	4 0.75
3600877-1	169 02	4.00 02	36 9/88 LAN BOTH	70	219967 824907 GW 07			
3600877-SW1	169 01			105	219944 825064 SW 01			
3600882	25.34 03			8	SOMERSET DEVELOPMENT CORP.	15	0.8	22 0.75
3600882-1	187 01	4.00 02	36 9/88 LAN BOTH	70	219414 786272 GW 07			
3600882-2	187 01	4.00 02	704 310	70	219295 785864 GW 07			
3600882-3	187 01	4.00 02	655 320	70	219997 784637 GW 07			
3600882-4	187 02	6.00 02	645 320	70	220004 786265 GW 07			
3600882-5	187 02	6.00 02	675 320	70	219916 785901 GW 07			
3600882-6	187 02	6.00 02	675 320	70	220088 784944 GW 07			
3600882-M1	187 01	4.00 02	675 320	70	219243 784911 GW 01			
3600882-TM1	187 04	6.00 02	20 15	200	219393 784666 GW 01			
3600882-SW1	187 01		48 25	100	219616 785372 SW 01			
3600882-SW2	187 01			100	219612 785259 SW 01			
3600890	3.82 03			100	CITY OF FORT MYERS	15	0.8	3 0.75
3600890-SW1	168 02				213744 827849 SW 01			
3600904	13.10 03			1	LENNAR HOMES INC.	15	0.8	12 0.75
3600904-1	169 01	4.00 02	36 11/88 LAN GW	50	230737 803964 GW 04			
3600917	11.10 03			100	T.M.BRONDSFETTER & W.K.BECK	15	0.8	10 0.75
3600917-SW1	187 02	02	36 12/88 GLF SW	100	240763 760560 SW 01			
3600917-SW2	187 02	02		100	240885 760571 SW 01			
3601070	97.03 03			1	THE OLD HICKORY CLUB	15	0.8	85 0.75
3601070-1	169 02	6.00 02	36 4/89 GLF GW	160	237756 799478 GW 01			
3601098	8.31 03			1	DR. DAVID BROWN/U-PICK STRAW.	60	0.8	4 0.85
3601098-1	169 02	4.00 02	36 5/89 AGR GW	150	221824 804688 GW 04			
3601102	114.00 03			800	CITY OF FT. MYERS	15	0.8	100 0.75
3601102-SW1	169 01				231070 831245 SW 01			
3601212	147.20 03			8	STONEY'S ENTERPRISES	13	0.8	320 0.85
3601212-1	188 01	8.00 02	36 8/89 AGR GW	1000	257724 743631 GW 01			
3601212-2	203 01	8.00 02	25 25	1000	257760 742380 GW 01			
3601212-3	203 01	8.00 02	33 33	1000	257799 741359 GW 01			
3601212-4	203 01	8.00 02	25 25	1000	257844 740495 GW 01			
3601212-5	203 01	8.00 02	25 25	1000	257871 739807 GW 01			
3601212-6	203 01	8.00 02	23 23	1000	257895 739051 GW 01			
3601212-7	203 01	8.00 02	25 25	1000	257864 738005 GW 01			
3601212-8	188 01	8.00 02	25 25	1000	256500 743127 GW 01			

3601272	7.70	03	36	9/89	NUR	GW	3	L.A.R.P.	NURSERY	01	*ALL WELLS MANIFOLD TO A	61	0.8	2	2	0.20
3601272-1	169 01	03	40	20	2.00	02	35	219802	832532	GW	01	SINGLE UNDERWATER PUMP				
3601272-2	169 01	03	40	20	2.00	02	35	219840	832545	GW	01					
3601272-3	169 01	03	40	20	2.00	02	35	219850	832560	GW	01					
3601307	26.30	03	36	10/89	IND	GW	3	WILDCAT RUN DEV. CORP								
3601307-1	187 02	03	30	3	6.00	02	506	252708	763786	GW	01					
3601307-2	187 02	03	18	3	6.00	02	506	252522	763818	GW	01					
3601307-3	187 02	03	18	3	6.00	02	506	252515	763577	GW	01					

APPENDIX G

PUBLIC WATER SUPPLY DATA

INTRODUCTION

The first portion of Appendix G contains the following parameters: utility name and permit number, utility well designations and their corresponding Florida planar coordinates, model locations, layer designations, well construction parameters and pump capacities. This information is followed by monthly pumpages in million gallon per month for each of the public water supply wells over the transient calibration period (February 1986 to December 1988).

Utility	Well Id	Xcoord	Ycoord	Layer	Row	Column	Total Depth	Cased Depth	Well Diameter	Pump Capacity
IMMOKALEE WATER SEWER DISTRICT 11-00013	ISWD-1	360094	754878	3	24	32	275	236	4.00	200
	ISWD-7	359634	754561	3	24	32	255	228	6.00	200
	ISWD-8	360231	755285	3	24	32	315	230	8.00	200
	ISWD-9	359944	754642	3	24	32	275	250	8.00	225
	ISWD-10	360016	754319	3	25	32	310	236	8.00	250
	ISWD-11	360216	754630	3	24	32	310	234	8.00	250
	ISWD-101	352425	763614	2	23	30	195	145	8.00	250
	ISWD-102	352286	763870	2	23	30	154	114	6.00	250
	ISWD-103	352955	764177	2	23	31	180	140	8.00	200
	ISWD-201	365944	760365	2	23	33	180	140	8.00	200
	ISWD-202	366295	760377	2	23	33	180	140	8.00	200
	ISWD-301	349705	763471	2	23	30	200	140	8.00	250
	ISWD-302	350017	763501	2	23	30	200	140	8.00	250
	ISWD-303	366898	762119	2	23	33	200	140	8.00	250
	ISWD-304	366894	761503	2	23	33	200	140	8.00	250
COLLIER CO EAST NAPLES 11-00015	CCEN-35	250203	655884	2	43	11	55	38	8.00	200
	CCEN-76	250666	656493	2	43	11	60	30	8.00	200
	CCEN-77	251360	656539	2	43	11	60	38	8.00	200
	CCEN-78	252281	656444	2	43	11	60	36	8.00	200
	CCEN-1	252242	653543	2	44	11	58	40	10.00	200
	CCEN-2	261584	654369	2	43	11	61	40	10.00	200
	NCR-1	240215	668124	2	41	9	90	56	8.00	350
	NCR-2	240486	670085	2	40	9	87	57	8.00	350
CITY OF NAPLES COASTAL RIDGE 11-00017	NCR-3	241052	670119	2	40	9	89	56	8.00	350
	NCR-4	240450	670877	2	40	9	82	53	8.00	350
	NCR-5	240452	672049	2	40	9	82	53	8.00	350
	NCR-6	240422	673247	2	40	9	82	51	8.00	350
	NCR-7	240438	674131	2	40	9	89	60	8.00	350
	NCR-8	240414	675228	2	39	9	80	58	8.00	350
	NCR-9	240374	676452	2	39	9	40	24	8.00	350
	NCR-10	240379	677712	2	39	9	87	54	8.00	350
	NCR-11	240385	678803	2	39	9	87	64	8.00	350
	NCR-12	240319	679644	2	39	9	83	64	8.00	350
	NCR-13	240366	680279	2	39	9	83	63	8.00	350

Utility	Well Id	Xcoord	Ycoord	Layer	Row	Column	Total Depth	Cased Depth	Well Diameter	Pump Capacity
CITY OF NAPLES COASTAL RIDGE 11-00017	NCR-14	240357	680986	2	38	9	83	64	8.00	350
	NCR-15	240331	681654	2	38	9	83	64	8.00	350
	NCR-16	240421	682957	2	38	9	80	60	10.00	350
	NCR-17	240317	683628	2	38	9	85	61	8.00	350
	NCR-18	240442	684588	2	38	9	85	61	8.00	350
	NCR-19	240559	685564	2	38	9	85	61	8.00	350
	NCR-20	240689	686759	2	37	9	85	62	8.00	350
	NCR-21	240803	687778	2	37	8	85	61	8.00	350
	NCR-22	240998	688987	2	37	8	85	61	8.00	350
	NCR-23	241179	690454	2	37	9	85	61	8.00	350
	NCR-24	241273	691515	2	36	9	85	63	8.00	350
	NCR-25	241410	692495	2	36	9	85	62	8.00	350
	NCR-26	241573	693582	2	36	9	85	62	8.00	350
	NCR-27	241678	694401	2	36	9	85	61	8.00	350
CITY OF NAPLES E. GOLDEN GATE 11-00018	NCR-28	241821	695649	2	36	9	85	61	8.00	350
	NCR-29	241890	684184	2	38	9	85	54	8.00	350
	NCR-30	242087	685065	2	38	10	85	54	8.00	350
	NCR-31	241786	683218	2	38	9	85	54	8.00	350
	NCR-32	243030	683196	2	38	10	85	54	8.00	350
	NCR-33	244284	683181	2	38	10	85	54	8.00	350
	NCR-34	245174	683234	2	38	10	85	54	8.00	350
	NEGG-1	326435	695331	2	36	25	71	42	14.00	500
	NEGG-2	326561	693901	2	36	26	93	48	14.00	500
	NEGG-3	326456	692573	2	36	25	80	39	14.00	500
	NEGG-4	326456	691247	2	36	25	81	42	14.00	700
	NEGG-5	326486	689952	2	37	26	98	42	14.00	900
	NEGG-6	326466	688600	2	37	26	101	42	14.00	700
	NEGG-7	326610	687299	2	37	26	109	47	14.00	900
	NEGG-8	326502	685937	2	37	26	133	42	14.00	900
	NEGG-9	326480	684640	2	38	26	82	42	14.00	700
	NEGG-10	326490	683297	2	38	26	131	42	14.00	700
	NEGG-11	326546	681992	2	38	26	112	37	14.00	600
	NEGG-12	326549	680656	2	38	26	100	37	14.00	700
	NEGG-13	326575	678306	2	39	26	100	40	14.00	700
	NEGG-14	326581	677960	2	39	26	80	38	14.00	700

Utility	Well Id	Xcoord	Ycoord	Layer	Row	Column	Total Depth	Cased Depth	Well Diameter	Pump Capacity	
CITY OF MAPLES E. GOLDEN GATE 11-00018	NEGG-16	315759	697851	2	35	26	137	39	14.00	1000	
	NEGG-17	315691	704185	2	34	26	117	40	14.00	1000	
	NEGG-18	315770	703096	2	34	26	100	39	14.00	1000	
	NEGG-19	315800	701483	2	35	26	85	42	14.00	1000	
	NEGG-20	315718	700467	2	35	26	86	46	14.00	1000	
	NEGG-21	315741	699130	2	35	26	78	51	14.00	600	
	NEGG-22	321159	689867	2	37	24	100	40	14.00	700	
	NEGG-23	321608	691209	2	36	25	100	40	14.00	700	
NEGG-24	321222	692562	2	36	25	100	40	14.00	700		
PELICAN BAY IMP. DISTRICT 11-00052	PBID-1	253058	705689	2	34	12	90	53	10.00	300	
	PBID-2	253022	706416	2	34	12	99	70	10.00	300	
	PBID-3	253040	707029	2	33	12	100	69	10.00	300	
	PBID-4	253037	707615	2	33	12	100	69	10.00	300	
	PBID-5	253038	708199	2	33	12	98	49	10.00	300	
	PBID-6	253052	708805	2	33	12	100	52	10.00	300	
	PBID-7	253066	709368	2	33	12	102	53	10.00	300	
MARCO ISLAND UTILITIES 11-00080	MIU-S1	273685	631605	1	48	16	SURFACE WATER PUMP				3000
	MIU-S2	274280	631199	1	48	16	SURFACE WATER PUMP				3000
	MIU-S3	273938	630269	1	48	16	SURFACE WATER PUMP				2300
	MIU-S4	273399	630591	1	48	15	SURFACE WATER PUMP				2300
	MIU-S5	273228	630018	1	48	15	SURFACE WATER PUMP				1500
	MIU-S6	272566	629810	1	48	15	SURFACE WATER PUMP				5000
	MIU-S7	272135	630727	1	48	15	SURFACE WATER PUMP				5000
FLORIDA CITIES GOLDEN GATE 11-00148	FCWC-1	272112	671905	1	40	15	20	15	4.00	75	
	FCWC-3	272496	671991	1	40	15	45	35	6.00	250	
	FCWC-4	272338	671972	1	40	15	45	35	8.00	250	
	FCWC-5	272471	672191	1	40	15	45	15	8.00	250	
	FCWC-8	272475	671883	1	40	15	23	17	8.00	250	
EVERGLADE CITY COPELAND	EC-2	379682	592766	1	55	36	25	15	8.00	200	
	EC-3	379485	592767	1	55	36	25	15	8.00	200	

Utility	Well Id	Xcoord	Ycoord	Layer	Row	Column	Total Depth	Cased Depth	Well Diameter	Pump Capacity
NORTH NAPLES UTILITIES	NNU-1	263238	711348	1	33	14	35	20	10.00	1000
	NNU-2	263138	710926	1	33	14	40	18	10.00	500
NAPLES ISLE 11-00235	NIU-1	282554	624410	1	49	17	20	20	4.00	68
	NIU-2	282802	624086	1	49	17	20	20	4.00	68
	NIU-3	282442	624077	1	49	17	20	20	4.00	68
COLLIER COUNTY UTILITIES 11-00249	CCU-1	296316	683989	2	38	20	96	50	16.00	700
	CCU-2	297711	683949	2	38	20	100	50	16.00	700
	CCU-3	298987	684110	2	38	20	100	51	16.00	700
	CCU-4	300500	683852	2	38	21	102	52	16.00	700
	CCU-5	301927	683811	2	38	21	108	50	16.00	700
	CCU-6	301241	684117	2	38	21	101	65	12.00	700
	CCU-7	301238	685300	2	38	21	106	65	12.00	700
	CCU-8	301242	686469	2	37	21	106	70	12.00	700
	CCU-9	301201	687688	2	37	21	114	65	12.00	700
	CCU-10	301192	688864	2	37	21	112	71	12.00	700
	CCU-11	301230	689925	2	37	21	137	90	12.00	700
	CCU-12	301187	691095	2	36	21	133	90	12.00	700
	CCU-13	301210	692054	2	36	21	130	84	12.00	700
	CCU-14	301194	693198	2	36	21	131	85	12.00	700
	CCU-15	301167	694102	2	36	21	130	84	12.00	700
	CCU-16	301181	695091	2	36	21	150	90	12.00	700
PORT OF ISLAND 11-00271	POI-1	341288	597909	4	54	28	380	300	6.00	300
	POI-2	342232	597959	4	54	28	380	300	6.00	300
LEE COUNTY UTILITIES 36-00003	LCU-1	269802	774088	3	21	15	205	135	12.00	350
	LCU-2	271440	774482	3	21	15	250	160	12.00	350
	LCU-3	273078	774878	3	21	15	260	180	12.00	350
	LCU-4	269871	770048	3	21	15	300	190	12.00	350
	LCU-5	271508	770241	3	21	15	300	205	12.00	350
	LCU-6	273236	770535	3	21	15	300	215	12.00	350
	LCU-7	269880	771765	1	21	15	135	45	12.00	500
	LCU-8	270605	771458	1	21	15	145	60	12.00	500
	LCU-9	271423	771453	1	21	15	145	55	12.00	500

Utility	Well Id	Xcoord	Ycoord	Layer	Row	Column	Total Depth	Cased Depth	Well Diameter	Pump Capacity
LEE COUNTY UTILITIES 36--00003	LCU-10	272240	771247	1	21	15	156	60	12.00	500
	LCU-11	273332	771342	1	21	15	150	55	12.00	500
	LCU-12	269963	770351	1	21	15	145	50	12.00	500
	LCU-13	270781	770346	1	21	15	140	50	12.00	500
	LCU-14	271600	770544	1	21	15	150	50	12.00	500
	LCU-15	272509	770438	1	21	15	150	58	12.00	500
	LCU-16	273327	770534	1	21	15	155	60	12.00	500
	LCU-18	270251	773075	1	21	15	115	45	12.00	500
	LCU-19	271614	773068	1	21	15	120	50	12.00	500
	LCU-20	272795	772961	1	21	15	120	50	12.00	500
BONTIA SPRINGS UTILITIES 36-00008	BSWS-1	252944	735512	2	28	12	80	64	8.00	315
	BSWS-2	252935	733997	2	28	12	80	65	8.00	225
	BSWS-3	252930	733088	2	29	12	80	65	8.00	225
	BSWS-4	252925	732281	2	29	12	80	64	8.00	225
	BSWS-5	252921	731675	2	29	12	80	64	8.00	465
	BSWS-6	252915	730666	2	29	12	80	58	8.00	225
	BSWS-7	252929	736319	2	28	12	97	66	12.00	470
	BSWS-8	252955	737430	2	28	12	85	70	8.00	200
	BSWS-9	252960	738339	2	28	12	85	70	8.00	265
	BSWS-10	252967	739449	2	27	12	90	66	12.00	475
GULF UTILITIES 36-00122	BSWS-11	252911	729858	2	29	12	97	67	12.00	520
	GULF-6	238879	780208	1	20	9	40	19	8.00	600
	GULF-7	238991	781759	1	19	9	37	19	8.00	200
	GULF-8	238999	782709	1	19	9	38	19	8.00	400
	GULF-9	238983	780658	1	20	9	45	22	8.00	500
	GULF-10	238956	777158	1	20	9	38	20	8.00	250
FLORIDA CITIES GREEN MEADOWS 36-00150	GM-1	262993	791593	3	13	13	170	170	10.00	500
	GM-1D	262993	791593	1	13	13	40	14	10.00	500
	GM-2	263809	791286	3	13	13	170	170	10.00	500

Utility	Well Id	Xcoord	Ycoord	Layer	Row	Column	Total Depth	Cased Depth	Well Diameter	Pump Capacity
FLORIDA CITIES GREEN MEADOWS 36-00150	GM-2A	263809	791286	1	13	13	38	20	10.00	500
	GM-3	263722	791892	3	13	13	195	100	10.00	500
	GM-3A	263722	791892	1	13	13	42	17	10.00	500
	GM-3B	263722	791892	1	13	13	42	22	10.00	500
	GM-4	265354	791277	3	13	13	185	105	10.00	500
	GM-4A	265354	791277	1	13	13	42	20	10.00	500
	GM-5	267806	791263	3	13	13	185	102	10.00	500
	GM-6	270623	791248	3	13	13	235	90	10.00	350
	GM-7	273166	791234	3	13	13	235	90	10.00	500
LEHIGH ACRES 36-00166	GM-8	278344	791206	3	13	13	208	91	10.00	500
	GM-9A	278344	791206	1	13	13	42	20	10.00	500
	LEH-1	282547	826744	3	11	19	65	50	8.00	150
	LEH-2	281035	825256	3	11	19	69	52	8.00	150
	LEH-3	288881	824773	3	11	18	68	58	8.00	200
	LEH-4	290049	827114	3	11	19	85	50	8.00	150
	LEH-5	280995	826507	3	11	19	66	66	8.00	150
	LEH-6	289244	826470	3	11	18	62	62	8.00	100
	LEH-7	282833	825042	3	11	18	85	57	8.00	200
TROST INTERNATIONAL	LEH-8	288927	824059	3	11	18	80	62	8.00	250
	LEH-8A	289425	823869	3	11	18	80	63	8.00	200
	TROST1	263900	742200	3	27	12	95	84	4.00	250
HARBOR UTILITIES 36-00366	TROST2	253900	724400	3	27	12	95	84	4.00	250
	HAR-1	240614	737081	2	28	9	65	65	2.50	70
	HAR-2	240712	736973	2	28	9	65	65	2.50	120
	HAR-3	240862	736819	2	28	9	65	65	2.50	120
	HAR-4	240446	736937	2	28	9	65	65	4.00	120
	HAR-5	240607	736806	2	28	9	65	65	4.00	120

MONTHLY PUMPAGE (MG/M)

UTILITY	WELL#	JAN86	FEB86	MAR86	APR86	MAY86	JUN86	JUL86	AUG86	SEP86	OCT86	NOV86	DEC86
IMMOKALEE WATER SEWER DISTRICT 11-00013	IWSD-1	5.556	5.199	5.565	7.176	8.263	5.163	5.085	5.993	6.074	6.466	6.766	7.172
	IWSD-7	5.556	5.199	5.565	7.176	8.263	5.163	5.085	5.993	6.074	6.466	6.766	7.172
	IWSD-8	5.556	5.199	5.565	7.176	8.263	5.163	5.085	5.993	6.074	6.466	6.766	7.172
	IWSD-9	5.556	5.199	5.565	7.176	8.263	5.163	5.085	5.993	6.074	6.466	6.766	7.172
	IWSD-10	5.556	5.199	5.565	7.176	8.263	5.163	5.085	5.993	6.074	6.466	6.766	7.172
	IWSD-11	5.556	5.199	5.565	7.176	8.263	5.163	5.085	5.993	6.074	6.466	6.766	7.172
	IWSD-101	7.380	6.297	7.006	6.631	6.254	5.899	4.705	4.723	4.491	5.222	5.200	5.232
	IWSD-102	7.380	6.297	7.006	6.631	6.254	5.899	4.705	4.723	4.491	5.222	5.200	5.232
	IWSD-103	7.380	6.297	7.006	6.631	6.254	5.899	4.705	4.723	4.491	5.222	5.200	5.232
	IWSD-201	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	IWSD-202	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	IWSD-301	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	IWSD-302	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	IWSD-303	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	IWSD-304	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COLLIER CO. EAST NAPLES 11-00015	CCEN-35	1.726	2.029	2.332	2.123	1.913	1.479	0.383	1.617	1.443	1.646	2.410	1.966
	CCEN-76	1.726	2.029	2.332	2.123	1.913	1.479	0.383	1.617	1.443	1.646	2.410	1.966
	CCEN-77	1.726	2.029	2.332	2.123	1.913	1.478	0.383	1.617	1.443	1.646	2.410	1.966
	CCEN-78	1.726	2.029	2.332	2.123	1.913	1.479	0.383	1.617	1.443	1.646	2.410	1.966
	CCEN-1	1.726	2.029	2.332	2.123	1.913	0.000	0.000	0.000	0.000	0.000	0.000	1.966
	CCEN-2	1.726	2.029	2.332	2.123	1.913	0.000	0.000	0.000	0.000	0.000	0.000	1.966
CITY OF NAPLES COASTAL RIDGE 11-00017	NCR-1	3.263	2.960	2.735	3.031	3.966	2.832	3.766	2.888	8.039	8.047	7.985	2.050
	NCR-2	3.263	2.960	2.735	3.031	3.718	2.832	3.766	2.888	7.562	6.926	7.985	2.035
	NCR-3	3.263	2.960	2.735	3.031	3.718	2.832	3.766	2.888	7.562	6.926	7.985	2.035
	NCR-4	3.263	2.960	2.735	3.031	3.401	2.832	3.766	2.888	7.916	8.047	7.985	2.119
	NCR-5	3.263	2.960	2.735	3.031	3.401	2.832	3.766	2.888	7.916	8.047	7.985	2.119
	NCR-6	3.263	2.960	2.735	3.031	3.401	2.832	3.766	2.888	7.916	8.047	7.985	2.119
	NCR-7	3.263	2.960	2.735	3.031	3.539	2.832	3.766	2.888	8.026	8.047	7.985	2.068
	NCR-8	0.816	0.699	0.684	0.758	0.044	0.708	0.941	0.722	0.077	0.075	0.073	0.039
	NCR-9	2.447	2.097	2.052	2.273	3.636	2.124	2.824	2.166	8.026	8.032	7.924	2.214
	NCR-10	0.816	0.699	0.684	0.758	0.032	0.708	0.941	0.722	0.077	0.075	0.073	0.039
	NCR-11	2.447	2.097	2.052	2.273	3.046	2.124	2.824	2.166	6.775	8.003	7.855	2.218
	NCR-12	3.263	2.960	2.735	3.031	3.265	8.450	3.766	2.888	7.859	7.987	7.847	2.182

MONTHLY PUMPAGE (MG/M)

UTILITY	WELL#	JAN86	FEB86	MAR86	APR86	MAY86	JUN86	JUL86	AUG86	SEP86	OCT86	NOV86	DEC86
CITY OF NAPLES COASTAL RIDGE 11-00017	NCR-13	3.263	2.960	2.735	3.031	3.051	2.832	3.766	2.888	5.997	7.944	8.066	2.224
	NCR-14	3.263	2.960	2.735	3.031	3.315	2.832	3.766	2.888	7.736	7.987	8.050	2.187
	NCR-15	3.263	2.960	2.735	3.031	3.323	2.832	3.766	2.888	7.122	8.047	8.081	2.290
	NCR-16	3.263	2.960	2.735	3.031	3.323	2.832	3.766	2.888	7.122	8.047	8.081	2.290
	NCR-17	8.788	8.389	8.207	9.093	2.260	8.450	11.297	8.664	7.665	8.031	8.156	5.169
	NCR-18	9.788	8.389	8.207	9.093	2.260	8.450	11.297	8.664	7.665	8.031	8.156	5.169
	NCR-19	9.788	8.389	8.207	9.093	2.611	8.450	11.297	8.664	7.762	8.116	8.078	5.231
	NCR-20	9.788	8.389	8.207	9.093	2.892	8.450	11.297	8.664	7.480	8.116	8.078	5.231
	NCR-21	9.788	8.389	8.207	9.093	2.504	8.450	11.297	8.664	6.612	5.211	8.046	5.276
	NCR-22	9.788	8.389	8.207	9.093	2.504	8.450	11.297	8.664	0.092	4.951	8.046	5.276
	NCR-23	9.788	8.389	8.207	9.093	2.471	8.450	11.297	8.664	7.830	8.047	8.046	5.326
	NCR-24	9.788	8.389	8.207	9.093	2.471	8.450	11.297	8.664	7.830	8.047	8.046	5.326
	NCR-25	9.788	8.389	8.207	9.093	2.622	8.450	11.297	8.664	7.934	8.047	8.046	5.448
	NCR-26	9.788	8.389	8.207	9.093	2.622	8.450	11.297	8.664	7.934	8.047	8.046	5.448
CITY OF NAPLES E. GOLDEN GATE 11-00018	NCR-27	9.788	8.389	8.207	9.093	2.579	8.450	11.297	8.664	7.934	8.047	8.046	5.448
	NCR-28	9.788	8.389	8.207	9.093	2.579	8.450	11.297	8.664	7.934	8.047	8.046	5.448
	NCR-29	0.000	0.000	0.000	0.000	2.219	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NCR-30	0.000	0.000	0.000	0.000	2.219	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NCR-31	0.000	0.000	0.000	0.000	2.219	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NCR-32	0.000	0.000	0.000	0.000	2.218	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NCR-33	0.000	0.000	0.000	0.000	2.219	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NCR-34	0.000	0.000	0.000	0.000	2.219	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NEGG-1	15.887	15.616	16.785	18.065	14.314	7.519	6.812	12.188	6.011	0.000	6.812	13.722
	NEGG-2	15.887	15.616	16.785	18.546	14.314	7.519	6.812	12.188	6.011	12.155	6.812	13.722
	NEGG-3	15.887	15.616	16.785	18.734	14.314	7.519	6.812	12.188	6.011	11.363	6.812	13.722
	NEGG-4	22.838	22.443	24.129	25.408	20.576	10.809	9.793	17.521	8.641	17.113	12.466	19.726
	NEGG-5	28.796	28.298	30.426	33.483	25.944	13.628	11.921	22.092	10.896	22.244	15.718	24.872
	NEGG-6	22.838	22.443	24.129	25.370	20.576	10.809	9.793	17.521	8.641	18.310	12.466	19.726
	NEGG-7	28.796	28.298	30.426	33.186	25.944	13.628	11.921	22.092	10.896	22.899	15.718	24.872
	NEGG-8	28.796	28.298	30.426	33.283	25.944	13.628	11.921	22.092	10.896	21.367	15.718	24.872
	NEGG-9	22.838	22.443	24.129	15.137	20.576	10.809	9.793	17.521	8.641	18.310	12.466	19.726
	NEGG-10	22.838	22.443	24.129	25.747	20.576	10.809	9.793	17.521	8.641	16.755	12.466	19.726
	NEGG-11	19.363	19.027	20.457	22.383	17.445	9.164	8.302	14.856	7.326	15.057	10.569	16.724
	NEGG-12	22.838	22.443	24.129	26.004	20.576	10.809	9.793	17.521	8.641	18.548	12.466	19.726

MONTHLY PUMPAGE (MG/M)

UTILITY	WELL#	JAN86	FEB86	MAR86	APR86	MAY86	JUN86	JUL86	AUG86	SEP86	OCT86	NOV86	DEC86
CITY OF NAPLES E. GOLDEN GATE 11-00018	NEGG-13	22.838	22.443	24.129	25.737	20.576	10.809	9.793	17.521	8.641	17.984	12.466	19.726
	NEGG-14	22.838	22.443	24.129	0.000	20.576	10.809	9.793	17.521	8.641	12.613	12.466	19.726
	NEGG-16	32.271	31.713	34.095	36.443	29.075	15.273	13.837	24.758	12.211	14.018	17.615	27.873
	NEGG-17	32.271	31.713	34.095	35.582	29.075	15.273	13.837	24.758	12.211	0.000	17.615	27.873
	NEGG-18	32.271	31.730	34.095	35.853	29.075	15.273	13.837	24.758	12.211	26.932	17.615	27.873
	NEGG-19	32.271	31.730	34.095	0.000	29.075	15.273	13.837	24.758	12.211	0.000	17.615	27.873
	NEGG-20	32.271	31.730	34.095	0.000	29.075	15.273	13.837	24.758	12.211	0.000	17.615	27.873
	NEGG-21	19.363	19.027	20.457	0.000	17.445	9.164	8.302	14.855	7.326	0.000	10.569	16.724
	NEGG-22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NEGG-23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NEGG-24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PELICAN BAY IMP. DISTRICT 11-00052	PBID-1	5.212	5.412	5.741	6.433	6.074	5.166	5.272	5.287	5.682	6.179	6.367	6.372
	PBID-2	5.212	5.412	5.741	6.433	6.074	5.166	5.272	5.287	5.682	6.179	6.367	6.372
	PBID-3	5.212	5.412	5.741	6.433	6.074	5.166	5.272	5.287	5.682	6.179	6.367	6.372
	PBID-4	5.212	5.412	5.741	6.433	6.074	5.166	5.272	5.287	5.682	6.179	6.367	6.372
	PBID-5	5.212	5.412	5.741	6.433	6.074	5.166	5.272	5.287	5.682	6.179	6.367	6.372
	PBID-6	5.212	5.412	5.741	6.433	6.074	5.166	5.272	5.287	5.682	6.179	6.367	6.372
	PBID-7	5.212	5.412	5.741	6.433	6.074	5.166	5.272	5.287	5.682	6.179	6.367	6.372
MARCO ISLAND UTILITIES 11-00080	MIU-S1	18.869	20.654	19.714	22.877	22.531	21.044	11.972	16.635	13.713	14.560	17.604	17.485
	MIU-S2	18.869	20.654	19.714	22.877	22.531	21.044	11.972	16.635	13.713	14.560	17.604	17.485
	MIU-S3	13.977	15.299	14.603	16.946	16.680	15.588	8.868	12.322	10.158	10.785	13.040	12.952
	MIU-S4	13.977	15.299	14.603	16.946	16.680	15.588	8.868	12.322	10.158	10.785	13.040	12.952
	MIU-S5	11.977	10.709	10.222	11.862	11.683	10.912	6.207	8.625	7.111	7.550	9.128	9.066
	MIU-S6	32.147	35.188	33.587	38.976	38.387	35.852	20.396	28.341	23.363	24.806	29.992	29.790
	MIU-S7	32.147	35.188	33.587	38.976	38.387	35.852	20.396	28.341	23.363	24.806	29.992	29.790
FLORIDA CITIES GOLDEN GATE 11-00148	FCWC-1	0.042	0.120	0.000	0.000	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.100
	FCWC-3	3.627	1.393	0.424	0.000	1.031	2.094	2.118	1.137	1.678	0.881	0.275	0.289
	FCWC-4	4.147	3.325	5.878	3.940	4.106	3.941	2.459	4.796	5.741	3.885	1.235	0.729
	FCWC-5	4.829	6.223	6.267	7.558	7.376	5.677	7.542	7.689	6.006	8.108	10.564	10.383
	FCWC-8	4.832	6.086	6.178	8.029	7.327	5.662	7.192	6.960	6.334	8.733	9.677	10.644

MONTHLY PUMPAGE (MG/M)

UTILITY	WELL#	JAN86	FEB86	MAR86	APR86	MAY86	JUN86	JUL86	AUG86	SEP86	OCT86	NOV86	DEC86
EVERGLADE CITY COPELAND	EC-2	0.900	1.571	1.568	1.258	1.118	1.003	0.868	1.216	1.464	1.361	1.396	1.317
	EC-3	0.900	1.571	1.568	1.258	1.118	1.003	0.868	1.216	1.464	1.361	1.396	1.317
NORTH NAPLES UTILITIES	NNU-1	1.185	1.432	1.469	2.248	2.759	1.443	1.552	1.250	1.373	2.272	1.685	1.766
	NNU-2	1.185	1.432	1.469	2.248	2.759	1.443	1.552	1.250	1.373	2.272	1.685	1.766
COLLIER COUNTY UTILITIES 11-00249	CCU-1	28.002	30.685	24.087	31.824	26.882	19.853	17.656	17.749	19.708	22.258	26.479	27.111
	CCU-2	28.002	27.860	19.267	25.224	22.991	11.212	17.656	17.749	19.708	22.258	26.479	27.111
	CCU-3	28.002	30.895	24.179	31.899	22.056	15.348	17.656	17.749	19.708	22.258	26.479	27.111
	CCU-4	0.000	0.000	26.677	32.453	30.244	22.325	17.656	17.749	19.708	22.258	26.479	27.111
	CCU-5	28.002	30.946	26.598	21.999	29.904	22.925	17.656	17.749	19.708	22.258	26.479	27.111
	CCU-6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	CCU-7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	CCU-8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	CCU-9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	CCU-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	CCU-11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	CCU-12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	CCU-13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	CCU-14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	CCU-15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	CCU-16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PORT OF ISLAND 11-00271	POI-1	1.584	1.470	1.999	1.692	2.020	2.015	2.088	1.847	1.316	1.931	2.039	1.884
	POI-2	1.584	1.470	1.999	1.692	2.020	2.015	2.088	1.847	1.316	1.931	2.039	1.884
LEE COUNTY UTILITIES 36-00003	LCU-1	2.037	0.378	0.819	0.188	10.980	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	LCU-2	3.822	9.261	9.576	11.000	10.980	0.504	1.008	0.000	0.000	0.000	8.850	0.072
	LCU-3	5.523	8.484	2.289	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	LCU-4	4.242	1.995	11.090	0.000	0.000	0.000	0.987	0.000	0.000	0.000	7.959	7.560
	LCU-5	2.814	1.113	11.590	11.000	10.270	0.840	1.155	0.000	0.000	0.000	8.064	7.056
	LCU-6	4.536	0.000	10.180	11.000	10.270	1.008	1.008	0.000	0.000	0.000	6.552	7.560
	LCU-7	6.600	9.000	7.560	11.280	10.830	6.360	6.840	7.140	6.890	7.020	6.480	9.330
	LCU-8	6.660	8.250	6.840	9.750	7.620	5.760	7.920	6.840	7.530	7.350	7.500	8.610
	LCU-9	5.910	1.860	9.120	7.110	6.570	6.240	6.120	6.660	7.080	7.560	5.640	6.660

MONTHLY PUMPAGE (MG/M)

UTILITY	WELL#	JAN86	FEB86	MAR86	APR86	MAY86	JUN86	JUL86	AUG86	SEP86	OCT86	NOV86	DEC86
LEE COUNTY UTILITIES 36-00003	LCU-10	0.000	0.060	0.000	9.960	8.400	6.720	6.030	6.980	4.620	6.390	6.780	5.280
	LCU-11	6.960	9.540	8.100	3.570	7.440	7.200	6.150	3.060	3.450	6.300	7.860	7.500
	LCU-12	6.060	8.220	3.600	7.380	7.680	7.005	6.210	5.790	7.170	9.060	4.440	7.440
	LCU-13	4.320	6.930	3.210	4.770	4.830	6.390	7.230	6.530	6.480	7.830	3.780	1.440
	LCU-14	5.160	1.170	6.090	1.440	2.040	6.480	5.670	6.600	6.420	8.760	2.790	5.940
	LCU-15	4.500	8.430	2.880	3.900	3.360	6.720	5.700	6.860	7.020	7.020	4.320	3.330
	LCU-16	8.300	8.610	2.940	1.440	3.210	6.720	8.730	5.670	4.440	8.910	4.290	4.500
	LCU-18	6.690	5.850	7.820	7.590	6.750	6.720	5.820	6.420	5.670	8.250	5.490	7.830
	LCU-19	6.840	6.780	8.010	8.520	7.770	5.760	7.170	6.810	4.470	6.000	5.670	7.200
	LCU-20	6.750	4.320	0.180	9.240	8.520	6.300	6.490	6.900	7.020	8.280	6.330	8.970
	LCU-21	5.880	5.700	4.500	8.220	8.160	6.480	6.600	8.310	8.880	6.690	6.750	7.680
	LCU-22	6.270	2.520	4.320	2.520	4.380	7.200	5.700	5.940	6.030	8.040	4.920	4.560
	LCU-23	4.950	2.100	3.270	3.810	2.880	5.640	5.850	5.760	6.840	7.140	2.160	4.500
	LCU-24	6.900	4.660	8.160	10.200	10.620	6.570	7.620	7.230	6.180	8.700	7.650	7.710
BONTIA SPRINGS UTILITIES 36-00008	BSWS-1	4.615	4.373	4.814	4.818	4.253	3.292	3.541	3.177	3.279	0.000	0.000	0.000
	BSWS-2	3.289	3.116	3.431	3.434	3.031	2.346	2.524	2.264	2.337	0.000	0.000	0.000
	BSWS-3	3.289	3.116	3.431	3.434	3.031	2.346	2.524	2.264	2.337	0.000	0.000	0.000
	BSWS-4	3.289	3.116	3.431	3.434	3.031	2.346	2.524	2.264	2.337	3.825	1.086	1.458
	BSWS-5	6.843	6.484	7.138	7.146	6.306	4.881	5.251	4.710	4.861	6.401	7.157	6.408
	BSWS-6	3.289	3.116	3.431	3.434	3.031	2.346	2.524	2.264	2.337	1.224	0.732	0.000
	BSWS-7	6.896	6.534	7.193	7.201	6.355	4.919	5.292	4.747	4.899	6.102	11.880	8.334
	BSWS-8	2.918	2.764	3.043	3.047	2.689	2.081	2.239	2.008	2.073	2.970	3.609	4.104
	BSWS-9	3.872	3.869	4.039	4.044	3.568	2.762	2.972	2.665	2.751	3.864	5.028	5.292
	BSWS-10	7.002	6.634	7.304	7.312	6.452	4.995	5.373	4.820	4.975	9.702	1.932	7.862
	BSWS-11	7.639	7.238	7.968	7.977	7.039	5.449	5.862	5.258	5.427	9.639	12.474	14.580
GULF UTILITIES 36-00122	GULF-6	9.113	9.222	9.352	12.048	11.160	8.357	8.414	7.729	8.015	9.696	10.352	10.243
	GULF-7	3.048	3.084	3.128	4.029	3.732	2.795	2.814	2.585	2.680	3.242	3.339	3.304
	GULF-8	6.066	6.138	6.225	8.019	7.428	5.562	5.600	5.144	5.335	6.453	6.845	6.774
	GULF-9	7.575	7.665	7.773	10.014	9.276	6.946	6.993	6.424	6.662	8.059	8.515	8.426
	GULF-10	3.787	3.832	3.887	5.007	4.638	3.473	3.497	3.212	3.331	4.029	4.341	4.296

MONTHLY PUMPAGE (MG/M)

UTILITY	WELL#	JAN86	FEB86	MAR86	APR86	MAY86	JUN86	JUL86	AUG86	SEP86	OCT86	NOV86	DEC86
FLORIDA CITIES GREEN MEADOWS 36-00150	GM-1	19.739	11.449	12.837	18.050	16.847	14.282	16.763	10.211	10.960	23.673	8.688	5.938
	GM-1D	8.419	3.092	3.195	6.068	6.099	5.594	17.627	8.572	13.325	7.420	8.617	6.547
	GM-2	13.719	13.295	15.301	18.186	16.855	10.727	4.780	4.410	0.471	11.191	5.770	3.973
	GM-2A	11.567	2.815	1.464	7.544	2.727	8.923	1.209	12.348	7.577	7.713	4.647	0.102
	GM-3	0.000	0.000	0.000	3.372	14.667	15.343	11.015	11.415	12.929	10.551	14.719	17.510
	GM-3A	6.873	0.858	1.667	7.624	0.063	4.176	1.970	1.087	2.561	2.603	17.702	3.434
	GM-3B	6.218	2.527	0.812	7.833	2.291	1.856	0.483	9.480	17.964	14.635	0.444	19.901
	GM-4	16.884	16.657	21.647	16.834	8.389	0.000	0.000	0.000	0.000	0.000	15.531	28.286
	GM-4A	17.559	0.738	21.257	17.751	0.007	1.468	8.176	7.500	22.174	23.168	8.741	0.750
LEHIGH ACRES 36-00166	GM-5	20.945	19.079	21.228	20.597	21.489	17.554	20.000	14.474	0.000	22.927	20.879	21.579
	GM-6	6.403	0.000	9.244	10.864	19.514	12.442	14.546	9.855	0.000	0.000	4.011	0.514
	GM-7	6.014	18.565	17.822	15.161	15.957	16.992	18.021	18.833	19.578	0.000	11.606	19.070
	GM-9	5.410	19.011	19.349	6.327	7.423	0.000	0.533	0.000	0.000	0.000	12.158	20.226
	GM-9A	0.510	19.482	21.040	0.000	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.000
	LEH-1	2.560	3.170	3.015	3.345	1.702	2.219	2.219	1.912	0.615	2.875	2.254	2.509
	LEH-2	1.649	1.268	1.980	2.715	1.484	1.523	2.875	3.156	2.968	4.967	4.808	4.955
	LEH-3	3.760	4.813	5.600	5.621	4.686	4.454	3.841	2.980	4.409	4.970	2.520	4.857
	LEH-4	2.475	1.492	1.347	0.756	1.804	2.428	1.506	3.037	0.984	0.000	4.508	2.816
TREST INTERNATIONAL	LEH-5	1.896	0.601	2.595	0.988	2.190	1.278	1.986	1.393	2.358	1.079	1.972	0.980
	LEH-6	1.885	1.422	1.685	1.224	1.516	1.577	1.295	1.505	2.288	2.602	2.242	1.860
	LEH-7	3.910	4.539	4.510	5.726	3.758	3.739	3.850	3.104	2.173	3.607	4.855	2.121
	LEH-8	7.470	6.524	6.889	6.634	6.595	4.495	3.187	3.638	5.386	3.663	1.437	5.933
	LEH-9A	6.544	6.068	5.417	5.172	6.205	4.091	6.854	7.072	6.907	7.564	6.132	5.734
	TROST1	2.216	2.677	2.316	2.639	1.669	0.649	0.970	0.083	0.615	1.214	1.934	3.026
	TROST2	2.216	2.677	2.316	2.639	1.669	0.649	0.970	0.083	0.615	1.214	1.934	3.026
HARBOR UTILITIES 36-00366	HAR-1	0.585	0.390	0.420	0.366	0.243	0.198	0.198	0.185	0.168	0.211	0.256	0.380
	HAR-2	0.585	0.390	0.420	0.366	0.243	0.198	0.198	0.185	0.168	0.211	0.256	0.380
	HAR-3	0.585	0.390	0.420	0.366	0.243	0.198	0.198	0.185	0.168	0.211	0.256	0.380
	HAR-4	0.585	0.390	0.420	0.366	0.243	0.198	0.198	0.185	0.168	0.211	0.256	0.380
	HAR-5	0.585	0.390	0.420	0.366	0.243	0.198	0.198	0.185	0.168	0.211	0.256	0.380

		MONTHLY PUMPAGE (MG/M)											
UTILITY	WELL#	JAN87	FEB87	MAR87	APR87	MAY87	JUN87	JUL87	AUG87	SEP87	OCT87	NOV87	DEC87
IMMOKALEE WATER SEWER DISTRICT 11-00013	IWS-D-1	6.816	6.105	7.322	7.969	7.432	6.687	6.099	5.574	4.888	4.432	3.569	4.742
	IWS-D-7	6.816	6.105	7.322	7.969	7.432	6.687	6.099	5.574	4.888	4.432	3.569	4.742
	IWS-D-8	6.816	6.105	7.322	7.969	7.432	6.687	6.099	5.574	4.888	4.432	3.569	4.742
	IWS-D-9	6.816	6.105	7.322	7.969	7.432	6.687	6.099	5.574	4.888	4.432	3.569	4.742
	IWS-D-10	6.816	6.105	7.322	7.969	7.432	6.687	6.099	5.574	4.888	4.432	3.569	4.742
	IWS-D-11	6.816	6.105	7.322	7.969	7.432	6.687	6.099	5.574	4.888	4.432	3.569	4.742
	IWS-D-101	5.322	4.744	4.986	4.620	6.935	6.390	6.740	5.522	4.345	4.272	4.110	2.184
	IWS-D-102	5.322	4.744	4.986	4.620	6.935	6.390	6.740	5.522	4.345	4.272	4.110	2.184
	IWS-D-103	5.322	4.744	4.986	4.620	6.935	6.390	6.740	5.522	4.345	4.272	4.110	2.184
	IWS-D-201	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.072	11.826	13.645	14.698	13.079
	IWS-D-202	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.072	11.826	13.645	14.698	13.079
	IWS-D-301	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	IWS-D-302	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	IWS-D-303	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	IWS-D-304	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COLLIER CO. EAST NAPLES 11-00015	CCEN-35	1.898	1.885	2.221	1.956	1.692	2.282	2.026	2.036	2.325	1.956	1.800	2.002
	CCEN-76	1.898	1.885	2.221	1.956	1.692	2.282	2.026	2.036	2.325	1.956	1.800	2.002
	CCEN-77	1.898	1.885	2.221	1.856	1.692	2.282	2.026	2.036	2.325	1.956	1.800	2.002
	CCEN-78	1.898	1.885	2.221	1.956	1.692	2.282	2.026	2.036	2.325	1.956	1.800	2.002
	CCEN-1	1.898	1.885	2.221	1.956	1.692	0.000	0.000	0.000	0.000	1.956	1.800	2.002
	CCEN-2	1.898	1.885	2.221	1.956	1.692	0.000	0.000	0.000	0.000	1.956	1.800	2.002
CITY OF NAPLES COASTAL RIDGE 11-00017	NCR-1	1.594	1.174	0.053	1.581	1.363	1.876	7.916	9.133	3.789	2.455	4.684	6.454
	NCR-2	1.594	1.174	0.732	1.703	1.579	1.876	8.816	9.137	3.789	2.455	4.683	6.470
	NCR-3	1.594	1.174	0.732	1.703	1.579	1.876	8.816	9.137	3.789	2.455	4.683	6.470
	NCR-4	1.594	1.174	0.767	1.618	1.800	1.876	4.159	8.692	3.789	2.455	4.481	6.344
	NCR-5	1.594	1.174	0.767	1.618	1.800	1.876	8.159	8.692	3.789	2.455	4.481	6.344
	NCR-6	1.594	1.174	0.767	1.618	1.800	1.876	8.159	8.692	3.789	2.455	4.481	6.344
	NCR-7	1.594	1.174	0.583	1.687	1.742	1.876	8.752	9.065	3.789	2.455	4.606	5.665
	NCR-8	0.398	0.294	0.066	0.079	0.063	0.469	0.093	0.133	0.947	0.614	0.173	0.032
	NCR-9	1.195	0.882	0.715	1.668	1.519	1.407	8.658	9.083	2.841	1.841	4.489	6.501
	NCR-10	0.398	0.294	0.066	0.080	0.047	0.469	0.093	0.133	0.947	0.614	0.173	0.032
	NCR-11	1.195	0.885	0.746	1.809	1.713	1.407	8.313	8.804	2.841	1.841	4.631	6.517
	NCR-12	1.594	1.174	1.034	2.143	2.161	1.879	8.484	8.928	3.789	2.455	4.600	6.518

MONTHLY PUMPAGE (MG/M)

UTILITY	WELL#	JAN87	FEB87	MAR87	APR87	MAY87	JUN87	JUL87	AUG87	SEP87	OCT87	NOV87	DEC87
CITY OF NAPLES COASTAL RIDGE 11-00017	NCR-13	1.594	1.174	1.166	2.376	2.312	1.879	6.780	8.944	3.789	2.455	4.663	6.518
	NCR-14	1.594	1.174	1.151	2.375	2.509	1.879	2.519	7.473	3.789	2.455	4.647	6.534
	NCR-15	1.594	1.174	1.516	2.790	2.123	1.879	0.000	7.501	3.789	2.455	4.560	6.644
	NCR-16	1.594	1.174	1.516	2.790	2.448	1.879	0.000	7.554	3.789	2.455	4.560	5.809
	NCR-17	4.782	3.526	4.021	5.070	3.884	5.629	8.446	7.734	11.365	7.364	5.750	9.463
	NCR-18	4.782	3.526	4.021	5.070	3.884	5.629	8.446	7.734	11.365	7.364	5.750	9.463
	NCR-19	4.782	3.526	4.172	5.524	4.761	5.629	8.446	9.460	11.365	7.364	5.881	9.510
	NCR-20	4.782	3.526	4.172	5.524	4.887	5.629	8.446	9.460	11.365	7.364	5.944	9.510
	NCR-21	4.782	3.526	1.440	0.000	2.243	5.629	7.923	7.179	11.365	7.364	6.141	9.494
	NCR-22	4.782	3.526	3.755	5.482	4.218	5.629	7.923	9.350	11.365	7.364	6.395	9.494
	NCR-23	4.782	3.526	3.606	5.624	5.317	5.629	8.461	9.322	11.365	7.364	6.235	9.573
	NCR-24	4.782	3.526	3.683	5.624	5.317	5.629	8.461	9.322	11.365	7.364	6.235	9.573
	NCR-25	4.782	3.526	2.108	0.000	0.499	5.629	8.461	9.221	11.365	7.364	5.873	9.573
	NCR-26	4.782	3.526	3.477	4.492	2.795	5.629	8.461	9.221	11.365	7.364	5.873	9.573
CITY OF NAPLES E. GOLDEN GATE 11-00018	NCR-27	4.782	3.526	2.799	5.645	5.647	5.629	8.461	9.354	11.365	7.364	5.983	9.507
	NCR-28	4.782	3.526	4.299	5.645	5.647	5.629	8.461	9.354	11.365	7.364	5.983	9.507
	NCR-29	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NCR-30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NCR-31	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NCR-32	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NCR-33	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NCR-34	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NEGG-1	14.494	12.883	15.323	16.075	15.944	10.140	7.455	10.228	10.455	14.000	12.529	11.122
	NEGG-2	14.494	12.883	15.323	16.075	15.944	13.009	7.455	10.228	9.332	14.861	12.819	12.402
	NEGG-3	14.494	12.883	15.323	16.075	15.944	13.505	7.455	10.228	11.921	14.798	12.783	12.390
	NEGG-4	18.520	18.992	22.027	23.108	22.920	17.543	10.716	14.704	17.525	20.852	18.908	18.679
	NEGG-5	23.351	23.947	27.774	29.136	28.899	23.822	13.512	18.539	21.873	26.172	23.633	21.446
	NEGG-6	18.520	18.992	22.027	23.108	22.920	18.150	10.716	14.704	15.553	21.332	18.275	17.787
	NEGG-7	23.351	23.947	27.774	29.136	28.899	22.440	13.512	18.539	19.493	26.935	25.095	19.163
	NEGG-8	23.351	23.947	27.774	29.136	28.899	20.030	13.512	18.539	21.741	26.277	18.853	21.667
	NEGG-9	18.520	18.992	22.027	23.108	22.920	18.251	10.716	14.704	17.539	17.488	18.628	15.823
	NEGG-10	18.520	18.992	22.027	23.108	22.920	18.416	10.716	14.704	15.843	20.853	18.468	16.822
	NEGG-11	15.702	16.102	18.676	19.592	19.432	15.622	9.086	12.466	14.899	17.393	15.950	14.846
	NEGG-12	18.520	18.992	22.027	23.108	22.920	19.043	10.716	14.704	17.608	19.158	18.840	17.083

MONTHLY PUMPAGE (MG/M)

UTILITY	WELL#	JAN87	FEB87	MAR87	APR87	MAY87	JUN87	JUL87	AUG87	SEP87	OCT87	NOV87	DEC87
CITY OF NAPLES E. GOLDEN GATE 11-00018	NEGG-13	18,520	18,992	22,027	23,108	22,920	15,182	10,716	14,704	17,077	19,980	18,733	16,591
	NEGG-14	18,520	18,992	22,027	23,108	22,920	16,056	10,716	14,704	12,682	11,923	17,167	17,598
	NEGG-16	26,170	26,837	31,126	32,653	32,387	25,127	15,143	20,777	25,952	30,063	27,034	25,764
	NEGG-17	26,170	26,837	31,126	32,653	32,387	19,094	15,143	20,777	19,738	27,185	23,939	11,253
	NEGG-18	26,170	26,837	31,126	32,653	32,387	26,688	15,143	20,777	18,527	27,517	16,523	25,786
	NEGG-19	26,170	26,837	31,126	32,653	32,387	17,710	15,143	20,777	11,511	33,921	27,640	26,395
	NEGG-20	26,170	26,837	31,126	32,653	32,387	26,821	15,430	20,777	26,061	30,474	27,579	25,179
	NEGG-21	15,702	16,102	18,676	19,592	19,432	15,978	9,086	12,466	10,701	0.000	0.000	4,335
PELICAN BAY IMP. DISTRICT 11-00052	NEGG-22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NEGG-23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NEGG-24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	PBID-1	6,701	6,216	4,513	4,796	6,212	4,803	2,811	3,815	5,481	5,219	4,434	3,965
	PBID-2	6,701	6,216	4,513	4,796	6,212	4,803	2,811	3,815	5,481	5,219	4,434	3,965
	PBID-3	6,701	6,216	4,513	4,796	6,212	4,803	2,811	3,815	5,481	5,219	4,434	3,965
	PBID-4	6,701	6,216	4,513	4,796	6,212	4,803	2,811	3,815	5,481	5,219	4,434	3,965
	PBID-5	6,701	6,216	4,513	4,796	6,212	4,803	2,811	3,815	5,481	5,219	4,434	3,965
MARCO ISLAND UTILITIES 11-00080	PBID-6	6,701	6,216	4,513	4,796	6,212	4,803	2,811	3,815	5,481	5,219	4,434	3,965
	PBID-7	6,701	6,216	4,513	4,796	6,212	4,803	2,811	3,815	5,481	5,219	4,434	3,965
	MIU-S1	22,310	22,194	23,487	25,779	22,064	20,616	17,434	13,682	14,797	23,256	20,365	21,946
	MIU-S2	22,310	22,194	23,487	25,779	22,064	20,616	17,434	13,682	14,797	23,256	20,365	21,946
	MIU-S3	16,532	16,440	17,398	19,096	16,344	15,271	12,914	10,135	10,961	17,272	15,085	16,256
	MIU-S4	16,532	16,440	17,398	19,096	16,344	15,271	12,914	10,135	10,961	17,272	15,085	16,256
	MIU-S5	11,572	11,508	12,178	13,367	11,441	10,689	9,040	7,095	7,673	12,069	10,559	11,379
	MIU-S6	38,023	37,812	40,020	43,920	37,590	35,123	29,702	23,311	25,210	39,622	34,696	37,388
FLORIDA CITIES GOLDEN GATE 11-00148	MIU-S7	38,023	37,812	40,020	43,920	37,590	35,123	29,702	23,311	25,210	39,622	34,696	37,388
	FCWC-1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	FCWC-3	0.033	0.135	0.096	0.093	1.873	2.075	0.000	0.000	3.163	3.568	4.215	2.768
	FCWC-4	0.463	2.242	2.640	3.074	4.503	4.588	4.449	2.451	4.400	4.779	4.884	5.502
	FCWC-5	10,691	9,367	10,450	10,030	9,043	7,553	10,455	10,182	8,786	7,958	7,830	10,596
	FCWC-8	10,889	9,783	10,928	10,473	8,492	7,982	9,643	9,441	7,014	7,525	6,885	9,621

MONTHLY PUMPAGE (MG/M)

UTILITY	WELL#	JAN87	FEB87	MAR87	APR87	MAY87	JUN87	JUL87	AUG87	SEP87	OCT87	NOV87	DEC87
EVERGLADE CITY COPELAND	EC-2	1.525	1.746	1.553	1.523	1.443	1.025	1.147	1.183	1.313	1.203	1.125	1.330
	EC-3	1.525	1.746	1.553	1.523	1.443	1.025	1.147	1.183	1.313	1.203	1.125	1.330
NORTH NAPLES UTILITIES	NNU-1	1.997	2.037	2.610	2.898	2.659	2.318	1.593	1.940	1.714	1.824	1.854	2.142
	NNU-2	1.997	2.037	2.610	2.898	2.659	2.318	1.593	1.940	1.714	1.824	1.854	2.142
COLLIER COUNTY UTILITIES 11-00249	CCU-1	28.058	27.559	28.277	28.236	30.110	24.838	17.656	19.303	19.786	21.692	17.190	23.772
	CCU-2	28.058	27.559	28.277	28.236	30.110	24.838	17.656	19.303	19.786	21.692	19.404	23.772
	CCU-3	28.058	27.559	28.277	28.236	30.110	24.838	17.656	19.303	19.786	21.692	14.869	23.772
	CCU-4	28.058	27.559	28.277	28.236	30.110	24.838	17.656	19.303	19.786	21.692	33.903	23.772
	CCU-5	28.058	27.559	28.277	28.236	30.110	24.838	17.656	19.303	19.786	21.692	22.387	23.772
	CCU-6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	CCU-7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	CCU-8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	CCU-9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	CCU-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PORT OF ISLAND 11-00271	CCU-11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	CCU-12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	CCU-13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	CCU-14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	CCU-15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	CCU-16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	POI-1	1.821	1.711	1.885	1.903	1.865	1.844	1.898	2.282	2.113	2.353	2.150	1.892
	POI-2	1.921	1.711	1.885	1.903	1.865	1.844	1.898	2.282	2.113	2.353	2.150	1.892
LEE COUNTY UTILITIES 36-00003	LCU-1	0.000	0.777	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	LCU-2	8.001	7.938	7.434	7.560	5.922	4.536	1.008	1.008	1.260	1.008	6.048	7.896
	LCU-3	0.000	0.000	0.756	5.544	6.972	5.040	1.008	1.008	1.008	1.512	6.048	8.148
	LCU-4	8.484	6.720	5.460	7.644	6.510	4.137	1.008	1.008	1.008	1.008	6.048	7.980
	LCU-5	6.972	5.859	4.536	4.032	5.166	5.040	1.008	1.008	1.260	1.008	8.022	6.573
	LCU-6	8.085	6.783	7.224	5.544	5.670	5.040	1.008	1.008	1.134	1.134	8.526	6.573
	LCU-7	7.110	6.600	6.930	7.710	7.080	5.340	7.710	7.320	6.390	7.020	4.980	6.090
	LCU-8	5.880	4.950	7.860	6.030	7.680	7.710	8.250	8.100	6.900	8.430	5.760	5.970
	LCU-9	6.420	6.330	5.310	7.560	6.630	7.800	6.660	7.200	7.110	7.170	6.810	6.300

MONTHLY PUMPAGE (MG/M)

UTILITY	WELL#	JAN87	FEB87	MAR87	APR87	MAY87	JUN87	JUL87	AUG87	SEP87	OCT87	NOV87	DEC87
LEE COUNTY UTILITIES 36-00003	LCU-10	5.910	4.800	7.770	6.240	6.960	6.420	7.710	7.740	7.020	7.410	5.190	6.420
	LCU-11	7.050	6.390	6.980	7.500	7.200	8.130	7.380	7.890	7.290	6.840	6.750	6.540
	LCU-12	4.800	4.590	5.490	4.560	7.500	7.260	9.510	8.220	6.690	7.260	6.480	6.120
	LCU-13	2.790	2.550	6.510	2.880	4.080	6.810	6.480	3.780	7.200	7.980	0.720	0.510
	LCU-14	4.260	3.450	6.120	4.710	5.250	5.130	8.040	7.080	5.790	6.180	3.930	3.240
	LCU-15	4.170	2.160	3.870	5.040	4.080	5.760	5.760	7.110	5.970	6.660	6.100	5.580
	LCU-16	3.480	5.310	5.730	4.650	7.380	5.400	6.180	7.080	5.760	5.610	2.760	5.220
	LCU-18	5.520	6.000	8.100	6.060	6.900	4.800	6.480	6.840	6.240	6.240	4.470	5.520
	LCU-19	6.510	5.130	4.680	7.380	6.390	5.430	7.080	5.850	6.120	6.960	5.970	4.170
	LCU-20	5.070	6.300	7.170	5.400	6.420	5.640	5.160	6.030	6.090	6.720	6.060	6.720
BONTIA SPRINGS UTILITIES 36-00008	LCU-21	6.27	5.760	5.490	6.090	6.810	6.720	7.950	5.610	6.570	8.280	4.710	6.720
	LCU-22	5.100	4.830	7.140	2.820	5.100	5.700	5.040	5.820	6.330	5.910	4.860	5.610
	LCU-23	5.040	5.040	3.960	5.760	3.900	5.490	4.740	6.960	5.880	6.510	5.070	4.230
	LCU-24	5.070	5.660	7.410	6.420	7.200	6.270	6.660	6.300	6.690	8.250	4.880	5.880
	BSWS-1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	BSWS-2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	BSWS-3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	BSWS-4	0.582	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.135	0.000	0.459	0.000
	BSWS-5	12.247	9.878	16.128	8.845	14.516	0.737	12.499	12.120	8.266	11.544	3.578	16.392
	BSWS-6	0.000	1.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GULF UTILITIES 36-00122	BSWS-7	11.064	8.352	9.576	12.456	10.170	10.584	5.232	6.408	7.776	11.448	7.956	11.538
	BSWS-8	3.276	2.232	3.807	3.555	2.610	0.045	0.018	0.000	0.000	0.486	1.989	1.242
	BSWS-9	5.076	4.956	6.108	2.052	3.696	4.020	1.776	1.032	3.384	5.328	2.028	2.376
	BSWS-10	6.376	12.550	11.088	12.197	5.502	0.000	4.788	14.062	6.678	17.388	18.144	15.624
	BSWS-11	12.072	10.224	7.506	13.662	10.233	19.035	15.579	10.584	13.560	2.712	11.016	4.941
	GULF-6	0.000	0.000	11.375	12.871	11.862	9.355	9.529	9.907	10.039	10.535	10.275	10.943
	GULF-7	0.000	0.000	3.669	4.152	3.826	3.018	3.074	3.196	3.239	3.398	3.314	3.530
	GULF-8	0.000	0.000	7.523	8.511	7.844	6.186	6.302	6.551	6.639	6.966	6.795	7.236
	GULF-9	0.000	0.000	9.357	10.587	9.757	7.695	7.838	8.149	8.258	8.665	8.452	9.002
	GULF-10	0.000	0.000	4.771	5.397	4.974	3.923	3.996	4.155	4.210	4.418	4.309	4.589

MONTHLY PUMPAGE (MG/M)

UTILITY	WELL#	JAN87	FEB87	MAR87	APR87	MAY87	JUN87	JUL87	AUG87	SEP87	OCT87	NOV87	DEC87
FLORIDA CITIES GREEN MEADOWS 36-00150	GM-1	2.839	17.393	12.434	7.602	23.239	8.259	17.352	19.219	15.725	9.504	16.827	25.145
	GM-1D	4.318	3.813	3.028	2.244	2.987	5.458	3.769	7.777	7.793	4.191	17.180	14.079
	GM-2	9.653	9.864	12.843	13.123	5.459	7.019	14.002	12.829	11.702	6.410	10.635	5.393
	GM-2A	1.453	17.094	11.862	19.938	15.292	2.151	10.408	5.759	0.482	7.628	3.319	6.990
	GM-3	11.037	10.548	19.820	14.206	18.000	0.284	5.933	1.175	11.964	8.926	11.387	13.731
	GM-3A	4.535	4.849	1.842	3.588	3.680	9.698	6.255	7.830	4.542	4.908	1.807	3.135
	GM-3B	4.125	5.241	17.343	14.359	7.114	1.069	2.119	8.539	0.691	5.553	19.242	12.644
	GM-4	23.073	3.730	18.755	21.352	0.080	21.000	15.898	6.467	10.386	6.805	1.044	12.782
	GM-4A	22.887	20.417	3.107	0.000	16.057	0.017	23.095	3.095	11.885	10.403	0.001	0.108
	GM-5	21.641	19.212	20.698	20.598	0.012	19.976	21.871	7.486	19.986	19.918	12.654	18.461
LEHIGH ACRES 36-00166	GM-6	14.616	14.457	14.157	2.734	15.191	15.120	0.000	1.074	0.000	0.503	0.750	14.500
	GM-7	20.088	7.624	18.427	17.282	14.892	16.929	0.000	1.328	0.000	0.596	1.734	17.518
	GM-9	7.024	0.011	15.450	17.531	0.012	18.204	0.000	16.822	10.956	7.818	1.016	4.819
	GM-9A	12.187	19.940	5.872	0.000	22.905	0.036	0.000	0.003	9.717	13.551	19.127	18.310
	LEH-1	2.774	1.059	2.857	3.972	3.821	3.359	2.757	2.681	3.921	3.887	3.849	0.345
	LEH-2	5.035	4.925	5.863	5.102	4.893	4.376	4.804	5.334	5.051	5.282	4.737	5.057
	LEH-3	3.790	4.887	6.890	3.200	1.601	3.056	2.464	3.157	4.039	4.236	3.561	2.914
	LEH-4	2.895	2.050	2.733	2.533	3.231	3.589	2.330	3.234	2.876	3.615	3.183	2.012
	LEH-5	1.409	2.417	3.070	2.298	3.772	2.91	2.674	1.720	3.085	0.993	2.548	1.174
TROST INTERNATIONAL	LEH-6	1.787	2.445	2.144	2.786	1.425	1.851	1.641	1.010	0.731	0.225	0.239	0.395
	LEH-7	2.267	2.997	1.777	0.473	0.711	1.006	1.778	0.871	0.441	1.154	1.247	3.139
	LEH-8	7.111	4.476	1.962	6.886	5.704	4.175	3.638	4.720	0.935	3.572	3.298	5.910
	LEH-9A	5.904	5.868	7.080	6.035	6.006	5.188	5.707	6.289	7.557	0.799	7.393	7.149
	TROST1	3.434	3.055	2.807	2.514	2.195	0.838	1.085	0.815	0.525	0.496	1.012	0.835
HARBOR UTILITIES 36-00366	TROST2	3.434	3.055	2.807	2.514	2.195	0.838	1.085	0.815	0.525	0.496	1.012	0.835
	HAR-1	0.401	0.451	0.504	0.388	0.275	0.200	0.214	0.243	0.189	0.281	0.354	0.457
	HAR-2	0.401	0.451	0.504	0.388	0.275	0.200	0.214	0.243	0.189	0.281	0.354	0.457
	HAR-3	0.401	0.451	0.504	0.388	0.275	0.200	0.214	0.243	0.189	0.281	0.354	0.457
	HAR-4	0.401	0.451	0.504	0.388	0.275	0.200	0.214	0.243	0.189	0.281	0.354	0.457
	HAR-5	0.401	0.451	0.504	0.388	0.275	0.200	0.214	0.243	0.189	0.281	0.354	0.457

MONTHLY PUMPAGE (MG/M)

UTILITY	WELL#	JAN88	FEB88	MAR88	APR88	MAY88	JUN88	JUL88	AUG88	SEP88	OCT88	NOV88	DEC88
IMMOKALEE WATER SEWER DISTRICT 11-00013	IWSD-1	5.143	5.021	5.265	5.722	5.711	4.641	4.368	4.520	4.270	5.133	4.631	4.648
	IWSD-7	5.143	5.021	5.265	5.722	5.711	4.641	4.368	4.520	4.270	5.133	4.631	4.648
	IWSD-8	5.143	5.021	5.265	5.722	5.711	4.641	4.368	4.520	4.270	5.133	4.631	4.648
	IWSD-9	5.143	5.021	5.265	5.722	5.711	4.641	4.368	4.520	4.270	5.133	4.631	4.648
	IWSD-10	5.143	5.021	5.265	5.722	5.711	4.641	4.368	4.520	4.270	5.133	4.631	4.648
	IWSD-11	5.143	5.021	5.265	5.722	5.711	4.641	4.368	4.520	4.270	5.133	4.631	4.648
	IWSD-101	3.951	4.029	4.525	5.541	6.200	5.463	5.486	6.642	6.741	7.043	6.742	7.213
	IWSD-102	3.951	4.029	4.525	5.541	6.200	5.463	5.486	6.642	6.741	7.043	6.742	7.213
	IWSD-103	3.951	4.029	4.525	5.541	6.200	5.463	5.486	6.642	6.741	7.043	6.742	7.213
	IWSD-201	11.935	10.733	12.030	14.837	15.154	10.821	9.763	10.133	12.013	15.277	15.445	16.601
	IWSD-202	11.935	10.733	12.030	14.837	15.154	10.821	9.763	10.133	12.013	15.277	15.445	16.601
	IWSD-301	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	IWSD-302	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	IWSD-303	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	IWSD-304	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COLLIER CO EAST NAPLES 11-00015	CCEN-35	2.203	2.464	2.693	2.633	2.641	2.017	2.423	2.149	2.092	2.358	2.774	2.689
	CCEN-76	2.203	2.464	2.693	2.633	2.641	2.017	2.423	2.149	2.092	2.358	2.774	2.689
	CCEN-77	2.203	2.464	2.693	2.633	2.641	2.017	2.423	2.149	2.092	2.358	2.774	2.689
	CCEN-78	2.203	2.464	2.693	2.633	2.641	2.017	2.423	2.149	2.092	2.358	2.774	2.689
	CCEN-1	2.203	2.464	2.693	2.633	2.641	2.017	0.000	0.000	0.000	2.358	2.774	2.689
	CCEN-2	2.203	2.464	2.693	2.633	2.641	2.017	0.000	0.000	0.000	2.358	2.774	2.689
CITY OF NAPLES COASTAL RIDGE 11-00017	NCR-1	2.949	2.028	2.928	4.576	3.252	1.887	1.423	3.206	6.821	6.451	1.530	1.821
	NCR-2	2.580	2.217	3.209	4.448	3.112	1.785	1.071	3.540	2.256	3.135	1.629	1.028
	NCR-3	2.580	2.217	3.209	4.448	3.112	1.785	1.071	3.540	2.256	3.135	1.629	1.028
	NCR-4	2.592	2.240	2.799	4.515	3.172	1.960	1.025	3.818	6.764	7.040	1.604	1.074
	NCR-5	2.592	2.240	2.799	4.515	3.172	1.960	1.025	3.818	6.764	7.040	1.604	1.074
	NCR-6	2.592	2.240	2.799	4.515	3.172	1.960	1.025	3.818	6.764	7.040	1.604	1.074
	NCR-7	2.635	2.131	2.627	4.586	3.326	1.787	1.192	3.936	7.084	6.891	2.113	1.282
	NCR-8	0.078	0.062	0.094	0.063	0.031	0.075	0.038	0.319	0.042	0.025	0.609	0.025
	NCR-9	2.632	2.049	2.996	5.032	3.317	1.910	1.119	3.898	6.587	7.457	2.247	2.142
	NCR-10	0.078	0.062	0.094	0.063	0.031	0.075	0.038	0.319	0.042	0.040	0.589	0.025
	NCR-11	2.895	1.167	2.885	4.869	3.510	1.835	1.131	4.162	7.064	7.632	2.908	0.382
	NCR-12	3.035	0.430	2.691	4.884	3.750	1.923	1.270	4.379	6.841	7.794	2.776	0.155

MONTHLY PUMPAGE (MG/M)

UTILITY	WELL#	JAN88	FEB88	MAR88	APR88	MAY88	JUN88	JUL88	AUG88	SEP88	OCT88	NOV88	DEC88
CITY OF NAPLES COASTAL RIDGE 11-00017	NCR-13	3.113	0.552	3.006	5.133	3.859	2.050	1.272	4.479	6.874	5.965	2.852	0.749
	NCR-14	3.194	2.434	3.366	4.918	3.973	2.503	1.351	4.933	2.935	3.853	3.379	0.951
	NCR-15	3.254	2.354	3.761	6.040	4.424	2.630	1.382	5.336	7.067	8.158	3.847	1.346
	NCR-16	2.588	2.354	3.761	6.040	4.424	2.630	1.382	5.336	7.067	8.158	3.847	1.346
	NCR-17	8.030	5.884	7.394	7.742	5.954	4.547	2.856	5.512	6.934	8.312	4.027	4.859
	NCR-18	8.329	5.884	7.394	7.742	6.058	4.547	2.856	5.512	6.934	8.312	4.027	4.859
	NCR-19	8.685	6.197	7.330	7.694	6.131	4.658	3.069	5.638	6.966	8.328	4.531	5.363
	NCR-20	8.685	6.197	7.330	7.694	6.131	4.658	3.069	5.638	6.966	8.328	4.531	5.363
	NCR-21	8.679	6.376	7.456	7.807	6.221	5.011	3.635	5.704	2.696	4.206	4.699	5.563
	NCR-22	8.679	6.376	7.456	7.807	6.221	5.011	3.635	5.704	2.696	4.206	4.699	5.563
	NCR-23	8.805	6.771	7.840	7.794	6.142	5.137	3.858	5.875	6.052	8.340	4.857	5.624
	NCR-24	8.805	6.771	7.840	7.794	6.142	5.137	3.858	5.875	6.052	8.340	4.857	5.624
	NCR-25	8.801	7.021	7.930	7.920	6.412	5.111	4.110	5.890	5.902	7.779	4.510	5.266
	NCR-26	8.801	7.021	7.930	7.920	6.412	5.111	4.110	5.890	5.902	7.779	4.962	5.766
CITY OF NAPLES E. GOLDEN GATE 11-00018	NCR-27	8.898	6.927	7.899	7.895	6.412	5.111	4.211	5.970	1.387	4.053	5.171	5.779
	NCR-28	8.898	6.927	7.899	7.895	6.412	5.111	4.211	5.970	1.387	4.053	5.171	5.779
	NCR-29	1.403	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.659	0.000
	NCR-30	1.502	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.659	0.000
	NCR-31	1.370	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.659	0.000
	NCR-32	1.403	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.659	0.000
	NCR-33	1.370	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.659	0.000
	NCR-34	1.502	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.659	0.000
	NEGG-1	14.201	14.666	13.748	15.455	14.061	15.166	15.380	14.020	1.374	15.458	14.293	15.236
	NEGG-2	14.826	15.205	16.577	17.266	17.567	16.095	15.327	14.674	10.459	13.652	13.276	16.302
	NEGG-3	14.836	12.874	10.436	15.256	16.478	13.531	8.713	14.479	10.800	15.531	14.585	16.105
	NEGG-4	22.014	22.418	23.543	24.273	24.730	23.254	22.418	22.189	18.291	23.079	18.397	22.650
	NEGG-5	27.594	26.308	29.950	30.606	31.796	29.866	28.578	27.237	22.524	19.232	0.000	0.960
	NEGG-6	21.282	21.875	23.138	24.239	24.730	23.008	21.719	20.584	16.503	19.443	21.101	22.859
	NEGG-7	27.757	28.339	25.867	30.227	28.995	16.599	25.898	3.627	3.682	11.488	24.231	26.501
	NEGG-8	26.690	28.482	29.837	31.209	31.589	27.844	28.400	10.805	5.304	23.676	27.757	29.134
	NEGG-9	21.100	21.953	22.802	23.963	24.335	22.960	21.346	21.439	15.886	22.457	20.900	22.472
	NEGG-10	20.920	21.778	22.633	24.273	24.601	23.531	22.472	21.361	16.495	22.684	20.237	22.578
	NEGG-11	18.269	18.987	19.852	20.806	21.197	19.776	18.085	17.649	15.598	17.423	18.081	19.489
	NEGG-12	21.160	21.889	20.604	23.957	24.569	23.346	22.279	21.059	15.962	21.186	20.717	22.339

MONTHLY PUMPAGE (MG/M)

UTILITY	WELL#	JAN88	FEB88	MAR88	APR88	MAY88	JUN88	JUL88	AUG88	SEP88	OCT88	NOV88	DEC88
CITY OF NAPLES E. GOLDEN GATE 11-00018	NEGG-13	18.764	22.054	20.396	24.273	24.730	23.260	15.335	5.503	0.000	14.739	22.137	23.171
	NEGG-14	21.279	21.980	22.728	24.273	24.730	22.999	15.428	13.698	10.696	19.631	21.669	23.517
	NEGG-16	30.009	31.799	33.194	34.468	34.196	31.341	31.565	28.622	2.368	29.378	30.618	33.220
	NEGG-17	18.549	31.660	33.148	28.255	33.864	31.500	32.465	18.613	24.798	29.145	31.303	32.625
	NEGG-18	30.941	31.649	32.089	34.676	34.847	32.985	32.923	28.953	24.984	28.803	31.663	33.079
	NEGG-19	29.919	31.836	33.339	34.676	34.469	33.321	31.134	29.403	23.452	31.277	31.359	31.826
	NEGG-20	10.232	12.487	33.781	34.676	35.187	32.742	33.304	30.649	0.000	0.864	15.394	33.321
	NEGG-21	18.103	18.781	0.101	12.866	20.852	19.153	17.988	12.454	11.231	18.383	18.713	18.433
PELICAN BAY IMP. DISTRICT 11-00052	NEGG-22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NEGG-23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NEGG-24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	PBID-1	4.612	3.753	4.470	7.260	8.526	7.869	5.796	5.223	3.998	8.957	6.799	7.009
	PBID-2	4.612	3.753	4.470	7.260	8.526	7.869	5.796	5.223	3.998	8.957	6.799	7.009
	PBID-3	4.612	3.753	4.470	7.260	8.526	7.869	5.796	5.223	3.998	8.957	6.799	7.009
	PBID-4	4.612	3.753	4.470	7.260	8.526	7.869	5.796	5.223	3.998	8.957	6.799	7.009
	PBID-5	4.612	3.753	4.470	7.260	8.526	7.869	5.796	5.223	3.998	8.957	6.799	7.009
MARCO ISLAND UTILITIES 11-00080	PBID-6	4.612	3.753	4.470	7.260	8.526	7.869	5.796	5.223	3.998	8.957	6.799	7.009
	PBID-7	4.612	3.753	4.470	7.260	8.526	7.869	5.796	5.223	3.998	8.957	6.799	7.009
	MIU-S1	22.310	22.194	23.487	25.779	22.064	20.616	17.434	13.682	14.797	23.256	20.365	21.946
	MIU-S2	22.310	22.194	23.487	25.779	22.064	20.616	17.434	13.682	14.797	23.256	20.365	21.946
	MIU-S3	16.532	16.440	17.398	19.096	16.344	15.271	12.914	10.135	10.961	17.272	15.085	16.256
	MIU-S4	16.532	16.440	17.398	19.096	16.344	15.271	12.914	10.135	10.961	17.272	15.085	16.256
	MIU-S5	11.572	11.508	12.178	13.367	11.441	10.689	9.040	7.095	7.673	12.059	10.559	11.379
	MIU-S6	38.023	37.812	40.020	43.920	37.590	35.123	29.702	23.311	25.210	39.622	34.696	37.388
FLORIDA CITIES GOLDEN GATE 11-00148	MIU-S7	38.023	37.812	40.020	43.920	37.590	35.123	29.702	23.311	25.210	39.622	34.696	37.388
	FCWC-1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.101	9.053	9.318
	FCWC-3	3.595	2.948	3.758	3.680	3.756	3.528	2.226	3.188	2.753	4.132	3.693	4.549
	FCWC-4	5.750	4.600	4.585	6.065	5.548	4.399	3.903	4.893	5.233	5.461	5.630	6.215
	FCWC-5	11.037	10.245	10.950	10.620	10.508	9.968	7.584	9.334	8.658	6.280	4.461	3.384
	FCWC-8	9.911	8.919	9.136	9.830	10.136	8.511	7.299	9.021	7.302	4.744	3.590	3.287

MONTHLY PUMPAGE (MG/M)

UTILITY	WELL#	JAN88	FEB88	MAR88	APR88	MAY88	JUN88	JUL88	AUG88	SEP88	OCT88	NOV88	DEC88
EVERGLADE CITY COPELAND	EC-2	1.588	1.684	1.976	1.848	1.409	1.127	1.164	1.212	0.105	1.269	1.739	2.090
	EC-3	1.588	1.684	1.976	1.848	1.409	1.127	1.164	1.212	0.105	1.269	1.739	2.090
NORTH NAPLES UTILITIES	NNU-1	2.495	2.275	2.454	2.828	2.710	2.362	1.638	1.227	2.192	3.018	2.969	2.479
	NNU-2	2.495	2.275	2.454	2.828	2.710	2.362	1.638	1.227	2.192	3.018	2.969	2.479
COLLIER COUNTY UTILITIES 11-00249	CCU-1	24.331	24.679	15.031	15.515	6.310	9.176	7.216	5.259	8.445	15.487	13.826	14.862
	CCU-2	24.331	24.679	15.031	15.515	6.310	9.176	7.216	5.259	12.108	15.487	13.826	14.862
	CCU-3	24.331	24.679	15.031	15.515	6.310	9.176	7.216	5.259	0.000	15.487	13.826	14.862
	CCU-4	24.331	24.679	15.031	15.515	6.310	9.176	7.216	5.259	4.858	15.487	13.826	14.862
	CCU-5	24.331	24.679	15.031	15.515	6.310	9.176	7.216	5.259	3.823	15.487	13.826	14.862
	CCU-6	0.000	0.000	0.000	0.000	6.310	9.176	7.216	5.259	0.000	15.487	13.826	14.862
	CCU-7	0.000	0.000	0.000	0.000	6.310	9.176	7.216	5.259	0.041	15.487	13.826	14.862
	CCU-8	0.000	0.000	0.000	0.000	6.310	9.176	7.216	5.259	0.000	15.487	13.826	14.862
	CCU-9	0.000	0.000	0.000	15.515	6.310	9.176	7.216	5.259	7.473	15.487	13.826	14.862
	CCU-10	0.000	0.000	0.000	15.515	6.310	9.176	7.216	5.259	0.000	15.487	13.826	14.862
	CCU-11	0.000	0.000	15.031	15.515	6.310	9.176	7.216	5.259	2.254	15.487	13.826	14.862
	CCU-12	0.000	0.000	0.000	15.515	6.310	9.176	7.216	5.259	0.000	15.487	13.826	14.862
	CCU-13	0.000	0.000	15.031	15.515	6.310	9.176	7.216	5.259	0.582	15.487	13.826	14.862
	CCU-14	0.000	0.000	0.000	0.000	0.000	9.176	7.216	5.259	0.399	15.487	13.826	14.862
	CCU-15	0.000	0.000	15.031	15.515	6.310	9.176	7.216	5.259	2.715	15.487	13.826	14.862
	CCU-16	0.000	0.000	15.031	0.000	6.310	9.176	7.216	5.259	9.410	15.487	13.826	14.862
PORT OF ISLAND 11-00271	POI-1	1.759	1.627	1.719	1.743	1.920	1.587	1.488	1.397	1.301	1.615	2.106	1.310
	POI-2	1.759	1.627	1.719	1.743	1.920	1.587	1.488	1.397	1.301	1.615	2.106	1.310
LEE COUNTY UTILITIES 36-00003	LCU-1	7.560	5.376	9.597	10.080	3.108	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	LCU-2	7.560	6.888	4.221	8.054	9.219	6.846	4.305	4.977	3.843	4.032	3.360	2.940
	LCU-3	7.560	5.376	6.741	8.084	7.329	0.000	0.000	0.000	0.000	0.000	0.000	2.583
	LCU-4	5.943	5.544	8.337	6.972	7.140	3.780	0.819	0.777	3.927	4.368	3.423	4.200
	LCU-5	8.001	6.552	5.355	6.972	8.883	8.756	2.646	5.040	3.717	4.032	3.444	2.709
	LCU-6	8.001	5.544	5.481	5.040	8.883	5.229	7.245	4.767	3.980	3.192	5.145	3.528
	LCU-7	6.030	5.820	9.030	11.730	12.540	8.610	12.540	9.120	8.340	9.480	11.820	12.390
	LCU-8	7.290	8.910	7.350	8.550	11.100	12.180	7.560	8.730	7.560	8.490	8.820	10.230
	LCU-9	6.750	5.550	8.480	7.707	11.880	8.880	11.220	9.240	7.860	10.800	11.250	11.970

MONTHLY PUMPAGE (MG/M)

UTILITY	WELL#	JAN88	FEB88	MAR88	APR88	MAY88	JUN88	JUL88	AUG88	SEP88	OCT88	NOV88	DEC88
LEE COUNTY UTILITIES 36-000003	LCU-10	5.280	7.830	6.510	8.970	8.160	12.300	8.940	9.660	7.320	9.600	11.340	9.360
	LCU-11	4.230	5.280	8.070	10.800	9.420	8.820	10.410	8.790	8.700	11.520	13.020	12.810
	LCU-12	6.090	7.500	8.070	7.710	9.810	9.600	9.120	8.550	7.830	10.860	10.860	9.330
	LCU-13	4.830	5.400	3.090	6.210	5.100	2.880	9.450	7.200	5.040	8.130	7.590	8.340
	LCU-14	5.940	5.310	6.150	5.730	3.990	6.210	7.350	7.410	5.880	10.080	8.520	8.940
	LCU-15	4.320	5.400	6.210	5.730	5.040	5.850	9.630	6.450	5.460	9.450	9.120	9.120
	LCU-16	5.640	3.960	7.500	7.320	2.490	0.000	0.180	0.210	6.870	8.820	0.570	5.130
	LCU-18	6.450	4.680	7.440	11.550	6.540	11.700	9.960	6.600	8.070	12.120	11.910	12.120
	LCU-19	5.370	6.870	7.680	7.920	8.100	8.490	6.030	5.760	6.870	10.290	9.420	7.110
	LCU-20	6.330	3.510	6.270	7.860	5.220	11.070	10.650	8.730	7.350	10.100	10.470	11.820
	LCU-21	4.710	8.760	7.140	5.730	9.450	11.340	1.230	7.110	5.430	7.650	11.160	13.410
	LCU-22	4.680	5.370	8.310	6.300	3.540	0.360	0.300	2.100	7.620	10.410	5.100	0.000
	LCU-23	5.250	3.240	7.500	6.090	4.080	6.000	6.810	6.480	6.480	11.640	7.950	12.270
	LCU-24	4.950	8.850	9.810	5.430	9.090	11.250	9.420	8.310	7.170	11.940	11.730	11.340
BONTIA SPRINGS UTILITIES 36-000008	BSWS-1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	BSWS-2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	BSWS-3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	BSWS-4	0.000	0.000	6.120	1.314	0.000	0.232	0.000	0.000	0.000	0.000	0.000	6.372
	BSWS-5	18.472	16.552	15.422	16.296	13.951	10.781	10.588	17.362	16.251	15.094	13.296	13.608
	BSWS-6	0.000	0.576	8.928	8.136	5.225	1.358	2.916	1.668	1.561	0.000	8.544	5.562
	BSWS-7	12.384	15.480	11.592	11.439	9.969	10.967	9.768	3.381	3.165	11.616	3.159	12.312
	BSWS-8	0.720	0.432	1.809	2.592	2.670	3.165	5.121	4.212	3.942	2.322	5.196	4.284
	BSWS-9	3.732	2.604	5.644	7.104	5.315	3.132	1.908	3.000	2.808	1.944	5.196	5.94
	BSWS-10	15.603	9.681	12.033	14.091	14.276	11.119	12.298	7.488	7.009	15.816	11.208	14.973
	BSWS-11	4.347	14.760	4.590	7.506	6.995	7.379	6.199	10.881	10.165	15.930	14.52	4.242
GULF UTILITIES 36-00122	GULF-6	11.361	11.546	13.434	15.570	17.319	13.558	12.161	10.943	11.872	14.859	13.625	16.615
	GULF-7	3.665	3.757	4.336	5.023	5.587	4.374	3.923	3.530	3.829	4.793	4.395	5.359
	GULF-8	7.512	7.702	8.884	10.296	11.453	8.966	8.042	7.236	7.851	9.826	9.009	10.987
	GULF-9	9.345	8.453	11.061	12.808	14.246	11.529	10.003	9.002	9.765	12.222	11.207	13.667
	GULF-10	4.764	4.884	5.634	6.529	7.263	5.686	5.099	4.589	4.979	6.232	5.714	6.957

MONTHLY PUMPAGE (MG/M)

UTILITY	WELL#	JAN88	FEB88	MAR88	APR88	MAY88	JUN88	JUL88	AUG88	SEP88	OCT88	NOV88	DEC88
FLORIDA CITIES GREEN MEADOWS 36-00150	GM-1	20.571	20.543	20.688	17.682	2.541	11.178	2.400	0.000	0.000	0.284	5.839	3.479
	GM-1D	4.875	15.701	19.529	11.431	17.487	15.271	9.068	20.986	20.745	14.674	12.057	11.577
	GM-2	6.648	2.574	9.588	9.772	6.290	5.887	5.441	4.621	0.119	7.800	11.516	8.632
	GM-2A	4.346	7.987	12.407	4.568	6.931	8.676	12.865	3.498	5.783	0.490	7.756	4.622
	GM-3	13.272	10.852	5.953	9.798	11.030	20.286	9.222	0.565	1.545	5.064	4.568	14.584
	GM-3A	1.487	20.381	16.012	5.419	12.816	5.486	11.034	21.206	21.048	18.110	11.061	6.314
	GM-3B	8.297	6.666	14.752	7.393	15.960	18.292	18.349	8.470	20.460	16.345	12.587	17.660
	GM-4	4.023	7.396	20.992	16.868	9.887	17.863	9.659	1.967	20.439	5.245	19.826	16.067
	GM-4A	18.994	11.766	1.945	17.178	17.830	11.143	13.073	6.535	18.277	18.056	0.082	7.444
	GM-5	21.278	19.001	11.916	12.454	8.603	9.007	14.896	11.209	3.342	12.516	18.280	15.332
LEHIGH ACRES 36-00166	GM-6	16.070	0.000	1.200	10.286	14.461	9.398	1.459	2.506	0.126	1.292	1.897	0.008
	GM-7	18.302	0.000	1.320	10.339	18.021	6.010	3.550	4.024	0.003	0.000	0.366	5.417
	GM-9	12.034	11.846	16.497	12.211	17.787	12.180	11.504	8.131	0.001	6.663	15.659	3.987
	GM-9A	16.938	10.644	7.331	13.573	15.057	4.382	12.898	4.680	0.027	4.125	21.012	19.675
	LEH-1	3.840	3.289	2.847	3.608	3.608	2.806	2.688	1.962	2.510	3.573	3.602	4.016
	LEH-2	4.938	3.284	4.546	4.231	4.023	3.998	3.564	2.445	1.866	4.562	4.644	5.070
	LEH-3	2.543	3.221	5.585	3.549	3.805	3.840	3.897	4.688	4.686	3.686	4.242	5.871
	LEH-4	3.388	1.768	2.787	3.196	2.976	1.672	2.958	2.616	1.173	2.132	3.190	1.413
	LEH-5	1.943	3.412	1.609	2.568	2.924	0.790	0.954	1.081	1.439	1.599	0.823	0.785
	LEH-6	1.864	1.704	1.684	2.054	1.134	1.243	0.858	0.255	0.974	1.523	1.830	2.065
TROST INTERNATIONAL	LEH-7	3.105	3.999	2.307	3.432	2.527	1.988	2.675	3.589	4.200	4.480	1.450	1.119
	LEH-8	4.795	5.771	7.337	2.921	4.445	4.586	4.800	5.959	6.250	5.812	7.165	6.800
	LEH-9A	7.676	7.131	7.439	7.246	7.383	6.855	6.724	6.616	6.411	7.217	7.097	7.267
TROST INTERNATIONAL	TROST1	2.984	1.283	1.522	0.494	0.189	1.143	0.971	1.184	1.219	2.270	2.800	2.654
	TROST2	2.984	1.283	1.522	0.494	0.189	1.143	0.971	1.184	1.219	2.270	2.800	2.654
HARBOR UTILITIES 36-00366	HAR-1	0.478	0.380	0.523	0.490	0.366	0.263	0.206	0.196	0.236	0.242	0.310	0.434
	HAR-2	0.478	0.380	0.523	0.490	0.366	0.263	0.206	0.196	0.236	0.242	0.310	0.434
	HAR-3	0.478	0.380	0.523	0.490	0.366	0.263	0.206	0.196	0.236	0.242	0.310	0.434
	HAR-4	0.478	0.380	0.523	0.490	0.366	0.263	0.206	0.196	0.236	0.242	0.310	0.434
	HAR-5	0.478	0.380	0.523	0.490	0.366	0.263	0.206	0.196	0.236	0.242	0.310	0.434

APPENDIX H

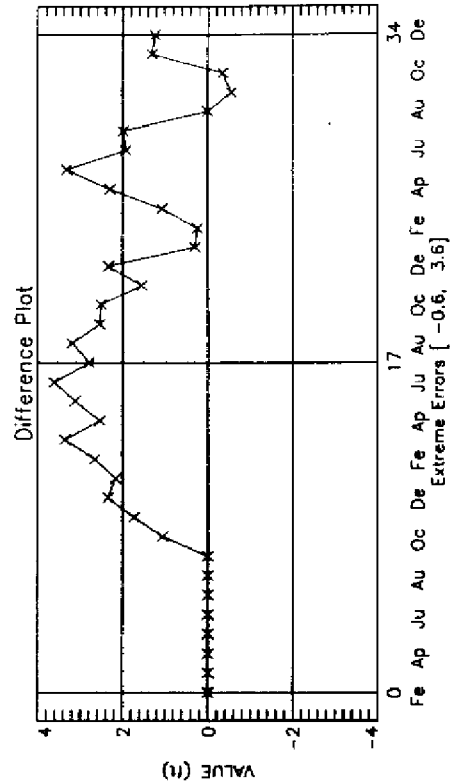
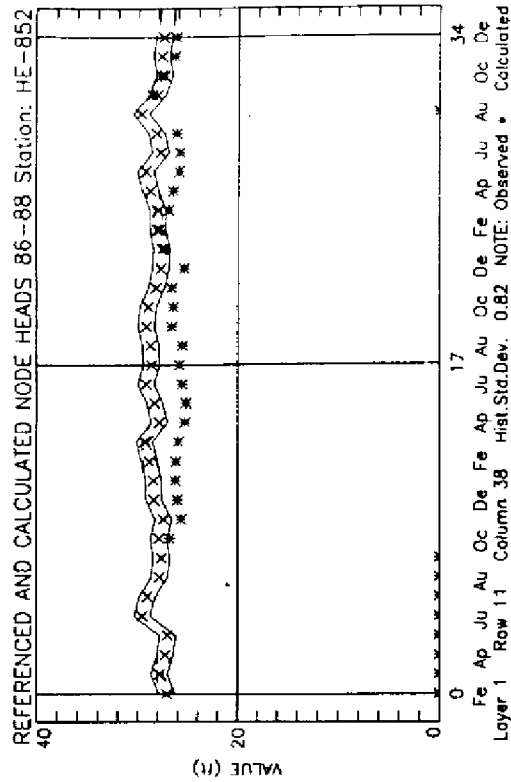
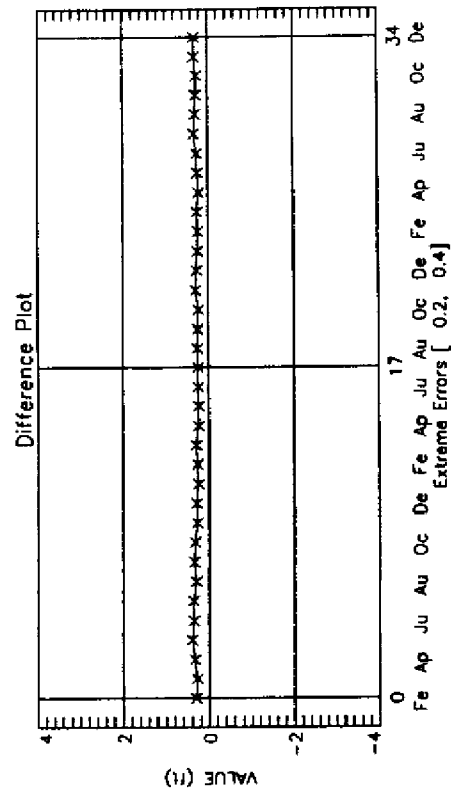
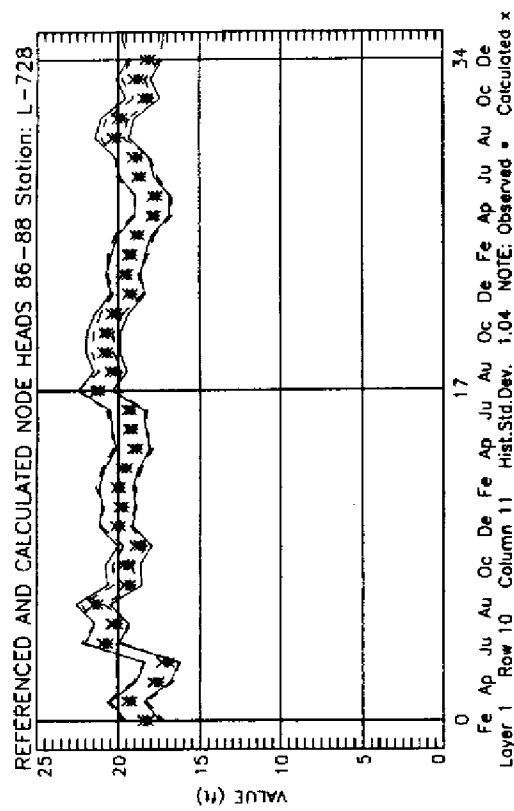
COMPARATIVE HYDROGRAPHS

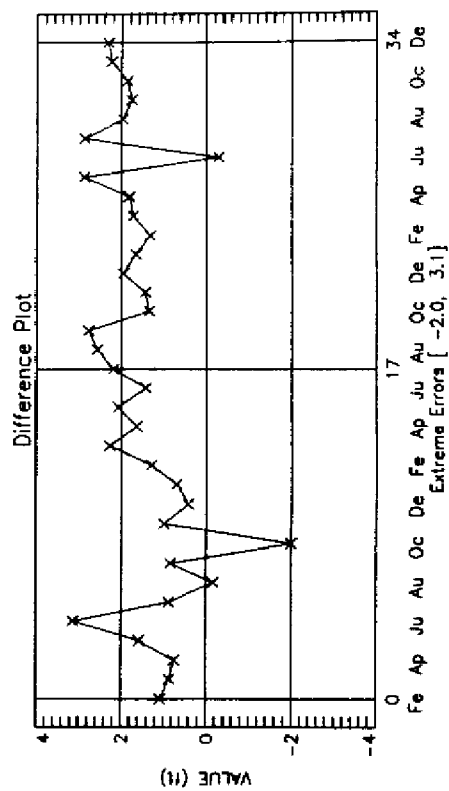
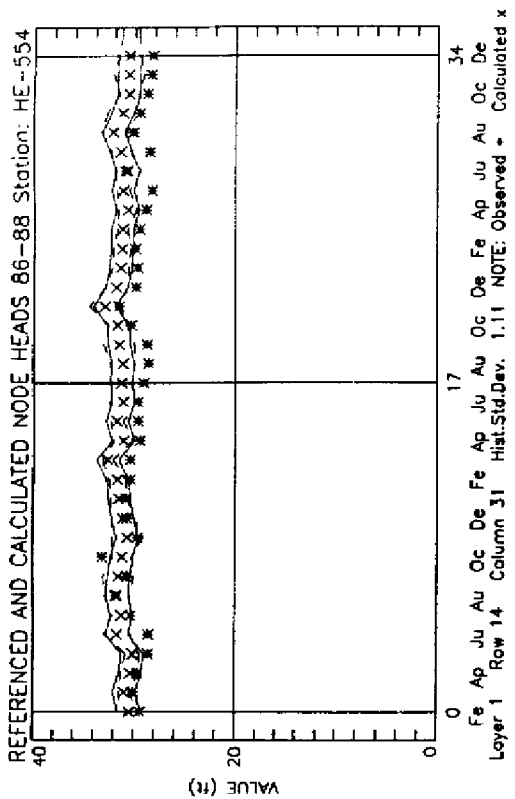
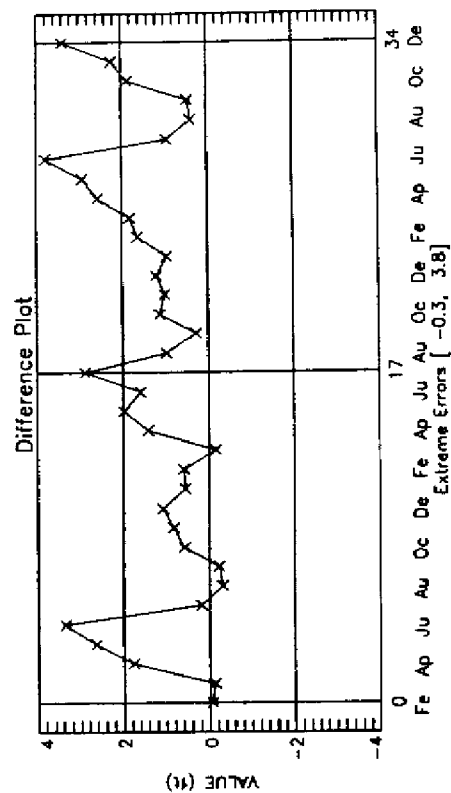
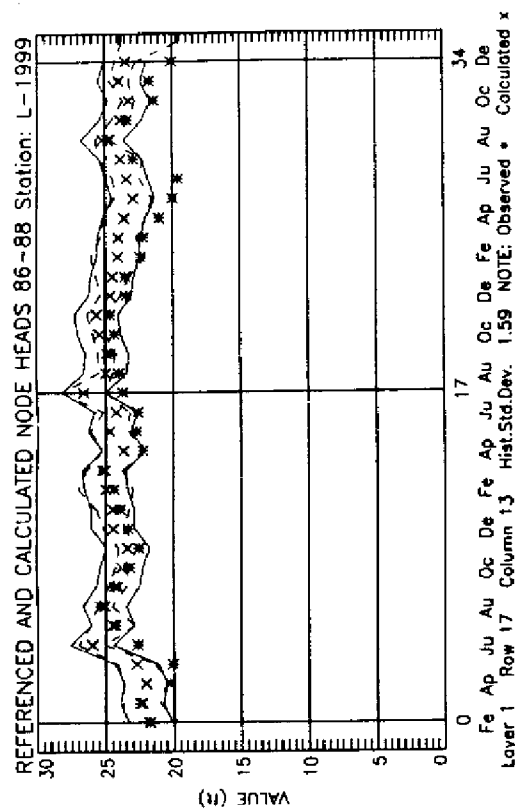
INTRODUCTION

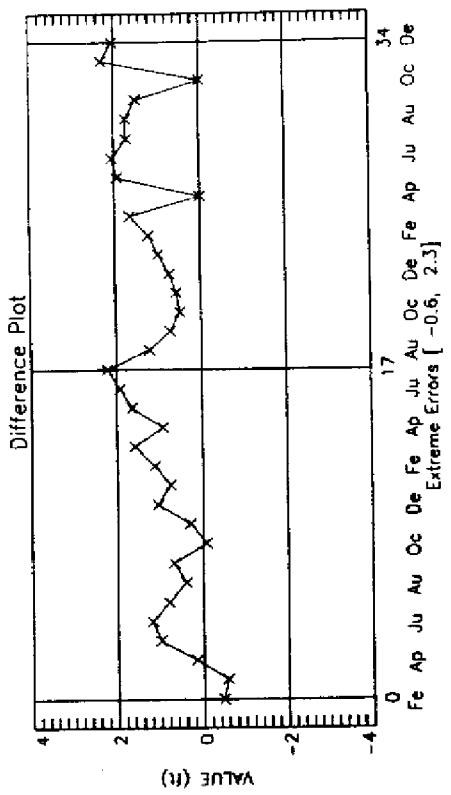
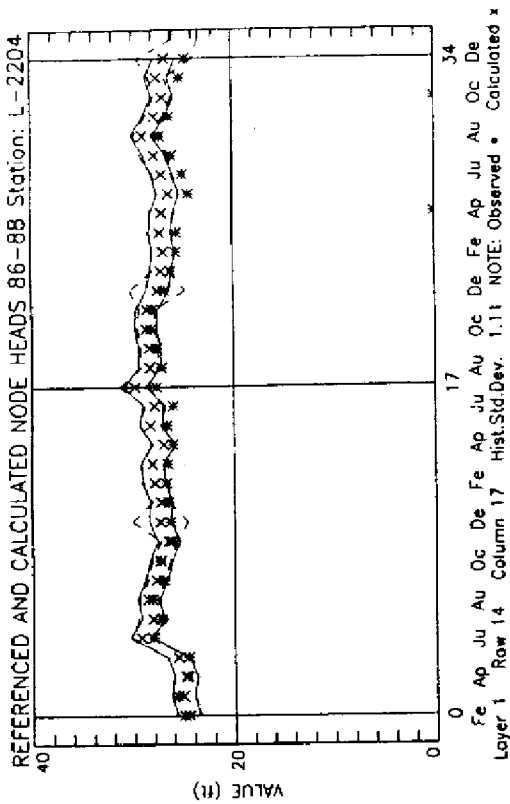
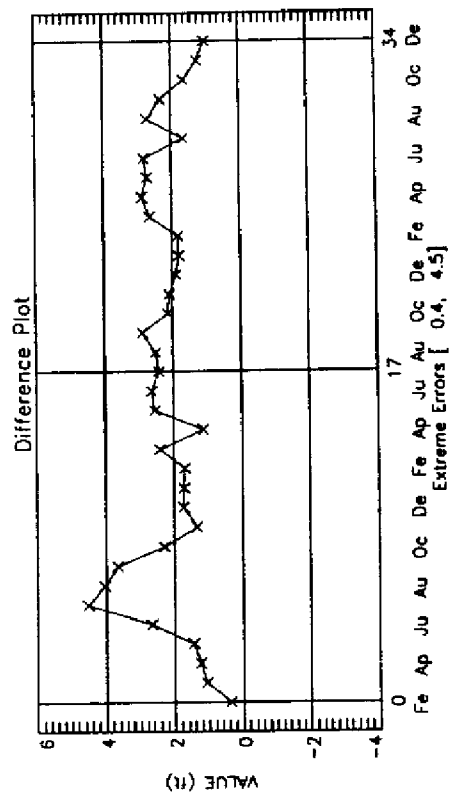
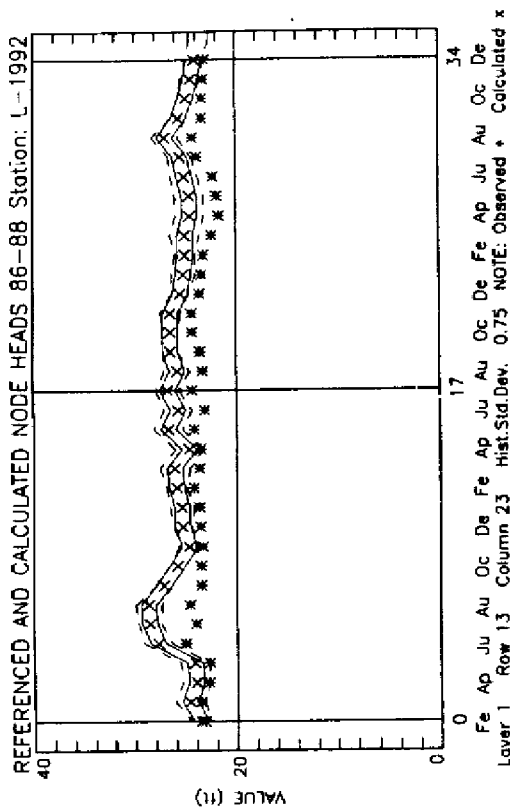
Appendix H contains comparative hydrographs for each monitor well within the model area for layers 1 through 4, respectively. The top graphs show a plot of monthly observed heads (*) versus simulated heads (+) for the 35 month transient calibration period. The solid line shown on the top graphs indicate the calculated historic standard deviation and the dashed line depicts the monthly historical standard deviation. The corresponding lower graphs show the net difference between the observed and model simulated heads for each month (stress period) over the 35 month calibration period (February, 1986 to December, 1988).

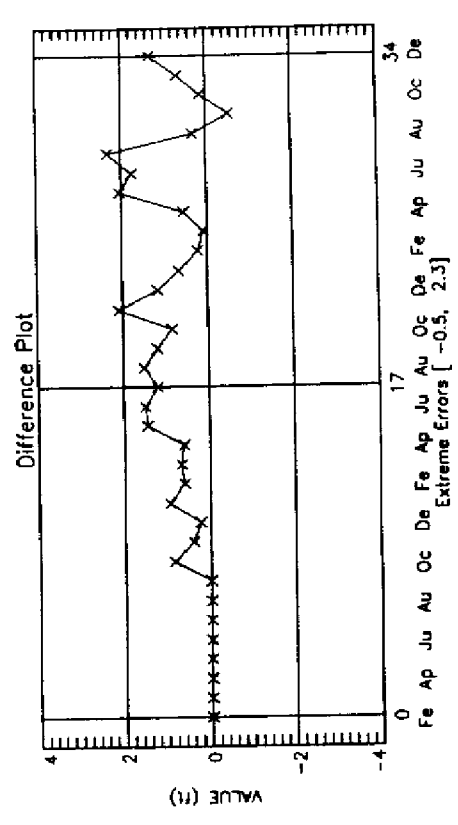
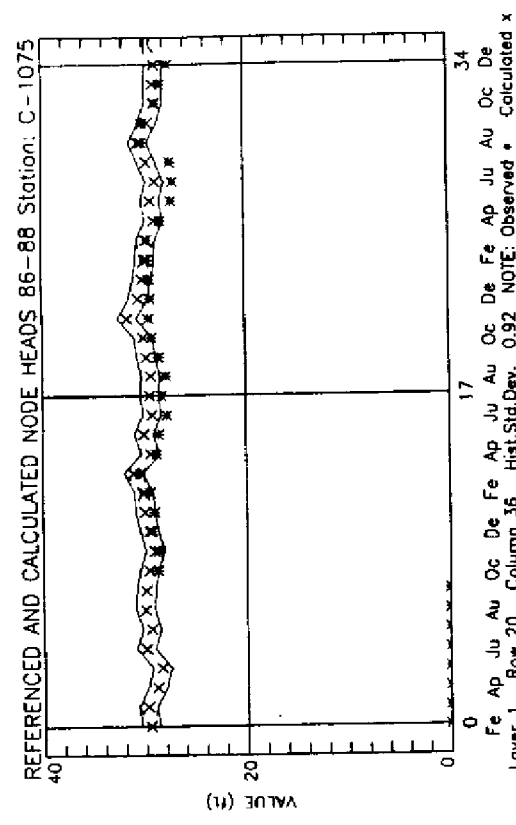
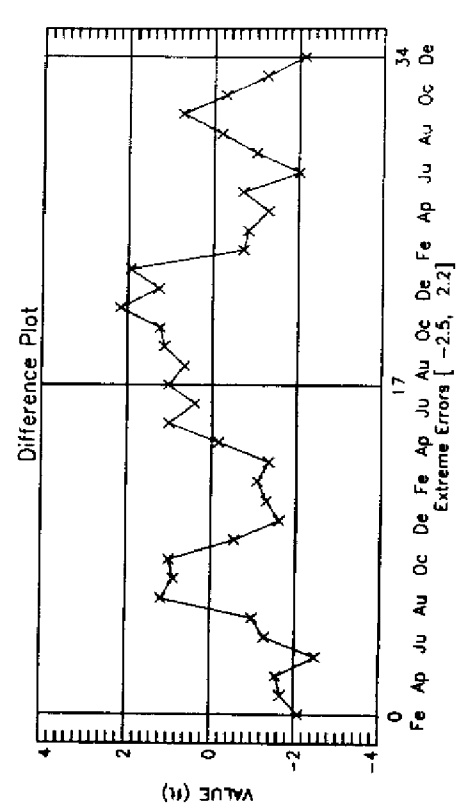
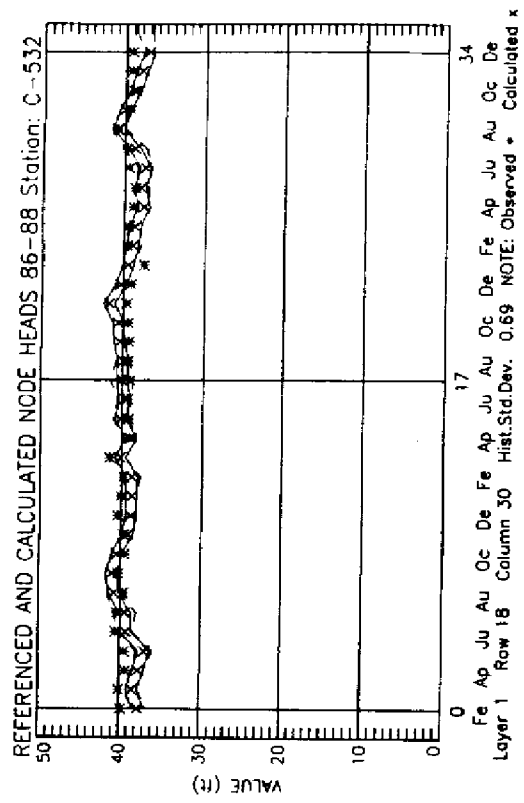
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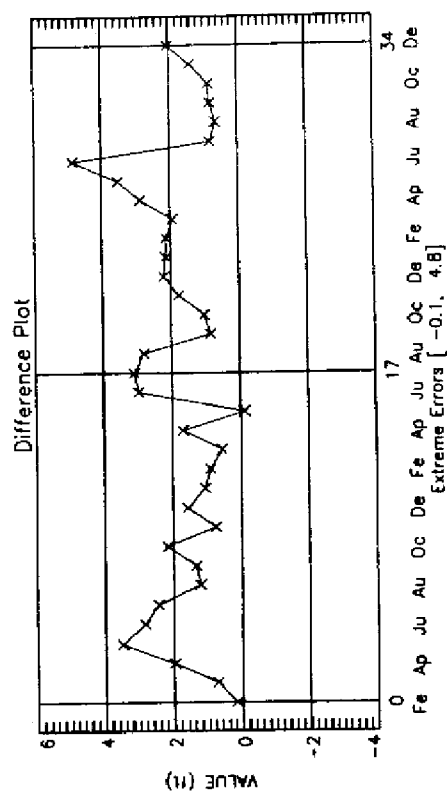
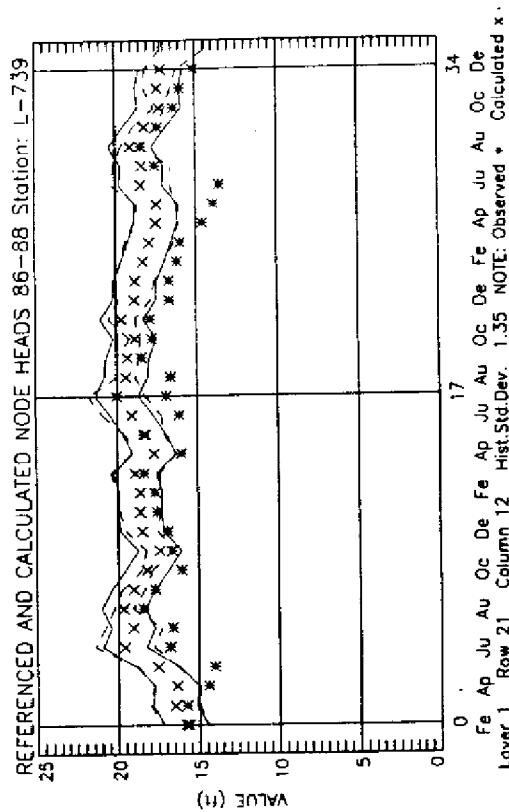
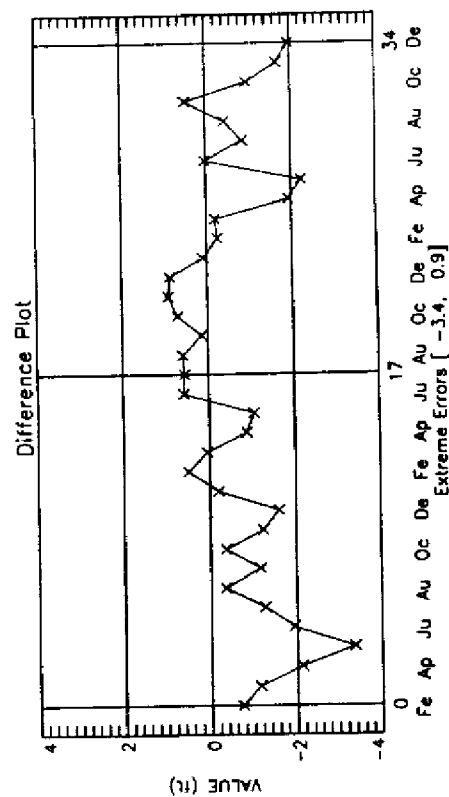
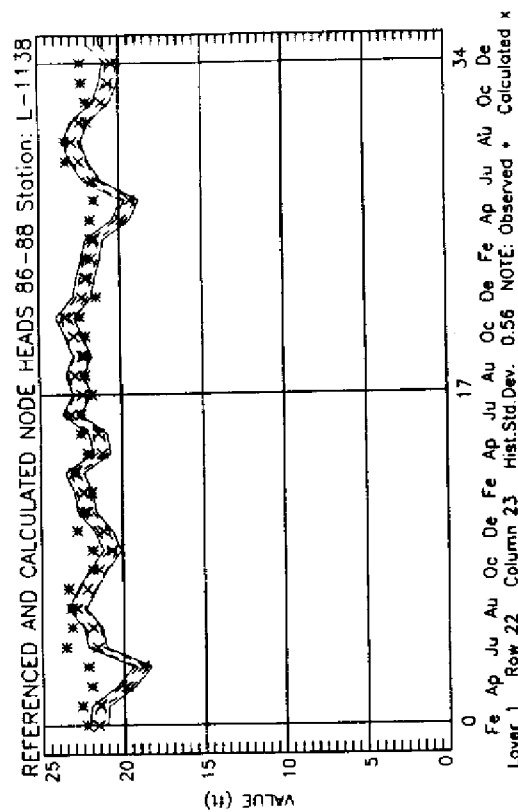
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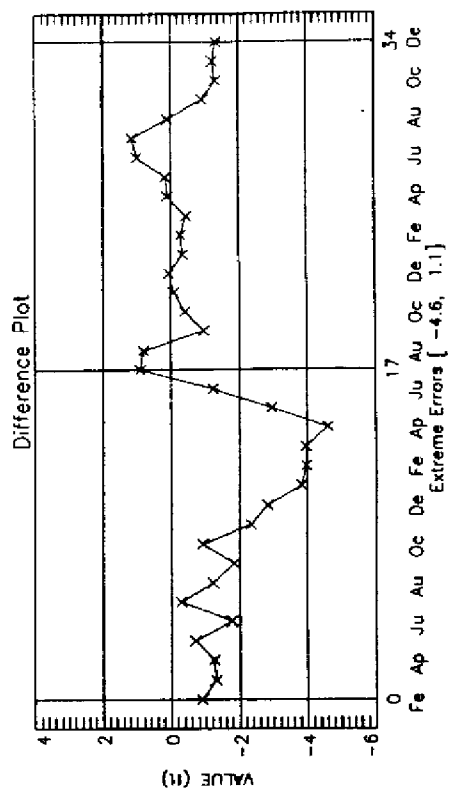
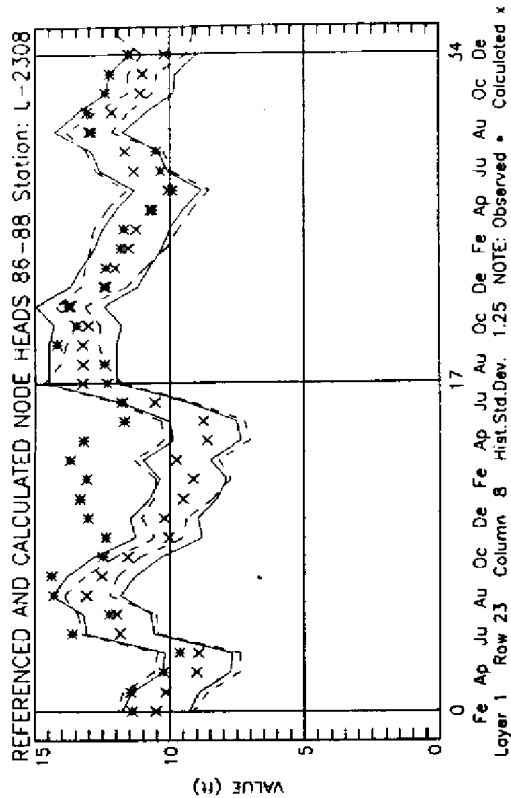
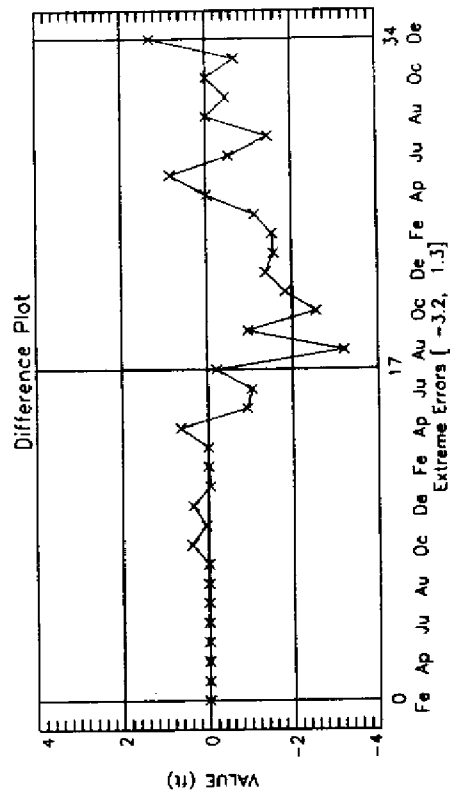
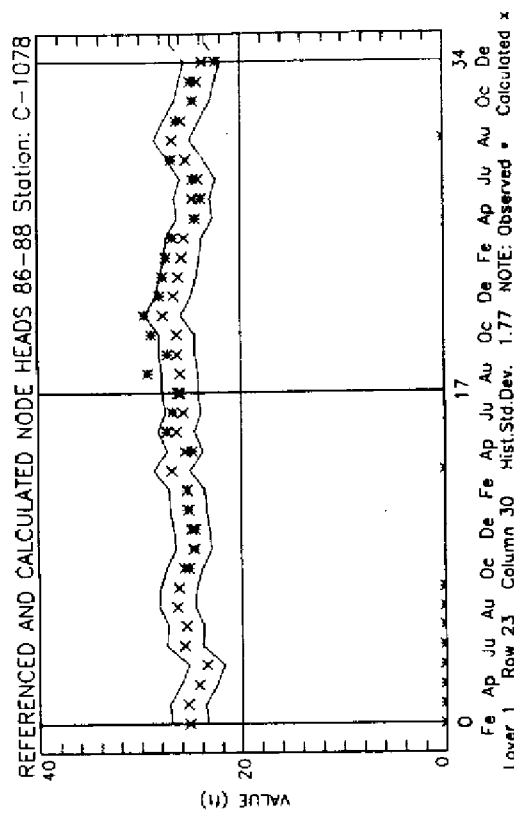


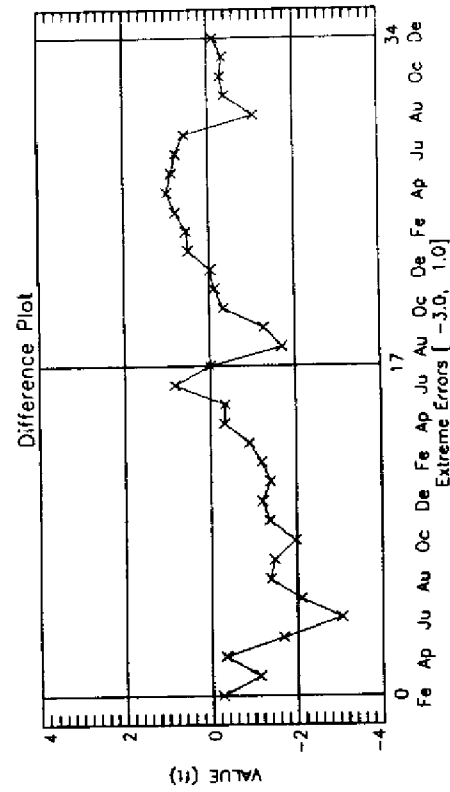
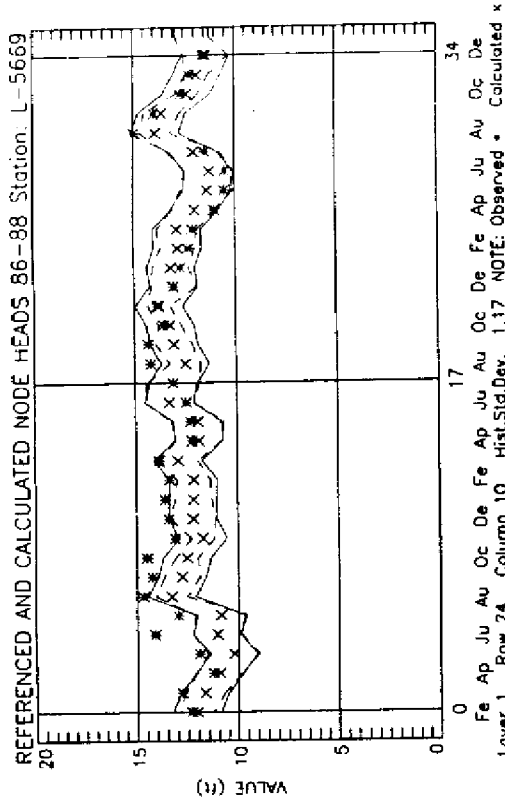
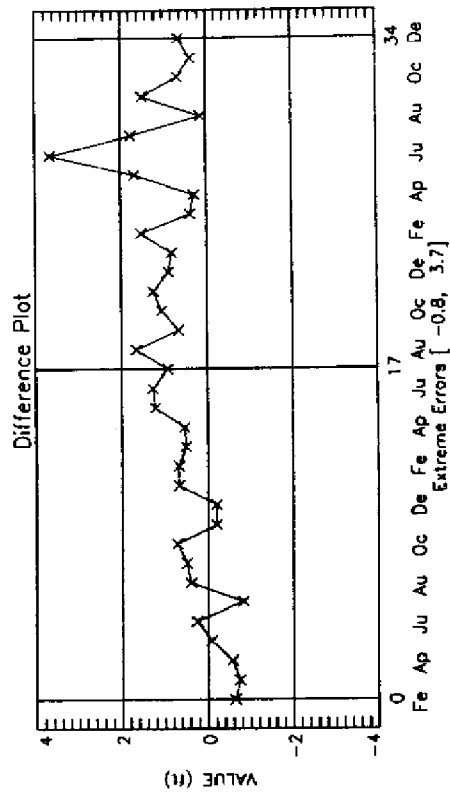
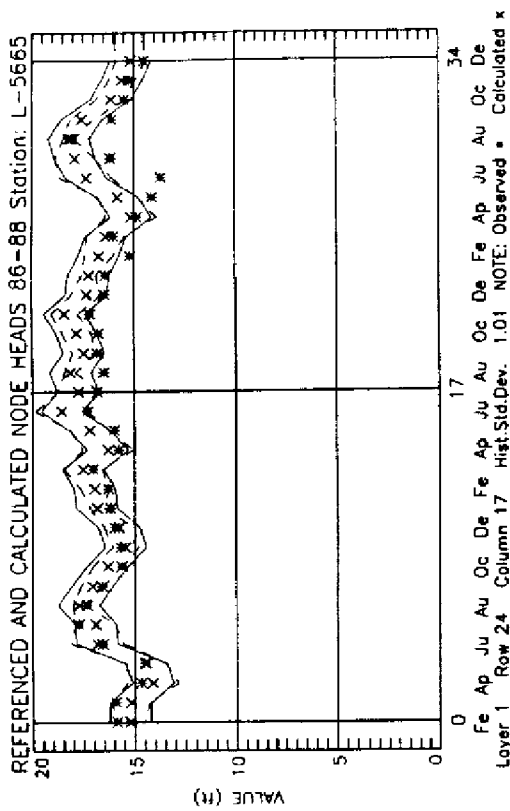


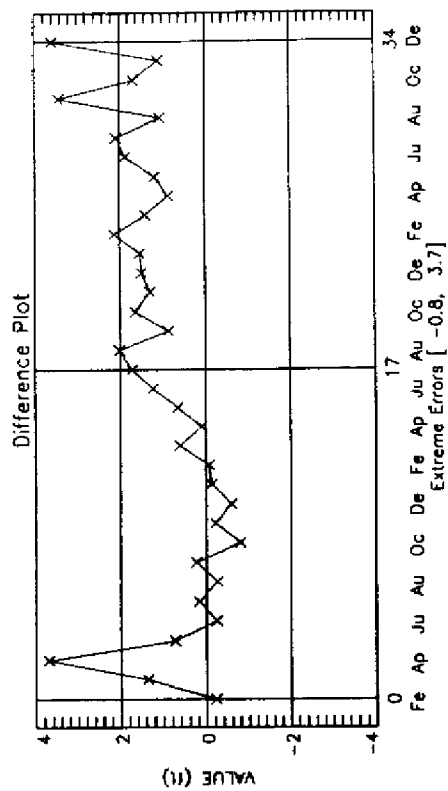
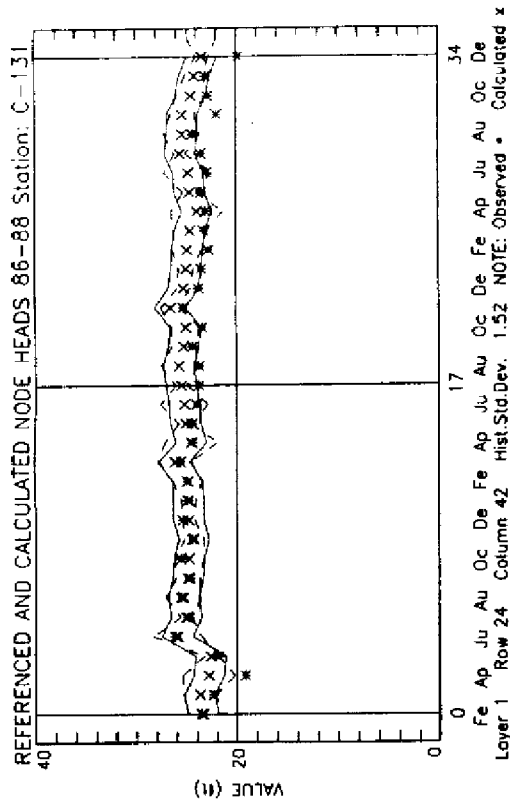
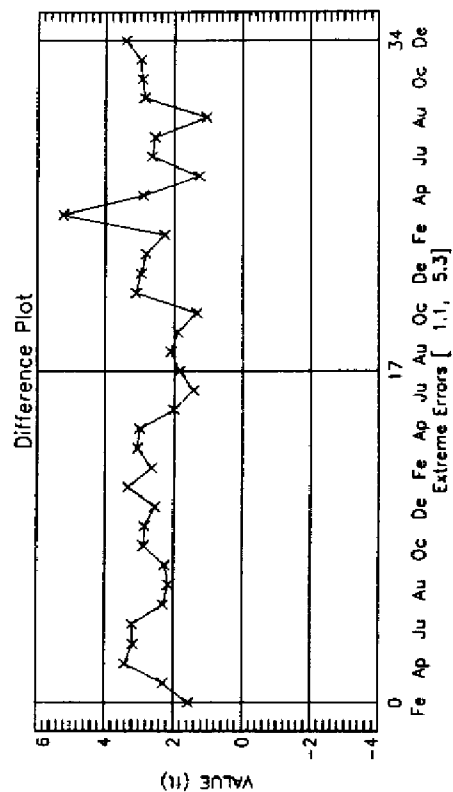
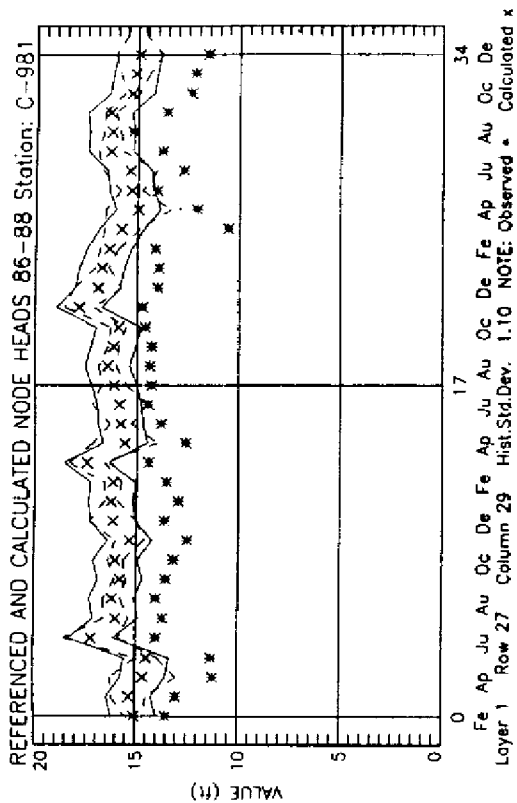


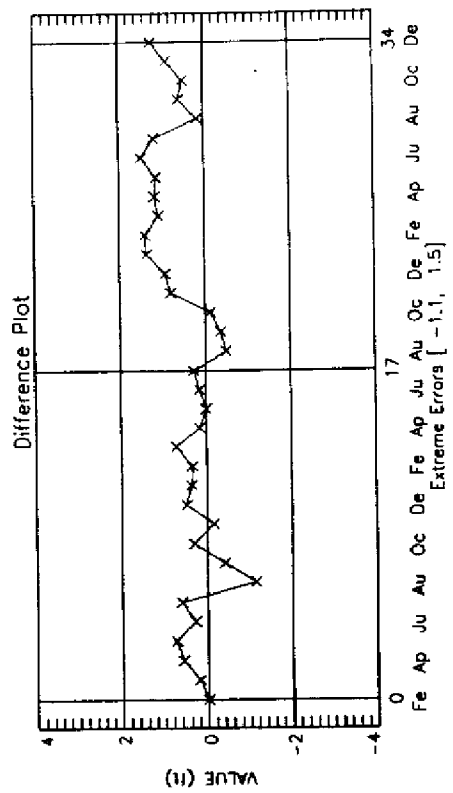
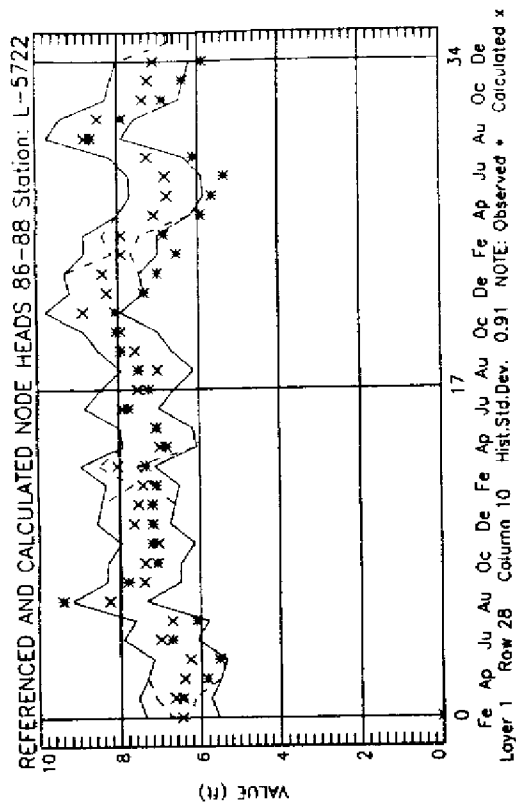
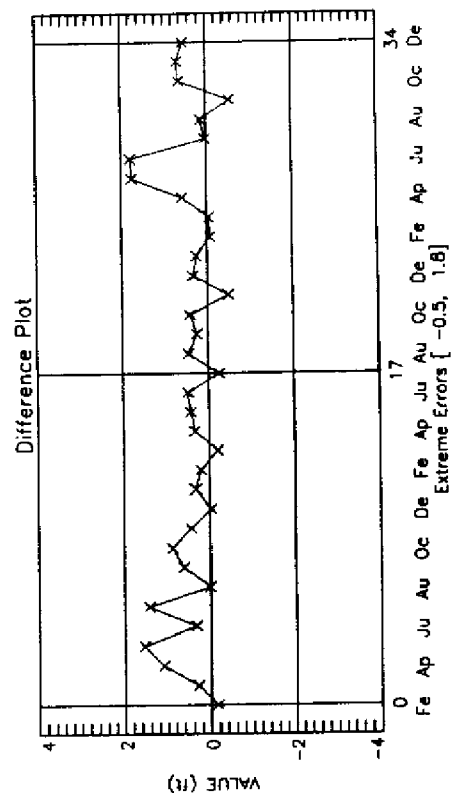
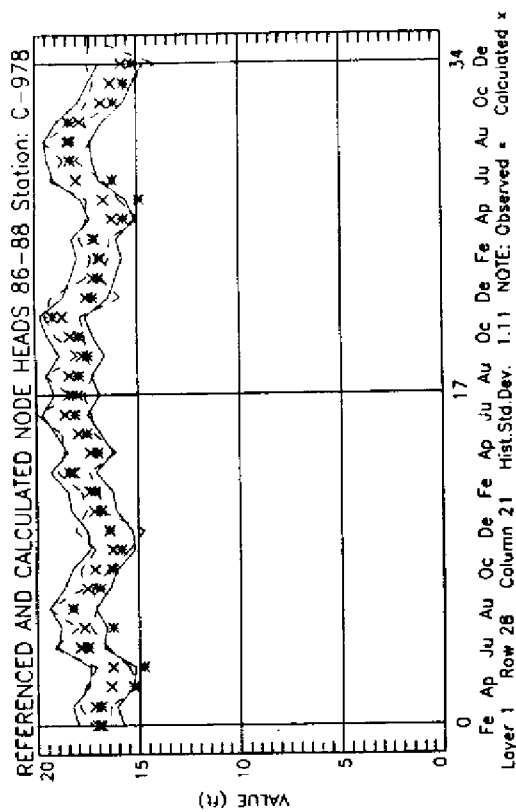


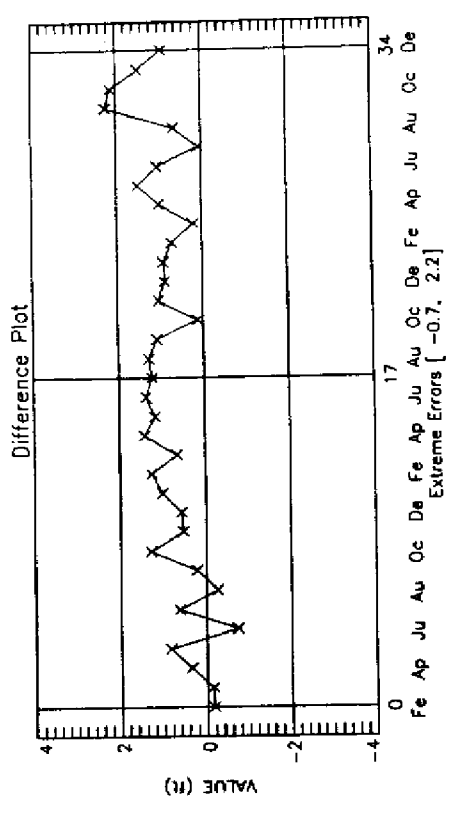
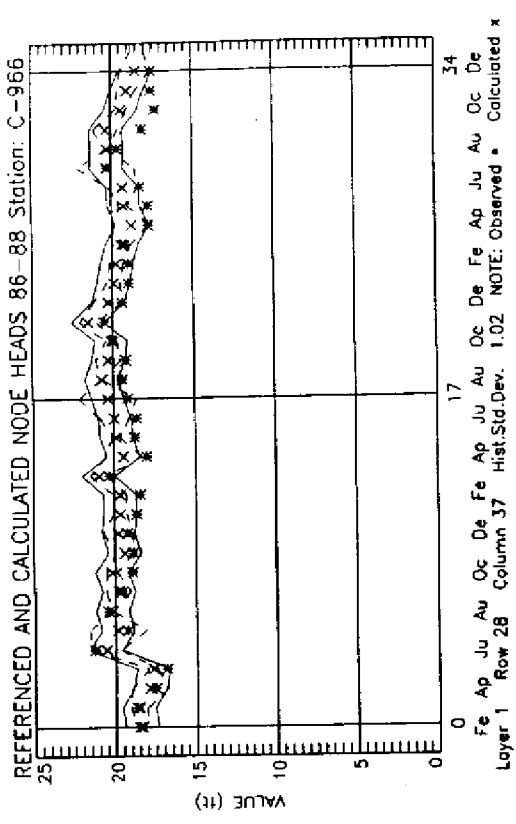
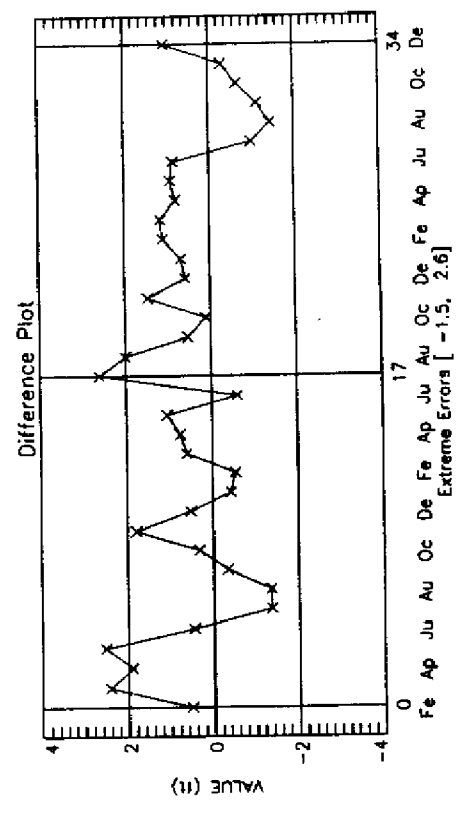
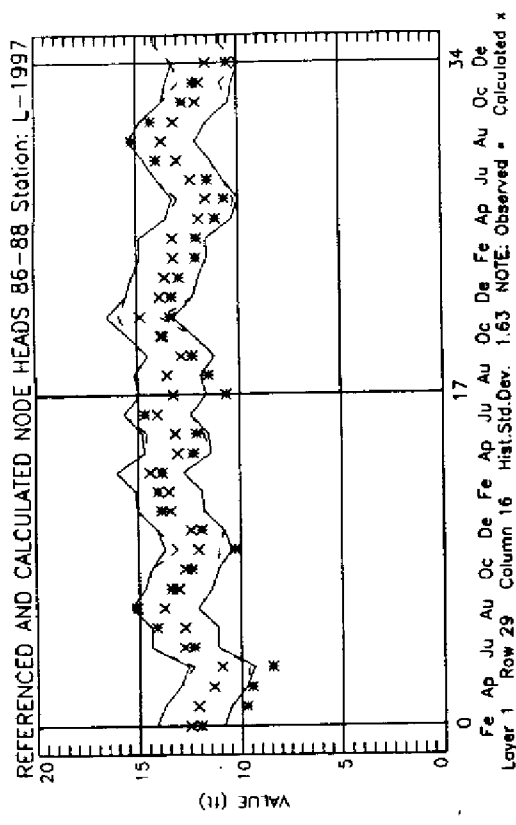


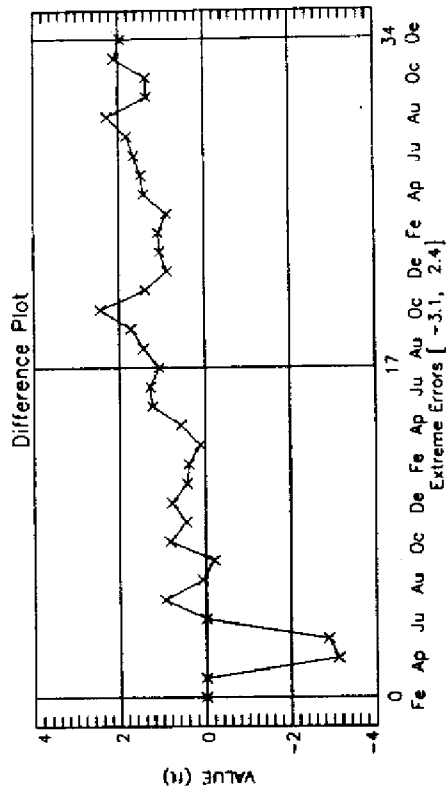
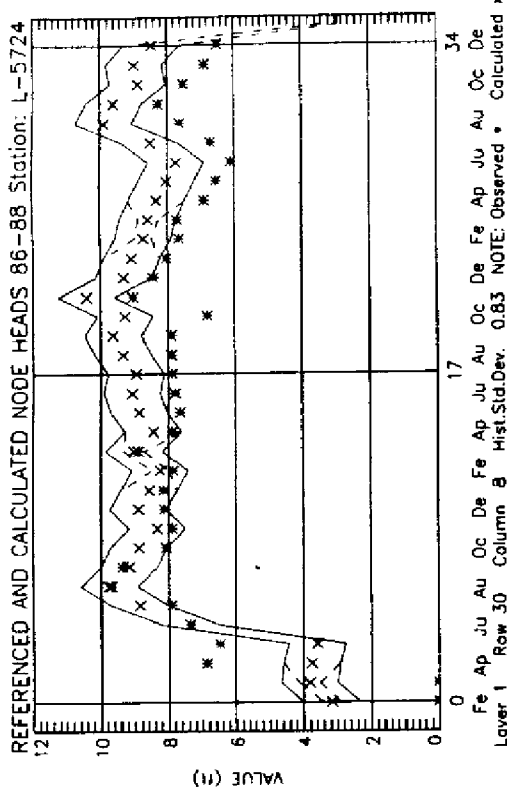
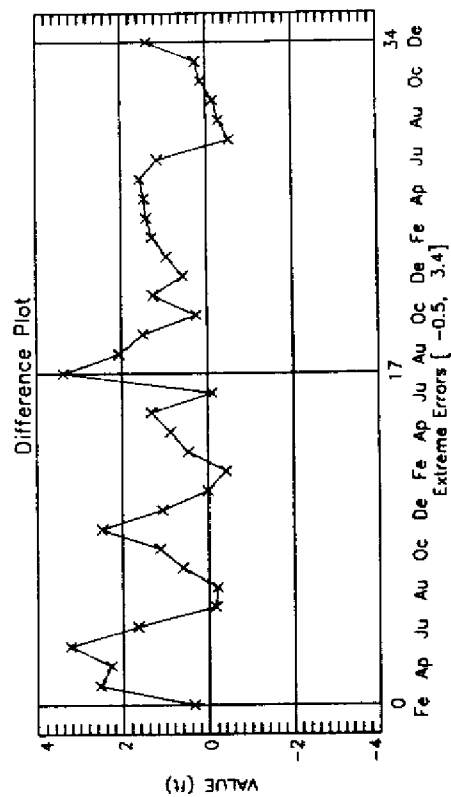
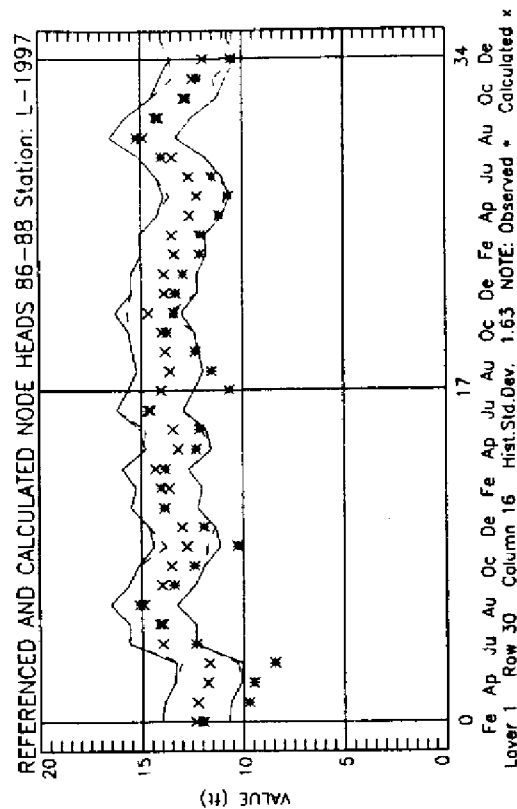


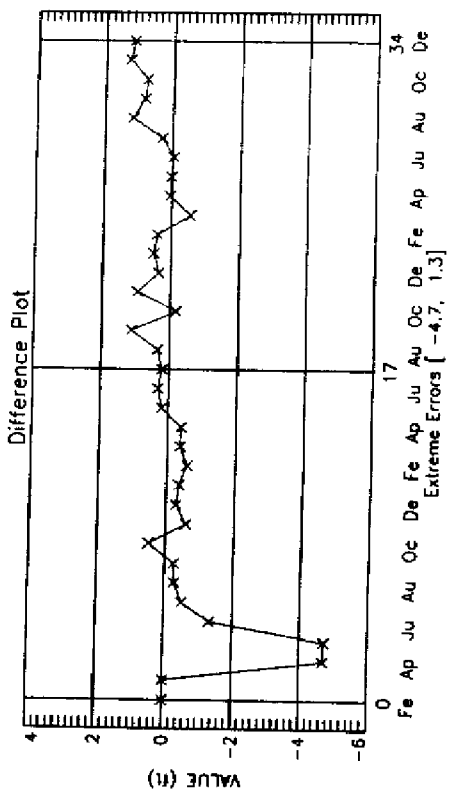
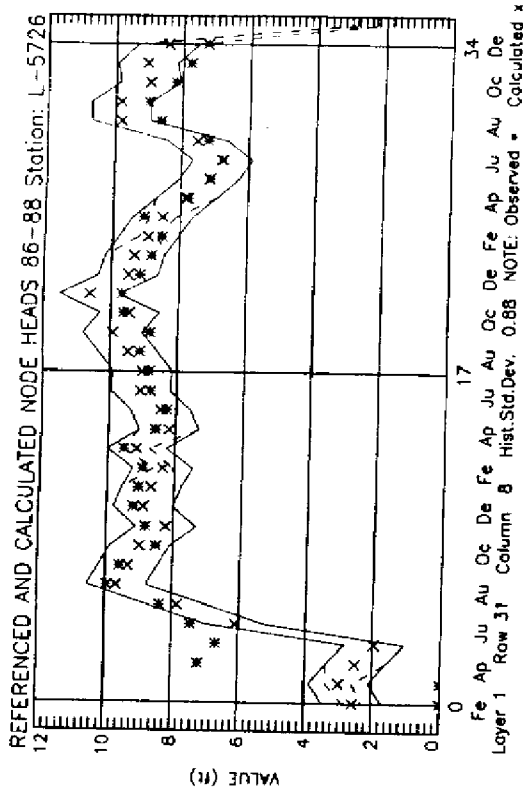
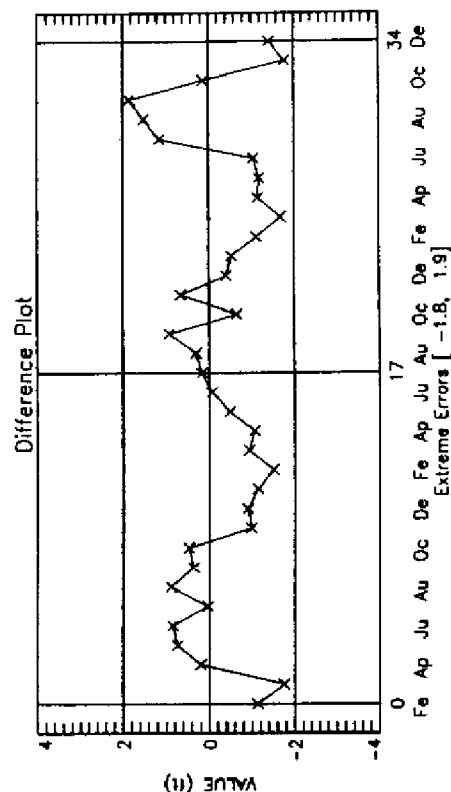
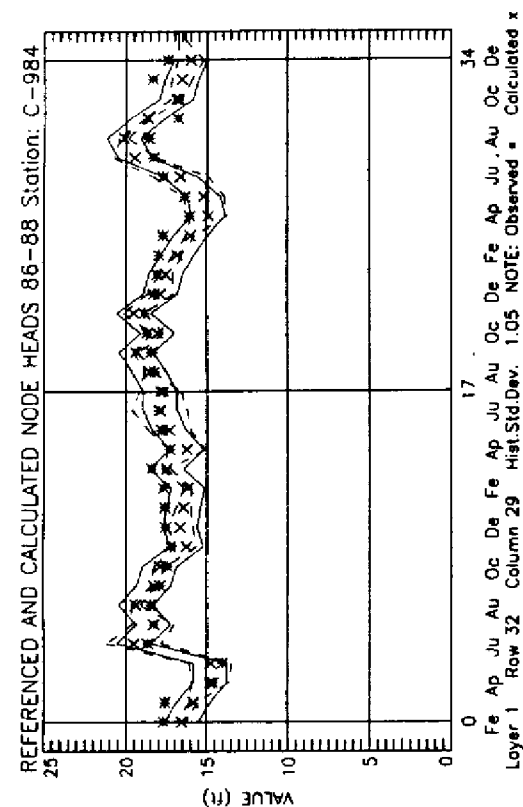




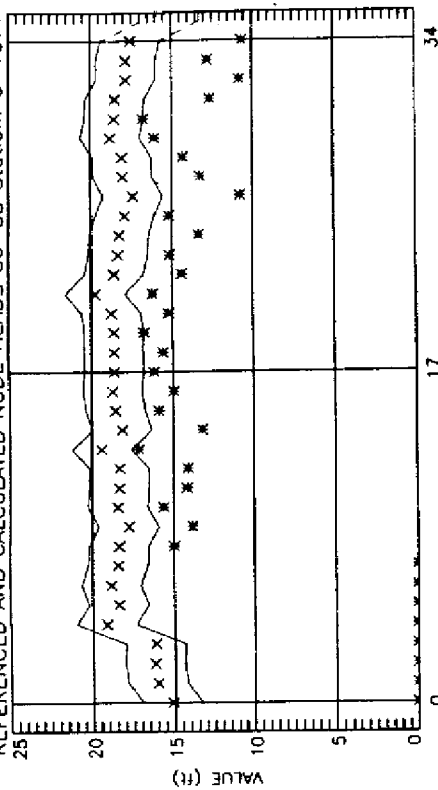




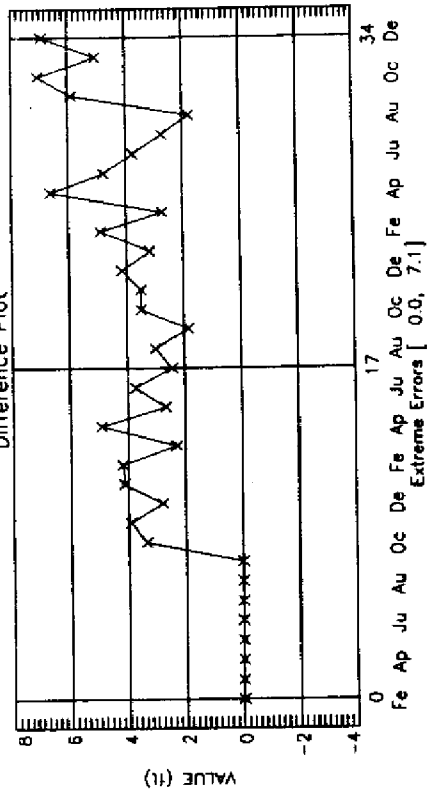




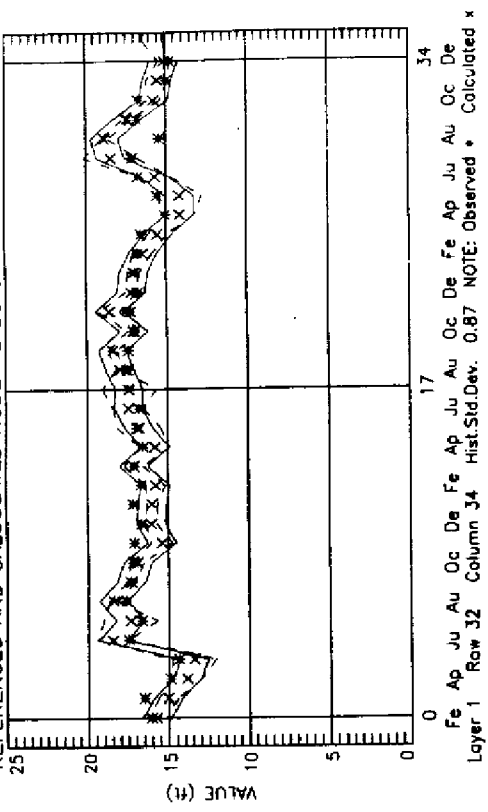
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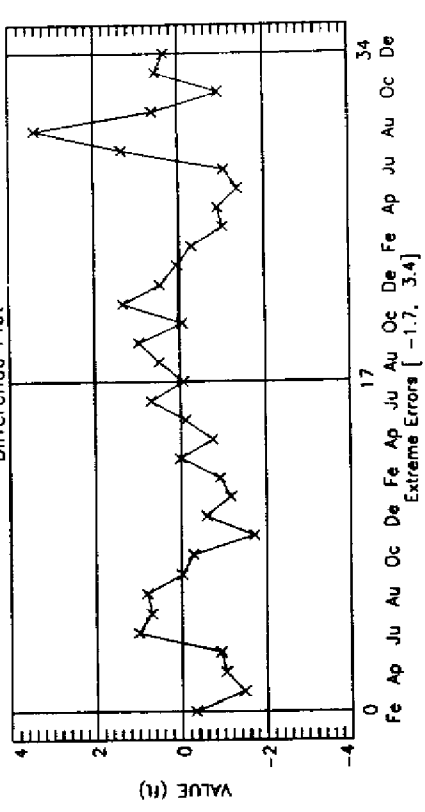
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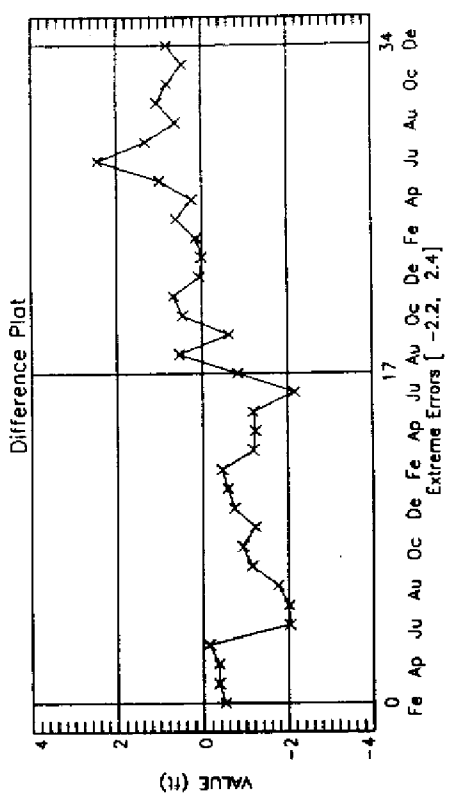
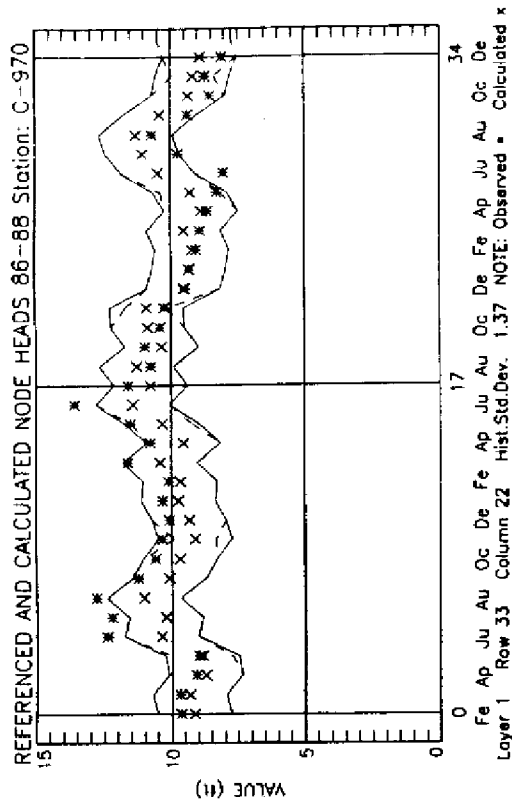
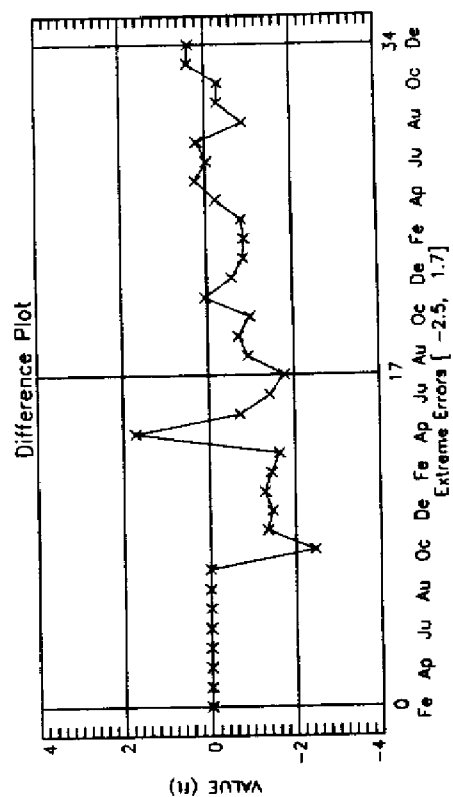
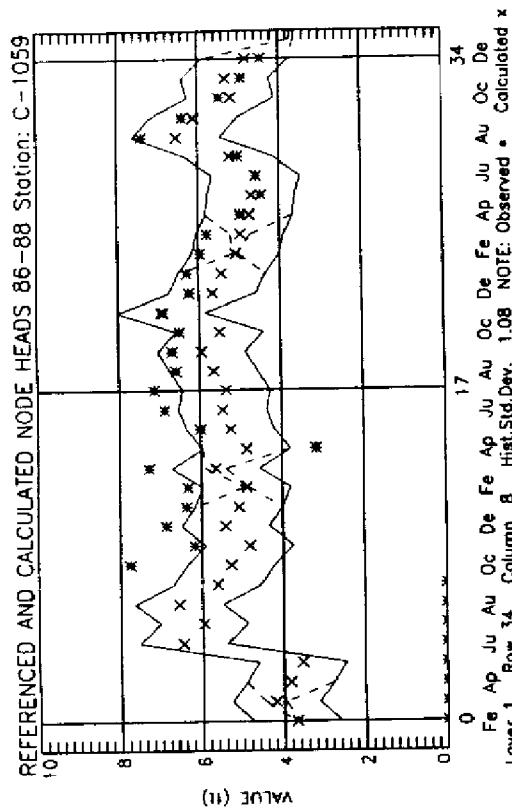


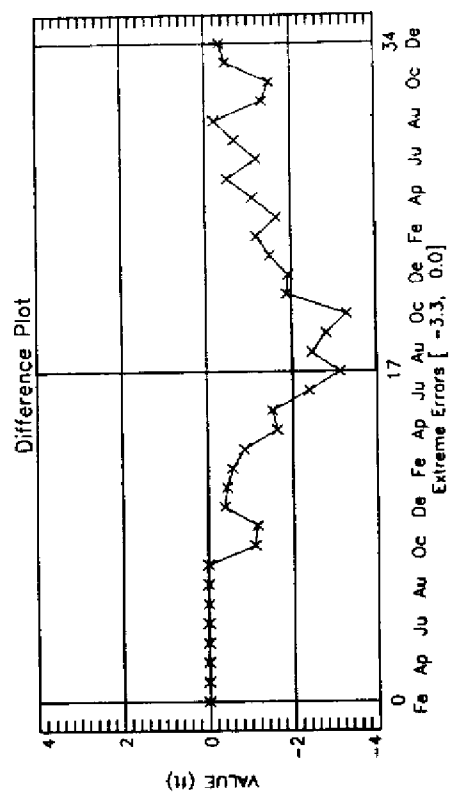
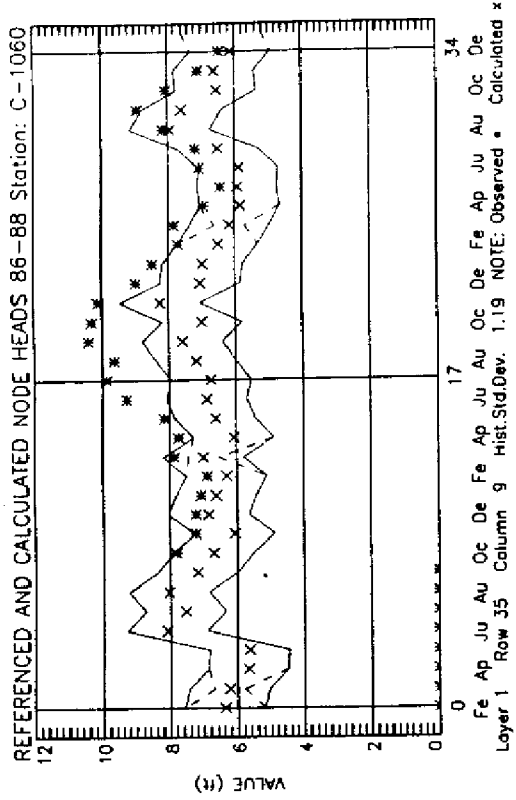
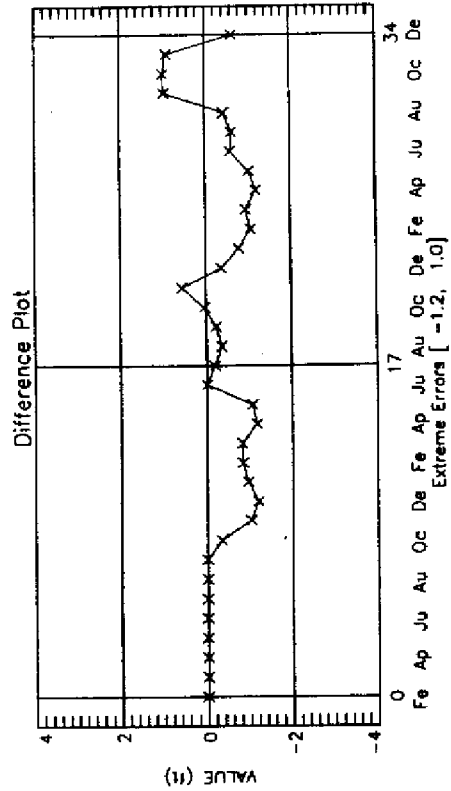
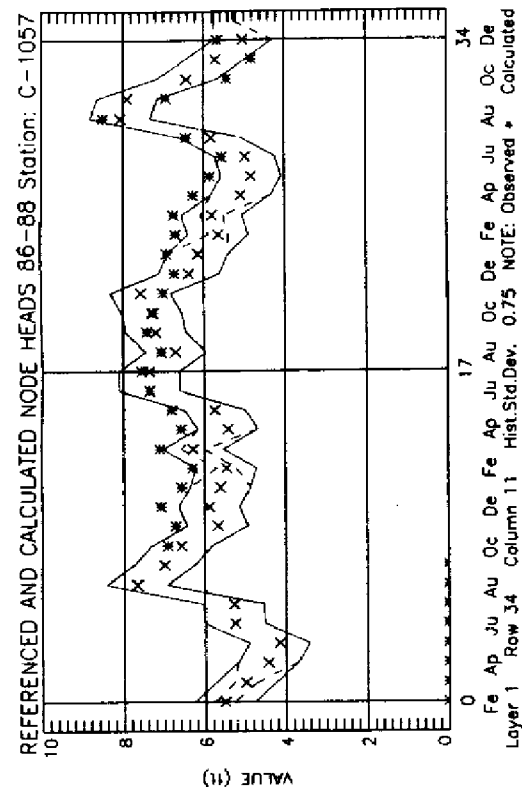
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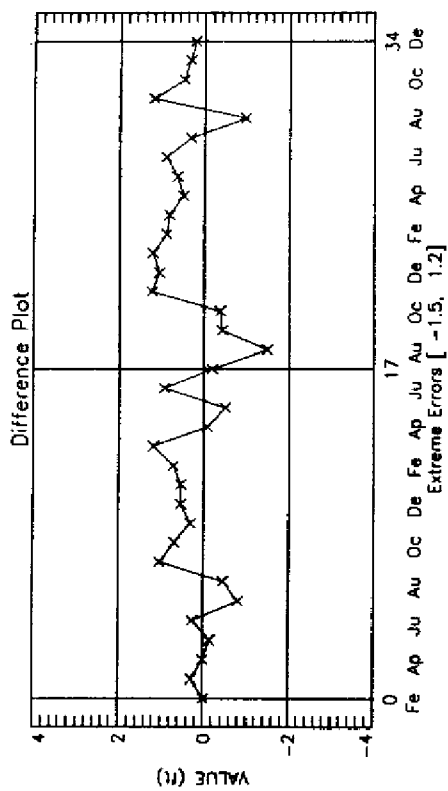
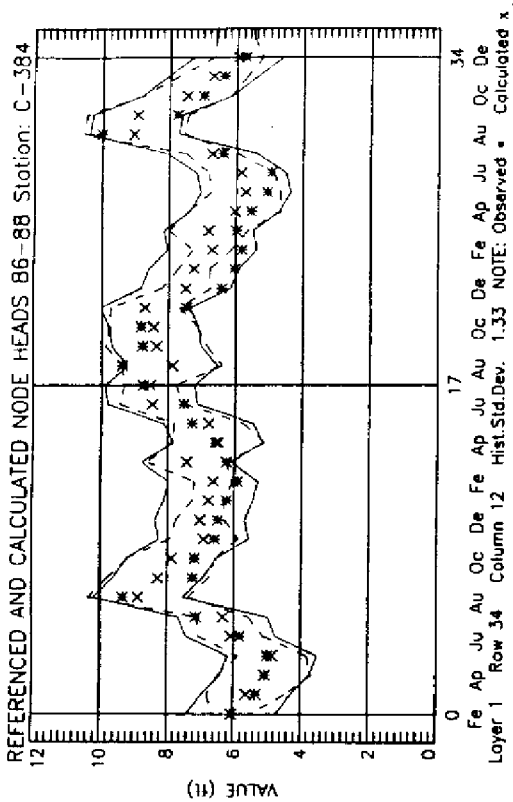
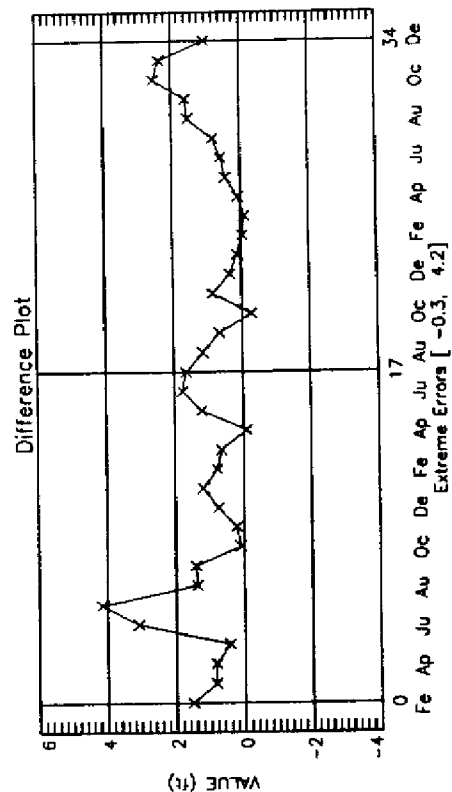
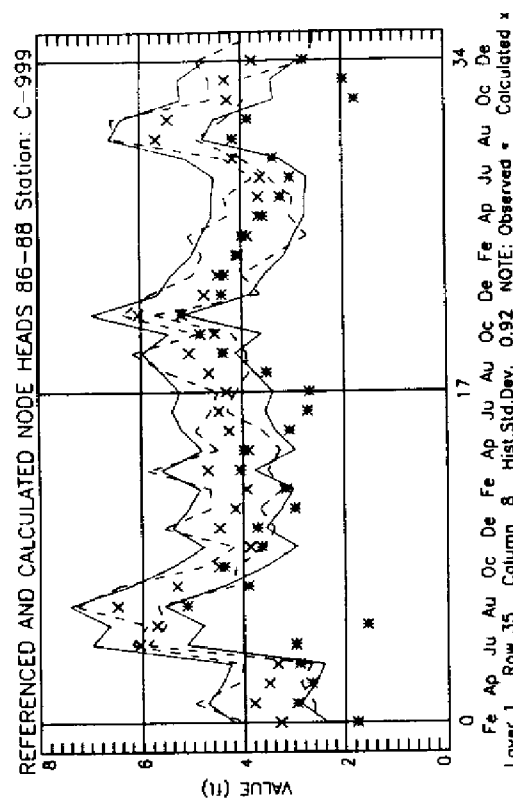


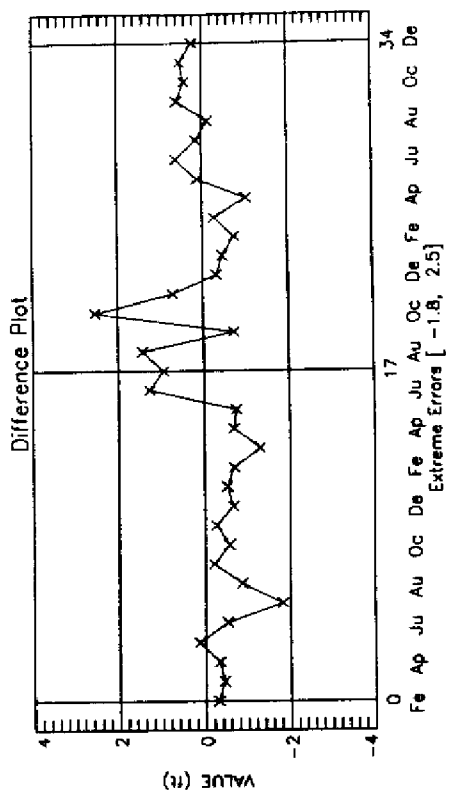
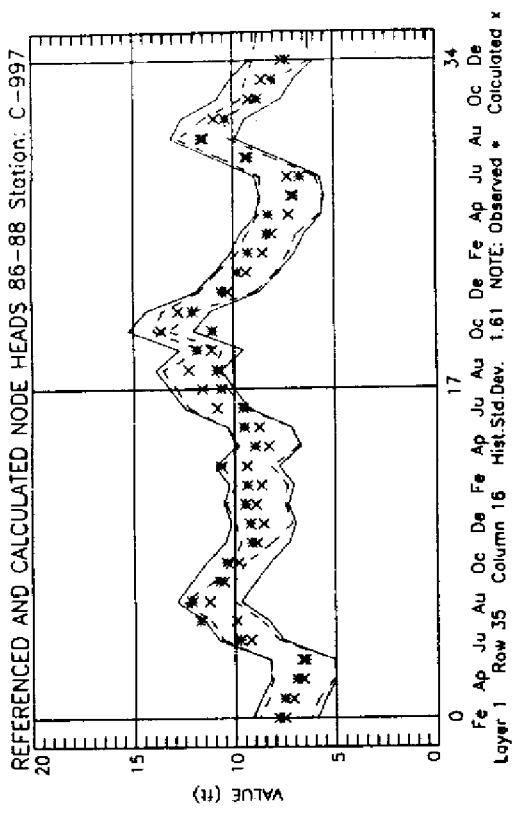
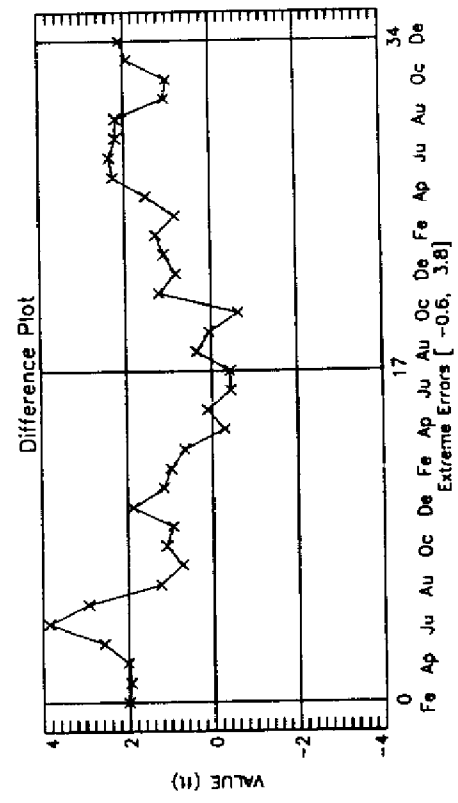
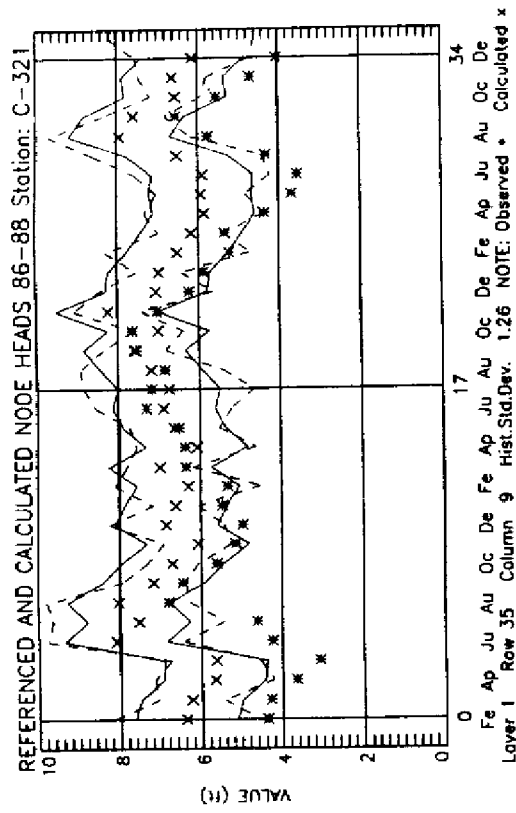
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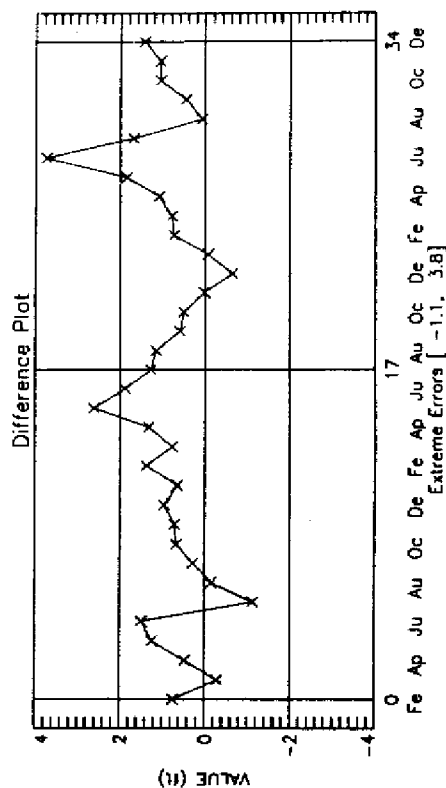
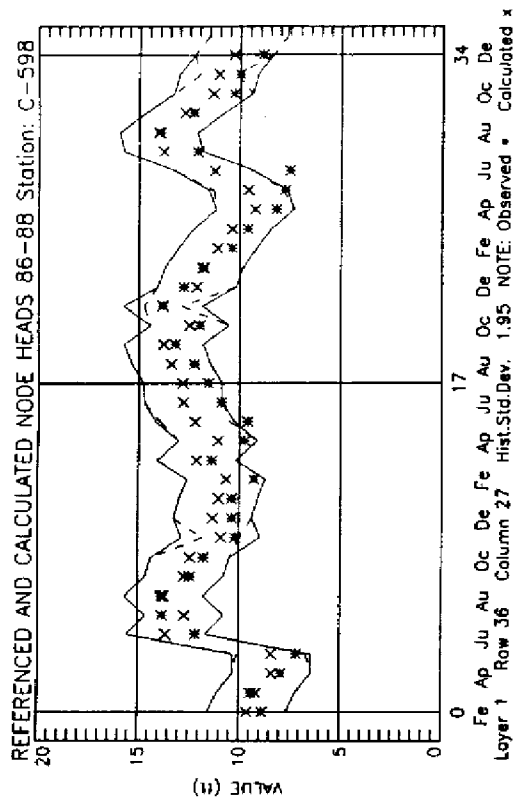
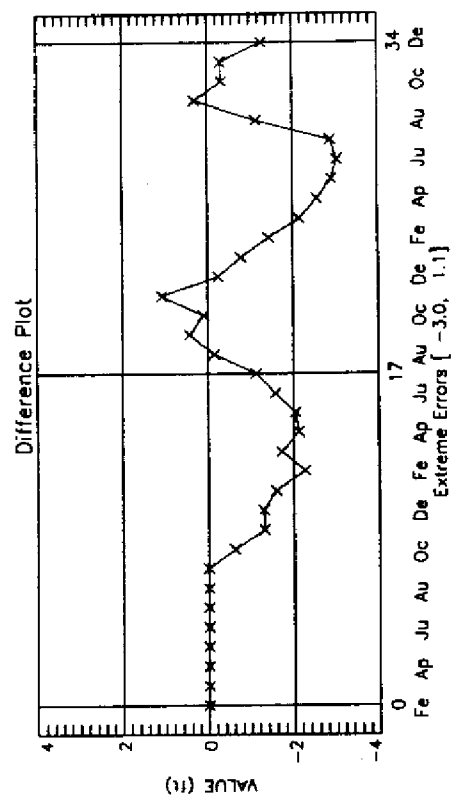
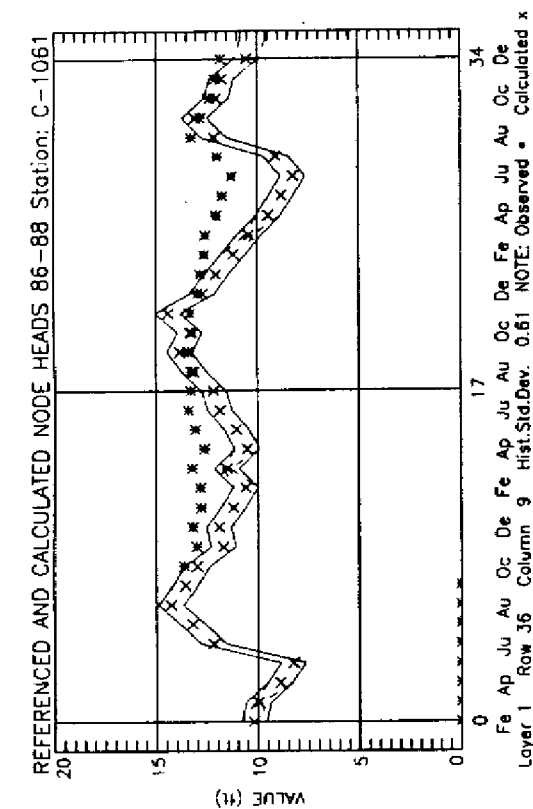


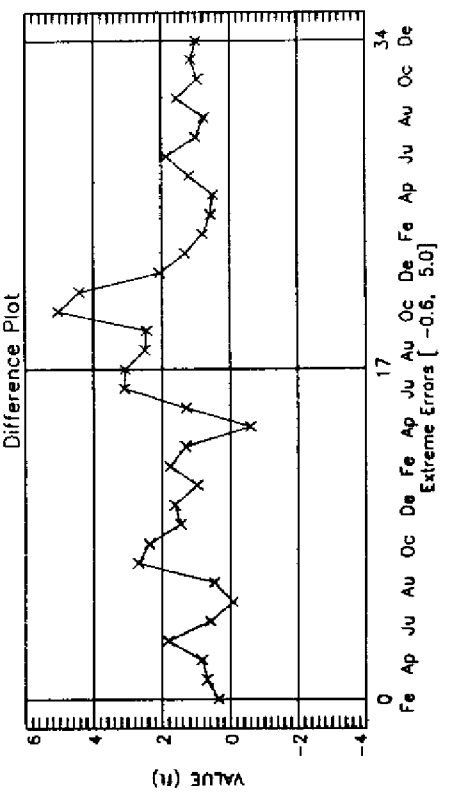
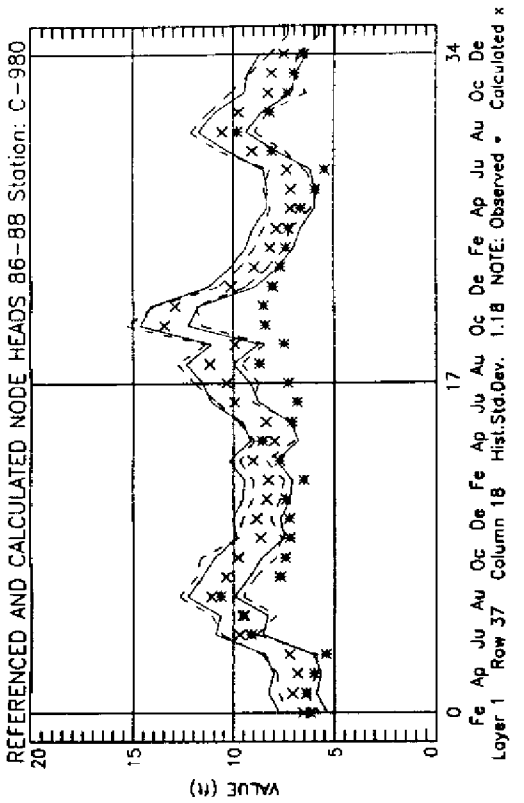
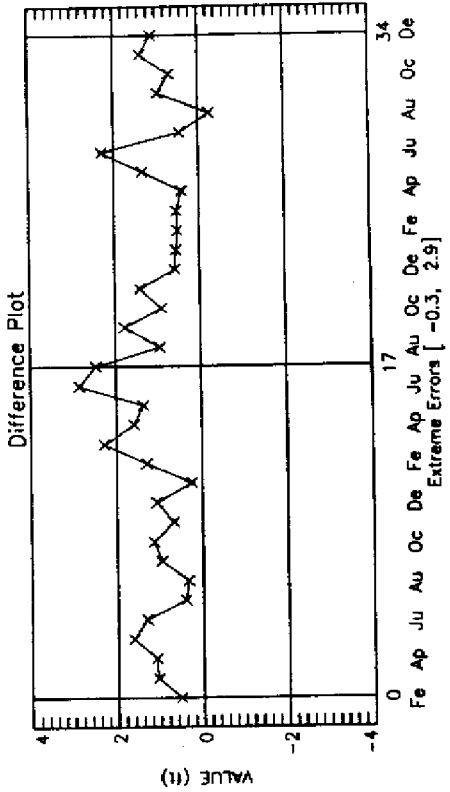
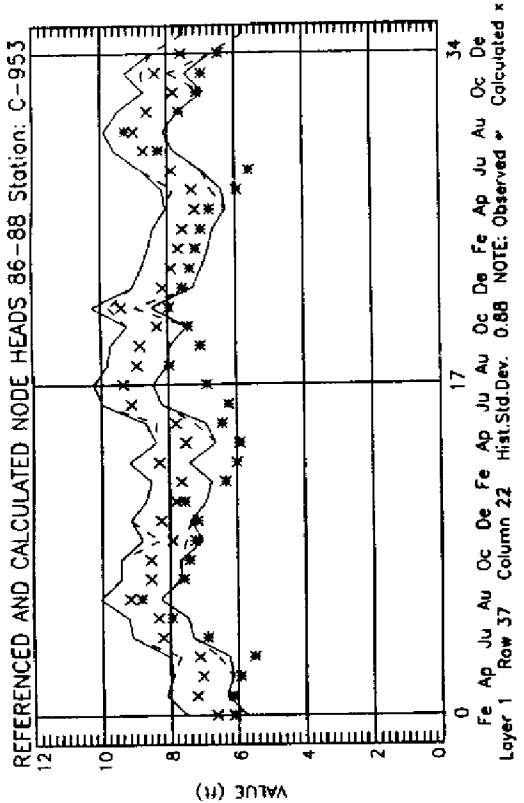


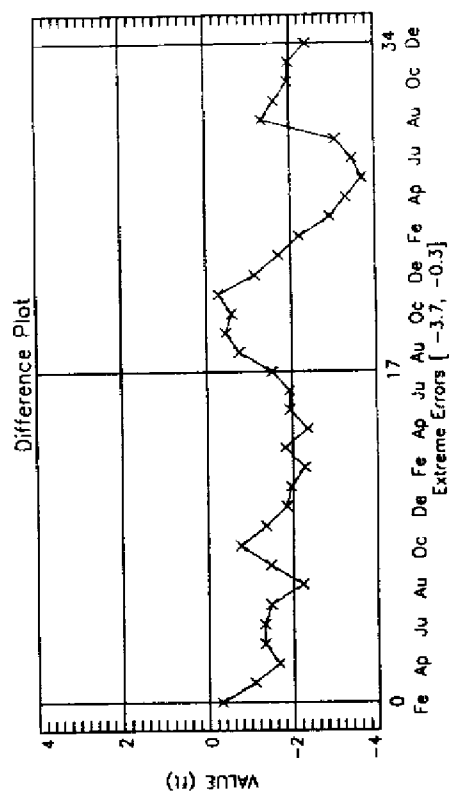
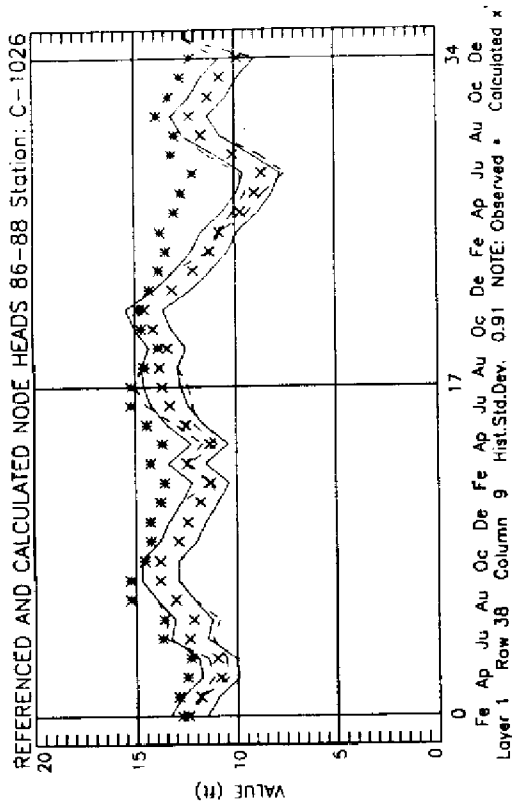
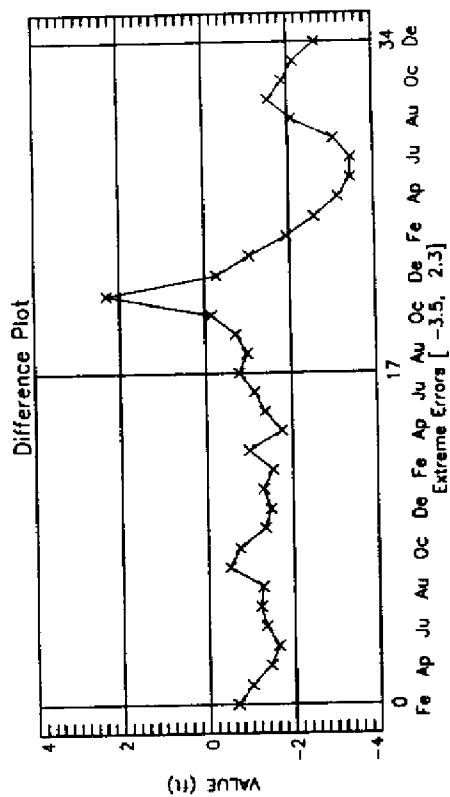
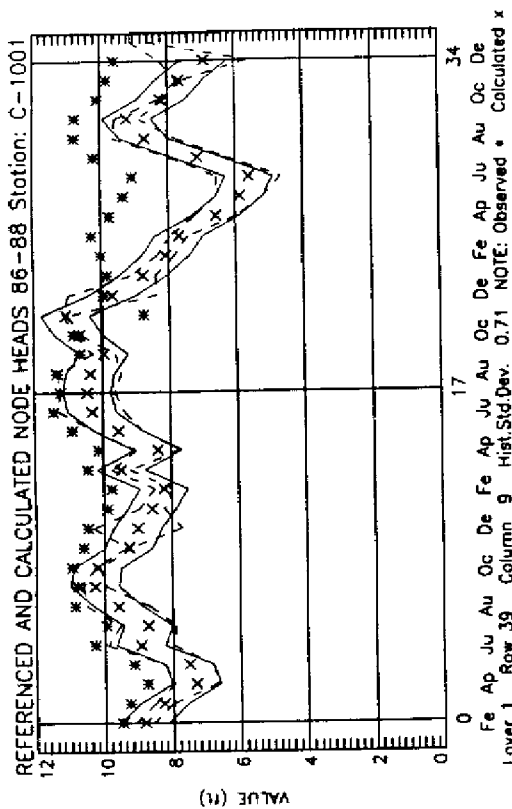


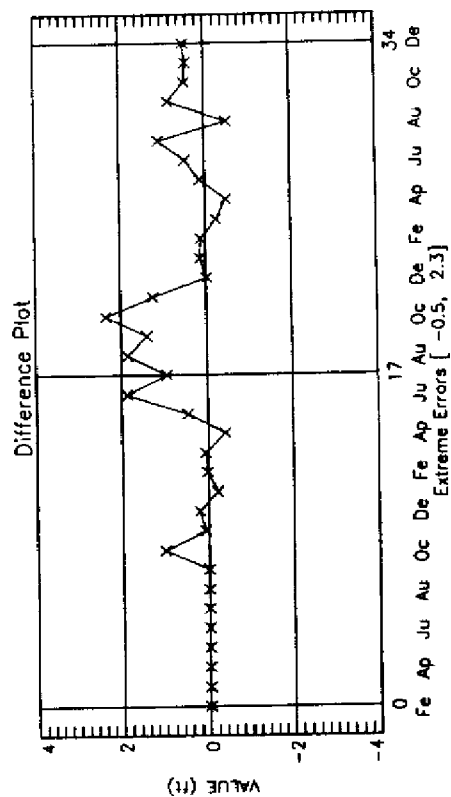
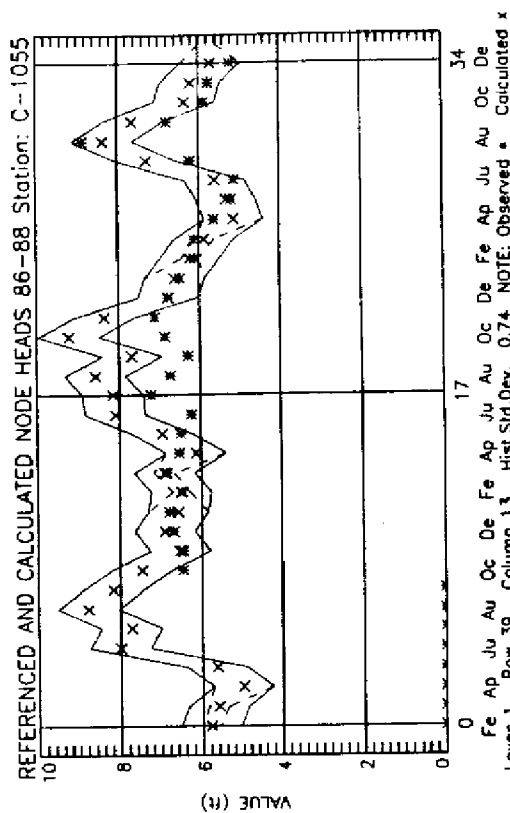
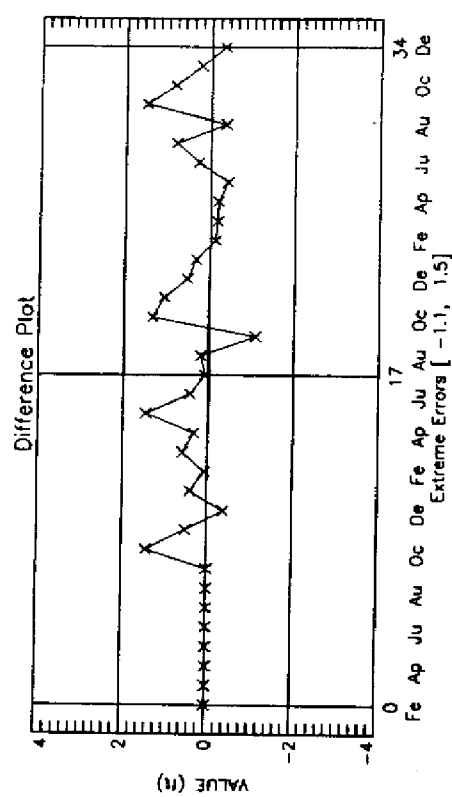
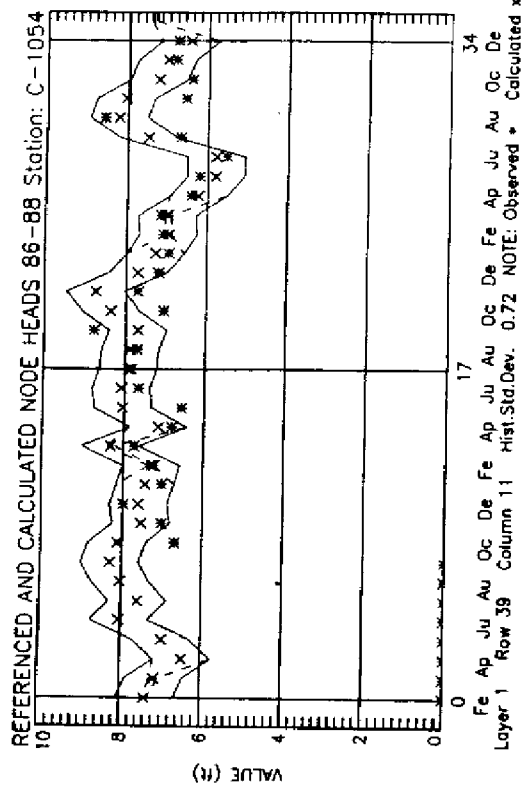


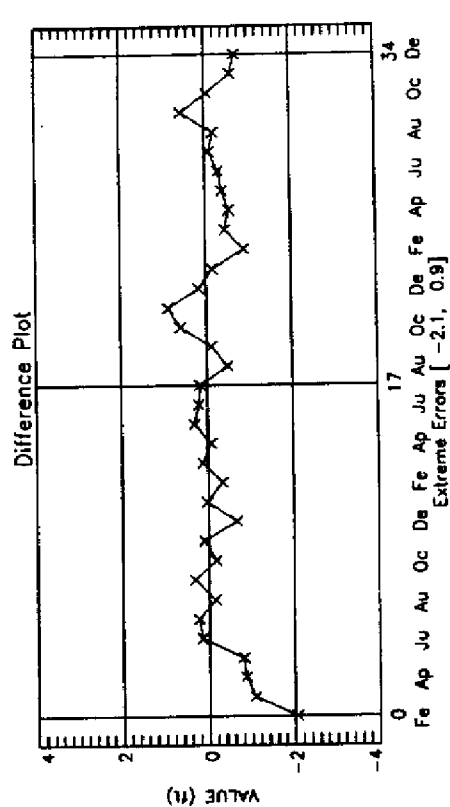
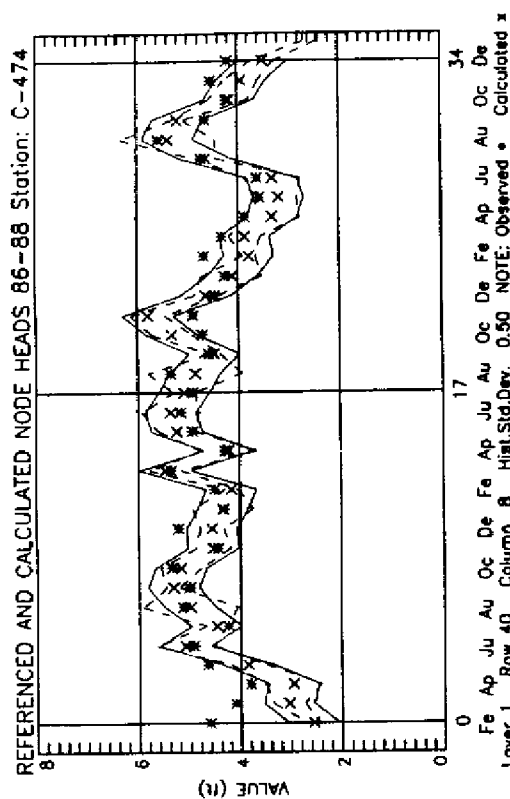
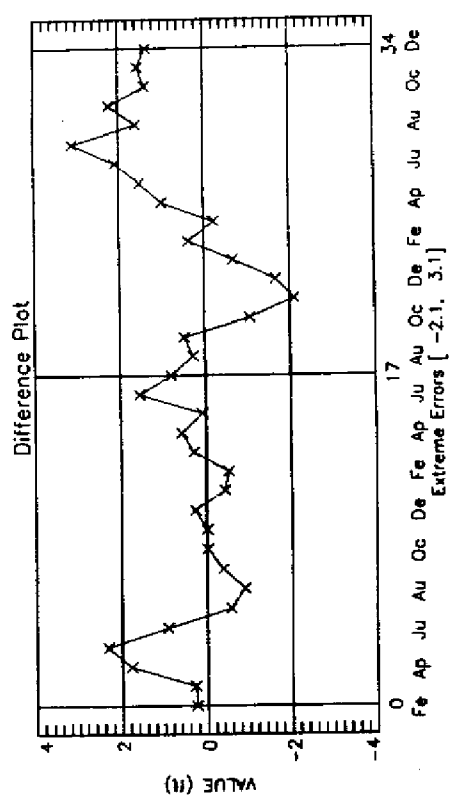
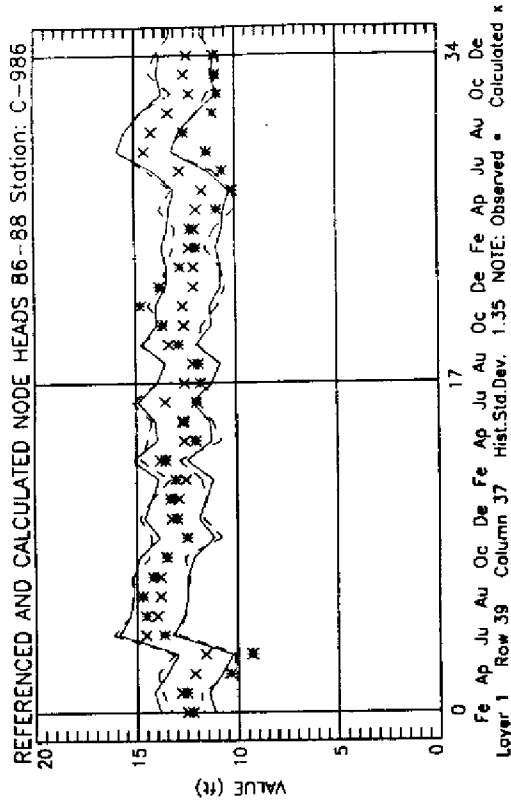


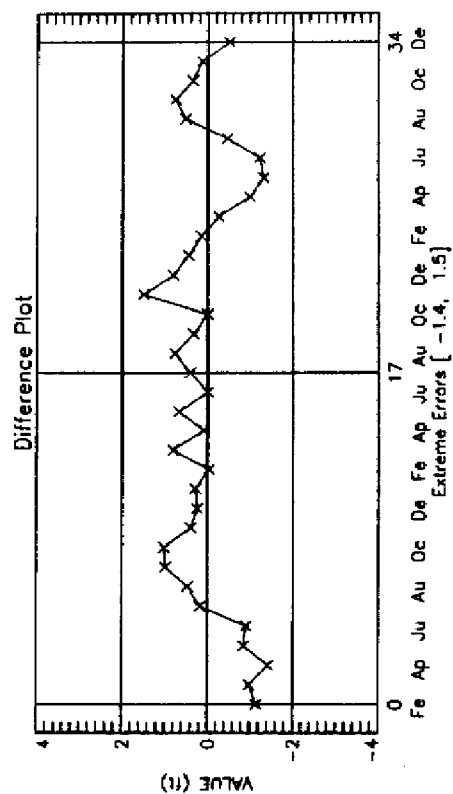
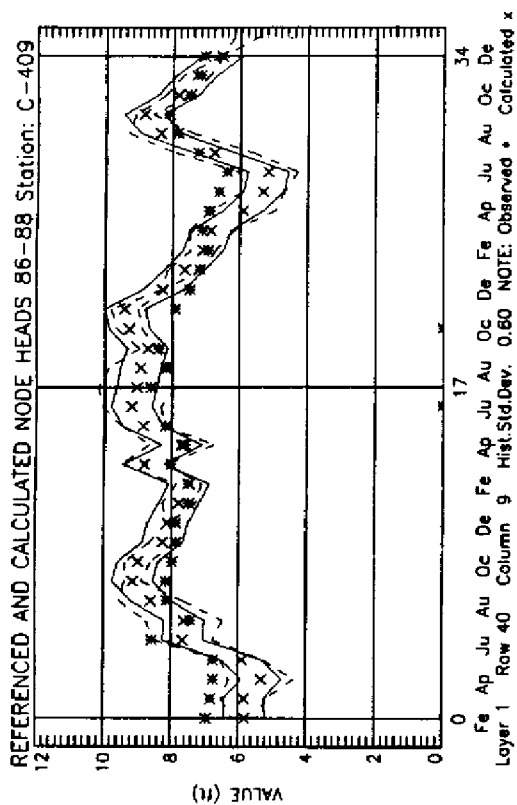
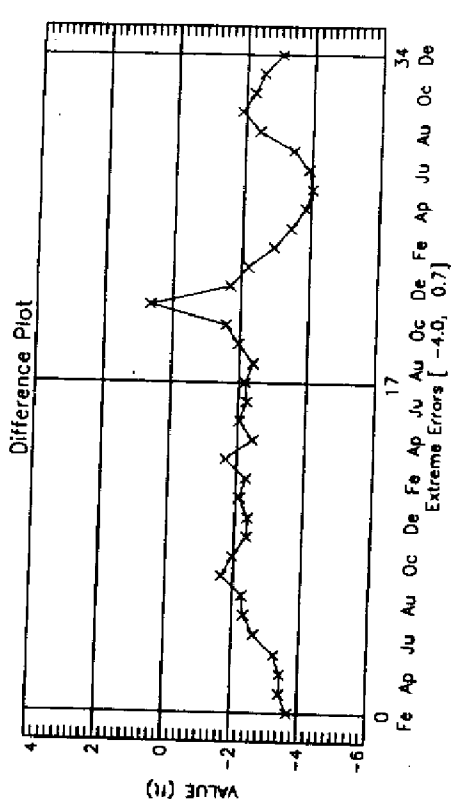
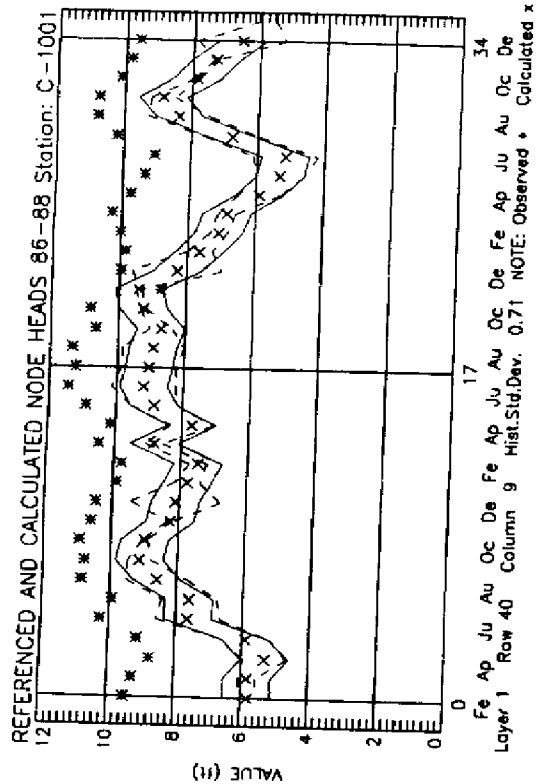


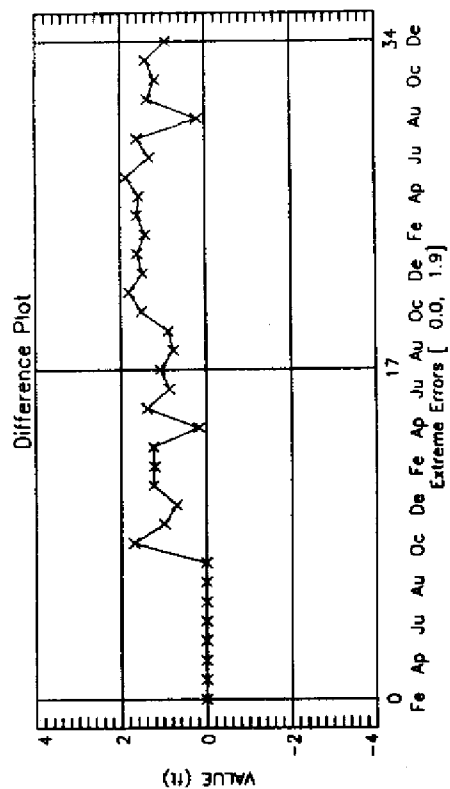
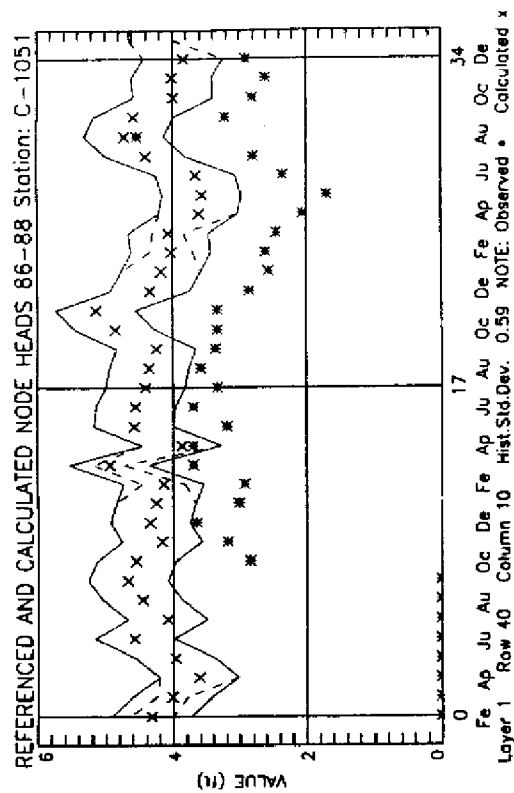
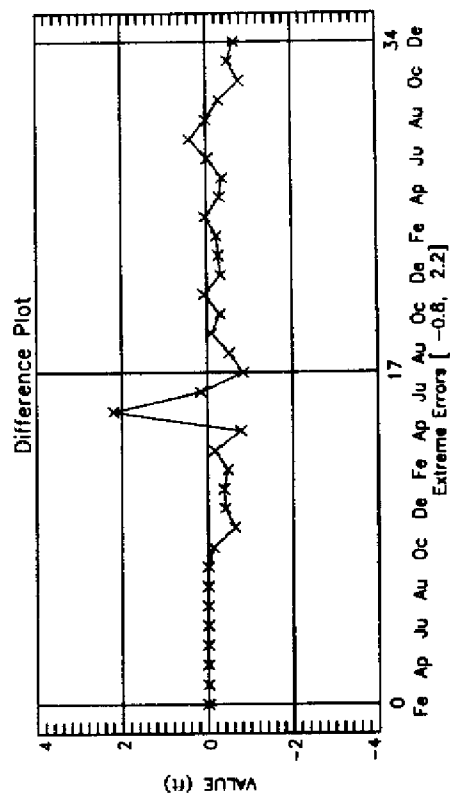
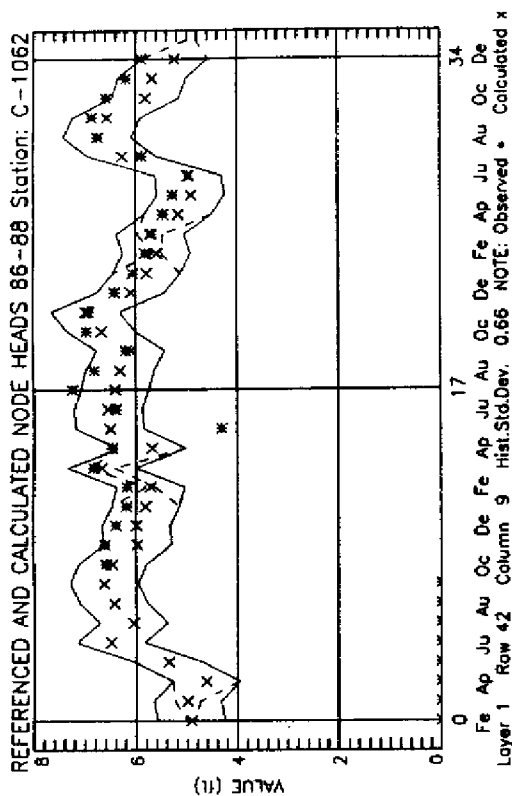


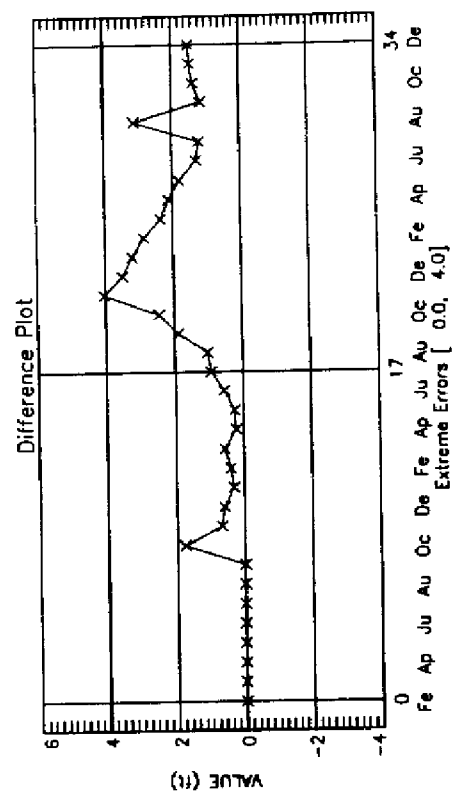
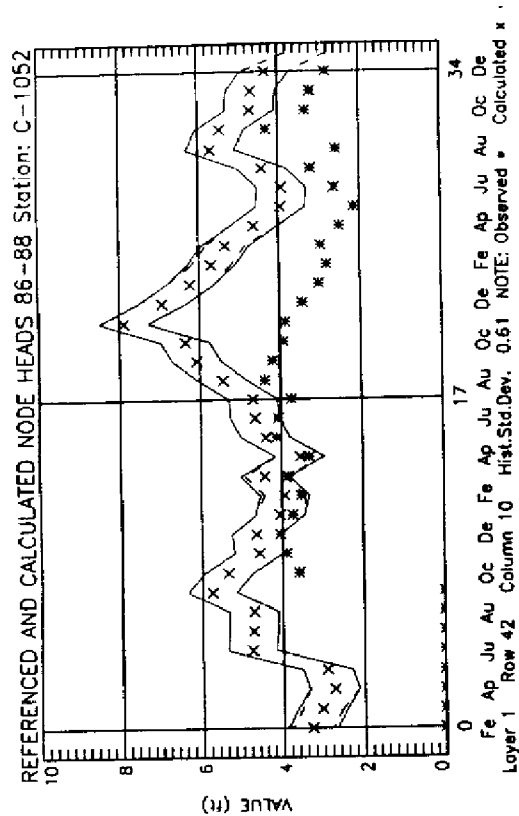
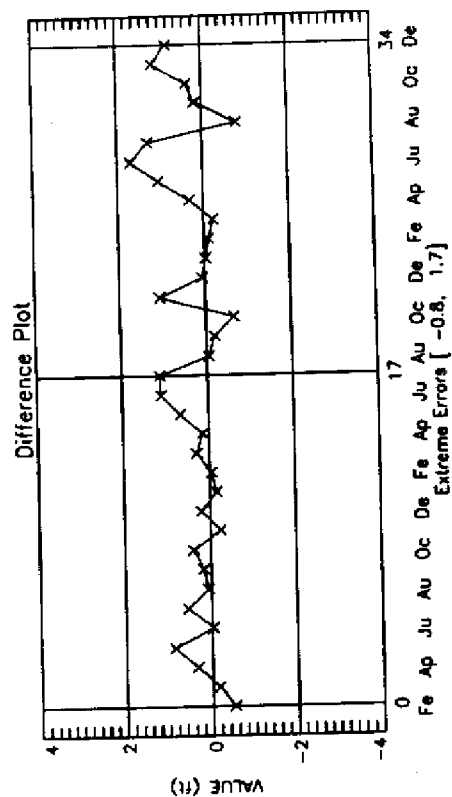
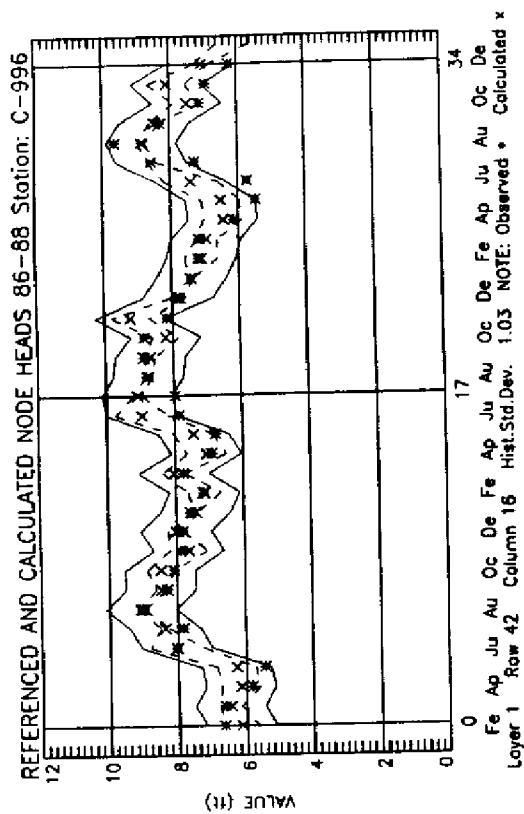


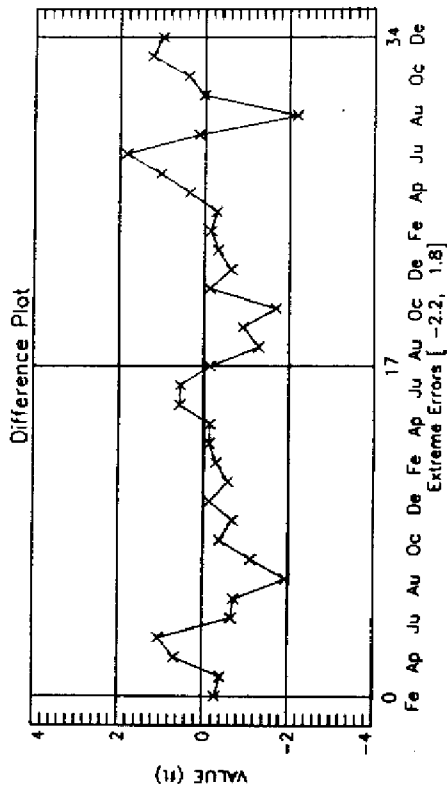
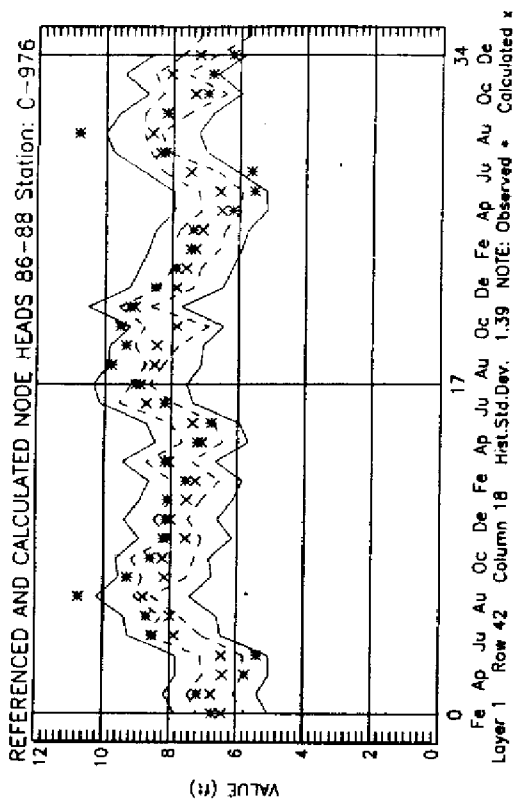
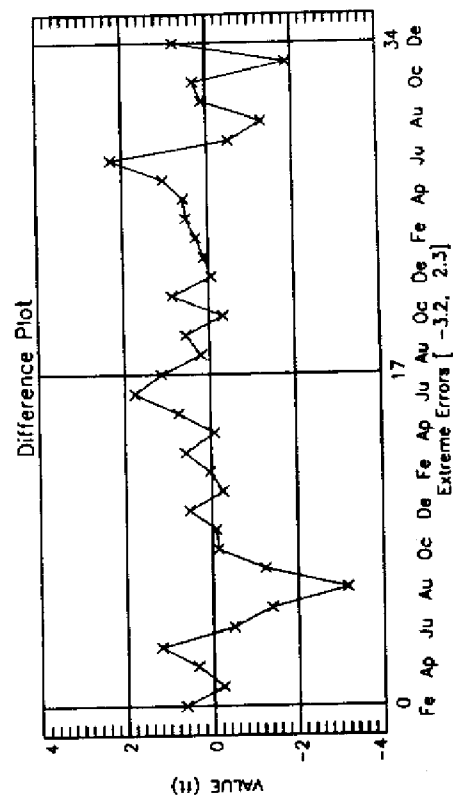
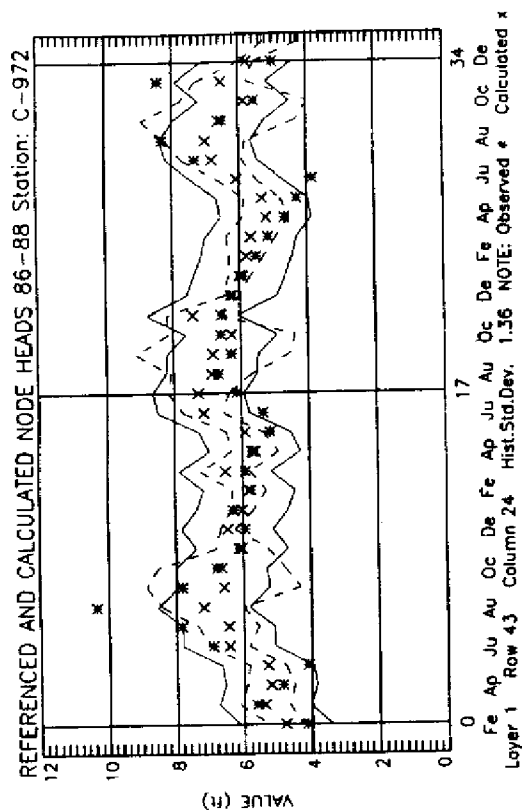


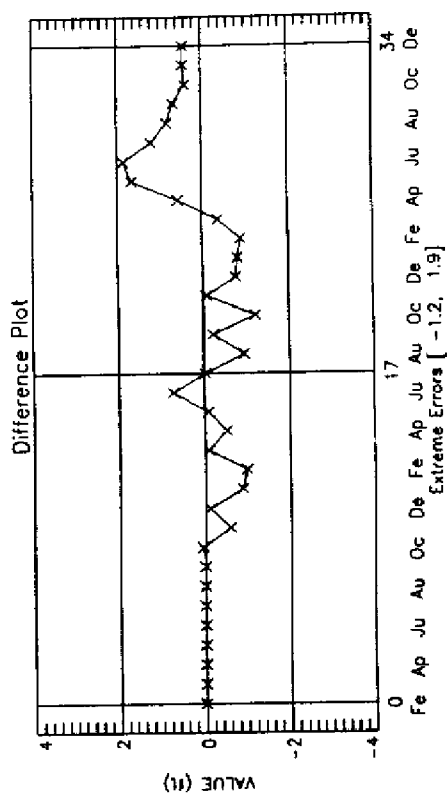
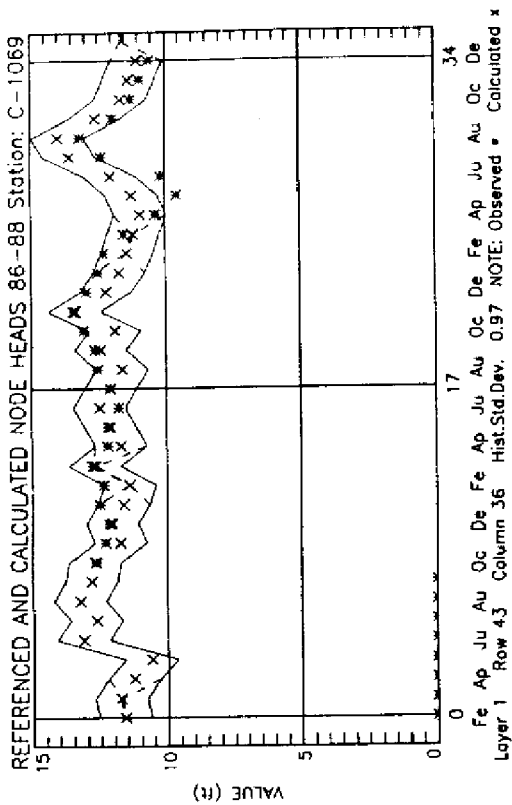
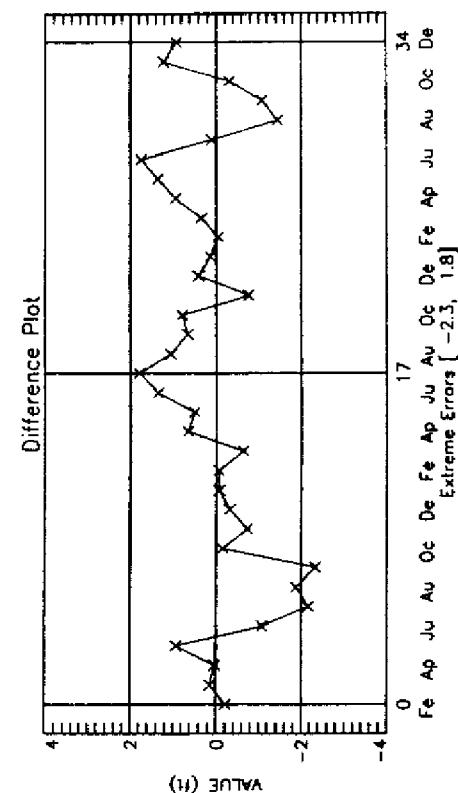
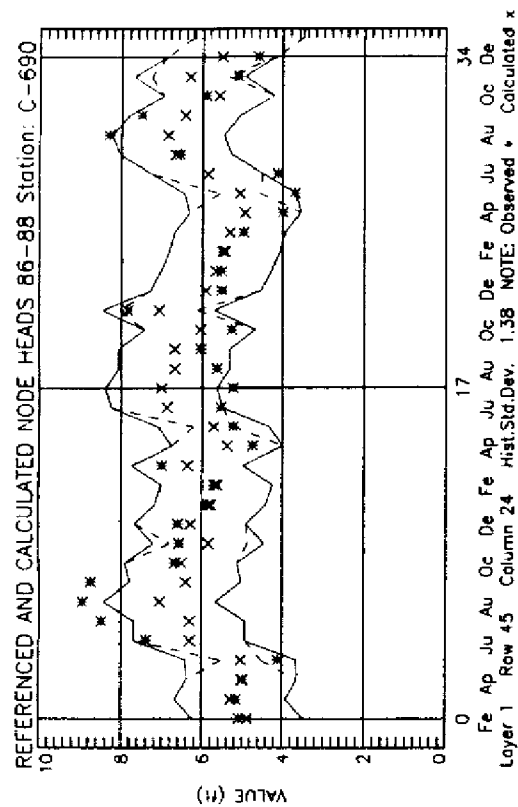


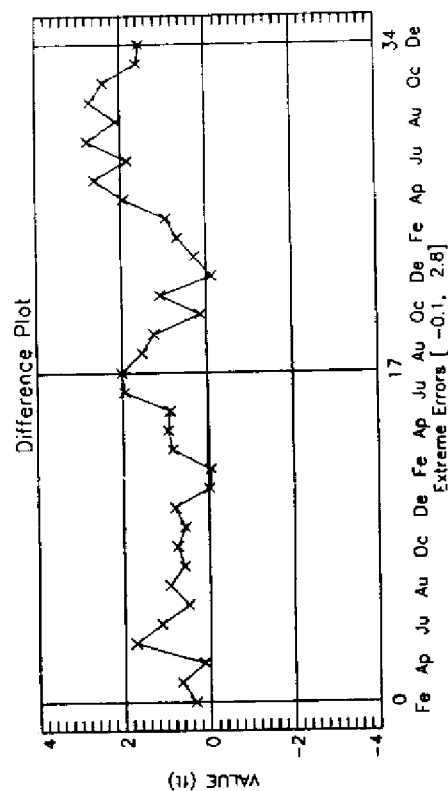
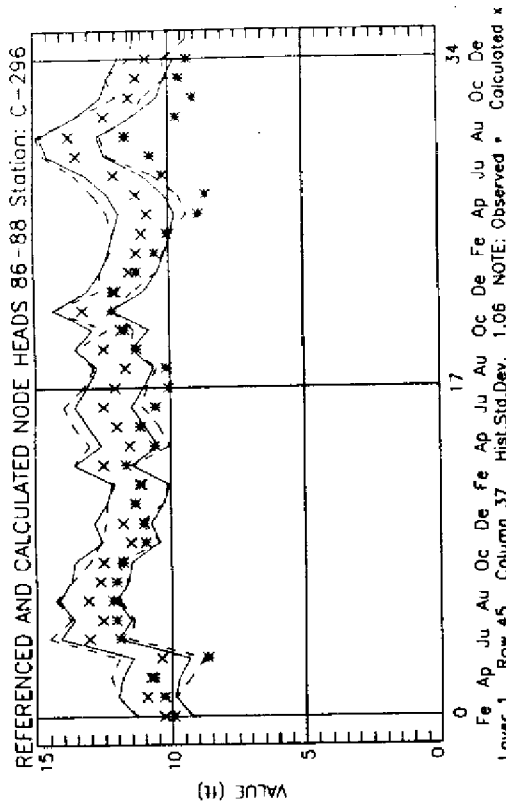
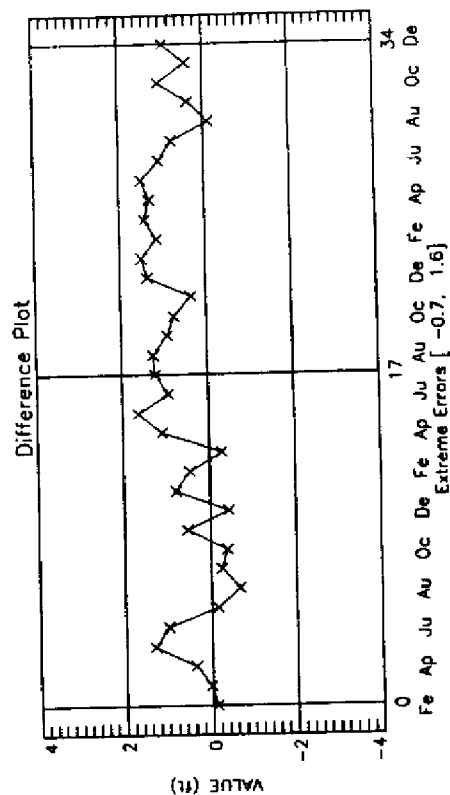
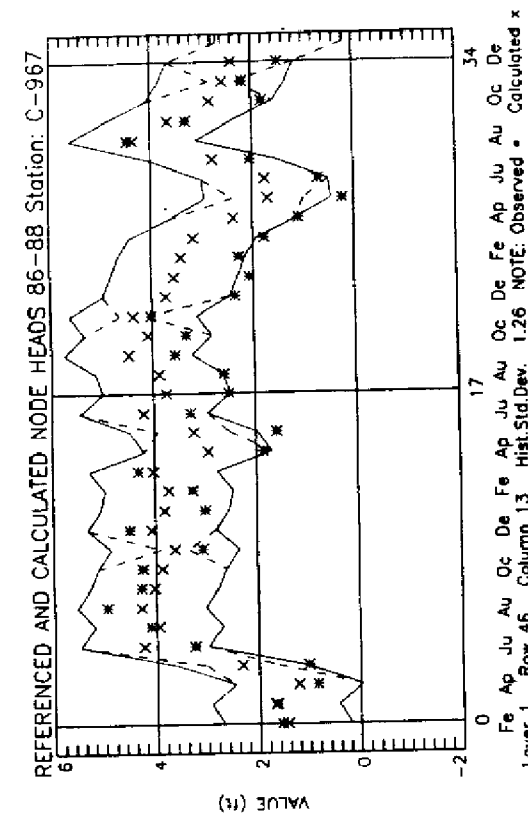


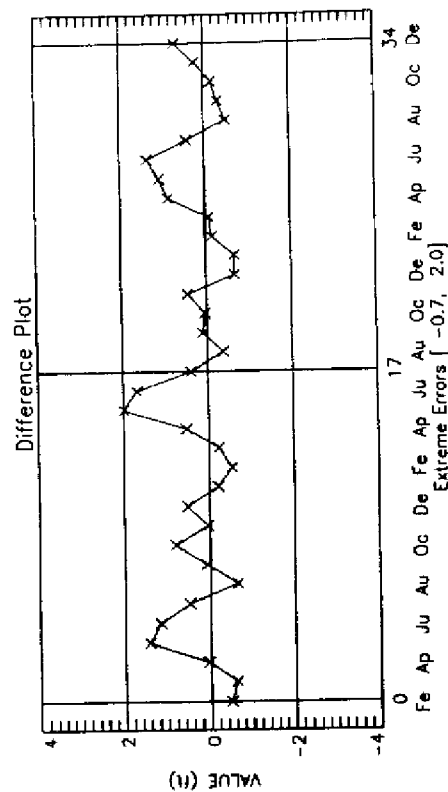
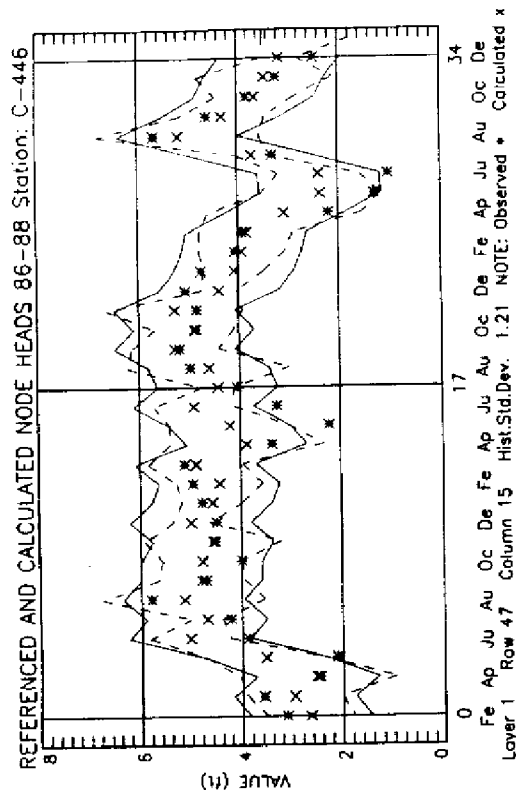
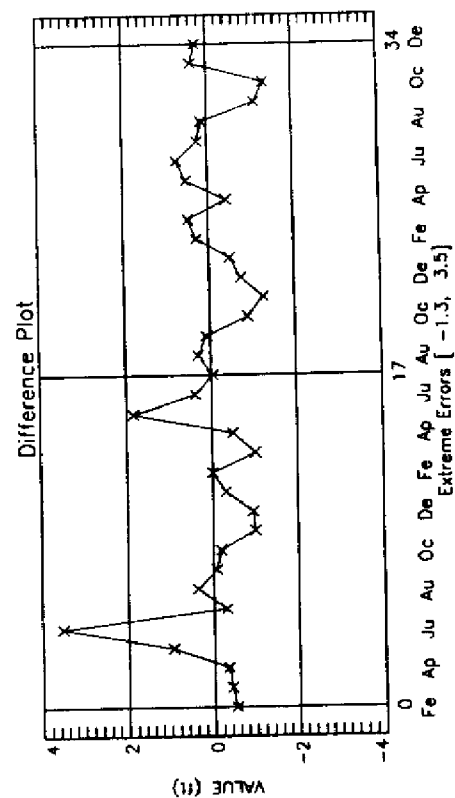
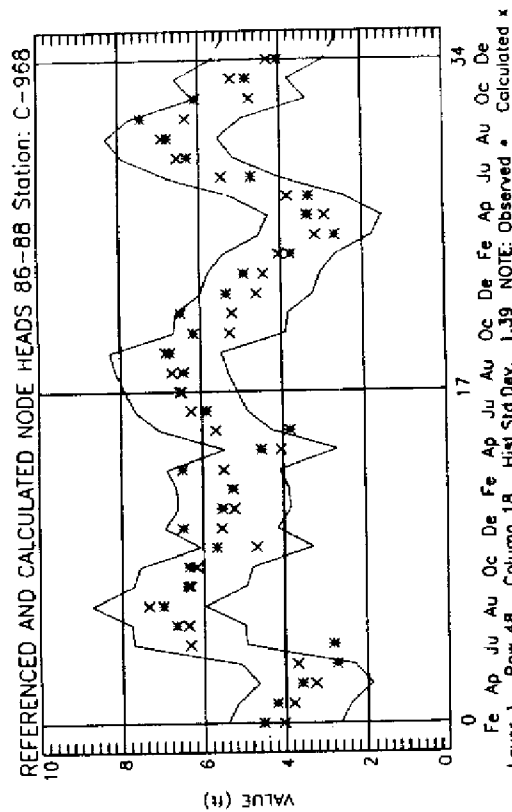


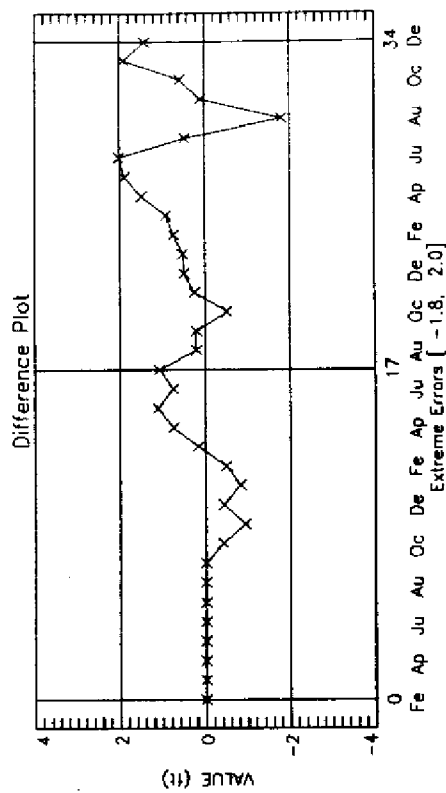
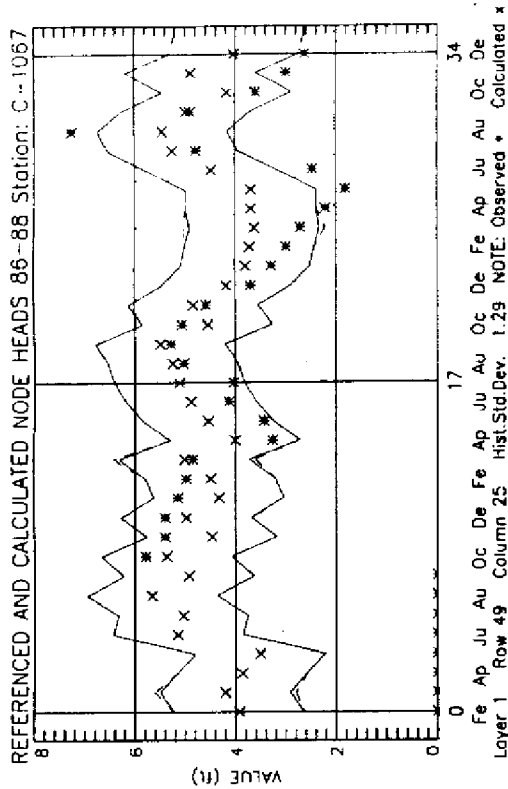
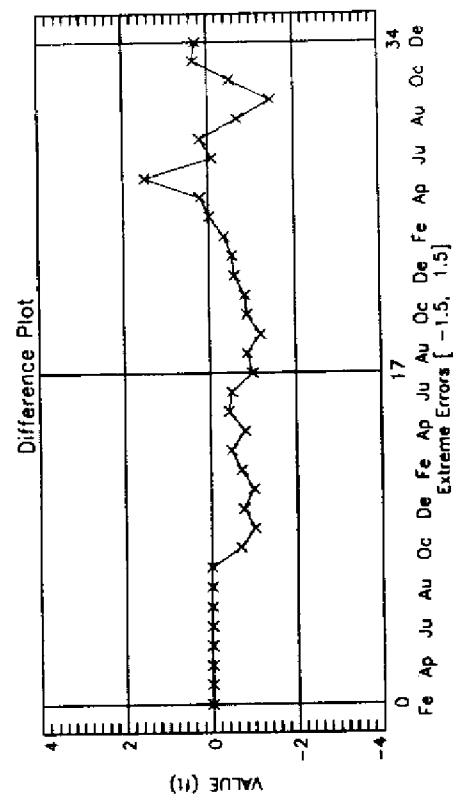
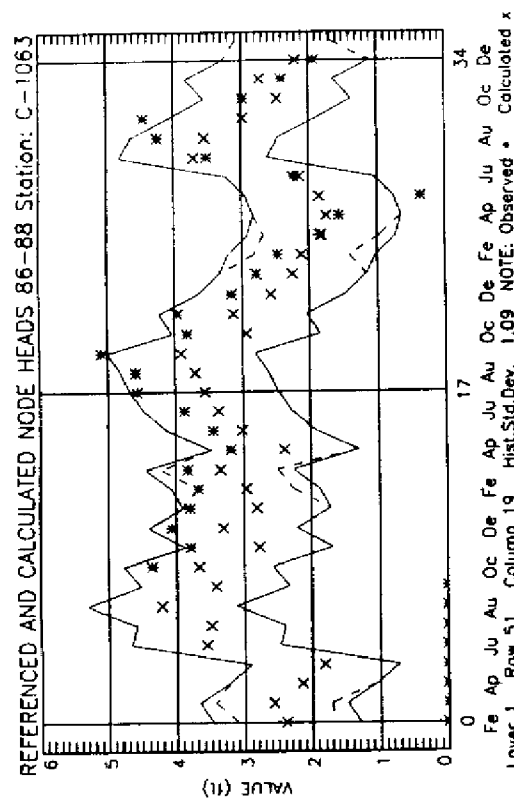


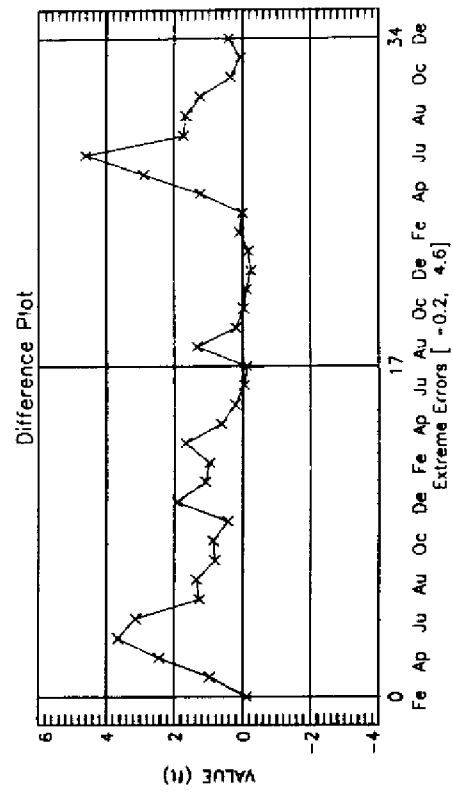
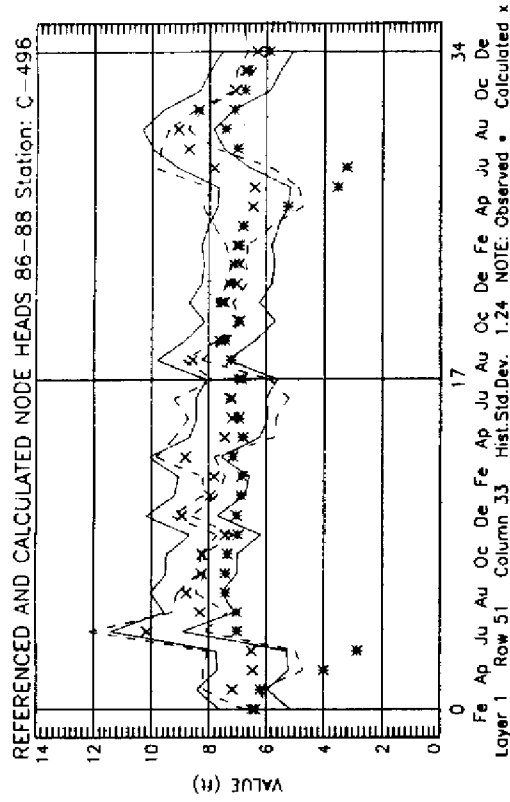
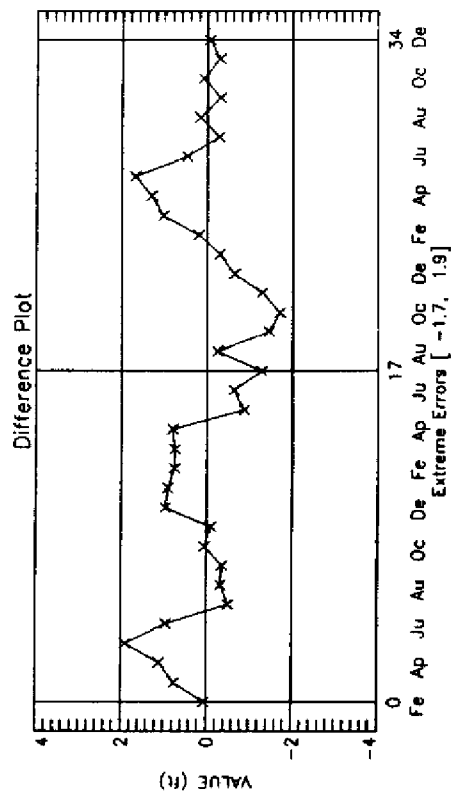
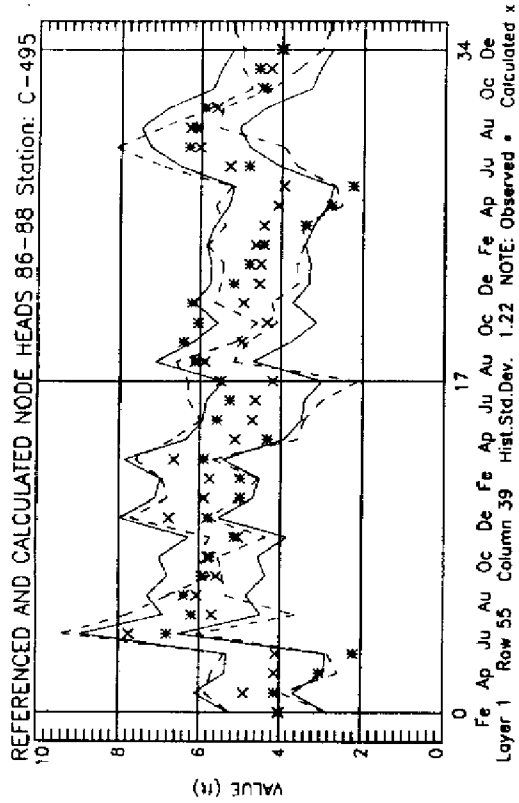


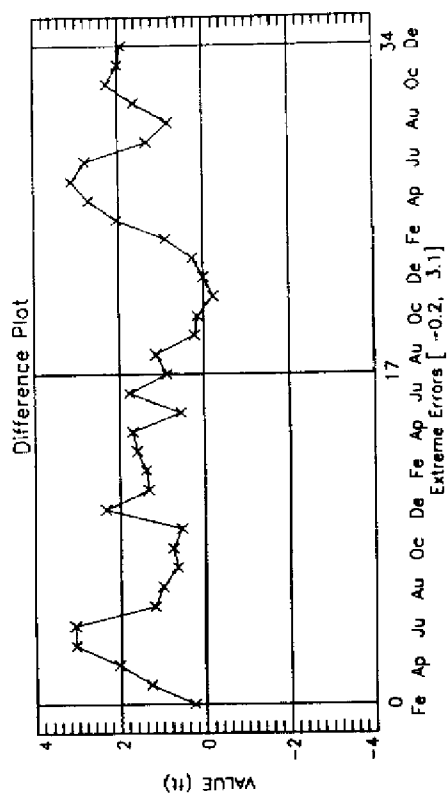
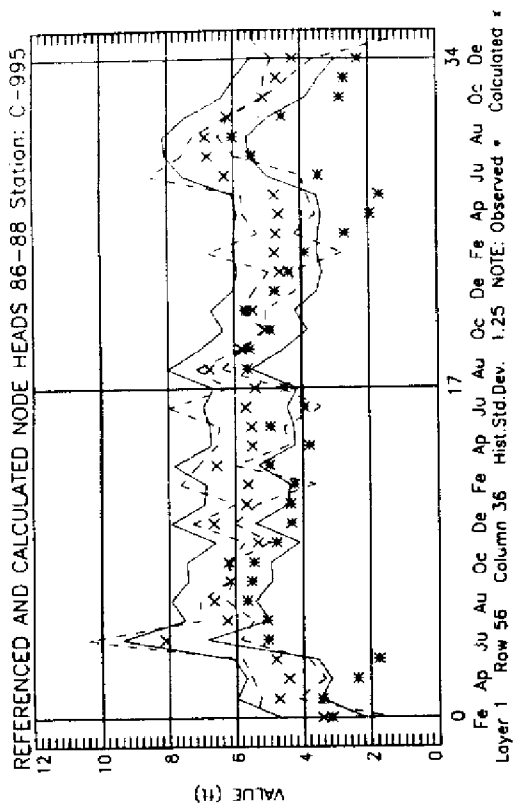
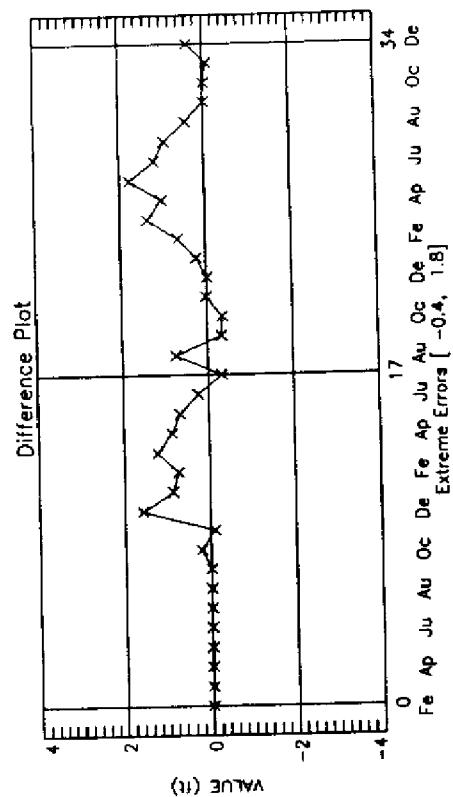
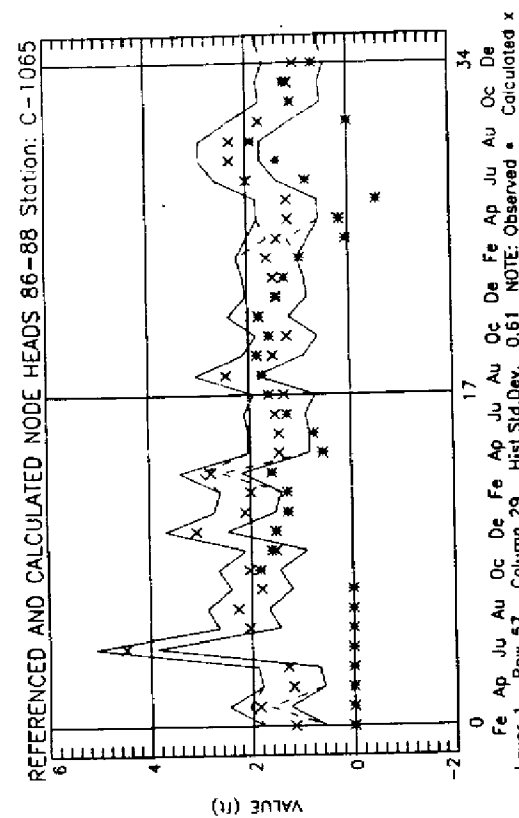






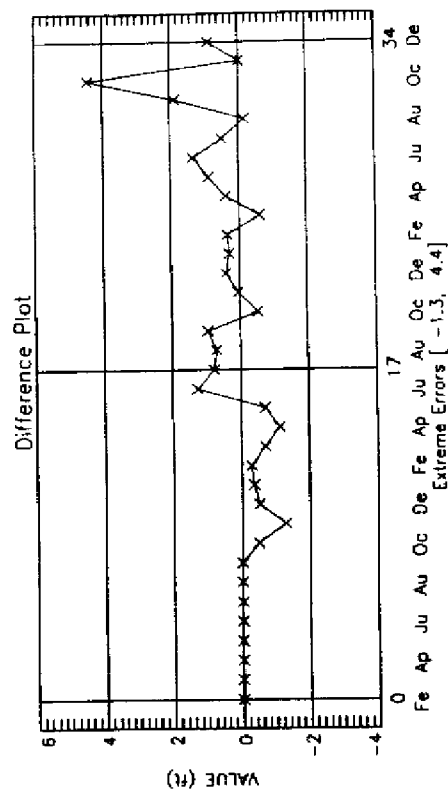
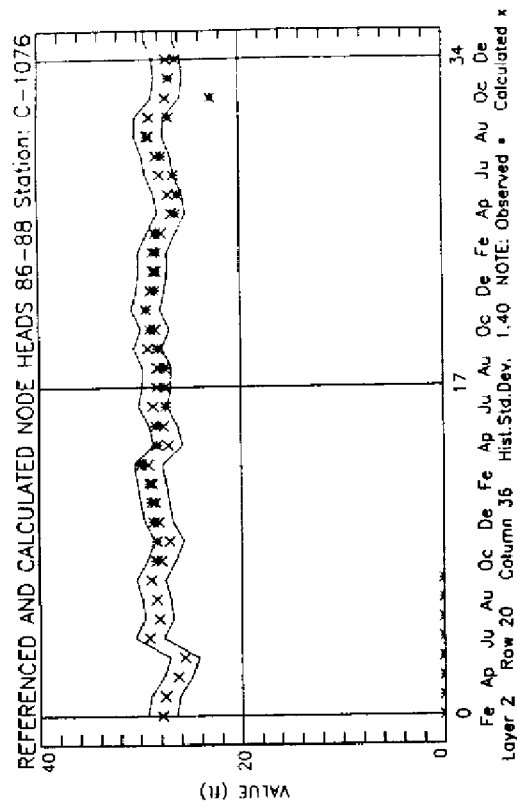
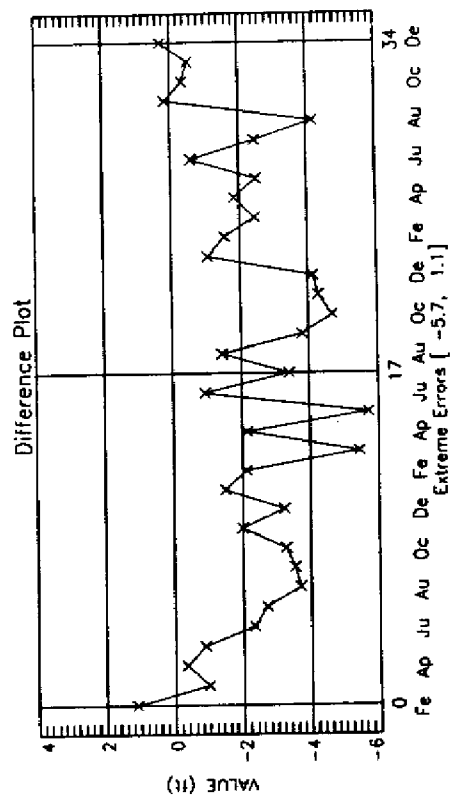
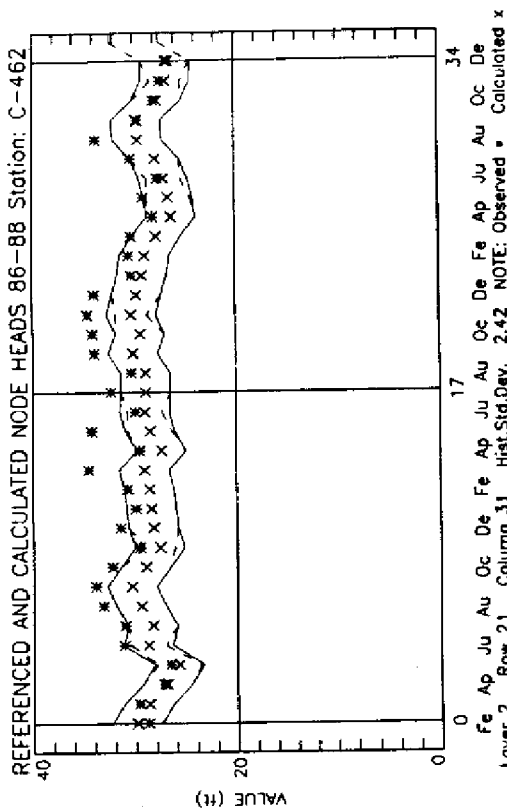


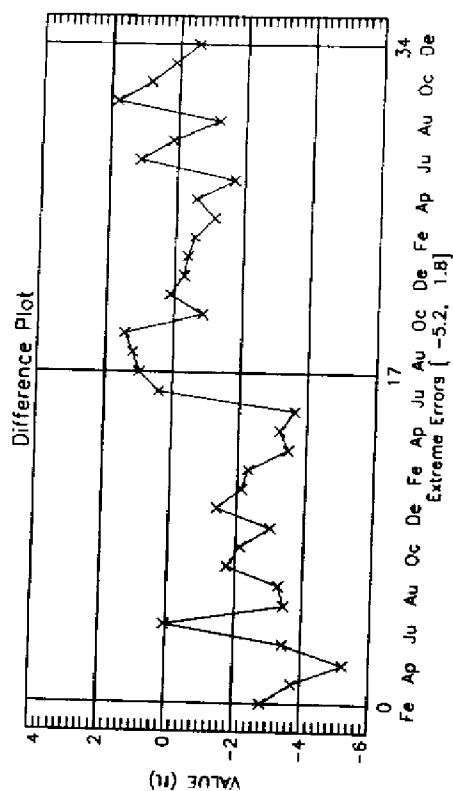
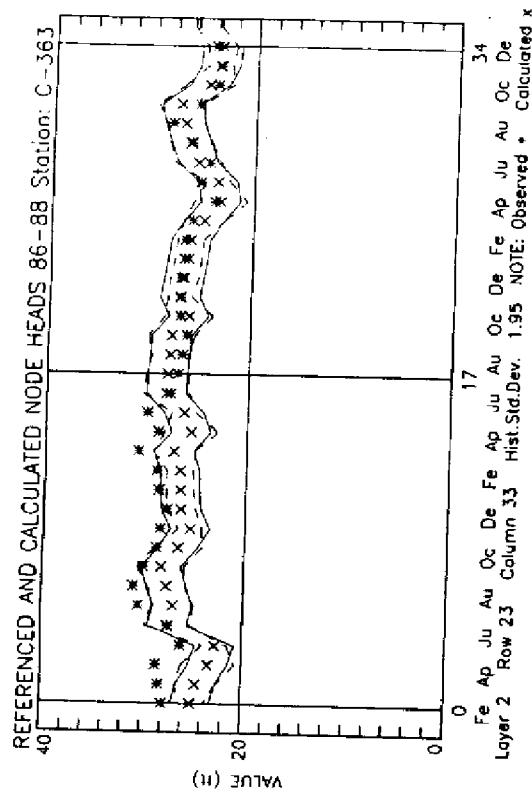
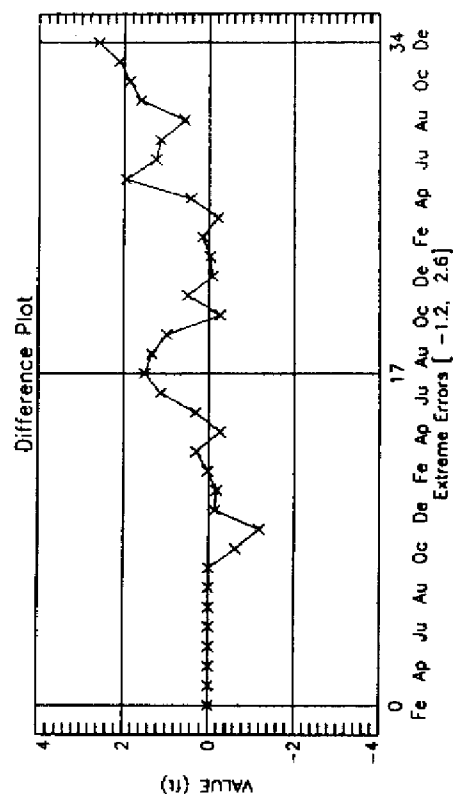
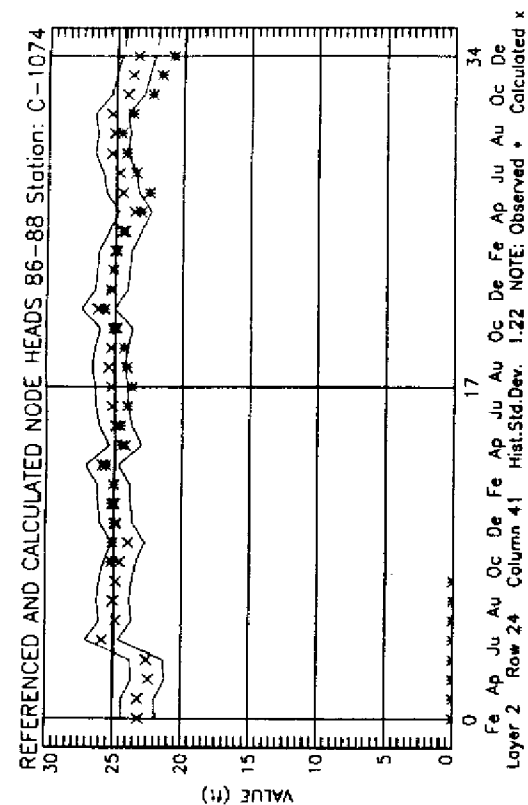


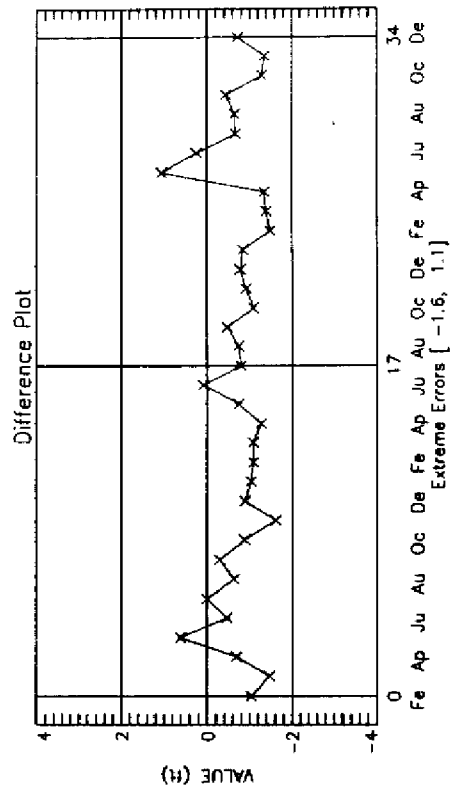
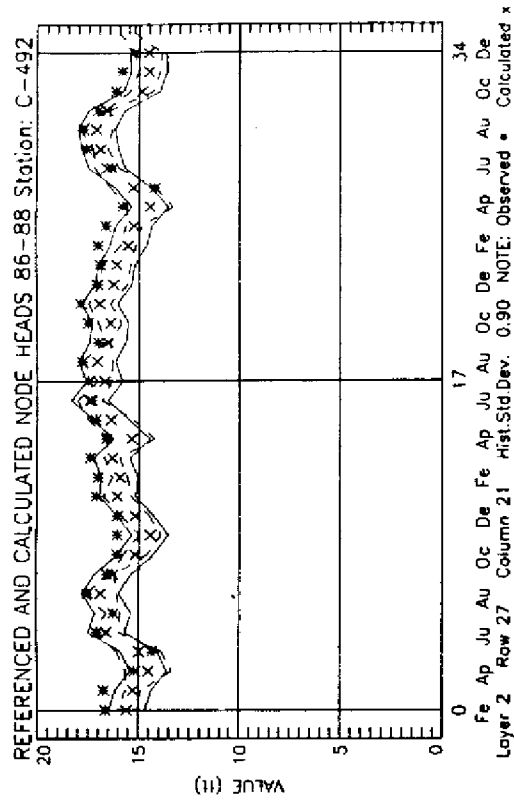
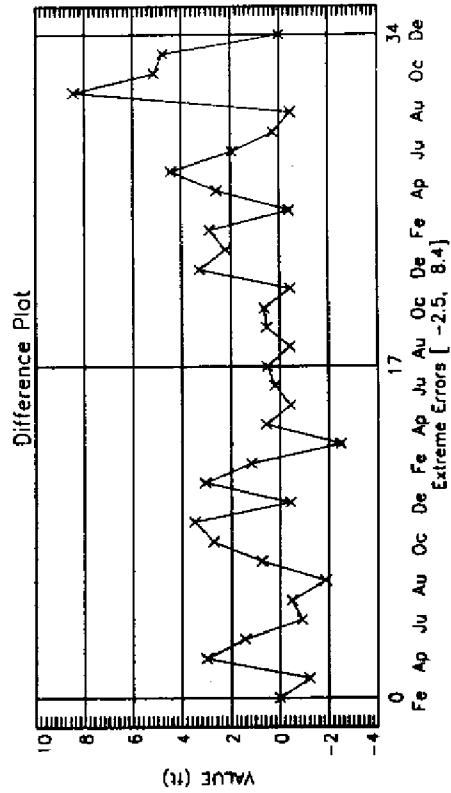
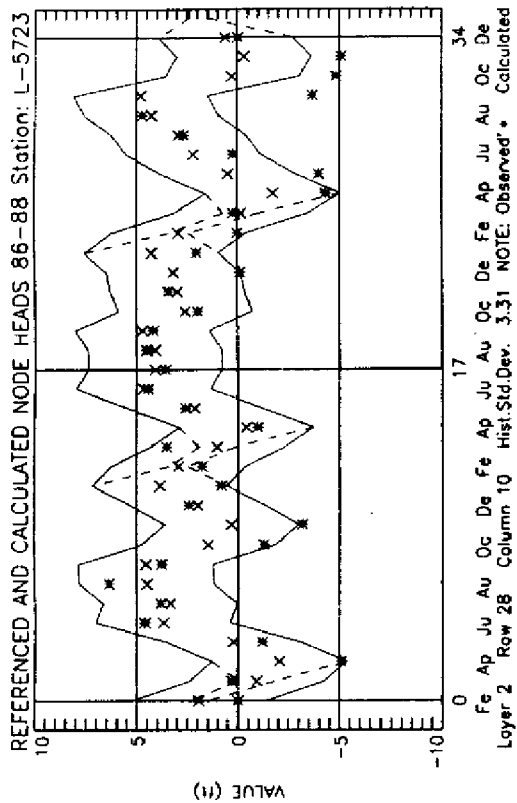


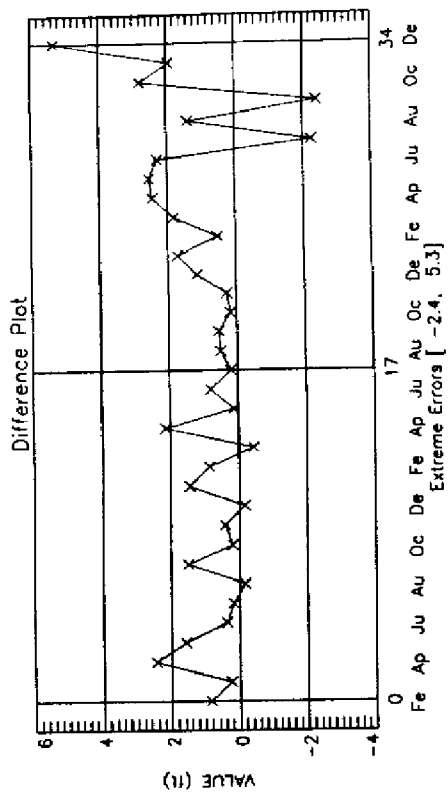
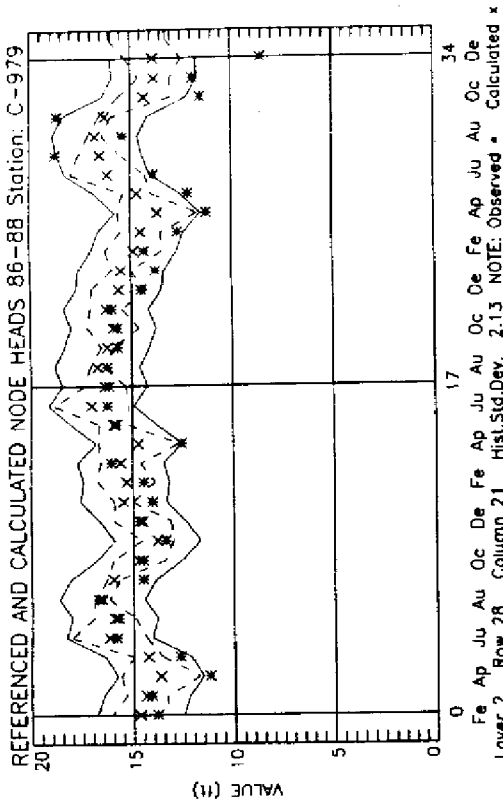
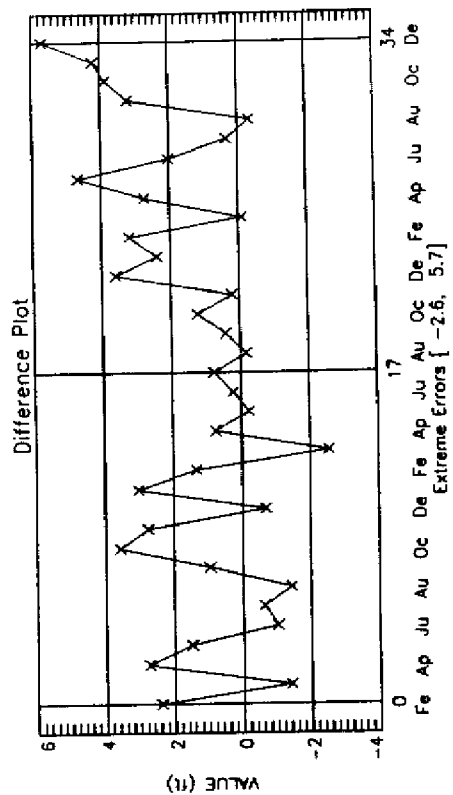
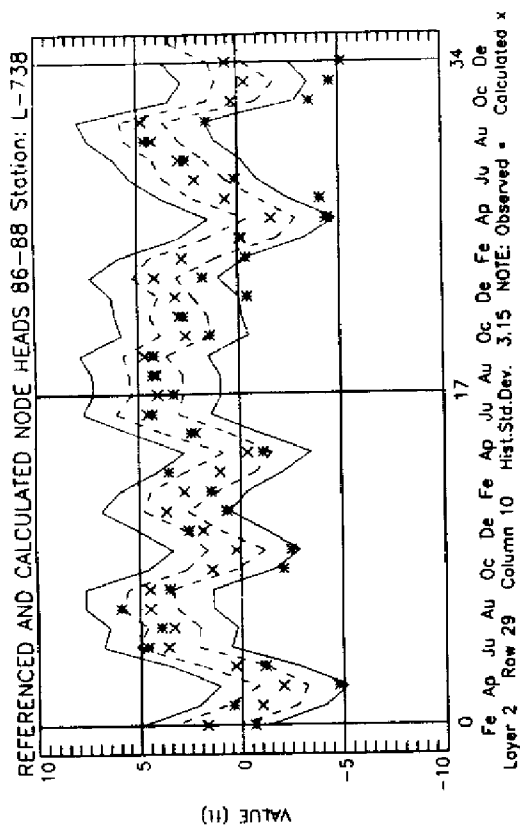
LAYER 2

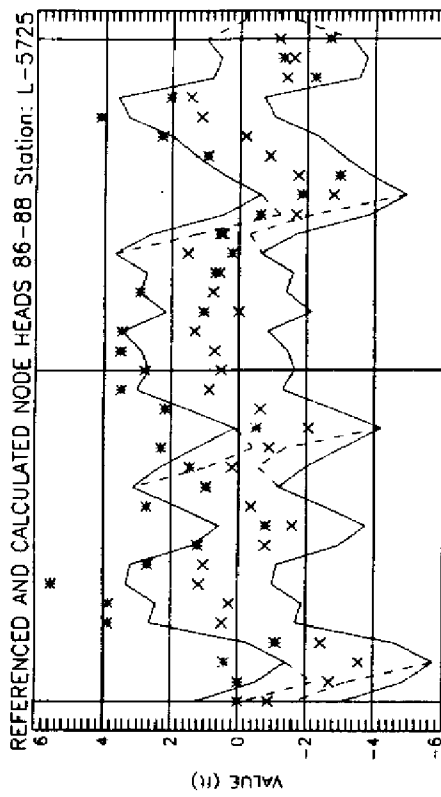
**LOWER TAMIAMI AQUIFER
COMPARATIVE HYDROGRAPHS**



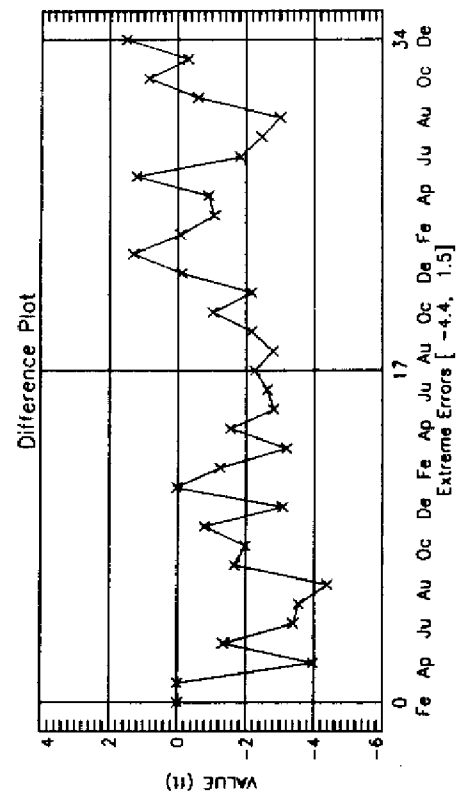




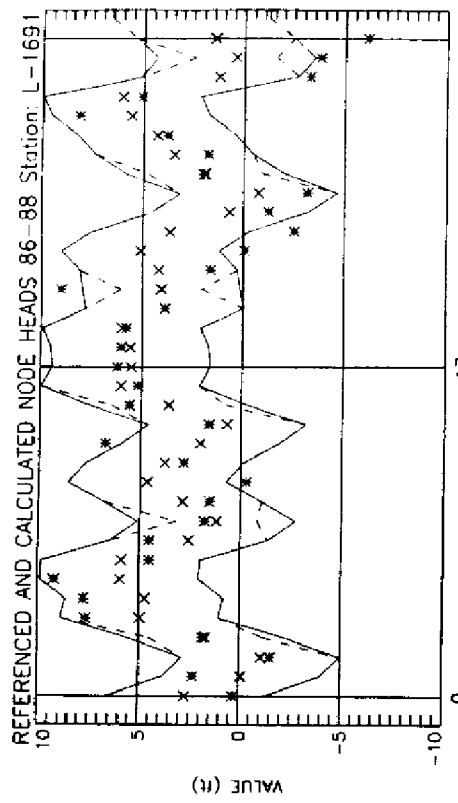




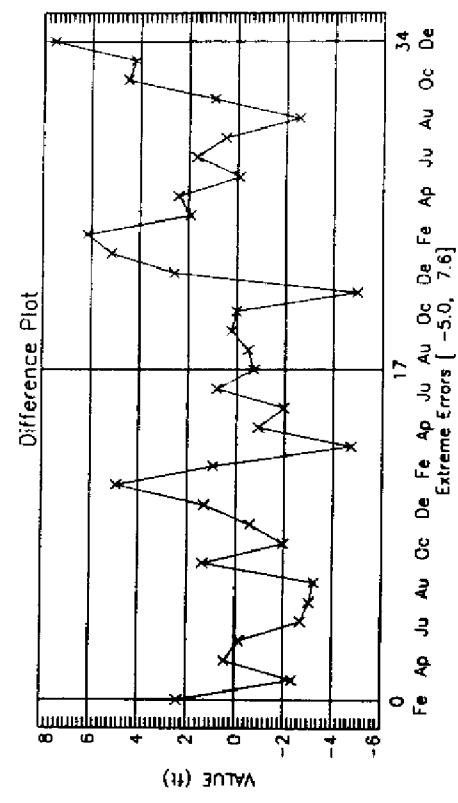
Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De
Layer 2 Row 30 Column 8 Hist.Std.Dev. 2.16 NOTE: Observed * Calculated x



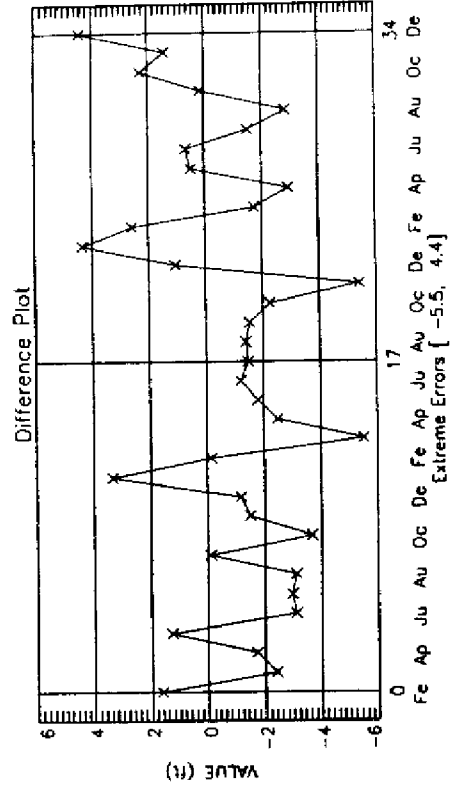
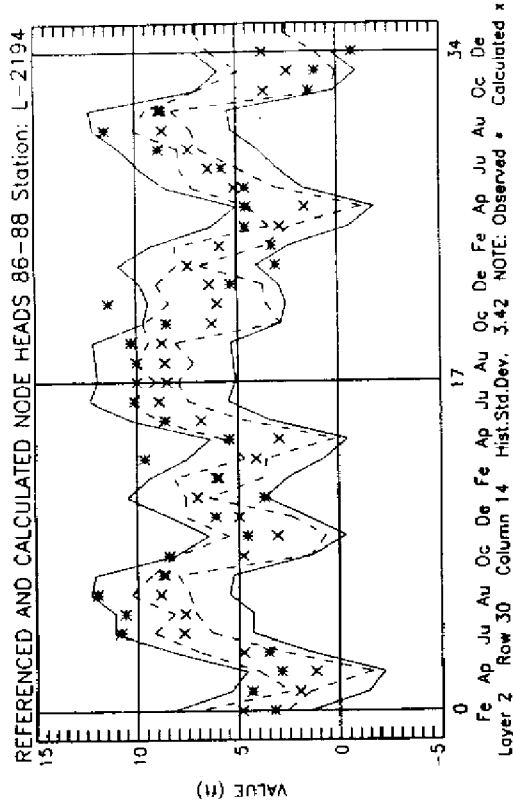
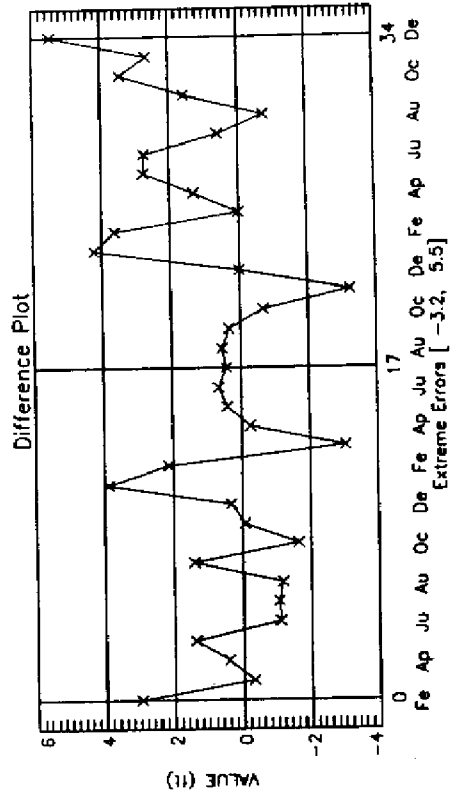
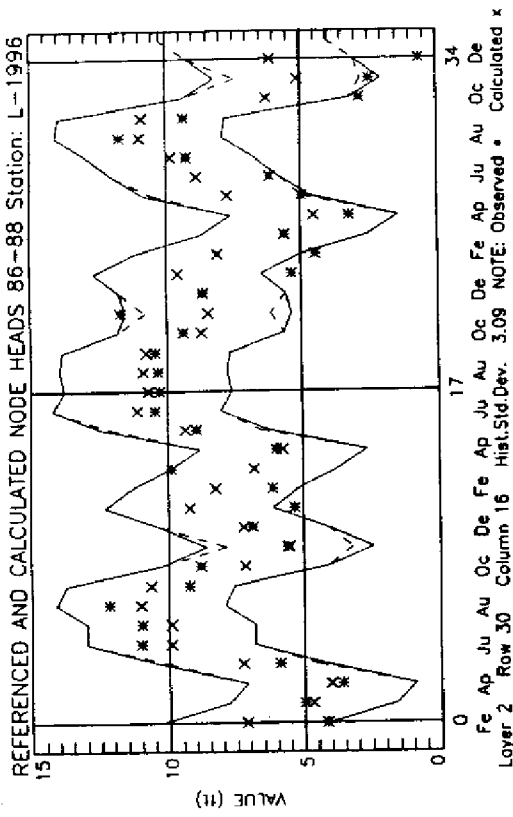
Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De
Extreme Errors [-4.4, 1.5]

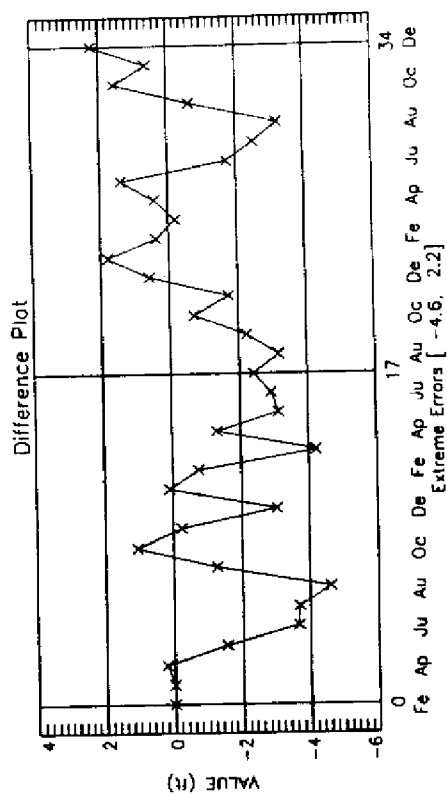
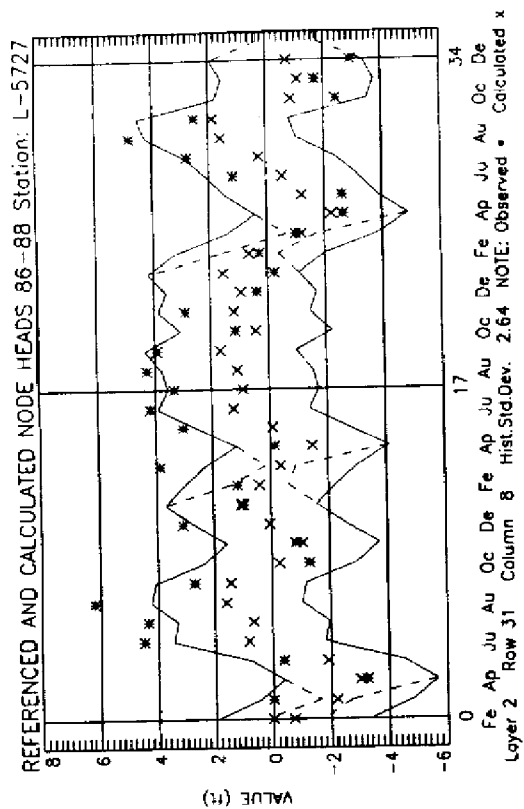
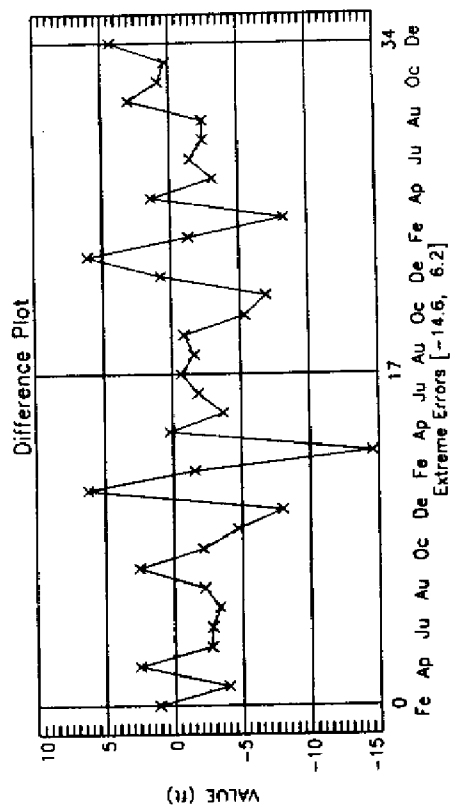
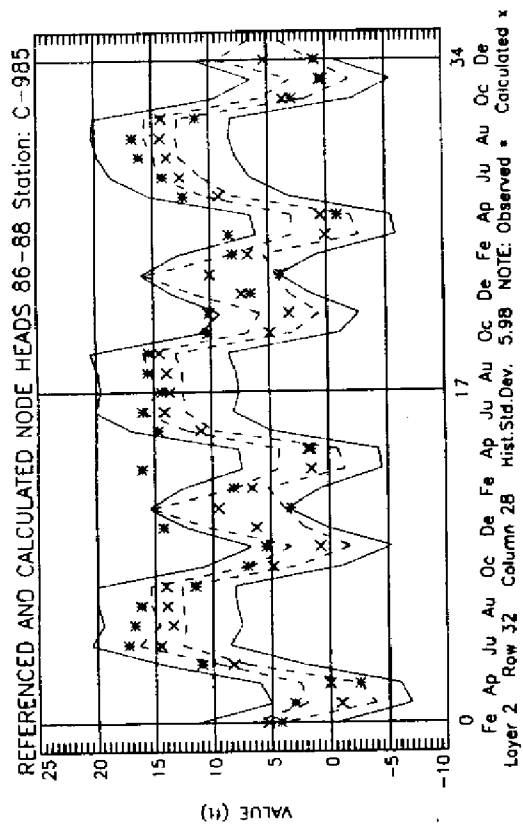


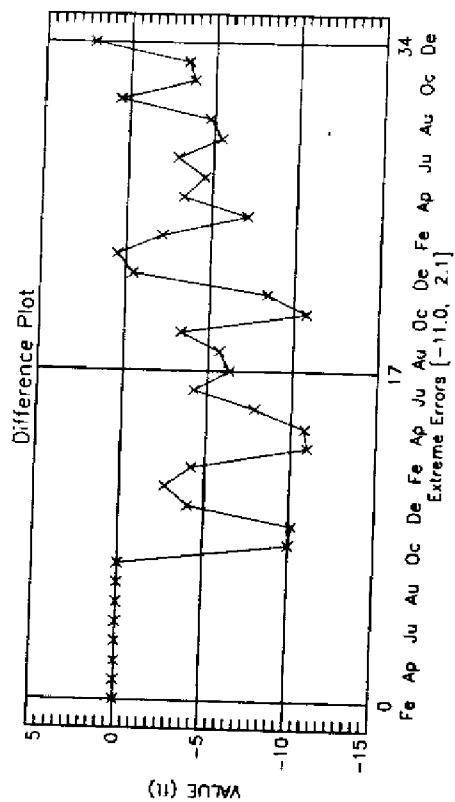
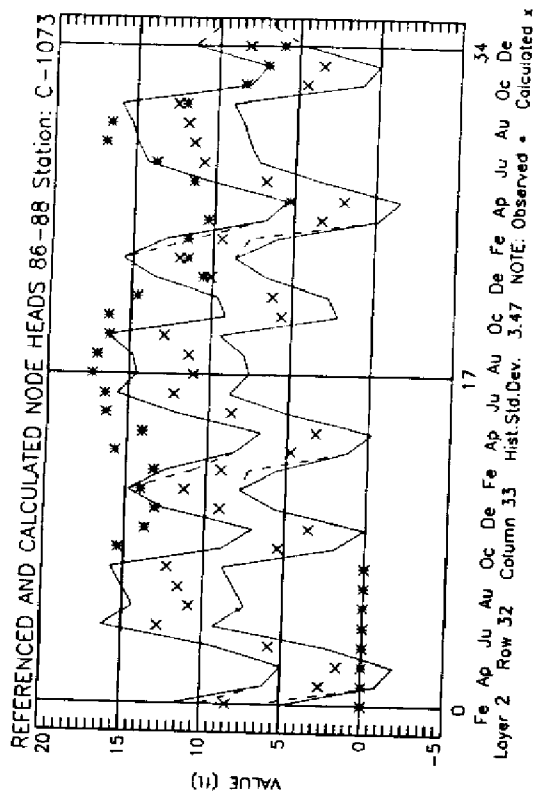
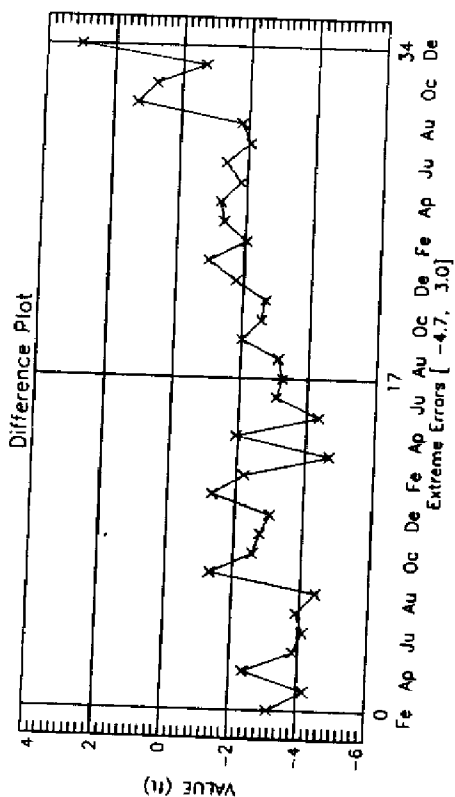
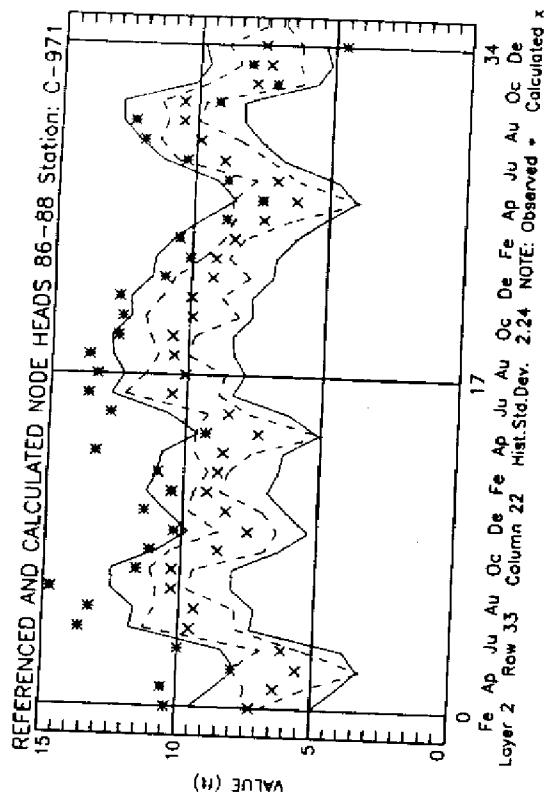
Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De
Layer 2 Row 29 Column 11 Hist.Std.Dev. 3.92 NOTE: Observed * Calculated x

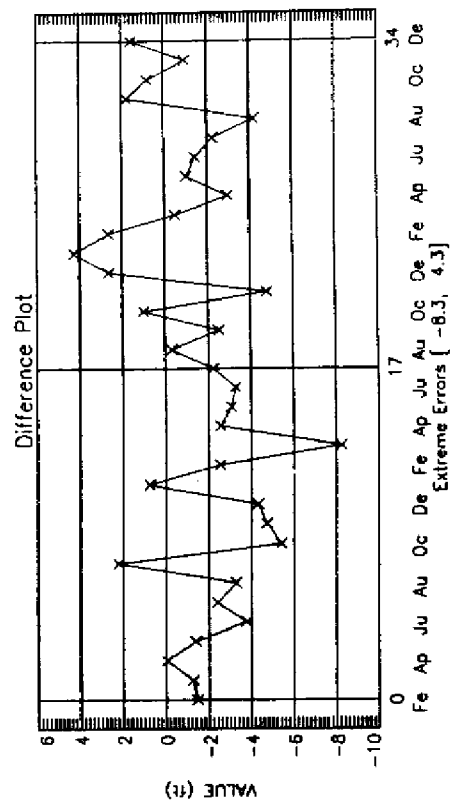
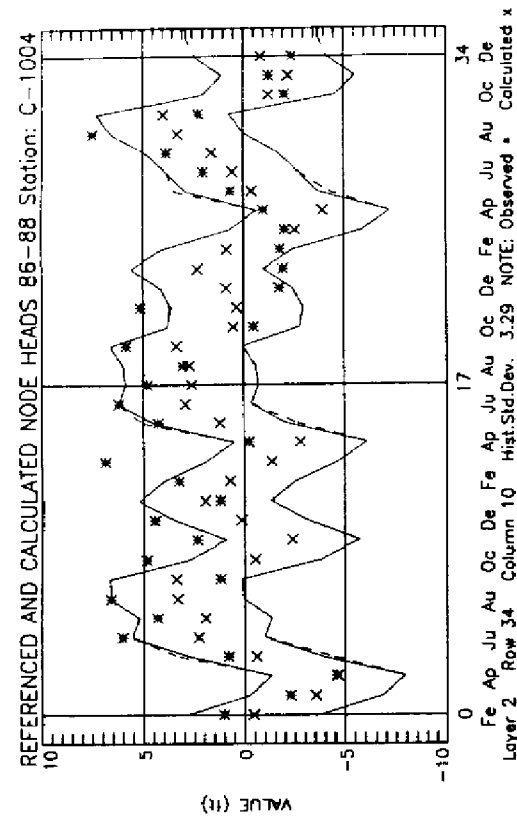
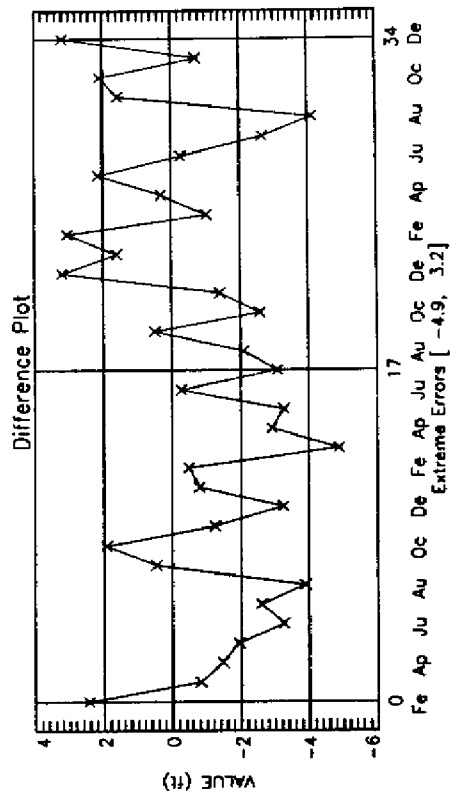
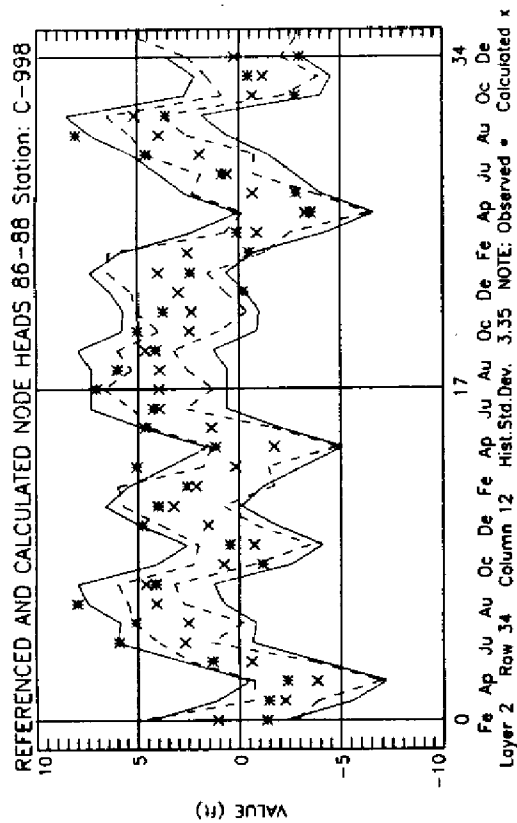


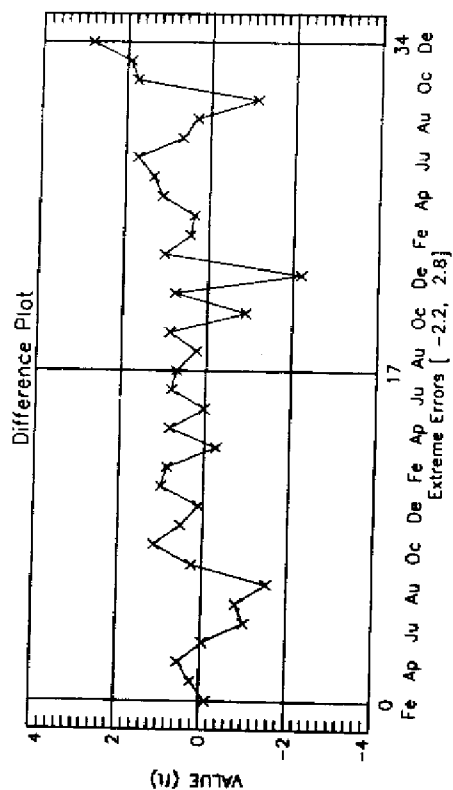
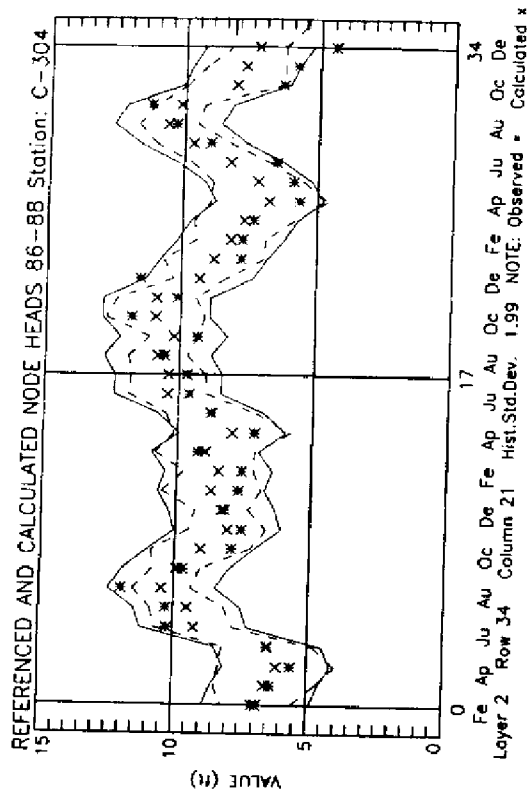
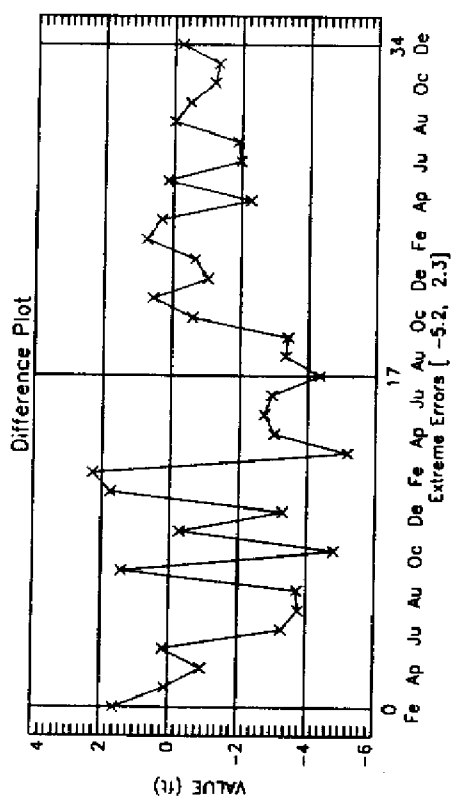
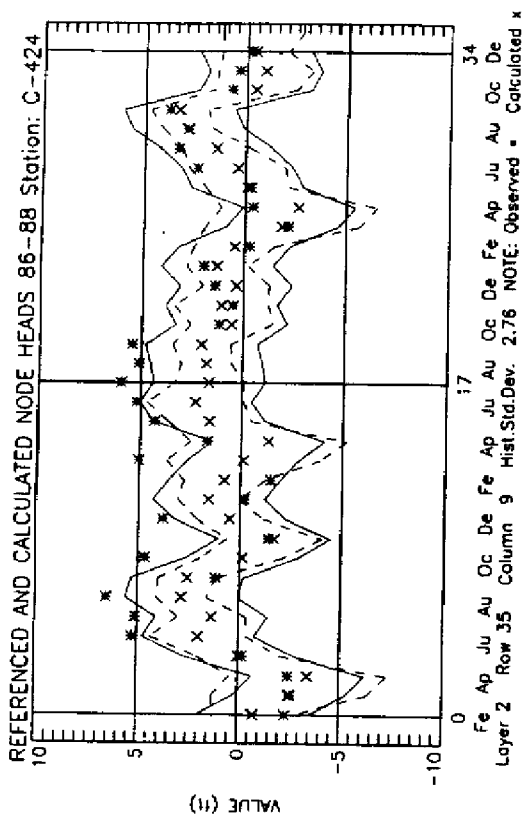
Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De
Extreme Errors [-5.0, 7.6]

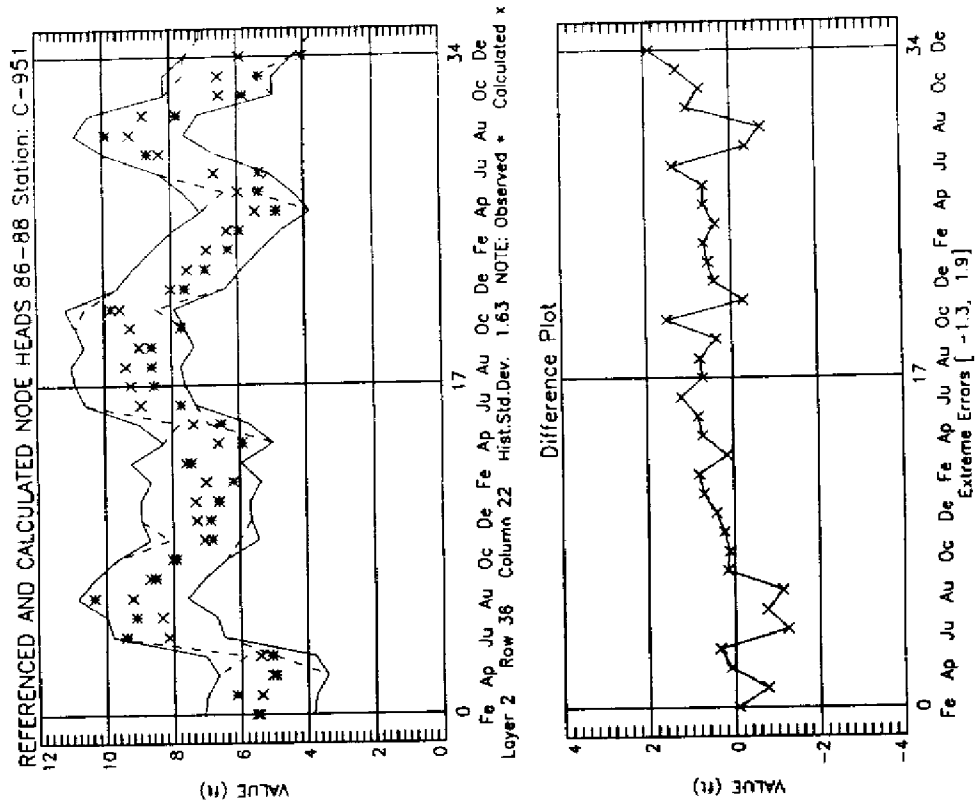
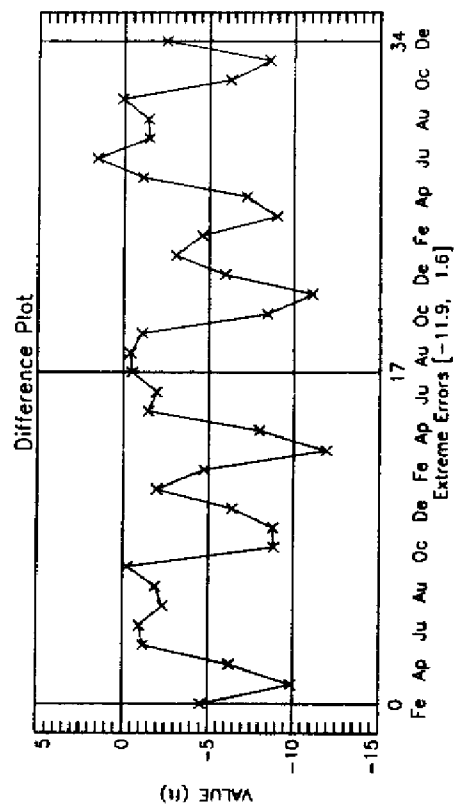
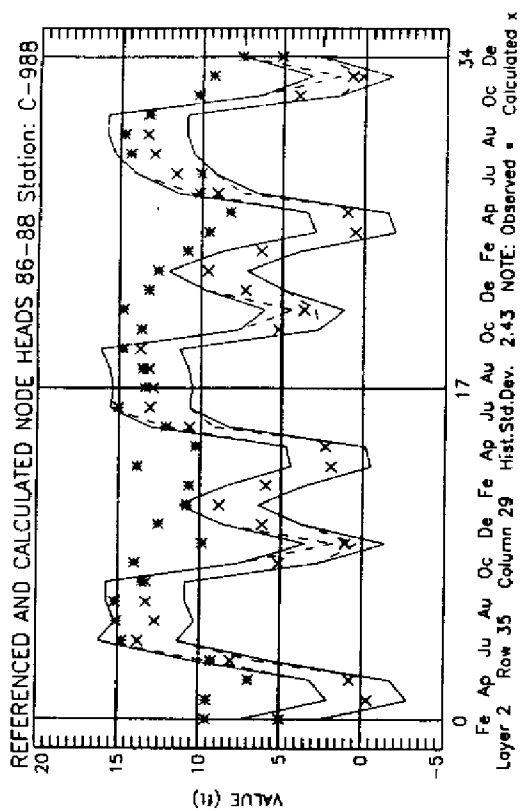


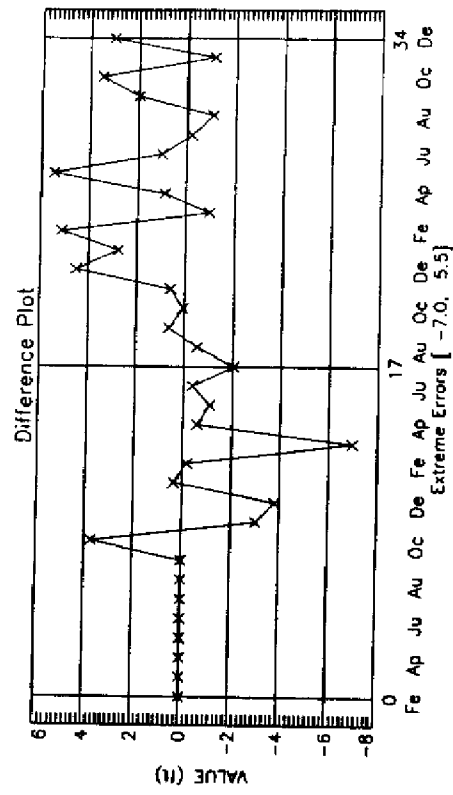
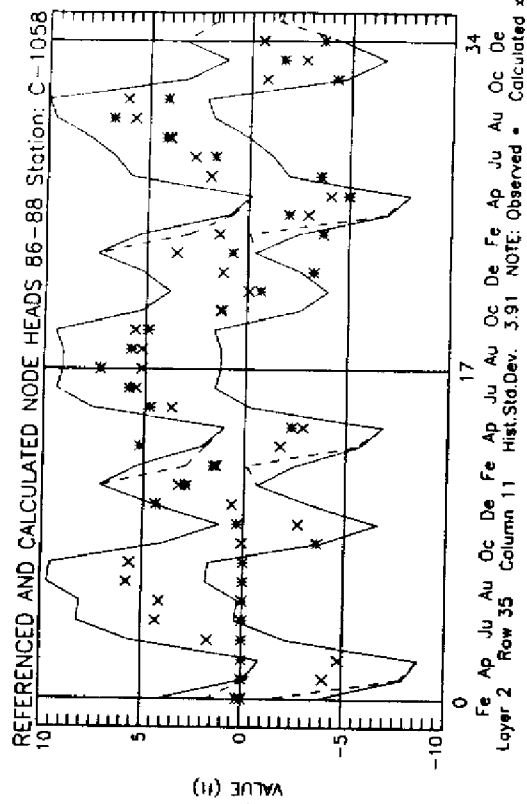
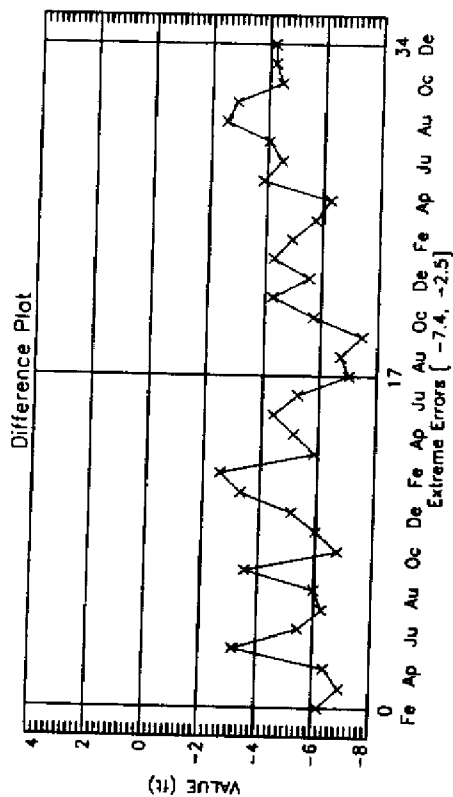
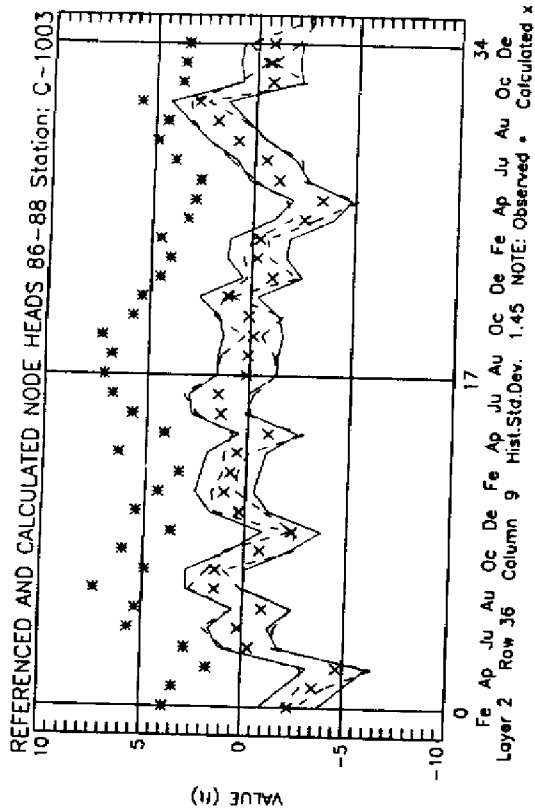


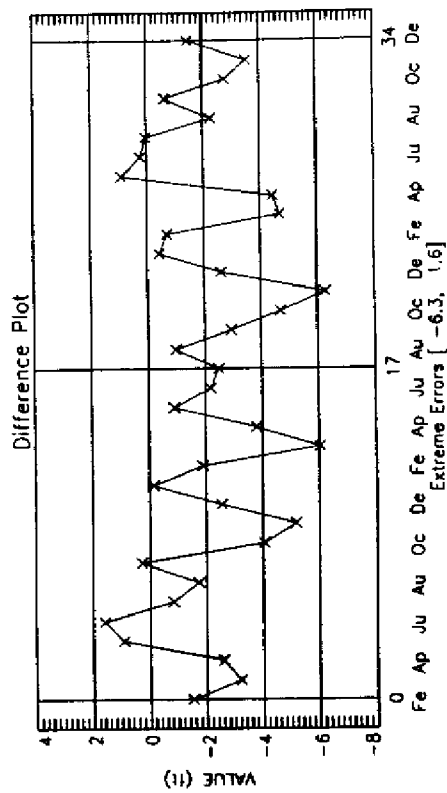
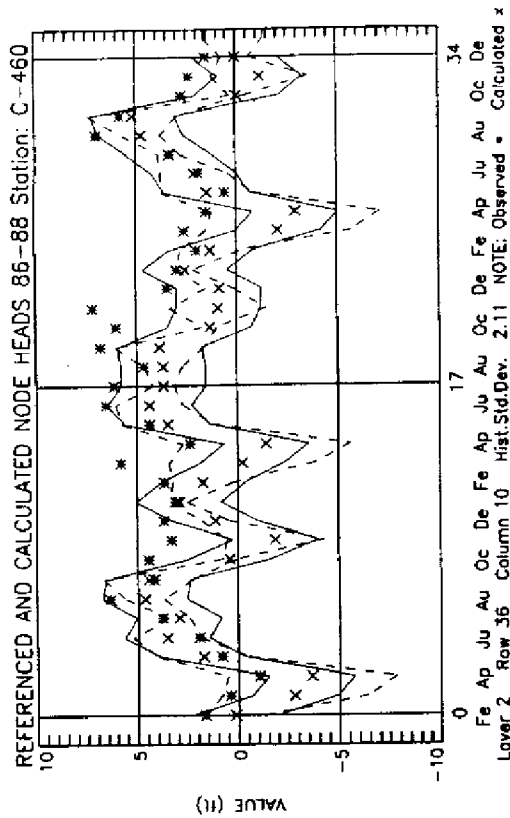
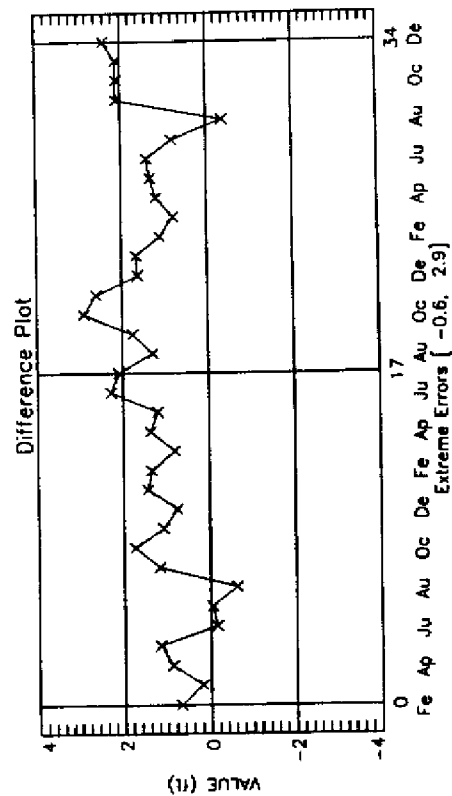
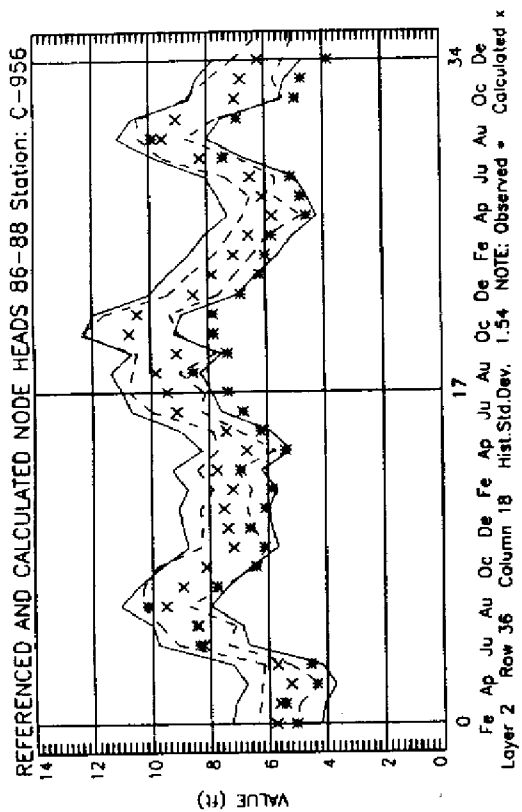




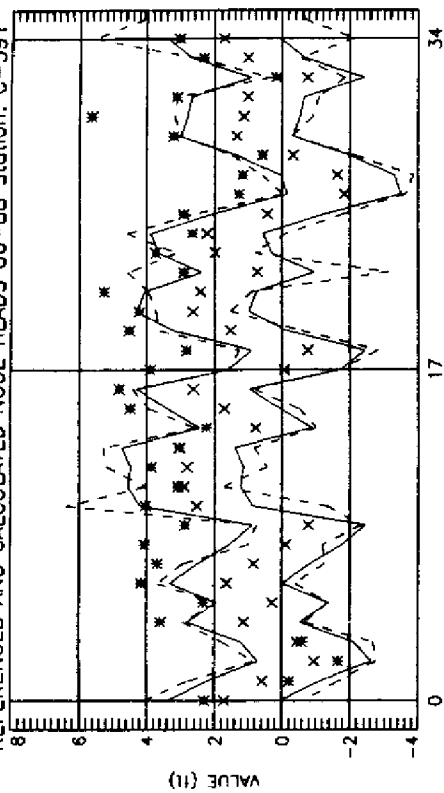






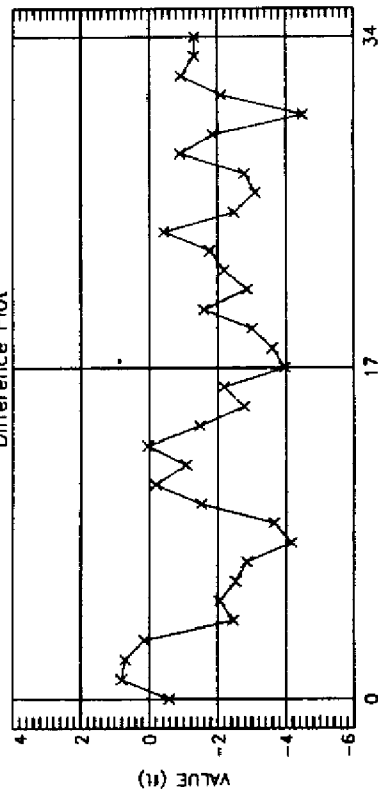


REFERENCED AND CALCULATED NODE HEADS 86-88 Station: C-391



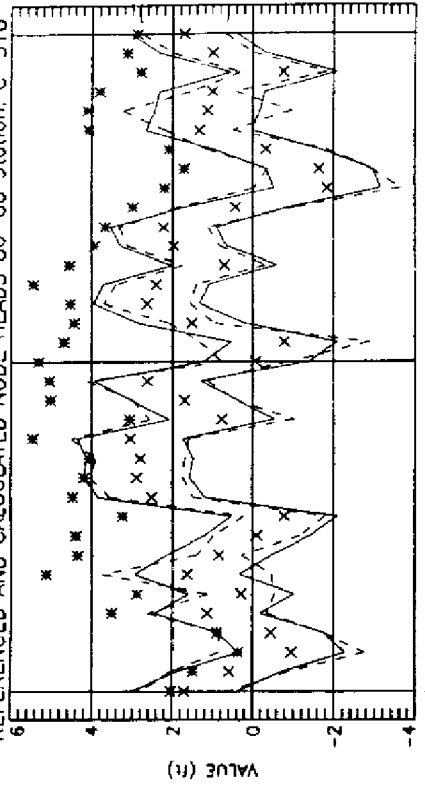
Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De
Layer 2 Row 39 Column 9 Hist.Std.Dev. 1.67 NOTE: Observed * Calculated x

Difference Plot



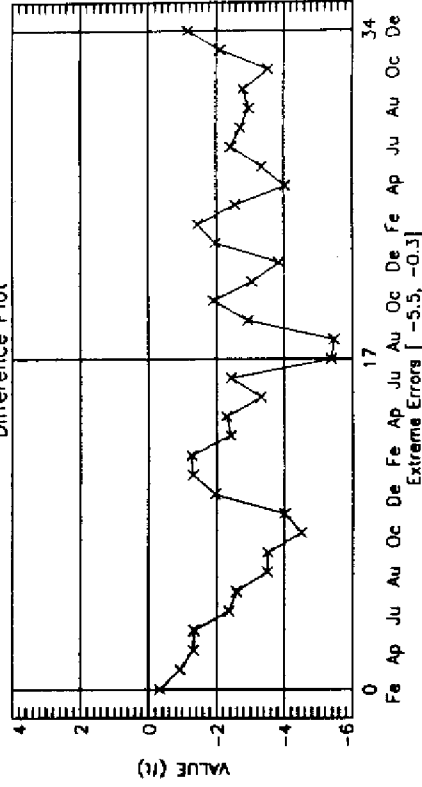
Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De
Extreme Errors [-4.5, 0.8]

REFERENCED AND CALCULATED NODE HEADS 86-88 Station: C-516



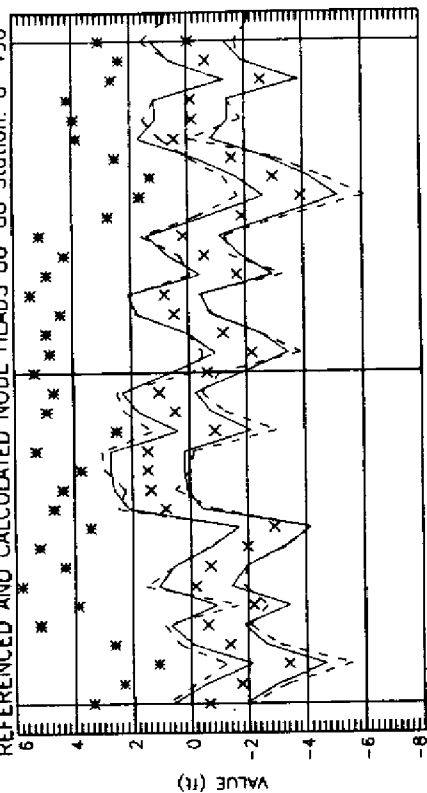
Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De
Layer 2 Row 39 Column 9 Hist.Std.Dev. 1.31 NOTE: Observed * Calculated x

Difference Plot



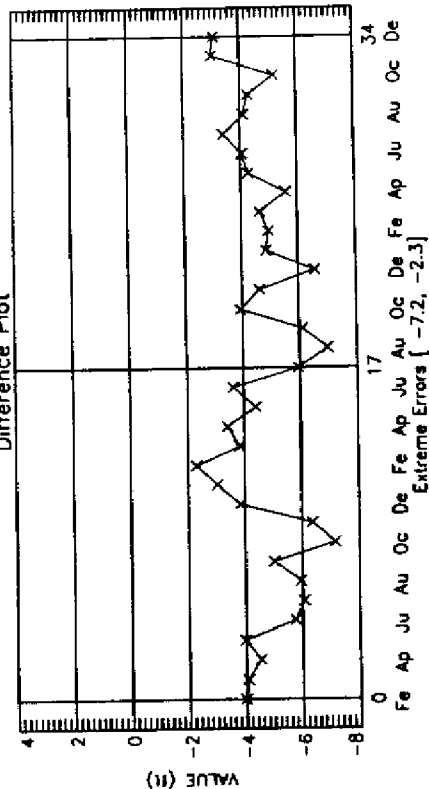
Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De
Extreme Errors [-5.5, -0.3]

REFERENCED AND CALCULATED NODE HEADS 86-88 Station: C-490



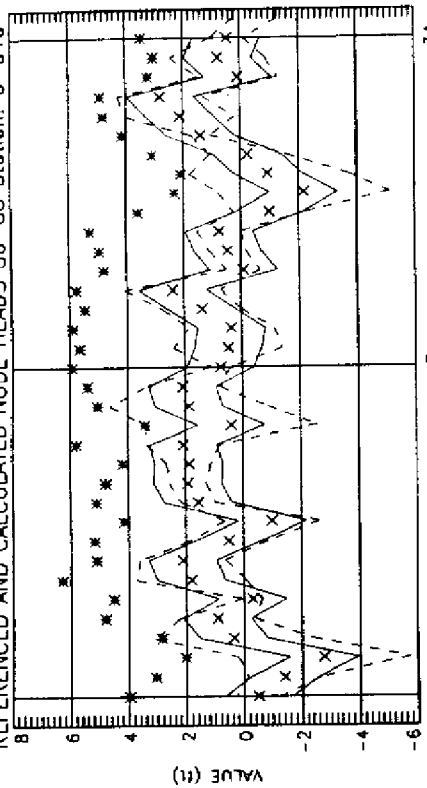
Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De
Layer 2 Row 38 Column 9 Hist.Std.Dev. 1.26 NOTE: Observed + Calculated x

Difference Plot



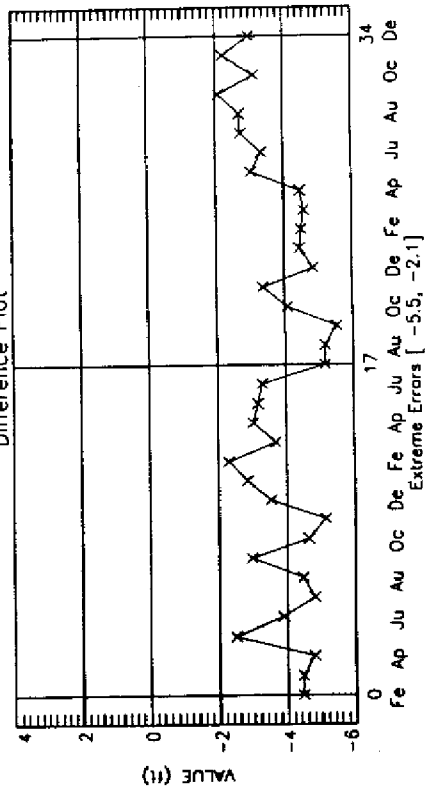
Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De
Extreme Errors [-7.2, -2.3]

REFERENCED AND CALCULATED NODE HEADS 86-88 Station: C-515

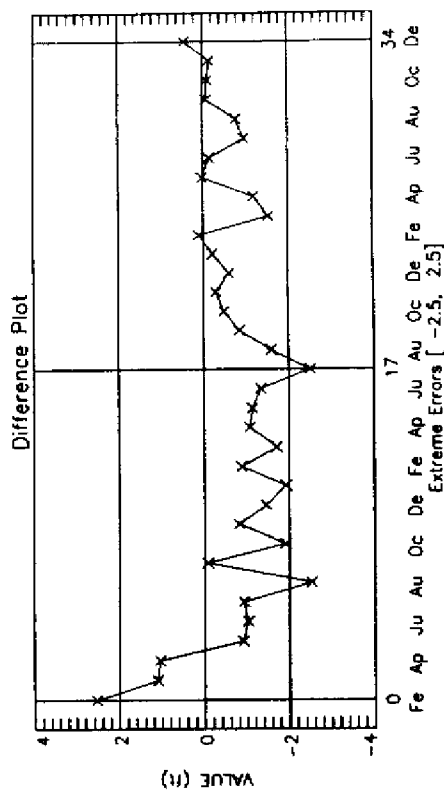
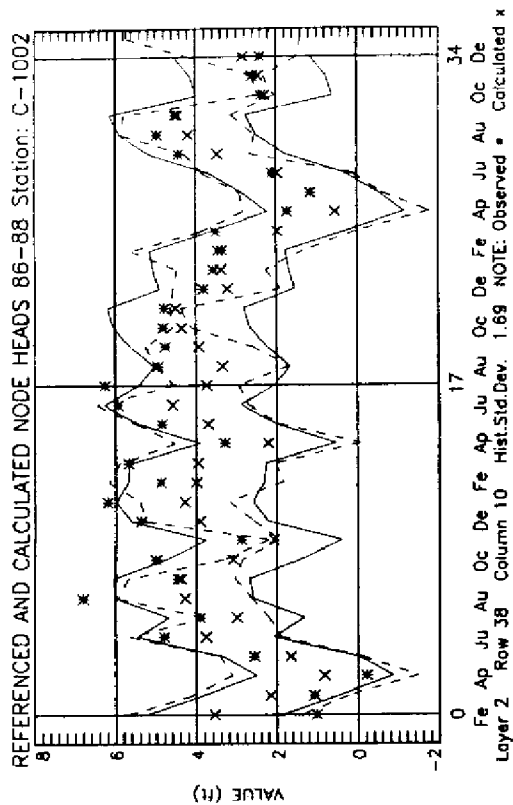
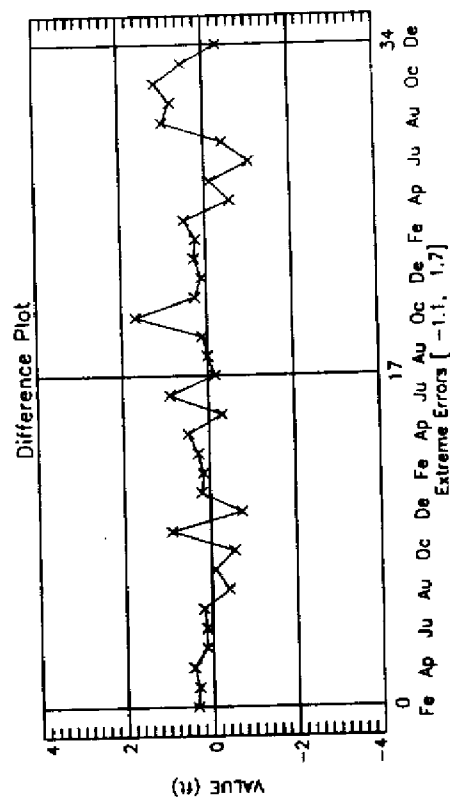
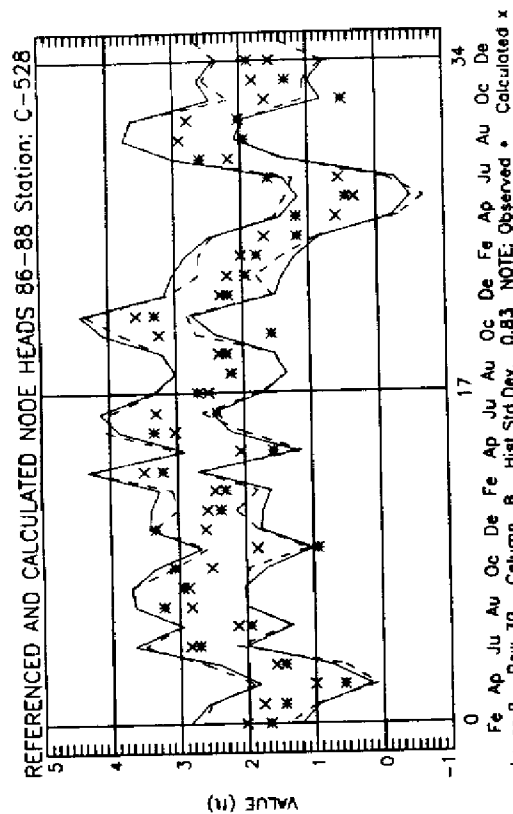


Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De
Layer 2 Row 37 Column 9 Hist.Std.Dev. 1.17 NOTE: Observed + Calculated x

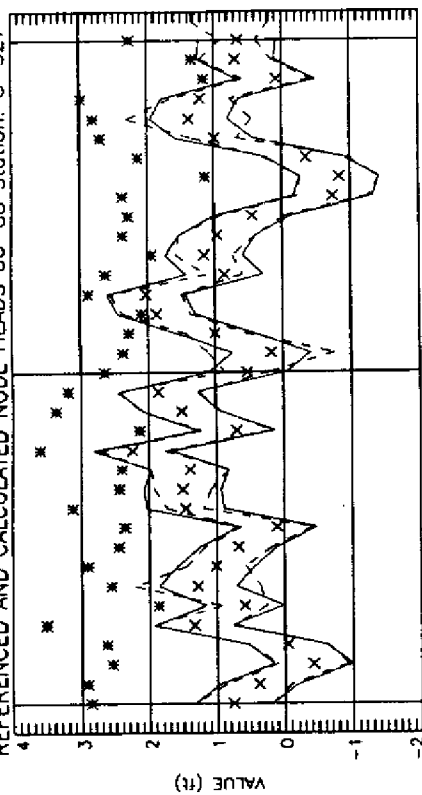
Difference Plot



Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De
Extreme Errors [-5.5, -2.1]

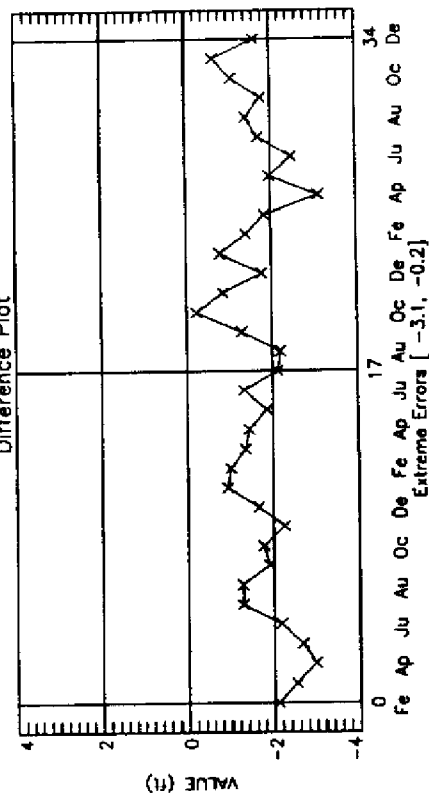


REFERENCED AND CALCULATED NODE HEADS 86-88 Station: C-527



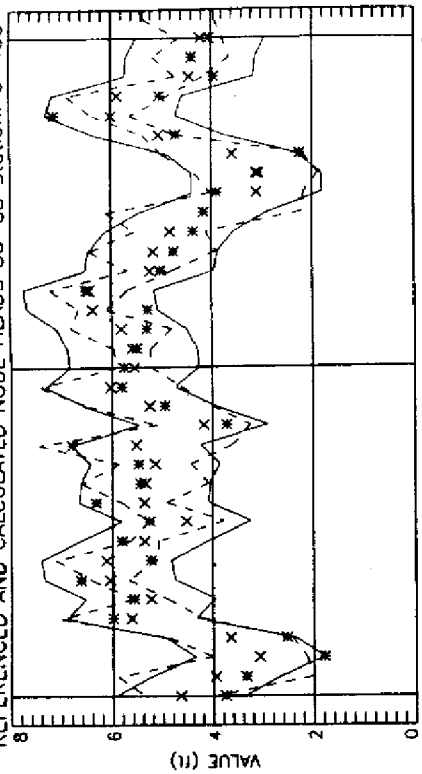
Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De
Layer 2 Row 40 Column 8 Hist.Std.Dev. 0.57 NOTE: Observed * Calculated x

Difference Plot



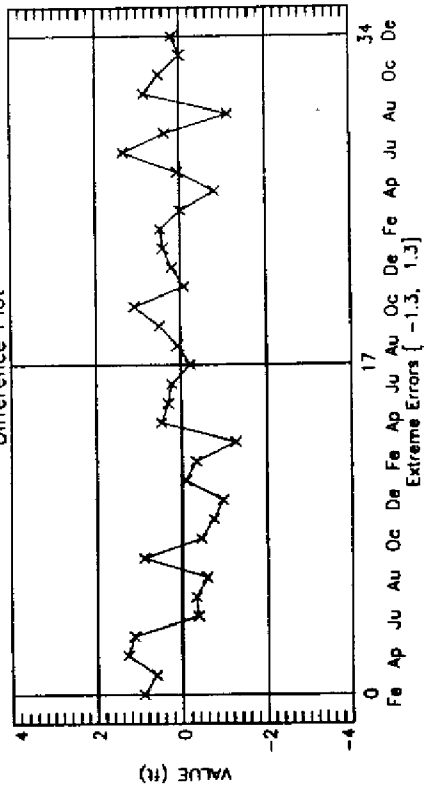
Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De
Extreme Errors [-3.1, -0.2]

REFERENCED AND CALCULATED NODE HEADS 86-88 Station: C-430

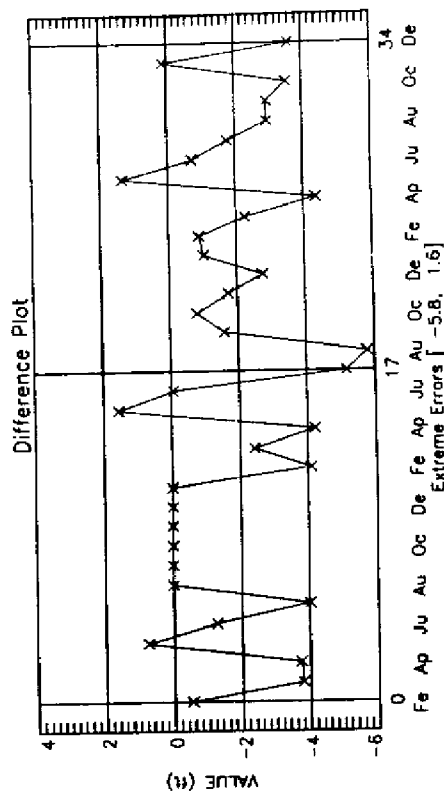
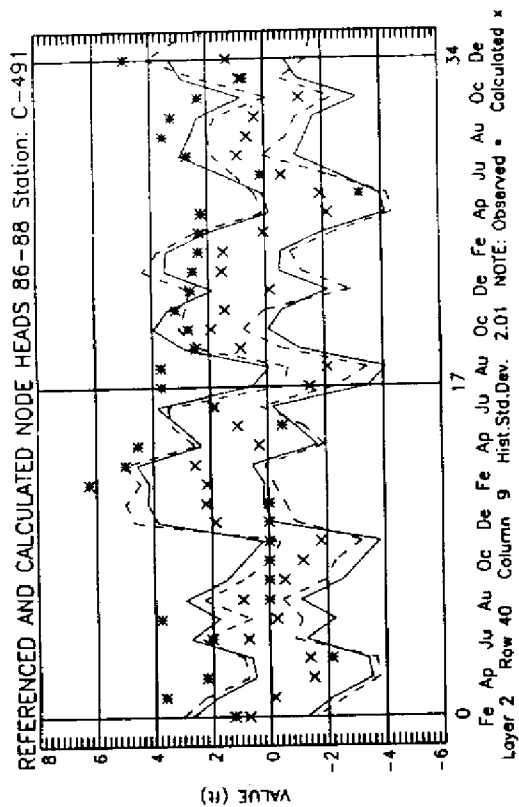
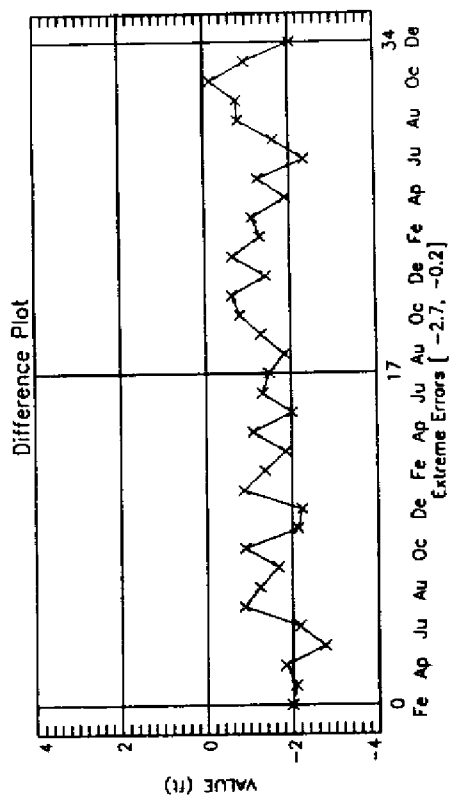
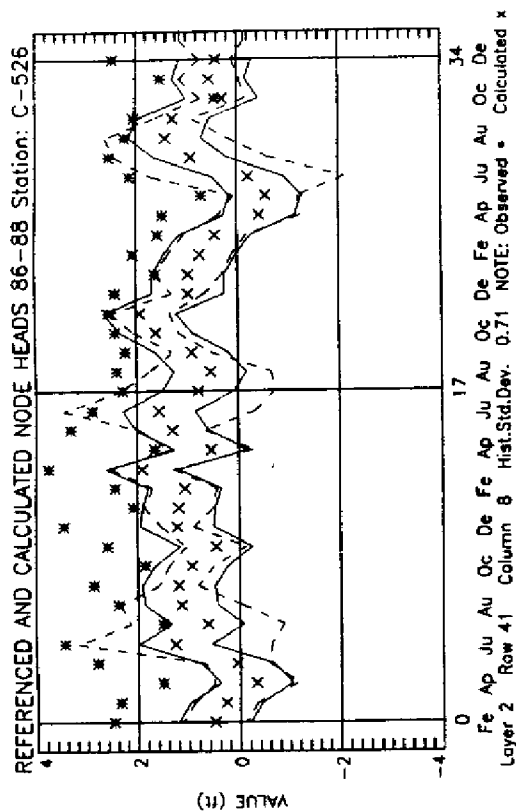


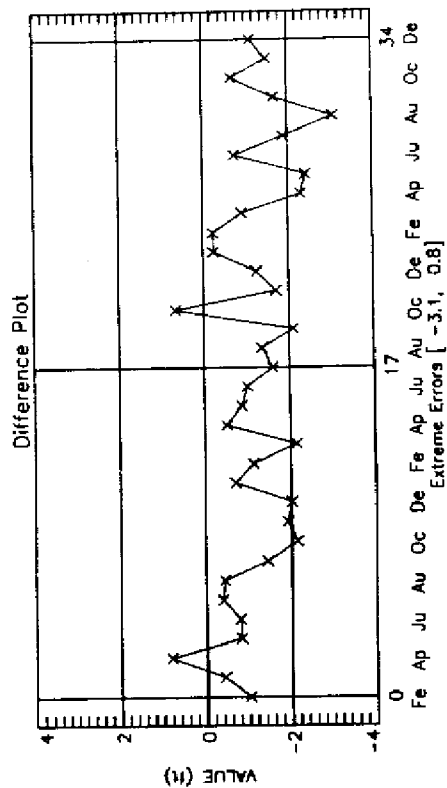
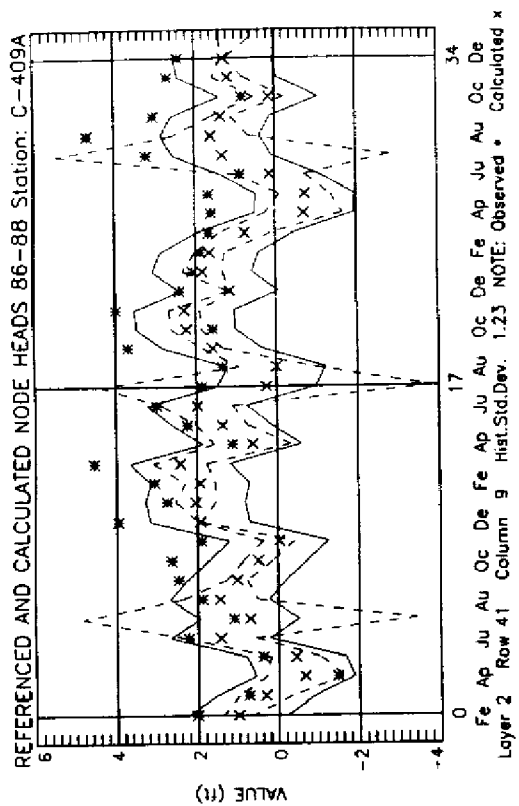
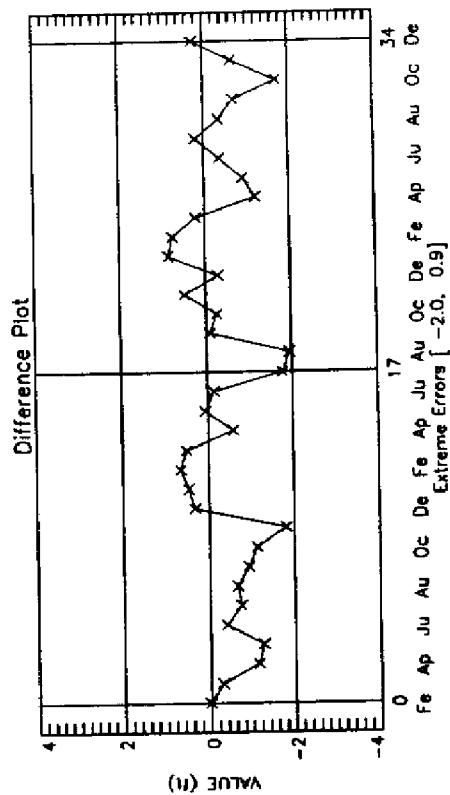
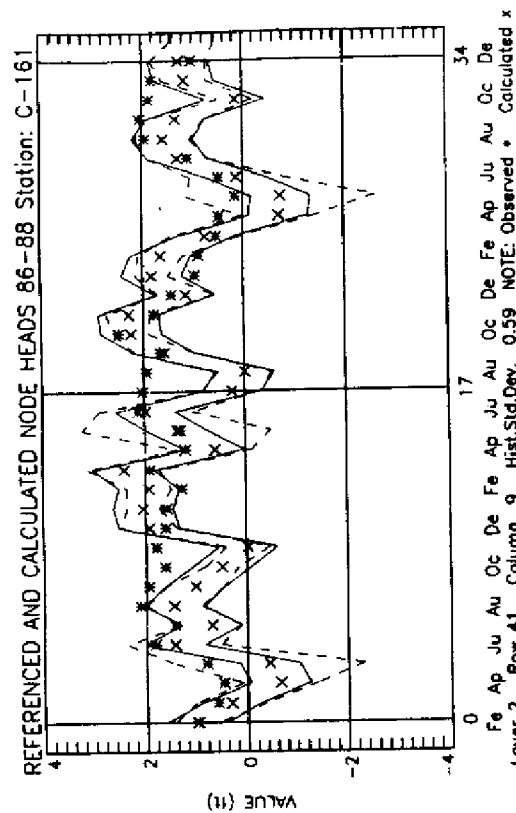
Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De
Layer 2 Row 39 Column 11 Hist.Std.Dev. 1.29 NOTE: Observed * Calculated x

Difference Plot

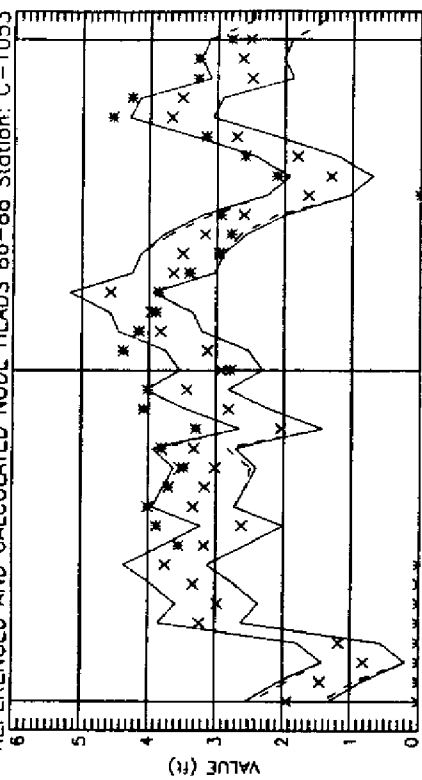


Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De
Extreme Errors [-1.3, 1.3]



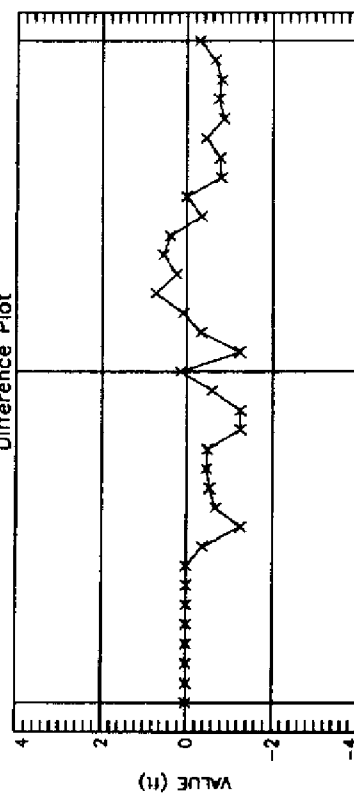


REFERENCED AND CALCULATED NODE HEADS 86-88 Station: C-1053



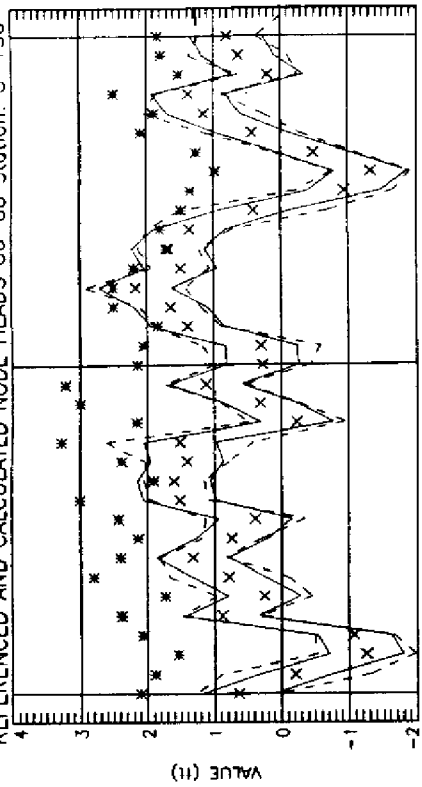
Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De
Layer 2 Row 42 Column 10 Hist.Std.Dev. 0.61 NOTE: Observed * Calculated x

Difference Plot



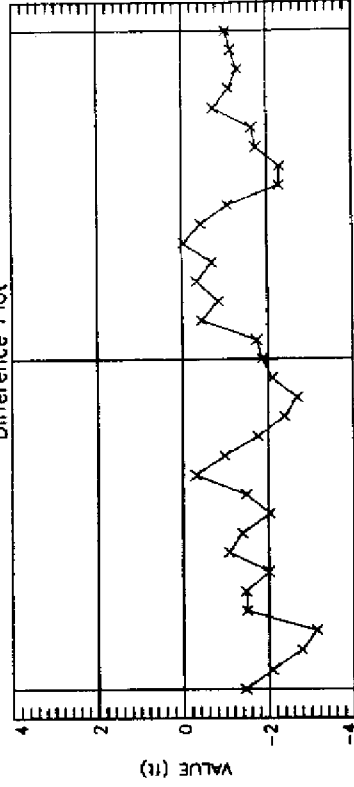
Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De
Extreme Errors [-1.3, 0.7]

REFERENCED AND CALCULATED NODE HEADS 86-88 Station: C-130

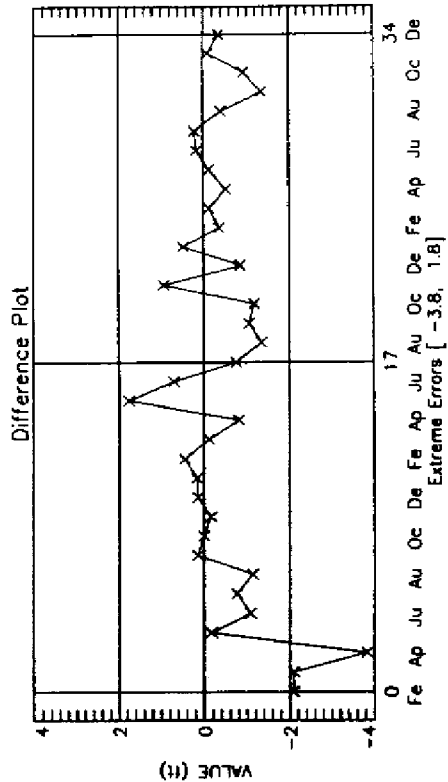
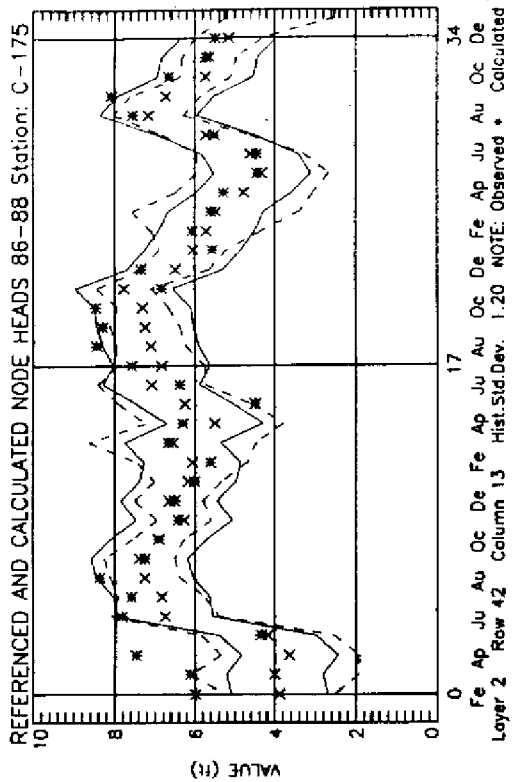
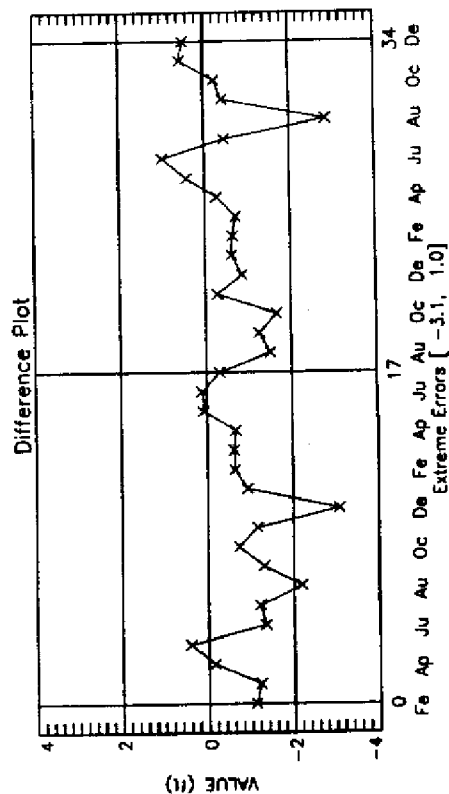
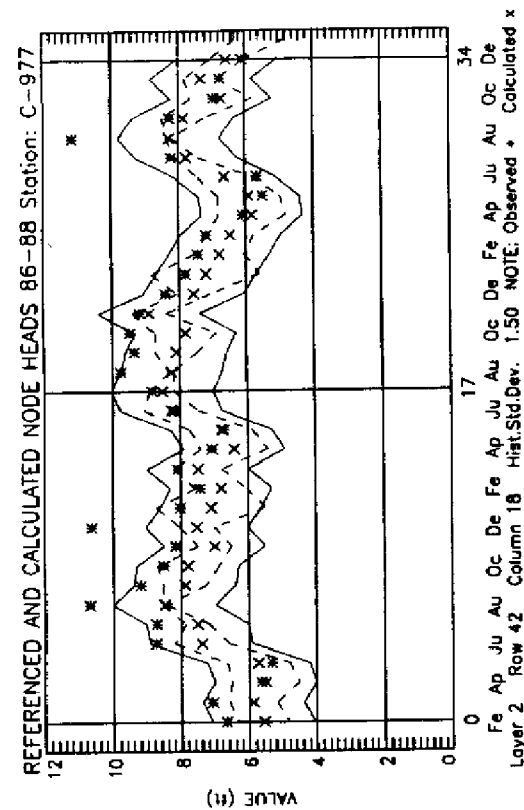


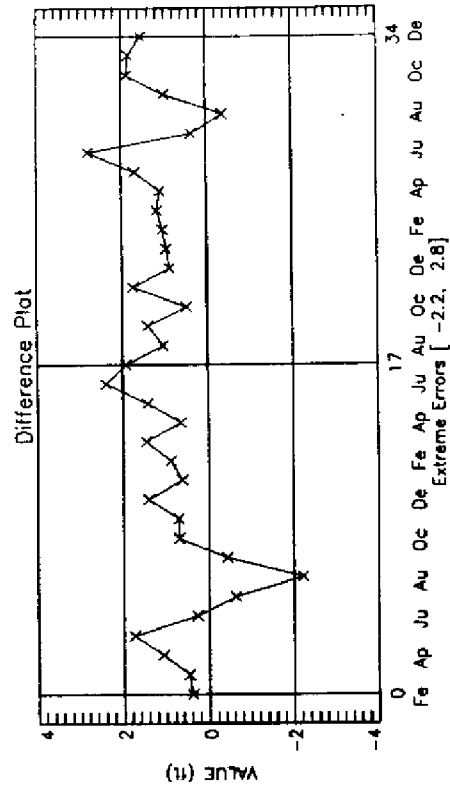
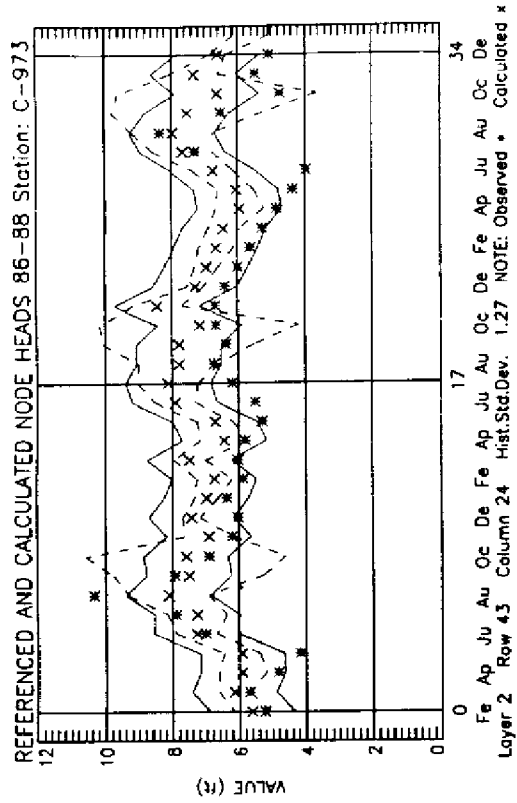
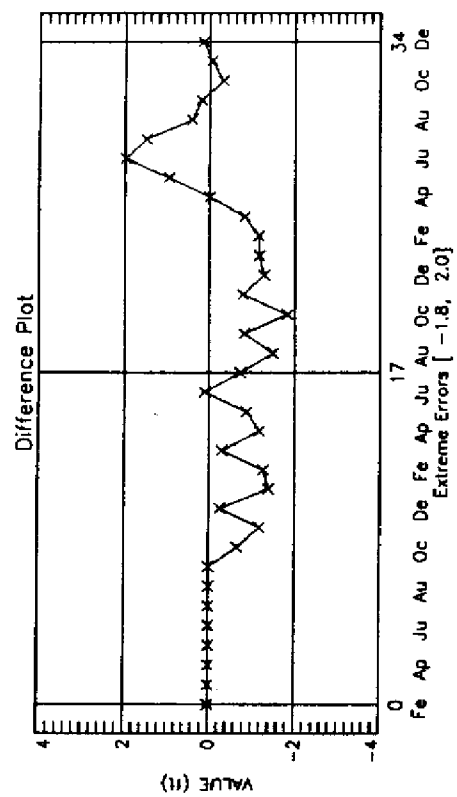
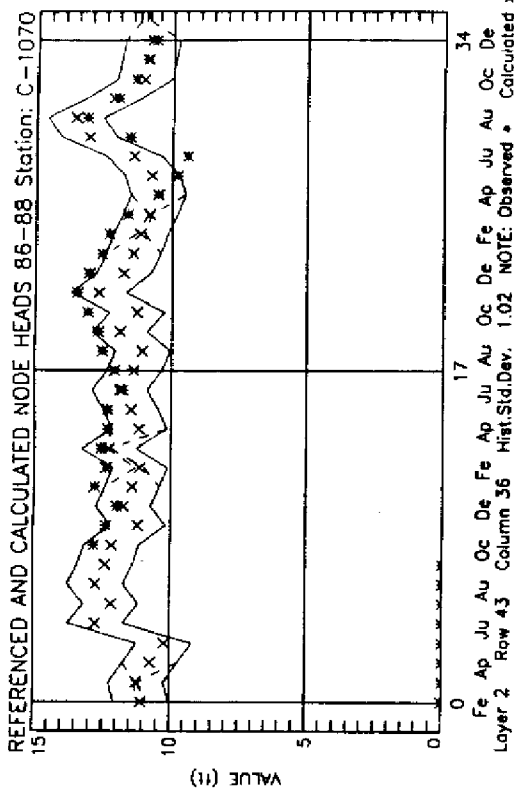
Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De
Layer 2 Row 42 Column 9 Hist.Std.Dev. 0.54 NOTE: Observed * Calculated x

Difference Plot

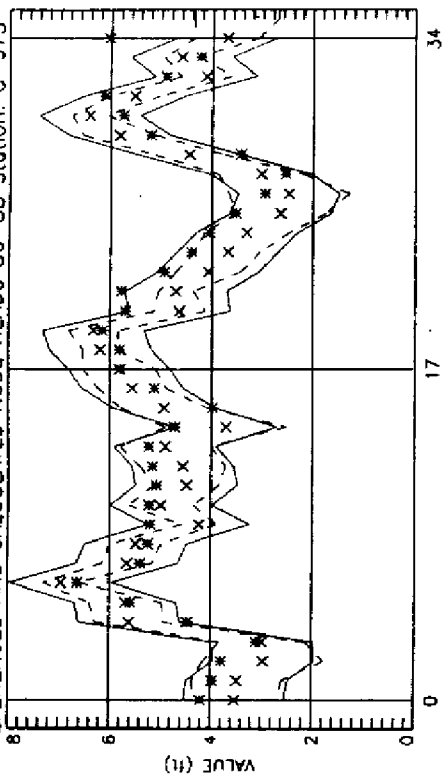


Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De
Extreme Errors [-3.1, 0.0]



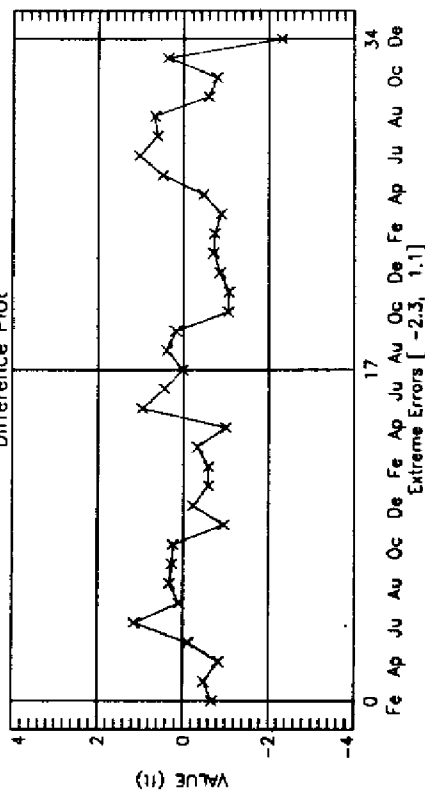


REFERENCED AND CALCULATED NODE HEADS 86-88 Station: C-975



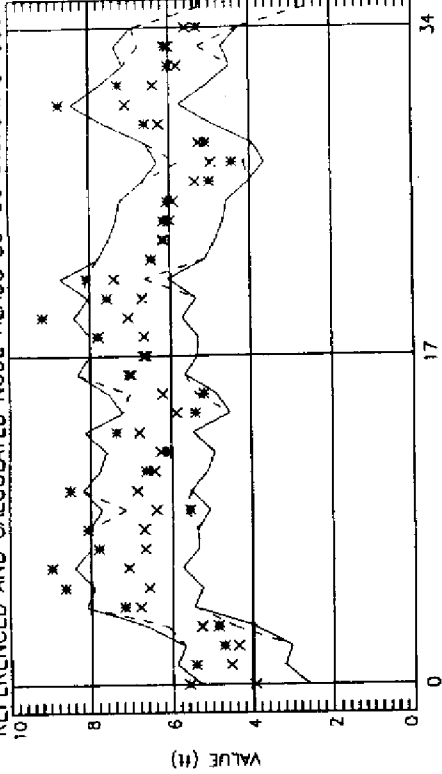
Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De
Layer 2 Row 49 Column 18 Hist.Std.Dev. 1.00 NOTE: Observed * Calculated x

Difference Plot



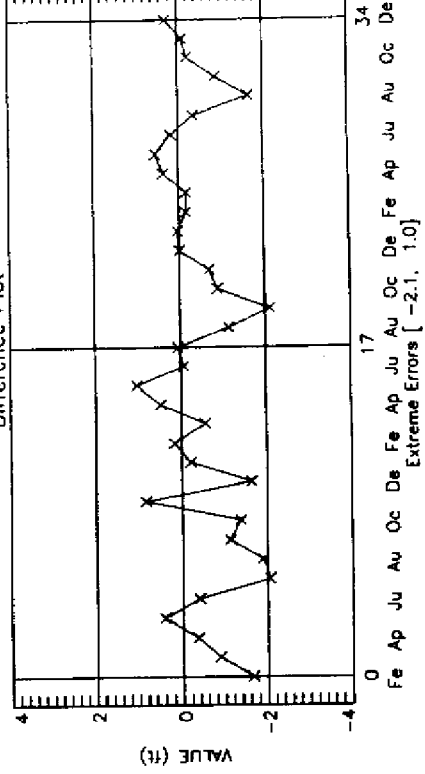
Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De
Extreme Errors [-2.3, 1.1]

REFERENCED AND CALCULATED NODE HEADS 86-88 Station: C-599



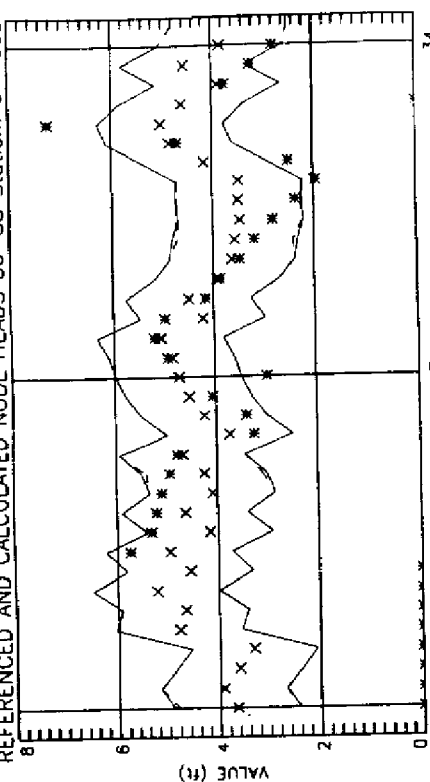
Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De
Layer 2 Row 45 Column 15 Hist.Std.Dev. 1.34 NOTE: Observed * Calculated x

Difference Plot

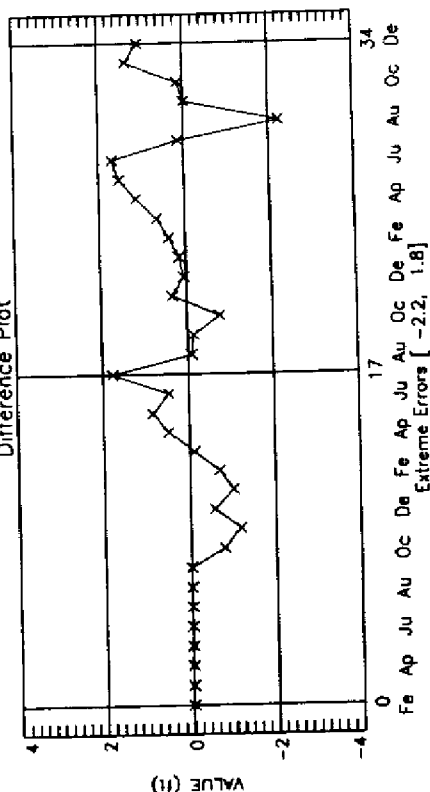


Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De
Extreme Errors [-2.1, 1.0]

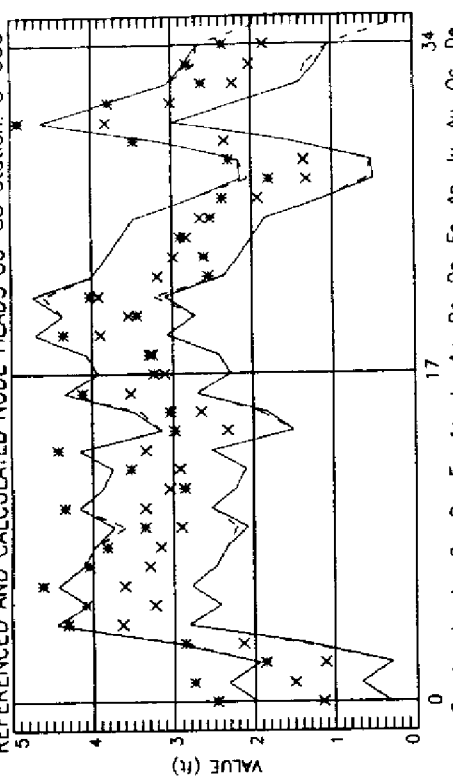
REFERENCED AND CALCULATED NODE HEADS 86-88 Station: C-1068



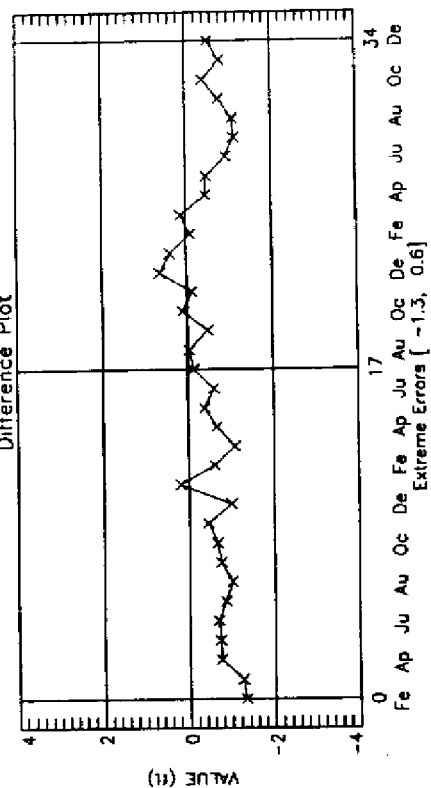
Difference Plot

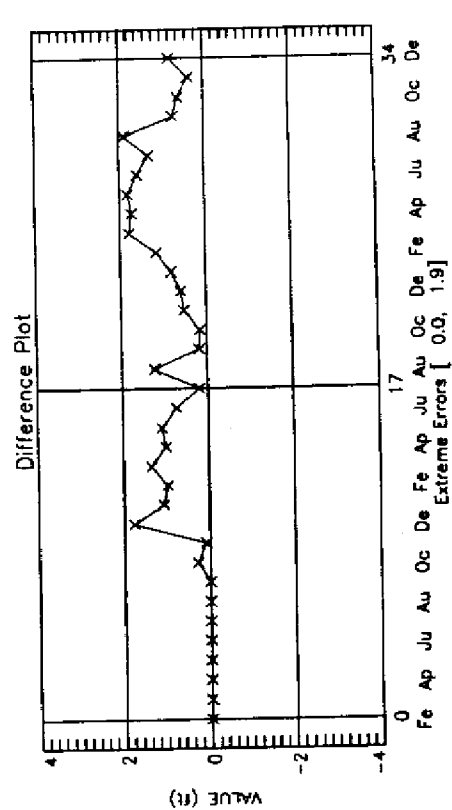
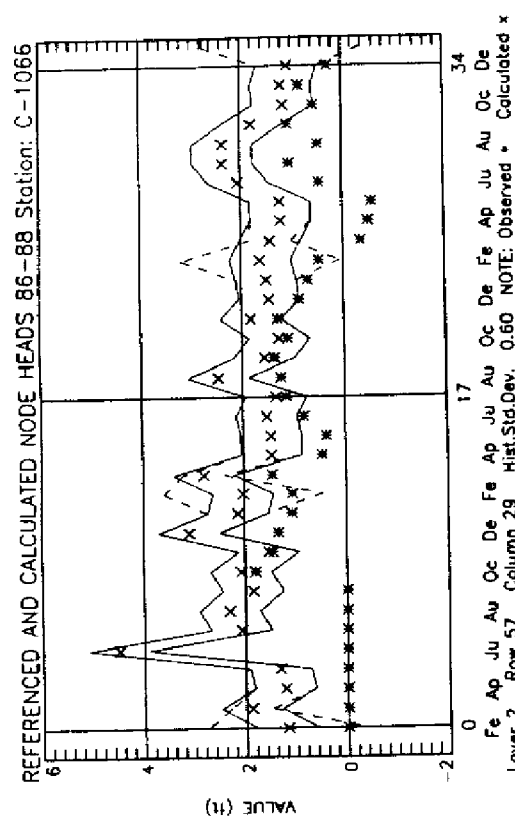
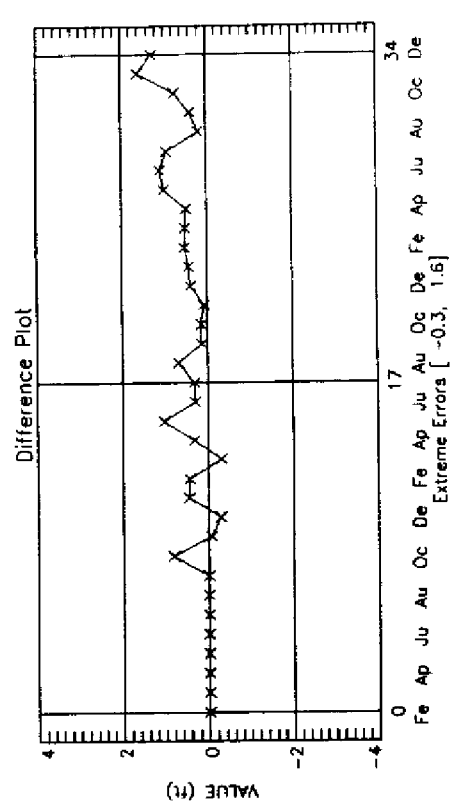
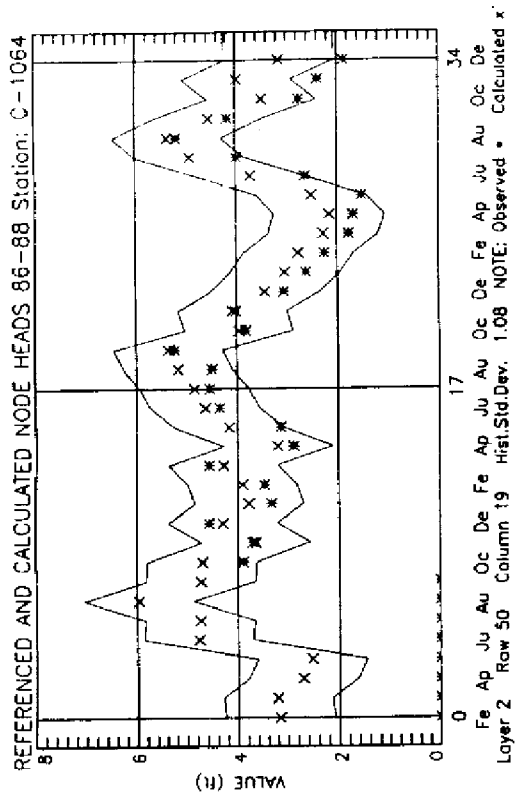


REFERENCED AND CALCULATED NODE HEADS 86-88 Station: C-600



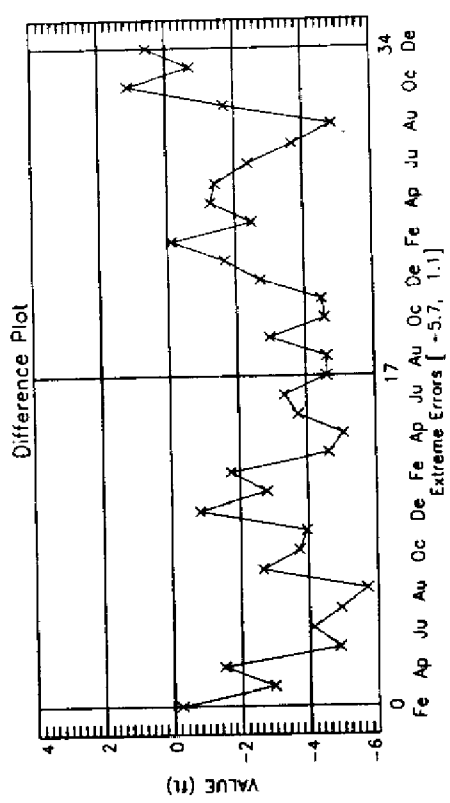
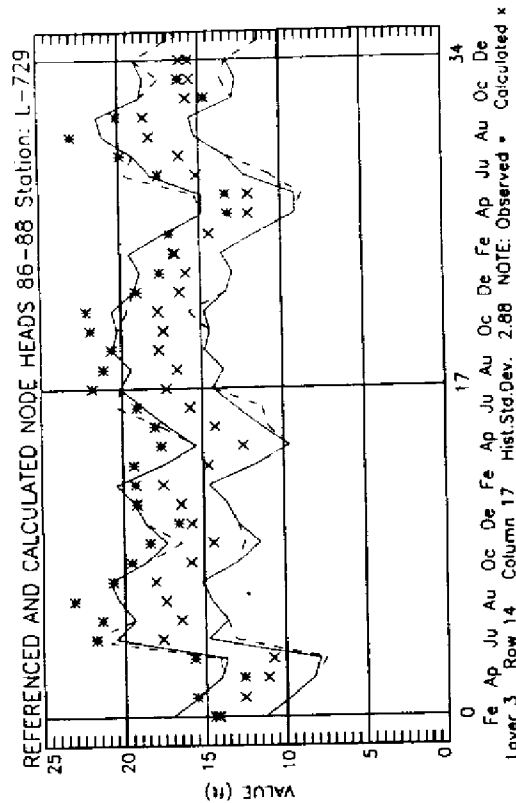
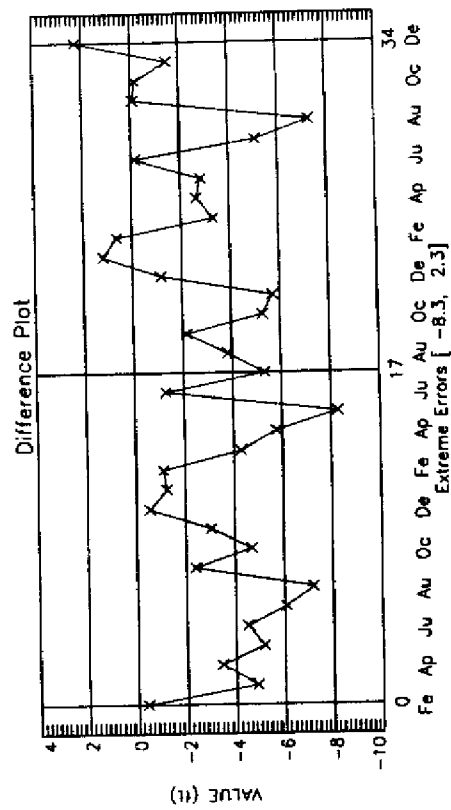
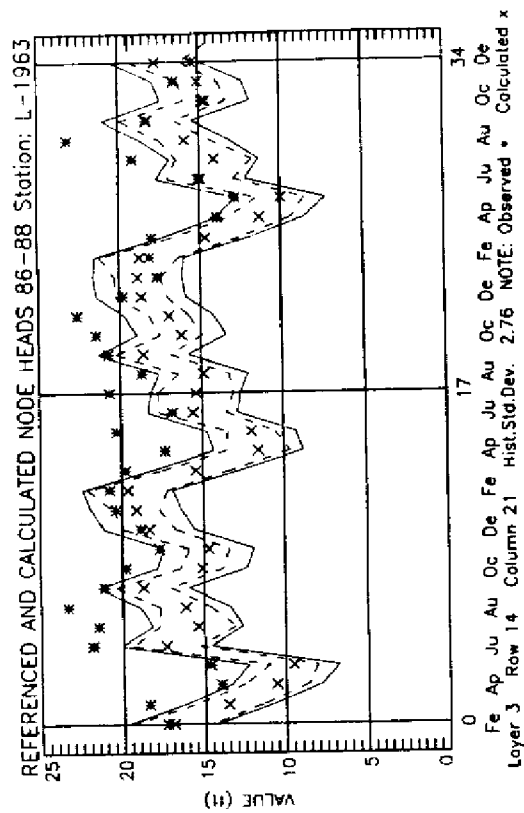
Difference Plot

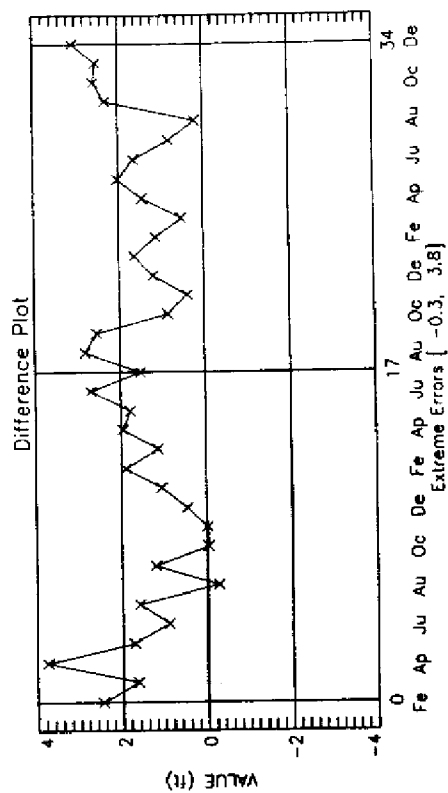
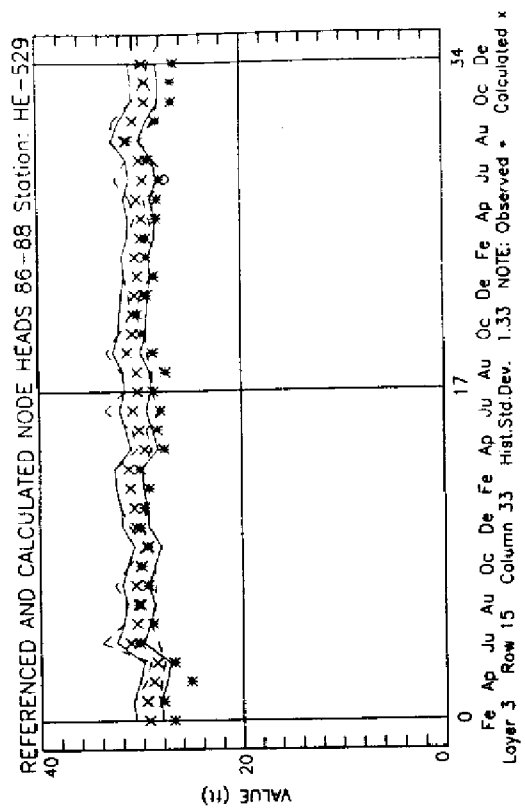
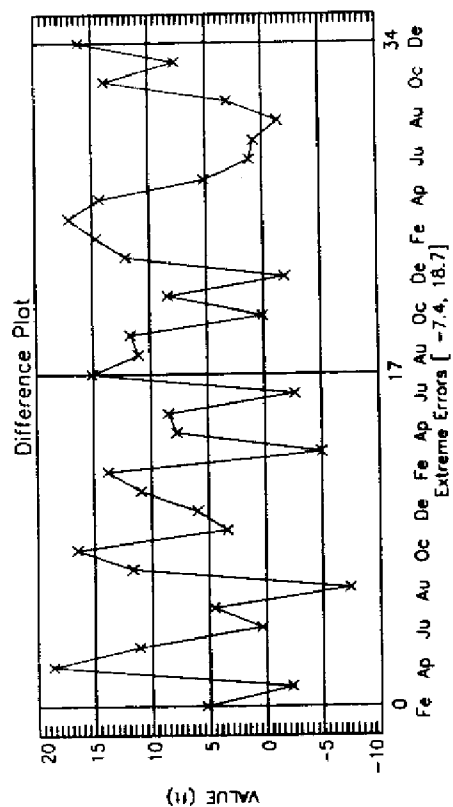
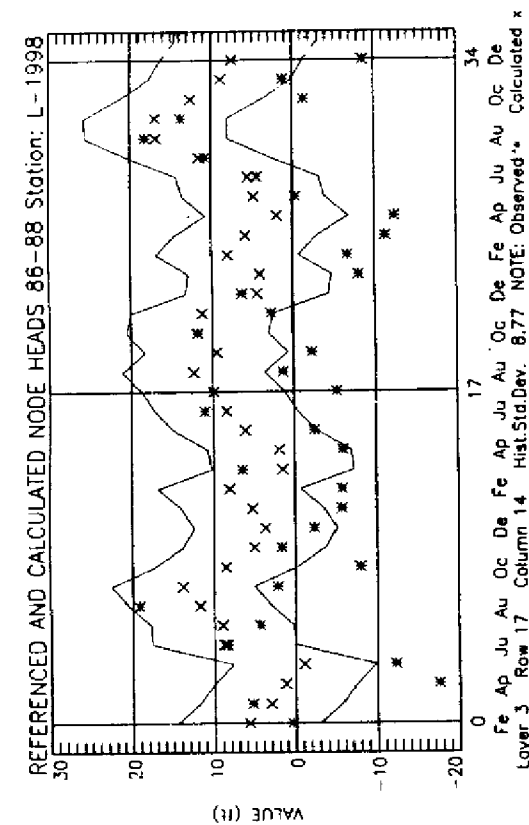


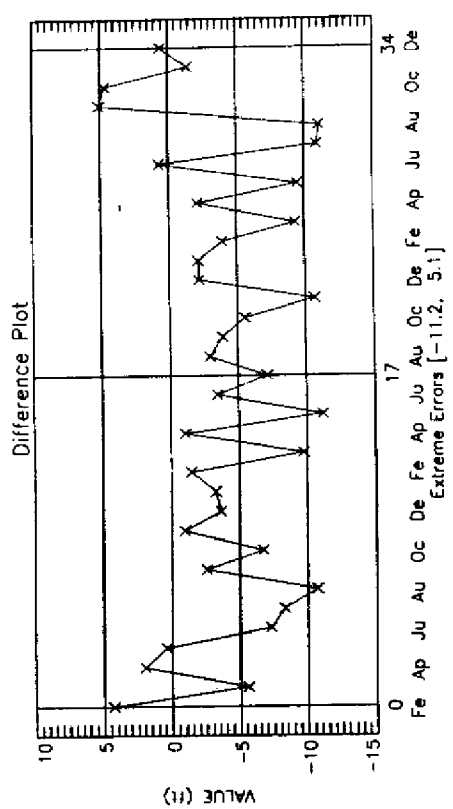
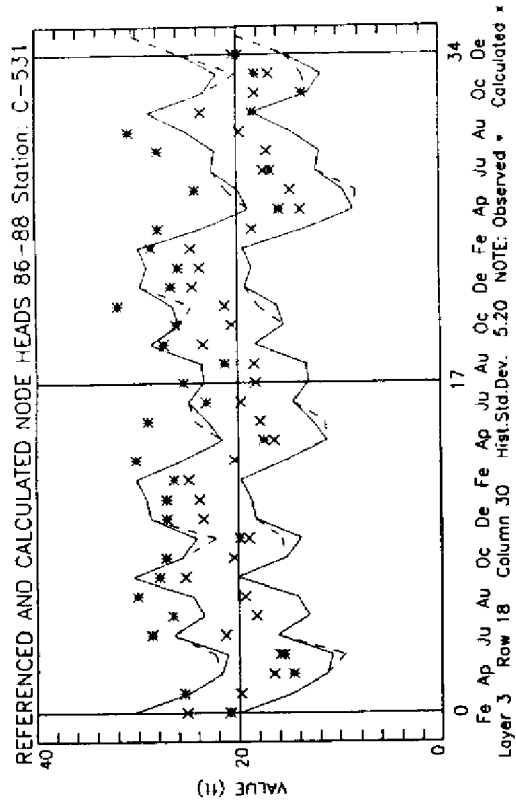
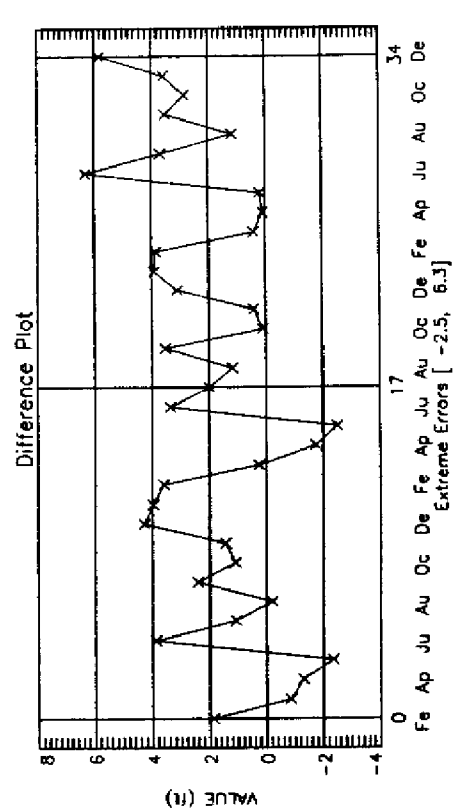
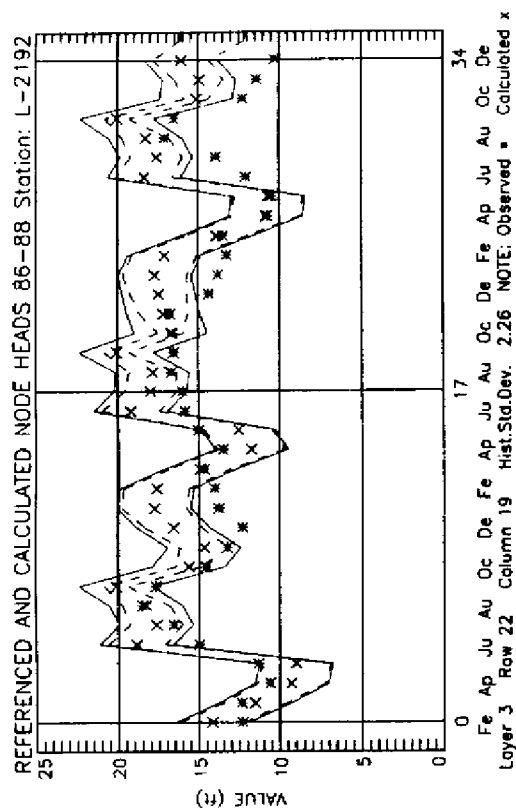


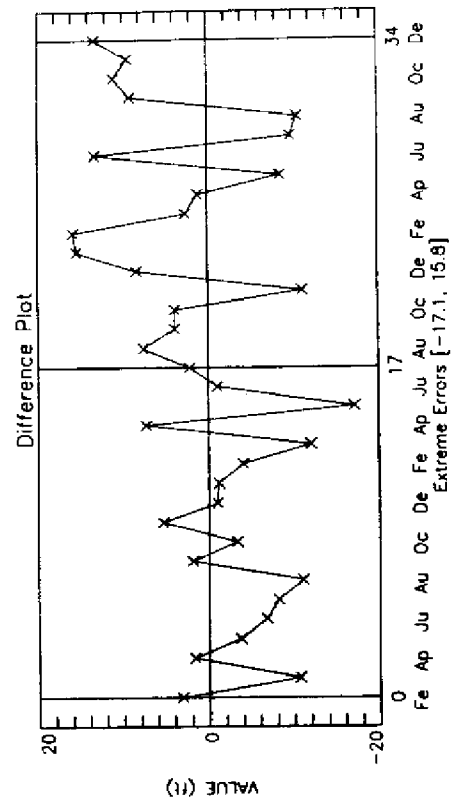
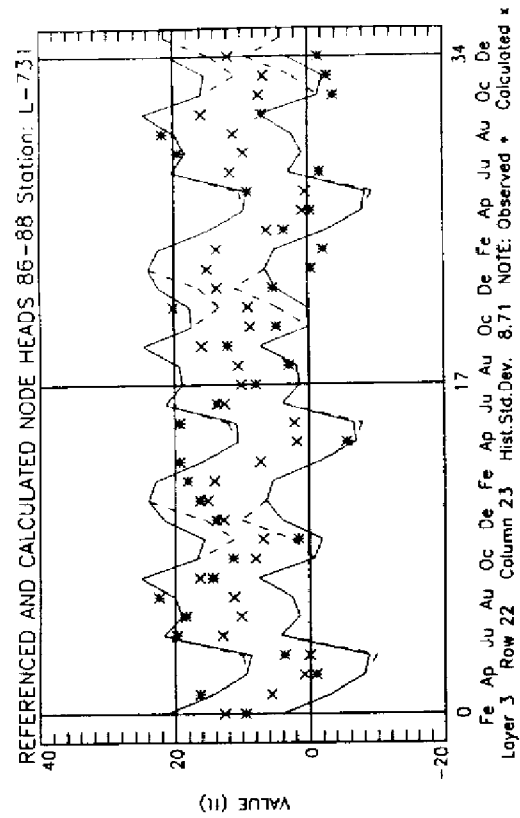
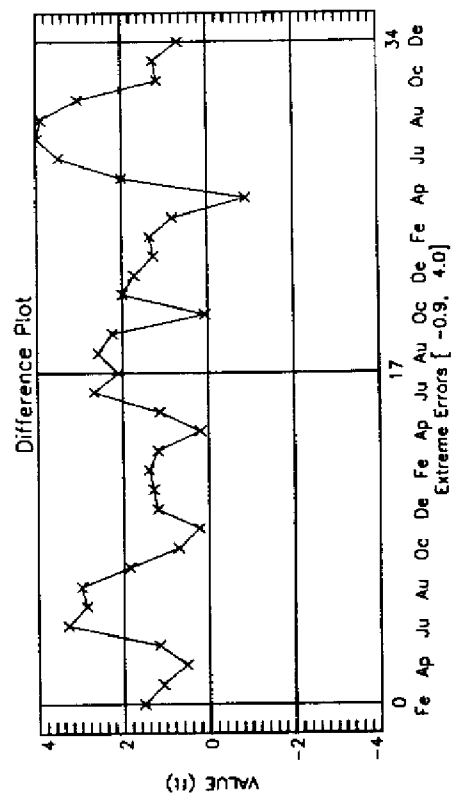
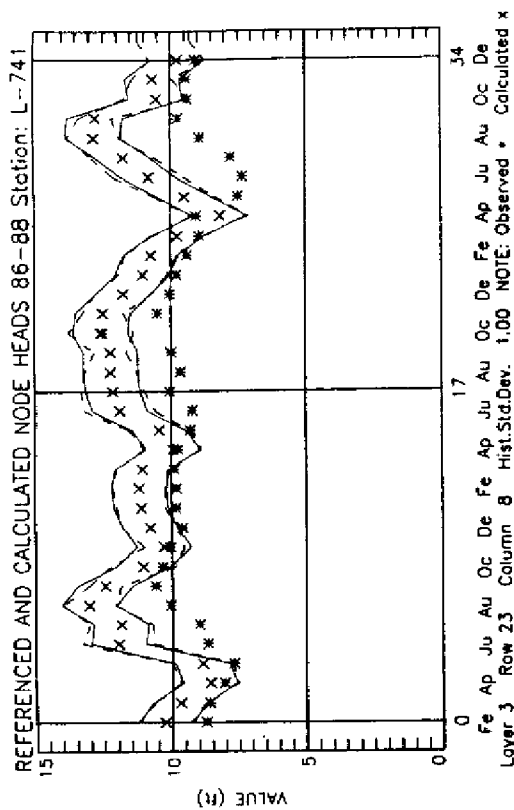
LAYER 3

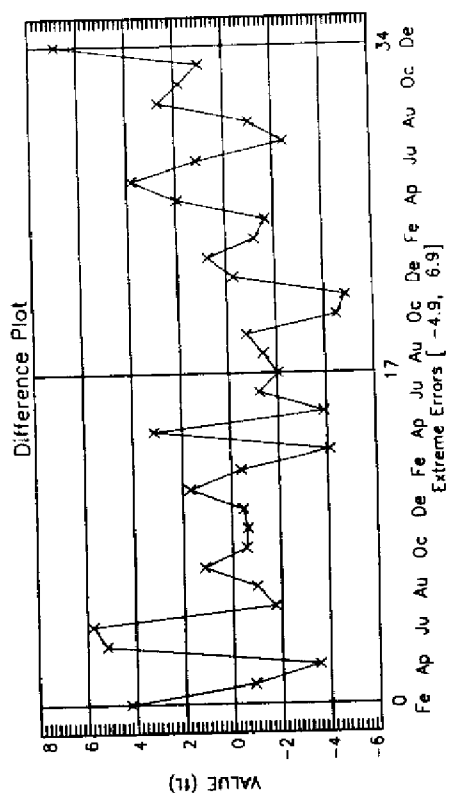
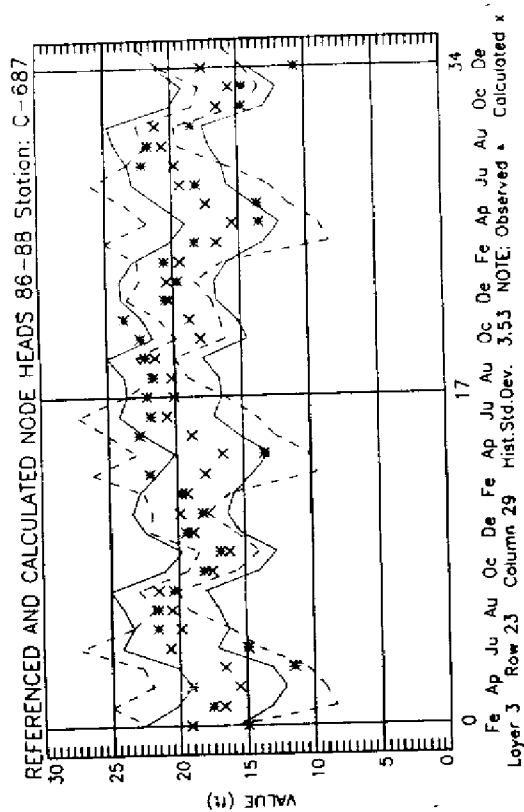
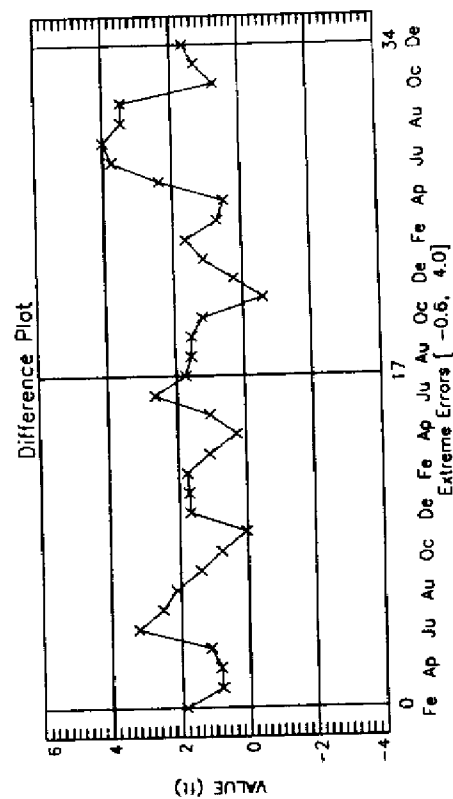
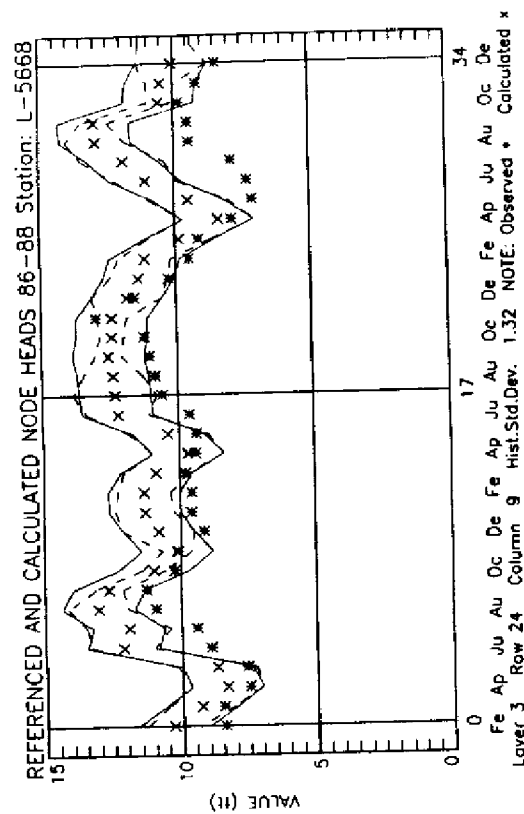
**SANDSTONE AQUIFER
COMPARATIVE HYDROGRAPHS**

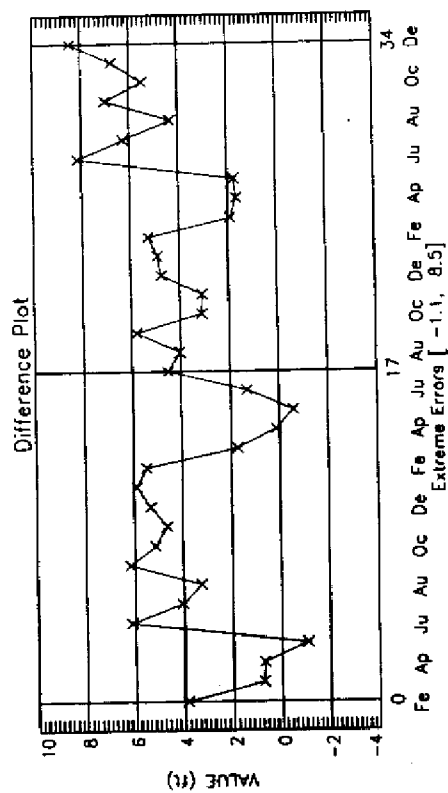
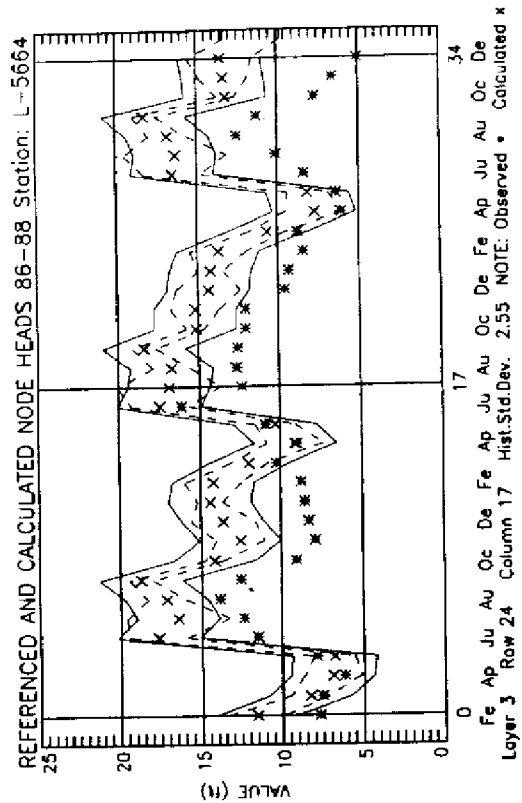
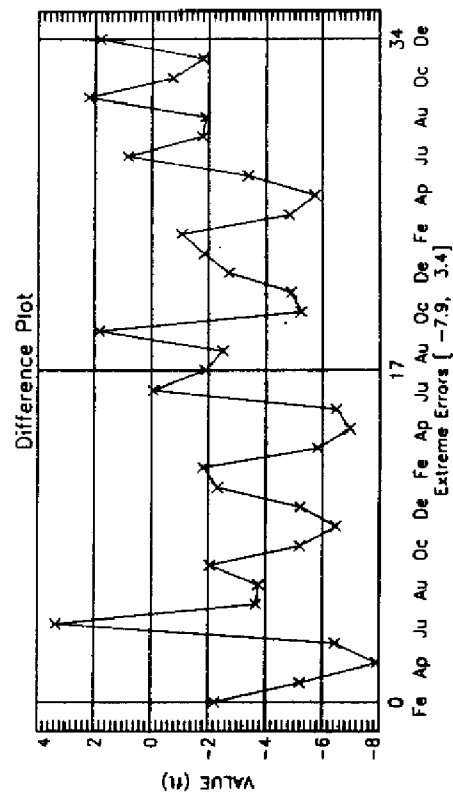
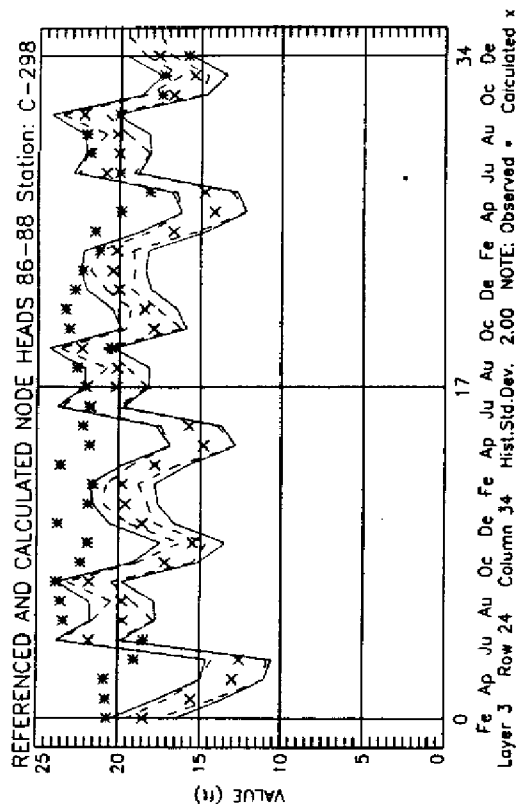


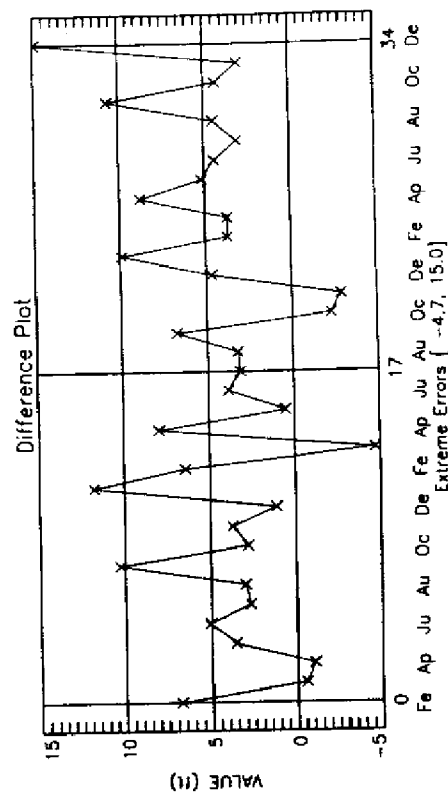
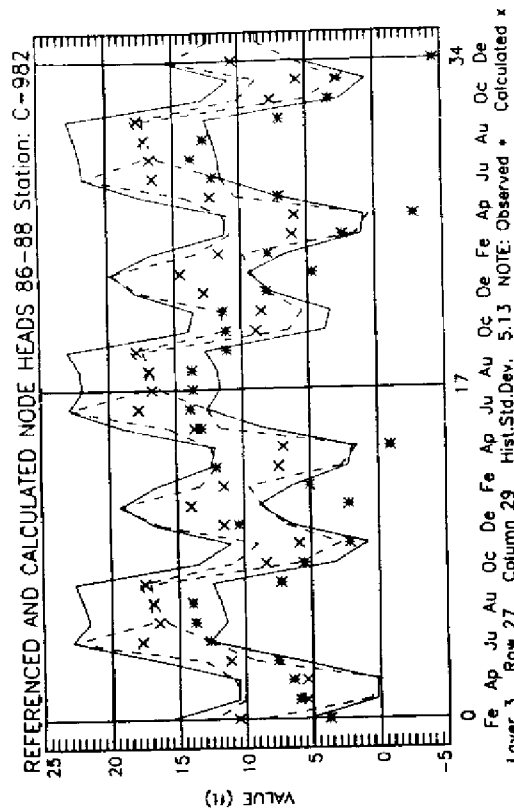
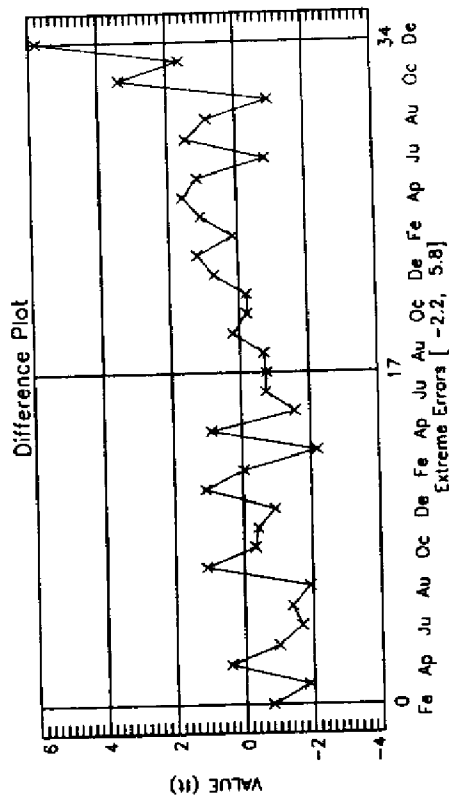
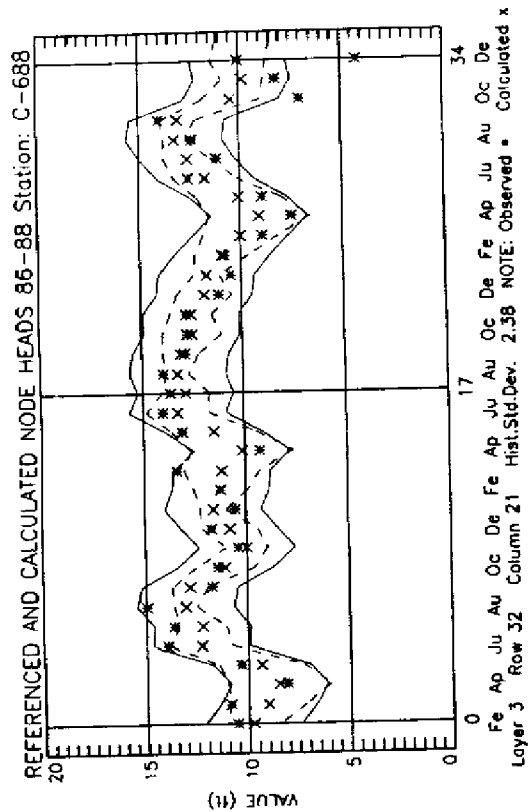




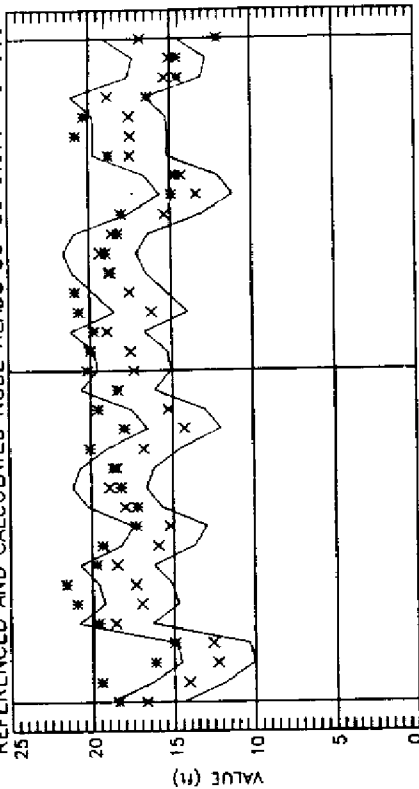






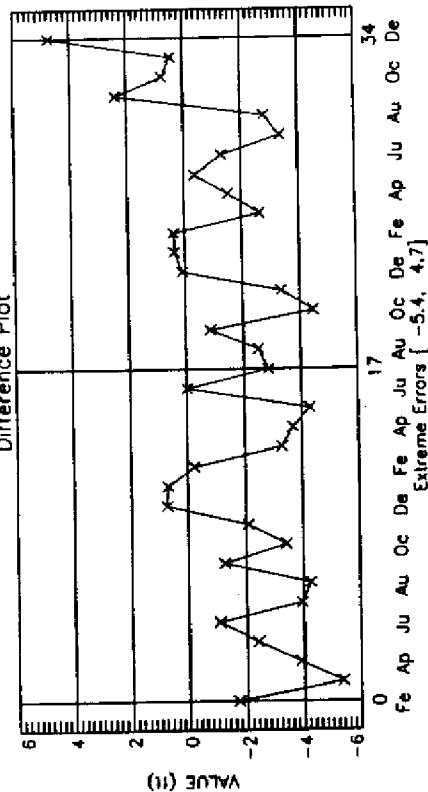


REFERENCED AND CALCULATED NODE HEADS 86-88 Station: C-965



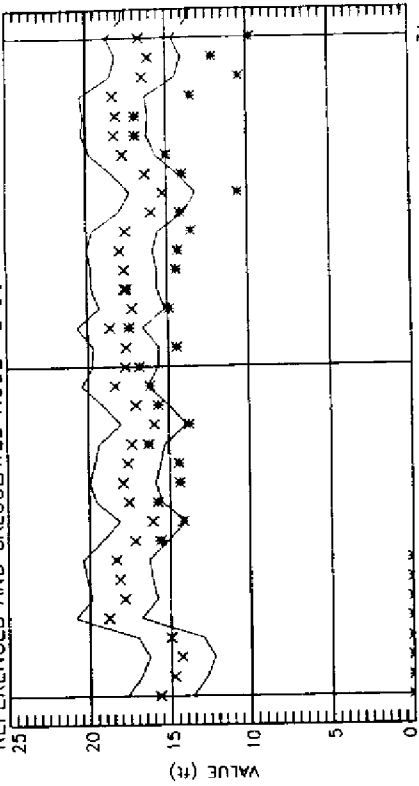
Layer 3 Row 28 Column 37 Hist.Std.Dev. 2.25 NOTE: Observed * Calculated x

Difference Plot



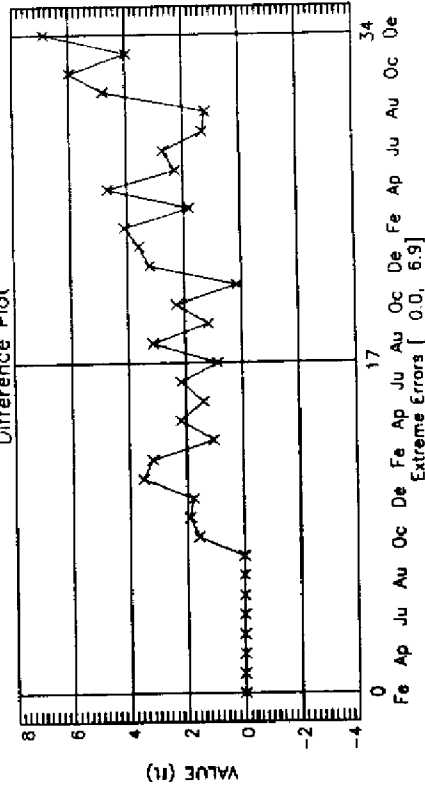
Extreme Errors [-5.4, 4.7]

REFERENCED AND CALCULATED NODE HEADS 86-88 Station: C-1072



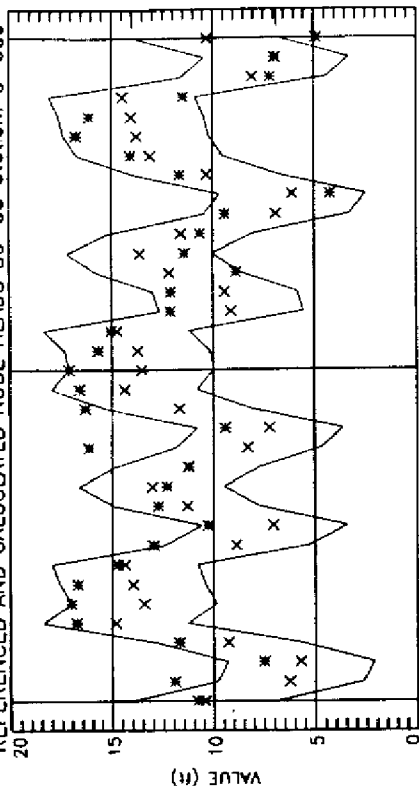
Layer 3 Row 32 Column 40 Hist.Std.Dev. 2.04 NOTE: Observed * Calculated x

Difference Plot



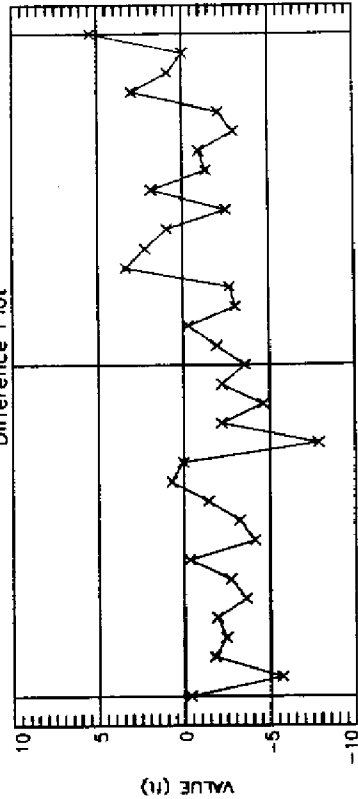
Extreme Errors [0.0, 6.9]

REFERENCED AND CALCULATED NODE HEADS 86-88 Station: C-689



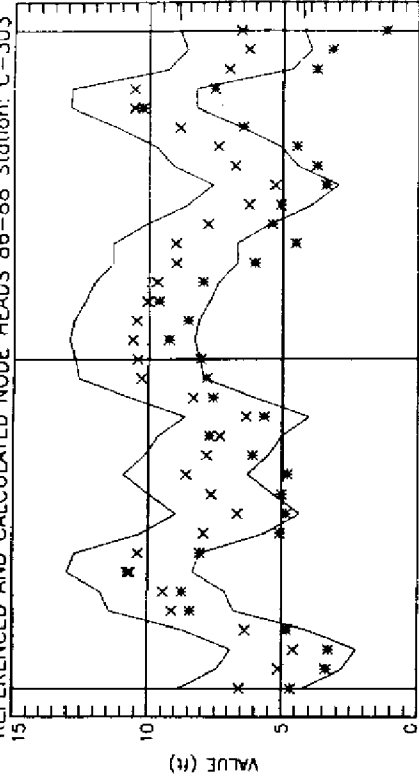
Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De
Layer 3 Row 33 Column 34 Hist.Std.Dev. 3.58 NOTE: Observed * Calculated x

Difference Plot



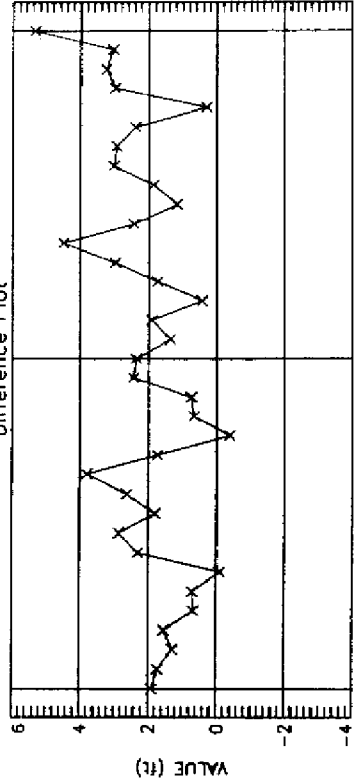
Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De
Extreme Errors [-7.8, 5.4]

REFERENCED AND CALCULATED NODE HEADS 86-88 Station: C-303



Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De
Layer 3 Row 34 Column 15 Hist.Std.Dev. 2.32 NOTE: Observed * Calculated x

Difference Plot



Fe Ap Ju Au Oc De Fe Ap Ju Au Oc De
Extreme Errors [-0.4, 5.3]

LAYER 4

**MID-HAWTHORN AQUIFER
COMPARATIVE HYDROGRAPHS**

