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Agricultural Water Demand Projections

Introduction

Chapter 373, Florida Statutes (F.S.) sets forth requirements for regional water supply planning. In 1998, each water management district completed a district-wide water supply assessment that identifies water demands, and sources of water to meet those demands, over a 20-year planning horizon. Where available water supplies were not expected to meet projected demands, a Regional Water Supply Plan (RWSP) was developed. The Governing Board of the Southwest Florida Water Management District (SWFWMD or District) determined the need for a RWSP in the southern ten counties of the District, and the District produced its first RWSP in 2001. Legislation requires that the determination of the need for a RWSP be made every five years. Accordingly, in 2003, the Governing Board determined the need for a RWSP in the same ten-county area. In preparing the demand projections for the ten-county region, District staff decided to develop demand projections for the entire District. Guidance for developing projections is contained in the publication *Final Report: Development and Reporting of Water Demand Projections in Florida's Water Supply Planning Process for the 2005 Water Supply Plan, September 2001*. The guidance document was produced by the Water Demand Projection Subcommittee of the Water Planning Coordination Group. This group includes representatives from the Florida Department of Environmental Protection and each of the five water management districts.

The District's water use has been categorized as Agricultural, Recreational/Aesthetic, Public Supply, Industrial/Commercial, and Mining/Dewatering. This paper details those actions taken and methodologies utilized to develop the projections for the Agricultural component of the Water Supply Assessment.

Reporting Conventions

In accordance with reporting guidelines, agricultural irrigation use is reported for irrigated acreage by crop category as shown below:

- Citrus
- Cucumbers
- Field Crops
- Melons
- Nurseries
- Other Vegetables and Row Crops
- Pasture
- Potatoes
- Sod
- Strawberries
- Tomatoes
- Miscellaneous

Projected water uses associated with 'Miscellaneous' (*i.e.*, non- irrigated) agricultural operations include aquaculture, dairy, cattle, poultry, and others.

In accordance with reporting conventions, projected water needs are presented under these two identified water use scenarios:

- average annual effective rainfall conditions (5-in-10 year scenario)
- a 1-in-10 drought year scenario (an event that results in an increase in water demand of a magnitude that would have a 10 percent probability of occurring during any given year)

General Discussion of Methodology

In accordance with the 2001 Water Demand Projection Subcommittee guidelines, water use projections for irrigated crop reporting categories were determined by multiplying projected irrigated crop acreage by their respective irrigation requirements. Acreage projections through the year 2025 were formulated based on a cumulative review of the information provided by the sources identified in the following section using a base year of 2000. For those counties that are not located wholly within the District (*i.e.*, Levy, Lake, Marion, Charlotte, Highlands, and Polk), only the portion of the crop acreage located within the District was considered.

Crop irrigation requirements were derived using the District's agricultural water use allocation program (AGMOD), which incorporates typical site-specific conditions for each crop, including location, climatology, soil type, irrigation system, and growing season(s).

Planning level water use projections were developed for average annual effective rainfall conditions and for a 1-in-10-drought year scenario.

For purposes of this analysis, the following assumptions were made with regard to crops included in the 'Vegetables, Melons, and Berries' category:

- All crops in the 'Vegetables, Melons, and Berries' category except for potatoes were assumed to be grown on plastic mulch. Although it is recognized that this is not entirely true for all operations in the District (*e.g.*, some melon acreage), the impact of this assumption on the overall water use projections is not believed to be significant.
- Irrigation allocations for all crops grown on plastic mulch were calculated assuming zero effective rainfall. The result of this assumption is that projected water use needs for mulched crops are the same under both the 5-in-10 (average annual) and 1-in-10 drought year scenarios.
- Irrigation allocations for all crops grown on plastic mulch include quantities for crop establishment.

All of the foregoing assumptions are believed to be reasonable in the context of mulched crop operations and were made out of an abundance of caution from a water user's perspective. The foregoing assumptions also are consistent with the District's reporting methodology in the 2001 RWSP.

General Description of Information Sources

In 2004, the District contracted with the University of Florida Institute of Food and Agricultural Sciences (IFAS) to provide projected acreages used for some of the crops within the District (Taylor, Reynolds and Hughes, 2004). IFAS uses a model that examines historic acreages provided by the Florida Agricultural Statistics Service (FASS) and future projected populations developed by the Bureau of Economics and Business Research (BEBR) in addition to several other factors. Other information sources included the Florida Department of Agriculture and Consumer Services (FDACS), multiple county Cooperative Extension Service offices, the District's Regulatory Database, the 2002 Census of Agriculture, county property appraiser offices, the 1999 Florida Land Use, Land Cover and Forms Classification System (District's G.I.S. database), and the United States Department of Agriculture.

This document contains the information and assumptions used to prepare agricultural acreage projections. In many instances, precise acreage projections for many crops are not available on an individual county basis. Such information is supplied by growers only under the condition that the county in which it is grown is not identified. In addition, available sources of acreage data have significantly decreased since the previous projections were formulated.

The acreage projections included in this report were compiled based on the information accumulated from all of the sources noted above and may warrant adjustments based on public input from the agricultural community. Searching for alternative data sources and development of alternative methodologies are recommended, and the District will embark on such a project in 2006.

Explanation of Projected Agricultural Acreages by Crop

CITRUS

Citrus has been the most challenging of the commodities for which to develop acreage projections. In order to provide reasonable acreage projections, the District has employed a combination of methodologies and data sources such as IFAS, FASS and FDACS. The citrus acreage projections presented in this paper result from a combination of information provided by IFAS, assumptions made where no data was available or provided by the consultant, and of adjustments to the IFAS' opinion where projections were neither supported by other data nor realistic. Assumptions regarding the population and the economy are examples of factors underlying these projections.

Projections in this document were produced based on the most recent and best available data and consistent with the state population census trends. Decline in citrus acreage and changes in land use practices reflect an increase in population and economic growth in Charlotte, Hillsborough and Manatee counties. Hardee, Sarasota and Sumter counties are projected to have increases in citrus acreage, though increases in Sarasota and Sumter are rather moderate. The remaining counties indicate that citrus acreage is expected to decline over the planning period, which is consistent with the reported statewide trend. The information presented in Table 4-1A indicates a similar District-wide trend.

Projections

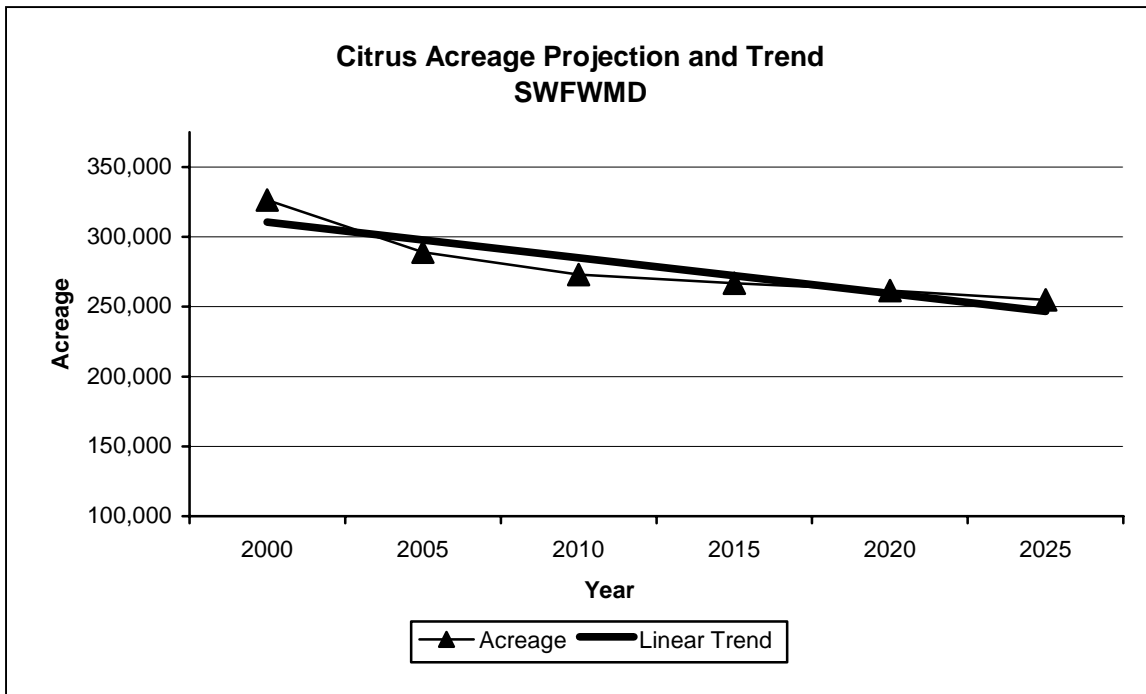
Agricultural acreage and water use projections are only as accurate as the source data and the validity of assumptions. As a result, District staff evaluated a number of alternative projections based on different land use to gauge the uncertainty involved in making some of these projections. These alternatives are not statistical confidence limits, but instead represent judgments made by the staff as to reasonable upper and lower bounds of the data (Figure 4-1A). For example, acreage projections provided by the IFAS were adjusted to reflect the recent land use activities in Charlotte County. In this instance, our examination of Charlotte County land use patterns illustrated a 12.6 percent loss between 2000 and 2005 in agricultural acreage and a corresponding increased activity in urban land use that is consistent with the projected population growth of approximately 12 percent for Charlotte County.

Table 4-1A. Citrus Acreage Projections by County.

County	2000	2005	2010	2015	2020	2025
Citrus	247	19	0	0	0	0
Charlotte	14,511	13,523	12,441	11,446	10,530	9,688
DeSoto	71,781	46,067	37,525	35,244	34,426	33,941
Hardee	53,115	56,779	63,709	73,309	82,793	92,163
Hernando	1,105	967	121	138	175	210
Highlands	24,455	25,100	24,873	23,173	19,737	14,123
Hillsborough	26,223	23,338	20,771	18,486	16,453	14,643
Lake	939.00	939.00	939.00	939.00	939.00	939.00
Levy	0.00	0.00	0.00	0.00	0.00	0.00
Manatee	23,254	20,464	18,008	15,847	13,945	12,272
Marion	0.00	0.00	0.00	0.00	0.00	0.00
Pasco	10,897	5,473	5,035	4,866	4,713	4,564
Pinellas	50	50	50	50	50	50
Polk	97,425	94,107	87,093	80,627	74,650	68,939
Sarasota	2,321	2,366	2,573	2,763	2,942	3,114
Sumter	250	250	250	250	250	250
Totals	326,573	289,442	273,388	267,138	261,603	254,896

Sources: SWFWMD Regulatory Database and GIS, County Property Appraiser Offices and IFAS-2004, FDACS, FASS.

Figure 4-1A. District Citrus Acreage Trend.



Sources: SWFWMD Regulatory Database and GIS, County Property Appraiser Offices and IFAS-2004, FDACS, FASS.

Further examination of data collected by individual county property appraiser offices substantiates citrus acreage declines from 1999 to 2004 and increase in residential land use category. Recent increases in market demand for developable land for residential and commercial purposes have been a major determinant for developing acreage projections in this document. Other recent developments may have impacted agriculture within the planning area include: full implementation of the North American Free Trade Agreement (NAFTA) and other global competition issues; more stringent regulations; 2004 hurricanes; and destructive insect and disease outbreaks.

NURSERIES

The sources for nursery acreage information include the IFAS and the District's Regulatory Database and individual county property appraisers (1999-2004). IFAS obtained its acreage information from the Florida Division of Plant Industry. The District used IFAS projections where available, reasonable and applicable based on the nursery industry's recent development and a thriving housing market. Industry representatives such as Tampa Bay Wholesale Growers, and the Florida Nursery, Growers and Landscape Association (FNGLA) helped to develop the most likely scenarios. These projections indicate an overall increase in acreages through the planning period.

PASTURES

The projections in the 2001 RWSP were extrapolated to 2025, since no appreciable changes have been documented. However, recent increase in market demand for developable lands suggests a downward trend could occur.

SOD

The District's Regulatory Database was relied on almost entirely for acreage information regarding irrigated sod farms. Very few individual county Cooperative Extension Service offices were able to provide acreage information. District staff has also been in contact with representatives of the sod industry to assist with the projections and incorporated some of their input.

STRAWBERRY

The projections for strawberry acreages were developed using information from individual county Cooperative Extension Service offices, the District's Regulatory Database, FASS, and IFAS (Hillsborough County only). The projections indicate an increase in strawberry acreage through the year 2010 and are then held constant for the remainder of the planning period. Upon review of statewide strawberry data provided by FASS from 1993 to 2002 a very slight annual increase is observed. Due to the uncertainty of this market and how possible future restrictions regarding methyl bromide as a fumigant may affect the strawberry industry in Florida, the projections are held constant after the year 2010.

OTHER CROPS

IFAS projections were used throughout the planning period for tomatoes, potatoes, cucumbers, melons, field crops, other vegetables and row crops. In cases where IFAS was not able to provide projections for crops lacking historical data, statewide trends were used to calculate the acreages. Review of the FASS data from 1993 to 2002 reveals a statewide decline in acreages for the above crops. The rate of decline varies with each commodity and those crop-specific rates of decline are reflected in the District projections for that particular crop. Projections for other vegetable and row crops are held constant from the base year 2000 throughout the planning period where IFAS projections were not available.

NON-IRRIGATED COMMODITIES

Table 4-2A provides total water use projections by county through the year 2025 for agricultural industries whose water use needs are not irrigation-related (*e.g.*, aquaculture, dairy, cattle, poultry, and others). These projections were derived primarily from District permitting databases and are shown in the aggregate. Since the water use needs of these enterprises are not driven by irrigation, the water use needs for this (*e.g.*, 'Miscellaneous') reporting category are the same for the 5-in-10 (average annual) and 1-in-10 drought year scenarios.

Table 4-2A. Projections of Non-Irrigated Agricultural Water Use (mgd).

COUNTY	2000	2005	2010	2015	2020	2025
Citrus	0.1	0.1	0.1	0.1	0.1	0.1
Charlotte	0.1	0.1	0.1	0.1	0.1	0.1
DeSoto	1.0	1.0	1.0	1.0	1.0	1.0
Hardee	1.0	1.0	1.0	1.0	1.0	1.0
Hernando	0.5	0.5	0.5	0.5	0.5	0.5
Highlands	0.5	0.5	0.5	0.5	0.5	0.5
Hillsborough	5.0	5.0	5.0	5.0	5.0	5.0
Lake	0.0	0.0	0.0	0.0	0.0	0.0
Levy	0.1	0.1	0.1	0.1	0.1	0.1
Manatee	0.8	0.8	0.8	0.8	0.8	0.8
Marion	0.4	0.4	0.4	0.4	0.4	0.4
Pasco	0.8	0.8	0.8	0.8	0.8	0.8
Pinellas	0.2	0.2	0.2	0.2	0.2	0.2
Polk	2.0	2.0	2.0	2.0	2.0	2.0
Sarasota	0.2	0.2	0.2	0.2	0.2	0.2
Sumter	2.0	2.0	2.0	2.0	2.0	2.0
Totals	14.7	14.7	14.7	14.7	14.7	14.7

Source: SWFWMD Regulatory Database and Estimated Water Use Report

Notes: (1) Includes agricultural operations not included in other categories (e.g., aquaculture, dairy, cattle poultry and others). 2) Average and "1-in-10" water use projections are the same for these enterprises.

Presentation of Results

Table 4-3A provides county-by-county summary water use demands projections through the year 2025.

Table 4-3A. Agricultural Demand Projection Summary by County (mgd).

County	2000	2005		2010		2015		2020		2025	
		Avg	1-10	Avg	1-10	Avg	1-10	Avg	1-10	Avg	1-10
Charlotte	18.83	17.67	25.93	16.51	24.16	15.38	22.47	14.32	20.89	13.63	19.72
Citrus	0.97	0.54	0.57	0.41	0.42	0.40	0.41	0.40	0.41	0.40	0.41
DeSoto	78.69	56.44	84.59	48.06	71.25	45.34	67.20	43.98	65.35	43.35	64.44
Hardee	55.32	57.58	90.89	61.19	98.54	68.32	111.26	75.70	124.16	83.18	137.09
Hernando	4.07	3.83	4.74	2.85	3.12	2.99	3.30	3.17	3.51	3.34	3.73
Highlands	40.84	44.05	57.58	45.70	59.34	43.54	56.35	39.17	50.30	32.04	40.42
Hillsborough	76.29	77.18	93.23	79.21	92.78	80.47	93.26	81.68	93.78	82.95	94.41
Lake	2.27	2.16	2.74	2.06	2.64	2.06	2.64	2.06	2.64	2.06	2.64
Levy	7.07	6.55	7.52	6.23	7.18	6.04	6.96	6.17	7.12	6.17	7.12
Manatee	77.76	71.61	81.45	65.66	74.50	61.81	69.78	58.06	65.26	54.58	61.11
Marion	6.41	5.91	6.16	6.16	7.30	6.57	7.80	6.57	7.80	7.41	8.81
Pasco	22.01	15.80	14.68	14.52	14.37	14.22	18.47	18.20	17.97	16.94	17.74
Pinellas	1.36	1.16	1.25	1.07	1.15	0.97	1.05	0.89	0.95	0.80	0.85
Polk	107.74	104.31	158.04	97.42	147.22	91.12	137.30	85.30	128.12	79.73	119.35
Sarasota	12.73	12.81	14.93	12.97	15.21	13.15	15.69	13.72	16.16	14.08	16.62
Sumter	7.29	6.80	7.30	7.44	7.99	8.11	8.73	8.78	9.46	9.45	10.19
TOTAL	521.71	486.18	653.34	469.19	628.34	462.17	623.74	459.85	614.98	451.64	605.53

Sources: SWFWMD Regulatory Database and GIS, County Property Appraiser Offices, IFAS-2004, FDACS and FASS -2004

Tables 4.4A thru 4.15A provide District-wide acreage and annual water use projections for individual irrigated crop-reporting categories. The specific data sources are indicated at the end of each table.

Table 4-4A. Acreage and Annual Water Use Projections for Individual Crops in Charlotte County.

Major Crop Categories	Irrigated Acreage					
	2000	2005	2010	2015	2020	2025
Citrus	14,511	13,523	12,441	11,446	10,530	9,688
Cucumbers	31	21	15	15	15	15
Field Crops	0.00	0.00	0.00	0.00	0.00	0.00
Melons	653	455	342	187	25	0.00
Nurseries	142	200	239	277	315	354
Other Veg./Row Crops	300	300	300	300	300	300
Pasture	150	150	150	150	150	150
Potatoes	0.00	0.00	0.00	0.00	0.00	0.00
Sod	450	450	450	450	450	450
Strawberries	12	12	12	12	12	12
Tomatoes	153	137	122	122	122	122
Total	16,402	15,248	14,071	12,959	11,919	11,091

Major Crop Categories	Annual Water Use Projections - 50% Drought Probability (MGD)					
	2000	2005	2010	2015	2020	2025
Citrus	14.37	13.39	12.32	11.33	10.42	9.59
Cucumbers	0.05	0.04	0.03	0.03	0.03	0.03
Field Crops	0.00	0.00	0.00	0.00	0.00	0.00
Melons	1.40	0.98	0.74	0.40	0.05	0.00
Nurseries	0.73	1.02	1.22	1.42	1.61	1.81
Other Veg./Row Crops	0.39	0.39	0.39	0.39	0.39	0.39
Pasture	0.14	0.14	0.14	0.14	0.14	0.14
Potatoes	0.00	0.00	0.00	0.00	0.00	0.00
Sod	1.15	1.15	1.15	1.15	1.15	1.15
Strawberries	0.03	0.03	0.03	0.03	0.03	0.03
Tomatoes	0.37	0.34	0.30	0.30	0.30	0.30
Miscellaneous	0.10	0.10	0.10	0.10	0.10	0.10
Total	18.73	17.57	16.41	15.28	14.22	13.53

Major Crop Categories	Annual Water Use Projections - 10% Drought Probability (MGD)					
	2000	2005	2010	2015	2020	2025
Citrus	22.93	21.37	19.66	18.08	16.64	15.31
Cucumbers	0.05	0.04	0.03	0.03	0.03	0.03
Field Crops	0.00	0.00	0.00	0.00	0.00	0.00
Melons	1.40	0.98	0.74	0.40	0.05	0.00
Nurseries	0.81	1.14	1.36	1.57	1.79	2.01
Other Veg./Row Crops	0.39	0.39	0.39	0.39	0.39	0.39
Pasture	0.14	0.14	0.14	0.14	0.14	0.14
Potatoes	0.00	0.00	0.00	0.00	0.00	0.00
Sod	1.32	1.32	1.32	1.32	1.32	1.32
Strawberries	0.03	0.03	0.03	0.03	0.03	0.03
Tomatoes	0.37	0.34	0.30	0.30	0.30	0.30
Miscellaneous	0.10	0.10	0.10	0.10	0.10	0.10
Total	27.55	25.83	24.06	22.37	20.79	19.62

Acreage Information Source

- Citrus IFAS, FASS, FDACS, 2004 - adjusted based on land use trend analysis
- Cucumbers County Cooperative Extensions Service (CCES) and FASS Statewide trend.
- Field Crops CCES and FASS Statewide trend.
- Melons IFAS Medium trend projections
- Nurseries 10 Year linear trend using IFAS and data industry representative input.
- Other Veg./Row Crops CCES and FASS Statewide trend.
- Pasture Regional Water Supply Planning Report (2001)
- Potatoes CCES and FASS Statewide trend.
- Sod SWFWMD database with industry input
- Strawberries CCES and FASS Statewide trend.
- Tomatoes CCES and FASS Statewide trend.

Table 4-5A. Acreage and Annual Water Use Projections for Individual Crops in DeSoto County.

Major Crop Categories	Irrigated Acreage					
	2000	2005	2010	2015	2020	2025
Citrus	71,781	46,067	37,525	35,244	34,426	33,941
Cucumbers	100	69	48	48	48	48
Field Crops	0.00	0.00	0.00	0.00	0.00	0.00
Melons	1367	1,195	733	375	79	0.00
Nurseries	53	39	29	20	10	0.00
Other Veg./Row Crops	728	728	728	728	728	728
Pasture	1200	1200	1200	1200	1200	1200
Potatoes	288	252	221	221	221	221
Sod	3660	3660	3660	3660	3660	3660
Strawberries	100	100	100	100	100	100
Tomatoes	500	447	400	400	400	400
Total	79,777	53,757	44,644	41,996	40,872	40,298

Major Crop Categories	Annual Water Use Projections - 50% Drought Probability (MGD)					
	2000	2005	2010	2015	2020	2025
Citrus	60.30	38.70	31.52	29.60	28.92	28.51
Cucumbers	0.16	0.11	0.08	0.08	0.08	0.08
Field Crops	0.00	0.00	0.00	0.00	0.00	0.00
Melons	2.90	2.53	1.55	0.80	0.17	0.00
Nurseries	0.26	0.19	0.14	0.10	0.05	0.00
Other Veg./Row Crops	0.95	0.95	0.95	0.95	0.95	0.95
Pasture	1.08	1.08	1.08	1.08	1.08	1.08
Potatoes	0.27	0.24	0.21	0.21	0.21	0.21
Sod	9.33	9.33	9.33	9.33	9.33	9.33
Strawberries	0.24	0.24	0.24	0.24	0.24	0.24
Tomatoes	1.20	1.07	0.96	0.96	0.96	0.96
Miscellaneous	1.00	1.00	1.00	1.00	1.00	1.00
Total	77.69	55.44	47.06	44.34	42.98	42.35

Major Crop Categories	Annual Water Use Projections - 10% Drought Probability (MGD)					
	2000	2005	2010	2015	2020	2025
Citrus	101.93	65.42	53.29	50.05	48.88	48.20
Cucumbers	0.16	0.11	0.08	0.08	0.08	0.08
Field Crops	0.00	0.00	0.00	0.00	0.00	0.00
Melons	2.90	2.53	1.55	0.80	0.17	0.00
Nurseries	0.29	0.21	0.16	0.11	0.06	0.00
Other Veg./Row Crops	0.95	0.95	0.95	0.95	0.95	0.95
Pasture	1.08	1.08	1.08	1.08	1.08	1.08
Potatoes	0.29	0.25	0.22	0.22	0.22	0.22
Sod	10.72	10.72	10.72	10.72	10.72	10.72
Strawberries	0.24	0.24	0.24	0.24	0.24	0.24
Tomatoes	1.20	1.07	0.96	0.96	0.96	0.96
Miscellaneous	1.00	1.00	1.00	1.00	1.00	1.00
Total	120.76	83.59	70.25	66.20	64.35	63.44

Acreage Information Source

- Citrus IFAS 2004
- Cucumbers County Cooperative Extensions Service (CCES) and FASS Statewide trend.
- Field Crops CCES and FASS Statewide trend.
- Melons IFAS Medium trend projections
- Nurseries 10 Year linear trend using IFAS and data industry representative input.
- Other Veg./Row Crops 50% of SWFWMD database and FASS Data Trend
- Pasture Regional Water Supply Planning Report (2001)
- Potatoes SWFWMD database and FASS Data Trend
- Sod SWFWMD database
- Strawberries CCES and FASS Statewide trend.
- Tomatoes CCES and FASS Statewide trend.

Table 4-6A. Acreage and Annual Water Use Projections for Individual Crops in Hardee County.

Major Crop Categories	Irrigated Acreage					
	2000	2005	2010	2015	2020	2025
Citrus	53,115	56,779	63,709	73,309	82,793	92,163
Cucumbers	1,000	692	479	479	479	479
Field Crops	655	634	614	614	614	614
Melons	1002	993	330	86	0.00	0.00
Nurseries	384	405	440	476	511	546
Other Veg./Row Crops	2,100	2,100	2,100	2,100	2,100	2,100
Pasture	300	300	300	300	300	300
Potatoes	0.00	0.00	0.00	0.00	0.00	0.00
Sod	150	150	150	150	150	150
Strawberries	300	300	300	300	300	300
Tomatoes	600	537	480	480	480	480
Total	59,606	62,890	68,902	78,294	87,727	97,132

Major Crop Categories	Annual Water Use Projections - 50% Drought Probability (MGD)					
	2000	2005	2010	2015	2020	2025
Citrus	41.43	44.29	49.69	57.18	64.58	71.89
Cucumbers	1.66	1.15	0.80	0.80	0.80	0.80
Field Crops	0.58	0.56	0.55	0.55	0.55	0.55
Melons	2.20	2.18	0.73	0.19	0.00	0.00
Nurseries	1.88	1.98	2.16	2.33	2.50	2.68
Other Veg./Row Crops	2.77	2.77	2.77	2.77	2.77	2.77
Pasture	0.27	0.27	0.27	0.27	0.27	0.27
Potatoes	0.00	0.00	0.00	0.00	0.00	0.00
Sod	0.37	0.37	0.37	0.37	0.37	0.37
Strawberries	0.70	0.70	0.70	0.70	0.70	0.70
Tomatoes	1.45	1.30	1.16	1.16	1.16	1.16
Miscellaneous	1.00	1.00	1.00	1.00	1.00	1.00
Total	54.32	56.58	60.19	67.32	74.70	82.18

Major Crop Categories	Annual Water Use Projections - 10% Drought Probability (MGD)					
	2000	2005	2010	2015	2020	2025
Citrus	72.24	77.22	86.64	99.70	112.60	125.34
Cucumbers	1.66	1.15	0.80	0.80	0.80	0.80
Field Crops	0.66	0.64	0.62	0.62	0.62	0.62
Melons	2.20	2.18	0.73	0.19	0.00	0.00
Nurseries	2.11	2.23	2.42	2.62	2.81	3.00
Other Veg./Row Crops	2.77	2.77	2.77	2.77	2.77	2.77
Pasture	0.27	0.27	0.27	0.27	0.27	0.27
Potatoes	0.00	0.00	0.00	0.00	0.00	0.00
Sod	0.43	0.43	0.43	0.43	0.43	0.43
Strawberries	0.70	0.70	0.70	0.70	0.70	0.70
Tomatoes	1.45	1.30	1.16	1.16	1.16	1.16
Miscellaneous	1.00	1.00	1.00	1.00	1.00	1.00
Total	85.50	89.89	97.54	110.26	123.16	136.09

Acreage Information Source

- Citrus IFAS 2004
- Cucumbers County Cooperative Extension Service (CCES) and FASS Statewide trend.
- Field Crops 50% of SWFWMD database and FASS Data Trend
- Melons IFAS Medium trend projections
- Nurseries 10 Year linear trend using IFAS and data industry representative input.
- Other Veg./Row Crops 50% of SWFWMD database and FASS Data Trend
- Pasture Regional Water Supply Planning Report (2001)
- Potatoes SWFWMD database and FASS Data Trend
- Sod SWFWMD database
- Strawberries CCES and FASS Statewide trend.
- Tomatoes Regional Water Supply Planning Report (2001) and FASS data trend.

Table 4-7A. Acreage and Annual Water Use Projections for Individual Crops in Highlands County.

Major Crop Categories	Irrigated Acreage					
	2000	2005	2010	2015	2020	2025
Citrus	24,455	25,100	24,873	23,173	19,737	14,123
Cucumbers	0.00	0.00	0.00	0.00	0.00	0.00
Field Crops	55	53	52	52	52	52
Melons	275	222	179	179	179	179
Nurseries	1035	1537	1944	1944	1944	1944
Other Veg./Row Crops	34	34	34	34	34	34
Pasture	210	210	210	210	210	210
Potatoes	0.00	0.00	0.00	0.00	0.00	0.00
Sod	1090	1090	1090	1090	1090	1090
Strawberries	6	6	6	6	6	6
Tomatoes	0.00	0.00	0.00	0.00	0.00	0.00
Total	27,160	28,252	28,388	26,688	23,252	17,638

Major Crop Categories	Annual Water Use Projections - 50% Drought Probability (MGD)					
	2000	2005	2010	2015	2020	2025
Citrus	31.06	31.88	31.59	29.43	25.07	17.94
Cucumbers	0.00	0.00	0.00	0.00	0.00	0.00
Field Crops	0.06	0.06	0.06	0.06	0.06	0.06
Melons	0.61	0.49	0.40	0.40	0.40	0.40
Nurseries	5.18	7.69	9.72	9.72	9.72	9.72
Other Veg./Row Crops	0.05	0.05	0.05	0.05	0.05	0.05
Pasture	0.18	0.18	0.18	0.18	0.18	0.18
Potatoes	0.00	0.00	0.00	0.00	0.00	0.00
Sod	2.69	2.69	2.69	2.69	2.69	2.69
Strawberries	0.01	0.01	0.01	0.01	0.01	0.01
Tomatoes	0.00	0.00	0.00	0.00	0.00	0.00
Miscellaneous	0.50	0.50	0.50	0.50	0.50	0.50
Total	40.34	43.55	45.20	43.04	38.67	31.54

Major Crop Categories	Annual Water Use Projections - 10% Drought Probability (MGD)					
	2000	2005	2010	2015	2020	2025
Citrus	43.04	44.18	43.78	40.78	34.74	24.86
Cucumbers	0.00	0.00	0.00	0.00	0.00	0.00
Field Crops	0.06	0.06	0.06	0.06	0.06	0.06
Melons	0.61	0.49	0.40	0.40	0.40	0.40
Nurseries	5.73	8.51	10.77	10.77	10.77	10.77
Other Veg./Row Crops	0.05	0.05	0.05	0.05	0.05	0.05
Pasture	0.18	0.18	0.18	0.18	0.18	0.18
Potatoes	0.00	0.00	0.00	0.00	0.00	0.00
Sod	3.10	3.10	3.10	3.10	3.10	3.10
Strawberries	0.01	0.01	0.01	0.01	0.01	0.01
Tomatoes	0.00	0.00	0.00	0.00	0.00	0.00
Miscellaneous	0.50	0.50	0.50	0.50	0.50	0.50
Total	53.29	57.08	58.84	55.85	49.80	39.92

Acreage Information Source

- Citrus IFAS 2004
- Cucumbers SWFWMD database and FASS Data Trend
- Field Crops CCES and FASS Statewide trend.
- Melons CCES and FASS Statewide trend.
- Nurseries 10 Year linear trend using IFAS and data industry representative input.
- Other Veg./Row Crops 50% of SWFWMD database and FASS Data Trend
- Pasture Regional Water Supply Planning Report (2001)
- Potatoes CCES and FASS Statewide trend.
- Sod SWFWMD database with industry input
- Strawberries CCES and FASS Statewide trend.
- Tomatoes CCES and FASS Statewide trend.

Table 4-8A. Acreage and Annual Water Use Projections for Individual Crops (SWUCA) in Hillsborough County.

Major Crop Categories	Irrigated Acreage					
	2000	2005	2010	2015	2020	2025
Citrus	16,520	14,952	12,088	11,121	10,231	9,413
Cucumbers	567	392	272	272	272	272
Field Crops	275	266	258	258	258	258
Melons	126	101	82	82	82	82
Nurseries	1,406	1,413	1,526	1,639	1,753	1,866
Other Veg./Row Crops	1,636	1,476	2,084	2,177	2,255	2,329
Pasture	816	816	816	816	816	816
Potatoes	0.00	0.00	0.00	0.00	0.00	0.00
Sod	1,806	1,806	1,806	1,806	1,806	1,806
Strawberries	3,528	4,004	4,580	4,580	4,580	4,580
Tomatoes	2,079	2,592	3,105	3,480	3,827	4,163
Total	28,759	27,820	26,616	26,230	25,878	25,583

Major Crop Categories	Annual Water Use Projections - 50% Drought Probability (MGD)					
	2000	2005	2010	2015	2020	2025
Citrus	13.22	11.96	9.67	8.90	8.18	7.53
Cucumbers	0.94	0.65	0.45	0.45	0.45	0.45
Field Crops	0.25	0.24	0.23	0.23	0.23	0.23
Melons	0.28	0.22	0.18	0.18	0.18	0.18
Nurseries	6.85	6.88	7.43	7.98	8.54	9.09
Other Veg./Row Crops	1.95	1.76	90.00	2.59	2.68	2.77
Pasture	0.73	0.73	0.73	0.73	0.73	0.73
Potatoes	0.00	0.00	0.00	0.00	0.00	0.00
Sod	4.50	4.50	4.50	4.50	4.50	4.50
Strawberries	8.04	9.13	10.44	10.44	10.44	10.44
Tomatoes	5.01	6.25	7.48	8.39	9.22	10.03
Miscellaneous	5.00	5.00	5.00	5.00	5.00	5.00
Total	46.76	47.32	136.12	49.39	50.16	50.96

Major Crop Categories	Annual Water Use Projections - 10% Drought Probability (MGD)					
	2000	2005	2010	2015	2020	2025
Citrus	22.63	20.48	16.56	15.24	14.02	12.90
Cucumbers	1.49	1.03	0.72	0.72	0.72	0.72
Field Crops	0.29	0.28	0.27	0.27	0.27	0.27
Melons	0.44	0.35	0.28	0.28	0.28	0.28
Nurseries	7.68	7.72	8.33	8.95	9.57	10.19
Other Veg./Row Crops	3.09	2.79	3.94	4.11	4.26	4.40
Pasture	1.17	1.17	1.17	1.17	1.17	1.17
Potatoes	0.00	0.00	0.00	0.00	0.00	0.00
Sod	5.22	5.22	5.22	5.22	5.22	5.22
Strawberries	12.77	14.49	16.58	16.58	16.58	16.58
Tomatoes	7.95	9.91	11.88	13.31	14.63	15.92
Miscellaneous	5.00	5.00	5.00	5.00	5.00	5.00
Total	67.72	68.44	69.93	70.84	71.71	72.63

Acreage Information Source

- Citrus IFAS, FASS, FDACS, 2004 - adjusted based on land use trend analysis
- Cucumbers Florida Agricultural Statistics Service (FASS) 2001 data and trend
- Field Crops 50% of SWFWMD database and FASS Data Trend
- Melons Regional Water Supply Planning Report (2001) and FASS data trend.
- Nurseries 10 Year linear trend using IFAS and data industry representative input.
- Other Veg./Row Crops IFAS Medium projections and 50% SWFWMD database
- Pasture Regional Water Supply Planning Report (2001)
- Potatoes CCES and FASS Statewide trend.
- Sod SWFWMD database with industry input
- Strawberries IFAS Medium projections.
- Tomatoes CCES and FASS Statewide trend.

Table 4-9A. Acreage and Annual Water Use Projections for Individual Crops (non-SWUCA) in Hillsborough County.

Major Crop Categories	Irrigated Acreage					
	2000	2005	2010	2015	2020	2025
Citrus	26,223	23,734	19,187	17,652	16,240	14,941
Cucumbers	900	623	431	431	431	431
Field Crops	436	422	409	409	409	409
Melons	200	161	130	130	130	130
Nurseries	2232	2243	2423	2602	2782	2962
Other Veg./Row Crops	2,597	2,343	3,308	3,456	3,580	3,697
Pasture	1295	1295	1295	1295	1295	1295
Potatoes	0.00	0.00	0.00	0.00	0.00	0.00
Sod	2866	2866	2866	2866	2866	2866
Strawberries	5600	6356	7270	7270	7270	7270
Tomatoes	3300	4115	4929	5524	6074	6608
Total	45,649	44,158	42,248	41,635	41,077	40,609

Major Crop Categories	Annual Water Use Projections - 50% Drought Probability (MGD)					
	2000	2005	2010	2015	2020	2025
Citrus	20.98	18.99	15.35	14.12	12.99	11.95
Cucumbers	1.49	1.03	0.72	0.72	0.72	0.72
Field Crops	0.40	0.38	0.37	0.37	0.37	0.37
Melons	0.44	0.35	0.28	0.28	0.28	0.28
Nurseries	10.87	10.92	11.80	12.67	13.55	14.42
Other Veg./Row Crops	3.09	2.79	3.94	4.11	4.26	4.40
Pasture	1.17	1.17	1.17	1.17	1.17	1.17
Potatoes	0.00	0.00	0.00	0.00	0.00	0.00
Sod	7.14	7.14	7.14	7.14	7.14	7.14
Strawberries	12.77	14.49	16.58	16.58	16.58	16.58
Tomatoes	7.95	9.91	11.88	13.31	14.63	15.92
Miscellaneous	5.00	5.00	5.00	5.00	5.00	5.00
Total	71.29	72.18	74.21	75.47	76.68	77.95

Major Crop Categories	Annual Water Use Projections - 10% Drought Probability (MGD)					
	2000	2005	2010	2015	2020	2025
Citrus	35.93	32.52	26.29	24.18	22.25	20.47
Cucumbers	1.49	1.03	0.72	0.72	0.72	0.72
Field Crops	0.45	0.44	0.43	0.43	0.43	0.43
Melons	0.44	0.35	0.28	0.28	0.28	0.28
Nurseries	12.19	12.25	13.23	14.21	15.19	16.17
Other Veg./Row Crops	3.09	2.79	3.94	4.11	4.26	4.40
Pasture	1.17	1.17	1.17	1.17	1.17	1.17
Potatoes	0.00	0.00	0.00	0.00	0.00	0.00
Sod	8.28	8.28	8.28	8.28	8.28	8.28
Strawberries	12.77	14.49	16.58	16.58	16.58	16.58
Tomatoes	7.95	9.91	11.88	13.31	14.63	15.92
Miscellaneous	5.00	5.00	5.00	5.00	5.00	5.00
Total	88.76	88.23	87.78	88.26	88.78	89.41

Acreage Information Source

- Citrus IFAS, FASS, FDACS, 2004 - adjusted based on land use trend analysis
- Cucumbers Florida Agricultural Statistics Service (FASS) 2001 data and trend
- Field Crops 50% of SWFWMD database and FASS Data Trend
- Melons Regional Water Supply Planning Report (2001) and FASS data trend.
- Nurseries 10 Year linear trend using IFAS and data industry representative input.
- Other Veg./Row Crops IFAS Medium projections and 50% SWFWMD database
- Pasture Regional Water Supply Planning Report (2001)
- Potatoes CCES and FASS Statewide trend.
- Sod SWFWMD database with industry input
- Strawberries IFAS Medium projections.
- Tomatoes CCES and FASS Statewide trend.

Table 4-10A. Acreage and Annual Water Use Projections for Individual Crops in Manatee County.

Major Crop Categories	Irrigated Acreage					
	2000	2005	2010	2015	2020	2025
Citrus	23,254	20,316	17,756	15,519	13,564	11,855
Cucumbers	1,200	830	575	575	575	575
Field Crops	470	455	441	441	441	441
Melons	1,440	1,579	1,772	1,930	2,075	2,216
Nurseries	869	935	867	799	732	664
Other Veg./Row Crops	7,024	7,024	7,024	7,024	7,024	7,024
Pasture	1,450	1,450	1,450	1,450	1,450	1,450
Potatoes	3,000	2,630	2,305	2,305	2,305	2,305
Sod	4,000	4,000	4,000	4,000	4,000	4,000
Strawberries	500	500	500	500	500	500
Tomatoes	10,000	8,561	7,196	6,343	5,445	4,579
Total	53,207	48,280	43,886	40,886	38,111	35,609

Major Crop Categories	Annual Water Use Projections - 50% Drought Probability (MGD)					
	2000	2005	2010	2015	2020	2025
Citrus	19.30	16.86	14.74	12.88	11.26	9.84
Cucumbers	1.96	1.35	0.94	0.94	0.94	0.94
Field Crops	0.40	0.39	0.38	0.38	0.38	0.38
Melons	3.18	3.49	3.92	4.27	4.59	4.90
Nurseries	4.07	4.38	4.06	3.74	3.43	3.11
Other Veg./Row Crops	8.92	8.92	8.92	8.92	8.92	8.92
Pasture	1.32	1.32	1.32	1.32	1.32	1.32
Potatoes	2.40	2.10	1.84	1.84	1.84	1.84
Sod	9.68	9.68	9.68	9.68	9.68	9.68
Strawberries	1.17	1.17	1.17	1.17	1.17	1.17
Tomatoes	23.76	20.34	17.10	15.07	12.94	10.88
Miscellaneous	0.80	0.80	0.80	0.80	0.80	0.80
Total	76.96	70.81	64.86	61.01	57.26	53.78

Major Crop Categories	Annual Water Use Projections - 10% Drought Probability (MGD)					
	2000	2005	2010	2015	2020	2025
Citrus	27.90	24.38	21.31	18.62	16.28	14.23
Cucumbers	1.96	1.35	0.94	0.94	0.94	0.94
Field Crops	0.46	0.44	0.43	0.43	0.43	0.43
Melons	3.18	3.49	3.92	4.27	4.59	4.90
Nurseries	4.56	4.91	4.55	4.19	3.84	3.49
Other Veg./Row Crops	8.92	8.92	8.92	8.92	8.92	8.92
Pasture	1.32	1.32	1.32	1.32	1.32	1.32
Potatoes	2.61	2.29	2.01	2.01	2.01	2.01
Sod	11.24	11.24	11.24	11.24	11.24	11.24
Strawberries	1.17	1.17	1.17	1.17	1.17	1.17
Tomatoes	23.76	20.34	17.10	15.07	12.94	10.88
Miscellaneous	0.80	0.80	0.80	0.80	0.80	0.80
Total	87.89	80.65	73.70	68.98	64.46	60.31

Acreage Information Source

- Citrus IFAS, FASS, FDACS, 2004 - adjusted based on land use trend analysis
- Cucumbers SWFWMD database and FASS data trend
- Field Crops 50% of SWFWMD database and FASS Data Trend
- Melons IFAS Medium projections
- Nurseries 10 Year linear trend using IFAS and data industry representative input.
- Other Veg./Row Crops 50% of SWFWMD database and FASS Data Trend
- Pasture Regional Water Supply Planning Report (2001)
- Potatoes County Cooperative Extension Service (CCES) using FASS Data Trend
- Sod County Cooperative Extension Service (CCES)
- Strawberries SWFWMD database and FASS data trend
- Tomatoes County Cooperative Extension Service (CCES) using FASS Data Trend

Table 4-11A. Acreage and Annual Water Use Projections for Individual Crops in Pasco County.

Major Crop Categories	Irrigated Acreage					
	2000	2005	2010	2015	2020	2025
Citrus	10,897	5,473	5,035	4,866	4,713	4,564
Cucumbers	0.00	0.00	0.00	0.00	0.00	0.00
Field Crops	0.00	0.00	0.00	0.00	0.00	0.00
Melons	100	81	65	65	65	65
Nurseries	436	279	163	163	163	163
Other Veg./Row Crops	208	208	208	208	208	208
Pasture	538	538	538	538	538	538
Potatoes	0.00	0.00	0.00	0.00	0.00	0.00
Sod	2169	2169	2169	2169	2169	2169
Strawberries	200	200	200	200	200	200
Tomatoes	500	447	400	400	400	400
Total	15,048	9,395	8,778	8,609	8,456	8,307

Major Crop Categories	Annual Water Use Projections - 50% Drought Probability (MGD)					
	2000	2005	2010	2015	2020	2025
Citrus	10.68	5.36	4.93	4.77	4.62	4.47
Cucumbers	0.00	0.00	0.00	0.00	0.00	0.00
Field Crops	0.00	0.00	0.00	0.00	0.00	0.00
Melons	0.25	0.20	0.16	0.16	0.16	0.16
Nurseries	1.93	1.24	0.72	0.72	0.72	0.72
Other Veg./Row Crops	0.31	0.31	0.31	0.31	0.31	0.31
Pasture	0.48	0.48	0.48	0.48	0.48	0.48
Potatoes	0.00	0.00	0.00	0.00	0.00	0.00
Sod	4.84	4.84	4.84	4.84	4.84	4.84
Strawberries	0.47	0.47	0.47	0.47	0.47	0.47
Tomatoes	1.46	1.31	1.17	1.17	1.17	1.17
Miscellaneous	0.80	0.80	0.80	0.80	0.80	0.80
Total	21.21	15.00	13.88	13.72	13.57	13.42

Major Crop Categories	Annual Water Use Projections - 10% Drought Probability (MGD)					
	2000	2005	2010	2015	2020	2025
Citrus	16.89	8.48	7.80	7.54	7.31	7.07
Cucumbers	0.00	0.00	0.00	0.00	0.00	0.00
Field Crops	0.00	0.00	0.00	0.00	0.00	0.00
Melons	0.25	0.20	0.16	0.16	0.16	0.16
Nurseries	2.18	1.39	0.81	0.81	0.81	0.81
Other Veg./Row Crops	0.31	0.31	0.31	0.31	0.31	0.31
Pasture	0.48	0.48	0.48	0.48	0.48	0.48
Potatoes	0.00	0.00	0.00	0.00	0.00	0.00
Sod	5.66	5.66	5.66	5.66	5.66	5.66
Strawberries	0.47	0.47	0.47	0.47	0.47	0.47
Tomatoes	1.46	1.31	1.17	1.17	1.17	1.17
Miscellaneous	0.80	0.80	0.80	0.80	0.80	0.80
Total	28.49	19.10	17.67	17.40	17.17	16.94

Acreage Information Source

- Citrus IFAS 2004
- Cucumbers County Cooperative Extension Service (CCES) using FASS data trend
- Field Crops County Cooperative Extension Service (CCES) using FASS data trend
- Melons Regional Water Supply Planning Report (2001) and FASS data trend
- Nurseries 10 Year linear trend using IFAS and data industry representative input.
- Other Veg./Row Crops 50% of SWFWMD database and FASS Data Trend
- Pasture Regional Water Supply Planning Report (2001)
- Potatoes County Cooperative Extension Service (CCES) using FASS Data Trend
- Sod SWFWMD database
- Strawberries SWFWMD database and FASS data trend
- Tomatoes SWFWMD database and FASS data trend

Table 4-12A. Acreage and Annual Water Use Projections for Individual Crops in Pinellas County.

Major Crop Categories	Irrigated Acreage					
	2000	2005	2010	2015	2020	2025
Citrus	50	0.00	0.00	0.00	0.00	0.00
Cucumbers	0.00	0.00	0.00	0.00	0.00	0.00
Field Crops	0.00	0.00	0.00	0.00	0.00	0.00
Melons	0.00	0.00	0.00	0.00	0.00	0.00
Nurseries	182	153	135	116	98	80
Other Veg./Row Crops	0.00	0.00	0.00	0.00	0.00	0.00
Pasture	0.00	0.00	0.00	0.00	0.00	0.00
Potatoes	0.00	0.00	0.00	0.00	0.00	0.00
Sod	0.00	0.00	0.00	0.00	0.00	0.00
Strawberries	0.00	0.00	0.00	0.00	0.00	0.00
Tomatoes	0.00	0.00	0.00	0.00	0.00	0.00
Total	232	153	135	116	98	80

Major Crop Categories	Annual Water Use Projections - 50% Drought Probability (MGD)					
	2000	2005	2010	2015	2020	2025
Citrus	0.06	0.00	0.00	0.00	0.00	0.00
Cucumbers	0.00	0.00	0.00	0.00	0.00	0.00
Field Crops	0.00	0.00	0.00	0.00	0.00	0.00
Melons	0.00	0.00	0.00	0.00	0.00	0.00
Nurseries	0.90	0.76	0.67	0.57	0.49	0.40
Other Veg./Row Crops	0.00	0.00	0.00	0.00	0.00	0.00
Pasture	0.00	0.00	0.00	0.00	0.00	0.00
Potatoes	0.00	0.00	0.00	0.00	0.00	0.00
Sod	0.00	0.00	0.00	0.00	0.00	0.00
Strawberries	0.00	0.00	0.00	0.00	0.00	0.00
Tomatoes	0.00	0.00	0.00	0.00	0.00	0.00
Miscellaneous	0.20	0.20	0.20	0.20	0.20	0.20
Total	1.16	0.96	0.87	0.77	0.69	0.60

Major Crop Categories	Annual Water Use Projections - 10% Drought Probability (MGD)					
	2000	2005	2010	2015	2020	2025
Citrus	0.09	0.00	0.00	0.00	0.00	0.00
Cucumbers	0.00	0.00	0.00	0.00	0.00	0.00
Field Crops	0.00	0.00	0.00	0.00	0.00	0.00
Melons	0.00	0.00	0.00	0.00	0.00	0.00
Nurseries	1.02	0.85	0.75	0.65	0.55	0.45
Other Veg./Row Crops	0.00	0.00	0.00	0.00	0.00	0.00
Pasture	0.00	0.00	0.00	0.00	0.00	0.00
Potatoes	0.00	0.00	0.00	0.00	0.00	0.00
Sod	0.00	0.00	0.00	0.00	0.00	0.00
Strawberries	0.00	0.00	0.00	0.00	0.00	0.00
Tomatoes	0.00	0.00	0.00	0.00	0.00	0.00
Miscellaneous	0.20	0.20	0.20	0.20	0.20	0.20
Total	1.30	1.05	0.95	0.85	0.75	0.65

Acreage Information Source

- Citrus IFAS 2004
- Cucumbers SWFWMD database and FASS data trend
- Field Crops County Cooperative Extension Service (CCES) using FASS Data Trend
- Melons SWFWMD database and FASS data trend
- Nurseries 10 Year linear trend using IFAS and data industry representative input.
- Other Veg./Row Crops County Cooperative Extension Service (CCES) using FASS data trend
- Pasture County Cooperative Extension Service (CCES)
- Potatoes County Cooperative Extension Service (CCES) using FASS Data Trend
- Sod SWFWMD database
- Strawberries SWFWMD database and FASS data trend
- Tomatoes County Cooperative Extension Service (CCES) using FASS Data Trend

Table 4-13A. Acreage and Annual Water Use Projections for Individual Crops in Polk County.

Major Crop Categories	Irrigated Acreage					
	2000	2005	2010	2015	2020	2025
Citrus	97,425	94,107	87,093	80,627	74,650	68,939
Cucumbers	0.00	0.00	0.00	0.00	0.00	0.00
Field Crops	816	823	797	797	797	797
Melons	0.00	0.00	0.00	0.00	0.00	0.00
Nurseries	656	609	602	596	590	584
Other Veg./Row Crops	516	537	537	537	537	537
Pasture	192	200	200	200	200	200
Potatoes	0.00	0.00	0.00	0.00	0.00	0.00
Sod	1452	1452	1452	1452	1452	1452
Strawberries	300	300	300	300	300	300
Tomatoes	110	98	88	88	88	88
Total	101,466	98,126	91,069	84,597	78,614	72,897

Major Crop Categories	Annual Water Use Projections - 50% Drought Probability (MGD)					
	2000	2005	2010	2015	2020	2025
Citrus	94.50	91.28	84.48	78.21	72.41	66.87
Cucumbers	0.00	0.00	0.00	0.00	0.00	0.00
Field Crops	0.77	0.77	0.75	0.75	0.75	0.75
Melons	0.00	0.00	0.00	0.00	0.00	0.00
Nurseries	3.15	2.92	2.89	2.86	2.83	2.80
Other Veg./Row Crops	0.68	0.71	0.71	0.71	0.71	0.71
Pasture	0.16	0.17	0.17	0.17	0.17	0.17
Potatoes	0.00	0.00	0.00	0.00	0.00	0.00
Sod	3.51	3.51	3.51	3.51	3.51	3.51
Strawberries	0.70	0.70	0.70	0.70	0.70	0.70
Tomatoes	0.27	0.24	0.21	0.21	0.21	0.21
Miscellaneous	2.00	2.00	2.00	2.00	2.00	2.00
Total	105.74	102.31	95.42	89.12	83.30	77.73

Major Crop Categories	Annual Water Use Projections - 10% Drought Probability (MGD)					
	2000	2005	2010	2015	2020	2025
Citrus	149.06	143.98	133.25	123.36	114.21	105.48
Cucumbers	0.00	0.00	0.00	0.00	0.00	0.00
Field Crops	0.86	0.87	0.84	0.84	0.84	0.84
Melons	0.00	0.00	0.00	0.00	0.00	0.00
Nurseries	3.53	3.28	3.24	3.21	3.17	3.14
Other Veg./Row Crops	0.71	0.71	0.71	0.71	0.71	0.71
Pasture	0.17	0.17	0.17	0.17	0.17	0.17
Potatoes	0.00	0.00	0.00	0.00	0.00	0.00
Sod	4.09	4.09	4.09	4.09	4.09	4.09
Strawberries	0.70	0.70	0.70	0.70	0.70	0.70
Tomatoes	0.27	0.24	0.21	0.21	0.21	0.21
Miscellaneous	2.00	2.00	2.00	2.00	2.00	2.00
Total	161.39	156.04	145.22	135.30	126.12	117.35

Acreage Information Source

- Citrus IFAS 2004
- Cucumbers SWFWMD database and FASS data trend
- Field Crops 50% of SWFWMD database and FASS Data Trend
- Melons Regional Water Supply Planning Report (2001) and FASS data trend
- Nurseries 10 Year linear trend using IFAS and data industry representative input.
- Other Veg./Row Crops 50% of SWFWMD database and FASS Data Trend
- Pasture Regional Water Supply Planning Report (2001)
- Potatoes County Cooperative Extension Service (CCES) using FASS Data Trend
- Sod SWFWMD database
- Strawberries SWFWMD database and FASS data trend
- Tomatoes SWFWMD database and FASS data trend

Table 4-14A. Acreage and Annual Water Use Projections for Individual Crops in Sarasota County.

Major Crop Categories	Irrigated Acreage					
	2000	2005	2010	2015	2020	2025
Citrus	2,321	2,366	2,573	2,763	2,942	3,114
Cucumbers	125	86	60	60	60	60
Field Crops	700	678	656	656	656	656
Melons	150	121	98	98	98	98
Nurseries	333	397	439	480	522	563
Other Veg./Row Crops	573	573	573	573	573	573
Pasture	555	555	555	555	555	555
Potatoes	0.00	0.00	0.00	0.00	0.00	0.00
Sod	2000	2000	2000	2000	2000	2000
Strawberries	0.00	0.00	0.00	0.00	0.00	0.00
Tomatoes	500	447	400	400	400	400
Total	7,257	7,223	7,354	7,585	7,806	8,019

Major Crop Categories	Annual Water Use Projections - 50% Drought Probability (MGD)					
	2000	2005	2010	2015	2020	2025
Citrus	2.14	2.18	2.37	2.54	2.71	2.86
Cucumbers	0.21	0.14	0.10	0.10	0.10	0.10
Field Crops	0.63	0.61	0.59	0.59	0.59	0.59
Melons	0.33	0.26	0.21	0.21	0.21	0.21
Nurseries	1.62	1.93	2.13	2.33	2.54	2.74
Other Veg./Row Crops	0.74	0.74	0.74	0.74	0.74	0.74
Pasture	0.53	0.53	0.53	0.53	0.53	0.53
Potatoes	0.00	0.00	0.00	0.00	0.00	0.00
Sod	4.94	4.94	4.94	4.94	4.94	4.94
Strawberries	0.00	0.00	0.00	0.00	0.00	0.00
Tomatoes	1.21	1.08	0.97	0.97	0.97	0.97
Miscellaneous	0.20	0.20	0.20	0.20	0.20	0.20
Total	12.53	12.61	12.77	13.15	13.52	13.88

Major Crop Categories	Annual Water Use Projections - 10% Drought Probability (MGD)					
	2000	2005	2010	2015	2020	2025
Citrus	3.13	3.19	3.47	3.73	3.97	4.20
Cucumbers	0.21	0.14	0.10	0.10	0.10	0.10
Field Crops	0.71	0.68	0.66	0.66	0.66	0.66
Melons	0.33	0.26	0.21	0.21	0.21	0.21
Nurseries	1.81	2.16	2.39	2.62	2.84	3.07
Other Veg./Row Crops	0.74	0.74	0.74	0.74	0.74	0.74
Pasture	0.53	0.53	0.53	0.53	0.53	0.53
Potatoes	0.00	0.00	0.00	0.00	0.00	0.00
Sod	5.74	5.74	5.74	5.74	5.74	5.74
Strawberries	0.00	0.00	0.00	0.00	0.00	0.00
Tomatoes	1.21	1.08	0.97	0.97	0.97	0.97
Miscellaneous	0.20	0.20	0.20	0.20	0.20	0.20
Total	14.60	14.73	15.01	15.49	15.96	16.42

Acreage Information Source

- Citrus IFAS 2004
- Cucumbers SWFWMD database and FASS data trend
- Field Crops Regional Water Supply Planning Report (2001) and FASS data trend
- Melons Regional Water Supply Planning Report (2001) and FASS data trend
- Nurseries 10 Year linear trend using IFAS and data industry representative input.
- Other Veg./Row Crops 50% of SWFWMD database and FASS Data Trend
- Pasture Regional Water Supply Planning Report (2001)
- Potatoes SWFWMD database and FASS data trend
- Sod Pers. Communication with Clive Morris
- Strawberries SWFWMD database and FASS data trend
- Tomatoes Regional Water Supply Planning Report (2001) and FASS data trend

Table 4-15A. Acreage and Annual Water Use Projections for Individual Crops in the 10 County Planning Region.

Major Crop Categories	Irrigated Acreage					
	2000	2005	2010	2015	2020	2025
Citrus	324,032	287,464	270,192	264,599	259,595	253,327
Cucumbers	3,356	2,321	1,608	1,608	1,608	1,608
Field Crops	3,132	3,065	2,969	2,969	2,969	2,969
Melons	5,187	4,807	3,649	3,050	2,651	2,688
Nurseries	6,322	6,797	7,281	7,473	7,667	7,860
Other Veg./Row Crops	14,080	13,847	14,812	14,960	15,084	15,201
Pasture	5,890	5,898	5,898	5,898	5,898	5,898
Potatoes	3,288	2,882	2,526	2,526	2,526	2,526
Sod	17,837	17,837	17,837	17,837	17,837	17,837
Strawberries	7,018	7,774	8,688	8,688	8,688	8,688
Tomatoes	15,663	14,789	14,015	13,757	13,409	13,077
Total	405,804	367,481	349,475	343,365	337,932	331,679

Major Crop Categories	Annual Water Use Projections - 50% Drought Probability (MGD)					
	2000	2005	2010	2015	2020	2025
Citrus	294.80	262.92	246.99	240.07	232.97	223.92
Cucumbers	5.53	3.83	2.65	2.65	2.65	2.65
Field Crops	2.84	2.78	2.69	2.69	2.69	2.69
Melons	11.31	10.50	7.99	6.71	5.86	5.95
Nurseries	30.58	33.03	35.51	36.47	37.43	38.39
Other Veg./Row Crops	17.90	17.62	18.77	18.95	19.10	19.24
Pasture	5.32	5.33	5.33	5.33	5.33	5.33
Potatoes	2.67	2.34	2.05	2.05	2.05	2.05
Sod	43.65	43.65	43.65	43.65	43.65	43.65
Strawberries	16.09	17.82	19.90	19.90	19.90	19.90
Tomatoes	37.68	35.59	33.74	33.15	32.34	31.57
Total	468.37	435.40	419.27	411.61	403.98	395.35

Major Crop Categories	Annual Water Use Projections - 10% Drought Probability (MGD)					
	2000	2005	2010	2015	2020	2025
Citrus	473.14	420.73	395.49	386.05	376.88	365.15
Cucumbers	5.53	3.83	2.65	2.65	2.65	2.65
Field Crops	3.21	3.14	3.04	3.04	3.04	3.04
Melons	11.31	10.50	7.99	6.71	5.86	5.95
Nurseries	34.23	36.93	39.69	40.76	41.84	42.91
Other Veg./Row Crops	17.93	17.62	18.77	18.95	19.10	19.24
Pasture	5.33	5.33	5.33	5.33	5.33	5.33
Potatoes	2.90	2.54	2.23	2.23	2.23	2.23
Sod	50.59	50.59	50.59	50.59	50.59	50.59
Strawberries	16.09	17.82	19.90	19.90	19.90	19.90
Tomatoes	37.68	35.59	33.74	33.15	32.34	31.57
Miscellaneous	11.60	11.60	11.60	11.60	11.60	11.60
Total	669.52	616.21	591.01	580.95	571.35	560.15

Industrial/Commercial and Mining/Dewatering Water Demand Projections

Introduction

In order to draft the legislatively mandated fifth-year update of the Regional Water Supply Plan (RWSP), water demand projections were compiled for all sixteen (16) counties within the District. Guidance for developing projections is contained in the publication *Final Report: Development and Reporting of Water Demand Projections in Florida's Water Supply Planning Process (April 1998)*. This guidance document was produced by the Water Demand Projection Subcommittee of the Water Planning Coordination Group. This group includes representatives from the Florida Department of Environmental Protection and each of the five water management districts.

This paper details the methodology used to develop water demand projections for industrial/commercial (I/C) and mining/dewatering (M/D) interests within the SWFWMD. I/C uses include chemical manufacturing, food processing, power generation, and miscellaneous I/C uses. While diversified, much of the water used in food processing can be attributed to citrus and other agricultural crops. For the most part, chemical manufacturing is closely associated with phosphate mining and consists mainly of phosphate processing. A number of different products are mined within the District's boundaries, including phosphate, limestone, shell, and sand. For the purposes of the water supply planning process, thermoelectric power generation (PG) is separated out as an individual use category. While the Water Demand Projection Subcommittee identified 0.1 million gallons per day (mgd) as the mandatory reporting threshold for the I/C and M/D categories, the SWFWMD examined and included all permitted or reported uses, regardless of the quantity in projecting demand. The decision to include all water use permits (WUPs), regardless of size, resulted from a belief that projection accuracy would be improved by capturing all available water use data.

Figure 4-2A is a graph of historical and projected water use. Figure 4-3A is a map displaying the net change in water use from 2000-2025, by county. Table 4-16A, found in the summary, highlights some of the water use projection data from Table 4-19A. Table 4-17A (Percentage of Permitted Quantity Used) details the percentage of water used in relation to the actual permitted quantity for the years 1994 through 2001 for both the I/C and M/D category. Table 4-17A further delineates the 1998 through 2001 four year average for each category, used to project demand. Table 4-18A lists the correlative data for all I/C, M/D, and PG water use permits for which water demand projections were developed. Table 4-19A is closely related to Table 4-18A, but contains 2000 usage data and water demand projections in five-year intervals from 2005 through 2025, rather than statistical data. (Note: Demand projections for the previous, that is, the 2001 edition of the RWSP utilized the percentage of water used in relation to the actual permitted quantity for the years 1994 through 1998.) With the availability of data for the years 1999 through 2001, the percentages used to project demand have been updated to include the three additional years of recent usage data.

Data Gathering

District rules require a water use permit (WUP) for uses where the withdrawal during any single day is one million (1,000,000) gallons, if the average annual daily withdrawal is equal to or greater than one hundred thousand (100,000) gpd, or if the withdrawal is from a well having an inside diameter of six-inches (6") or more. Because of the six-inch diameter provision, the reporting threshold of 0.1 mgd for I/C and M/D adopted by the Demand Projection Subcommittee is not equivalent to the District's permitting threshold. Some I/C permittees with

Figure 4-2A. Historical and Projected Water Use
Indistrict/Commercial, Mining/Dewatering and Power Generation Demands
SWFWMD RWSP / July 2003

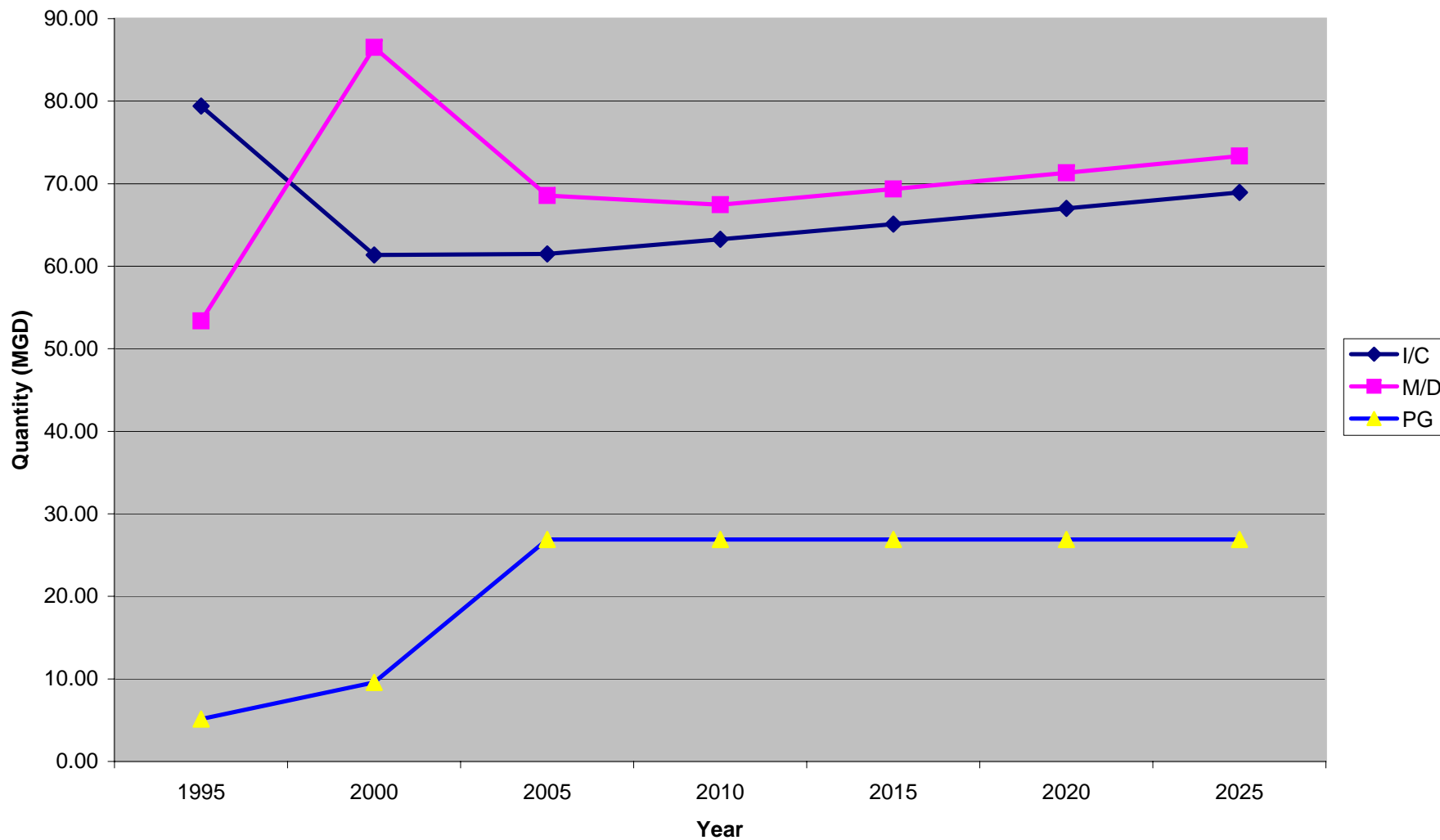
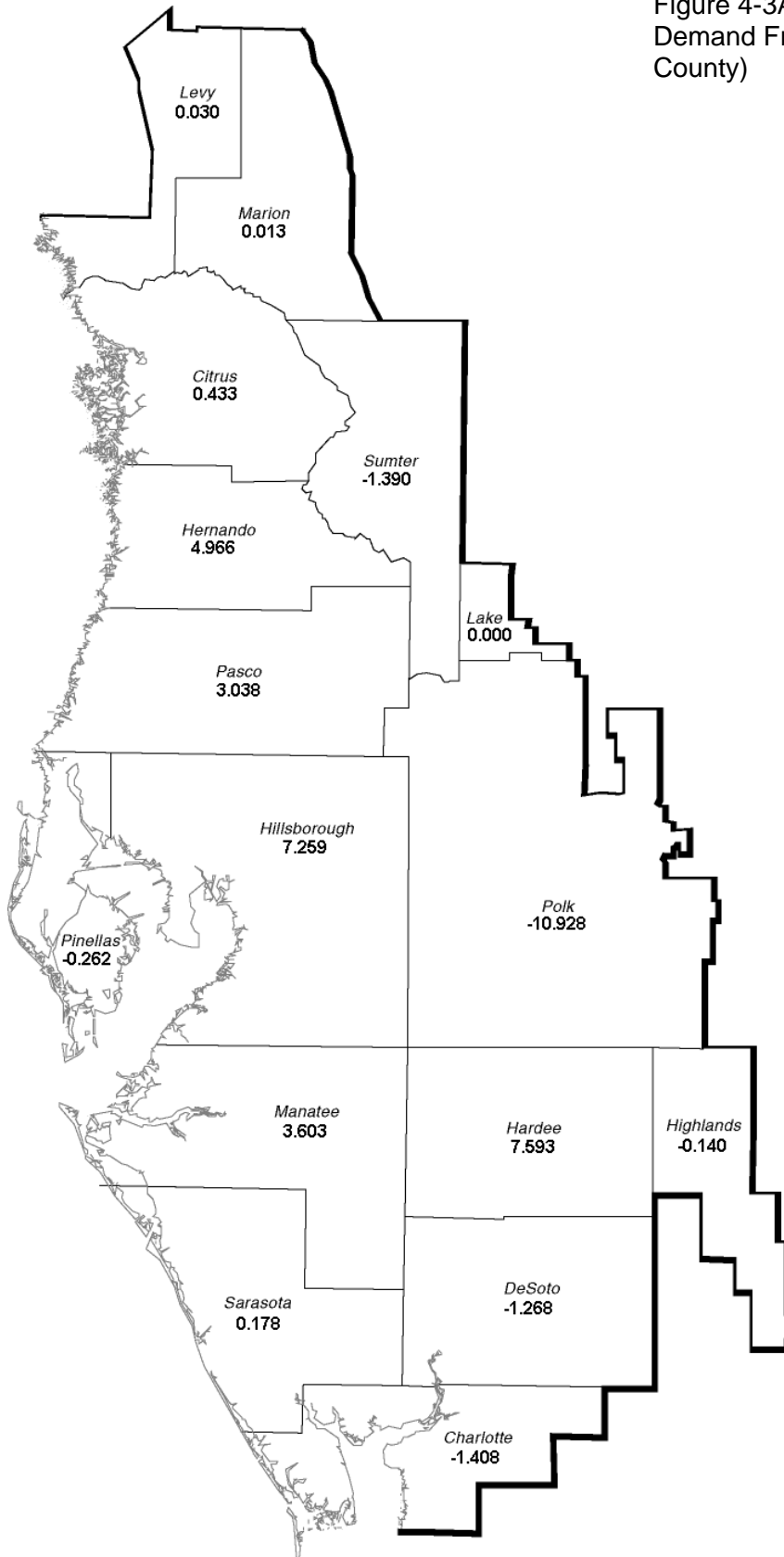


Figure 4-3A. Net Change in Water Demand From 2000 to 2025 (by County)



six-inch or larger wells are permitted for quantities as small as 100 gpd. On the other hand, a self-supplied water user with a well smaller than six-inches may withdraw thousands of gallons a day, yet be exempt from WUP requirements (if they withdraw less than 100,000 gpd). Since WUP information is contained in the District's regulatory data base, it was used to identify all water use permits which included any permitted quantities for use codes indicating I/C or M/D operations in the sixteen (16) county planning area. A total of three hundred fifty-six (356) individual I/C and M/D permits were identified. In gathering data for the initial RWSP (in 2001), a survey form was sent to all permit holders. The survey requested the permit holder supply information related to anticipated water needs at five-year intervals from 2000 to 2020, as well as existing or planned conservation measures. In addition, telephone contact was attempted with each permittee to explain the purpose of the survey. This whole process was time intensive. Further, the data submitted by permittees was determined to be invalid (overinflated), and ultimately discarded. As a result, universal contact with permittees was not attempted for the 2005 update of the RWSP.

As stated above, some self-supplied small users are not issued WUPs (under 100,000 gpd or well diameter smaller than 6-inches). Consequently, an undetermined amount of M/D and I/C use is not reported. Without a WUP, there is no practical way to identify small commercial operations which fall below the District's permitting threshold. For example, every fast food restaurant is actually a commercial operation, using a daily quantity of water that most likely falls below the District's permitting threshold. However, many of these small I/C operations are located in urban areas, obtain their water via the public supply system rather than wells, and will be accounted for under the demand projections for public supply.

Background Information

For the 2006 RWSP, 2000 was selected as the starting point, or baseline year, for the purpose of developing and reporting water demand projections. This is consistent with the methodology agreed upon by the Water Planning Coordination Group. When the first RWSP was completed, it was noted that "the District has experienced a tremendous amount of volatility in the number of I/C and M/D WUPs in a short period of time." Because current projections are based on all WUPs and not just those exceeding 100,000 gpd, and will include all 16 counties rather than the ten used the first time around, an examination of permit volatility could be misleading. However, a comparison of currently existing WUPs issued for more than 100,000 gpd in the original ten county area with those that were used for the 2001 RWSP indicates that permit volatility remains a major concern. Comparing only those permits reveals that there are 15 fewer I/C and M/D permits in 2003 than in 1999 (resulting from the issue of 22 new permits and the deletion of 37 others). This equates to a net change of 12.4% in total permits in the four year period between 1999 and 2003, but a change of 48.7% in the identities of WUP holders. Therefore, permit volatility must be considered when attempting to project water demand over a 20-year period. Also, the ongoing battle between mining interests and Charlotte County will likely continue for some time before resolution. This makes accurate demand projection in the southern counties even more difficult.

Projection Methodology

Projections for 2005 were developed by multiplying the 2003 permitted quantity by the percentage of actual use for the I/C and M/D categories on a county-by-county basis. The permit data was extracted from the District's Regulatory Data Base (RDB) on January 24, 2003. It is conceivable, even probable, that new permits have been issued and others have been deleted or expired since January 24th. As stated in the previous section, permit volatility results

in a RDB that is ever changing. Thus, the 2005 projections are based upon a "snapshot in time." The percentage of permitted quantity used in each county was calculated by dividing total estimated county use by the county's permitted quantity in each category for the years 1998 through 2001, using data extracted from the District's yearly Estimated Water Use reports. During this four year period, 40.6% of M/D permitted quantities, and 48.7% of I/C permitted quantities were actually reported as used District-wide. However, the percentage of permitted quantity actually used in the I/C and M/D categories varies significantly from county-to-county, as indicated in Table 4-17A. When data was available, the percentage of permitted quantity actually used by each PG WUP holder was calculated and used to project water demand on a permit-by-permit basis. Even though PG is being treated as a separate entity for the purpose of the RWSP, it is in the I/C sector, so the I/C percentage for each county was used to project PG water demand when data was not available for individual PG WUPs. It is expected that I/C and M/D water use will remain relatively constant or increase slightly over the twenty (20) year period from 2005 through 2025. The 5-year interval projections (2010, 2015, 2020, and 2025) assume a modest demand increase of three percent (3%) every five years, except for PG demand, which was projected steady (flat; with no increase) over the 20 year period. This projection methodology, based on percentage of permitted quantity actually used, was chosen because it proved to be more accurate in the 2001 RWSP than projections based upon permittee supplied data.

Regulatory/IAC Review

After all data was collected and tabulated, it was provided to the appropriate service office for review by regulatory staff. Regulatory staff were asked to review all projections. Because of their close working relationship with water use permit holders, the hydrologists who are responsible for issuance of water use permits are in a unique position to review water use projections. Projections revised by regulatory staff are identified in Table 4-19A in the column labeled as **Source**. The projections were presented to and reviewed by the Industrial Advisory Committee (IAC).

Summary

Table 4-19A details historic usage data and water demand projections out to the year 2025. It indicates a small increase in demand from 2005 to 2025. The data in Table 4-16A was extracted from Table 4-19A. The projections are consistent with feedback obtained in 2000 by calling several members of the District's IAC. Most of the committee members contacted expressed the opinion that I/C and M/D water use will remain relatively constant or increase slightly over the next twenty (20) years. A couple of the IAC representatives expressed concern that water use in the I/C and M/D sectors is affected by the economic climate, and stressed that the economy had been good in recent years, but could take a downward turn in the future (which it has apparently done). If the volatility in permit numbers observed between 1995 and 1999 is typical, it can be assumed that the majority of permits existing in 1999 when the first RWSP was completed will not exist in 2025. The deletion of at least 27 existing I/C and M/D permits between 1999 and the present time certainly indicates that, in this sector, permit volatility is normal, and would seem to confirm this assumption. Additionally, many new permits will be issued in the years before 2025, some of which will likely become inactive or nonexistent by 2025. Many will change hands through corporate buyout, or be reclassified due to land use changes. All these factors incorporate a high degree of uncertainty into the long range projections. This potential for inaccuracy must be considered when utilizing long range I/C and M/D projections to make decisions regarding future water supply development projects.

Table 4-16A. Historic Usage and Water Demand Projections in 16 County Area.

Water Use by Use Category	<u>2000</u> Baseline WUE Usage (mgd)	<u>2005</u> Water Demand Projection (mgd)	<u>2015</u> Water Demand Projection (mgd)	<u>2025</u> Water Demand Projection (mgd)
Industrial/Commercial	61.3 ^{Note 1}	61.5	65.1	68.9
Mining/Dewatering	86.5 ^{Note 2}	68.6	69.4	73.3
Power Generation	9.6 ^{Note 3}	26.9	26.9	26.9
Water Use by Planning Region	The totals below for the southern water use caution area (SWUCA), the three planning regions, and the sixteen county area represent the total combined quantities used in 2000 and projected for 2005 through 2025 for the three use categories above.			
SWUCA	97.5 ^{Note 4}	91.5	92.7	97.2
NON-SWUCA	60.0	65.5	68.7	72.0
Sixteen County Total	157.5 ^{Note 2}	157.0	161.4	169.2

Table Updated: 05/07/03

Note 1 From 2000 Estimated Water Use, Table B-2, minus amounts identified as PG in the 2000 Estimated Water Use, Table A-11

Note 2 From 2000 Estimated Water Use, Table B-1

Note 3 From 2000 Estimated Water Use, Extracted from Table A-11

Note 4 From 2000 Estimated Water Use, Tables A-9 and A-11, for permits identified in the Regulatory

Database as being located in the SWUCA.

Table 4-17A. Percentage of Mining/Dewatering and Industrial/Commercial Permitted Quantity Used, and Summary by County.

MINING/DEWATERING

COUNTY	1994			1995			1996			1997		
	AVERAGE DAILY PERMITTED (Table C-1)	REPORTED USAGE (Table 8)	% OF PERMITTED USED	AVERAGE DAILY PERMITTED (Table C-1)	REPORTED USAGE (Table 8)	% OF PERMITTED USED	AVERAGE DAILY PERMITTED (Table C-1)	REPORTED USAGE (Table 8)	% OF PERMITTED USED	AVERAGE DAILY PERMITTED (Table C-1)	REPORTED USAGE (Table 9)	% OF PERMITTED USED
CHARLOTTE	14.394	4.797	33.3%	13.064	4.992	38.2%	9.056	2.743	30.3%	7.665	1.349	17.6%
CITRUS	10.982	5.296	48.2%	24.182	5.664	23.4%	24.182	7.643	31.6%	24.182	9.245	38.2%
DESOTO	3.399	1.017	29.9%	3.879	0.387	10.0%	3.452	0.974	28.2%	3.022	0.093	3.1%
HARDEE	7.468	0.007	0.1%	10.301	2.767	26.9%	7.602	6.852	90.1%	7.602	2.211	29.1%
HERNANDO	20.662	8.940	43.3%	20.662	8.886	43.0%	12.452	5.935	47.7%	14.062	11.188	79.6%
HIGHLANDS	1.494	0.930	62.2%	1.494	0.848	56.8%	1.494	0.839	56.2%	1.441	0.743	51.6%
HILLSBOROUGH	28.475	8.834	31.0%	28.904	5.556	19.2%	9.256	1.367	14.8%	8.976	1.326	14.8%
LAKE	0.000	0.000	N/A	0.000	0.000	N/A	0.000	0.000	N/A	0.000	0.000	N/A
LEVY	0.000	0.000	N/A	0.000	0.000	N/A	0.000	0.000	N/A	0.000	0.000	N/A
MANATEE	19.357	0.154	0.8%	19.086	0.252	1.3%	19.086	0.586	3.1%	19.559	0.634	3.2%
MARION	0.000	0.000	N/A	0.000	0.000	N/A	0.000	0.000	N/A	0.000	0.000	N/A
PASCO	12.284	13.566	110.4%	12.665	11.695	92.3%	13.223	11.680	88.3%	13.289	8.828	66.4%
PINELLAS	0.172	0.428	248.8%	0.172	0.060	34.9%	0.581	0.226	38.9%	0.581	0.052	9.0%
POLK	171.246	60.760	35.5%	161.894	52.896	32.7%	142.444	45.883	32.2%	136.385	59.786	43.8%
SARASOTA	3.602	4.021	111.6%	5.694	5.042	88.5%	5.573	2.249	40.4%	4.497	1.014	22.5%
SUMTER	70.176	30.803	43.9%	89.201	53.387	59.9%	89.487	26.940	30.1%	89.487	23.847	26.6%
TOTAL:	363.711	139.553	38.4%	391.198	152.432	39.0%	337.888	113.917	33.7%	330.748	120.316	36.4%

COUNTY	1998			1999			2000			2001		
	AVERAGE DAILY PERMITTED (Table C-1)	REPORTED USAGE (Table 9)	% OF PERMITTED USED	AVERAGE DAILY PERMITTED (Table C-1)	REPORTED USAGE (Table 9)	% OF PERMITTED USED	AVERAGE DAILY PERMITTED (Table C-1)	BASELINE YR REPORTED USAGE (Table 9)	% OF PERMITTED USED	AVERAGE DAILY PERMITTED (Table C-1)	REPORTED USAGE (Table 9)	% OF PERMITTED USED
CHARLOTTE	4.563	1.362	29.8%	4.631	1.079	23.3%	2.521	1.589	63.0%	1.676	0.524	31.3%
CITRUS	7.474	5.945	79.5%	7.473	0.947	12.7%	7.541	0.907	12.0%	7.541	0.799	10.6%
DESOTO	2.600	0.190	7.3%	2.369	0.200	8.4%	2.369	1.335	56.4%	2.369	0.134	5.7%
HARDEE	7.602	0.409	5.4%	7.594	4.022	53.0%	7.594	5.783	76.2%	25.551	2.961	11.6%
HERNANDO	13.549	7.042	52.0%	13.549	17.119	126.3%	13.549	13.762	101.6%	13.550	11.652	86.0%
HIGHLANDS	1.441	0.634	44.0%	0.026	0.019	73.1%	0.026	0.024	92.3%	0.026	0.024	92.3%
HILLSBOROUGH	8.729	2.312	26.5%	8.661	1.644	19.0%	8.098	4.901	60.5%	14.328	4.709	32.9%
LAKE	0.000	0.000	N/A	0.000	0.000	N/A	0.000	0.000	N/A	0.000	0.000	N/A
LEVY	0.000	0.000	N/A	0.000	0.000	N/A	0.000	0.000	N/A	0.000	0.000	N/A
MANATEE	7.410	2.078	28.0%	7.410	5.565	75.1%	7.410	0.806	10.9%	7.410	0.453	6.1%
MARION	0.000	0.000	N/A	0.000	0.000	N/A	0.000	0.000	N/A	0.000	0.000	N/A
PASCO	7.177	3.946	55.0%	6.330	1.476	23.3%	6.699	0.657	9.8%	6.549	0.329	5.0%
PINELLAS	0.677	0.164	24.2%	0.828	0.230	27.8%	0.903	0.514	56.9%	0.752	0.092	12.2%
POLK	124.278	54.566	43.9%	102.112	40.440	39.6%	86.731	38.926	44.9%	61.996	29.295	47.3%
SARASOTA	3.297	0.650	19.7%	2.523	1.124	44.6%	2.523	0.327	13.0%	2.523	0.460	18.2%
SUMTER	89.397	35.323	39.5%	84.837	33.543	39.5%	65.496	16.983	25.9%	51.191	18.664	36.5%
TOTAL:	278.194	114.621	41.2%	248.343	107.408	43.2%	211.460	86.514	40.9%	195.462	70.096	35.9%

Table 4-17A. Percentage of Mining/Dewatering and Industrial/Commercial Permitted Quantity Used, and Summary by County.

INDUSTRIAL/COMMERCIAL (Including Power Generation)

COUNTY	1994			1995			1996			1997		
	AVERAGE DAILY PERMITTED (Table C-1)	REPORTED USAGE (Table 8)	% OF PERMITTED USED	AVERAGE DAILY PERMITTED (Table C-1)	REPORTED USAGE (Table 8)	% OF PERMITTED USED	AVERAGE DAILY PERMITTED (Table C-1)	REPORTED USAGE (Table 8)	% OF PERMITTED USED	AVERAGE DAILY PERMITTED (Table C-1)	REPORTED USAGE (Table 9)	% OF PERMITTED USED
CHARLOTTE	0.093	0.029	31.2%	0.093	0.043	46.2%	0.053	0.016	30.2%	0.053	0.016	30.2%
CITRUS	1.094	0.746	68.2%	1.431	0.798	55.8%	1.431	0.909	63.5%	1.391	0.816	58.7%
DESOTO	0.011	0.007	63.6%	0.100	0.022	22.0%	0.100	0.029	29.0%	0.100	0.029	29.0%
HARDEE	0.122	0.056	45.9%	0.122	0.046	37.7%	0.122	0.067	54.9%	0.122	0.111	91.0%
HERNANDO	23.377	6.523	27.9%	23.363	5.784	24.8%	23.363	6.841	29.3%	23.023	8.610	37.4%
HIGHLANDS	5.235	0.309	5.9%	5.235	0.268	5.1%	5.231	0.253	4.8%	5.231	0.157	3.0%
HILLSBOROUGH	24.466	29.274	119.7%	24.163	27.591	114.2%	21.906	16.602	75.8%	22.728	15.330	67.4%
LAKE	0.000	0.000	N/A	0.000	0.000	N/A	0.000	0.000	N/A	0.000	0.000	N/A
LEVY	0.002	0.001	50.0%	0.002	0.001	50.0%	0.002	0.001	50.0%	0.002	0.001	50.0%
MANATEE	2.190	0.577	26.3%	2.190	0.577	26.3%	2.190	0.564	25.8%	2.230	0.565	25.3%
MARION	0.591	1.488	251.8%	0.591	0.058	9.8%	0.573	0.092	16.1%	0.573	0.073	12.7%
PASCO	17.754	12.891	72.6%	17.330	9.697	56.0%	17.753	8.636	48.6%	17.781	8.560	48.1%
PINELLAS	0.309	0.185	59.9%	0.307	0.045	14.7%	0.307	0.134	43.6%	0.307	0.076	24.8%
POLK	93.365	44.348	47.5%	89.017	39.334	44.2%	72.060	31.543	43.8%	68.420	41.045	60.0%
SARASOTA	0.294	0.108	36.7%	0.300	0.075	25.0%	0.275	0.092	33.5%	0.279	0.112	19.3%
SUMTER	0.356	0.110	30.9%	0.442	0.198	44.8%	0.438	0.208	47.5%	0.461	0.252	54.7%
TOTAL:	169.259	96.652	57.1%	164.686	84.537	51.3%	145.804	65.987	45.3%	143.001	75.753	53.0%

COUNTY	1998			1999			2000			2001		
	AVERAGE DAILY PERMITTED (Table C-1)	REPORTED USAGE (Table 9)	% OF PERMITTED USED	AVERAGE DAILY PERMITTED (Table C-1)	REPORTED USAGE (Table 9)	% OF PERMITTED USED	AVERAGE DAILY PERMITTED (Table C-1)	BASELINE YR REPORTED USAGE (Table 9)	% OF PERMITTED USED	AVERAGE DAILY PERMITTED (Table C-1)	REPORTED USAGE (Table 9)	% OF PERMITTED USED
CHARLOTTE	0.054	0.020	37.0%	0.054	0.019	35.2%	0.064	0.032	50.0%	0.064	0.017	26.6%
CITRUS	1.386	0.950	68.5%	1.386	0.871	62.8%	1.388	0.861	62.0%	1.646	0.881	53.5%
DESOTO	0.100	0.033	33.0%	0.100	0.035	35.0%	0.100	0.048	48.0%	0.178	0.048	27.0%
HARDEE	0.122	0.126	103.3%	0.121	0.122	100.8%	0.343	0.144	42.0%	4.325	0.217	5.0%
HERNANDO	23.020	8.080	35.1%	23.039	8.793	38.2%	23.053	6.013	26.1%	23.053	10.242	44.4%
HIGHLANDS	0.560	0.253	45.2%	0.556	0.254	45.7%	0.485	0.306	63.1%	0.481	0.195	40.5%
HILLSBOROUGH	22.713	14.514	63.9%	22.225	14.235	64.0%	21.964	14.768	67.2%	23.233	13.424	57.8%
LAKE	0.000	0.000	N/A	0.000	0.000	N/A	0.000	0.000	N/A	0.000	0.000	N/A
LEVY	0.002	0.001	50.0%	0.002	0.001	50.0%	0.011	0.009	81.8%	0.110	0.029	26.4%
MANATEE	2.251	1.126	50.0%	1.700	0.245	14.4%	1.804	0.200	11.1%	3.319	0.243	7.3%
MARION	0.573	0.130	22.7%	0.613	0.147	24.0%	0.601	0.132	22.0%	0.601	0.101	16.8%
PASCO	17.781	8.526	48.0%	17.727	7.676	43.3%	17.802	4.989	28.0%	17.921	3.292	18.4%
PINELLAS	0.307	0.135	44.0%	0.367	0.143	39.0%	0.367	0.132	36.0%	0.368	0.078	21.2%
POLK	74.093	43.661	58.9%	69.675	40.977	58.8%	73.950	42.635	57.7%	94.529	38.467	40.7%
SARASOTA	0.579	0.115	19.9%	0.484	0.291	60.1%	0.441	0.318	72.1%	0.440	0.180	40.9%
SUMTER	0.764	0.258	33.8%	0.786	0.348	44.3%	0.648	0.357	55.1%	0.611	0.231	37.8%
TOTAL:	144.305	77.928	54.0%	138.835	74.157	53.4%	143.021	70.944	49.6%	170.879	67.645	39.6%

Table 4-17A. Percentage of Mining/Dewatering and Industrial/Commercial Permitted Quantity Used, and Summary by County.

1998-2001 SUMMARY		
PERCENTAGE OF PERMITTED QUANTITY USED 1998 - 2001, BY COUNTY (SUMMARY)		
	<u>I/C</u>	<u>M/D</u>
CHARLOTTE	37.3%	34.0%
CITRUS	61.4%	28.6%
DESOTO	34.3%	19.2%
HARDEE	12.5%	27.3%
HERNANDO	35.9%	91.5%
HIGHLANDS	48.4%	46.1%
HILLSBOROUGH	63.2%	39.5%
LAKE	N/A	N/A
LEVY	32.0%	N/A
MANATEE	20.0%	30.0%
MARION	21.4%	N/A
PASCO	34.4%	24.0%
PINELLAS	34.6%	31.6%
POLK	53.1%	42.9%
SARASOTA	46.5%	23.6%
SUMTER	42.5%	35.9%
DISTRICT AVERAGE:	48.7%	40.6%

Table 4-18A. Correlative Data; Industrial/Commercial and Mining /Watering WUPs.

PERMIT NUMBER	REV #	USE	COUNTY	<u>PERMITTED</u>	<u>I/C, M/D & PG Demand</u>			<u>NON I/C, M/D & PG Demand</u>			PERMITEE NAME
				AVG DAILY PERMITTED QUANTITY (As of 01/24/2003)	QUANTITY PERMITTED FOR I/C PURPOSES	QUANTITY PERMITTED FOR M/D PURPOSES	QUANTITY PERMITTED FOR PG PURPOSES	QUANTITY PERMITTED FOR AG PURPOSES	QUANTITY PERMITTED FOR PS PURPOSES	QUANTITY PERMITTED FOR REC PURPOSES	
007871	.002	I/C	CHARLOTTE	12,500	12,500						KREHLING INDUSTRIES
009180	.002	I/C	CHARLOTTE	46,700	46,700						SCHWAB READY MIX INC
009322	.004	M/D	CHARLOTTE	4,000		4,000					HIGHLANDS CO BOCC
009778	.004	M/D	CHARLOTTE	5,500		5,500					HANDY PHIL INC
009898	.005	M/D	CHARLOTTE	388,000		388,000					FLORIDA STATE PROPERTIES INC
010193	.002	M/D	CHARLOTTE	400,000		400,000					DON DESROSIERS
010217	.001	M/D	CHARLOTTE	123,000		123,000					DIETRICH F ROSENBURG
010218	.005	M/D	CHARLOTTE	23,000		23,000					J MICHAEL ROONEY & STEVEN V HALL
010237	.003	M/D	CHARLOTTE	67,000		67,000					JONES GROVE PARTNERSHIP
010554	.002	I/C	CHARLOTTE	2,000	1,000	1,000					FORESBERG CONST INC & ROBERT N
010891	.002	M/D	CHARLOTTE	8,000		8,000					DAVID K SMITH
010942	.001	M/D	CHARLOTTE	323,000		323,000					TYLER TROPICAL FISH
011222	.005	M/D	CHARLOTTE	35,700		35,700					NESLUND FAMILY LTD PTNSHP II
011560	.001	M/D	CHARLOTTE	2,700		2,700					D & M CONSTRUCTION CORPORATION
011613	.002	M/D	CHARLOTTE	6,000		6,000					DINER CITRUS & CATTLE CO
011681	.001	M/D	CHARLOTTE	20,000		20,000					RANDY A WOJCIK/J DUFF & J FULLER
011968	.000	M/D	CHARLOTTE	27,500		27,500					ROTONDA SANDS CONSERVATION ASSOC
011989	.001	M/D	CHARLOTTE	29,000		21,000			8,000		GATOR WILDERNESS CAMP SCHOOL INC
011996	.001	M/D	CHARLOTTE	40,200		40,200					QUALITY MATERIALS INC
012019	.002	M/D	CHARLOTTE	12,000		12,000					FLORIDA LAKES INC
012050	.001	I/C	CHARLOTTE	10,000	10,000						KREHLING INDUSTRIES
012337	.000	M/D	CHARLOTTE	6,400		6,400					PINEMOOR GOLF INC
TOTALS (mgd):				1.592	0.070	1.514	0.000	0.000	0.000	0.008	

Table 4-18A. Correlative Data; Industrial/Commercial and Mining /Watering WUPs.

PERMIT NUMBER	REV #	USE	COUNTY	<u>PERMITTED</u>	<u>I/C, M/D & PG Demand</u>			<u>NON I/C, M/D & PG Demand</u>			PERMITEE NAME
				AVG DAILY PERMITTED QUANTITY (As of 01/24/2003)	QUANTITY PERMITTED FOR I/C PURPOSES	QUANTITY PERMITTED FOR M/D PURPOSES	QUANTITY PERMITTED FOR PG PURPOSES	QUANTITY PERMITTED FOR AG PURPOSES	QUANTITY PERMITTED FOR PS PURPOSES	QUANTITY PERMITTED FOR REC PURPOSES	
003672	.000	PG	CITRUS	1,000,000			1,000,000				FLORIDA POWER CORPORATION
004695	.003	PG	CITRUS	1,000,000			1,000,000				FLORIDA POWER CORPORATION
007006	.001	I/C	CITRUS	10,000	7,900				2,100		CITRUS WELL DRILLING
007352	.001	I/C	CITRUS	2,600	2,600						KELLY GARDINER
007662	.002	I/C	CITRUS	30,000	30,000					2,000	CHAMPS SOFTWARE INC
007687	.006	M/D	CITRUS	827,600		826,000		1,600			CRYSTAL RIVER QUARRIES INC
007819	.008	M/D	CITRUS	492,000		492,000					INDEPENDENT AGGREGATES & DIXIE
008874	.001	I/C	CITRUS	1,400	1,400						GTE FEDERAL CREDIT UNION
009115	.001	I/C	CITRUS	1,000	1,000						TRU GAS OF FLORIDA, INC.
009329	.002	I/C	CITRUS	1,000	1,000						MIDWEST BOTTLE GAS CO
010166	.000	I/C	CITRUS	8,500	8,500						EDWARD J. DEBARTOLO CORPORATION
010247	.000	I/C	CITRUS	1,000	1,000						CITRUS CO BOCC-ENGINEERING DEPT
010842	.000	I/C	CITRUS	6,100	3,500			2,600			CITRUS CO BOCC & DEPT OF PUBLIC
011281	.002	I/C	CITRUS	364,300	364,300						METAL INDUSTRIES INC
011801	.000	I/C	CITRUS	224,000	224,000						THREE SISTERS SPRINGS WATER CO
012049	.000	I/C	CITRUS	1,000	1,000						CITRUS COUNTY
012058	.000	M/D	CITRUS	67,300		67,300					GRUBBS CONSTRUCTION CO
TOTALS (mgd):				4.038	0.646	1.385	2.000	0.004	0.002	0.002	

Table 4-18A. Correlative Data; Industrial/Commercial and Mining /Watering WUPs.

PERMIT NUMBER	REV #	USE	COUNTY	<u>PERMITTED</u>	<u>I/C, M/D & PG Demand</u>			<u>NON I/C, M/D & PG Demand</u>			PERMITEE NAME	
				AVG DAILY PERMITTED QUANTITY (As of 01/24/2003)	QUANTITY PERMITTED FOR I/C PURPOSES	QUANTITY PERMITTED FOR M/D PURPOSES	QUANTITY PERMITTED FOR PG PURPOSES	QUANTITY PERMITTED FOR AG PURPOSES	QUANTITY PERMITTED FOR PS PURPOSES	QUANTITY PERMITTED FOR REC PURPOSES		
000070	.005	I/C	DESOTO	103,400	99,500						3,900	PEACE RIVER CITRUS PRODUCTS
002456	.003	M/D	DESOTO	480,000		480,000						RAYMOND J & JULIE MARIE SMITH
002914	.008	M/D	DESOTO	18,000		18,000						JAMES D WOODSON JR
009376	.002	M/D	DESOTO	57,600		57,600						LAWRENCE I & RUTH H DAVIS
010200	.005	M/D	DESOTO	53,000		53,000						QUIDO MARXER TRUST
010211	.002	M/D	DESOTO	9,600		9,600						D L BRANTLEY JR
010673	.003	M/D	DESOTO	226,200		226,200						BORAN DEANGELIS GARGUILO
010905	.002	M/D	DESOTO	6,800		6,800						GEORGE COLEMAN & ADRIAN R
011156	.001	M/D	DESOTO	328,200		328,200						JAMES E DYKE
012131	.002	PG	DESOTO	85,900			78,000				7,900	DESOTO CO GENERATING CO LLC
TOTALS (mgd):				1.369	0.100	1.179	0.078	0.000	0.000	0.012		
000029	.009	M/D	HARDEE (formerly Polk)	11,486,000		11,486,000						CARGILL FERTILIZER INC
002297	.011	I/C	HARDEE	17,864,000	5,900	17,858,100						CARGILL FERTILIZER INC
002494	.005	I/C	HARDEE	98,000	98,000							THE MANCINI PACKING COMPANY
003669	.007	M/D	HARDEE	7,605,100		6,594,500		10,600				CF INDUSTRIES INC
009731	.002	PG	HARDEE	3,800,000			3,800,000					HARDEE POWER PARTNERS
010924	.001	I/C	HARDEE	17,700	17,700							ALL FLORIDA JUICE CORPORATION &
011122	.001	PG	HARDEE	3,800,000			3,800,000					SEMINOLE ELECTRIC COOPERATIVE,
011400	.018	M/D	HARDEE	223,000	77,000	146,000						IMC PHOSPHATES CO
012036	.001	PG	HARDEE	132,400			132,400					GRANITE POWER PARTNERS II LP
012048	.002	PG	HARDEE	218,000			212,000				6,000	VANDOLAH POWER COMPANY LLC
012352	.000	M/D	HARDEE	8,000		8,000						LARRY DAVIS INC
TOTALS (mgd):				45.252	0.199	36.093	7.944	0.011	0.000	0.006		

Table 4-18A. Correlative Data; Industrial/Commercial and Mining /Watering WUPs.

PERMIT NUMBER	REV #	USE	COUNTY	<u>PERMITTED</u>	<u>I/C, M/D & PG Demand</u>			<u>NON I/C, M/D & PG Demand</u>			PERMITEE NAME
				AVG DAILY PERMITTED QUANTITY (As of 01/24/2003)	QUANTITY PERMITTED FOR I/C PURPOSES	QUANTITY PERMITTED FOR M/D PURPOSES	QUANTITY PERMITTED FOR PG PURPOSES	QUANTITY PERMITTED FOR AG PURPOSES	QUANTITY PERMITTED FOR PS PURPOSES	QUANTITY PERMITTED FOR REC PURPOSES	
000065	.004	I/C	HERNANDO	14,000	14,000						CITRUS SERVICE INC
000199	.004	M/D	HERNANDO	6,155,200		6,155,200					FLORIDA ROCK INDUSTRIES INC
000215	.009	M/D	HERNANDO	6,785,500		6,785,500					CSR RINKER & FLORIDA CRUSHED
002286	.004	I/C	HERNANDO	2,890,000	2,890,000						CEMEX
002288	.004	M/D	HERNANDO	6,680,000		6,680,000					VULCAN/ICA DISTRIBUTION CO &
006756	.001	I/C	HERNANDO	15,000	14,000				1,000		TARMAC FLORIDA, INC.
006946	.003	I/C	HERNANDO	37,800	37,800						SPARTAN ELECTRONICS
007015	.000	PG	HERNANDO	20,080,000	20,080,000						FLORIDA CRUSHED STONE CO
007822	.002	M/D	HERNANDO	84,000		84,000					MILLS LAND MANAGEMENT CORP &
010249	.000	I/C	HERNANDO	1,700	1,700						HERNANDO COUNTY UTILITIES
TOTALS (mgd):				42.743	23.038	19.705	0.000	0.000	0.001	0.000	
004086	.008	I/C	HIGHLANDS	192,200	156,500			33,500			SUNPURE LTD
007068	.002	I/C	HIGHLANDS	60,000	60,000						DOUGLASS FERTILIZER & CHEMICAL
007556	.003	I/C	HIGHLANDS	14,600	13,500						1,100 FOUNTAINHEAD CONDOMINUM APTS INC
007760	.003	I/C	HIGHLANDS	7,000	4,800						2,200 FIRST UNION NATIONAL BANK
007761	.003	I/C	HIGHLANDS	72,000	60,000						12,000 GEORGIA PACIFIC CORP
008460	.003	I/C	HIGHLANDS	24,700	19,600						5,100 TWYFORD INTERNATIONAL INC
010547	.005	M/D	HIGHLANDS	25,900		25,900					TUBBS FAMILY ENTERPRISES
010866	.001	I/C	HIGHLANDS	9,300	7,300						2,000 ARCHBOLD EXPEDITIONS
012272	.002	I/C	HIGHLANDS	3,500	2,400						1,100 TRIANGLE CHEMICAL COMPANY
TOTALS (mgd):				0.409	0.324	0.026	0.000	0.034	0.000	0.026	

Table 4-18A. Correlative Data; Industrial/Commercial and Mining /Watering WUPs.

PERMIT NUMBER	REV #	USE	COUNTY	<u>PERMITTED</u>	<u>I/C, M/D & PG Demand</u>			<u>NON I/C, M/D & PG Demand</u>			PERMITEE NAME
				AVG DAILY PERMITTED QUANTITY (As of 01/24/2003)	QUANTITY PERMITTED FOR I/C PURPOSES	QUANTITY PERMITTED FOR M/D PURPOSES	QUANTITY PERMITTED FOR PG PURPOSES	QUANTITY PERMITTED FOR AG PURPOSES	QUANTITY PERMITTED FOR PS PURPOSES	QUANTITY PERMITTED FOR REC PURPOSES	
000148	.003	I/C	HILLSBOROUGH	666,000	666,000						YUENGLING BREWING CO OF TAMPA
000158	.002	I/C	HILLSBOROUGH	3,200	3,200						WALTER INDUSTRIES, INC.
000229	.006	I/C	HILLSBOROUGH	180,300	180,300						TAMPA BAY FISHERIES INC
000253	.003	I/C	HILLSBOROUGH	1,500	1,500						TERRA ASGROW FLORIDA
000405	.005	I/C	HILLSBOROUGH	200,000	200,000						SEABOARD COLD STORAGE INC
000633	.003	I/C	HILLSBOROUGH	5,000	5,000						PACIFIC TOMATO GROWERS LIMITED
001415	.008	I/C	HILLSBOROUGH	4,051,000	4,051,000						CF INDUSTRIES, INC.
001529	.005	I/C	HILLSBOROUGH	5,900	5,900						JAMES HARDIE BLDG PRODUCTS INC
001532	.005	I/C	HILLSBOROUGH	5,985,000	5,970,000				15,000		CARGILL FERTILIZER INC
001861	.005	I/C	HILLSBOROUGH	10,640,000	10,640,000						CORONET IND
001930	.006	I/C	HILLSBOROUGH	346,000	346,000						NITRAM, INC.
001960	.011	I/C	HILLSBOROUGH	2,374,000	1,362,000				1,012,000		UNIVERSITY OF SOUTH FLORIDA
001973	.002	I/C	HILLSBOROUGH	200	200						AMERICAN BORROW PIT INC
002606	.003	I/C	HILLSBOROUGH	6,950	6,200				750		RUSKIN VEGETABLE CORPORATION
002630	.001	I/C	HILLSBOROUGH	14,500	14,500						YELVINGTON DISTRIBUTORS INC
002730	.003	I/C	HILLSBOROUGH	1,500	1,500						SPOTLESS CLEANERS & LAUNDRY INC
003050	.007	I/C	HILLSBOROUGH	3,400,000	3,400,000						IMC PHOSPHATES CO
003118	.004	I/C	HILLSBOROUGH	3,470,000	3,470,000						CRYSTALS INTERNATIONAL INC
003742	.003	I/C	HILLSBOROUGH	452,000	452,000						PARADISE FRUIT COMPANY, INC.
004416	.002	I/C	HILLSBOROUGH	74,600	74,600						KASH N KARRY FOOD STORES INC
004876	.002	I/C	HILLSBOROUGH	16,600	16,600						POE INDUSTRIES
005749	.002	I/C	HILLSBOROUGH	50,400	50,400						FLORIDA MINING & MATERIALS
006243	.002	I/C	HILLSBOROUGH	7,000	7,000						COOK LUMBER CO INC.
006677	.003	I/C	HILLSBOROUGH	15,000	15,000						RMC EWELL INC
006696	.002	I/C	HILLSBOROUGH	5,600	5,600						INTERNATIONAL SHIP REPAIR &
006823	.002	I/C	HILLSBOROUGH	30,000	30,000						ANTHONY & SALVATORE ITALIANO
007182	.001	I/C	HILLSBOROUGH	119,000	119,000						ALUMAX EXTRUSIONS INC
007751	.002	I/C	HILLSBOROUGH	10,100	10,100						UNIVERSITY COMMUNITY HOSPITAL
007816	.001	I/C	HILLSBOROUGH	8,300	8,300						PUBLIX SUPER MARKETS INC
008166	.003	I/C	HILLSBOROUGH	2,800	2,800						PLANTAIN PRODUCTS COMPANY INC
008406	.002	I/C	HILLSBOROUGH	10,000	10,000						CHARLES W POE IRREVOCABLE

Table 4-18A. Correlative Data; Industrial/Commercial and Mining /Watering WUPs.

PERMIT NUMBER	REV #	USE	COUNTY	<u>PERMITTED</u>	<u>I/C, M/D & PG Demand</u>			<u>NON I/C, M/D & PG Demand</u>			PERMITEE NAME
				AVG DAILY PERMITTED QUANTITY (As of 01/24/2003)	QUANTITY PERMITTED FOR I/C PURPOSES	QUANTITY PERMITTED FOR M/D PURPOSES	QUANTITY PERMITTED FOR PG PURPOSES	QUANTITY PERMITTED FOR AG PURPOSES	QUANTITY PERMITTED FOR PS PURPOSES	QUANTITY PERMITTED FOR REC PURPOSES	
008493	.005	I/C	HILLSBOROUGH	20,000	20,000						CEMEX INC
008634	.001	I/C	HILLSBOROUGH	3,900	3,900						FRANKLIN PACKAGING INC
008809	.001	I/C	HILLSBOROUGH	469,000	469,000						REYNOLDS METALS COMPANY
009259	.002	I/C	HILLSBOROUGH	59,300	59,300						HILLSBOROUGH CO WATER DEPT
009269	.001	I/C	HILLSBOROUGH	100	100						BOB TONEY CONSTRUCTION INC
009635	.002	I/C	HILLSBOROUGH	16,000	16,000						BAUSCH & LOMB PHARMACEUTICALS
009826	.000	I/C	HILLSBOROUGH	10,600	6,000				4,600		DIAMOND PRODUCTS COMPANY
010339	.000	I/C	HILLSBOROUGH	94,000	94,000						THE CLOROX COMPANY
010380	.003	I/C	HILLSBOROUGH	17,100	17,100						LIBERTY WASTE INC
010500	.001	I/C	HILLSBOROUGH	462,000	462,000						SINGLETON SEAFOOD CO
010812	.001	I/C	HILLSBOROUGH	3,000	3,000						SAFETY KLEEN CORPORATION
010863	.000	I/C	HILLSBOROUGH	1,400	1,400						GENERAL CABLE COMPANY
011030	.000	I/C	HILLSBOROUGH	2,100	2,100						POCAHONTAS FOOD SERVICE INC
011335	.001	I/C	HILLSBOROUGH	79,500	79,500						LAZY DAYS RV SUPERCENTER
011400	.018	M/D	HILLSBOROUGH	4,591,000	1,572,000	3,019,000					IMC PHOSPHATES CO
011510	.002	I/C	HILLSBOROUGH	18,000	18,000						RINKER MATERIALS CORP & CHARLES
011555	.000	I/C	HILLSBOROUGH	10,500	10,500						WEYERHAEUSER CO
011712	.001	I/C	HILLSBOROUGH	12,000	12,000						HILLSBOROUGH CO DEPT OF SOLID
011986	.000	I/C	HILLSBOROUGH	192,300	192,300						ST JOSEPHS HOSPITAL INC
012101	.002	I/C	HILLSBOROUGH	8,000	8,000						HANSON PIPE & PRODUCTS SE INC
012140	.000	I/C	HILLSBOROUGH	175,400	175,400						ST FRANCIS RESIDENCE INC
003960	.003	M/D	HILLSBOROUGH	95,000		95,000					CALOOSA SHELL CORP, C CARLTON,
006366	.005	M/D	HILLSBOROUGH	93,300		93,300					PHILLIPS & JORDAN INC
010462	.002	M/D	HILLSBOROUGH	323,000		323,000					ANNIE L & THERESA R BALLARD
010927	.001	M/D	HILLSBOROUGH	287,000		287,000					CONE CONSTRUCTORS INC
011471	.002	M/D	HILLSBOROUGH	81,000		81,000					PLEASANT VIEW LAND INC
011719	.001	M/D	HILLSBOROUGH	93,000		93,000					KRUSEN-DOUGLAS PARTNERSHIP &
011833	.000	M/D	HILLSBOROUGH	64,000		64,000					BUTTREY DEVELOPMENT LLC
011845	.001	M/D	HILLSBOROUGH	446,000		268,000			178,000		FL TAMPA WEST INC
011974	.001	M/D	HILLSBOROUGH	75,400		75,400					US HOME CORPORATION
012080	.001	M/D	HILLSBOROUGH	28,900		28,900					HURLEY TAILWATER RESOURCES REC
012091	.000	M/D	HILLSBOROUGH	140,000		140,000					KRUSEN-DOUGLAS PARTNERSHIP

Table 4-18A. Correlative Data; Industrial/Commercial and Mining /Watering WUPs.

PERMIT NUMBER	REV #	USE	COUNTY	<u>PERMITTED</u>	<u>I/C, M/D & PG Demand</u>			<u>NON I/C, M/D & PG Demand</u>			PERMITTEE NAME
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012164	.001	M/D	HILLSBOROUGH	76,000		76,000					DONALD J FRASER TST GW WILSON
012182	.001	M/D	HILLSBOROUGH	130,000		130,000					TAMPA BAY WATER
012215	.001	M/D	HILLSBOROUGH	490,000		490,000					TERRABROOKE APOLLO BEACH LP
012280	.001	M/D	HILLSBOROUGH	53,100		53,100					HURLEY TAILWATER RESOURCES REC
012284	.001	M/D	HILLSBOROUGH	56,500		56,500					C E LEISEY JR
012317	.001	M/D	HILLSBOROUGH	78,700		78,700					CALOOSA SHELL CORP
012325	.000	M/D	HILLSBOROUGH	13,700		13,700					DOUGLAS HOLMBERG
012389	.000	M/D	HILLSBOROUGH	68,500		68,500					FLORIDA FILL OF LAND O LAKES INC
006233	.004	PG	HILLSBOROUGH	234,000			234,000				TAMPA ELECTRIC CO ENVIRONMENTAL
TOTALS (mgd):				41.325	34.346	5.534	0.234	0.000	0.005	1.205	

Table 4-18A. Correlative Data; Industrial/Commercial and Mining /Watering WUPs.

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012074	.000	I/C	LEVY	9,100	9,100						WATSON CONSTRUCTION CO INC &
012155	.000	I/C	LEVY	99,250	99,000						250 EDWARD J PARADISO
TOTALS (mgd):				0.108	0.108	0.000	0.000	0.000	0.000	0.000	
003740	.006	M/D	MANATEE	6,410,000		6,410,000					NU-GULF INDUSTRIES INC
004202	.004	I/C	MANATEE	28,000	28,000						MODERN CONSTRUCTION USA INC
004444	.004	I/C	MANATEE	5,000	5,000						HARLLEE PACKING INC
004907	.002	I/C	MANATEE	40,900	22,000					18,900	OMC CHRIS CRAFT
005302	.001	PG	MANATEE	8,519,000			8,519,000				FLA POWER & LIGHT COMPANY
005423	.010	PG	MANATEE	1,719,500			23,000	1,696,500			FLA POWER & LIGHT COMPANY
005590	.003	I/C	MANATEE	14,300	10,000					4,300	BRADENTON CITY OF
007544	.003	I/C	MANATEE	24,000	24,000						JOHN FALKNER TRUSTEE
008811	.005	M/D	MANATEE	1,000,000		1,000,000					SMR AGGREGATES INC & SCHRODER-
009181	.004	I/C	MANATEE	38,600	38,600						FLORIDA ROCK INDUSTRIES INC
010690	.004	I/C	MANATEE	1,535,100	1,460,000			70,000		5,700	F BROWNE GREGG-CPV GULFCOAST LTD
011400	.018	M/D	MANATEE	0	0	0					IMC PHOSPHATES CO
011597	.001	I/C	MANATEE	35,000	35,000						SINGLEINARY CONCRETE PRODUCTS
011723	.001	I/C	MANATEE	1,000	1,000						EDWARDS FLOOR COVERINGS
011731	.002	I/C	MANATEE	20,000	20,000						SINGELTARY CONCRETE PRODUCTS INC
012009	.001	I/C	MANATEE	67,700	66,700					1,000	APAC FLORIDA INC & SCHROEDER-
012033	.001	I/C	MANATEE	3,200	3,200						TROUTMAN WELL DRILLING INC &
TOTALS (mgd):				19.461	1.714	7.410	8.542	1.767	0.000	0.030	
006585	.001	I/C	MARION	191,000	104,200			1,000	34,000	51,800	OCALA JOCKEY CLUB INC
008548	.002	I/C	MARION	32,500	32,500						MARK III INDUSTRIES INC
009986	.002	I/C	MARION	423,000	423,000						MARION CO BOCC UTILITIES DEPT
011938	.000	I/C	MARION	40,600	40,600						KMART CORPORATION
TOTALS (mgd):				0.687	0.600	0.000	0.000	0.001	0.034	0.052	

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000451	.002	I/C	PASCO	15,493,000	15,493,000						PASCO BEVERAGE CO
000817	.002	I/C	PASCO	36,200	36,200						LYKES AGRI SALES, INC.
002376	.004	M/D	PASCO	19,300		19,300					LENNAR HOMES INC
002424	.002	I/C	PASCO	31,500	31,500						GHA LOCK JOINT, INC.
003702	.003	M/D	PASCO	95,000		95,000					JAMES H. BARKER, TRUSTEE
003728	.002	M/D	PASCO	10,000		10,000					OUTLAW RIDGE INC
004826	.005	M/D	PASCO	3,862,000		3,862,000					PLAZA MATERIALS CORPORATION
004986	.002	I/C	PASCO	47,400	47,400						PASCO COUNTY SCHOOL BOARD (PASCO
006533	.002	I/C	PASCO	18,700	18,700						PASCO BEVERAGE CO
006930	.001	I/C	PASCO	1,000	1,000						JOLANDER WELL DRILLING, INC.
007976	.001	I/C	PASCO	2,700	2,700						EWELL INDUSTRIES INC
008232	.002	M/D	PASCO	59,000		59,000					SUN WEST MINE
008433	.002	I/C	PASCO	1,000	1,000						R.E PURCELL CONSTRUCTION
009087	.000	PG	PASCO	720,000			720,000				PASCO COUNTY SOLID WASTE
009132	.005	I/C	PASCO	331,000	331,000						CRYSTAL SPRINGS RECREATIONAL
010017	.001	I/C	PASCO	11,000	10,700				300		PASCO COUNTY BOARD OF CO COMM
010413	.002	PG	PASCO	762,000			762,000				PASCO COGEN LTD & LYKES-PASCO
010679	.001	M/D	PASCO	65,400		65,400					CONE & GRAHAM INC
010764	.001	I/C	PASCO	1,000	1,000						PASCO BEVERAGE CO & PASCO
010772	.002	PG	PASCO	288,000			288,000				FLORIDA POWER CORPORATION
010871	.000	M/D	PASCO	499,400		498,800		600			JAY TWO THREE INC
011066	.001	M/D	PASCO	25,400		25,400					DOYLE MINES INC
011198	.000	I/C	PASCO	1,000	1,000						PHILLIPS & JORDAN INC
011422	.002	M/D	PASCO	15,000		15,000					GERACI FAMILY ASSOCIATES INC
011490	.001	M/D	PASCO	3,000		3,000					E'S CUSTOM EXCAVATING INC
011590	.003	M/D	PASCO	15,000		15,000					PETER A & ROY N GERACI-GERACI
011605	.000	M/D	PASCO	26,500		26,500					CONE CONSTRUCTORS INC
011656	.000	M/D	PASCO	13,700		13,700					STEARNS PEAT CO / KRUSEN-DOUGLAS
012052	.002	PG	PASCO	164,000			164,000				SHADY HILLS POWER CO LLC
TOTALS (mgd):				22.618	15.975	4.708	1.934	0.001	0.000	0.000	

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				AVG DAILY PERMITTED QUANTITY (As of 01/24/2003)	QUANTITY PERMITTED FOR I/C PURPOSES	QUANTITY PERMITTED FOR M/D PURPOSES	QUANTITY PERMITTED FOR PG PURPOSES	QUANTITY PERMITTED FOR AG PURPOSES	QUANTITY PERMITTED FOR PS PURPOSES	QUANTITY PERMITTED FOR REC PURPOSES	
000217	.003	I/C	PINELLAS	134,000	134,000						THE MINUTE MAID CO
002528	.004	I/C	PINELLAS	28,000	28,000						STAUFFER MANAGEMENT COMPANY
003159	.002	I/C	PINELLAS	1,400	1,400						LAWRENCE H DIMMITT III
003783	.002	I/C	PINELLAS	100	100						SPACE CENTER, INC.
003784	.002	I/C	PINELLAS	12,300	12,300						SPACE CENTER, INC. & FRANK C.
005855	.003	I/C	PINELLAS	19,800	19,800						JOHN HANCOCK LIFE INSURANCE CO
008101	.001	I/C	PINELLAS	10,400	10,400						THE SEMBLER CORP
008192	.001	I/C	PINELLAS	2,500	2,500						COQUINA KEY ARMS APARTMENTS
009955	.007	M/D	PINELLAS	83,000		83,000					JOHN MILLS
010646	.001	I/C	PINELLAS	100,000	100,000						SAFETY HARBOR SPA & FITNESS
011433	.001	M/D	PINELLAS	498,000		498,000					H/A PARTNERS LTD
011761	.000	M/D	PINELLAS	96,000		96,000					PINELLAS CO BOCC
011762	.000	I/C	PINELLAS	60,000	60,000						DANIEL F MATTA
TOTALS (mgd):				1.046	0.369	0.677	0.000	0.000	0.000	0.000	
000029	.009	M/D	POLK	11,486,000		11,486,000					CARGILL FERTILIZER INC
000047	.008	PG	POLK	2,874,000			2,874,000				CITY OF LAKELAND
000225	.004	I/C	POLK	1,000	1,000						LAKELAND BEVERAGE INC
000260	.004	I/C	POLK	448,000	448,000						FLORIDA DISTILLERS CO & TODD
000261	.004	I/C	POLK	33,000	33,000						ALUMINUM CO OF AMERICA
000293	.000	PG	POLK	216,600			216,600				CITY OF LAKELAND
000295	.006	PG	POLK	1,422,000			1,422,000				CITY OF LAKELAND ELEC & WATER
000408	.007	I/C	POLK	2,182,700	2,136,800			39,000			6,000 CITRUS WORLD INC
000438	.005	I/C	POLK	8,122,100	6,497,900			1,622,900			1,300 US AGRI CHEMICALS
000440	.004	I/C	POLK	124,300	120,000						4,300 US AGRI CHEMICALS
000493	.006	I/C	POLK	3,500,000	3,500,000						CUTRALE CITRUS JUICES USA INC
000610	.007	I/C	POLK	3,333,900	3,303,300						30,600 CF INDUSTRIES INC
000713	.004	I/C	POLK	34,300	27,400			6,900			RIDGE PALLETS INC
001068	.005	I/C	POLK	18,700	18,700						OSCAR W ROGERS-CD ROGERS-WM
001275	.005	I/C	POLK	24,000	24,000						DUNDEE CITRUS GROWERS ASSOC
001405	.003	I/C	POLK	116,000	115,000					1,000	BARTOW HOLDING CO INC

Table 4-18A. Correlative Data; Industrial/Commercial and Mining /Watering WUPs.

PERMIT NUMBER	REV #	USE	COUNTY	<u>PERMITTED</u>	<u>I/C, M/D & PG Demand</u>			<u>NON I/C, M/D & PG Demand</u>			PERMITEE NAME
				AVG DAILY PERMITTED QUANTITY (As of 01/24/2003)	QUANTITY PERMITTED FOR I/C PURPOSES	QUANTITY PERMITTED FOR M/D PURPOSES	QUANTITY PERMITTED FOR PG PURPOSES	QUANTITY PERMITTED FOR AG PURPOSES	QUANTITY PERMITTED FOR PS PURPOSES	QUANTITY PERMITTED FOR REC PURPOSES	
001539	.006	I/C	POLK	5,500,000	5,500,000						FARMLAND HYDRO LTD PARTNERSHIP
001554	.003	I/C	POLK	8,000	8,000						RIDGE LUMBER & TREATING INC
001808	.004	I/C	POLK	67,600	67,600						RITCHIE BROTHERS PROPERTIES INC
002023	.008	I/C	POLK	118,400	118,400						PHOENIX INDUSTRIES
002224	.007	I/C	POLK	5,221,600	5,200,000					21,600	CARGILL FERTILIZER INC
002317	.005	I/C	POLK	6,397,000	780,000	5,617,000					AGRIFOS LLC
002345	.004	I/C	POLK	2,000	2,000						ALL-TEMP STORAGE LLC
002538	.004	I/C	POLK	141,000	141,000						MACASPHALT INC A DIVISION OF
002834	.004	I/C	POLK	473,400	439,000			34,400			PASCO PROCESSING
002922	.004	I/C	POLK	13,300	7,600					5,700	TRUST UNDER RETIREMENT PLAN FOR
003147	.005	I/C	POLK	477,700	387,000				90,700		CITRUS WORLD INC
003150	.005	I/C	POLK	191,500	191,500						KAISER ALUMINUM & CHEMICAL CORP
003195	.005	I/C	POLK	1,991,000	1,991,000						MULBERRY PHOSPHATES INC
003638	.003	I/C	POLK	28,800	28,800						RESOLUTION PERFORMANCE PRODUCTS
003641	.004	I/C	POLK	800,000	800,000						AOC LLC
004312	.004	I/C	POLK	371,000	371,000						HOLLY HILL FRUIT PRODUCTS CO INC
004348	.003	I/C	POLK	32,700	17,500					15,200	HARMAC DEVELOPMENT
004745	.003	I/C	POLK	16,000	11,100					4,900	MITCO WATER LABORATORIES INC
004857	.006	M/D	POLK	7,473,100	70,000	7,403,100		555,900			RINKER MATERIALS CORP
004894	.003	I/C	POLK	313,000	313,000						CARGILL CITRO AMERICA INC
005173	.007	M/D	POLK	264,100		263,700				400	FLORIDA ROCK IND INC & FLORIDA
005798	.007	I/C	POLK	1,495,700	1,448,700					47,000	PUBLIX SUPER MARKETS INC
005927	.003	I/C	POLK	2,000	2,000						VENTURE PROPERTIES
006004	.003	I/C	POLK	5,400	5,400						FLORIDA EQUIPMENT & SERVICES INC
006054	.004	M/D	POLK	188,900	1,000	187,900					E R JAHNA INDUSTRIES INC
006861	.003	I/C	POLK	15,900	9,100					6,800	WINTER HAVEN HOSPITAL
007023	.004	I/C	POLK	21,000	21,000						GOLDEN GEM GROWERS INC
007095	.004	M/D	POLK	119,000		119,000					CFE MATERIALS INC
007212	.003	I/C	POLK	43,800	42,000					1,800	BEN HILL GRIFFIN INC
007226	.002	I/C	POLK	16,100	15,300				800		PEMBROKE LABORATORIES INC
007229	.002	I/C	POLK	17,000	17,000						NATHAN DYKGRAAF
007301	.005	M/D	POLK	32,400		32,400					DONALD W FRASIER/ FRASIER

Table 4-18A. Correlative Data; Industrial/Commercial and Mining /Watering WUPs.

PERMIT NUMBER	REV #	USE	COUNTY	<u>PERMITTED</u>	<u>I/C, M/D & PG Demand</u>			<u>NON I/C, M/D & PG Demand</u>			PERMITEE NAME
				AVG DAILY PERMITTED QUANTITY (As of 01/24/2003)	QUANTITY PERMITTED FOR I/C PURPOSES	QUANTITY PERMITTED FOR M/D PURPOSES	QUANTITY PERMITTED FOR PG PURPOSES	QUANTITY PERMITTED FOR AG PURPOSES	QUANTITY PERMITTED FOR PS PURPOSES	QUANTITY PERMITTED FOR REC PURPOSES	
007314	.002	I/C	POLK	11,400	8,000					3,400	BREED AUTOMOTIVE OF FLORIDA INC
007356	.003	I/C	POLK	90,000	90,000						BARTOW ETHANOL OF FLORIDA LLC
007614	.002	I/C	POLK	1,000	900				100		POLK COUNTY DEPT OF
007781	.003	I/C	POLK	35,100	31,300					3,800	SOUTH SHORE RV RESORT CONDO
007843	.002	I/C	POLK	15,100	15,100						LAKE WALES CITRUS GROWERS
007856	.002	I/C	POLK	1,800	1,800						HARRELLS INC
008691	.004	I/C	POLK	14,200	11,300					2,900	ASHLAND INC
008890	.002	I/C	POLK	2,000	2,000						MAVEN PROPERTIES INC
008945	.002	I/C	POLK	27,700	19,100					8,600	DOLORES A BARTON
009010	.003	I/C	POLK	101,400	59,200			7,700		34,500	CHALET SUZANNE
009131	.003	I/C	POLK	15,000	9,300					5,700	ROOMS TO GO FURNITURE CORP
010025	.001	I/C	POLK	50,000	50,000						SPARKLE MANUFACTURING COMPANY
010098	.004	I/C	POLK	3,200	2,200					1,000	CHEMICAL CONTAINERS INC
010104	.001	I/C	POLK	1,000	1,000						RINGHAVER EQUIPMENT CO
010151	.001	I/C	POLK	1,000	1,000						CHARLES RUTLAND
010157	.002	I/C	POLK	37,300	37,300						OAKLEY PROPERTIES INC
010163	.001	I/C	POLK	4,000	3,000				1,000		ALTA METCALF
010196	.001	I/C	POLK	1,000	1,000						HARMON & NORRIS ENTERPRISES INC
010278	.001	I/C	POLK	4,000	4,000						BONE VALLEY SERVICE COMPANY INC
010341	.002	I/C	POLK	9,500	5,600					3,900	MICHAEL E HAMPTON
010347	.002	I/C	POLK	1,000,000	1,000,000						FLA DISTILLERS CO & TOD HUNTER
010373	.002	I/C	POLK	2,000	2,000			1,326,300			CSN LAKELAND/LAKE WALES
010494	.001	I/C	POLK	4,800	4,800						LAKELAND AUTO AUCTION
010501	.001	I/C	POLK	1,000	1,000						TRINITY FULL GOSPEL PENTECOSTAL
010555	.003	I/C	POLK	1,082,000	1,082,000						FLORIDA DISTILLERS COMPANY
010585	.001	I/C	POLK	7,400	7,400						RALPH L ROBERTS SR TR UNDER TR #
010604	.004	PG	POLK	1,326,300			1,326,300				AUBURNDALE POWER PARTNERS
010631	.002	PG	POLK	1,340,000			1,340,000				WHEELABORATOR RIDGE ENERGY AND
010700	.003	PG	POLK	762,200			761,000			1,200	POLK POWER PARTNERS LIMITED
010731	.003	M/D	POLK	411,000		411,000					500 ENTERPRISES INC & LITTLE
010770	.002	I/C	POLK	302,000	302,000						JUICE BOWL PRODUCTS INC
010829	.002	I/C	POLK	76,900	76,900						G-R FLORIDA INC

Table 4-18A. Correlative Data; Industrial/Commercial and Mining /Watering WUPs.

PERMIT NUMBER	REV #	USE	COUNTY	<u>PERMITTED</u>	<u>I/C, M/D & PG Demand</u>			<u>NON I/C, M/D & PG Demand</u>			PERMITEE NAME
				AVG DAILY PERMITTED QUANTITY (As of 01/24/2003)	QUANTITY PERMITTED FOR I/C PURPOSES	QUANTITY PERMITTED FOR M/D PURPOSES	QUANTITY PERMITTED FOR PG PURPOSES	QUANTITY PERMITTED FOR AG PURPOSES	QUANTITY PERMITTED FOR PS PURPOSES	QUANTITY PERMITTED FOR REC PURPOSES	
010840	.002	PG	POLK	1,682,300			1,682,300				FLORIDA POWER CORP & US AGRI
010908	.001	I/C	POLK	16,500	16,500						MOBIL MINING & MINERALS CO AND
010916	.000	I/C	POLK	1,800	1,800						JAMES CHIT CHAN
010944	.001	PG	POLK	17,500,000			17,500,000				FLORIDA POWER CORP
010948	.003	PG	POLK	660,300			660,000				300 ORANGE COGENERATION LIMITED
010985	.001	I/C	POLK	14,400	8,900				5,500		LAMB BROTHERS CONSTRUCTION CO
010997	.000	I/C	POLK	400	400						GREEN POND BAPTIST CHURCH
011061	.001	I/C	POLK	6,200	6,200						SHERMAN UTILITY STRUCTURES INC
011063	.001	M/D	POLK	412,000		412,000					ALVIN FUTCH & BILL SARGEANT-
011177	.001	I/C	POLK	13,000	13,000						CITY OF WINTER HAVEN-WASTEWATER
011226	.001	I/C	POLK	2,300	2,300						ERIC G ERIKSEN
011277	.003	M/D	POLK	477,000		477,000					CARILLON LAKES LLC
011374	.002	I/C	POLK	99,000	99,000						MKM INDUSTRIES INC
011397	.001	I/C	POLK	16,700	16,700						BORAL CONCRETE PRODUCTS INC
011400	.018	I/C	POLK	46,662,000	16,027,000	30,800,000					IMC PHOSPHATES CO
011406	.001	I/C	POLK	46,200	46,200						HUNT BROS SERVICE INC & HUNT
011407	.001	I/C	POLK	1,000	1,000						FLORIDA POWER CORPORATION
011413	.000	I/C	POLK	1,000	1,000						GILIEO & SON FABRICATION
011419	.001	I/C	POLK	12,700	7,200				5,500		MARK A WOODS
011436	.002	I/C	POLK	4,400	4,400						ORGANIC MATTERS INC
011512	.000	I/C	POLK	200	200						LAROCHE INDUSTRIES INC
011747	.002	PG	POLK	6,400,000			6,400,000				TAMPA ELECTRIC CO ENVIRONMENTAL
011795	.001	I/C	POLK	500	500						MICHAEL F MURPHY
011877	.001	I/C	POLK	20,300	10,900				9,400		SAM WELTON DEV COMPLEX
011912	.001	I/C	POLK	64,300	54,700				9,600		GEICO
011946	.001	I/C	POLK	89,400	75,100			14,300			W A READ JR
011987	.002	I/C	POLK	6,600	6,600						FORT MEADE FOREST PRODUCTS INC
012054	.002	I/C	POLK	2,742,200	2,742,200						CALPINE CONSTRUCT FINANCE CO LP
012076	.001	M/D	POLK	46,300		46,300					CSR RINKER & U & H CITRUS
012183	.003	I/C	POLK	23,700	14,100				9,600		BEN HILL GRIFFIN INC
012223	.001	I/C	POLK	1,000	1,000						ERNEST W & SHIRLEY A & TERRENCE
012232	.001	I/C	POLK	1,205,800	1,013,900			187,800	4,100		CITROSUCO NORTH AMERICA INC

Table 4-18A. Correlative Data; Industrial/Commercial and Mining /Watering WUPs.

PERMIT NUMBER	REV #	USE	COUNTY	<u>PERMITTED</u>	<u>I/C, M/D & PG Demand</u>			<u>NON I/C, M/D & PG Demand</u>			PERMITTEE NAME
				AVG DAILY PERMITTED QUANTITY (As of 01/24/2003)	QUANTITY PERMITTED FOR I/C PURPOSES	QUANTITY PERMITTED FOR M/D PURPOSES	QUANTITY PERMITTED FOR PG PURPOSES	QUANTITY PERMITTED FOR AG PURPOSES	QUANTITY PERMITTED FOR PS PURPOSES	QUANTITY PERMITTED FOR REC PURPOSES	
012259	.000	M/D	POLK	494,000		494,000					ER JAHNA INDUSTRIES INC
012292	.000	M/D	POLK	492,700		488,900				3,800	RMC-SOUTH FLORIDA INC & DONALD
TOTALS (mgd):				151.753	57.231	58.238	34.182	2.560	0.003	0.258	
006482	.004	I/C	SARASOTA	13,000	4,000					9,000	BENEVA NURSING PAVILION INC
007808	.002	I/C	SARASOTA	9,700	5,400					4,300	PUBLIX SUPER MARKETS INC
010640	.002	I/C	SARASOTA	25,000	13,900					11,100	FLORIDA LAND TRUST NO V1
011043	.001	I/C	SARASOTA	3,100	3,100						R C MARTIN CONCRETE PRODUCTS
011516	.001	I/C	SARASOTA	6,000	6,000						PETERSON MANUFACTURING COMPANY
011520	.001	I/C	SARASOTA	1,000	1,000						STAUDT FLORIDA MARINA LTD
011557	.001	I/C	SARASOTA	1,000	1,000						GREAT AMERICAN MARINE
011667	.001	I/C	SARASOTA	4,000	2,500					1,200	FREDERICK E FARLEY
011838	.001	I/C	SARASOTA	260,000	260,000						WEBSTER ELECTRIC COMPANY INC
008817	.006	M/D	SARASOTA	1,283,800		1,283,800					SMR AGGREGATES INC
009766	.003	M/D	SARASOTA	120,000		120,000					R GENE SMITH
011326	.003	M/D	SARASOTA	4,600		4,600					NORTHPORT COMMERCIAL INTERCHANGE
011348	.001	M/D	SARASOTA	447,000		447,000					KMA MINING INC
011367	.001	M/D	SARASOTA	445,000		445,000					BRIAN BURTCH
011518	.002	M/D	SARASOTA	213,600		213,600					APAC FLORIDA INC
TOTALS (mgd):				2.837	0.297	2.514	0.000	0.000	0.000	0.026	

Table 4-18A. Correlative Data; Industrial/Commercial and Mining /Watering WUPs.

PERMIT NUMBER	REV #	USE	COUNTY	<u>PERMITTED</u>	<u>I/C, M/D & PG Demand</u>			<u>NON I/C, M/D & PG Demand</u>			PERMITEE NAME
				AVG DAILY PERMITTED QUANTITY (As of 01/24/2003)	QUANTITY PERMITTED FOR I/C PURPOSES	QUANTITY PERMITTED FOR M/D PURPOSES	QUANTITY PERMITTED FOR PG PURPOSES	QUANTITY PERMITTED FOR AG PURPOSES	QUANTITY PERMITTED FOR PS PURPOSES	QUANTITY PERMITTED FOR REC PURPOSES	
000815	.003	I/C	SUMTER	1,000	1,000						PRIME DEVELOPMENT CORP INC
002223	.003	I/C	SUMTER	5,400	5,400						BUSHNELL ELDERLY HOUSING LIMITED
003236	.002	I/C	SUMTER	12,500	12,500						FLORIDA POWER CORP
008487	.001	I/C	SUMTER	136,300	136,300						CUSTER DEVELOPMENT CORP
009949	.000	I/C	SUMTER	38,000	37,000				1,000		GREAT SOUTHERN WOOD OF FLORIDA
011012	.000	I/C	SUMTER	95,000	95,000						UNITED STATES DEPT. OF JUSTICE
011259	.000	I/C	SUMTER	124,600	113,400			11,200			SUMTER CO BOCC
011575	.000	I/C	SUMTER	16,200	16,200						CENTRAL PACKING CO
011776	.000	I/C	SUMTER	3,000	3,000						ROBBINS MANUFACTURING CO
011864	.000	I/C	SUMTER	24,200	24,200						RINKER MATERIALS CORPORATION
012385	.000	I/C	SUMTER	330	330						BAILEY BROTHERS INC
000213	.004	M/D	SUMTER	33,167,000		33,167,000					FLORIDA CRUSHED STONE CO
001334	.003	M/D	SUMTER	367,000		266,000		101,000			DIXIE LIME AND STONE COMPANY
007478	.001	M/D	SUMTER	160,000		160,000					SUNSHINE PEAT INC & C E
008891	.006	M/D	SUMTER	5,257,000		5,257,000					FLORIDA CRUSHED STONE CO & FAYE
012255	.000	M/D	SUMTER	99,700		99,700					MAZAK PROPERTIES INC
TOTALS (mgd):				39.507	0.444	38.950	0.000	0.112	0.001	0.000	
DISTRICT TOTAL:				374.745	135.460	177.933	54.915	4.488	0.047	1.624	
Number of Individual I/C, M/D, and PG Water Use Permits:					358						

Table 4-19A. Water Demand Projections; Industrial/Commercial and Mining/Dewatering WUPs.

PERMITTED			I/C PROJECTED DEMAND 2005-2025					M/D PROJECTED DEMAND 2005-2025					PG PROJECTED DEMAND 2005-2025					
PERMIT NUMBER	REV #	AVG DAILY PERMITTED QUANTITY (As of 01/24/2003)	SOURCE	2005	2010	2015	2020	2025	2005	2010	2015	2020	2025	2005	2010	2015	2020	2025
CHARLOTTE COUNTY																		
007871	.002	12,500	%	4,663	4,802	4,946	5,095	5,248	0	0	0	0	0	0	0	0	0	0
009180	.002	46,700	%	17,419	17,942	18,480	19,034	19,605	0	0	0	0	0	0	0	0	0	0
009322	.004	4,000	%	0	0	0	0	0	1,360	1,401	1,443	1,486	1,531	0	0	0	0	0
009778	.004	5,500	%	0	0	0	0	0	1,870	1,926	1,984	2,043	2,105	0	0	0	0	0
009898	.005	388,000	Sar Reg	0	0	0	0	0	11,220	11,557	11,903	12,260	12,628	0	0	0	0	0
010193	.002	400,000	Sar Reg	0	0	0	0	0	7,480	7,704	7,936	8,174	8,419	0	0	0	0	0
010217	.001	123,000	%	0	0	0	0	0	41,820	43,075	44,367	45,698	47,069	0	0	0	0	0
010218	.005	23,000	%	0	0	0	0	0	7,820	8,055	8,296	8,545	8,801	0	0	0	0	0
010237	.003	67,000	%	0	0	0	0	0	22,780	23,463	24,167	24,892	25,639	0	0	0	0	0
010554	.002	2,000	%	373	384	396	408	420	340	350	361	372	383	0	0	0	0	0
010891	.002	8,000	%	0	0	0	0	0	2,720	2,802	2,886	2,972	3,061	0	0	0	0	0
010942	.001	323,000	Sar Reg	0	0	0	0	0	7,174	7,389	7,611	7,839	8,074	0	0	0	0	0
011222	.005	35,700	%	0	0	0	0	0	12,138	12,502	12,877	13,264	13,661	0	0	0	0	0
011560	.001	2,700	%	0	0	0	0	0	918	946	974	1,003	1,033	0	0	0	0	0
011613	.002	6,000	%	0	0	0	0	0	2,040	2,101	2,164	2,229	2,296	0	0	0	0	0
011681	.001	20,000	%	0	0	0	0	0	6,800	7,004	7,214	7,431	7,653	0	0	0	0	0
011968	.000	27,500	%	0	0	0	0	0	9,350	9,631	9,919	10,217	10,524	0	0	0	0	0
011989	.001	29,000	%	0	0	0	0	0	7,140	7,354	7,575	7,802	8,036	0	0	0	0	0
011996	.001	40,200	%	0	0	0	0	0	13,668	14,078	14,500	14,935	15,383	0	0	0	0	0
012019	.002	12,000	%	0	0	0	0	0	4,080	4,202	4,328	4,458	4,592	0	0	0	0	0
012050	.001	10,000	%	3,730	3,842	3,957	4,076	4,198	0	0	0	0	0	0	0	0	0	0
012337	.000	6,400	%	0	0	0	0	0	2,176	2,241	2,309	2,378	2,449	0	0	0	0	0
Charlotte County Total (mgd):				0.026	0.027	0.028	0.029	0.029	0.163	0.168	0.173	0.178	0.183	0.000	0.000	0.000	0.000	0.000

Table 4-19A. Water Demand Projections; Industrial/Commercial and Mining/Dewatering WUPs.

PERMITTED		SOURCE	I/C PROJECTED DEMAND 2005-2025					M/D PROJECTED DEMAND 2005-2025					PG PROJECTED DEMAND 2005-2025					
PERMIT NUMBER	REV # (As of 01/24/2003)		AVG DAILY PERMITTED QUANTITY	2005	2010	2015	2020	2025	2005	2010	2015	2020	2025	2005	2010	2015	2020	2025
CITRUS COUNTY																		
003672 .000		1,000,000	%	0	0	0	0	0	0	0	0	0	0	614,000	614,000	614,000	614,000	614,000
004695 .003		1,000,000	Ind %	0	0	0	0	0	0	0	0	0	0	695,000	695,000	695,000	695,000	695,000
007006 .001		10,000	%	4,851	4,996	5,146	5,300	5,459	0	0	0	0	0	0	0	0	0	0
007352 .001		2,600	%	1,596	1,644	1,694	1,744	1,797	0	0	0	0	0	0	0	0	0	0
007662 .002		30,000	%	18,420	18,973	19,542	20,128	20,732	0	0	0	0	0	0	0	0	0	0
007687 .006		827,600	%	0	0	0	0	0	236,236	243,323	250,623	258,141	265,886	0	0	0	0	0
007819 .008		492,000	%	0	0	0	0	0	140,712	144,933	149,281	153,760	158,373	0	0	0	0	0
008874 .001		1,400	%	860	885	912	939	967	0	0	0	0	0	0	0	0	0	0
009115 .001		1,000	%	614	632	651	671	691	0	0	0	0	0	0	0	0	0	0
009329 .002		1,000	%	614	632	651	671	691	0	0	0	0	0	0	0	0	0	0
010166 .000		8,500	%	5,219	5,376	5,537	5,703	5,874	0	0	0	0	0	0	0	0	0	0
010247 .000		1,000	%	614	632	651	671	691	0	0	0	0	0	0	0	0	0	0
010842 .000		6,100	%	2,149	2,213	2,280	2,348	2,419	0	0	0	0	0	0	0	0	0	0
011281 .002		364,300	%	223,680	230,391	237,302	244,421	251,754	0	0	0	0	0	0	0	0	0	0
011801 .000		224,000	%	137,536	141,662	145,912	150,289	154,798	0	0	0	0	0	0	0	0	0	0
012049 .000		1,000	%	614	632	651	671	691	0	0	0	0	0	0	0	0	0	0
012058 .000		67,300	%	0	0	0	0	0	19,248	19,825	20,420	21,033	21,664	0	0	0	0	0
Citrus County Total (mgd):				0.397	0.409	0.421	0.434	0.447	0.396	0.408	0.420	0.433	0.446	1.309	1.309	1.309	1.309	1.309

Table 4-19A. Water Demand Projections; Industrial/Commercial and Mining/Dewatering WUPs.

PERMITTED			I/C PROJECTED DEMAND 2005-2025					M/D PROJECTED DEMAND 2005-2025					PG PROJECTED DEMAND 2005-2025					
PERMIT NUMBER	REV #	AVG DAILY PERMITTED QUANTITY (As of 01/24/2003)	SOURCE	2005	2010	2015	2020	2025	2005	2010	2015	2020	2025	2005	2010	2015	2020	2025
DESOTO COUNTY																		
000070	.005	103,400	%	34,129	35,152	36,207	37,293	38,412	0	0	0	0	0	0	0	0	0	0
002456	.003	480,000	Sar Reg	0	0	0	0	0	4,954	5,102	5,255	5,413	5,575	0	0	0	0	0
002914	.008	18,000	%	0	0	0	0	0	3,456	3,560	3,666	3,776	3,890	0	0	0	0	0
009376	.002	57,600	%	0	0	0	0	0	11,059	11,391	11,733	12,085	12,447	0	0	0	0	0
010200	.005	53,000	%	0	0	0	0	0	10,176	10,481	10,796	11,120	11,453	0	0	0	0	0
010211	.002	9,600	%	0	0	0	0	0	1,843	1,898	1,955	2,014	2,075	0	0	0	0	0
010673	.003	226,200	Sar Reg	0	0	0	0	0	7,488	7,713	7,944	8,182	8,428	0	0	0	0	0
010905	.002	6,800	%	0	0	0	0	0	1,306	1,345	1,385	1,427	1,469	0	0	0	0	0
011156	.001	328,200	Sar Reg	0	0	0	0	0	3,840	3,955	4,074	4,196	4,322	0	0	0	0	0
012131	.002	85,900	%	0	0	0	0	0	0	0	0	0	0	26,754	26,754	26,754	26,754	26,754
DeSoto County Total (mgd):				0.034	0.035	0.036	0.037	0.038	0.044	0.045	0.047	0.048	0.050	0.027	0.027	0.027	0.027	0.027
HARDEE COUNTY																		
000029	.009	11,486,000	Bar Reg	0	0	0	0	0	0	4,519,282	4,654,860	4,794,506	4,938,341	0	0	0	0	0
002297	.011	17,864,000	%	738	760	782	806	830	4,875,261	5,021,519	5,172,165	5,327,330	5,487,150	0	0	0	0	0
002494	.005	98,000	%	12,250	12,618	12,996	13,386	13,787	0	0	0	0	0	0	0	0	0	0
003669	.007	7,605,100	%	0	0	0	0	0	1,800,299	1,854,307	1,909,937	1,967,235	2,026,252	0	0	0	0	0
009731	.002	3,800,000	%	0	0	0	0	0	0	0	0	0	0	475,000	475,000	475,000	475,000	475,000
010924	.001	17,700	%	2,213	2,279	2,347	2,418	2,490	0	0	0	0	0	0	0	0	0	0
011122	.001	3,800,000	%	0	0	0	0	0	0	0	0	0	0	475,000	475,000	475,000	475,000	475,000
011400	.018	223,000	RPQ	9,625	9,914	10,211	10,517	10,833	39,858	41,054	42,285	43,554	44,861	0	0	0	0	0
012036	.001	132,400	%	0	0	0	0	0	0	0	0	0	0	16,550	16,550	16,550	16,550	16,550
012048	.002	218,000	%	0	0	0	0	0	0	0	0	0	0	26,500	26,500	26,500	26,500	26,500
012352	.000	8,000	%	0	0	0	0	0	2,184	2,250	2,317	2,387	2,458	0	0	0	0	0
Hardee County Total (mgd):				0.025	0.026	0.026	0.027	0.028	6.718	11.438	11.782	12.135	12.499	0.993	0.993	0.993	0.993	0.993

Table 4-19A. Water Demand Projections; Industrial/Commercial and Mining/Dewatering WUPs.

PERMITTED		SOURCE	I/C PROJECTED DEMAND 2005-2025					M/D PROJECTED DEMAND 2005-2025					PG PROJECTED DEMAND 2005-2025					
PERMIT NUMBER	REV # (As of 01/24/2003)		AVG DAILY PERMITTED QUANTITY	2005	2010	2015	2020	2025	2005	2010	2015	2020	2025	2005	2010	2015	2020	2025
<u>HERNANDO COUNTY</u>																		
000065	.004	14,000	%	5,026	5,177	5,332	5,492	5,657	0	0	0	0	0	0	0	0	0	0
000199	.004	6,155,200	%	0	0	0	0	0	5,632,008	5,800,968	5,974,997	6,154,247	6,338,875	0	0	0	0	0
000215	.009	6,785,500	%	0	0	0	0	0	6,208,733	6,394,994	6,586,844	6,784,450	6,987,983	0	0	0	0	0
002286	.004	2,890,000	Brk Reg	2,300,000	2,300,000	2,300,000	2,300,000	2,300,000	0	0	0	0	0	0	0	0	0	0
002288	.004	6,680,000	Brk Reg	0	0	0	0	0	4,000,000	4,000,000	4,000,000	4,000,000	4,000,000	0	0	0	0	0
006756	.001	15,000	%	5,026	5,177	5,332	5,492	5,657	0	0	0	0	0	0	0	0	0	0
006946	.003	37,800	%	13,570	13,977	14,397	14,829	15,273	0	0	0	0	0	0	0	0	0	0
007015	.000	20,080,000	Ind %	0	0	0	0	0	0	0	0	0	0	4,999,920	4,999,920	4,999,920	4,999,920	4,999,920
007822	.002	84,000	%	0	0	0	0	0	76,860	79,166	81,541	83,987	86,507	0	0	0	0	0
010249	.000	1,700	%	610	629	647	667	687	0	0	0	0	0	0	0	0	0	0
Hernando County Total (mgd):				2.324	2.325	2.326	2.326	2.327	15.918	16.275	16.643	17.023	17.413	5.000	5.000	5.000	5.000	5.000
<u>HIGHLANDS COUNTY</u>																		
004086	.008	192,200	%	75,746	78,018	80,359	82,770	85,253	0	0	0	0	0	0	0	0	0	0
007068	.002	60,000	%	29,040	29,911	30,809	31,733	32,685	0	0	0	0	0	0	0	0	0	0
007556	.003	14,600	%	6,534	6,730	6,932	7,140	7,354	0	0	0	0	0	0	0	0	0	0
007760	.003	7,000	%	2,323	2,393	2,465	2,539	2,615	0	0	0	0	0	0	0	0	0	0
007761	.003	72,000	%	29,040	29,911	30,809	31,733	32,685	0	0	0	0	0	0	0	0	0	0
008460	.003	24,700	%	9,486	9,771	10,064	10,366	10,677	0	0	0	0	0	0	0	0	0	0
010547	.005	25,900	%	0	0	0	0	0	11,940	12,298	12,667	13,047	13,438	0	0	0	0	0
010866	.001	9,300	%	3,533	3,639	3,748	3,861	3,977	0	0	0	0	0	0	0	0	0	0
012272	.002	3,500	%	1,162	1,196	1,232	1,269	1,307	0	0	0	0	0	0	0	0	0	0
Highlands County Total (mgd):				0.157	0.162	0.166	0.171	0.177	0.012	0.012	0.013	0.013	0.013	0.000	0.000	0.000	0.000	0.000

Table 4-19A. Water Demand Projections; Industrial/Commercial and Mining/Dewatering WUPs.

		<u>PERMITTED</u>		<u>I/C PROJECTED DEMAND 2005-2025</u>					<u>M/D PROJECTED DEMAND 2005-2025</u>					<u>PG PROJECTED DEMAND 2005-2025</u>				
<u>PERMIT NUMBER</u>	<u>REV #</u>	<u>AVG DAILY PERMITTED QUANTITY (As of 01/24/2003)</u>	<u>SOURCE</u>	<u>2005</u>	<u>2010</u>	<u>2015</u>	<u>2020</u>	<u>2025</u>	<u>2005</u>	<u>2010</u>	<u>2015</u>	<u>2020</u>	<u>2025</u>	<u>2005</u>	<u>2010</u>	<u>2015</u>	<u>2020</u>	<u>2025</u>
008493	.005	20,000	%	12,640	13,019	13,410	13,812	14,226	0	0	0	0	0	0	0	0	0	0
008634	.001	3,900	%	2,465	2,539	2,615	2,693	2,774	0	0	0	0	0	0	0	0	0	0
008809	.001	469,000	%	296,408	305,300	314,459	323,893	333,610	0	0	0	0	0	0	0	0	0	0
009259	.002	59,300	%	37,478	38,602	39,760	40,953	42,181	0	0	0	0	0	0	0	0	0	0
009269	.001	100	%	63	65	67	69	71	0	0	0	0	0	0	0	0	0	0
009635	.002	16,000	%	10,112	10,415	10,728	11,050	11,381	0	0	0	0	0	0	0	0	0	0
009826	.000	10,600	%	3,792	3,906	4,023	4,144	4,268	0	0	0	0	0	0	0	0	0	0
010339	.000	94,000	%	59,408	61,190	63,026	64,917	66,864	0	0	0	0	0	0	0	0	0	0
010380	.003	17,100	%	10,807	11,131	11,465	11,809	12,164	0	0	0	0	0	0	0	0	0	0
010500	.001	462,000	%	291,984	300,744	309,766	319,059	328,631	0	0	0	0	0	0	0	0	0	0
010812	.001	3,000	%	1,896	1,953	2,011	2,072	2,134	0	0	0	0	0	0	0	0	0	0
010863	.000	1,400	%	885	911	939	967	996	0	0	0	0	0	0	0	0	0	0
011030	.000	2,100	%	1,327	1,367	1,408	1,450	1,494	0	0	0	0	0	0	0	0	0	0
011335	.001	79,500	%	50,244	51,751	53,304	54,903	56,550	0	0	0	0	0	0	0	0	0	0
011400	.018	4,591,000	RPQ	984,072	1,013,594	1,044,002	1,075,322	1,107,582	1,192,505	1,228,280	1,265,129	1,303,082	1,342,175	0	0	0	0	0
011510	.002	18,000	%	11,376	11,717	12,069	12,431	12,804	0	0	0	0	0	0	0	0	0	0
011555	.000	10,500	%	6,636	6,835	7,040	7,251	7,469	0	0	0	0	0	0	0	0	0	0
011712	.001	12,000	%	7,584	7,812	8,046	8,287	8,536	0	0	0	0	0	0	0	0	0	0
011986	.000	192,300	%	121,534	125,180	128,935	132,803	136,787	0	0	0	0	0	0	0	0	0	0
012101	.002	8,000	%	5,056	5,208	5,364	5,525	5,691	0	0	0	0	0	0	0	0	0	0
012140	.000	175,400	%	110,853	114,178	117,604	121,132	124,766	0	0	0	0	0	0	0	0	0	0
003960	.003	95,000	%	0	0	0	0	0	37,525	38,651	39,810	41,005	42,235	0	0	0	0	0
006366	.005	93,300	%	0	0	0	0	0	36,854	37,959	39,098	40,271	41,479	0	0	0	0	0
010462	.002	323,000	%	0	0	0	0	0	127,585	131,413	135,355	139,416	143,598	0	0	0	0	0
010927	.001	287,000	%	0	0	0	0	0	113,365	116,766	120,269	123,877	127,593	0	0	0	0	0
011471	.002	81,000	%	0	0	0	0	0	31,995	32,955	33,943	34,962	36,011	0	0	0	0	0
011719	.001	93,000	%	0	0	0	0	0	36,735	37,837	38,972	40,141	41,346	0	0	0	0	0
011833	.000	64,000	%	0	0	0	0	0	25,280	26,038	26,820	27,624	28,453	0	0	0	0	0
011845	.001	446,000	%	0	0	0	0	0	105,860	109,036	112,307	115,676	119,146	0	0	0	0	0
011974	.001	75,400	%	0	0	0	0	0	29,783	30,676	31,597	32,545	33,521	0	0	0	0	0
012080	.001	28,900	%	0	0	0	0	0	11,416	11,758	12,111	12,474	12,848	0	0	0	0	0
012091	.000	140,000	%	0	0	0	0	0	55,300	56,959	58,668	60,428	62,241	0	0	0	0	0

Table 4-19A. Water Demand Projections; Industrial/Commercial and Mining/Dewatering WUPs.

PERMIT NUMBER	REV #	PERMITTED		SOURCE	I/C PROJECTED DEMAND 2005-2025					M/D PROJECTED DEMAND 2005-2025					PG PROJECTED DEMAND 2005-2025				
		AVG DAILY PERMITTED QUANTITY (As of 01/24/2003)			2005	2010	2015	2020	2025	2005	2010	2015	2020	2025	2005	2010	2015	2020	2025
012164	.001	76,000	%		0	0	0	0	0	30,020	30,921	31,848	32,804	33,788	0	0	0	0	0
012182	.001	130,000	%		0	0	0	0	0	51,350	52,891	54,477	56,112	57,795	0	0	0	0	0
012215	.001	490,000	%		0	0	0	0	0	193,550	199,357	205,337	211,497	217,842	0	0	0	0	0
012280	.001	53,100	%		0	0	0	0	0	20,975	21,604	22,252	22,919	23,607	0	0	0	0	0
012284	.001	56,500	%		0	0	0	0	0	22,318	22,987	23,677	24,387	25,119	0	0	0	0	0
012317	.001	78,700	%		0	0	0	0	0	31,087	32,019	32,980	33,969	34,988	0	0	0	0	0
012325	.000	13,700	%		0	0	0	0	0	5,412	5,574	5,741	5,913	6,091	0	0	0	0	0
012389	.000	68,500	%		0	0	0	0	0	27,058	27,869	28,705	29,566	30,453	0	0	0	0	0
006233	.004	234,000	Ind %		0	0	0	0	0	0	0	0	0	0	46,800	46,800	46,800	46,800	46,800
Hillsborough County Total (mgd):					21.697	22.348	23.019	23.709	24.421	2.186	2.252	2.319	2.389	2.460	0.047	0.047	0.047	0.047	0.047

Table 4-19A. Water Demand Projections; Industrial/Commercial and Mining/Dewatering WUPs.

PERMITTED		SOURCE	I/C PROJECTED DEMAND 2005-2025					M/D PROJECTED DEMAND 2005-2025					PG PROJECTED DEMAND 2005-2025					
PERMIT NUMBER	REV # (As of 01/24/2003)		AVG DAILY PERMITTED QUANTITY	2005	2010	2015	2020	2025	2005	2010	2015	2020	2025	2005	2010	2015	2020	2025
PASCO COUNTY																		
000451 .002		15,493,000	%	5,329,592	5,489,480	5,654,164	5,823,789	5,998,503	0	0	0	0	0	0	0	0	0	0
000817 .002		36,200	%	12,453	12,826	13,211	13,608	14,016	0	0	0	0	0	0	0	0	0	0
002376 .004		19,300	%	0	0	0	0	0	4,632	4,771	4,914	5,062	5,213	0	0	0	0	0
002424 .002		31,500	%	10,836	11,161	11,496	11,841	12,196	0	0	0	0	0	0	0	0	0	0
003702 .003		95,000	%	0	0	0	0	0	22,800	23,484	24,189	24,914	25,662	0	0	0	0	0
003728 .002		10,000	%	0	0	0	0	0	2,400	2,472	2,546	2,623	2,701	0	0	0	0	0
004826 .005		3,862,000	%	0	0	0	0	0	926,880	954,686	983,327	1,012,827	1,043,212	0	0	0	0	0
004986 .002		47,400	%	16,306	16,795	17,299	17,818	18,352	0	0	0	0	0	0	0	0	0	0
006533 .002		18,700	%	6,433	6,626	6,825	7,029	7,240	0	0	0	0	0	0	0	0	0	0
006930 .001		1,000	%	344	354	365	376	387	0	0	0	0	0	0	0	0	0	0
007976 .001		2,700	%	929	957	985	1,015	1,045	0	0	0	0	0	0	0	0	0	0
008232 .002		59,000	%	0	0	0	0	0	14,160	14,585	15,022	15,473	15,937	0	0	0	0	0
008433 .002		1,000	%	344	354	365	376	387	0	0	0	0	0	0	0	0	0	0
009087 .000		720,000	Ind %	0	0	0	0	0	0	0	0	0	0	0	324,000	324,000	324,000	324,000
009132 .005		331,000	%	113,864	117,280	120,798	124,422	128,155	0	0	0	0	0	0	0	0	0	0
010017 .001		11,000	%	3,681	3,791	3,905	4,022	4,143	0	0	0	0	0	0	0	0	0	0
010413 .002		762,000	Ind %	0	0	0	0	0	0	0	0	0	0	0	601,980	601,980	601,980	601,980
010679 .001		65,400	%	0	0	0	0	0	15,696	16,167	16,652	17,151	17,666	0	0	0	0	0
010764 .001		1,000	%	344	354	365	376	387	0	0	0	0	0	0	0	0	0	0
010772 .002		288,000	Ind %	0	0	0	0	0	0	0	0	0	0	0	202,176	202,176	202,176	202,176
010871 .000		499,400	%	0	0	0	0	0	119,712	123,303	127,002	130,813	134,737	0	0	0	0	0
011066 .001		25,400	%	0	0	0	0	0	6,096	6,279	6,467	6,661	6,861	0	0	0	0	0
011198 .000		1,000	%	344	354	365	376	387	0	0	0	0	0	0	0	0	0	0
011422 .002		15,000	%	0	0	0	0	0	3,600	3,708	3,819	3,934	4,052	0	0	0	0	0
011490 .001		3,000	%	0	0	0	0	0	720	742	764	787	810	0	0	0	0	0
011590 .003		15,000	%	0	0	0	0	0	3,600	3,708	3,819	3,934	4,052	0	0	0	0	0
011605 .000		26,500	%	0	0	0	0	0	6,360	6,551	6,747	6,950	7,158	0	0	0	0	0
011656 .000		13,700	%	0	0	0	0	0	3,288	3,387	3,488	3,593	3,701	0	0	0	0	0
012052 .002		164,000	Ind %	0	0	0	0	0	0	0	0	0	0	0	98,400	98,400	98,400	98,400
Pasco County Total (mgd):				5.495	5.660	5.830	6.005	6.185	1.130	1.164	1.199	1.235	1.272	1.227	1.227	1.227	1.227	1.227

Table 4-19A. Water Demand Projections; Industrial/Commercial and Mining/Dewatering WUPs.

PERMITTED			SOURCE	I/C PROJECTED DEMAND 2005-2025					M/D PROJECTED DEMAND 2005-2025					PG PROJECTED DEMAND 2005-2025				
PERMIT NUMBER	REV #	AVG DAILY PERMITTED QUANTITY (As of 01/24/2003)		2005	2010	2015	2020	2025	2005	2010	2015	2020	2025	2005	2010	2015	2020	2025
012232	.001	1,205,800	%	538,381	554,532	571,168	588,303	605,952	0	0	0	0	0	0	0	0	0	0
012259	.000	494,000	%	0	0	0	0	0	211,926	218,284	224,832	231,577	238,525	0	0	0	0	0
012292	.000	492,700	%	0	0	0	0	0	209,738	216,030	222,511	229,186	236,062	0	0	0	0	0
Polk County Total (mgd):				30.390	31.301	32.240	33.208	34.204	24.984	18.176	18.722	19.283	19.862	16.567	16.567	16.567	16.567	16.567
SARASOTA COUNTY																		
006482	.004	13,000	%	1,860	1,916	1,973	2,032	2,093	0	0	0	0	0	0	0	0	0	0
007808	.002	9,700	%	2,511	2,586	2,664	2,744	2,826	0	0	0	0	0	0	0	0	0	0
010640	.002	25,000	%	6,464	6,657	6,857	7,063	7,275	0	0	0	0	0	0	0	0	0	0
011043	.001	3,100	%	1,442	1,485	1,529	1,575	1,622	0	0	0	0	0	0	0	0	0	0
011516	.001	6,000	%	2,790	2,874	2,960	3,049	3,140	0	0	0	0	0	0	0	0	0	0
011520	.001	1,000	%	465	479	493	508	523	0	0	0	0	0	0	0	0	0	0
011557	.001	1,000	%	465	479	493	508	523	0	0	0	0	0	0	0	0	0	0
011667	.001	4,000	%	1,163	1,197	1,233	1,270	1,308	0	0	0	0	0	0	0	0	0	0
011838	.001	260,000	%	120,900	124,527	128,263	132,111	136,074	0	0	0	0	0	0	0	0	0	0
008817	.006	1,283,800	%	0	0	0	0	0	302,977	312,066	321,428	331,071	341,003	0	0	0	0	0
009766	.003	120,000	%	0	0	0	0	0	28,320	29,170	30,045	30,946	31,874	0	0	0	0	0
011326	.003	4,600	%	0	0	0	0	0	1,086	1,118	1,152	1,186	1,222	0	0	0	0	0
011348	.001	447,000	%	0	0	0	0	0	105,492	108,657	111,916	115,274	118,732	0	0	0	0	0
011367	.001	445,000	%	0	0	0	0	0	105,020	108,171	111,416	114,758	118,201	0	0	0	0	0
011518	.002	213,600	%	0	0	0	0	0	50,410	51,922	53,480	55,084	56,736	0	0	0	0	0
Sarasota County Total (mgd):				0.138	0.142	0.146	0.151	0.155	0.593	0.611	0.629	0.648	0.668	0.000	0.000	0.000	0.000	0.000

Table 4-19A. Water Demand Projections; Industrial/Commercial and Mining/Dewatering WUPs.

PERMITTED		SOURCE	I/C PROJECTED DEMAND 2005-2025					M/D PROJECTED DEMAND 2005-2025					PG PROJECTED DEMAND 2005-2025					
PERMIT NUMBER	REV # (As of 01/24/2003)		AVG DAILY PERMITTED QUANTITY	2005	2010	2015	2020	2025	2005	2010	2015	2020	2025	2005	2010	2015	2020	2025
SUMTER COUNTY																		
000815 .003		1,000	%	425	438	451	464	478	0	0	0	0	0	0	0	0	0	0
002223 .003		5,400	%	2,295	2,364	2,435	2,508	2,583	0	0	0	0	0	0	0	0	0	0
003236 .002		12,500	%	5,313	5,472	5,636	5,805	5,979	0	0	0	0	0	0	0	0	0	0
008487 .001		136,300	%	57,928	59,665	61,455	63,299	65,198	0	0	0	0	0	0	0	0	0	0
009949 .000		38,000	%	15,725	16,197	16,683	17,183	17,699	0	0	0	0	0	0	0	0	0	0
011012 .000		95,000	%	40,375	41,586	42,834	44,119	45,442	0	0	0	0	0	0	0	0	0	0
011259 .000		124,600	%	48,195	49,641	51,130	52,664	54,244	0	0	0	0	0	0	0	0	0	0
011575 .000		16,200	%	6,885	7,092	7,304	7,523	7,749	0	0	0	0	0	0	0	0	0	0
011776 .000		3,000	%	1,275	1,313	1,353	1,393	1,435	0	0	0	0	0	0	0	0	0	0
011864 .000		24,200	%	10,285	10,594	10,911	11,239	11,576	0	0	0	0	0	0	0	0	0	0
012385 .000		330	%	140	144	149	153	158	0	0	0	0	0	0	0	0	0	0
000213 .004		33,167,000	%	0	0	0	0	0	11,906,953	12,264,162	12,632,086	13,011,049	13,401,381	0	0	0	0	0
001334 .003		367,000	%	0	0	0	0	0	95,494	98,359	101,310	104,349	107,479	0	0	0	0	0
007478 .001		160,000	%	0	0	0	0	0	57,440	59,163	60,938	62,766	64,649	0	0	0	0	0
008891 .006		5,257,000	%	0	0	0	0	0	1,887,263	1,943,881	2,002,197	2,062,263	2,124,131	0	0	0	0	0
012255 .000		99,700	%	0	0	0	0	0	35,792	36,866	37,972	39,111	40,285	0	0	0	0	0
Sumter County Total (mgd):				0.189	0.195	0.200	0.206	0.213	13.983	14.402	14.835	15.280	15.738	0.000	0.000	0.000	0.000	0.000
District Total:				61.506	63.282	65.111	66.996	68.937	68.564	67.463	69.366	71.327	73.347	26.890	26.890	26.890	26.890	26.890

Source Codes Used in Table 4: % = Historic Percentage of Permitted Quantity Used
 Bar Reg, Brk Reg, Sar Reg = % Projection Revised by Bartow, Brooksville, or Sarasota Regulatory Staff
 Ind % = Historic Percentage of Permitted Quantity Used Calculated for Individual Permit (Applies to PG Users Only)
 RPQ = Revised Permit Quantity (Applies to Permit 11400 Only; Quantity is Permitted in Polk County but is Actually Used in 4 Counties)