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ANNUAL WATER USE SURVEY - 1979

by

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## ACKNOWLEDGEMENTS

We would like to express our appreciation to all the public water suppliers, industries, institutions, county agricultural agents, power plant operators and others who provided data for this report.

## ANNUAL WATER USE SURVEY: 1979

### INTRODUCTION

The characteristics and categorization of water use within the St. Johns River Water Management District (Figure 1) are described in this report. Water use is presented in the following eight (8) categories: Public Supply, Domestic Self Supplied, Industrial Self Supplied, Institutional Self Supplied, Agricultural Irrigation, Livestock, Thermoelectric Power Generation and Heat Pump/Air Conditioning - Lawn Irrigation. Figures for each category are presented at District-wide and at county levels. The small portion of Bradford County within the St. Johns River Water Management District is not included due to the fact that water use figures are insignificant (less than 0.01 MGD) for all categories surveyed.

Data collection for the report is a cooperative effort by St. Johns Water Management District (SJRWMD) and the United States Geological Survey, (U.S.G.S.). Data for public suppliers, self supplied industry, institutions and thermoelectric power plants are collected from questionnaires and personal interviews. Agricultural and livestock data are provided by representatives of the Florida Cooperative Extension Service (IFAS), the USDA Soil Conservation Service, and the USDA Agricultural Stabilization and Conservation Service (ASCS). Domestic self supplied water use figures are calculated from the State of Florida Population Figures (Bureau of Economic and Business Research, University of Florida, 1979) and St. Johns River Water Management District per capita water use estimates (SJRWMD, 1977). The heat pump/air conditioning, lawn irrigation figures are calculated from the Brevard County well inventory list 1975-77 and the Volusia County Vol-Data File (USGS 11/20/80).

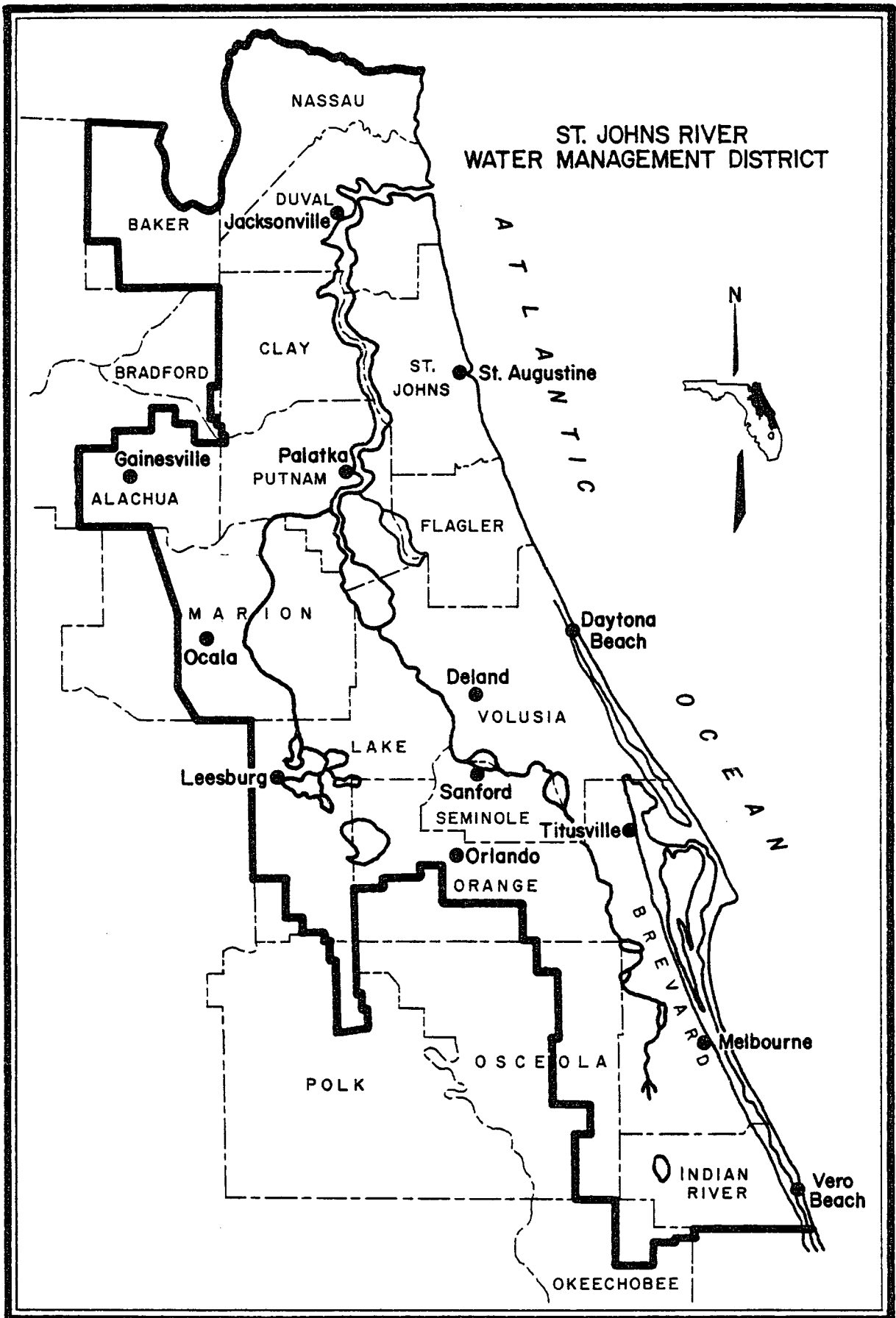


Figure 1.--St. Johns River Water Management District

This category is calculated for only two counties. Brevard and Volusia are the only counties having data available for heat pump/air conditioning irrigation.

The Annual Water Use Survey, 1979, is an on-going effort by the District to provide the following:

1. An inventory of all water users within the SJRWMD
2. Records and tabulations of water usage by county and category
3. Records of yearly, monthly and daily water withdrawals
4. Establishment of a data base from which water use models can be developed.

This information forms a base for future water resource decision-making and will help identify potential problem areas of water supply-demand imbalance within the St. Johns River Water Management District.



## REPORT FORMAT

This report is separated into three sections. Section I explains data collection procedures and calculations used for each category.

Section II shows the following eight categories presented by counties; public, domestic, institution, industrial, agricultural and livestock irrigation, thermoelectric and heat pump/air conditioning. A District total water use summary concludes this section.

Section III presents water use on a county level. Water use data for each county is presented for the following eight categories, public, domestic, institutional, industrial, agricultural and livestock irrigation, thermoelectric, and heat pump/air conditioning. Refinements in agricultural irrigation in this section point out two important factors:

1. Acres farmed and irrigated
2. Monthly distribution of water use for irrigation

These two factors will provide an accurate picture of agricultural water use. Appendix IV provides a comparison between the 1978 and 1979 figures.

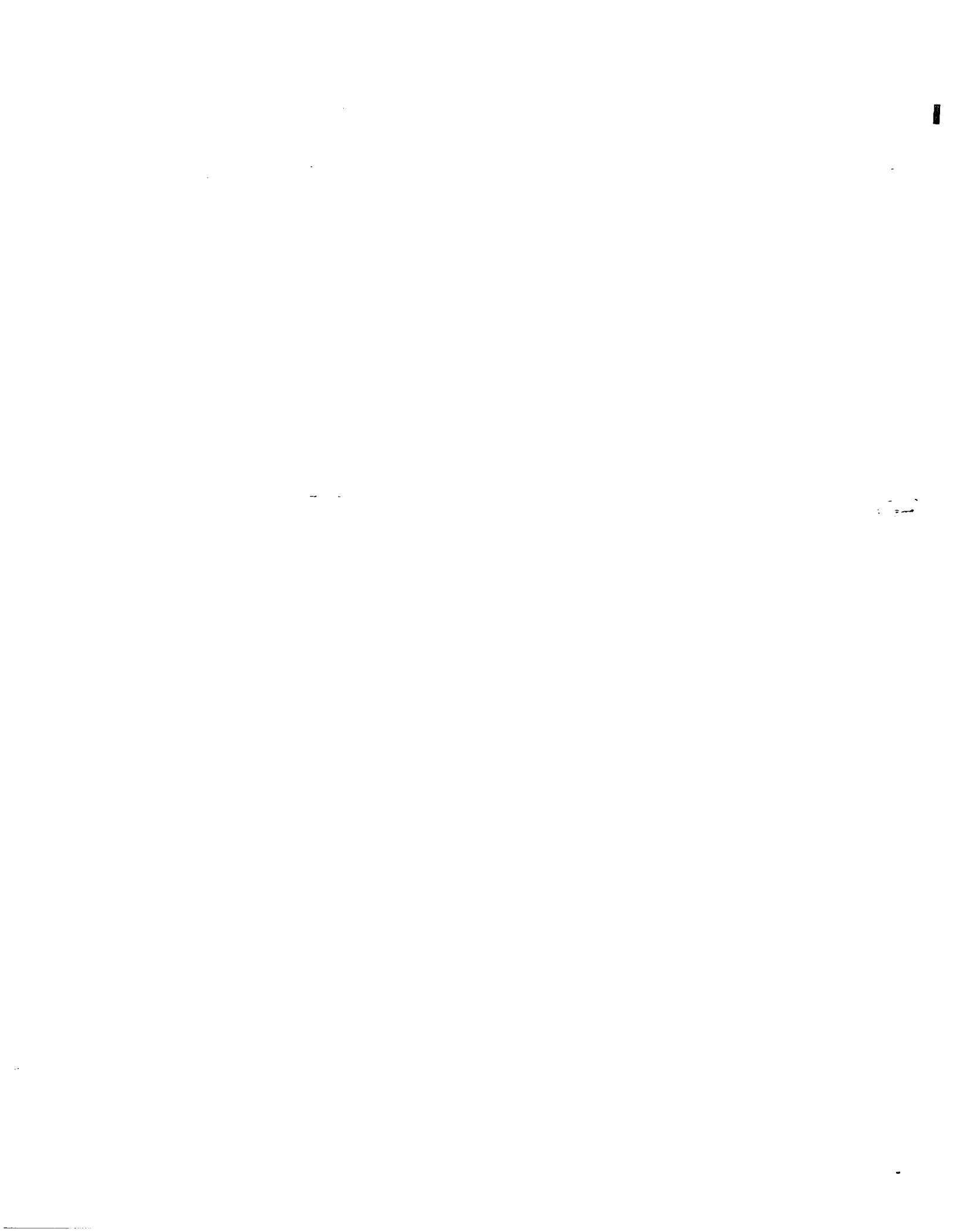
All water use figures in this report are presented in Million Gallons per Day (MGD) for all categories and counties. Agricultural irrigation is also presented in acre-feet per year (Ac-Ft/yr.).

For more specific information on monthly withdrawals by category or counties, please contact the SJRWMD, Water Resources Department.

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## SECTION I

In this section data collection and tabulation procedures for the 1979 Annual Water Use Survey are described. Most procedures are similar to the 1978 report, however additional modifications are presented.

1. Institutional self-supplied water use is separated from Industrial water use and established as a distinct category.
2. A new category ground water heat pump/air conditioning lawn irrigation is listed.
3. Within agricultural irrigation an inventory of golf course water consumption is listed in turf grass.
4. In agricultural irrigation a new water source called re-used water has been added. This is sewage effluent, which is commonly used in turf grass irrigation.
5. Saline ground water was added as a source to coincide with surface saline water use.
6. The threshold for public supply was lowered from 2,000 to 1,000 population served.

### PUBLIC SUPPLY DATA COLLECTION AND TABULATION

Data for this category are collected by USGS and the SJRWMD from private and municipal utilities serving a population of over 1,000. The following data are collected:

1. Total monthly water withdrawals for January through December of 1979
2. Figures for the population served in 1979.
3. Source of water: A) ground or surface  
B) saline or fresh
4. Well locations or surface source location.

This information forms a data base for public water suppliers.

## DOMESTIC SELF SUPPLIED DATA COLLECTION AND TABULATION

This category of water use is difficult to determine due to the fact that individual water supply withdrawals are seldom recorded on a continuous basis. Therefore, water use in this category is an estimate. The estimate is based on three factors:

1. The county population or portion of county population in the St. Johns River Water Management District.
2. The population served by public and private utilities per county
3. The amount of water withdrawn for public supply use in each county.

In order to estimate water use figures for this category it is first necessary to arrive at an estimate of gallons per capita day (GPCD). The term GPCD is defined as the number of gallons used by one person in a day. The figures for GPCD are derived by dividing the amount of water used daily for public supply by the population served in each county. To estimate figures for domestic self-supplied water use, GPCD is multiplied by the population not served by a public water supplier.

Domestic self-supplied water use includes both residential and commercial uses. This coupled with the fact that water use in each county varies, one common district-wide GPCD number would not represent an individual area's actual use. Thus, a county's individual GPCP number provides a better estimate for domestic self-supplied water use.

## INDUSTRIAL AND INSTITUTIONAL SELF SUPPLIED DATA COLLECTION AND TABULATION

In the 1978 Annual Water Use Survey, Institutional water use is included in the Industrial water use category. This year it has been placed into its own category. However, data collection procedures for Institution and

Industrial remain the same. Industries using self supplied water in product production are also inventoried. Institutions using water from a self supplied source (ground or surface) are also accounted for. This information is obtained from a questionnaire mailed to the users.

#### AGRICULTURE DATA COLLECTION AND TABULATION

Agricultural water use consists of irrigation and livestock water use. Both are calculated using data collected from county representatives of the Florida Cooperative Extension Service, USDA Soil Conservation Service, and the USDA Agricultural Stabilization and Conservation Service.

In determining irrigation water use, data collected from each county representative includes total number of irrigated acres farmed and the types of irrigation systems employed by crop. The modified Blaney-Criddle model for evapotranspiration is used to determine the amount of supplemental water needed for a crop. The model is based on the irrigation method employed, the season the crop was grown, general crop location, and associated atmospheric conditions (USDA, 1967). Irrigation water use data is given in both acre-feet per year (Ac-Ft/yr) and million gallons per day (MGD). The MGD figure reflects the amount of water that would be used each day if irrigation occurred every day of the year, although this does not occur in practice. Application rates are shown in inches per year (in/yr). Where evapotranspiration data is not available from the Blaney-Criddle model to make these calculations, an average annual industry water use figure was used. For example, the Institute of Food and Agricultural Sciences, (IFAS), University of Florida, suggest one hundred inches per year as the average annual application rate for ornamentals. Volusia County representatives estimate sixty-five inches per year per acre as the average annual application rate for ferns. Improved pasture water use is calculated at 50% of the optimum application rate.

To determine livestock water use, data collected from the county representatives includes the number of individual animals in each of the livestock categories for each of the 19 counties within the District. To derive water use estimates for each category of livestock, the total number of animals are multiplied by gallons used per day per animal as estimated by IFAS. Livestock water use factors include both animal drinking water needs and dairy cattle washdown uses.

Tables presented within the following sections for each county include use per animal in gallons per day (GPD), the number of animals in each category, and the total water withdrawals for each livestock category in million gallons per day (MGD).

#### HEAT PUMP/AIR CONDITIONING, LAWN IRRIGATION DATA COLLECTION AND TABULATION

This is a new category created for the 1979 report and is expected to be expanded in future publications. A staff analysis based on Brevard County well inventory data showed that ground water heat pumps represent a major use of water. Because this is a new category and the time frame involved in the preparation of the report was limited no data could be collected for other counties with a potential for this use. The only data available was acquired from the Volusia County Vol-Data File (USGS 11-20-80) and the Brevard County well inventory (USGS Brevard County 1975-1977).

These two files are inventories of wells within each county listing depth, diameter, use and location. In analyzing this data, the following criteria are used.

1. The well must be in the Floridan aquifer
2. The well must be less than 4 inches in diameter or larger if specifically quoted.
3. The well use must be either domestic lawn irrigation or heat pump/AC or both.

Use of the criterion mentioned above eliminated shallow wells, domestic wells and agricultural irrigation wells from this category. Any well meeting these criteria was plotted on a map to determine how many wells are in artesian free flowing or non free-flowing areas.

In flowing areas it is estimated that a heat pump unit uses 11,520 gallons per day (GPD). In a non-flowing area an estimated 4,580 gallons per day is used. Multiplying the number of wells in each area by the appropriate gallon per day value, an estimated water use for this category is derived.

#### THERMOELECTRIC POWER PLANT DATA COLLECTION AND TABULATION

Data from 12 active power plants within the SJRWMD (Figure 2) are collected for both surface and ground water withdrawals. The surface water withdrawals are metered. However, many of the ground water withdrawals are estimated. From these monthly figures an MGD value is derived.



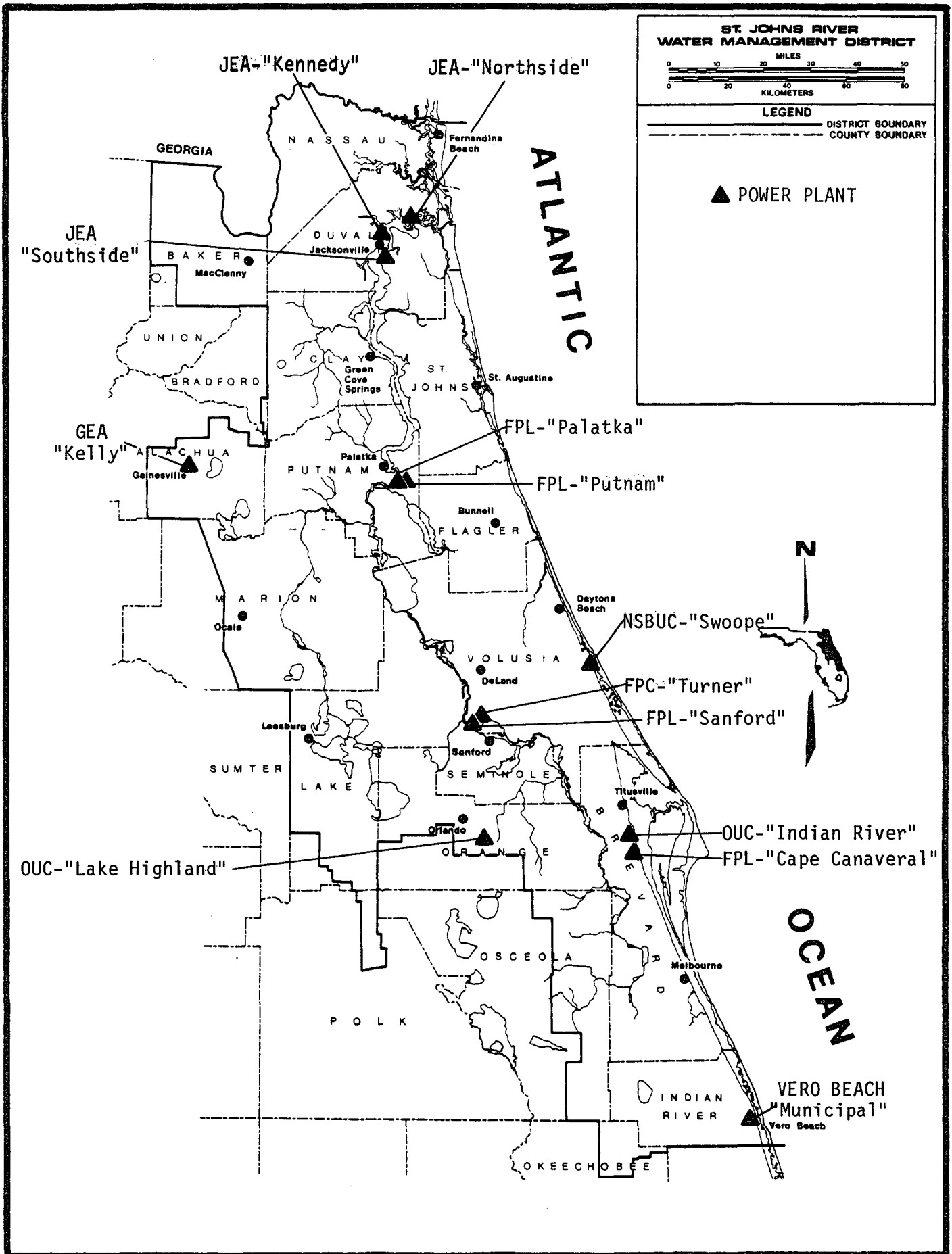


Figure 2.--Thermo-Electric Power Plants Within The St. Johns River Water Management District

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## SECTION II

### PUBLIC WATER USE FINDINGS

The total population of the St. Johns River Water Management District in 1979 was 2,149,974 of which 1,542,002 or 72% of the population was served by a municipal or private water supplier. Of the 257.35 MGD withdrawn for public water use 95.4% is fresh ground water (245.39 MGD), 4.6% is fresh surface water (11.88 MGD) and less than .01% is saline ground water. Public water use accounts for 14% of the total fresh water uses district wide.

Orange (79.29 MGD) and Duval (63.67 MGD) Counties account for 30% and 25% of the total public water used respectively (Table 1). Volusia (28.34 MGD), Seminole (18.78 MGD), Brevard (18.42 MGD), and Alachua (15.04 MGD) Counties are the only other counties of significant use. The City of Cocoa's (Brevard County) well fields located in Orange County are also accounted for in Orange Counties total. Of the 76.29 MGD withdrawn in Orange County, 17.51 MGD supplies Brevard County for the City of Cocoa's use. The only withdrawal from surface water for public water supply is the City of Melbourne, which derives its supply from Lake Washington in the St. Johns River. The only saline ground water withdrawal is in Ponce Inlet, Volusia County.

Public water use amounted to 233.84 MGD in 1978 as compared to 257.35 MGD in 1979, an increase of 23.51 MGD or 9%. This increase may have been influenced by the following factors:

1. Change in data collection techniques, which could have accounted for an increased response from more utilities in 1979 than 1978
2. Natural increase, due to a change in demands.

TABLE I PUBLIC WATER USE BY COUNTY 1979

COUNTY	WATER WITHDRAWN (MGD)								1979 TOTALS	
	FRESH WATER				SALINE WATER				(MGD)	PERCENT
	GROUND	SURFACE	TOTAL	PERCENT	GROUND	SURFACE	TOTAL			
ALACHUA (1)	15.04	0.0	15.04	6	0.0	0.0	0.0	15.04	6	
BAKER	0.61	0.0	0.61	0 (2)	0.0	0.0	0.0	0.61	0 (2)	
BREVARD	6.54	11.88	18.42	7	0.0	0.0	0.0	18.42	7	
CLAY	5.24	0.0	5.24	2	0.0	0.0	0.0	5.24	2	
DUVAL	63.67	0.0	63.67	25	0.0	0.0	0.0	63.67	25	
FLAGLER	1.37	0.0	1.37	0 (2)	0.0	0.0	0.0	1.37	0 (2)	
INDIAN RIVER	6.23	0.0	6.23	2	0.0	0.0	0.0	6.23	2	
LAKE (1)	10.59	0.0	10.59	4	0.0	0.0	0.0	10.59	4	
MARION (1)	5.07	0.0	5.07	2	0.0	0.0	0.0	5.07	2	
NASSAU	2.32	0.0	2.32	0 (2)	0.0	0.0	0.0	2.32	0 (2)	
WEEKS (1)	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
ORANGE (1)	76.29	0.0	76.29	30	0.0	0.0	0.0	76.29	30	
OSCEOLA (1)	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
PULK (1)	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
PUTNAM	2.55	0.0	2.55	1	0.0	0.0	0.0	2.55	1	
SEMINOLE	18.78	0.0	18.78	7	0.0	0.0	0.0	18.78	7	
ST. JOHNS	2.83	0.0	2.83	1	0.0	0.0	0.0	2.83	1	
VOLUSIA	28.26	0.0	28.26	11	0.08	0.0	0.08	28.34	11	
DISTRICT TOTAL	245.39	11.88	257.27		0.08	0.0	0.08	257.35		

1 THESE COUNTIES ARE PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.  
 2 HAS A VALUE OF LESS THAN 1.0 PERCENT

## DOMESTIC SELF-SUPPLIED WATER USE

As indicated in the Public Water Use section, 72% of the District's population is served by public water, thus, 28% or 607,972 people are served by small utilities not inventoried or are self-supplied. In order to calculate domestic water use, gallons per capita day (GPCD) was estimated for each county. To estimate figures for Domestic Self-Supplied water use, GPCD is multiplied by the population not served by a public utility. The District average GPCD is 170.84, although a single family use is about 115 GPCD. However, the 170.84 figure accounts for public supplied commercial and Industrial Water Use. Indian River County has the highest GPCD at 250.07. The county with the lowest value is St. Johns at 121.00.

In addition to GPCD, total water use was calculated for each county (Table 2). Duval County has the highest total water use amounting to 46.17 MGD or 42% of the total domestic use. No other county has a value of over 8.0 MGD for this category.

It would be inaccurate to compare 1978 to 1979 due to the fact that in 1978 a common GPCD Figure was used (120 GPCD). In 1979 the figure used is based on individual county use which in all cases was greater than the 120 GPCD used in 1978. Domestic self-supplied water use in 1979 (109.67 MGD) accounts for 6% of the total fresh water used.

TABLE 2 DOMESTIC SELF-SUPPLIED WATER USE BY COUNTY 1979

COUNTY	WATER WITHDRAWN (MGD)								1979 TOTALS	
	FRESH WATER				SALINE WATER				(MGD)	PERCENT
	GROUND	SURFACE	TOTAL	PERCENT	GROUND	SURFACE	TOTAL			
ALACHUA (1)	0.82	0.0	0.82	0 (2)	0.0	0.0	0.0	0.82	0 (2)	
BAKER	1.33	0.0	1.33	1	0.0	0.0	0.0	1.33	1	
BREVARD	3.3	0.0	3.3	3	0.0	0.0	0.0	3.3	3	
CLAY	2.49	0.0	2.49	2	0.0	0.0	0.0	2.49	2	
DUVAL	46.17	0.0	46.17	42	0.0	0.0	0.0	46.17	42	
FLAGLER	0.33	0.0	0.33	0 (2)	0.0	0.0	0.0	0.33	0 (2)	
INDIAN RIVER	7.96	0.0	7.96	7	0.0	0.0	0.0	7.96	7	
LAKE (1)	5.64	0.0	5.64	5	0.0	0.0	0.0	5.64	5	
MARION (1)	7.89	0.0	7.89	7	0.0	0.0	0.0	7.89	7	
NASSAU	4.09	0.0	4.09	4	0.0	0.0	0.0	4.09	4	
OKEECHOBEE (1)	0.04	0.0	0.04	0 (2)	0.0	0.0	0.0	0.04	0 (2)	
ORANGE (1)	5.47	0.0	5.47	5	0.0	0.0	0.0	5.47	5	
OSCEOLA (1)	0.03	0.0	0.03	0 (2)	0.0	0.0	0.0	0.03	0 (2)	
FOLK (1)	0.71	0.0	0.71	0 (2)	0.0	0.0	0.0	0.71	0 (2)	
FUTNAM	7.16	0.0	7.16	7	0.0	0.0	0.0	7.16	7	
SEMINOLE	7.57	0.0	7.57	7	0.0	0.0	0.0	7.57	7	
ST. JOHNS	2.73	0.0	2.73	2	0.0	0.0	0.0	2.73	2	
VOLUSIA	5.94	0.0	5.94	5	0.0	0.0	0.0	5.94	5	
DISTRICT TOTAL	109.67	0.0	109.67		0.0	0.0	0.0	109.67		

1 THESE COUNTIES ARE PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.  
 2 HAS A VALUE OF LESS THAN 1.0 PERCENT

## INSTITUTIONAL WATER USE

Institutional water use for 1979 amounted to 9.51 MGD or 0.5% of the total fresh water used. This is a relatively small category consisting of correctional institutions, hospitals, schools, and military installations. In future publications, this category will include parks and recreational water use.

During 1979 Duval County used 7.09 MGD and Alachua County used 1.16 MGD in this category (Table 3). Within Duval County are three major military installations (Cecil Field, Jacksonville N.A.S. and Mayport N.S.) and one major university (Jacksonville University). Alachua County (1.16 MGD) accounts for the University of Florida. Orange County is the only other county with a significant value (.62 MGD) which reflects the University of Central Florida.

In 1978, institutional water use was included in the industrial category. The 1978 total was calculated to be 11.39 MGD of fresh ground water compared to 9.51 MGD in 1979. Water use in this category decreased 1.88 MGD from 1978 to 1979. This decrease may have been influenced by the following factors:

1. Change in data collection techniques.
2. A natural decrease due to a change in demand.



TABLE 3 INSTITUTIONAL SELF-SUPPLIED WATER USE BY COUNTY 1979

COUNTY	WATER WITHDRAWN (MGD)								1979 TOTALS	
	FRESH WATER				SALINE WATER				(MGD)	PERCENT
	GROUND	SURFACE	TOTAL	PERCENT	GROUND	SURFACE	TOTAL			
ALACHUA (1)	1.16	0.0	1.16	12	0.0	0.0	0.0	1.16	12	
BAKER	0.29	0.0	0.29	3	0.0	0.0	0.0	0.29	3	
BREVARD	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
CLAY	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
DUVAL	7.09	0.0	7.09	75	0.0	0.0	0.0	7.09	75	
FLAGLER	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
INDIAN RIVER	0.04	0.0	0.04	0 (2)	0.0	0.0	0.0	0.04	0 (2)	
LAKE (1)	0.03	0.0	0.03	0 (2)	0.0	0.0	0.0	0.03	0 (2)	
MARION (1)	0.23	0.0	0.23	2	0.0	0.0	0.0	0.23	2	
NASSAU	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
WEEKS (1)	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
ORANGE (1)	0.62	0.0	0.62	7	0.0	0.0	0.0	0.62	7	
OSCEOLA (1)	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
POLK (1)	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
PUTNAM	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
SEMINOLE	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
ST. JOHNS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
WALTON	0.05	0.0	0.05	0 (2)	0.0	0.0	0.0	0.05	0 (2)	
DISTRICT TOTAL	9.51	0.0	9.51		0.0	0.0	0.0	9.51		

1 THESE COUNTIES ARE PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.  
 2 HAS A VALUE OF LESS THAN 1.0 PERCENT

## INDUSTRIAL WATER USE

Industrial water use in the St. Johns River Water Management District during 1979 totaled 226.10 MGD as shown in Table 4. Of that total, 163.39 MGD is fresh water, and 62.71 MGD is saline surface water. Of the 163.39 MGD, 140.25 MGD (85%) is ground water and the remaining 23.14 MGD is surface fresh. The paper and allied products industries withdraw the largest amount of water, with other major users being food and kindred products along with fruit and vegetable processing.

Nassau, Duval, and Putnam Counties are the highest fresh ground water user in this category, 55.41 MGD, 35.8 MGD, 20.5 MGD, respectively. All three counties reflect the influence of paper and allied products industries within those counties. The only other county with a significant value in this category is Lake County using 13.22 MGD of fresh water. This figure can be attributed in part to the presence of citrus processing plants and various mining operations.

Putnam County is the only user of Fresh Surface Water (23.14 MGD) for industrial purposes. Duval (60.71 MGD) and Nassau (2.0 MGD) counties are the only users of Surface Saline Water for industrial use in 1979.

Industrial water use in 1979 amounted to 9% (163.39 MGD) of the total fresh water use. In 1978 this category, deducting Institutional use, amounted to 12.5% (187.41 MGD).

TABLE 4 INDUSTRIAL SELF-SUPPLIED WATER USE BY COUNTY 1979

COUNTY	WATER WITHDRAWN (MGD)								1979 TOTALS	
	FRESH WATER				SALINE WATER				(MGD)	PERCENT
	GROUND	SURFACE	TOTAL	PERCENT	GROUND	SURFACE	TOTAL			
ALACHUA (1)	0.07	0.0	0.07	0 (2)	0.0	0.0	0.0	0.07	0 (2)	
BAKER	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
BREVARD	0.23	0.0	0.23	0 (2)	0.0	0.0	0.0	0.23	0	
CLAY	5.14	0.0	5.14	3	0.0	0.0	0.0	5.14	2	
DUVAL	35.8	0.0	35.8	22	0.0	60.71	60.71	96.51	43	
FLAGLER	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
INDIAN RIVER	0.63	0.0	0.63	0 (2)	0.0	0.0	0.0	0.63	0 (2)	
LAKE (1)	13.22	0.0	13.22	8	0.0	0.0	0.0	13.22	6	
MARION (1)	0.06	0.0	0.06	0 (2)	0.0	0.0	0.0	0.06	0 (2)	
NASSAU	55.41	0.0	55.41	34	0.0	2.0	2.0	57.41	26	
OKEECHOBEE (1)	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
ORANGE (1)	5.74	0.0	5.74	4	0.0	0.0	0.0	5.74	3	
OSCEOLA (1)	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
FOLK (1)	0.01	0.0	0.01	0 (2)	0.0	0.0	0.0	0.01	0 (2)	
PUTNAM	20.5	23.14	43.64	26	0.0	0.0	0.0	43.64	19	
SEMINOLE	3.1	0.0	3.1	2	0.0	0.0	0.0	3.1	1	
ST. JOHNS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
VOLUSIA	0.34	0.0	0.34	0 (2)	0.0	0.0	0.0	0.34	0 (2)	
DISTRICT TOTAL	140.25	23.14	163.39		0.0	62.71	62.71	226.1		

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 2 HAS A VALUE OF LESS THAN 1.0 PERCENT

18

## IRRIGATION WATER USE

A total of 1,108,413 acres were farmed in the District during 1979; 16% of the total land use. Of this total, approximately 408,963 acres, 37% of all farmed acres, were irrigated in 1979. The major crops in terms of irrigated acreage and total water used were citrus and improved pasture. Irrigation methods included variations of sprinklers, seepage, and low pressure-low volume systems. Twenty-six types of crops were irrigated by one or more of these methods during 1979.

Brevard, Indian River, and Lake Counties have the largest amounts of irrigated acres and the heaviest concentrations of citrus and pasture (Table 5). Indian River County is the largest user of surface water (234.68 MGD) accounting for 77% of all surface water used for irrigation in the District. Brevard County is the largest single user of ground water (248.7 MGD), accounting for 38% of all ground water used for irrigation District-wide.

Irrigated acres increased by 46,093 acres from 1978 to 1979. Indian River County accounted for the largest increase, 38% (17,288 acres), and Brevard the second largest increase, 25% (11,540 acres).

Water use for irrigation accounted for 52% of the fresh water used in 1979. The 967.01 MGD of fresh water used made agricultural irrigation the largest water using category in the district. Irrigation accounted for 61% (306.57 MGD) of the total fresh surface water and 48% (660.44 MGD) of the total ground water used in 1979.

TABLE 5 AGRICULTURAL IRRIGATION WATER USE BY COUNTY 1979

COUNTY	ACRES FARMED		WATER WITHDRAWN (MGD)				RE-USED (2)	WATER WITHDRAWN 1979 TOTALS	
	TOTAL	IRRIGATED	GROUND	FRESH WATER PERCENT	SURFACE	PERCENT		(MGD)	PERCENT
ALACHUA (1)	87,316	9,597	7.57	1	1.81	0 (3)	0.0	9.38	1
BAKER	9,663	369	0.76	0 (3)	0.0	0	0.0	0.76	0 (3)
BREVARD	142,146	83,220	248.7	38	31.8	10	0.88	280.5	29
CLAY	43,195	620	1.98	0 (3)	0.0	0	0.0	1.98	0 (3)
DUVAL	15,429	2,435	6.9	1	0.69	0 (3)	0.0	7.59	0 (3)
FLAGLER	22,821	7,233	8.37	1	0.18	0 (3)	0.0	8.55	0 (3)
INDIAN RIVER	141,312	113,216	66.15	10	234.68	77	0.8	300.83	31
LAKE (1)	188,083	70,338	108.93	17	17.54	8	0.0	126.47	13
MARION (1)	89,293	13,935	18.16	3	0.81	0 (3)	0.0	18.97	2
NASSAU	7,181	462	0.59	0 (3)	0.03	0 (3)	0.25	0.62	0 (3)
OKEECHOBEE (1)	21,400	3,982	9.98	2	1.67	0 (3)	0.0	11.65	1
ORANGE (1)	54,500	25,967	40.76	6	2.22	0 (3)	0.0	42.98	5
OSCEOLA (1)	126,001	1,451	4.29	0 (3)	1.01	0 (3)	0.0	5.3	0 (3)
POLK (1)	19,500	10,100	11.92	2	0.62	0 (3)	0.0	12.54	1
PUTNAM	49,465	17,925	47.82	7	5.31	2	0.0	53.13	6
SEMINOLE	22,238	12,831	27.35	4	1.59	0 (3)	0.0	28.94	3
ST. JOHNS	35,805	25,621	29.32	4	0.4	0 (3)	1.11	29.72	3
VOLUSIA	33,065	9,661	20.89	3	6.21	2	0.0	27.1	3
DISTRICT TOTAL	1,108,413	408,963	660.44		306.57		3.04	967.01	

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 2 RE-USED WATER IS NOT ACCOUNTED FOR IN WITHDRAW TOTALS  
 3 HAS A VALUE OF LESS THAN 1.0 PERCENT

## LIVESTOCK WATER USE

In 1979, 7.04 MGD of fresh ground water and 8.13 MGD of fresh surface water was withdrawn for livestock water use totaling 15.17 MGD (Table 6). Clay, Nassau and Duval Counties are the largest users of fresh water for livestock accounting for 40% of the total. Dairy cattle, required the most water, 4.12 MGD of ground water and 4.37 MGD of surface water.

This category represents less than 1% of the total fresh water use in the District during 1979. Fresh water used by livestock production decreased by 1.47 MGD in 1979 compared to 1978.

TABLE 6 LIVESTOCK WATER USE BY COUNTY 1979

COUNTY	WATER WITHDRAWN (MGD)									
	FRESH WATER				SALINE WATER			1979 TOTALS		
	GROUND	SURFACE	TOTAL	PERCENT	GROUND	SURFACE	TOTAL	(MGD)	PERCENT	
ALACHUA (1)	0.36	0.36	0.72	5	0.0	0.0	0.0	0.72	5	
BAKER	0.41	0.59	1.0	7	0.0	0.0	0.0	1.0	7	
BREVARD	0.52	0.37	0.89	6	0.0	0.0	0.0	0.89	6	
CLAY	1.26	1.27	2.53	17	0.0	0.0	0.0	2.53	17	
DUVAL	0.38	1.56	1.94	13	0.0	0.0	0.0	1.94	13	
FLAGLER	0.07	0.05	0.12	0 (2)	0.0	0.0	0.0	0.12	0 (2)	
INDIAN RIVER	0.08	0.34	0.42	3	0.0	0.0	0.0	0.42	3	
LAKE (1)	0.37	0.36	0.73	5	0.0	0.0	0.0	0.73	5	
MARION (1)	1.09	0.05	1.14	7	0.0	0.0	0.0	1.14	7	
NASSAU	0.83	0.83	1.66	11	0.0	0.0	0.0	1.66	11	
OSCEOLA (1)	0.58	0.25	0.83	5	0.0	0.0	0.0	0.83	5	
ORANGE (1)	0.4	0.41	0.81	5	0.0	0.0	0.0	0.81	5	
USCEOLA (1)	0.0	0.57	0.57	4	0.0	0.0	0.0	0.57	4	
PULK (1)	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
PUTNAM	0.28	0.27	0.55	3	0.0	0.0	0.0	0.55	3	
SEMINOLE	0.18	0.1	0.28	2	0.0	0.0	0.0	0.28	2	
ST. JOHNS	0.15	0.09	0.24	2	0.0	0.0	0.0	0.24	2	
VOLUSIA	0.08	0.66	0.72	5	0.0	0.0	0.0	0.72	5	
DISTRICT TOTAL	7.04	8.13	15.17		0.0	0.0	0.0	15.17		

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 2 HAS A VALUE OF LESS THAN 1.0 PERCENT

## THERMOELECTRIC POWER GENERATION WATER USE

Thermoelectric water use can be divided into two basic uses, potable and boiler make up water and cooling water. Potable and boiler make up water are supplied by either a public supplier or self-supplied on-site ground water wells and in many cases a combination of the two. Water used for potable and boiler purposes are very small compared to water used for cooling purposes. Large amounts of surface water (saline or fresh) are used for the cooling function. However, 100% of this water is returned to its source.

The Gainesville Kelly Plant, Alachua Co., (Figure 3) is the only plant using ground water (0.71 MGD) for cooling. The remaining 11 plants use a total of 4.0 MGD ground water. This water is used primarily for potable and boiler make up. The total ground water use for this category for 1979 is 4.71 MGD, (Table 7) or less than 1% of the District's total.

The total surface water use in 1979 is 2712.29 MGD. Of that 149.33 MGD is fresh and 2562.96 MGD is saline. Volusia (75.03 MGD) and Orange (73.61 MGD) Counties have the largest fresh surface water withdrawals for 1979. Brevard (1282.15 MGD) and Duval (1225.0 MGD) Counties account for the largest saline surface water withdrawals in 1979. Volusia County also used 15.76 MGD of saline surface water.

Surface water withdrawals for cooling purposes can change greatly from year to year. This fluctuation can be attributed to a shutdown of a plant's boilers for any period of time.



TABLE 7 THERMO-ELECTRIC WATER USE BY COUNTY 1979

COUNTY	WATER WITHDRAWN (MGD)								1979 TOTALS	
	FRESH WATER				SALINE WATER				(MGD)	PERCENT
	GROUND	SURFACE	TOTAL	PERCENT	GROUND	SURFACE	TOTAL			
ALACHUA (1)	0.71	0.0	0.71	0 (2)	0.0	0.0	0.0	0.71	0 (2)	
BAKER	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
BREVARD	0.26	0.0	0.26	0 (2)	0.0	1282.15	1282.15	1282.51	47	
CLAY	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
DUVAL	2.65	0.0	2.65	2	0.0	1225.0	1225.0	1227.65	45	
FLAGLER	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
INDIAN RIVER	0.43	0.0	0.43	0 (2)	0.0	40.05	40.05	40.48	2	
LAKE (1)	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
MARION (1)	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
NASSAU	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
OKEECHOBEE (1)	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
ORANGE (1)	0.0	73.61	73.61	48	0.0	0.0	0.0	73.61	3	
OSCEOLA (1)	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
FOLK (1)	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
FUTNAM	0.33	0.69	1.02	0 (2)	0.0	0.0	0.0	1.02	0 (2)	
SEMINOLE	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
ST. JOHNS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
VOLUSIA	0.33	75.03	75.36	49	0.0	15.76	15.76	91.12	3	
DISTRICT TOTAL	4.71	149.33	154.04		0.0	2562.96	2562.96	2717.0		

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 2 HAS A VALUE OF LESS THAN 1.0 PERCENT

## HEAT PUMP/AIR CONDITIONING WATER USE

Existing data for this category was available for Brevard and Volusia Counties. Table 8 below indicates the number of wells in each county and a water use figure of the total number of wells.

It is estimated that a heat pump/AC unit in a free flowing area uses 11,520 gallons per day. In a non-free flowing area the estimated use per unit is 4,580 gallons per day. These figures were multiplied by the total number of wells in the designated areas. This process was used to calculate the total MGD value used in each county (Table 9).

Heat pump/air conditioning units in only two counties accounted for 14% (184.46 MGD) of the total fresh ground water used in the entire District. It is estimated that 90% of the water used for heat pump units is not returned to its source, the Floridan aquifer. This information is evidence that data for this category should be collected for the remaining 17 counties in the District.

Table 8  
Number of Heat Pump/AC Wells

	<u>Free Flowing</u>		<u>Non-Free Flowing</u>		<u>Total</u>	
	<u>Wells</u>	<u>MGD</u>	<u>Wells</u>	<u>MGD</u>	<u>Wells</u>	<u>MGD</u>
Brevard	15,159	174.63	1016	4.66	16,175	179.29
Volusia	0	0.0	1346	6.16	1346	6.16
Total	15,159	174.63	2362	10.82	17,521	184.46

TABLE 9 HEAT PUMP/AC-LAWN IRRIGATION WATER USE BY COUNTY 1979 (2)

COUNTY	WATER WITHDRAWN (MGD)								1979 TOTALS	
	FRESH WATER				SALINE WATER				(MGD)	PERCENT
	GROUND	SURFACE	TOTAL	PERCENT	GROUND	SURFACE	TOTAL			
ALACHUA (1)	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
BAKER	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
BREVARD	179.29	0.0	179.29	97	0.0	0.0	0.0	179.29	97	
CLAY	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
DUVAL	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
FLAGLER	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
INDIAN RIVER	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
LAKE (1)	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
MARION (1)	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
NASSAU	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
OSCEOLA (1)	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
PALM BEACH (1)	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
PULK (1)	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
PUTNAM	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
SEMINOLE	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
ST. JOHNS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	
VOLUSIA	6.16	0.0	6.16	3	0.0	0.0	0.0	6.16	3	
DISTRICT TOTAL	185.45	0.0	185.45		0.0	0.0	0.0	185.45		

1 THESE COUNTIES ARE PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.  
 2 DATA FOR 1979 WAS ONLY COLLECTED IN BREVARD AND VOLUSIA COUNTIES.

## TOTAL WATER USE SUMMARY

Total water use by categories for 1979 is shown in Table 10. Agricultural Irrigation is the largest water use category for 1979 using 48% of the ground water and 52% of the total fresh water (Figure 3). The second largest category is public supply using 18% of the ground water and 14% of the total fresh water. Other categories using substantial amounts of ground water are Heat Pump/Air Conditioning with 14%. Industrial 10% and domestic self-supplied 8%. The remaining three categories Institutional, Livestock, Thermoelectric Power Generation, accounted for less than 2% of the total ground water used for 1979.

The two major fresh surface water using categories are Agricultural Irrigation and Thermoelectric Power Generation accounting for 91% of the total used in 1979. Industrial, Public Supply and Livestock accounted for the remaining 9% of total fresh surface water.

The 1979 per capita use, which is calculated by dividing the total water used in both public and domestic categories by the population, equals 170.84 GPCD District-wide. An increase of 22.83 GPCD over the 1978 Figure of 148.01 GPCD.

Comparing 1978 (Table 11) to 1979, an increase in ground water use of 461.14 MGD occurred while a decrease in surface water of 83.62 MGD occurred. Total fresh water use increased 377.52 MGD from 1978 to 1979. When comparing these two years, it must be considered that changes do not necessarily mean a demand change nor do they represent a trend. A simple change in data collection or calculating figures and the addition of new categories may be factors responsible for the changes.

TABLE 10 TOTAL WATER USE  
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT  
1979

WATER USE CATEGORY	WATER WITHDRAWN (MGD)						
	FRESH			SALINE			TOTAL
	GROUND	SURFACE	TOTAL	GROUND	SURFACE	TOTAL	
PUBLIC	245.39	11.88	257.27	0.08	0.0	0.08	257.35
DOMESTIC (1)	109.67	0.0	109.67	0.0	0.0	0.0	109.67
INSTITUTIONAL (1)	9.51	0.0	9.51	0.0	0.0	0.0	9.51
INDUSTRIAL (1)	140.25	23.14	163.39	0.0	62.71	62.71	226.10
IRRIGATION	660.44	306.57	967.01	0.0	0.0	0.0	967.01
LIVESTOCK	7.04	8.13	15.17	0.0	0.0	0.0	15.17
THERMOELECTRIC POWER GENERATION	4.71	149.33	154.04	0.0	2562.96	2562.96	2717.0
HEAT PUMP-A/C (2) LAWN IRRIGATION	185.45	0.0	185.45	0.0	0.0	0.0	185.45
<b>TOTAL</b>	<b>1362.46</b>	<b>499.05</b>	<b>1861.51</b>	<b>0.08</b>	<b>2625.67</b>	<b>2625.75</b>	<b>4487.26</b>

TOTAL POPULATION ( 2,149,974 )

PER CAPITA USE (GPCD) 170.84 (3)

1. SELF-SUPPLIED ONLY.
2. DATA FOR THIS CATEGORY WAS ONLY COLLECTED IN TWO COUNTIES, BREVARD AND VOLUSIA. THE TOTAL IS THAT OF THOSE TWO COUNTIES.
3. GPCD IS BASED ON DISTRICT PUBLIC AND DOMESTIC WATER USE.

TABLE II . TOTAL WATER USE  
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT  
1978

WATER USE CATEGORY	WATER WITHDRAWN (MGD)				
	GROUND	FRESH SURFACE	TOTAL	SALINE SURFACE	TOTAL
PUBLIC	224.38	9.46	233.84	0.0	233.84
DOMESTIC (1)	75.29	0.0	75.29	0.0	75.29
INDUSTRIAL (1)(2)	158.70	40.10	198.80	45.00	243.80
IRRIGATION	433.09	217.54	650.63	0.0	650.63
LIVESTOCK	7.77	8.87	16.64	0.0	16.64
THERMOELECTRIC POWER	2.09	306.70	308.79	2,748.00	3,056.79
TOTAL (3)	901.32	582.67	1,483.99	2,793.00	4,276.99

TOTAL POPULATION ( 2,088,600 )

TOTAL PER CAPITA USE (GPCD) 148.01 (4)

1. SELF-SUPPLIED ONLY.
2. THIS CATEGORY INCLUDES INSTITUTIONAL SELF-SUPPLIED
3. THE 1978 TOTALS DO NOT INCLUDE ANY FIGURES FOR GROUND WATER HEAT PUMP/LAWN IRRIGATION CATEGORY.
4. GPCD IS BASED ON DISTRICT PUBLIC AND DOMESTIC WATER USE ONLY.

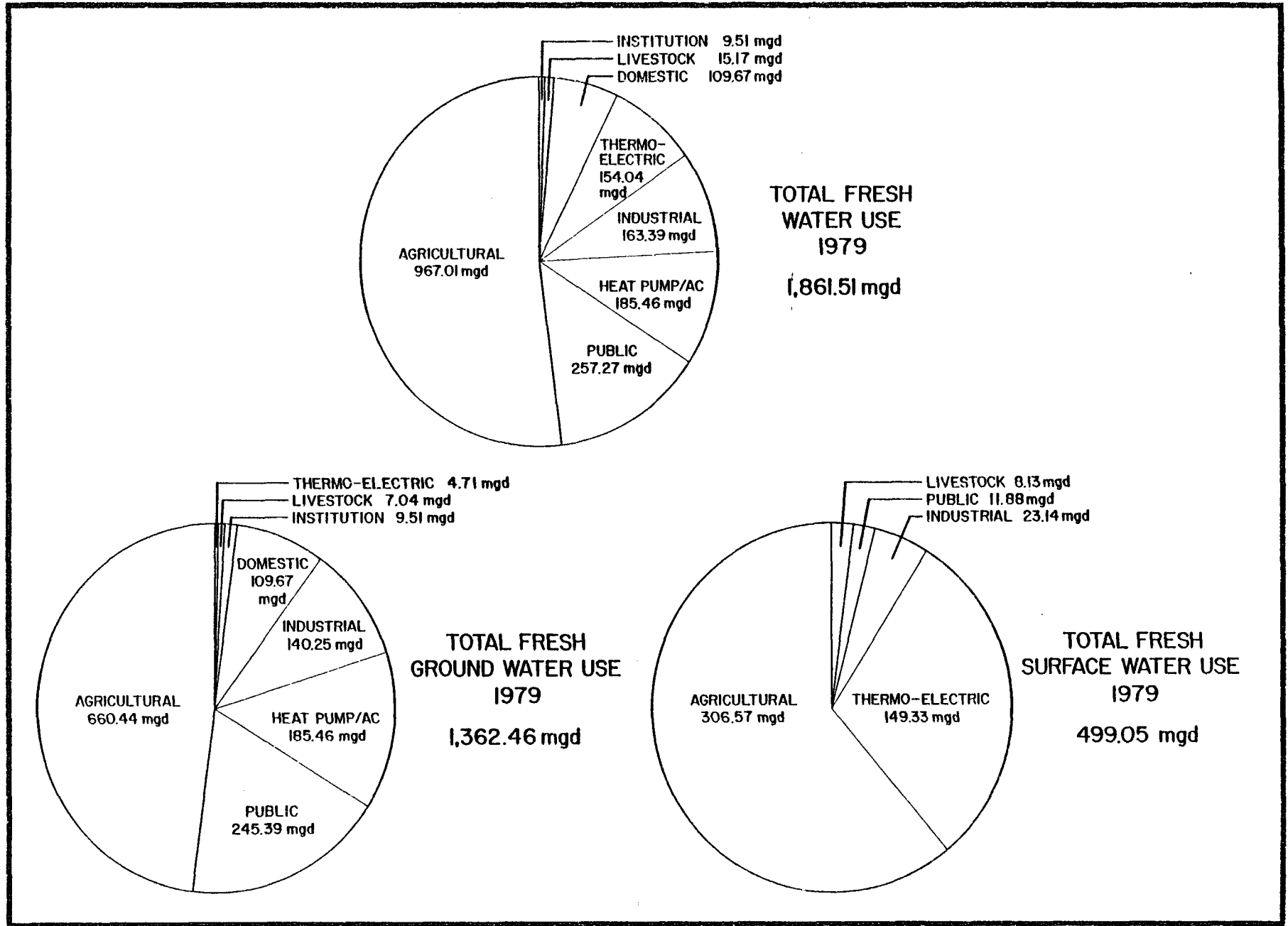


Figure 3.--Water Use By Source

Insert

Tab

III





### SECTION III

This section details water use by each county within the St. Johns River Water Management District. For each county a data sheet outlines important information. Each county section will also include the following 5 tables:

1. Total water use by category
2. Acres farmed and irrigated
3. Irrigated water use
4. Monthly Irrigated water use by crop type (See Table 12)
5. Livestock water use

The last county (Volusia) will be followed by a total water use by county summary. This will include a water use ranking for each county for the following water sources, fresh ground water, fresh surface water, total fresh, surface saline water use and combined total water use.

Table 12 Crops by Categories

<u>ROW CROPS</u>	<u>FRUIT CROPS</u>	<u>IMPROVED PASTURE</u>	<u>ORNAMENTALS</u>
Cabbage	Blueberries	Improved Pasture	Ferns
Cucumbers	Citrus	Sod	Shrubs
Carrots	Grapes	Turf Grass	
Potatoes	Peaches		
Corn	Pecans		
Watermelons	Misc. Fruits		
Misc. Vegetables			
Peanuts			
Rice			
Sorghum			
Soybeans			
Tobacco			
Misc. Grains			

ALACHUA COUNTY

Total Population Within District	110,700
Population served by public utility	105,000
Domestic self supplied population	5,700
County GPCD	143.23

Total Water Use in MGD

Ground Fresh	25.73
Surface Fresh	2.17
Ground Saline	0.0
Surface Saline	0.0
Total	<hr/> 27.9

**ALACHUA**

TABLE 13 TOTAL WATER USE

ALACHUA COUNTY (1)

1979

WATER USE CATEGORY	WATER WITHDRAWN (MGD)							
	FRESH			SALINE			TOTAL	TOTAL
	GROUND	SURFACE	TOTAL	GROUND	SURFACE	TOTAL		
PUBLIC	15.04	0.0	15.04	0.0	0.0	0.0	15.04	
DOMESTIC (2)	0.82	0.0	0.82	0.0	0.0	0.0	0.82	
INSTITUTIONAL (2)	1.16	0.0	1.16	0.0	0.0	0.0	1.16	
INDUSTRIAL (2)	0.07	0.0	0.07	0.0	0.0	0.0	0.07	
IRRIGATION	7.57	1.81	9.38	0.0	0.0	0.0	9.38	
LIVESTOCK	0.36	0.36	0.72	0.0	0.0	0.0	0.72	
THERMOELECTRIC POWER GENERATION	0.71	0.0	0.71	0.0	0.0	0.0	0.71	
HEAT PUMP-A/C (3) LAWN IRRIGATION	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	25.73	2.17	27.9	0.0	0.0	0.0	27.9	

TOTAL POPULATION ( 110,700 )

PER CAPITA USE (GPCD) 143.23 (4)

1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.
2. SELF-SUPPLIED ONLY.
3. DATA WAS NOT COLLECTED FOR THIS CATEGORY IN 1979.
4. GPCD IS BASED ON COUNTY PUBLIC AND DOMESTIC WATER USE ONLY.

TABLE 14 ACRES FARMED AND IRRIGATED  
ALACHUA COUNTY  
1979

TOTAL AREA IN THE COUNTY 308,380 ACRES

CROPE	TOTAL ACRES	IRRIGATED ACRES	IRRIGATION METHODS USED (ACRES)			
			SPRINKLER	TILE SEEPAGE	FLOOD AND SEEPAGE	LOW PRESSURE- LOW VOLUME
CABBAGE	0	0	0	0	0	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	0	0	0	0	0	0
POTATOES	0	0	0	0	0	0
SWEET CORN	0	0	0	0	0	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	2,626	2,626	2,626	0	0	0
BLUEBERRIES	25	25	13	0	0	12
CITRUS	200	100	100	0	0	0
GRAPES	20	20	0	0	0	20
PEACHES	250	150	100	0	0	50
PEANUTS	200	100	100	0	0	0
PECANS	3,000	0	0	0	0	0
WATERMELONS	1,250	813	813	0	0	0
MISC. FRUITS	15	15	15	0	0	0
FIELD CORN	7,000	900	900	0	0	0
SORGHUM	0	0	0	0	0	0
SOYBEANS	4,000	2,025	2,025	0	0	0
TOBACCO	100	80	80	0	0	0
MISC. GRAINS	10,500	1,050	1,050	0	0	0
FERNS	0	0	0	0	0	0
FLOWERS & FOLIAGE	225	225	203	0	0	22
IMPROVED PASTURE	57,000	1,200	1,200	0	0	0
SHRUBS	0	0	0	0	0	0
SOD	500	0	0	0	0	0
TURF GRASS	405	268	268	0	0	0
<hr/>						
TOTAL	87,316	9,597	9,493	0	0	104

1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.

TABLE 15 IRRIGATION WATER USE

ALACHUA COUNTY

1979

CROP	APPLICATION RATES			WATER WITHDRAWN				
	(ACRE INCHES/YR)			TOTAL	(MGD)			
	SPRINKLER	SEEPAGE	LOW PRESSURE/VOL	AC. FT.	GROUND	SURFACE	RE-USED	TOTAL
CABBAGE	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CARROTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CUCUMBERS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
POTATOES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SWEET CORN	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
WATERCRESS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. VEGETABLES	7.02	0.0	0.0	1536	1.1	0.27	0.0	1.37
BLUEBERRIES	8.0	0.0	6.0	6	0.01	0.0	0.0	0.01
CITRUS	16.53	0.0	0.0	138	0.09	0.03	0.0	0.12
GRAPES	0.0	0.0	5.32	9	0.01	0.0	0.0	0.01
PEACHES	31.46	0.0	3.58	379	0.28	0.06	0.0	0.34
PEANUTS	7.5	0.0	0.0	63	0.05	0.01	0.0	0.06
PECANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
WATERMELONS	6.26	0.0	0.0	424	0.28	0.1	0.0	0.38
MISC. FRUIT	18.0	0.0	0.0	23	0.02	0.0	0.0	0.02
FIELD CORN	18.84	0.0	0.0	1413	1.0	0.26	0.0	1.26
SORGHUM	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SOYBEANS	7.45	0.0	0.0	1257	0.9	0.22	0.0	1.12
TOBACCO	4.0	0.0	0.0	27	0.01	0.01	0.0	0.02
MISC. GRAINS	14.08	0.0	0.0	1232	0.88	0.22	0.0	1.1
FERNS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FLOWERS & FOLIAGE	100.0	0.0	85.0	1848	1.32	0.33	0.0	1.65
IMPROVED PASTURE	17.28	0.0	0.0	1728	1.24	0.3	0.0	1.54
SHRUBS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SOD	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
TURF GRASS	19.15	0.0	0.0	428	0.38	0.0	0.0	0.38
TOTAL	275.57	0.0	99.9	10511	7.57	1.81	0.0	9.38

35

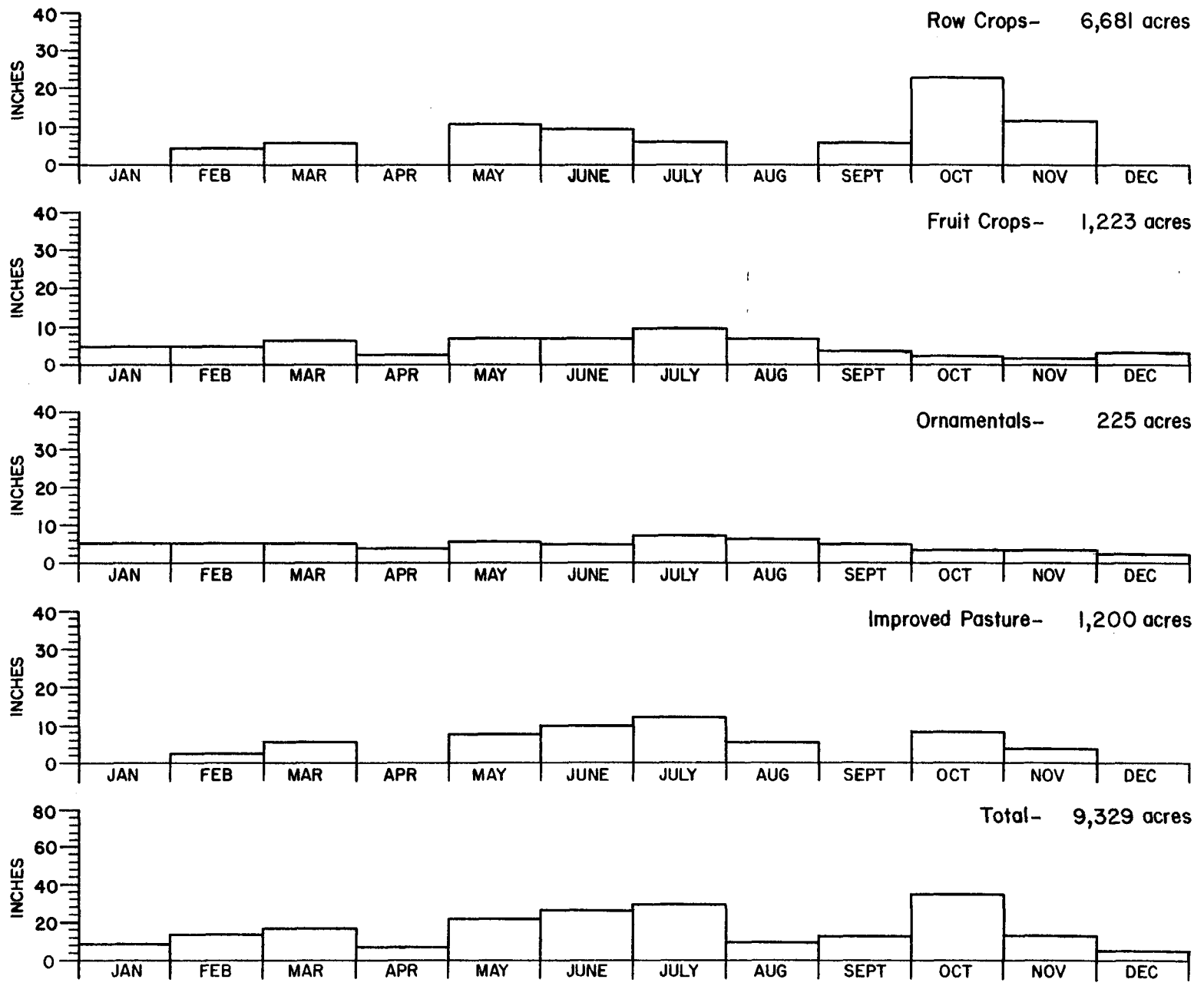


Figure 4 .-- Monthly Irrigation Water Use by crop type in Alachua County for 1979

TABLE 16 LIVESTOCK WATER USE

ALACHUA

1979

LIVESTOCK	USE PER ANIMAL (GPD)	NUMBER OF ANIMALS	WATER WITHDRAWN (MGD)		TOTAL
			GROUND	SURFACE	
BEEF CATTLE	12	33,000	0.19	0.20	0.39
CHICKENS	0.10	608,000	0.03	0.03	0.06
DAIRY CATTLE	150	1,415	0.11	0.10	0.21
DOGS	0.10	50	0.0	0.0	0.0
GOATS	2	1,900	0.0	0.0	0.0
HOGS	2	11,250	0.01	0.01	0.02
HORSES	12	3,000	0.02	0.02	0.04
RABBITS	0.05	0	0.0	0.0	0.0
SHEEP	2	1,710	0.0	0.0	0.0
TURKEYS	1	0	0.0	0.0	0.0
TOTAL			0.36	0.36	0.72

NOTE: A VALUE OF 0.0 MGD IS SHOWN IN THE TABLE FOR LIVESTOCK CATEGORIES WITH A WITHDRAWAL OF LESS THAN 0.01 MGD.

1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.



BAKER COUNTY

Total Population Within District	12,744
Population served by public utility	4,000
Domestic self supplied population	8,744
County GPCD	152.50

Total Water Use in MGD

Ground Fresh	3.4
Surface Fresh	0.57
Ground Saline	0.0
Surface Saline	0.0
Total	<u>3.99</u>

**BAKER**

TABLE 17 TOTAL WATER USE

BAKER COUNTY

1979

WATER USE CATEGORY	WATER WITHDRAWN (MGD)							
	FRESH			SALINE			TOTAL	TOTAL
	GROUND	SURFACE	TOTAL	GROUND	SURFACE	TOTAL		
PUBLIC	0.61	0.0	0.61	0.0	0.0	0.0	0.61	
DOMESTIC (1)	1.33	0.0	1.33	0.0	0.0	0.0	1.33	
INSTITUTIONAL (1)	0.29	0.0	0.29	0.0	0.0	0.0	0.29	
INDUSTRIAL (1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
IRRIGATION	0.76	0.0	0.76	0.0	0.0	0.0	0.76	
LIVESTOCK	0.41	0.59	1.0	0.0	0.0	0.0	1.0	
THERMOELECTRIC POWER GENERATION	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
HEAT PUMP-A/C (2) LAWN IRRIGATION	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	3.4	0.59	3.99	0.0	0.0	0.0	3.99	

TOTAL POPULATION ( 12,744 )

PER CAPITA USE (GPCD) 152.5 (3)

1. SELF-SUPPLIED ONLY.
2. DATA WAS NOT COLLECTED FOR THIS CATEGORY IN 1979.
3. GPCD IS BASED ON COUNTY PUBLIC AND DOMESTIC WATER USE.

TABLE 18 ACRES FARMED AND IRRIGATED

BAKER COUNTY

1979

TOTAL AREA IN THE COUNTY 342,760 ACRES

CROPE	TOTAL ACRES	IRRIGATED ACRES	IRRIGATION METHODS USED (ACRES)			
			SPRINKLER	TILE SEEPAGE	FLOOD AND SEEPAGE	LOW PRESSURE- LOW VOLUME
CABBAGE	0	0	0	0	0	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	0	0	0	0	0	0
POTATOES	0	0	0	0	0	0
SWEET CORN	0	0	0	0	0	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	522	49	49	0	0	0
BLUEBERRIES	0	0	0	0	0	0
CITRUS	0	0	0	0	0	0
GRAPES	0	0	0	0	0	0
PEACHES	0	0	0	0	0	0
PEANUTS	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
WATERMELONS	0	0	0	0	0	0
MISC. FRUITS	0	0	0	0	0	0
FIELD CORN	4,050	0	0	0	0	0
SORGHUM	0	0	0	0	0	0
SOYBEANS	0	0	0	0	0	0
TOBACCO	166	67	67	0	0	0
MISC. GRAINS	0	0	0	0	0	0
FERNS	0	0	0	0	0	0
FLOWERS & FOLIAGE	1,200	153	153	0	0	0
IMPROVED PASTURE	3,600	0	0	0	0	0
SHRUBS	0	0	0	0	0	0
SOD	0	0	0	0	0	0
TURF GRASS	125	100	100	0	0	0
<hr/>						
TOTAL	9,663	369	369	0	0	0

1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.

TABLE 19 IRRIGATION WATER USE

BAKER COUNTY

1979

CROP	APPLICATION RATES			WATER WITHDRAWN				
	(ACRE INCHES/YR)			TOTAL	(MGD)			TOTAL
	SPRINKLER	SEEPAGE	LOW PRESSURE/VOL	AC. FT.	GROUND	SURFACE	RE-USED	
CABBAGE	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CARROTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CUCUMBERS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
POTATOES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SWEET CORN	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
WATERCRESS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. VEGETABLES	6.49	0.0	0.0	27	0.02	0.0	0.0	0.02
BLUEBERRIES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CITRUS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
GRAPES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PEACHES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PEANUTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PECANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
WATERMELONS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. FRUIT	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FIELD CORN	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SORGHUM	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SOYBEANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
TOBACCO	8.0	0.0	0.0	45	0.04	0.0	0.0	0.04
MISC. GRAINS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FERNS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FLOWERS & FOLIAGE	60.0	0.0	0.0	765	0.68	0.0	0.0	0.68
IMPROVED PASTURE	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SHRUBS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SOD	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
TURF GRASS	2.32	0.0	0.0	19	0.02	0.0	0.0	0.02
TOTAL	76.81	0.0	0.0	856	0.76	0.0	0.0	0.76

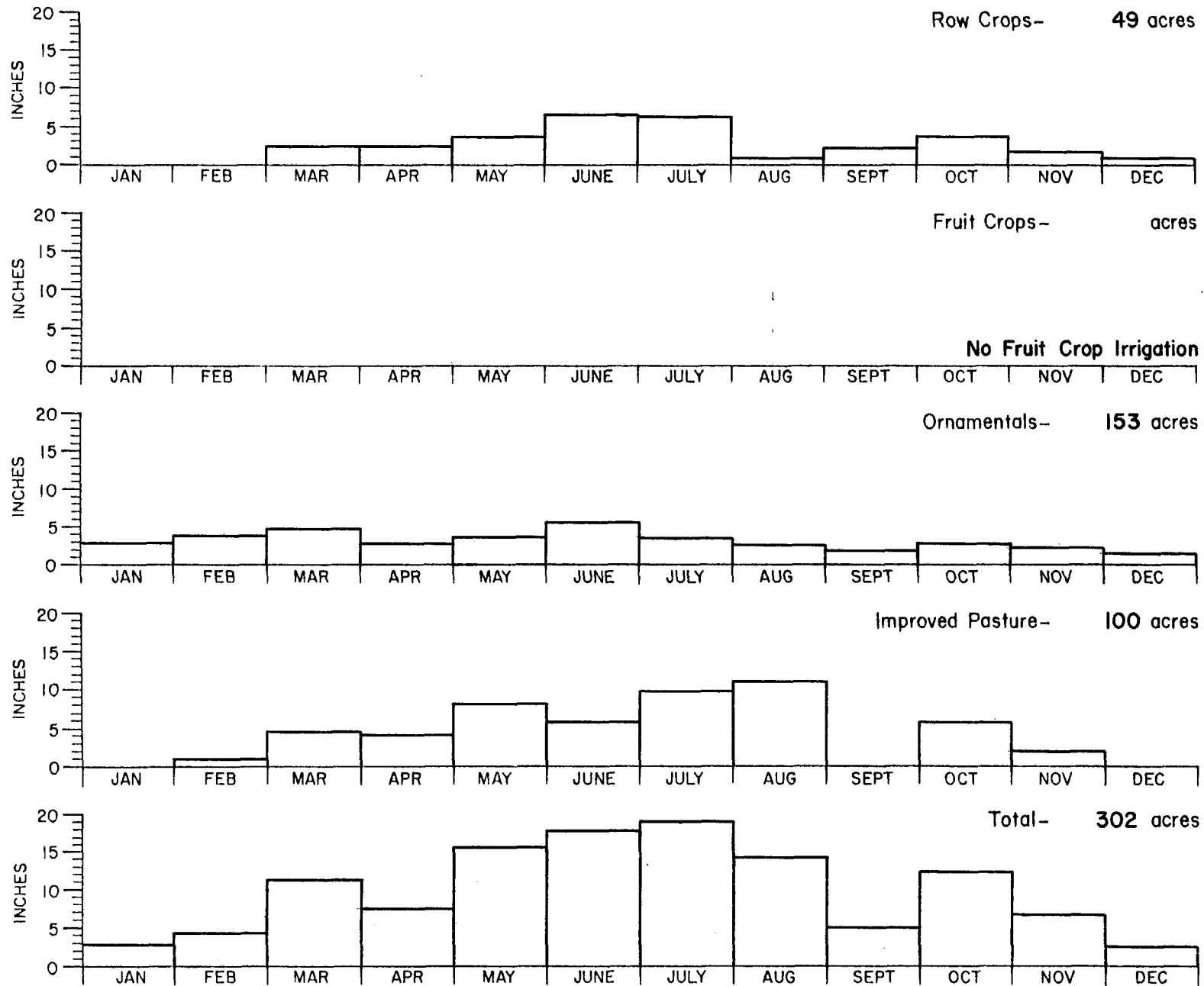


Figure 5.-- Monthly Irrigation Water Use by crop type in Baker County for 1979

TABLE 20 LIVESTOCK WATER USE

BAKER

1979

LIVESTOCK	USE PER ANIMAL (GPD)	NUMBER OF ANIMALS	WATER WITHDRAWN (MGD)		
			GROUND	SURFACE	TOTAL
BEEF CATTLE	12	5,700	0.03	0.04	0.07
CHICKENS	0.1	6,800,000	0.28	0.40	0.68
DAIRY CATTLE	150	1,500	0.10	0.13	0.23
DOGS	0.10	0	0.0	0.0	0.0
GOATS	2	95	0.0	0.0	0.0
HOGS	2	2,850	0.0	0.01	0.01
HORSES	12	475	0.0	0.01	0.01
RABBITS	0.05	0	0.0	0.0	0.0
SHEEP	2	0	0.0	0.0	0.0
TURKEYS	1	0	0.0	0.0	0.0
TOTAL			0.41	0.59	1.00

NOTE: A VALUE OF 0.0 MGD IS SHOWN IN THE TABLE FOR LIVESTOCK CATEGORIES WITH A WITHDRAWAL OF LESS THAN 0.01 MGD.

1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.

BRADFORD COUNTY

Total Population Within District	50
Population served by public utility	0
Domestic self supplied population	50
County GPCD	

Total Water Use in MGD

Ground Fresh	0.0	(1)
Surface Fresh	0.0	
Ground Saline	0.0	
Surface Saline	0.0	
Total	<u>0.0</u>	(1)

(1) Has A Value Of Less Than 0.01

**BRADFORD**

TABLE 21 TOTAL WATER USE

BRADFORD COUNTY (1)

1979

WATER USE CATEGORY	WATER WITHDRAWN (MGD)							
	FRESH			SALINE			TOTAL	TOTAL
	GROUND	SURFACE	TOTAL	GROUND	SURFACE	TOTAL		
PUBLIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DOMESTIC (2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INSTITUTIONAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDUSTRIAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRRIGATION	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LIVESTOCK	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THERMOELECTRIC POWER GENERATION	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HEAT PUMP-A/C (3) LAWN IRRIGATION	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL (2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TOTAL POPULATION ( 50 )

PER CAPITA USE (GPCD) 170.84 (4)

1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.
2. HAS A VALUE OF LESS THAN 0.00 MGD .
3. DATA WAS NOT COLLECTED FOR THIS CATEGORY IN 1979.
4. GPCD IS BASED ON DISTRICT AVERAGE CPCD.

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BREVARD COUNTY

Total Population Within District	275,779
Population served by public utility	252,612
Domestic self supplied population	23,167
County GPCD	142.23

Total Water Use in MGD

Ground Fresh	438.84
Surface Fresh	44.05
Ground Saline	0.0
Surface Saline	1281.15
Total	<u>1765.04</u>

**BREVARD**

TABLE 22 TOTAL WATER USE

BREVARD COUNTY

1979

WATER USE CATEGORY	WATER WITHDRAWN (MGD)							
	FRESH			SALINE			TOTAL	
	GROUND	SURFACE	TOTAL	GROUND	SURFACE	TOTAL	TOTAL	
PUBLIC	6.54	11.88	18.42	0.0	0.0	0.0	18.42	
DOMESTIC (1)	3.3	0.0	3.3	0.0	0.0	0.0	3.3	
INSTITUTIONAL (1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
INDUSTRIAL (1)	0.23	0.0	0.23	0.0	0.0	0.0	0.23	
IRRIGATION	248.7	31.8	280.5	0.0	0.0	0.0	280.5	
LIVESTOCK	0.52	0.37	0.89	0.0	0.0	0.0	0.89	
THERMOELECTRIC POWER GENERATION	0.26	0.0	0.26	0.0	1282.15	1282.15	1282.41	
HEAT PUMP-A/C (2) LAWN IRRIGATION	179.29	0.0	179.29	0.0	0.0	0.0	179.29	
<b>TOTAL</b>	<b>438.84</b>	<b>44.05</b>	<b>482.89</b>	<b>0.0</b>	<b>1282.15</b>	<b>1282.15</b>	<b>1765.04</b>	

TOTAL POPULATION ( 275,779 )

PER CAPITA USE (GPCD) 142.25 (3)

1. SELF-SUPPLIED ONLY.
2. USES HEAT PUMPS IN DEEP AQUIFER (OVER 100 FT DEEP).
3. GPCD IS BASED ON COUNTY PUBLIC AND DOMESTIC WATER USE.

TABLE 23 ACRES FARMED AND IRRIGATED

BREVARD COUNTY

1979

TOTAL AREA IN THE COUNTY 841,630 ACRES

CROP	TOTAL ACRES	IRRIGATED ACRES	IRRIGATION METHODS USED (ACRES)			
			SPRINKLER	TILE SEEPAGE	FLOOD AND SEEPAGE	LOW PRESSURE- LOW VOLUME
CABBAGE	0	0	0	0	0	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	0	0	0	0	0	0
POTATOES	0	0	0	0	0	0
SWEET CORN	0	0	0	0	0	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	200	150	50	0	100	0
BLUEBERRIES	0	0	0	0	0	0
CITRUS	17,599	17,599	8,448	0	8,271	880
GRAPES	0	0	0	0	0	0
PEACHES	0	0	0	0	0	0
PEANUTS	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
WATERMELONS	60	30	30	0	0	0
MISC. FRUITS	0	0	0	0	0	0
FIELD CORN	60	0	0	0	0	0
SORGHUM	0	0	0	0	0	0
SOYBEANS	0	0	0	0	0	0
TOBACCO	0	0	0	0	0	0
MISC. GRAINS	0	0	0	0	0	0
FERNS	0	0	0	0	0	0
FLOWERS & FOLIAGE	10	10	10	0	0	0
IMPROVED PASTURE	121,700	63,336	0	0	63,336	0
SHRUBS	190	190	190	0	0	0
SOD	800	800	800	0	0	0
TURF GRASS	1,527	1,105	1,105	0	0	0
<b>TOTAL</b>	<b>142,146</b>	<b>83,220</b>	<b>10,633</b>	<b>0</b>	<b>71,707</b>	<b>880</b>

TABLE 24 IRRIGATION WATER USE

BREVARD COUNTY

1979

CROP	APPLICATION RATES			WATER WITHDRAWN				
	(ACRE INCHES/YR)			TOTAL AC FT	(MGD)			TOTAL
	SPRINKLER	SEEPAGE	LOW PRESSURE/VOL		GROUND	SURFACE	RE-USED	
CABBAGE	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CARROTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CUCUMBERS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
POTATOES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SWEET CORN	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
WATERCRESS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. VEGETABLES	13.06	20.89	0.0	228	0.11	0.9	0.0	1.01
BLUEBERRIES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CITRUS	21.19	33.9	18.83	39642	32.39	3.0	0.0	35.39
GRAPES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PEACHES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PEANUTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PECANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
WATERMELONS	11.69	0.0	0.0	29	0.02	0.01	0.0	0.03
MISC. FRUIT	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FIELD CORN	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SORGHUM	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SOYBEANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
TOBACCO	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. GRAINS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FERNS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FLOWERS & FOLIAGE	61.0	0.0	0.0	51	0.05	0.0	0.0	0.05
IMPROVED PASTURE	0.0	49.68	0.0	262211	210.67	23.41	0.0	234.08
SHRUBS	42.61	0.0	0.0	675	0.6	0.0	0.0	0.6
SOD	37.3	0.0	0.0	2487	2.22	0.0	0.0	2.22
TURF GRASS	109.06	0.0	0.0	10042	2.64	4.48	0.88	7.12
TOTAL	295.91	104.47	18.83	315365	248.7	31.8	0.88	280.5



Figure 6.-- Monthly Irrigation Water Use by crop type in Brevard County for 1979

TABLE 25 LIVESTOCK WATER USE

BREVARD

1979

LIVESTOCK	USE PER ANIMAL (GPD)	NUMBER OF ANIMALS	WATER WITHDRAWN (MGD)		TOTAL
			GROUND	SURFACE	
BEEF CATTLE	12	65,000	0.45	0.33	0.78
CHICKENS	0.10	20,000	0.0	0.0	0.0
DAIRY CATTLE	150	410	0.04	0.02	0.06
DOGS	0.10	0	0.0	0.0	0.0
GOATS	2	200	0.0	0.0	0.0
HOGS	2	6,300	0.01	0.0	0.01
HORSES	12	3,400	0.02	0.02	0.04
RABBITS	0.05	400	0.0	0.0	0.0
SHEEP	2	0	0.0	0.0	0.0
TURKEYS	1	100	0.0	0.0	0.0
TOTAL			0.52	0.37	0.89

NOTE: A VALUE OF 0.0 MGD IS SHOWN IN THE TABLE FOR LIVESTOCK CATEGORIES WITH A WITHDRAWAL OF LESS THAN 0.01 MGD.

CLAY COUNTY

Total Population Within District	56,772
Population served by public utility	38,490
Domestic self supplied population	18,282
County GPCD	136.13

Total Water Use in MGD

Ground Fresh	16.11
Surface Fresh	1.27
Ground Saline	0.0
Surface Saline	0.0
Total	<u>17.38</u>

CLAY

TABLE 26 TOTAL WATER USE

CLAY COUNTY

1979

----- WATER WITHDRAWN (MGD) -----

WATER USE CATEGORY	FRESH			SALINE			TOTAL
	GROUND	SURFACE	TOTAL	GROUND	SURFACE	TOTAL	
PUBLIC	5.24	0.0	5.24	0.0	0.0	0.0	5.24
DOMESTIC (1)	2.49	0.0	2.49	0.0	0.0	0.0	2.49
INSTITUTIONAL (1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDUSTRIAL (1)	5.14	0.0	5.14	0.0	0.0	0.0	5.14
IRRIGATION	1.98	0.0	1.98	0.0	0.0	0.0	1.98
LIVESTOCK	1.26	1.27	2.53	0.0	0.0	0.0	2.53
THERMOELECTRIC POWER GENERATION	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HEAT PUMP-A/C (2) LAWN IRRIGATION	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-----							
TOTAL	16.11	1.27	17.38	0.0	0.0	0.0	17.38

TOTAL POPULATION ( 56,772 )

PER CAPITA USE (GPCD) 136.13 (3)

1. SELF-SUPPLIED ONLY.
2. DATA WAS NOT COLLECTED FOR THIS CATEGORY IN 1979.
3. GPCD IS BASED ON COUNTY PUBLIC AND DOMESTIC WATER USE.



TABLE 27 ACRES FARMED AND IRRIGATED

CLAY COUNTY

1979

TOTAL AREA IN THE COUNTY 411,590 ACRES

CROP	TOTAL ACRES	IRRIGATED ACRES	IRRIGATION METHODS USED (ACRES)			
			SPRINKLER	TILE SEEPAGE	FLOOD AND SEEPAGE	LOW PRESSURE- LOW VOLUME
CABBAGE	0	0	0	0	0	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	0	0	0	0	0	0
POTATOES	0	0	0	0	0	0
SWEET CORN	0	0	0	0	0	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	200	100	100	0	0	0
BLUEBERRIES	0	0	0	0	0	0
CITRUS	0	0	0	0	0	0
GRAPES	0	0	0	0	0	0
PEACHES	0	0	0	0	0	0
PEANUTS	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
WATERMELONS	0	0	0	0	0	0
MISC. FRUITS	0	0	0	0	0	0
FIELD CORN	0	0	0	0	0	0
SORGHUM	0	0	0	0	0	0
SOYBEANS	0	0	0	0	0	0
TOBACCO	0	0	0	0	0	0
MISC. GRAINS	2,800	0	0	0	0	0
FERNS	0	0	0	0	0	0
FLOWERS & FOLIAGE	50	50	50	0	0	0
IMPROVED PASTURE	40,000	390	16	0	374	0
SHRUBS	0	0	0	0	0	0
SOD	0	0	0	0	0	0
TURF GRASS	145	80	80	0	0	0
<b>TOTAL</b>	<b>43,195</b>	<b>620</b>	<b>246</b>	<b>0</b>	<b>374</b>	<b>0</b>

TABLE 28 IRRIGATION WATER USE

CLAY COUNTY

1979

CROP	APPLICATION RATES			WATER WITHDRAWN				
	(ACRE INCHES/YR)			TOTAL	(MGD)			TOTAL
	SPRINKLER	SEEPAGE	LOW PRESSURE/VOL	AC ET	GROUND	SURFACE	RE-USED	
CABBAGE	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CARROTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CUCUMBERS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
POTATOES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SWEET CORN	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
WATERCRESS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. VEGETABLES	6.48	0.0	0.0	54	0.05	0.0	0.0	0.05
BLUEBERRIES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CITRUS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
GRAPES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PEACHES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PEANUTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PECANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
WATERMELONS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. FRUIT	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FIELD CORN	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SORGHUM	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SOYBEANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
TOBACCO	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. GRAINS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FERNS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FLOWERS & FOLIAGE	62.3	0.0	0.0	260	0.23	0.0	0.0	0.23
IMPROVED PASTURE	35.7	51.93	0.0	1810	1.62	0.0	0.0	1.62
SHRUBS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SOD	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
TURF GRASS	13.49	0.0	0.0	90	0.08	0.0	0.0	0.08
<b>TOTAL</b>	<b>117.97</b>	<b>51.93</b>	<b>0.0</b>	<b>2214</b>	<b>1.98</b>	<b>0.0</b>	<b>0.0</b>	<b>1.98</b>

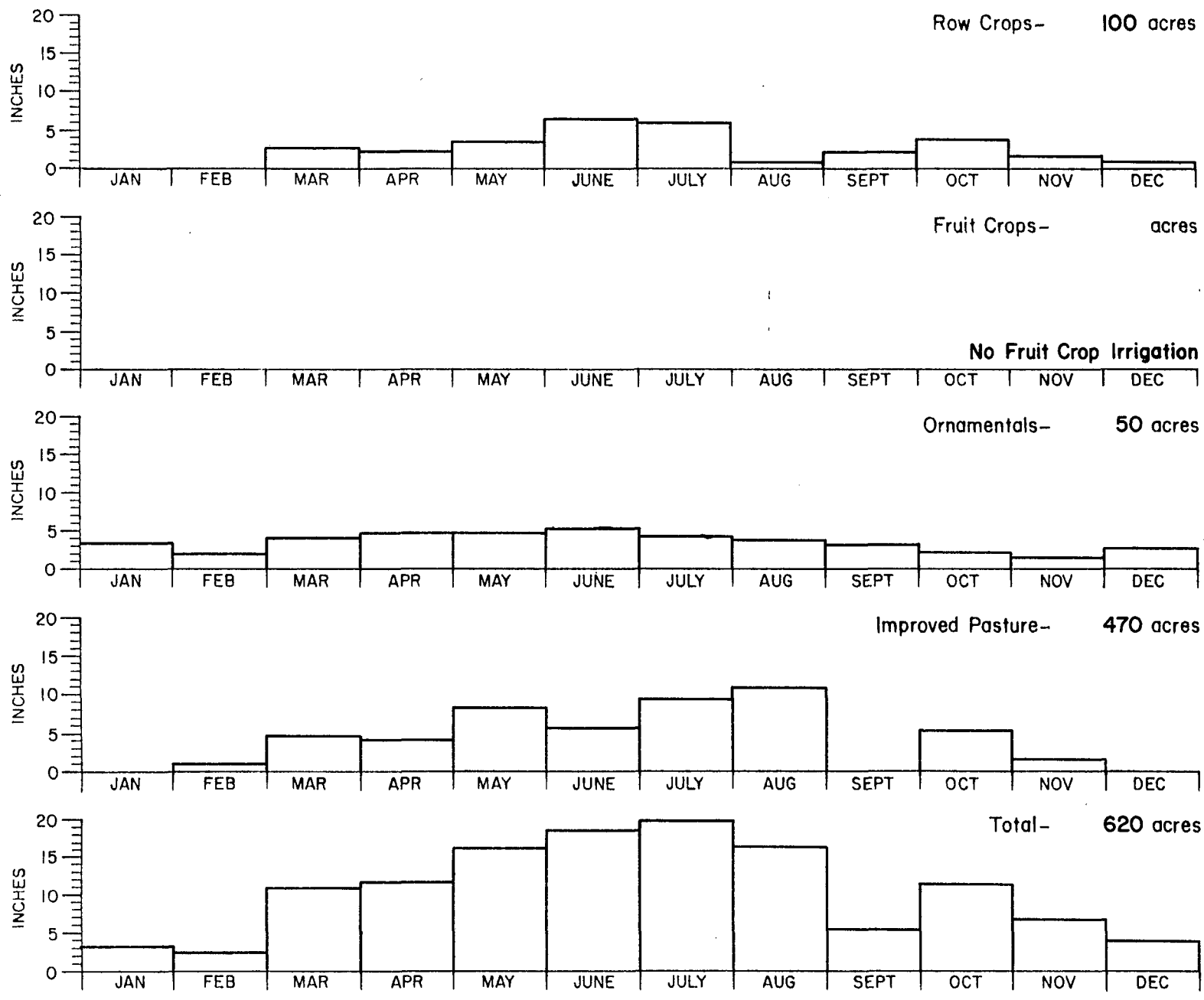


Figure 7.-- Monthly Irrigation Water Use by crop type in Clay County for 1979

TABLE 29 LIVESTOCK WATER USE

CLAY

1979

LIVESTOCK	USE PER ANIMAL (GPD)	NUMBER OF ANIMALS	WATER WITHDRAWN (MGD)		TOTAL
			GROUND	SURFACE	
BEEF CATTLE	12	12,000	0.07	0.07	0.14
CHICKENS	0.10	300,000	0.01	0.02	0.03
DAIRY CATTLE	150	15,500	1.16	1.16	2.32
DOGS	0.10	0	0.0	0.0	0.0
GOATS	2	0	0.0	0.0	0.0
HOGS	2	3,000	0.0	0.0	0.0
HORSES	12	3,000	0.02	0.02	0.04
RABBITS	0.05	0	0.0	0.0	0.0
SHEEP	2	0	0.0	0.0	0.0
TURKEYS	1	0	0.0	0.0	0.0
TOTAL			1.26	1.27	2.53

NOTE: A VALUE OF 0.0 MGD IS SHOWN IN THE TABLE FOR LIVESTOCK CATEGORIES WITH A WITHDRAWAL OF LESS THAN 0.01 MGD.

DUVAL COUNTY

Total Population Within District	566,420
Population served by public utility	328,346
Domestic self supplied population	238,074
County GPCD	193.91

Total Water Use in MGD

Ground Fresh	162.66
Surface Fresh	2.25
Ground Saline	0.0
Surface Saline	1285.71
Total	<u>1450.62</u>

**DUVAL**

TABLE 30 TOTAL WATER USE

DUVAL COUNTY

1979

WATER USE CATEGORY	WATER WITHDRAWN (MGD)						TOTAL
	GROUND	FRESH SURFACE	TOTAL	GROUND	SALINE SURFACE	TOTAL	
PUBLIC	63.67	0.0	63.67	0.0	0.0	0.0	63.67
DOMESTIC (1)	46.17	0.0	46.17	0.0	0.0	0.0	46.17
INSTITUTIONAL (1)	7.09	0.0	7.09	0.0	0.0	0.0	7.09
INDUSTRIAL (1)	35.8	0.0	35.8	0.0	60.71	60.71	96.51
IRRIGATION	6.9	0.69	7.59	0.0	0.0	0.0	7.59
LIVESTOCK	0.38	1.56	1.94	0.0	0.0	0.0	1.94
THERMOELECTRIC POWER GENERATION	2.65	0.0	2.65	0.0	1225.0	1225.0	1227.65
HEAT PUMP-A/C (2) LAWN IRRIGATION	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>TOTAL</b>	<b>162.66</b>	<b>2.25</b>	<b>163.91</b>	<b>0.0</b>	<b>1285.71</b>	<b>1285.71</b>	<b>1449.62</b>

TOTAL POPULATION ( 566,420 )

PER CAPITA USE (GPCD) 193.91 (3)

1. SELF-SUPPLIED ONLY.
2. DATA WAS NOT COLLECTED FOR THIS CATEGORY IN 1979.
3. GPCD IS BASED ON COUNTY PUBLIC AND DOMESTIC WATER USE.

TABLE 31 ACRES FARMED AND IRRIGATED

DUVAL COUNTY

1979

TOTAL AREA IN THE COUNTY 529,620 ACRES

CROPE	TOTAL ACRES	IRRIGATED ACRES	IRRIGATION METHODS USED (ACRES)			
			SPRINKLER	TILE SEEPAGE	FLOOD AND SEEPAGE	LOW PRESSURE- LOW VOLUME
CABBAGE	0	0	0	0	0	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	0	0	0	0	0	0
POTATOES	0	0	0	0	0	0
SWEET CORN	0	0	0	0	0	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	200	4	4	0	0	0
BLUEBERRIES	20	6	6	0	0	0
CITRUS	0	0	0	0	0	0
GRAPES	10	5	5	0	0	0
PEACHES	0	0	0	0	0	0
PEANUTS	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
WATERMELONS	0	0	0	0	0	0
MISC. FRUITS	0	0	0	0	0	0
FIELD CORN	200	0	0	0	0	0
SORGHUM	0	0	0	0	0	0
SOYBEANS	0	0	0	0	0	0
TOBACCO	0	0	0	0	0	0
MISC. GRAINS	0	0	0	0	0	0
FERNS	0	0	0	0	0	0
FLOWERS & FOLIAGE	7	7	0	0	0	7
IMPROVED PASTURE	12,000	1,000	500	0	500	0
SHRUBS	0	0	0	0	0	0
SOD	0	0	0	0	0	0
TURF GRASS	2,992	1,413	1,413	0	0	0
<b>TOTAL</b>	<b>15,429</b>	<b>2,435</b>	<b>1,928</b>	<b>0</b>	<b>500</b>	<b>7</b>

TABLE 32 IRRIGATION WATER USE

DUVAL COUNTY

1979

CROP	APPLICATION RATES			TOTAL AC. FT.	WATER WITHDRAWN				
	SPRINKLER	SEEPAGE	LOW PRESSURE/VOL		GROUND	SURFACE	RE-USED	TOTAL	
	(ACRE INCHES/YR)				(MGD)				
CABBAGE	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
CARROTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
CUCUMBERS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
POTATOES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
SWEET CORN	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
WATERCRESS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
MISC. VEGETABLES	7.41	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0
BLUEBERRIES	9.23	0.0	0.0	5	0.0	0.0	0.0	0.0	0.0
CITRUS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
GRAPES	4.3	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0
PEACHES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
PEANUTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
PECANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
WATERMELONS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
MISC. FRUIT	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
FIELD CORN	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
SORGHUM	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
SOYBEANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
TOBACCO	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
MISC. GRAINS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
FERNS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
FLOWERS & FOLIAGE	0.0	0.0	40.0	23	0.02	0.0	0.0	0.0	0.02
IMPROVED PASTURE	25.86	41.37	0.0	2802	2.15	0.35	0.0	0.0	2.5
SHRUBS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
SOD	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
TURF GRASS	48.26	0.0	0.0	5683	4.73	0.34	0.0	0.0	5.07
<b>TOTAL</b>	<b>95.06</b>	<b>41.37</b>	<b>40.0</b>	<b>8518</b>	<b>6.9</b>	<b>0.69</b>	<b>0.0</b>	<b>0.0</b>	<b>7.59</b>

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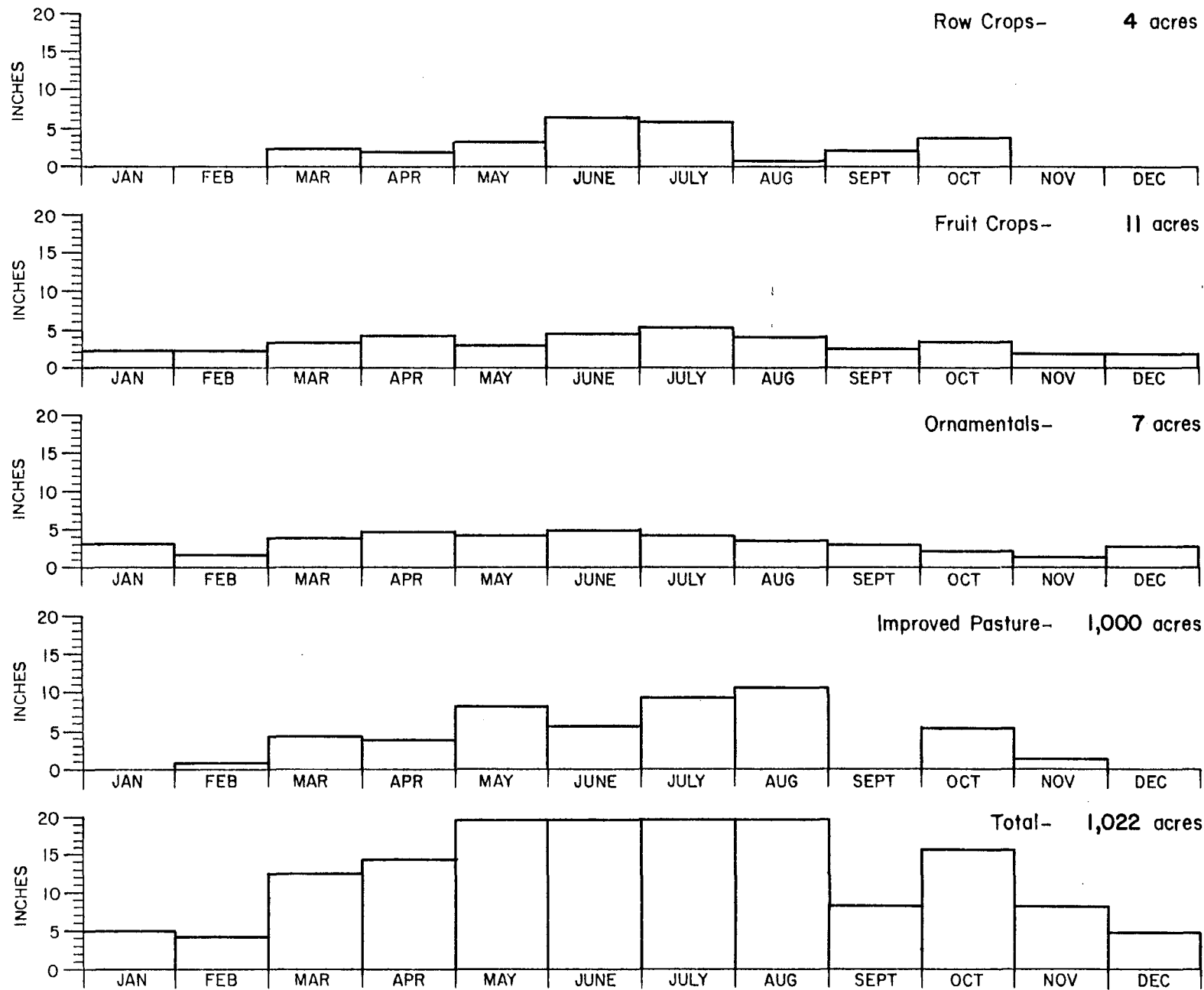


Figure 8.-- Monthly Irrigation Water Use by crop type in Duval County for 1979

TABLE 33 LIVESTOCK WATER USE

DUVAL

1979

LIVESTOCK	USE PER ANIMAL (GPD)	NUMBER OF ANIMALS	WATER WITHDRAWN (MGD)		
			GROUND	SURFACE	TOTAL
BEEF CATTLE	12	5,000	0.01	0.05	0.06
CHICKENS	0.10	700	0.0	0.0	0.0
DAIRY CATTLE	150	12,000	0.36	1.44	1.80
DOGS	0.10	0	0.0	0.0	0.0
GOATS	2	50	0.0	0.0	0.0
HOGS	2	10,000	0.0	0.02	0.02
HORSES	12	5,000	0.01	0.05	0.06
RABBITS	0.05	200	0.0	0.0	0.0
SHEEP	2	0	0.0	0.0	0.0
TURKEYS	1	0	0.0	0.0	0.0
TOTAL			0.38	1.56	1.94

NOTE: A VALUE OF 0.0 MGD IS SHOWN IN THE TABLE FOR LIVESTOCK CATEGORIES WITH A WITHDRAWAL OF LESS THAN 0.01 MGD.

FLAGLER COUNTY

Total Population Within District	9,046
Population served by public utility	7,284
Domestic self supplied population	1,762
County GPCD	188.09

Total Water Use in MGD

Ground Fresh	10.14
Surface Fresh	0.23
Ground Saline	0.0
Surface Saline	0.0
Total	<u>10.37</u>

**FLAGLER**

TABLE 34 TOTAL WATER USE

FLAGLER COUNTY

1979

WATER USE CATEGORY	WATER WITHDRAWN (MGD)							
	FRESH			SALINE			TOTAL	
	GROUND	SURFACE	TOTAL	GROUND	SURFACE	TOTAL	TOTAL	
PUBLIC	1.37	0.0	1.37	0.0	0.0	0.0	1.37	
DOMESTIC (1)	0.33	0.0	0.33	0.0	0.0	0.0	0.33	
INSTITUTIONAL (1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
INDUSTRIAL (1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
IRRIGATION	8.37	0.18	8.55	0.0	0.0	0.0	8.55	
LIVESTOCK	0.07	0.05	0.12	0.0	0.0	0.0	0.12	
THERMOELECTRIC POWER GENERATION	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
HEAT PUMP-A/C (2) LAWN IRRIGATION	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	10.14	0.23	10.37	0.0	0.0	0.0	10.37	

TOTAL POPULATION ( 9,046 )

PER CAPITA USE (GPCD) 188.08 (3)

1. SELF-SUPPLIED ONLY.
2. DATA WAS NOT COLLECTED FOR THIS CATEGORY IN 1979.
3. GPCD IS BASED ON COUNTY PUBLIC AND DOMESTIC WATER USE.

TABLE 35 ACRES FARMED AND IRRIGATED

## FLAGLER COUNTY

1979

TOTAL AREA IN THE COUNTY 325,230 ACRES

CROPE	TOTAL ACRES	IRRIGATED ACRES	IRRIGATION METHODS USED (ACRES)			
			SPRINKLER	TILE SEEPAGE	FLOOD AND SEEPAGE	LOW PRESSURE- LOW VOLUME
CABBAGE	2,250	2,250	0	0	2,250	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	0	0	0	0	0	0
POTATOES	1,800	1,800	0	0	1,800	0
SWEET CORN	0	0	0	0	0	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	0	0	0	0	0	0
BLUEBERRIES	0	0	0	0	0	0
CITRUS	0	0	0	0	0	0
GRAPES	0	0	0	0	0	0
PEACHES	0	0	0	0	0	0
PEANUTS	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
WATERMELONS	0	0	0	0	0	0
MISC. FRUITS	0	0	0	0	0	0
FIELD CORN	500	500	0	0	500	0
SORGHUM	1,500	1,500	0	0	1,500	0
SOYBEANS	0	0	0	0	0	0
TOBACCO	0	0	0	0	0	0
MISC. GRAINS	0	0	0	0	0	0
FERNS	0	0	0	0	0	0
FLOWERS & FOLIAGE	0	0	0	0	0	0
IMPROVED PASTURE	16,500	1,000	0	0	1,000	0
SHRUBS	0	0	0	0	0	0
SOD	0	0	0	0	0	0
TURF GRASS	271	183	183	0	0	0
<b>TOTAL</b>	<b>22,821</b>	<b>7,233</b>	<b>183</b>	<b>0</b>	<b>7,050</b>	<b>0</b>

TABLE 36 IRRIGATION WATER USE

FLAGLER COUNTY

1979

CROP	APPLICATION RATES (ACRE INCHES/YR)			WATER WITHDRAWN (MGD)				
	SERINKLER	SEEEAGE	LOW PRESSURE/VOL	TOTAL AC FT	GROUND	SUREACE	RE-USED	TOTAL
CABBAGE	0.0	6.56	0.0	1230	1.1	0.0	0.0	1.1
CARROTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CUCUMBERS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
POTATOES	0.0	15.36	0.0	2304	2.06	0.0	0.0	2.06
SWEET CORN	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
WATERCRESS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. VEGETABLES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
BLUEBERRIES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CITRUS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
GRAPES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PEACHES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PEANUTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PECANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
WATERMELONS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. FRUIT	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FIELD CORN	0.0	13.84	0.0	577	0.51	0.0	0.0	0.51
SORGHUM	0.0	12.15	0.0	1519	1.36	0.0	0.0	1.36
SOYBEANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
TOBACCO	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. GRAINS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FERNS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FLOWERS & FOLIAGE	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
IMPROVED PASTURE	0.0	39.0	0.0	3250	2.9	0.0	0.0	2.9
SHRUBS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SOD	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
TURF GRASS	45.75	0.0	0.0	698	0.44	0.18	0.0	0.62
TOTAL	45.75	86.91	0.0	9578	8.37	0.18	0.0	8.55

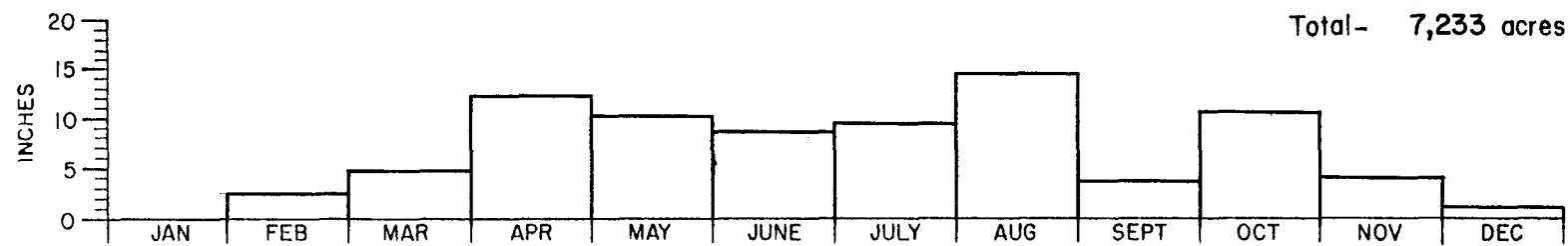
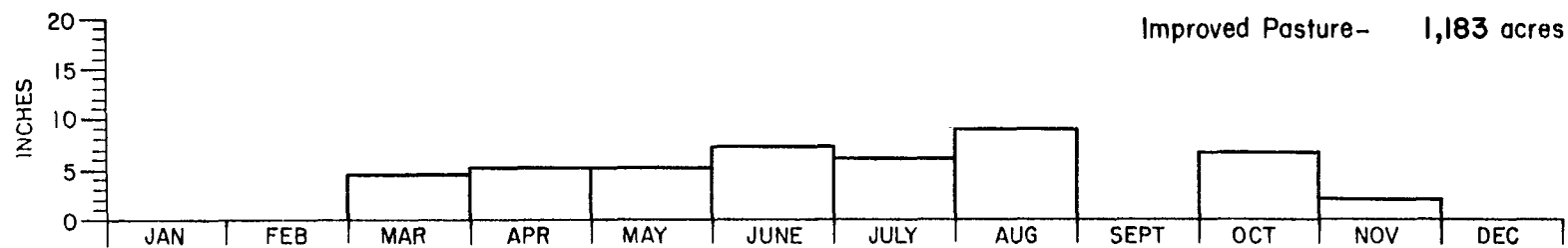
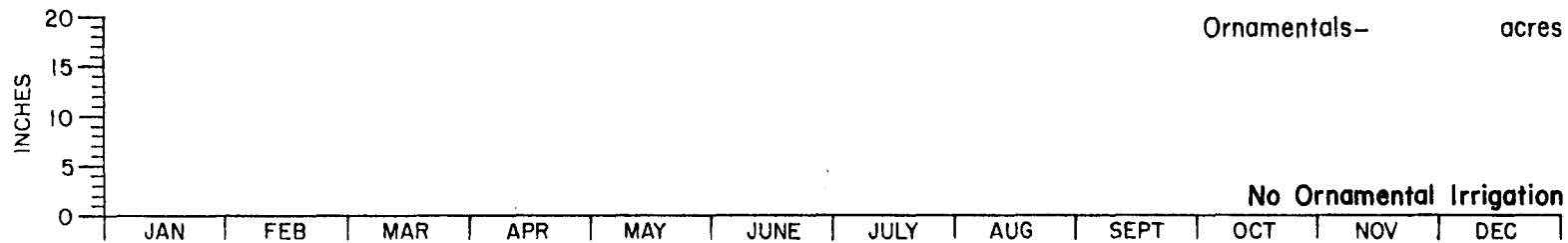
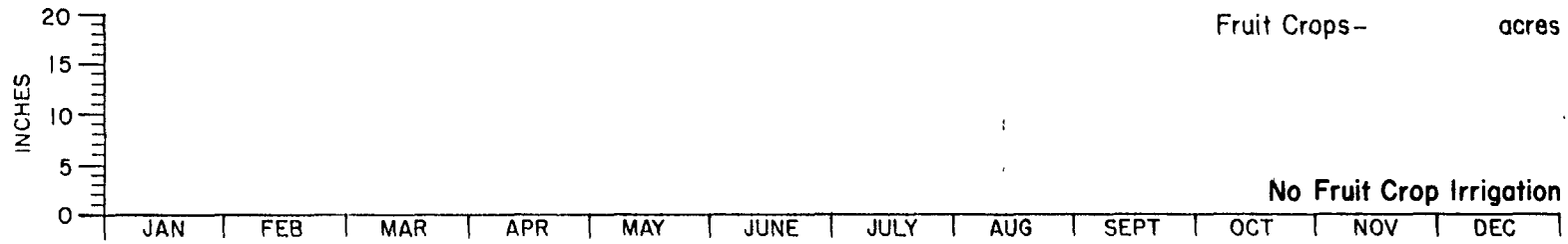
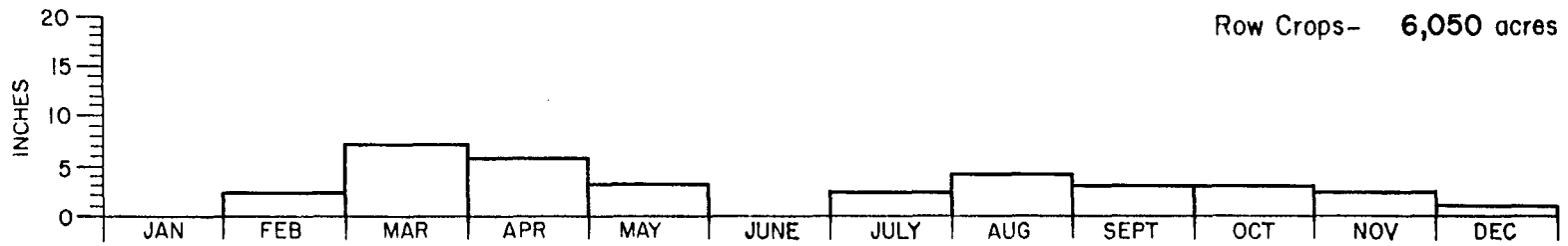


Figure 9 .-- Monthly Irrigation Water Use by crop type in Flagler County for 1979

TABLE 37 LIVESTOCK WATER USE  
 FLAGLER  
 1979

LIVESTOCK	USE PER ANIMAL (GPD)	NUMBER OF ANIMALS	WATER WITHDRAWN (MGD)		TOTAL
			GROUND	SURFACE	
BEEF CATTLE	12	10,000	0.07	0.05	0.12
CHICKENS	0.10	0	0.0	0.0	0.0
DAIRY CATTLE	150	0	0.0	0.0	0.0
DOGS	0.10	0	0.0	0.0	0.0
GOATS	2	100	0.0	0.0	0.0
HOGS	2	200	0.0	0.0	0.0
HORSES	12	500	0.0	0.0	0.0
RABBITS	0.05	100	0.0	0.0	0.0
SHEEP	2	0	0.0	0.0	0.0
TURKEYS	1	0	0.0	0.0	0.0
TOTAL			0.07	0.05	0.12

NOTE: A VALUE OF 0.0 MGD IS SHOWN IN THE TABLE FOR LIVESTOCK CATEGORIES WITH A WITHDRAWAL OF LESS THAN 0.01 MGD.



INDIAN RIVER COUNTY

Total Population Within District	56,761
Population served by public utility	24,913
Domestic self supplied population	31,848
County GPCD	250.07

Total Water Use in MGD

Ground Fresh	81.52
Surface Fresh	235.02
Ground Saline	0.0
Surface Saline	40.05
Total	<u>356.59</u>

**INDIAN RIVER**

TABLE 38 TOTAL WATER USE

INDIAN RIVER COUNTY

1979

WATER USE CATEGORY	WATER WITHDRAWN (MGD)							
	FRESH			SALINE			TOTAL	
	GROUND	SURFACE	TOTAL	GROUND	SURFACE	TOTAL	TOTAL	
PUBLIC	6.23	0.0	6.23	0.0	0.0	0.0	6.23	
DOMESTIC (1)	7.96	0.0	7.96	0.0	0.0	0.0	7.96	
INSTITUTIONAL (1)	0.04	0.0	0.04	0.0	0.0	0.0	0.04	
INDUSTRIAL (1)	0.63	0.0	0.63	0.0	0.0	0.0	0.63	
IRRIGATION	66.15	234.68	300.83	0.0	0.0	0.0	300.83	
LIVESTOCK	0.08	0.34	0.42	0.0	0.0	0.0	0.42	
THERMOELECTRIC POWER GENERATION	0.43	0.0	0.43	0.0	40.05	40.05	40.48	
HEAT PUMP-A/C (2) LAWN IRRIGATION	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	81.52	235.02	316.54	0.0	40.05	40.05	356.59	

TOTAL POPULATION ( 56,761 )

PER CAPITA USE (GPCD) 250.07 (3)

1. SELF-SUPPLIED ONLY.
2. DATA WAS NOT COLLECTED FOR THIS CATEGORY IN 1979.
3. GPCD IS BASED ON COUNTY PUBLIC AND DOMESTIC WATER USE.

TABLE 39 ACRES FARMED AND IRRIGATED

INDIAN RIVER COUNTY

1979

TOTAL AREA IN THE COUNTY 359,600 ACRES

CROP	TOTAL ACRES	IRRIGATED ACRES	IRRIGATION METHODS USED (ACRES)			
			SERINKLER	TILE SEEEAGE	FLOOD AND SEEEAGE	LOW PRESSURE- LOW VOLUME
CABBAGE	0	0	0	0	0	0
CARROTS	560	560	0	0	560	0
CUCUMBERS	0	0	0	0	0	0
POTATOES	0	0	0	0	0	0
SWEET CORN	0	0	0	0	0	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	0	0	0	0	0	0
BLUEBERRIES	0	0	0	0	0	0
CITRUS	73,294	70,294	1,406	0	59,047	9,841
GRAPES	0	0	0	0	0	0
PEACHES	0	0	0	0	0	0
PEANUTS	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
WATERMELONS	0	0	0	0	0	0
MISC. FRUITS	0	0	0	0	0	0
FIELD CORN	3,320	3,320	0	0	3,320	0
RICE	560	560	0	0	560	0
SORGHUM	320	320	0	0	320	0
SOYBEANS	0	0	0	0	0	0
TOBACCO	0	0	0	0	0	0
MISC. GRAINS	0	0	0	0	0	0
FERNS	0	0	0	0	0	0
FLOWERS & FOLIAGE	0	0	0	0	0	0
IMPROVED PASTURE	62,208	37,475	0	0	37,475	0
SHRUBS	0	0	0	0	0	0
SOD	0	0	0	0	0	0
TURF GRASS	1,050	687	687	0	0	0
TOTAL	141,312	113,216	2,093	0	101,282	9841

TABLE 40 IRRIGATION WATER USE

INDIAN RIVER COUNTY

1979

CROP	APPLICATION RATES (ACRE INCHES/YR)			WATER WITHDRAWN (MGD)				
	SPRINKLER	SEEPAGE	LOW PRESSURE/VOL	TOTAL AC ET	GROUND	SURFACE	RE-USED	TOTAL
CABBAGE	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CARROTS	0.0	12.83	0.0	599	0.53	0.0	0.0	0.53
CUCUMBERS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
POTATOES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SWEET CORN	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
WATERCRESS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. VEGETABLES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
BLUEBERRIES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CITRUS	18.22	30.11	16.73	164014	15.0	131.0	0.0	146.0
GRAPES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PEACHES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PEANUTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PECANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
WATERMELONS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. FRUIT	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FIELD CORN	0.0	23.56	0.0	6518	5.82	0.0	0.0	5.82
SORGHUM	0.0	14.23	0.0	380	0.34	0.0	0.0	0.34
SOYBEANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
TOBACCO	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. GRAINS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FERNS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FLOWERS & FOLIAGE	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
IMPROVED PASTURE	0.0	52.4	0.0	163640	44.0	102.09	0.0	146.09
SHRUBS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SOD	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
TURF GRASS	43.77	0.0	0.0	2506	0.46	0.97	0.8	1.43
RICE	0.0	15.0	0.0	700	0.0	0.62	0.0	0.62
<b>TOTAL</b>	<b>61.99</b>	<b>148.13</b>	<b>16.73</b>	<b>338357</b>	<b>66.15</b>	<b>234.68</b>	<b>0.8</b>	<b>300.83</b>

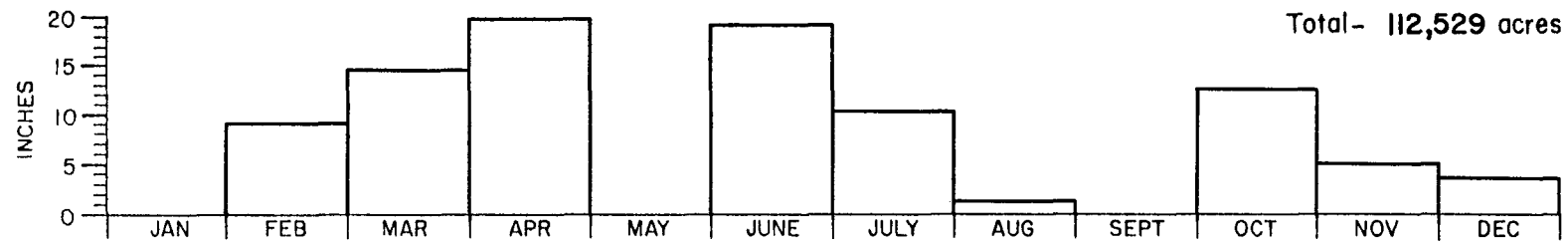
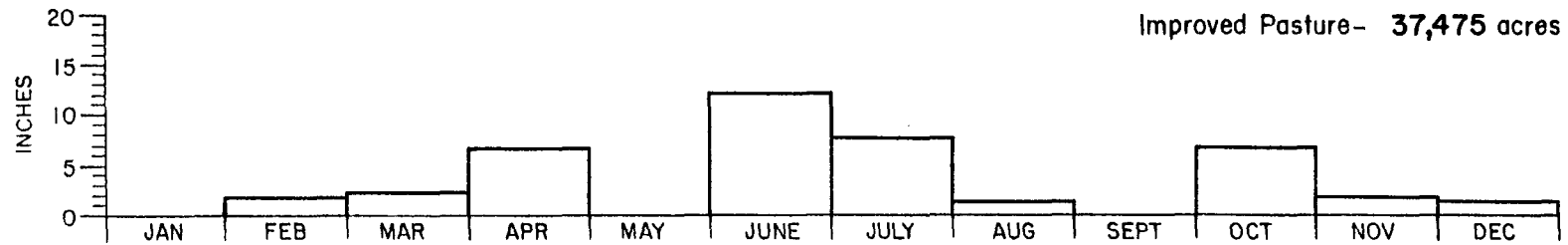
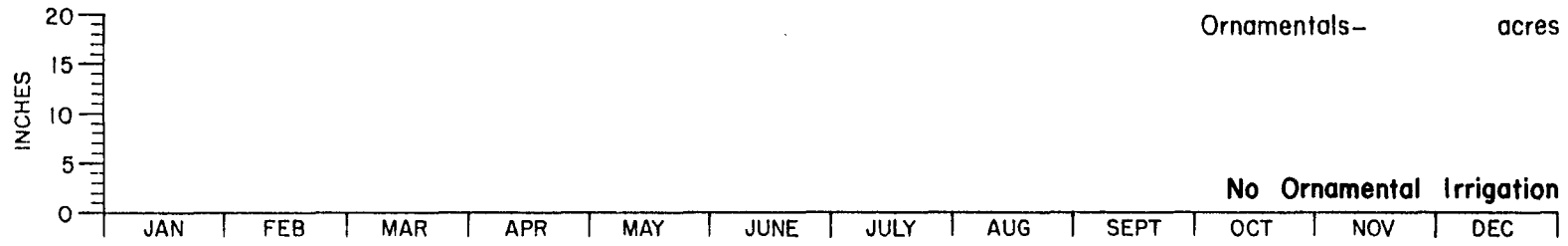
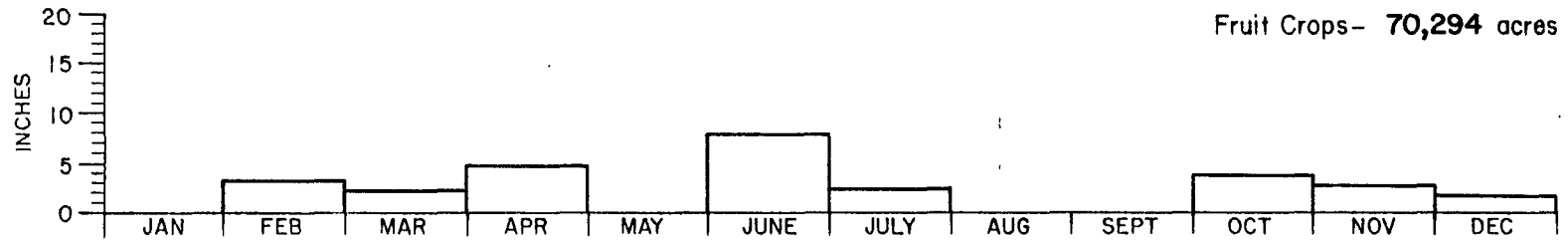
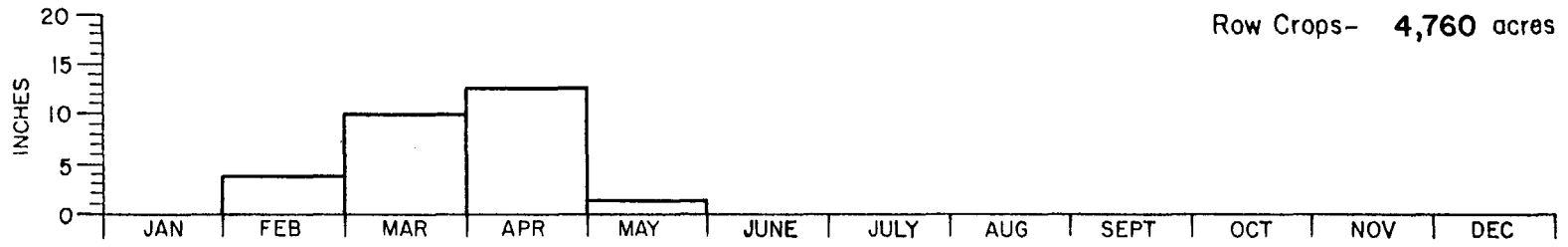


Figure 10.-- Monthly Irrigation Water Use by crop type in Indian River County for 1979

TABLE 41 LIVESTOCK WATER USE

## INDIAN RIVER

1979

LIVESTOCK	USE PER ANIMAL (MGD)	NUMBER OF ANIMALS	WATER WITHDRAWN (MGD)		
			GROUND	SURFACE	TOTAL
BEEF CATTLE	12	26,000	0.06	0.25	0.31
CHICKENS	0.10	1,000	0.0	0.0	0.0
DAIRY CATTLE	150	750	0.02	0.09	0.11
DOGS	0.10	0	0.0	0.0	0.0
GOATS	2	0	0.0	0.0	0.0
HOGS	2	100	0.0	0.0	0.0
HORSES	12	250	0.0	0.0	0.0
RABBITS	0.05	0	0.0	0.0	0.0
SHEEP	2	0	0.0	0.0	0.0
TURKEYS	1	0	0.0	0.0	0.0
TOTAL			0.08	0.34	0.42

NOTE: A VALUE OF 0.0 MGD IS SHOWN IN THE TABLE FOR LIVESTOCK CATEGORIES WITH A WITHDRAWAL OF LESS THAN 0.01 MGD.

LAKE COUNTY

Total Population Within District	94,401
Population served by public utility	61,608
Domestic self supplied population	32,793
County GPCD	171.89

Total Water Use in MGD

Ground Fresh	138.78
Surface Fresh	17.9
Ground Saline	0.0
Surface Saline	0.0
Total	<u>156.68</u>

**LAKE**

TABLE 42 TOTAL WATER USE

LAKE COUNTY (1)

1979

WATER USE CATEGORY	WATER WITHDRAWN (MGD)						TOTAL
	GROUND	FRESH SURFACE	TOTAL	GROUND	SALINE SURFACE	TOTAL	
PUBLIC	10.59	0.0	10.59	0.0	0.0	0.0	10.59
DOMESTIC (2)	5.64	0.0	5.64	0.0	0.0	0.0	5.64
INSTITUTIONAL (2)	0.03	0.0	0.03	0.0	0.0	0.0	0.03
INDUSTRIAL (2)	13.22	0.0	13.22	0.0	0.0	0.0	13.22
IRRIGATION	108.93	17.54	126.47	0.0	0.0	0.0	126.47
LIVESTOCK	0.37	0.36	0.73	0.0	0.0	0.0	0.73
THERMOELECTRIC POWER GENERATION	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HEAT PUMP-A/C (3) LAWN IRRIGATION	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>TOTAL</b>	<b>138.78</b>	<b>17.9</b>	<b>156.68</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>166.68</b>

TOTAL POPULATION ( 94,401 )

PER CAPITA USE (GPCD) 171.89 (4)

1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.
2. SELF-SUPPLIED ONLY.
3. DATA WAS NOT COLLECTED FOR THIS CATEGORY IN 1979.
4. GPCD IS BASED ON COUNTY PUBLIC AND DOMESTIC WATER USE.



TABLE 43 ACRES FARMED AND IRRIGATED

LAKE COUNTY

1979

TOTAL AREA IN THE COUNTY 678,060 ACRES

CROPE	TOTAL ACRES	IRRIGATED ACRES	IRRIGATION METHODS USED (ACRES)			
			SPRINKLER	TILE SEEPAGE	FLOOD AND SEEPAGE	LOW PRESSURE- LOW VOLUME
CABBAGE	196	196	0	0	196	0
CARROTS	2,940	2,940	0	0	2,940	0
CUCUMBERS	196	196	0	0	196	0
POTATOES	147	147	0	0	147	0
SWEET CORN	5,880	5,880	0	0	5,880	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	1,764	1,764	100	0	1,664	0
BLUEBERRIES	0	0	0	0	0	0
CITRUS	123,000	43,050	40,898	0	430	1,722
GRAPES	0	0	0	0	0	0
PEACHES	0	0	0	0	0	0
PEANUTS	0	0	0	0	0	0
PECANS	40	40	0	0	0	40
WATERMELONS	980	980	980	0	0	0
MISC. FRUITS	0	0	0	0	0	0
FIELD CORN	0	0	0	0	0	0
SORGHUM	0	0	0	0	0	0
SOYBEANS	5,000	0	0	0	0	0
TOBACCO	0	0	0	0	0	0
MISC. GRAINS	0	0	0	0	0	0
WHEAT	190	190	190	0	0	0
FERNS	450	450	450	0	0	0
FLOWERS & FOLIAGE	100	100	100	0	0	0
IMPROVED PASTURE	46,250	13,875	0	0	13,875	0
SHRUBS	0	0	0	0	0	0
SOD	0	0	0	0	0	0
TURF GRASS	950	530	530	0	0	0
<b>TOTAL</b>	<b>188,083</b>	<b>70,338</b>	<b>43,248</b>	<b>0</b>	<b>25,328</b>	<b>1,762</b>

1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.

TABLE 44 IRRIGATION WATER USE

LAKE COUNTY

1979

CROP	APPLICATION RATES			WATER WITHDRAWN				
	(ACRE INCHES/YR)			TOTAL	(MGD)			TOTAL
	SERINKLER	SEEPAGE	LOW PRESSURE/VOL	AC FT	GROUND	SURFACE	RE-USED	
CABBAGE	0.0	7.59	0.0	124	0.11	0.0	0.0	0.11
CARROTS	0.0	9.43	0.0	2310	2.06	0.0	0.0	2.06
CUCUMBERS	0.0	7.68	0.0	125	0.11	0.0	0.0	0.11
POTATOES	0.0	14.21	0.0	174	0.16	0.0	0.0	0.16
SWEET CORN	0.0	14.38	0.0	7046	6.29	0.0	0.0	6.29
WATERCRESS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. VEGETABLES	13.01	20.82	0.0	2995	6.0	1.91	0.0	7.91
BLUEBERRIES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CITRUS	16.46	26.33	13.17	58934	40.4	12.21	0.0	52.61
GRAPES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PEACHES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PEANUTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PECANS	0.0	0.0	26.9	90	0.08	0.0	0.0	0.08
WATERMELONS	4.33	0.0	0.0	354	0.32	0.0	0.0	0.32
MISC. FRUIT	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FIELD CORN	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SORGHUM	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SOYBEANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
TOBACCO	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. GRAINS	5.74	0.0	0.0	91	0.08	0.0	0.0	0.08
FERNS	50.0	0.0	0.0	1875	1.67	0.0	0.0	1.67
FLOWERS & FOLIAGE	58.0	0.0	0.0	483	0.43	0.0	0.0	0.43
IMPROVED PASTURE	0.0	51.0	0.0	58968	49.78	2.86	0.0	52.64
SHRUBS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SOD	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
TURF GRASS	50.84	0.0	0.0	2245	1.44	0.56	0.0	2.0
<b>TOTAL</b>	<b>198.38</b>	<b>151.44</b>	<b>40.07</b>	<b>135814</b>	<b>108.93</b>	<b>17.54</b>	<b>0.0</b>	<b>126.47</b>



Figure 11 .-- Monthly Irrigation Water Use by crop type in Lake County for 1979

TABLE 45 LIVESTOCK WATER USE

LAKE

1979

LIVESTOCK	USE PER ANIMAL (GPD)	NUMBER OF ANIMALS	WATER WITHDRAWN (MGD)		TOTAL
			GROUND	SURFACE	
BEEF CATTLE	12	25,900	0.15	0.15	0.30
CHICKENS	0.10	475,000	0.02	0.02	0.04
DAIRY CATTLE	150	2,500	0.19	0.18	0.37
DOGS	0.10	100	0.0	0.0	0.0
GOATS	2	50	0.0	0.0	0.0
HOGS	2	1,850	0.0	0.0	0.0
HORSES	12	2,035	0.01	0.01	0.02
RABBITS	0.05	100	0.0	0.0	0.0
SHEEP	2	93	0.0	0.0	0.0
TURKEYS	1	0	0.0	0.0	0.0
TOTAL			0.37	0.36	0.73

NOTE: A VALUE OF 0.0 MGD IS SHOWN IN THE TABLE FOR LIVESTOCK CATEGORIES WITH A WITHDRAWAL OF LESS THAN 0.01 MGD.

1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.

MARION COUNTY

Total Population Within District	80,140
Population served by public utility	31,360
Domestic self supplied population	48,780
County GPCD	161.67

Total Water Use in MGD

Ground Fresh	32.5
Surface Fresh	0.86
Ground Saline	0.0
Surface Saline	0.0
Total	<hr/> 33.36

**MARION**

TABLE 46 TOTAL WATER USE

MARION COUNTY (1)

1979

WATER USE CATEGORY	WATER WITHDRAWN (MGD)							
	FRESH			SALINE			TOTAL	
	GROUND	SURFACE	TOTAL	GROUND	SURFACE	TOTAL	TOTAL	
PUBLIC	5.07	0.0	5.07	0.0	0.0	0.0	5.07	
DOMESTIC (2)	7.89	0.0	7.89	0.0	0.0	0.0	7.89	
INSTITUTIONAL (2)	0.23	0.0	0.23	0.0	0.0	0.0	0.23	
INDUSTRIAL (2)	0.06	0.0	0.06	0.0	0.0	0.0	0.06	
IRRIGATION	18.16	0.81	18.97	0.0	0.0	0.0	18.97	
LIVESTOCK	1.09	0.05	1.14	0.0	0.0	0.0	1.14	
THERMOELECTRIC POWER GENERATION	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
HEAT PUMP--A/C (3) LAWN IRRIGATION	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	32.5	0.86	33.36	0.0	0.0	0.0	33.36	

TOTAL POPULATION ( 80,140 )

PER CAPITA USE (GPCD) 161.67 (4)

1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.
2. SELF-SUPPLIED ONLY.
3. DATA WAS NOT COLLECTED FOR THIS CATEGORY IN 1979.
4. GPCD IS BASED ON COUNTY PUBLIC AND DOMESTIC WATER USE.

TABLE 47 ACRES FARMED AND IRRIGATED

MARION COUNTY

1979

TOTAL AREA IN THE COUNTY 764,020 ACRES

CROPE	TOTAL ACRES	IRRIGATED ACRES	IRRIGATION METHODS USED (ACRES)			
			SERINKLER	TILE SEEPAGE	FLOOD AND SEEPAGE	LOW PRESSURE- LOW VOLUME
CABBAGE	0	0	0	0	0	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	0	0	0	0	0	0
POTATOES	0	0	0	0	0	0
SWEET CORN	0	0	0	0	0	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	1,600	1,220	1,220	0	0	0
BLUEBERRIES	50	50	40	0	0	10
CITRUS	11,000	8,000	7,600	0	0	400
GRAFES	50	50	50	0	0	0
PEACHES	1,000	1,000	1,000	0	0	0
PEANUTS	3,251	488	488	0	0	0
PECANS	0	0	0	0	0	0
WATERMELONS	1,150	350	350	0	0	0
MISC. FRUITS	0	0	0	0	0	0
FIELD CORN	4,125	1,320	224	0	1,096	0
SORGHUM	150	0	0	0	0	0
SOYBEANS	5,625	750	750	0	0	0
TOBACCO	0	0	0	0	0	0
MISC. GRAINS	0	0	0	0	0	0
FERNS	0	0	0	0	0	0
FLOWERS & FOLIAGE	180	180	180	0	0	0
IMPROVED PASTURE	60,500	275	0	0	275	0
SHRUBS	0	0	0	0	0	0
SOD	0	0	0	0	0	0
TURF GRASS	612	252	252	0	0	0
<b>TOTAL</b>	<b>89,293</b>	<b>13,935</b>	<b>12,154</b>	<b>0</b>	<b>1,371</b>	<b>410</b>

1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.

TABLE 48 IRRIGATION WATER USE

MARION COUNTY

1979

85

CROP	APPLICATION RATES			WATER WITHDRAWN				
	(ACRE INCHES/YR)			TOTAL AC-FT	(MGD)			TOTAL
	SPRINKLER	SEEPAGE	LOW PRESSURE/VOL		GROUND	SURFACE	RE-USED	
CABBAGE	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CARROTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CUCUMBERS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
POTATOES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SWEET CORN	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
WATERCRESS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. VEGETABLES	8.37	0.0	0.0	851	0.76	0.0	0.0	0.76
BLUEBERRIES	23.61	0.0	17.13	92	0.08	0.0	0.0	0.08
CITRUS	16.53	0.0	14.7	10469	8.9	0.45	0.0	9.35
GRAPES	21.63	0.0	0.0	90	0.0	0.0	0.0	0.0
PEACHES	31.46	0.0	0.0	2622	2.34	0.0	0.0	2.34
PEANUTS	7.56	0.0	0.0	307	0.27	0.0	0.0	0.27
PECANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
WATERMELONS	6.26	0.0	0.0	183	0.16	0.0	0.0	0.16
MISC. FRUIT	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FIELD CORN	18.84	30.14	0.0	3105	2.67	0.1	0.0	2.77
SORGHUM	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SOYBEANS	7.45	0.0	0.0	466	0.4	0.02	0.0	0.42
TOBACCO	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. GRAINS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FERNS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FLOWERS & FOLIAGE	60.0	0.0	0.0	900	0.8	0.0	0.0	0.8
IMPROVED PASTURE	0.0	46.83	0.0	1073	0.92	0.04	0.0	0.96
SHRUBS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SOD	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
TURF GRASS	56.74	0.0	0.0	1192	0.86	0.2	0.0	1.06
TOTAL	258.45	76.97	31.83	21350	18.16	0.81	0.0	18.97



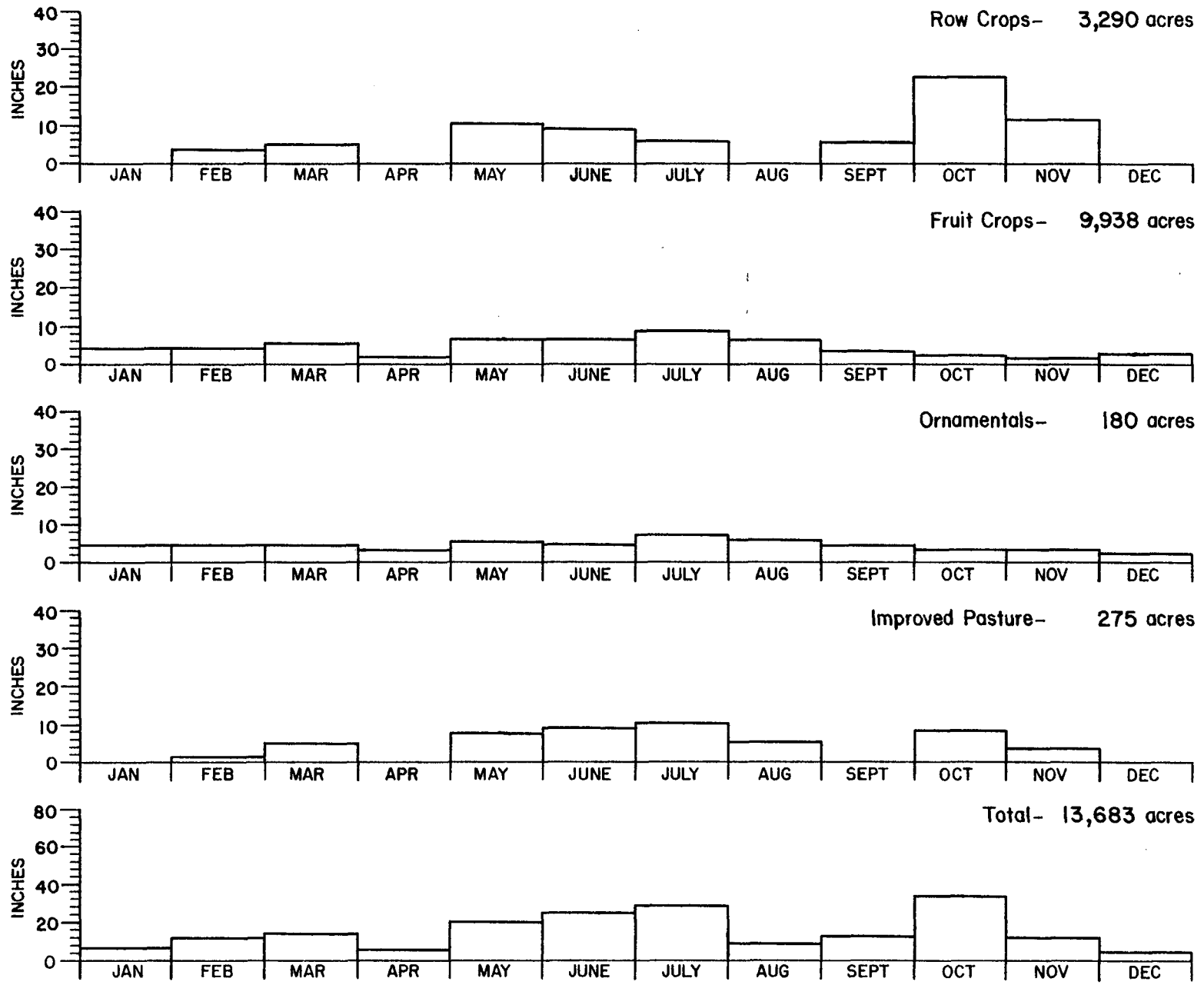


Figure 12.-- Monthly Irrigation Water Use by crop type in Marion County for 1979

TABLE 49 LIVESTOCK WATER USE

MARION

1979

LIVESTOCK	USE PER ANIMAL (MGD)	NUMBER OF ANIMALS	WATER WITHDRAWN (MGD)		TOTAL
			GROUND	SURFACE	
BEEF CATTLE	12	30,250	0.34	0.02	0.36
CHICKENS	0.10	90,000	0.01	0.0	0.01
DAIRY CATTLE	150	4,750	0.68	0.03	0.71
DOGS	0.10	600	0.0	0.0	0.0
GOATS	2	1,600	0.0	0.0	0.0
HOGS	2	3,850	0.01	0.0	0.01
HORSES	12	4,500	0.05	0.0	0.05
RABBITS	0.05	0	0.0	0.0	0.0
SHEEP	2	67	0.0	0.0	0.0
TURKEYS	1	0	0.0	0.0	0.0
TOTAL			1.09	0.05	1.14

NOTE: A VALUE OF 0.0 MGD IS SHOWN IN THE TABLE FOR LIVESTOCK CATEGORIES WITH A WITHDRAWAL OF LESS THAN 0.01 MGD.

1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.

NASSAU COUNTY

Total Population Within District	31,798
Population served by public utility	11,500
Domestic self supplied population	20,298
County GPCD	201.73

Total Water Use in MGD

Ground Fresh	63.24
Surface Fresh	0.86
Ground Saline	0.0
Surface Saline	2.0
Total	<u>66.1</u>

**NASSAU**

TABLE 50 TOTAL WATER USE

NASSAU COUNTY

1979

WATER USE CATEGORY	FRESH			SALINE			TOTAL
	GROUND	SURFACE	TOTAL	GROUND	SURFACE	TOTAL	
PUBLIC	2.32	0.0	2.32	0.0	0.0	0.0	2.32
DOMESTIC (1)	4.09	0.0	4.09	0.0	0.0	0.0	4.09
INSTITUTIONAL (1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDUSTRIAL (1)	55.41	0.0	55.41	0.0	2.0	2.0	57.41
IRRIGATION	0.59	0.03	0.62	0.0	0.0	0.0	0.62
LIVESTOCK	0.83	0.83	1.66	0.0	0.0	0.0	1.66
THERMOELECTRIC POWER GENERATION	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HEAT PUMP-A/C (2) LAWN IRRIGATION	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	63.24	0.86	64.1	0.0	2.0	2.0	66.1

TOTAL POPULATION ( 31,798 )

PER CAPITA USE (GPCD) 201.73 (3)

1. SELF-SUPPLIED ONLY.
2. DATA WAS NOT COLLECTED FOR THIS CATEGORY IN 1979.
3. GPCD IS BASED ON COUNTY PUBLIC AND DOMESTIC WATER USE.

TABLE 51 ACRES FARMED AND IRRIGATED

NASSAU COUNTY

1979

TOTAL AREA IN THE COUNTY 433,290 ACRES

CROPE	TOTAL ACRES	IRRIGATED ACRES	IRRIGATION METHODS USED (ACRES)			
			SERINKLER	TILE SEEPAGE	FLOOD AND SEEPAGE	LOW PRESSURE- LOW VOLUME
CABBAGE	0	0	0	0	0	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	0	0	0	0	0	0
POTATOES	0	0	0	0	0	0
SWEET CORN	0	0	0	0	0	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	100	5	5	0	0	0
BLUEBERRIES	215	215	0	0	0	215
CITRUS	0	0	0	0	0	0
GRAPES	0	0	0	0	0	0
PEACHES	0	0	0	0	0	0
PEANUTS	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
WATERMELONS	5	0	0	0	0	0
MISC. FRUITS	0	0	0	0	0	0
FIELD CORN	1,500	0	0	0	0	0
SORGHUM	0	0	0	0	0	0
SOYBEANS	0	0	0	0	0	0
TOBACCO	37	0	0	0	0	0
MISC. GRAINS	0	0	0	0	0	0
FERNS	0	0	0	0	0	0
FLOWERS & FOLIAGE	20	20	20	0	0	0
IMPROVED PASTURE	4,810	0	0	0	0	0
SHRUBS	3	0	0	0	0	0
SOD	0	0	0	0	0	0
TURF GRASS	491	222	222	0	0	0
<hr/>						
TOTAL	7,181	462	247	0	0	215

06

TABLE 52 IRRIGATION WATER USE

NASSAU COUNTY

1979

CROP	APPLICATION RATES			TOTAL AC. ET	WATER WITHDRAWN			
	SPRINKLER	SEEPAGE	LOW PRESSURE/VOL		GROUND	SURFACE	RE-USED	TOTAL
	(ACRE INCHES/YR)				(MGD)			
CABBAGE	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CARROTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CUCUMBERS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
POTATOES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SWEET CORN	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
WATERCRESS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. VEGETABLES	7.01	0.0	0.0	3	0.0	0.0	0.0	0.0
BLUEBERRIES	0.0	0.0	16.33	293	0.26	0.0	0.0	0.26
CITRUS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
GRAPES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PEACHES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PEANUTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PECANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
WATERMELONS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. FRUIT	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FIELD CORN	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SORGHUM	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SOYBEANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
TOBACCO	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. GRAINS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FERNS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FLOWERS & FOLIAGE	60.0	0.0	0.0	100	0.09	0.0	0.0	0.09
IMPROVED PASTURE	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SHRUBS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SOD	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
TURF GRASS	31.71	0.0	0.0	587	0.24	0.03	0.25	0.27
TOTAL	98.72	0.0	16.33	983	0.59	0.03	0.25	0.62

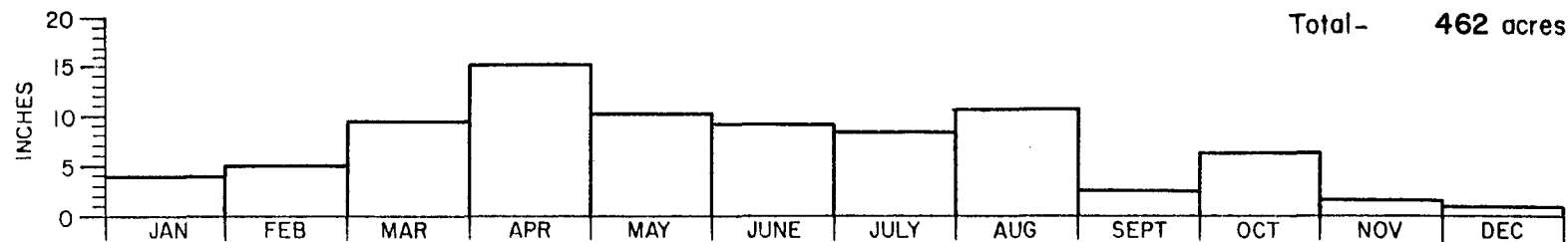
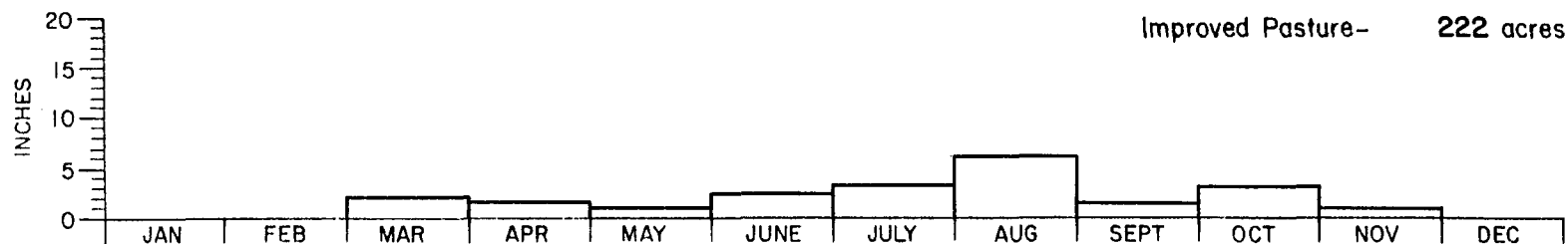
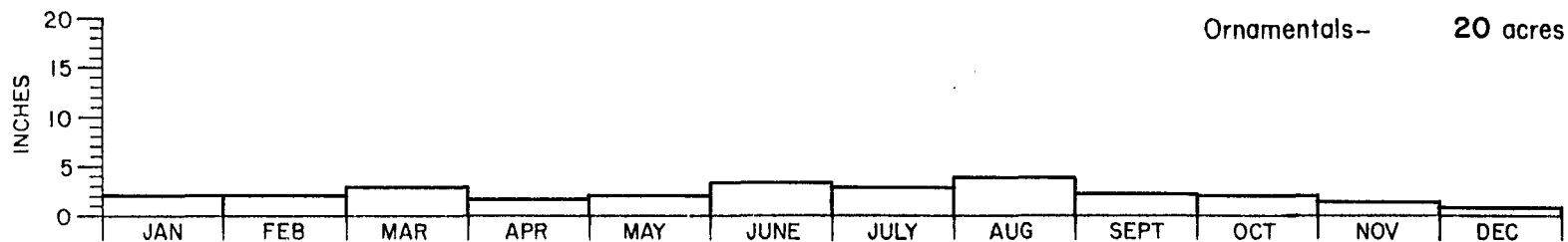
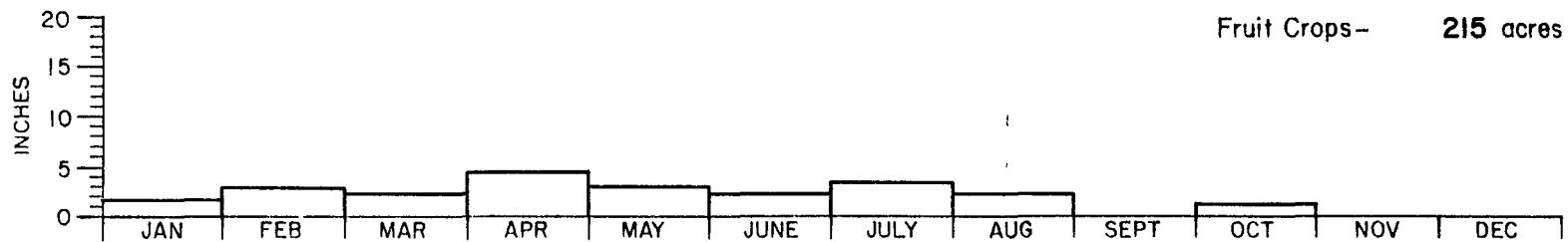
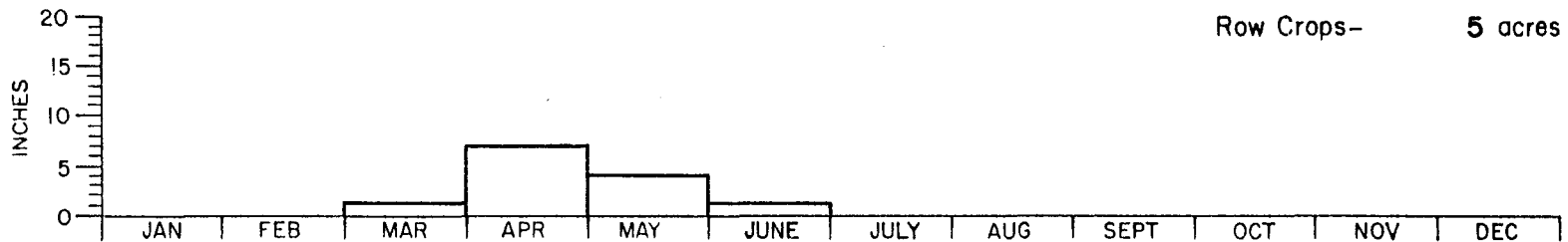


Figure 13 .-- Monthly Irrigation Water Use by crop type in Nassau County for 1979

TABLE 53 LIVESTOCK WATER USE  
 NASSAU  
 1979

LIVESTOCK	USE PER ANIMAL (GPD)	NUMBER OF ANIMALS	WATER WITHDRAWN (MGD)		
			GROUND	SURFACE	TOTAL
BEEF CATTLE	12	20,000	0.12	0.12	0.24
CHICKENS	0.10	1,150,000	0.06	0.06	0.12
DAIRY CATTLE	150	8,000	0.60	0.60	1.20
DOGS	0.10	100	0.0	0.0	0.0
GOATS	2	600	0.0	0.0	0.0
HOGS	2	4,000	0.0	0.0	0.0
HORSES	12	8,000	0.05	0.05	0.10
RABBITS	0.05	300	0.0	0.0	0.0
SHEEP	2	0	0.0	0.0	0.0
TURKEYS	1	0	0.0	0.0	0.0
TOTAL			0.83	0.83	1.66

NOTE: A VALUE OF 0.0 MGD IS SHOWN IN THE TABLE FOR LIVESTOCK CATEGORIES WITH A WITHDRAWAL OF LESS THAN 0.01 MGD.



OKEECHOBEE COUNTY

Total Population Within District	250
Population served by public utility	0
Domestic self supplied population	250
County GPCD	170.84 (Used District Average GPCD)

Total Water Use in MGD

Ground Fresh	10.6
Surface Fresh	1.92
Ground Saline	0.0
Surface Saline	0.0
Total	<u>12.52</u>

OKEECHOBEE

TABLE 54 TOTAL WATER USE

OSKEECHOBEE COUNTY (1)

1979

WATER USE CATEGORY	WATER WITHDRAWN (MGD)							
	FRESH			SALINE				
	GROUND	SURFACE	TOTAL	GROUND	SURFACE	TOTAL	TOTAL	
PUBLIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
DOMESTIC (2)	0.04	0.0	0.04	0.0	0.0	0.0	0.04	
INSTITUTIONAL (2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
INDUSTRIAL (2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
IRRIGATION	9.98	1.67	11.65	0.0	0.0	0.0	11.65	
LIVESTOCK	0.58	0.25	0.83	0.0	0.0	0.0	0.83	
THERMOELECTRIC POWER GENERATION	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
HEAT PUMP-A/C (3) LAWN IRRIGATION	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	10.6	1.92	12.52	0.0	0.0	0.0	12.52	

TOTAL POPULATION ( 250 )

PER CAPITA USE (GPCD) 170.84 (4)

1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.
2. SELF-SUPPLIED ONLY.
3. DATA WAS NOT COLLECTED FOR THIS CATEGORY IN 1979.
4. GPCD IS BASED ON DISTRICT AVERAGE GPCD.

TABLE 55 ACRES FARMED AND IRRIGATED

OKEECHOBEE COUNTY

1979

TOTAL AREA IN THE COUNTY 66,072 ACRES

CROPE	TOTAL ACRES	IRRIGATED ACRES	IRRIGATION METHODS USED (ACRES)			
			SPRINKLER	TILE SEEPAGE	FLOOD AND SEEPAGE	LOW PRESSURE- LOW VOLUME
CABBAGE	0	0	0	0	0	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	0	0	0	0	0	0
POTATOES	0	0	0	0	0	0
SWEET CORN	0	0	0	0	0	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	0	0	0	0	0	0
BLUEBERRIES	0	0	0	0	0	0
CITRUS	1,400	1,200	0	0	1,200	0
GRAPES	0	0	0	0	0	0
PEACHES	0	0	0	0	0	0
PEANUTS	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
WATERMELONS	0	0	0	0	0	0
MISC. FRUITS	0	0	0	0	0	0
FIELD CORN	0	0	0	0	0	0
SORGHUM	0	0	0	0	0	0
SOYBEANS	0	0	0	0	0	0
TOBACCO	0	0	0	0	0	0
MISC. GRAINS	0	0	0	0	0	0
FERNS	0	0	0	0	0	0
FLOWERS & FOLIAGE	0	0	0	0	0	0
IMPROVED PASTURE	20,000	2,782	0	0	2,782	0
SHRUBS	0	0	0	0	0	0
SOD	0	0	0	0	0	0
TURF GRASS	0	0	0	0	0	0
<b>TOTAL</b>	<b>21,400</b>	<b>3,982</b>	<b>0</b>	<b>0</b>	<b>3,982</b>	<b>0</b>

1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.

TABLE 56 IRRIGATION WATER USE

OSKEECHOBEE COUNTY

1979

CROP	APPLICATION RATES			TOTAL AC. FT.	WATER WITHDRAWN			
	(ACRE INCHES/YR)				(MGD)			
	SPRINKLER	SEEPAGE	LOW PRESSURE/VOL		GROUND	SURFACE	RE-USED	TOTAL
CABBAGE	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CARROTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CUCUMBERS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
POTATOES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SWEET CORN	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
WATERCRESS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. VEGETABLES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
BLUEBERRIES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CITRUS	0.0	26.33	0.0	2633	1.98	0.37	0.0	2.35
GRAPES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PEACHES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PEANUTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PECANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
WATERMELONS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. FRUIT	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FIELD CORN	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SORGHUM	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SOYBEANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
TOBACCO	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. GRAINS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FERNS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FLOWERS & FOLIAGE	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
IMPROVED PASTURE	0.0	44.93	0.0	10416	8.0	1.3	0.0	9.3
SHRUBS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SOD	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
TURF GRASS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
<b>TOTAL</b>	<b>0.0</b>	<b>71.26</b>	<b>0.0</b>	<b>13049</b>	<b>9.98</b>	<b>1.67</b>	<b>0.0</b>	<b>11.65</b>

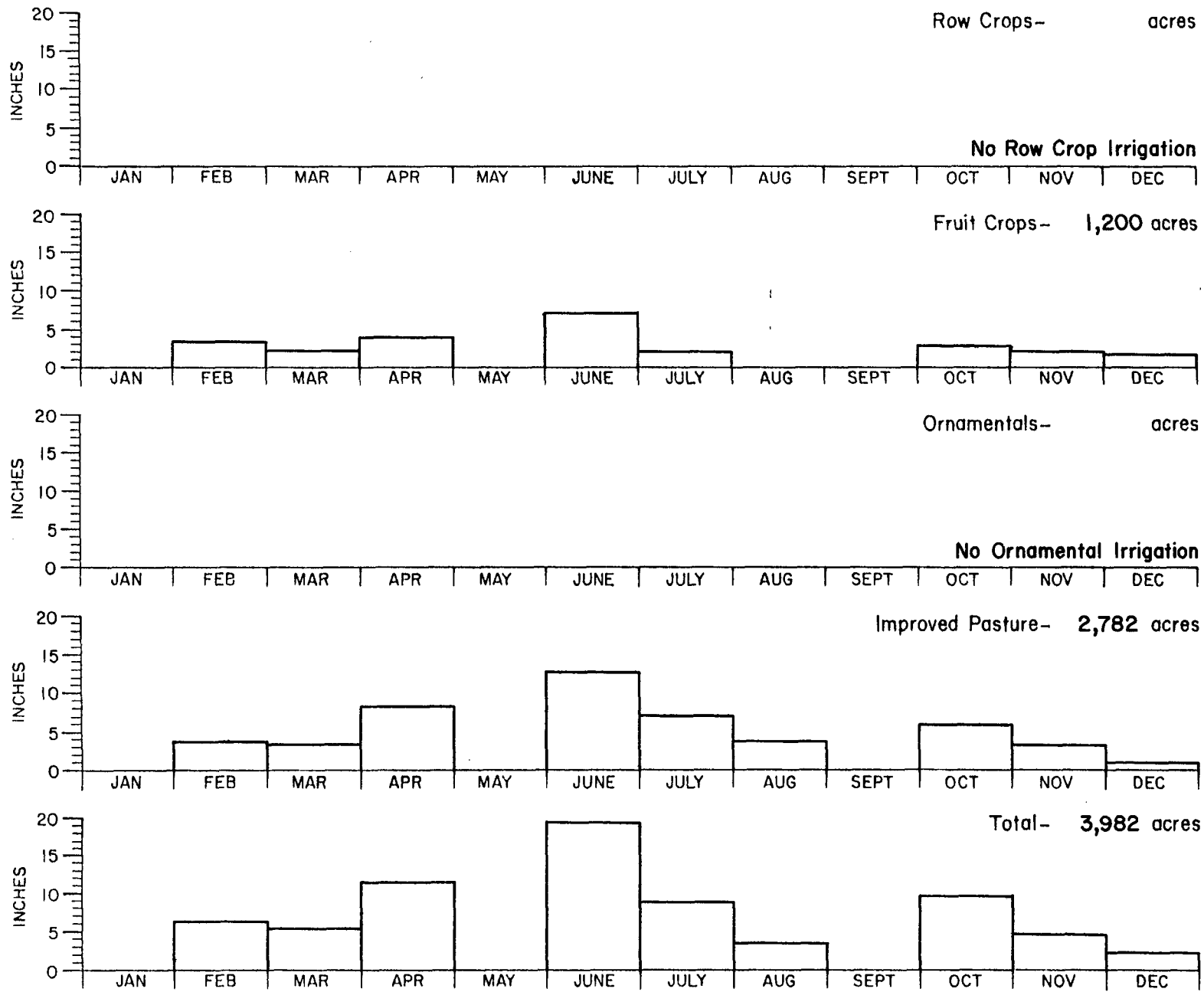


Figure 14 .-- Monthly Irrigation Water Use by crop type in Okeechobee County for 1979

TABLE 57 LIVESTOCK WATER USE

OKEECHOBEE

1979

LIVESTOCK	USE PER ANIMAL (GPD)	NUMBER OF ANIMALS	WATER WITHDRAWN (MGD)		TOTAL
			GROUND	SURFACE	
BEEF CATTLE	12	8,450	0.07	0.03	0.10
CHICKENS	0.10	0	0.0	0.0	0.0
DAIRY CATTLE	150	4,810	0.51	0.22	0.73
DOGS	0.10	0	0.0	0.0	0.0
GOATS	2	6	0.0	0.0	0.0
HOGS	2	65	0.0	0.0	0.0
HORSES	12	65	0.0	0.0	0.0
RABBITS	0.05	65	0.0	0.0	0.0
SHEEP	2	0	0.0	0.0	0.0
TURKEYS	1	0	0.0	0.0	0.0
TOTAL			0.58	0.25	0.83

NOTE: A VALUE OF 0.0 MGD IS SHOWN IN THE TABLE FOR LIVESTOCK CATEGORIES WITH A WITHDRAWAL OF LESS THAN 0.01 MGD.

1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.

ORANGE COUNTY

Total Population Within District	361,896
Population served by public utility	331,105
Domestic self supplied population	30,791
County GPCD	177.49

Total Water Use in MGD

Ground Fresh	129.28
Surface Fresh	76.24
Ground Saline	0.0
Surface Saline	0.0
Total	<u>205.52</u>

**ORANGE**

TABLE 58 TOTAL WATER USE

ORANGE COUNTY (1)

1979

WATER USE CATEGORY	WATER WITHDRAWN (MGD)							
	FRESH			SALINE			TOTAL	TOTAL
	GROUND	SURFACE	TOTAL	GROUND	SURFACE	TOTAL		
PUBLIC	76.29	0.0	76.29	0.0	0.0	0.0	76.29	
DOMESTIC (2)	5.47	0.0	5.47	0.0	0.0	0.0	5.47	
INSTITUTIONAL (2)	0.62	0.0	0.62	0.0	0.0	0.0	0.62	
INDUSTRIAL (2)	5.74	0.0	5.74	0.0	0.0	0.0	5.74	
IRRIGATION	40.76	2.22	42.98	0.0	0.0	0.0	42.98	
LIVESTOCK	0.4	0.41	0.81	0.0	0.0	0.0	0.81	
THERMOELECTRIC POWER GENERATION	0.0	73.61	73.61	0.0	0.0	0.0	73.61	
HEAT PUMP-A/C (3) LAWN IRRIGATION	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	129.28	76.24	205.52	0.0	0.0	0.0	205.52	

TOTAL POPULATION ( 361,896 )

PER CAPITA USE (GPCD) 177.49 (4)

1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.
2. SELF-SUPPLIED ONLY.
3. DATA WAS NOT COLLECTED FOR THIS CATEGORY IN 1979.
4. GPCD IS BASED ON COUNTY PUBLIC AND DOMESTIC WATER USE.



TABLE 59 ACRES FARMED AND IRRIGATED

ORANGE COUNTY

1979

TOTAL AREA IN THE COUNTY 476,200 ACRES

CROP	TOTAL ACRES	IRRIGATED ACRES	IRRIGATION METHODS USED (ACRES)			
			SPRINKLER	TILE SEEPAGE	FLOOD AND SEEPAGE	LOW PRESSURE- LOW VOLUME
CABBAGE	780	780	125	0	655	0
CARROTS	2,000	2,000	320	0	1,680	0
CUCUMBERS	225	225	36	0	189	0
POTATOES	0	0	0	0	0	0
SWEET CORN	2,000	2,000	320	0	1,680	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	2,425	2,425	388	0	2,037	0
BLUEBERRIES	0	0	0	0	0	0
CITRUS	25,580	14,500	13,050	0	0	1,450
GRAPES	0	0	0	0	0	0
PEACHES	0	0	0	0	0	0
PEANUTS	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
WATERMELONS	0	0	0	0	0	0
MISC. FRUITS	0	0	0	0	0	0
FIELD CORN	0	0	0	0	0	0
SORGHUM	0	0	0	0	0	0
SOYBEANS	0	0	0	0	0	0
TOBACCO	0	0	0	0	0	0
MISC. GRAINS	0	0	0	0	0	0
FERNS	0	0	0	0	0	0
FLOWERS & FOLIAGE	1,500	1,500	750	0	0	750
IMPROVED PASTURE	18,562	1,688	355	0	1,333	0
SHRUBS	0	0	0	0	0	0
SOD	100	100	0	0	100	0
TURF GRASS	1,328	749	749	0	0	0
<hr/>						
TOTAL	54,500	25,967	16,093	0	7,674	2,200

1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.

TABLE 60 IRRIGATION WATER USE

ORANGE COUNTY

1979

CROP	APPLICATION RATES			WATER WITHDRAWN				
	(ACRE INCHES/YR)			TOTAL AC FT	(MGD)			TOTAL
	SPRINKLER	SEEPAGE	LOW PRESSURE/VOL		GROUND	SURFACE	RE-USED	
CABBAGE	9.87	15.79	0.0	965	0.86	0.0	0.0	0.86
CARROTS	9.87	15.79	0.0	2474	2.23	0.0	0.0	2.23
CUCUMBERS	9.86	15.79	0.0	278	0.25	0.0	0.0	0.25
POTATOES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SWEET CORN	9.18	14.69	0.0	2301	2.05	0.0	0.0	2.05
WATERCRESS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. VEGETABLES	15.04	24.06	0.0	4571	4.08	0.0	0.0	4.08
BLUEBERRIES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CITRUS	17.06	0.0	15.17	20386	17.29	0.91	0.0	18.2
GRAPES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PEACHES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PEANUTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PECANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
WATERMELONS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. FRUIT	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FIELD CORN	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SORGHUM	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SOYBEANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
TOBACCO	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. GRAINS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FERNS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FLOWERS & FOLIAGE	100.0	0.0	100.0	1250	0.9	0.22	0.0	1.12
IMPROVED PASTURE	33.09	52.94	0.0	6860	6.12	0.0	0.0	6.12
SHRUBS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SOD	0.0	54.9	0.0	458	0.41	0.0	0.0	0.41
TURF GRASS	137.48	0.0	0.0	8581	6.57	1.09	0.0	7.66
TOTAL	341.45	193.96	115.17	48124	40.76	2.22	0.0	42.98

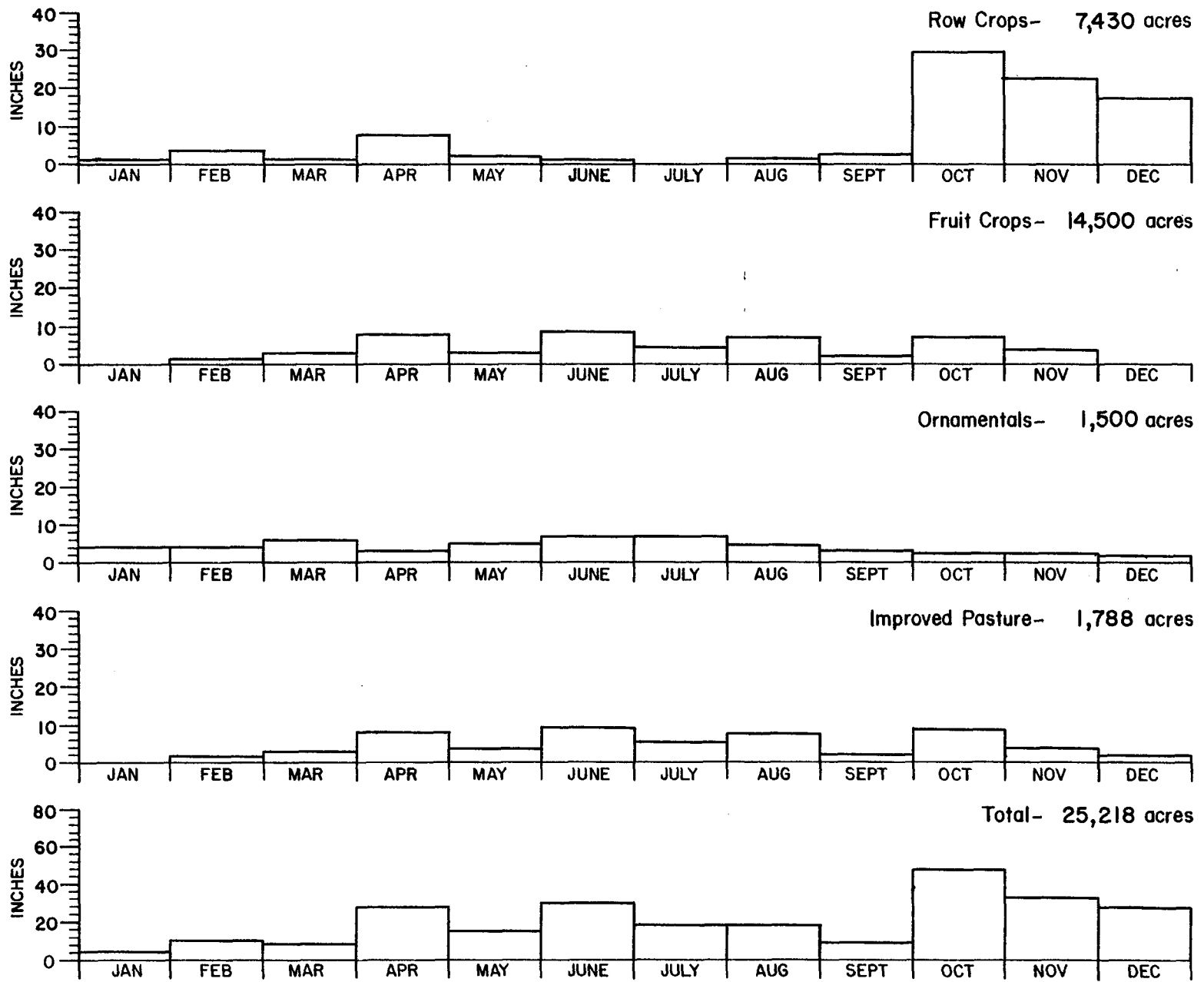


Figure 15 .-- Monthly Irrigation Water Use by crop type in Orange County for 1979

TABLE 61 LIVESTOCK WATER USE  
ORANGE  
1979

LIVESTOCK	USE PER ANIMAL (GPD)	NUMBER OF ANIMALS	WATER WITHDRAWN (MGD)		TOTAL
			GROUND	SURFACE	
BEEF CATTLE	12	9,900	0.06	0.06	0.12
CHICKENS	0.10	800,000	0.04	0.04	0.08
DAIRY CATTLE	150	3,500	0.26	0.26	0.52
DOGS	0.10	0	0.0	0.0	0.0
GOATS	2	35	0.0	0.0	0.0
HOGS	2	5,000	0.0	0.01	0.01
HORSES	12	6,650	0.04	0.04	0.08
RABBITS	0.05	0	0.0	0.0	0.0
SHEEP	2	15	0.0	0.0	0.0
TURKEYS	1	0	0.0	0.0	0.0
TOTAL			0.40	0.41	0.81

NOTE: A VALUE OF 0.0 MGD IS SHOWN IN THE TABLE FOR LIVESTOCK CATEGORIES WITH A WITHDRAWAL OF LESS THAN 0.01 MGD.  
1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.

OSCEOLA COUNTY

Total Population Within District	200
Population served by public utility	0
Domestic self supplied population	200
County GPCD	170.84 (Used District Average GPCD)

Total Water Use in MGD

Ground Fresh	4.32
Surface Fresh	1.58
Ground Saline	0.0
Surface Saline	0.0
Total	<u>5.90</u>

**OSCEOLA**

TABLE 62 TOTAL WATER USE

OSCEOLA COUNTY (1)

1979

WATER USE CATEGORY	WATER WITHDRAWN (MGD)						TOTAL
	GROUND	FRESH SURFACE	TOTAL	GROUND	SALINE SURFACE	TOTAL	
PUBLIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DOMESTIC (2)	0.03	0.0	0.03	0.0	0.0	0.0	0.03
INSTITUTIONAL (2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDUSTRIAL (2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRRIGATION	4.29	1.01	5.3	0.0	0.0	0.0	5.3
LIVESTOCK	0.0	0.57	0.57	0.0	0.0	0.0	0.57
THERMOELECTRIC POWER GENERATION	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HEAT PUMP-A/C (3) LAWN IRRIGATION	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	4.32	1.58	5.9	0.0	0.0	0.0	5.9

TOTAL POPULATION ( 200 )

PER CAPITA USE (GPCD) 170.84 (4)

1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.
2. SELF-SUPPLIED ONLY.
3. DATA WAS NOT COLLECTED FOR THIS CATEGORY IN 1979.
4. GPCD IS BASED ON DISTRICT AVERAGE GPCD.

TABLE 63 ACRES FARMED AND IRRIGATED  
OSCEOLA COUNTY

1979

TOTAL AREA IN THE COUNTY 346,810 ACRES

CROP	TOTAL ACRES	IRRIGATED ACRES	IRRIGATION METHODS USED (ACRES)			
			SPRINKLER	TILE SEEPAGE	FLOOD AND SEEPAGE	LOW PRESSURE- LOW VOLUME
CABBAGE	0	0	0	0	0	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	0	0	0	0	0	0
POTATOES	0	0	0	0	0	0
SWEET CORN	0	0	0	0	0	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	201	201	0	0	201	0
BLUEBERRIES	0	0	0	0	0	0
CITRUS	0	0	0	0	0	0
GRAPES	0	0	0	0	0	0
PEACHES	0	0	0	0	0	0
PEANUTS	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
WATERMELONS	0	0	0	0	0	0
MISC. FRUITS	0	0	0	0	0	0
FIELD CORN	0	0	0	0	0	0
SORGHUM	0	0	0	0	0	0
SOYBEANS	0	0	0	0	0	0
TOBACCO	0	0	0	0	0	0
MISC. GRAINS	0	0	0	0	0	0
FERNS	0	0	0	0	0	0
FLOWERS & FOLIAGE	0	0	0	0	0	0
IMPROVED PASTURE	125,800	1,250	0	0	1,250	0
SHRUBS	0	0	0	0	0	0
SOD	0	0	0	0	0	0
TURF GRASS	0	0	0	0	0	0
<hr/>						
TOTAL	126,001	1,451	0	0	1,451	0

1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.

TABLE 64 IRRIGATION WATER USE

OSCEOLA COUNTY

1979

CROP	APPLICATION RATES (ACRE INCHES/YR)			WATER WITHDRAWN (MGD)				
	SERINKLER	SEEPAGE	LOW PRESSURE/VOL	TOTAL AC ET	GROUND	SURFACE	RE-USED	TOTAL
CABBAGE	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CARROTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CUCUMBERS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
POTATOES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SWEET CORN	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
WATERCRESS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. VEGETABLES	0.0	6.2	0.0	104	0.08	0.01	0.0	0.09
BLUEBERRIES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CITRUS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
GRAPES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PEACHES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PEANUTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PECANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
WATERMELONS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. FRUIT	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FIELD CORN	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SORGHUM	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SOYBEANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
TOBACCO	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. GRAINS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FERNS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FLOWERS & FOLIAGE	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
IMPROVED PASTURE	0.0	56.0	0.0	5833	4.21	1.0	0.0	5.21
SHRUBS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SOD	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
TURF GRASS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
TOTAL	0.0	62.2	0.0	5937	4.29	1.01	0.0	5.3



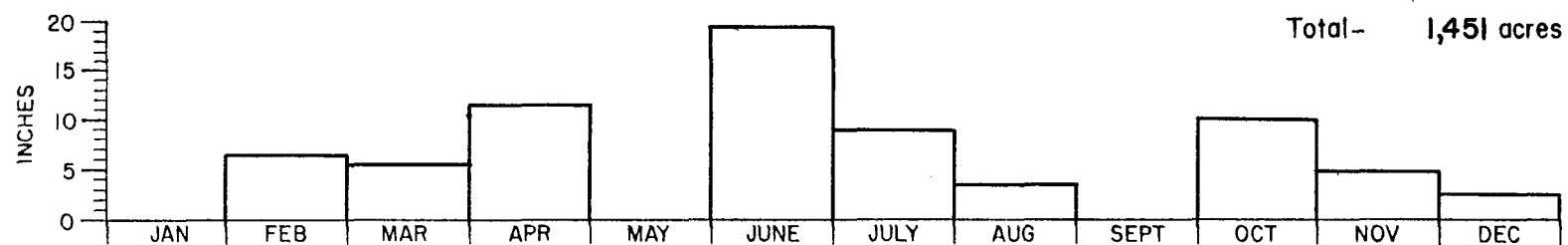
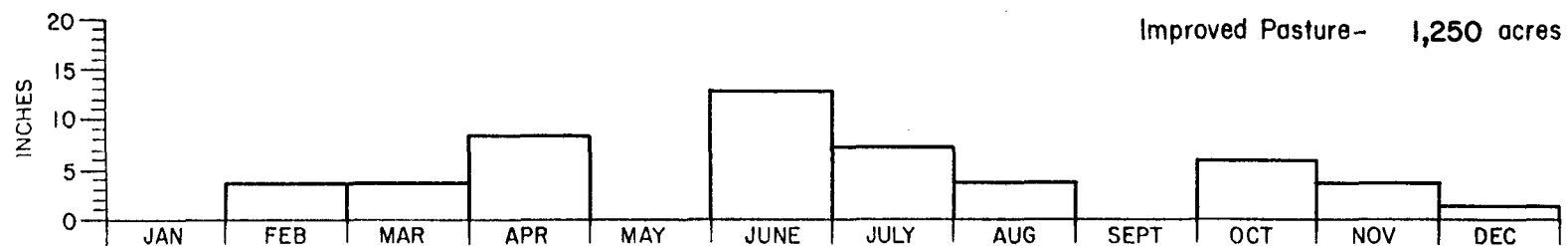
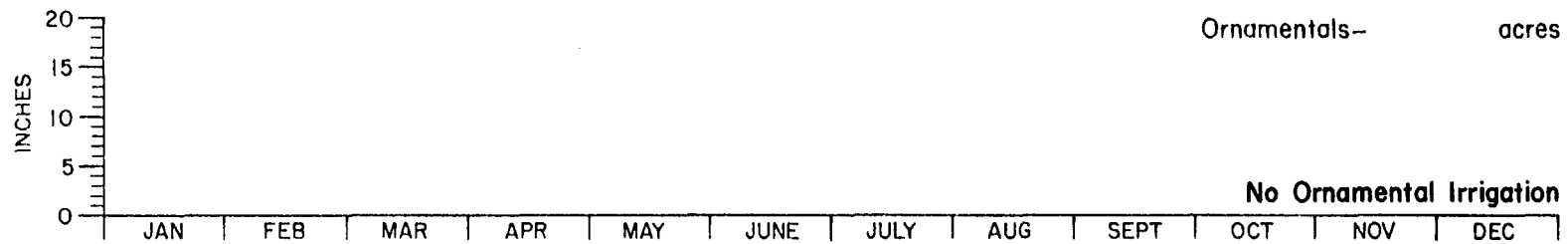
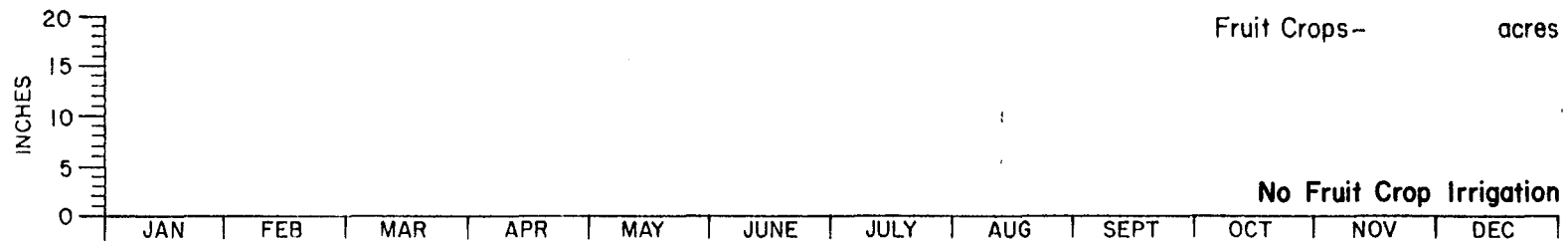
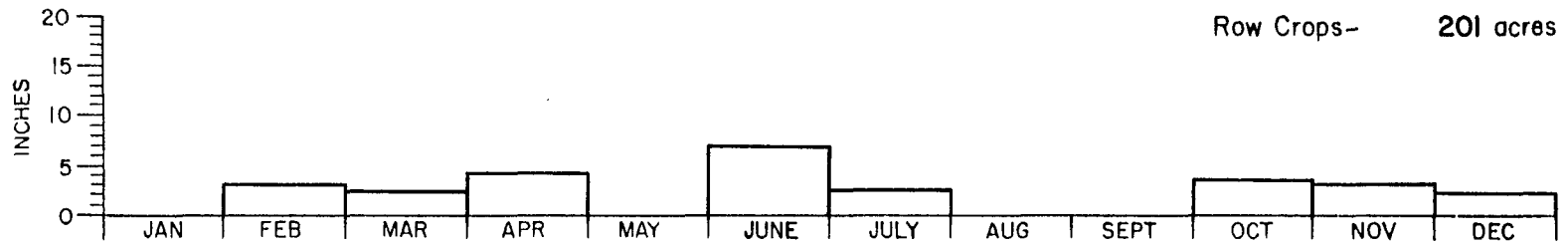


Figure 16 -- Monthly Irrigation Water Use by crop type in Osceola County for 1979

TABLE 65 LIVESTOCK WATER USE  
OSCEOLA  
1979

LIVESTOCK	USE PER ANIMAL (GPD)	NUMBER OF ANIMALS	WATER WITHDRAWN (MGD)		
			GROUND	SURFACE	TOTAL
BEEF CATTLE	12	37,950	0.00	0.45	0.45
CHICKENS	0.1	59,400	0	0.01	0.01
DAIRY CATTLE	150	660	0	0.10	0.10
DOGS	0.1	0	0	0	0
GOATS	2	83	0	0	0
HOGS	2	231	0	0	0
HORSES	12	825	0	0.01	0.01
RABBITS	0.05	0	0	0	0
SHEEP	2	165	0	0	0
TURKEYS	1	0	0	0	0
TOTAL			0.00	0.57	0.57

NOTE: A VALUE OF 0.0 MGD IS SHOWN IN THE TABLE FOR LIVESTOCK CATS WITH A WITHDRAWAL OF LESS THAN 0.01 MGD.  
 1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.  
 2. THESE FIGURES ARE BASED ON THE PERCENTAGE OF THE COUNTY WITHIN SJRWMD.

POLK COUNTY

Total Population Within District	4,147
Population served by public utility	0
Domestic self supplied population	4,147
County GPCD	170.84 (Used District Average GPCD)

Total Water Use in MGD

Ground Fresh	12.64
Surface Fresh	.62
Ground Saline	0.0
Surface Saline	0.0
Total	<u>13.26</u>

**POLK**

TABLE 66 TOTAL WATER USE

PULK COUNTY (1)

1979

WATER USE CATEGORY	WATER WITHDRAWN (MGD)							
	GROUND	FRESH SURFACE	TOTAL	GROUND	SALINE SURFACE	TOTAL	TOTAL	
PUBLIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
DOMESTIC (2)	0.71	0.0	0.71	0.0	0.0	0.0	0.71	
INSTITUTIONAL (2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
INDUSTRIAL (2)	0.01	0.0	0.01	0.0	0.0	0.0	0.01	
IRRIGATION	11.92	0.62	12.54	0.0	0.0	0.0	12.54	
LIVESTOCK	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
THERMOELECTRIC POWER GENERATION	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
HEAT PUMP-A/C (3) LAWN IRRIGATION	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	12.64	0.62	13.26	0.0	0.0	0.0	13.26	

TOTAL POPULATION ( 4,147 )

PER CAPITA USE (GPCD) 170.84 (4)

1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.
2. SELF-SUPPLIED ONLY.
3. DATA WAS NOT COLLECTED FOR THIS CATEGORY IN 1979.
4. GPCD IS BASED ON DISTRICT AVERAGE GPCD.

TABLE 67 ACRES FARMED AND IRRIGATED

FOLK COUNTY

1979

TOTAL AREA IN THE COUNTY 40,500 ACRES

CROPE	TOTAL ACRES	IRRIGATED ACRES	IRRIGATION METHODS USED (ACRES)			
			SPRINKLER	TILE SEEPAGE	FLOOD AND SEEPAGE	LOW PRESSURE- LOW VOLUME
CABBAGE	0	0	0	0	0	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	0	0	0	0	0	0
POTATOES	0	0	0	0	0	0
SWEET CORN	0	0	0	0	0	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	0	0	0	0	0	0
BLUEBERRIES	0	0	0	0	0	0
CITRUS	15,000	10,000	10,000	0	0	0
GRAPES	0	0	0	0	0	0
PEACHES	0	0	0	0	0	0
PEANUTS	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
WATERMELONS	0	0	0	0	0	0
MISC. FRUITS	0	0	0	0	0	0
FIELD CORN	0	0	0	0	0	0
SORGHUM	0	0	0	0	0	0
SOYBEANS	0	0	0	0	0	0
TOBACCO	0	0	0	0	0	0
MISC. GRAINS	0	0	0	0	0	0
FERNS	0	0	0	0	0	0
FLOWERS & FOLIAGE	0	0	0	0	0	0
IMPROVED PASTURE	4500	100	0	0	100	0
SHRUBS	0	0	0	0	0	0
SOD	0	0	0	0	0	0
TURF GRASS	0	0	0	0	0	0
<hr/>						
TOTAL	19,500	10,100	10,000	0	100	0

1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.

TABLE 68 IRRIGATION WATER USE

POLK COUNTY

1979

CROP	APPLICATION RATES			WATER WITHDRAWN				
	(ACRE INCHES/YR)			TOTAL	(MGD)			TOTAL
	SPRINKLER	SEEPAGE	LOW PRESSURE/VOL	AC-FT	GROUND	SURFACE	RE-USED	
CABBAGE	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CARROTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CUCUMBERS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
POTATOES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SWEET CORN	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
WATERCRESS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. VEGETABLES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
BLUEBERRIES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CITRUS	16.46	0.0	0.0	13717	11.6	0.6	0.0	12.2
GRAPES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PEACHES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PEANUTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PECANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
WATERMELONS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. FRUIT	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FIELD CORN	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SORGHUM	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SOYBEANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
TOBACCO	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. GRAINS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FERNS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FLOWERS & FOLIAGE	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
IMPROVED PASTURE	0.0	44.87	0.0	374	0.32	0.02	0.0	0.34
SHRUBS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SOD	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
TURF GRASS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
TOTAL	16.46	44.87	0.0	14091	11.92	0.62	0.0	12.54

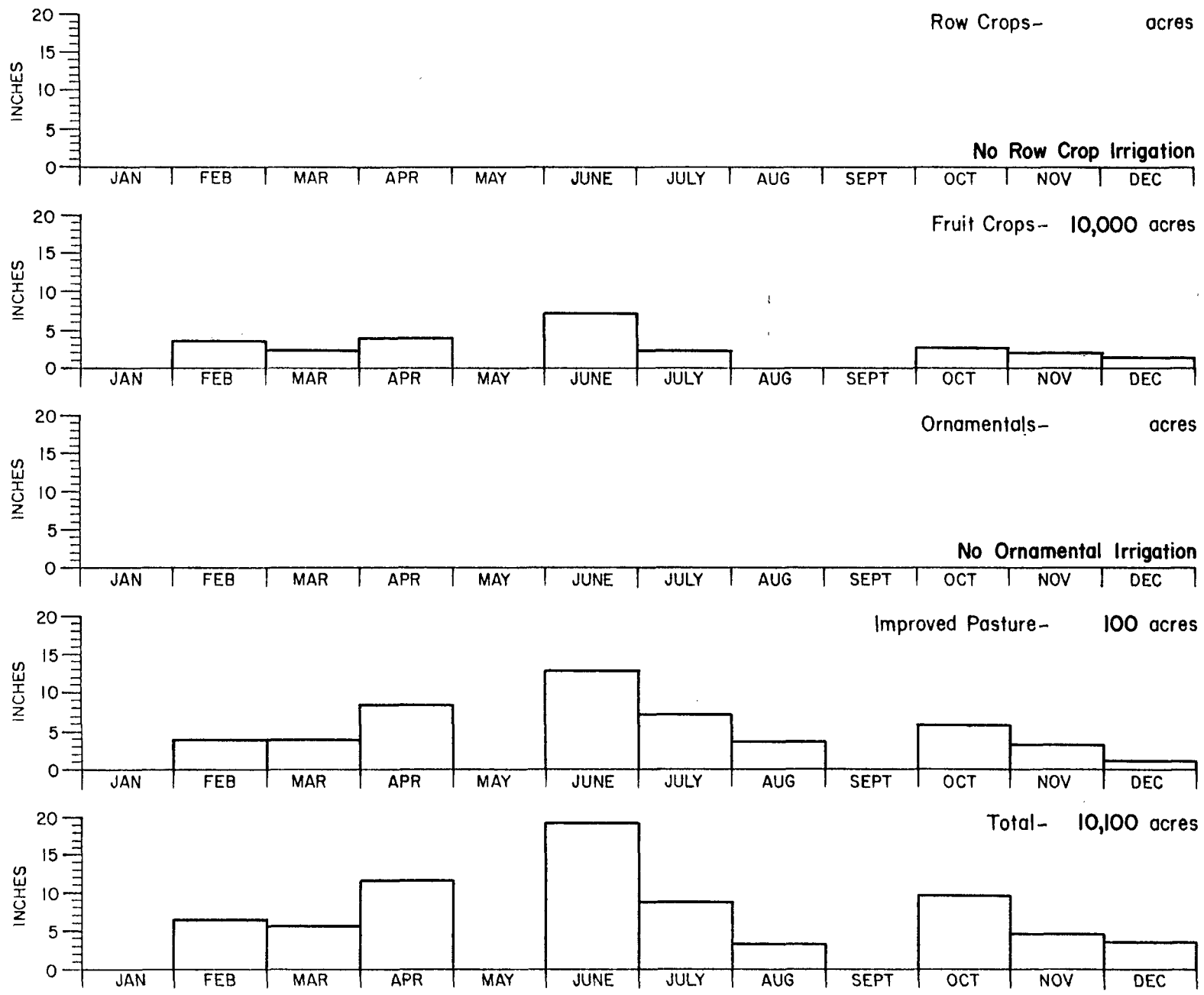


Figure 17 .-- Monthly Irrigation Water Use by crop type in Polk County for 1979

711

TABLE 69 LIVESTOCK WATER USE

FOLK

1979

LIVESTOCK	USE PER ANIMAL (GPD)	NUMBER OF ANIMALS	WATER WITHDRAWN (MGD)		TOTAL
			GROUND	SURFACE	
BEEF CATTLE	12	0	0.0	0.0	0.0
CHICKENS	0.10	0	0.0	0.0	0.0
DAIRY CATTLE	150	0	00 9	0.0	0.0
DOGS	0.10	0	0.0	0.0	0.0
GOATS	2	0	0.0	0.0	0.0
HOGS	2	0	0.0	0.0	0.0
HORSES	12	0	0.0	0.0	0.0
RABBITS	0.05	0	0.0	0.0	0.0
SHEEP	2	0	0.0	0.0	0.0
TURKEYS	1	0	0.0	0.0	0.0
TOTAL			0.0	0.0	0.0

NOTE: A VALUE OF 0.0 MGD IS SHOWN IN THE TABLE FOR LIVESTOCK CATEGORIES WITH A WITHDRAWAL OF LESS THAN 0.01 MGD.

1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.



PUTNAM COUNTY

Total Population Within District	45,693
Population served by public utility	12,000
Domestic self supplied population	33,693
County GPCD	212.50

Total Water Use in MGD

Ground Fresh	78.64
Surface Fresh	29.41
Ground Saline	0.0
Surface Saline	0.0
Total	<hr/> 108.05

**PUTNAM**

TABLE 70 TOTAL WATER USE

PUTNAM COUNTY

1979

WATER USE CATEGORY	WATER WITHDRAWN (MGD)							TOTAL
	FRESH			SALINE			TOTAL	
	GROUND	SURFACE	TOTAL	GROUND	SURFACE	TOTAL		
PUBLIC	2.55	0.0	2.55	0.0	0.0	0.0	2.55	
DOMESTIC (1)	7.16	0.0	7.16	0.0	0.0	0.0	7.16	
INSTITUTIONAL (1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
INDUSTRIAL (1)	20.5	23.14	43.64	0.0	0.0	0.0	43.64	
IRRIGATION	47.82	5.31	53.13	0.0	0.0	0.0	53.13	
LIVESTOCK	0.28	0.27	0.55	0.0	0.0	0.0	0.55	
THERMOELECTRIC (1) POWER GENERATION	0.33	0.69	1.02	0.0	0.0	0.0	1.02	
HEAT PUMP-A/C (2) LAWN IRRIGATION	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	78.64	29.41	108.05	0.0	0.0	0.0	108.05	

TOTAL POPULATION ( 45,693 )

PER CAPITA USE (GPCD) 212.5 (3)

1. SELF-SUPPLIED ONLY.
2. DATA WAS NOT COLLECTED FOR THIS CATEGORY IN 1979.
3. GPCD IS BASED ON COUNTY PUBLIC AND DOMESTIC WATER USE.

TABLE 71 ACRES FARMED AND IRRIGATED

FUTNAM COUNTY

1979

TOTAL AREA IN THE COUNTY 560,590 ACRES

CROPE	TOTAL ACRES	IRRIGATED ACRES	-----IRRIGATION METHODS USED (ACRES)-----			
			SPRINKLER	TILE SEEPAGE	FLOOD AND SEEPAGE	LOW PRESSURE- LOW VOLUME
CABBAGE	3,000	3,000	150	0	2,850	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	0	0	0	0	0	0
POTATOES	3,000	3,000	0	0	3,000	0
SWEET CORN	0	0	0	0	0	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	0	0	0	0	0	0
BLUEBERRIES	75	55	0	0	55	0
CITRUS	2,500	500	300	0	200	0
GRAPES	10	10	10	0	0	0
PEACHES	0	0	0	0	0	0
PEANUTS	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
WATERMELONS	0	0	0	0	0	0
MISC. FRUITS	0	0	0	0	0	0
FIELD CORN	3,000	1,000	0	0	1,000	0
SORGHUM	0	0	0	0	0	0
SOYBEANS	0	0	0	0	0	0
TOBACCO	0	0	0	0	0	0
MISC. GRAINS	0	0	0	0	0	0
FERNS	600	600	600	0	0	0
FLOWERS & FOLIAGE	220	220	0	0	220	0
IMPROVED PASTURE	37,000	9,500	0	0	9,500	0
SHRUBS	0	0	0	0	0	0
SOD	0	0	0	0	0	0
TURF GRASS	60	40	40	0	0	0
-----						
TOTAL	49,465	17,925	1,100	0	16,825	0

1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.

TABLE 72 IRRIGATION WATER USE

PUTNAM COUNTY

1979

CROP	APPLICATION RATES			WATER WITHDRAWN				
	(ACRE INCHES/YR)			TOTAL	(MGD)			TOTAL
	SPRINKLER	SEEPAGE	LOW PRESSURE/VOL	AC FT	GROUND	SURFACE	RE-USED	
CABBAGE	4.9	7.9	0.0	1937	1.53	0.17	0.0	1.7
CARROTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CUCUMBERS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
POTATOES	0.0	20.14	0.0	5035	4.0	0.49	0.0	4.49
SWEET CORN	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
WATERCRESS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. VEGETABLES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
BLUEBERRIES	0.0	0.0	8.0	37	0.03	0.0	0.0	0.03
CITRUS	20.18	0.0	0.0	62	0.05	0.01	0.0	0.06
GRAPES	8.0	0.0	0.0	6	0.0	0.0	0.0	0.0
PEACHES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PEANUTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PECANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
WATERMELONS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. FRUIT	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FIELD CORN	0.0	25.07	0.0	2089	1.68	0.19	0.0	1.87
SORGHUM	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SOYBEANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
TOBACCO	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. GRAINS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FERNS	65.0	0.0	0.0	3250	2.61	0.29	0.0	2.9
FLOWERS & FOLIAGE	0.0	100.0	0.0	1833	1.48	0.16	0.0	1.64
IMPROVED PASTURE	0.0	57.12	0.0	45220	36.4	4.0	0.0	40.4
SHRUBS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SOD	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
TURF GRASS	12.93	0.0	0.0	43	0.04	0.0	0.0	0.04
<b>TOTAL</b>	<b>111.01</b>	<b>210.23</b>	<b>8.0</b>	<b>59512</b>	<b>47.82</b>	<b>5.31</b>	<b>0.0</b>	<b>53.13</b>

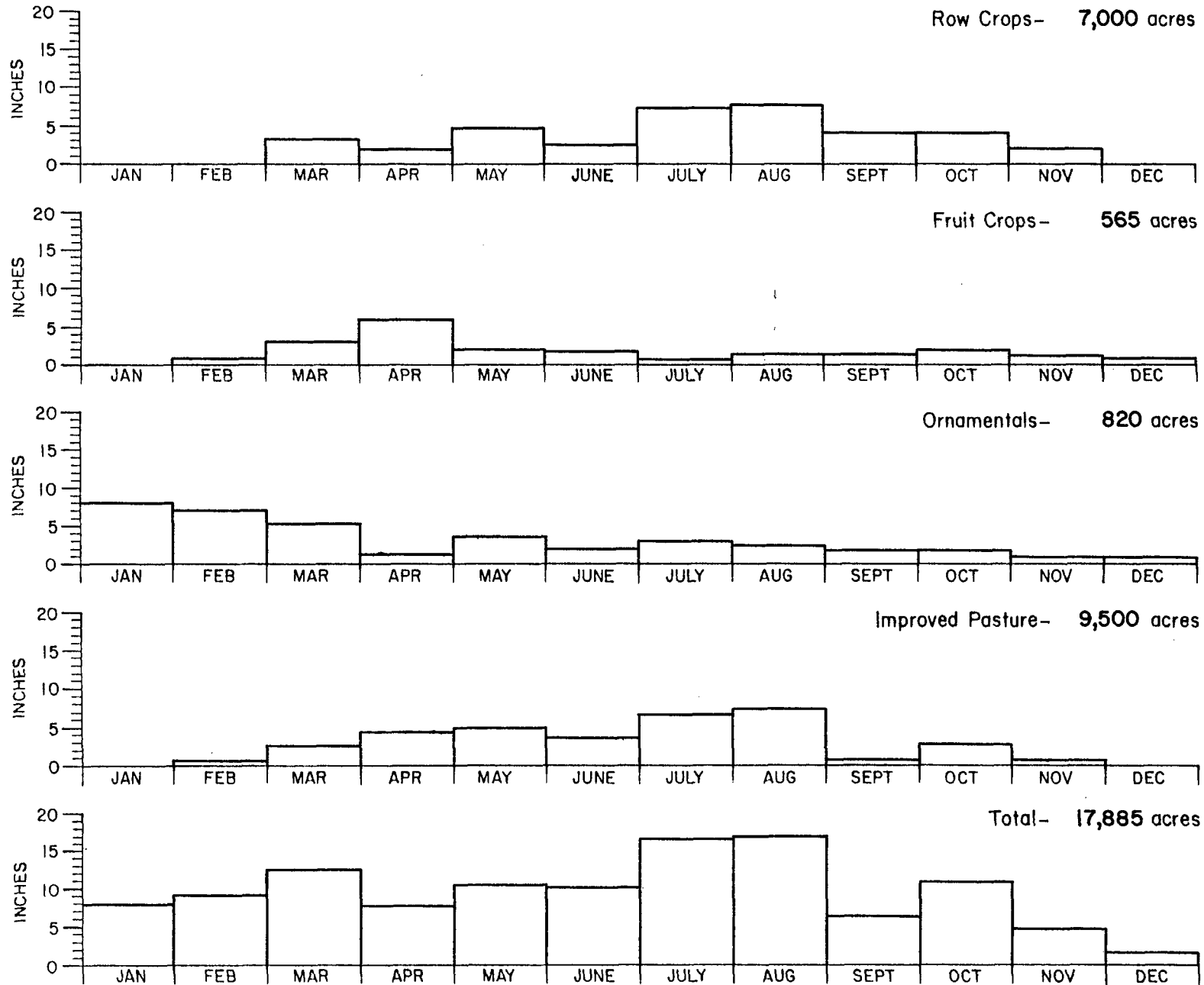


Figure 18 .-- Monthly Irrigation Water Use by crop type in Putnam County for 1979

TABLE 73 LIVESTOCK WATER USE  
 PUTNAM  
 1979

LIVESTOCK	USE PER ANIMAL (GPD)	NUMBER OF ANIMALS	WATER WITHDRAWN (MGD)		TOTAL
			GROUND	SURFACE	
BEEF CATTLE	12	15,000	0.09	0.09	0.18
CHICKENS	0.10	450,000	0.03	0.02	0.05
DAIRY CATTLE	150	1,900	0.14	0.15	0.29
DOGS	0.10	400	0.0	0.0	0.0
GOATS	2	300	0.0	0.0	0.0
HOGS	2	5,000	0.01	0.0	0.01
HORSES	12	2,000	0.01	0.01	0.02
RABBITS	0.05	0	0.0	0.0	0.0
SHEEP	2	100	0.0	0.0	0.0
TURKEYS	1	0	0.0	0.0	0.0
TOTAL			0.28	0.27	0.55

NOTE: A VALUE OF 0.0 MGD IS SHOWN IN THE TABLE FOR LIVESTOCK CATEGORIES WITH A WITHDRAWAL OF LESS THAN 0.01 MGD.  
 1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.

SEMINOLE COUNTY

Total Population Within District	156,794
Population served by public utility	111,762
Domestic self supplied population	45,032
County GPCD	168.03

Total Water Use in MGD

Ground Fresh	56.98
Surface Fresh	1.69
Ground Saline	0.0
Surface Saline	0.0
Total	<hr/> 58.67

**SEMINOLE**

TABLE 74 TOTAL WATER USE  
SEMINOLE COUNTY  
1979

WATER USE CATEGORY	WATER WITHDRAWN (MGD)							
	FRESH			SALINE			TOTAL	
	GROUND	SURFACE	TOTAL	GROUND	SURFACE	TOTAL	TOTAL	
PUBLIC	18.78	0.0	18.78	0.0	0.0	0.0	18.78	
DOMESTIC (1)	7.57	0.0	7.57	0.0	0.0	0.0	7.57	
INSTITUTIONAL (1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
INDUSTRIAL (1)	3.1	0.0	3.1	0.0	0.0	0.0	3.1	
IRRIGATION	27.35	1.59	28.94	0.0	0.0	0.0	28.94	
LIVESTOCK	0.18	0.1	0.28	0.0	0.0	0.0	0.28	
THERMOELECTRIC POWER GENERATION	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
HEAT PUMP-A/C (2) LAWN IRRIGATION	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	56.98	1.69	58.67	0.0	0.0	0.0	58.67	

TOTAL POPULATION ( 156,794 )

PER CAPITA USE (GPCD) 168.03 (3)

1. SELF-SUPPLIED ONLY.
2. DATA WAS NOT COLLECTED FOR THIS CATEGORY IN 1979.
3. GPCD IS BASED ON COUNTY PUBLIC AND DOMESTIC WATER USE.



TABLE 75 ACRES FARMED AND IRRIGATED

SEMINOLE COUNTY

1979

TOTAL AREA IN THE COUNTY 225,130 ACRES

CROP	TOTAL ACRES	IRRIGATED ACRES	IRRIGATION METHODS USED (ACRES)			
			SERINKLER	TILE SEEPAGE	FLOOD AND SEEPAGE	LOW PRESSURE-- LOW VOLUME
CABBAGE	1,600	1,600	0	1,600	0	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	1,600	1,600	0	1,600	0	0
POTATOES	0	0	0	0	0	0
SWEET CORN	40	40	0	40	0	0
WATERCRESS	100	100	0	0	100	0
MISC. VEGETABLES	960	873	0	873	0	0
BLUEBERRIES	5	5	0	5	0	0
CITRUS	6,700	4,800	4,080	288	0	432
GRAPES	0	0	0	0	0	0
PEACHES	0	0	0	0	0	0
PEANUTS	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
WATERMELONS	0	0	0	0	0	0
MISC. FRUITS	0	0	0	0	0	0
FIELD CORN	260	260	0	221	39	0
SORGHUM	0	0	0	0	0	0
SOYBEANS	100	100	0	100	0	0
TOBACCO	0	0	0	0	0	0
MISC. GRAINS	0	0	0	0	0	0
FERNS	20	20	20	0	0	0
FLOWERS & FOLIAGE	520	560	440	0	0	120
IMPROVED PASTURE	9,000	2,000	0	0	2,000	0
SHRUBS	25	25	25	0	0	0
SOD	300	300	0	0	300	0
TURF GRASS	1,008	548	548	0	0	0
<b>TOTAL</b>	<b>22,238</b>	<b>12,831</b>	<b>5,113</b>	<b>4,727</b>	<b>2,439</b>	<b>552</b>

TABLE 76 IRRIGATION WATER USE

SEMINOLE COUNTY

1979

CROP	APPLICATION RATES			WATER WITHDRAWN				
	(ACRE INCHES/YR)			TOTAL AC-FT	(MGD)			
	SPRINKLER	SEEPAGE	LOW PRESSURE/VOL		GROUND	SURFACE	RE-USED	TOTAL
CABBAGE	0.0	6.2	0.0	827	0.74	0.0	0.0	0.74
CARROTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CUCUMBERS	0.0	6.2	0.0	827	0.74	0.0	0.0	0.74
POTATOES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SWEET CORN	0.0	21.63	0.0	105	0.09	0.0	0.0	0.09
WATERCRESS	0.0	13.2	0.0	110	0.0	0.1	0.0	0.1
MISC. VEGETABLES	0.0	7.01	0.0	510	0.46	0.0	0.0	0.46
BLUEBERRIES	0.0	8.0	0.0	4	0.01	0.0	0.0	0.01
CITRUS	17.51	28.01	15.56	13347	10.73	1.19	0.0	11.92
GRAPES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PEACHES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PEANUTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PECANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
WATERMELONS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. FRUIT	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FIELD CORN	0.0	22.04	0.0	477	0.43	0.0	0.0	0.43
SORGHUM	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SOYBEANS	0.0	8.74	0.0	73	0.07	0.0	0.0	0.07
TOBACCO	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. GRAINS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FERNS	52.0	0.0	0.0	87	0.08	0.0	0.0	0.08
FLOWERS & FOLIAGE	84.69	0.0	0.0	3670	7.59	0.0	0.0	7.59
IMPROVED PASTURE	0.0	51.0	0.0	8500	3.28	0.0	0.0	3.28
SHRUBS	50.0	0.0	0.0	104	0.09	0.0	0.0	0.09
SOD	0.0	51.0	0.0	1275	1.14	0.0	0.0	1.14
TURF GRASS	54.01	0.0	0.0	2466	1.9	0.3	0.0	2.2
<b>TOTAL</b>	<b>258.21</b>	<b>223.03</b>	<b>15.56</b>	<b>32382</b>	<b>27.35</b>	<b>1.59</b>	<b>0.0</b>	<b>28.94</b>

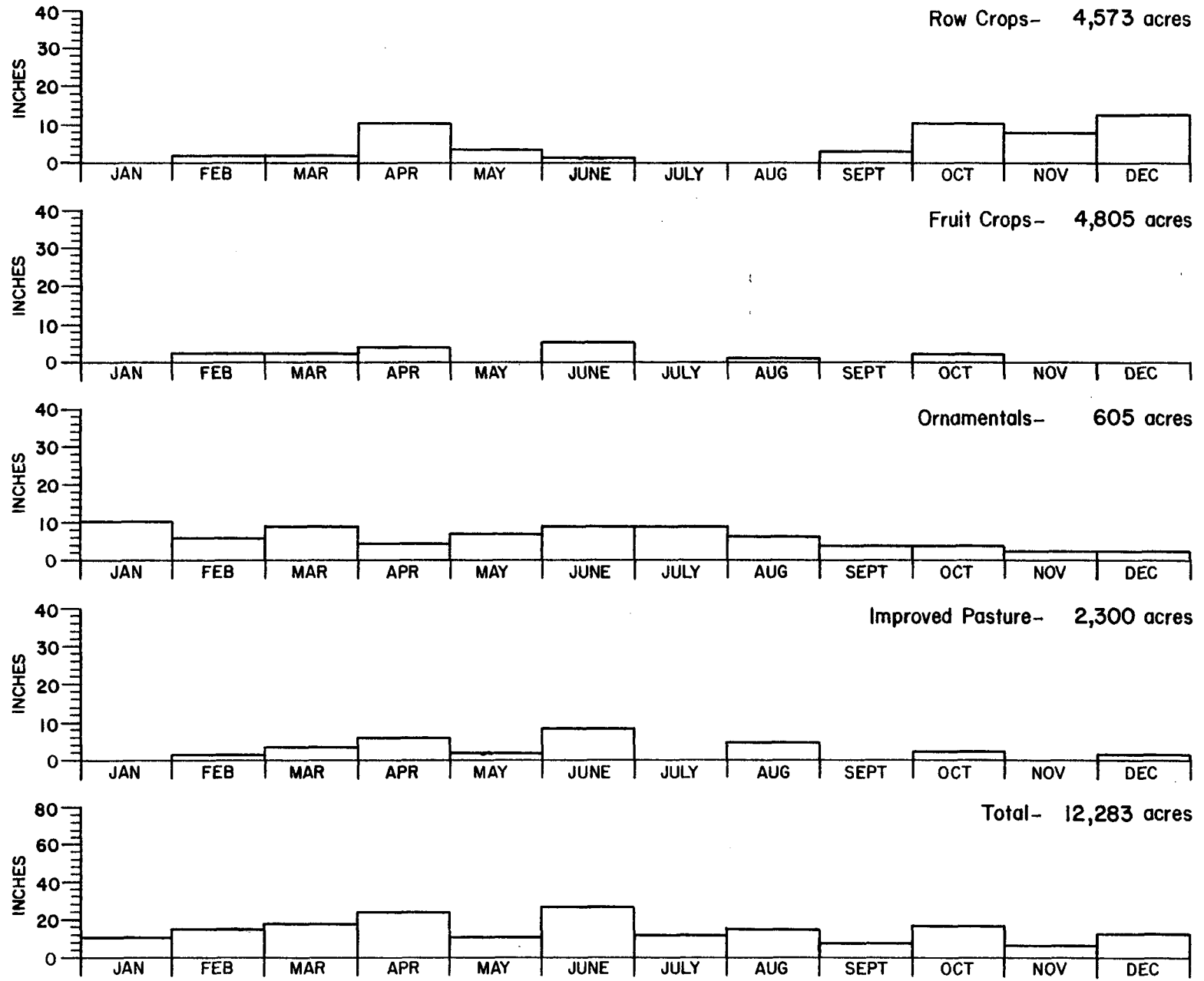


Figure 19 .-- Monthly Irrigation Water Use by crop type in Seminole County for 1979

TABLE 77 LIVESTOCK WATER USE  
 SEMINOLE  
 1979

LIVESTOCK	USE PER ANIMAL (GPD)	NUMBER OF ANIMALS	WATER WITHDRAWN (MGD)		TOTAL
			GROUND	SURFACE	
BEEF CATTLE	12	7,000	0.04	0.04	0.08
CHICKENS	0.10	200,000	0.02	0.0	0.02
DAIRY CATTLE	150	1,000	0.09	0.06	0.15
DOGS	0.10	1,000	0.0	0.0	0.0
GOATS	2	100	0.0	0.0	0.0
HOGS	2	600	0.0	0.0	0.0
HORSES	12	2,500	0.03	0.0	0.03
RABBITS	0.05	1,000	0.0	0.0	0.0
SHEEP	2	5	0.0	0.0	0.0
TURKEYS	1	0	0.0	0.0	0.0
TOTAL			0.18	0.10	0.28

NOTE: A VALUE OF 0.0 MGD IS SHOWN IN THE TABLE FOR LIVESTOCK CATEGORIES WITH A WITHDRAWAL OF LESS THAN 0.01 MGD.

ST. JOHNS COUNTY

Total Population Within District	45,961
Population served by public utility	23,388
Domestic self supplied population	22,578
County GPCD	121.0

Total Water Use in MGD

Ground Fresh	35.03
Surface Fresh	0.49
Ground Saline	0.0
Surface Saline	0.0
Total	<u>35.52</u>

ST. JOHNS

TABLE 78 TOTAL WATER USE

ST JOHNS COUNTY

1979

WATER USE CATEGORY	FRESH			SALINE			TOTAL
	GROUND	SURFACE	TOTAL	GROUND	SURFACE	TOTAL	
PUBLIC	2.83	0.0	2.83	0.0	0.0	0.0	2.83
DOMESTIC (1)	2.73	0.0	2.73	0.0	0.0	0.0	2.73
INSTITUTIONAL (1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDUSTRIAL (1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRRIGATION	29.32	0.4	29.72	0.0	0.0	0.0	29.72
LIVESTOCK	0.15	0.09	0.24	0.0	0.0	0.0	0.24
THERMOELECTRIC POWER GENERATION	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HEAT PUMP-A/C (2) LAWN IRRIGATION	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	35.03	0.49	35.52	0.0	0.0	0.0	35.52

TOTAL POPULATION ( 45,961 )

PER CAPITA USE (GPCD) 121.0 (3)

1. SELF-SUPPLIED ONLY.
2. DATA WAS NOT COLLECTED FOR THIS CATEGORY IN 1979.
3. GPCD IS BASED ON COUNTY PUBLIC AND DOMESTIC WATER USE.

TABLE 79 ACRES FARMED AND IRRIGATED

ST. JOHNS COUNTY

1979

TOTAL AREA IN THE COUNTY 426,360 ACRES

CROPE	TOTAL ACRES	IRRIGATED ACRES	IRRIGATION METHODS USED (ACRES)			
			SERINKLER	TILE SEEPAGE	FLOOD AND SEEPAGE	LOW PRESSURE- LOW VOLUME
CABBAGE	5,000	5,000	0	5,000	0	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	0	0	0	0	0	0
POTATOES	15,000	15,000	0	15,000	0	0
SWEET CORN	0	0	0	0	0	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	400	400	0	400	0	0
BLUEBERRIES	0	0	0	0	0	0
CITRUS	100	100	0	100	0	0
GRAFES	0	0	0	0	0	0
PEACHES	0	0	0	0	0	0
PEANUTS	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
WATERMELONS	0	0	0	0	0	0
MISC. FRUITS	0	0	0	0	0	0
FIELD CORN	2,000	2,000	0	2,000	0	0
SORGHUM	2,000	2,000	0	2,000	0	0
SOYBEANS	0	0	0	0	0	0
TOBACCO	0	0	0	0	0	0
MISC. GRAINS	0	0	0	0	0	0
FERNS	5	5	5	0	0	0
FLOWERS & FOLIAGE	25	25	15	10	0	0
IMPROVED PASTURE	10,500	500	0	500	0	0
SHRUBS	75	75	75	0	0	0
SOD	0	0	0	0	0	0
TURF GRASS	700	516	516	0	0	0
<b>TOTAL</b>	<b>35,805</b>	<b>25,621</b>	<b>611</b>	<b>25,010</b>	<b>0</b>	<b>0</b>

TABLE 80 IRRIGATION WATER USE

ST. JOHNS COUNTY

1979

CROP	APPLICATION RATES			WATER WITHDRAWN				
	(ACRE INCHES/YR)			TOTAL	(MGD)			TOTAL
	SPRINKLER	SEEPAGE	LOW PRESSURE/VOL	AC FT	GROUND	SURFACE	RE-USED	
CABBAGE	0.0	6.5	0.0	2708	2.4	0.0	0.0	2.4
CARROTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CUCUMBERS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
POTATOES	0.0	14.85	0.0	18563	16.6	0.0	0.0	16.6
SWEET CORN	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
WATERCRESS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. VEGETABLES	0.0	15.91	0.0	530	0.47	0.0	0.0	0.47
BLUEBERRIES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CITRUS	0.0	24.69	0.0	206	0.18	0.0	0.0	0.18
GRAPES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PEACHES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PEANUTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PECANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
WATERMELONS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. FRUIT	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FIELD CORN	0.0	25.8	0.0	4300	3.8	0.0	0.0	3.8
SORGHUM	0.0	13.8	0.0	2300	2.1	0.0	0.0	2.1
SOYBEANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
TOBACCO	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. GRAINS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FERNS	52.0	0.0	0.0	22	0.02	0.0	0.0	0.02
FLOWERS & FOLIAGE	70.0	100.0	0.0	171	0.15	0.0	0.0	0.15
IMPROVED PASTURE	0.0	46.45	0.0	1435	1.7	0.0	0.0	1.7
SHRUBS	60.0	0.0	0.0	375	0.33	0.0	0.0	0.33
SOD	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
TURF GRASS	80.31	0.0	0.0	3453	1.57	0.4	1.11	1.97
TOTAL	262.31	248.0	0.0	34063	29.32	0.4	1.11	29.72



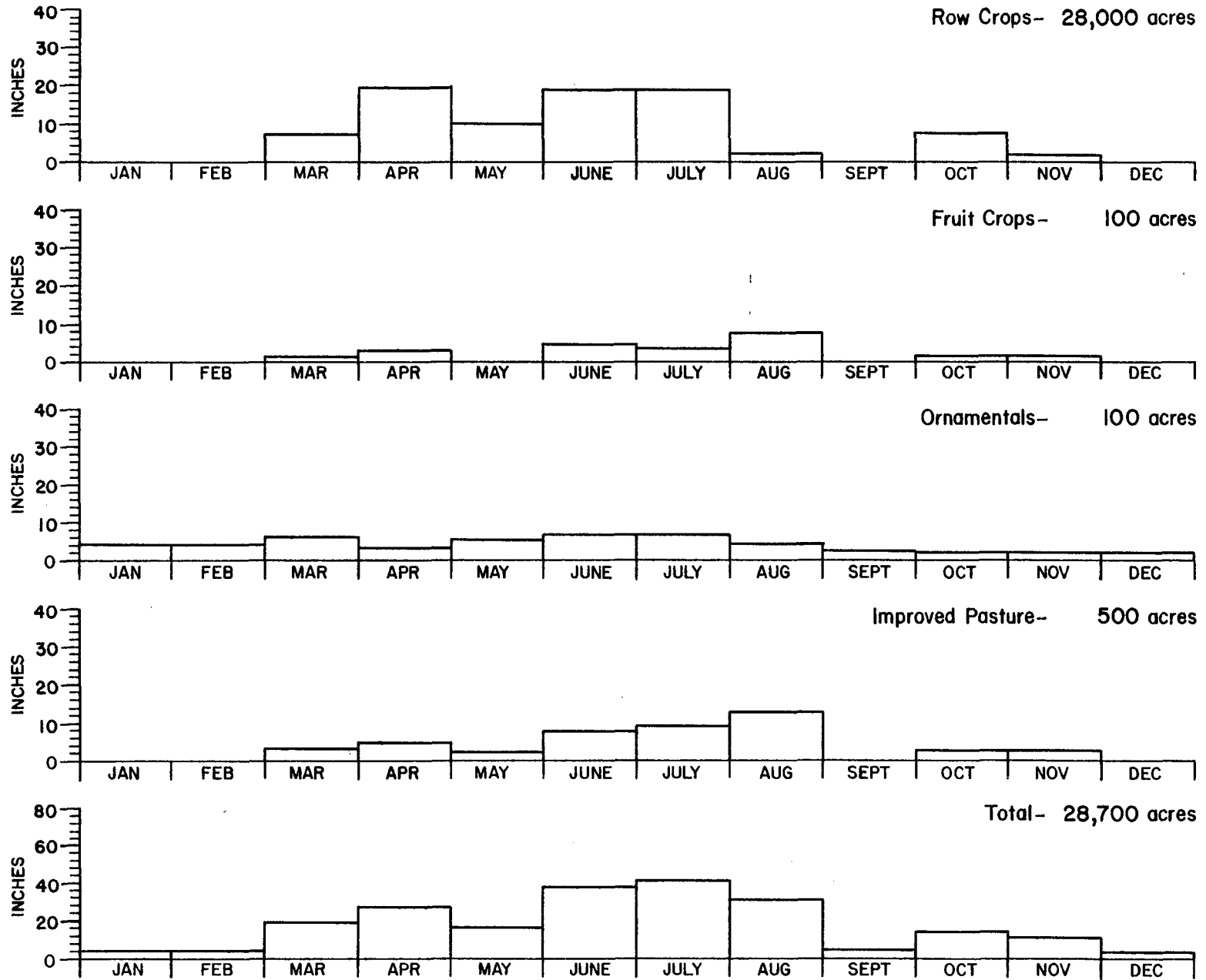


Figure 20 .-- Monthly Irrigation Water Use by crop type in St. Johns County for 1979

TABLE 81 LIVESTOCK WATER USE

ST. JOHNS

1979

LIVESTOCK	USE PER ANIMAL (GPD)	NUMBER OF ANIMALS	WATER WITHDRAWN (MGD)		
			GROUND	SURFACE	TOTAL
BEEF CATTLE	12	9,000	0.06	0.04	0.10
CHICKENS	0.10	100,000	0.01	0.0	0.01
DAIRY CATTLE	150	800	0.07	0.05	0.12
DOGS	0.10	100	0.0	0.0	0.0
GOATS	2	300	0.0	0.0	0.0
HOGS	2	2,500	0.0	0.0	0.0
HORSES	12	1,000	0.01	0.0	0.01
RABBITS	0.05	0	0.0	0.0	0.0
SHEEP	2	0	0.0	0.0	0.0
TURKEYS	1	0	0.0	0.0	0.0
TOTAL			0.15	0.09	0.24

NOTE: A VALUE OF 0.0 MGD IS SHOWN IN THE TABLE FOR LIVESTOCK CATEGORIES WITH A WITHDRAWAL OF LESS THAN 0.01 MGD.

VOLUSIA COUNTY

Total Population Within District	240,422
Population served by public utility	198,634
Domestic self supplied population	41,788
County GPCD	142.17

Total Water Use in MGD

Ground Fresh	62.05
Surface Fresh	81.9
Ground Saline	0.08
Surface Saline	15.76
Total	<u>159.79</u>

**VOLUSIA**

TABLE 82 TOTAL WATER USE

WOLUSIA COUNTY

1979

WATER USE CATEGORY	WATER WITHDRAWN (MGD)							
	GROUND	FRESH SURFACE	TOTAL	GROUND	SALINE SURFACE	TOTAL	TOTAL	
PUBLIC	28.26	0.0	28.26	0.08	0.0	0.08	28.34	
DOMESTIC (1)	5.94	0.0	5.94	0.0	0.0	0.0	5.94	
INSTITUTIONAL (1)	0.05	0.0	0.05	0.0	0.0	0.0	0.05	
INDUSTRIAL (1)	0.34	0.0	0.34	0.0	0.0	0.0	0.34	
IRRIGATION	20.89	6.21	27.1	0.0	0.0	0.0	27.1	
LIVESTOCK	0.08	0.66	0.74	0.0	0.0	0.0	0.74	
THERMOELECTRIC POWER GENERATION	0.33	75.03	75.36	0.0	15.76	15.76	91.12	
HEAT PUMP-A/C (2) LAWN IRRIGATION	6.16	0.0	6.16	0.0	0.0	0.0	6.16	
<b>TOTAL</b>	<b>62.05</b>	<b>81.9</b>	<b>143.95</b>	<b>0.08</b>	<b>15.76</b>	<b>15.84</b>	<b>159.79</b>	

TOTAL POPULATION ( 240,422 )

PER CAPITA USE (GPCD) 142.17 (3)

1. SELF-SUPPLIED ONLY.
2. USES HEAT PUMPS IN DEEP AQUIFER ( OVER 100 FT DEEP )
3. GPCD IS BASED ON COUNTY PUBLIC AND DOMESTIC WATER USE.

TABLE 83 ACRES FARMED AND IRRIGATED

VOLUSIA COUNTY

1979

TOTAL AREA IN THE COUNTY 775,970 ACRES

CROP	TOTAL ACRES	IRRIGATED ACRES	IRRIGATION METHODS USED (ACRES)			
			SPRINKLER	TILE SEEPAGE	FLOOD AND SEEPAGE	LOW PRESSURE- LOW VOLUME
CABBAGE	880	880	0	0	880	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	880	880	0	0	880	0
POTATOES	0	0	0	0	0	0
SWEET CORN	0	0	0	0	0	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	2,500	2,500	0	0	2,500	0
BLUEBERRIES	0	0	0	0	0	0
CITRUS	9,500	500	420	0	0	80
GRAPES	0	0	0	0	0	0
PEACHES	0	0	0	0	0	0
PEANUTS	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
WATERMELONS	0	0	0	0	0	0
MISC. FRUITS	0	0	0	0	0	0
FIELD CORN	0	0	0	0	0	0
SORGHUM	0	0	0	0	0	0
SOYBEANS	600	0	0	0	0	0
TOBACCO	0	0	0	0	0	0
MISC. GRAINS	0	0	0	0	0	0
FERNS	4,300	3,500	3,500	0	0	0
FLOWERS & FOLIAGE	128	128	64	0	0	64
IMPROVED PASTURE	12,600	100	0	0	100	0
SHRUBS	20	20	0	0	20	0
SOD	0	0	0	0	0	0
TURF GRASS	1,657	1,153	1,153	0	0	0
<b>TOTAL</b>	<b>33,065</b>	<b>9,661</b>	<b>5,137</b>	<b>0</b>	<b>4,380</b>	<b>144</b>

TABLE 84 IRRIGATION WATER USE

VOLUSIA COUNTY

1979

CROP	APPLICATION RATES			WATER WITHDRAWN				
	(ACRE INCHES/YR)			TOTAL	(MGD)			TOTAL
	SERINKLER	SEEPAGE	LOW PRESSURE/VOL	AC-FEET	GROUND	SURFACE	RE-USED	
CABBAGE	0.0	7.34	0.0	538	0.48	0.0	0.0	0.48
CARROTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CUCUMBERS	0.0	9.17	0.0	672	0.6	0.0	0.0	0.6
POTATOES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SWEET CORN	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
WATERCRESS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. VEGETABLES	0.0	16.82	0.0	3504	3.1	0.0	0.0	3.1
BLUEBERRIES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CITRUS	10.4	0.0	9.25	960	0.43	0.43	0.0	0.86
GRAPES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PEACHES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PEANUTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PECANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
WATERMELONS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. FRUIT	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FIELD CORN	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SORGHUM	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SOYBEANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
TOBACCO	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. GRAINS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FERNS	65.0	0.0	0.0	18958	11.8	5.1	0.0	16.9
FLOWERS & FOLIAGE	75.0	0.0	62.0	731	0.65	0.0	0.0	0.65
IMPROVED PASTURE	0.0	31.4	0.0	262	0.23	0.0	0.0	0.23
SHRUBS	0.0	0.0	50.0	83	0.07	0.0	0.0	0.07
SOD	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
TURF GRASS	49.13	0.0	0.0	4721	3.53	0.68	0.0	4.21
<b>TOTAL</b>	<b>199.53</b>	<b>64.73</b>	<b>121.25</b>	<b>30429</b>	<b>20.89</b>	<b>6.21</b>	<b>0.0</b>	<b>27.10</b>

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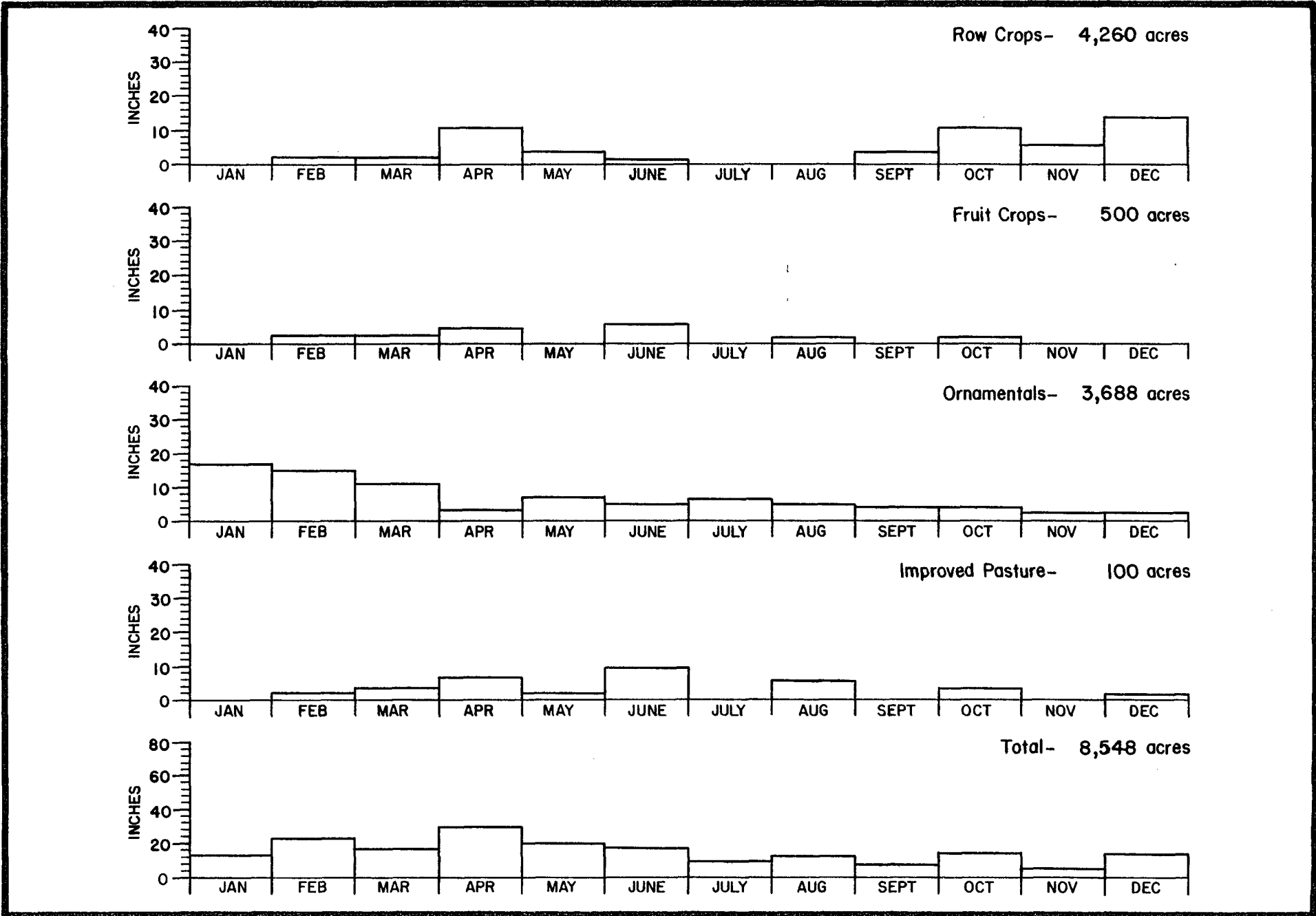


Figure 21 .-- Monthly Irrigation Water Use by crop type in Volusia County for 1979

TABLE 85 LIVESTOCK WATER USE  
VOLUSIA  
1979

LIVESTOCK	USE PER ANIMAL (GPD)	NUMBER OF ANIMALS	WATER WITHDRAWN (MGD)		TOTAL
			GROUND	SURFACE	
BEEF CATTLE	12	12,000	0.01	0.13	0.14
CHICKENS	0.10	1,950,000	0.02	0.18	0.20
DAIRY CATTLE	150	2,600	0.04	0.35	0.39
DOGS	0.10	500	0.0	0.0	0.0
GOATS	2	200	0.0	0.0	0.0
HOGS	2	1,500	0.0	0.0	0.0
HORSES	12	700	0.01	0.0	0.01
RABBITS	0.05	0	0.0	0.0	0.0
SHEEP	2	25	0.0	0.0	0.0
TURKEYS	1	0	0.0	0.0	0.0
TOTAL			0.08	0.66	0.74

NOTE: A VALUE OF 0.0 MGD IS SHOWN IN THE TABLE FOR LIVESTOCK CATEGORIES WITH A WITHDRAWAL OF LESS THAN 0.01 MGD.



## TOTAL WATER USE BY COUNTIES

Brevard and Indian River Counties use a majority of the fresh water in 1979, accounting for 26% and 17% respectively (Table 86). Rounding out the top six (6) counties are Orange 11%, Duval 9%, Lake and Volusia, both at 8%.

Four counties use over 100 MGD of fresh ground water: Brevard 438.84 MGD, Duval 162.66 MGD, Lake 138.78 MGD, Orange 129.28 MGD. Indian River 81.52 MGD and Putnam 78.64 MGD are not far below 100 MGD. These counties account for over 75% of the total ground water withdrawn.

Indian River County withdrawals 235.02 MGD and accounts for 47% of the fresh surface water used. Volusia (81.9 MGD) and Orange (76.24) account for 31% of the remaining 53% of fresh surface water, however each of these counties have at least one power plant using fresh surface water.

Only five counties use saline water in 1979. Volusia County is the only county that uses saline ground water (0.08 MGD) for public supply. All of the saline surface water is used for thermoelectric or industrial purposes.

Total water use figures which include saline water tend to be misleading due to the fact that the power plants and some industries simply "borrow" water for a short period of time. The term "borrow" meaning withdrawing large amounts of water for cooling purposes and then returning over 99% of the water back to the source. Because of this fact, most comparisons are done using total fresh water figures, however this also can be somewhat misleading because several power plants withdraw fresh surface water for cooling.

Table 87 will show the ranking of each county out of a total of 19 for each water source and a total water use ranking for 1979.

TABLE 86 TOTAL WATER USE BY COUNTY 1979

COUNTY	WATER WITHDRAWN (MGD)									
	FRESH WATER					SALINE		TOTAL WATER		
	GROUND	PERCENT	SURFACE	PERCENT	TOTAL	PERCENT	TOTAL	(MGD)	PERCENT	
ALACHUA (1)	25.73	2	2.17	0 (2)	27.9	2	0.0	27.9	0 (2)	
BAKER	3.4	0 (2)	0.59	0 (2)	3.99	0 (2)	0.0	3.99	0 (2)	
BREVARD	438.84	32	44.05	9	482.89	26	1282.15	1765.04	39	
CLAY	16.11	1	1.27	0 (2)	17.38	0 (2)	0.0	17.38	0 (2)	
DUVAL	162.66	12	2.25	0 (2)	164.91	9	1285.71	1450.62	32	
FLAGLER	10.14	0 (2)	0.23	0 (2)	10.37	0 (2)	0.0	10.37	0 (2)	
INDIAN RIVER	81.52	6	235.02	47	316.54	17	40.05	356.59	8	
LAKE (1)	138.78	10	17.9	4	156.68	8	0.0	156.68	4	
MARION (1)	32.5	2	0.86	0 (2)	33.36	2	0.0	33.36	0 (2)	
NASSAU	63.24	5	0.86	0 (2)	64.1	3	2.0	66.1	1	
OKEECHOBEE (1)	10.6	0 (2)	1.92	0 (2)	12.52	0 (2)	0.0	12.52	0 (2)	
ORANGE (1)	129.28	9	76.24	15	205.52	11	0.0	205.52	5	
OSCEOLA (1)	4.32	0 (2)	1.58	0 (2)	5.9	0 (2)	0.0	5.9	0 (2)	
POLK (1)	12.64	0 (2)	0.62	0 (2)	13.26	0 (2)	0.0	13.26	0 (2)	
PUTNAM	78.64	6	29.41	6	108.05	6	0.0	108.05	2	
SEMINOLE	56.98	4	1.69	0 (2)	58.67	3	0.0	58.67	1	
ST. JOHNS	35.03	3	0.49	0 (2)	35.52	2	0.0	35.52	0 (2)	
VOLUSIA	62.05	5	81.9	16	143.95	8	15.84	159.79	4	
DISTRICT TOTAL	1362.46		499.05		1861.51		2625.75	4487.26		

1 THESE COUNTIES ARE PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.

2 THESE VALUES ARE LESS THAN 1.0 PERCENT

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TABLE 87  
WATER USE RANKINGS

	Fresh Ground	Fresh Surface	Total Fresh	Total Saline	Total 1979
Alachua	12	8	12		12
Baker	18	16	18		18
Bradford	19	19	19		19
Brevard	1	4	1	2	1
Clay	13	12	13		13
Duval	2	7	4	1	2
Flagler	15	18	16		16
Indian River	5	1	2	3	3
Lake	3	6	5		6
Marion	11	13	11		11
Nassau	7	14	8	5	8
Okeechobee	16	9	15		15
Orange	4	3	3		4
Osceola	17	11	17		17
Polk	14	15	14		14
Putnam	6	5	7		7
Seminole	9	10	9		9
St. Johns	10	17	10		10
Volusia	8	2	6	4	5

1 - Highest ranking, most water used.

19 - Lowest ranking, least water used.

Insert

Tab

III



TABLE A-1 TOTAL FRESH WATER USE BY COUNTY 1979-1978

COUNTY	1979 TOTAL (MGD)				1978 TOTAL (MGD)			
	GROUND	SURFACE	TOTAL	PERCENT	GROUND	SURFACE	TOTAL	PERCENT
ALACHUA (1)	25.73	2.17	27.9	2	29.38	2.43	31.81	2
BAKER	3.4	0.59	3.99	0 (2)	2.69	1.01	3.7	0 (2)
BRADFORD	0.0	0.0	0.0	0	2.18	0.0	2.18	0 (2)
BREVARD (3)	438.84	44.05	482.89	26	133.27	15.21	148.48	10
CLAY	16.11	1.27	17.38	0 (2)	12.01	1.29	13.3	0 (2)
DUVAL	162.66	2.25	164.91	9	126.0	20.65	146.65	10
FLAGLER	10.14	0.23	10.37	0 (2)	4.3	0.05	4.35	0 (2)
INDIAN RIVER	81.52	235.02	316.54	17	62.34	165.8	228.14	15
LAKE (1)	138.78	17.9	156.68	8	117.67	28.69	146.36	10
MARION (1)	32.5	0.86	33.36	2	29.98	1.03	31.01	2
NASSAU	63.24	0.86	64.1	3	65.59	1.43	67.02	5
OKEECHOBEE (1)	10.6	1.92	12.52	0 (2)	6.82	1.26	8.08	0 (2)
ORANGE (1)	129.28	76.24	205.52	11	123.89	27.64	151.53	10
OSCEOLA (1)	4.32	1.58	5.9	0 (2)	2.58	0.99	3.57	0 (2)
POLK (1)	12.64	0.62	13.26	0 (2)	13.42	0.7	14.12	0 (2)
PUTNAM	78.64	29.41	108.05	6	51.33	24.38	75.71	5
SEMINOLE	56.98	1.69	58.67	3	44.67	0.92	45.59	3
ST. JOHNS	35.03	0.49	35.52	2	28.63	0.09	28.72	2
VOLUSIA (3)	62.05	81.9	143.95	8	44.53	289.09	333.62	23
DISTRICT TOTAL (3)	1362.46	499.05	1861.61		901.32	582.67	1483.99	

- 1 THESE COUNTIES ARE PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.
- 2 HAS A VALUE OF LESS THAN 1.0 PERCENT.
- 3 1978 TOTAL DOES NOT INCLUDE ANY HEAT PUMP/AC WITHDRAW FIGURES, HOWEVER THE 1979 FIGURES DO INCLUDE THESE VALUES.

TABLE A-2 TOTAL WATER USE

ALACHUA

1978

WATER USE CATEGORY	WATER WITHDRAWN (MGD)					
	FRESH			SALINE		
	GROUND	SURFACE	TOTAL	SURFACE	TOTAL	
PUBLIC	16.33	0.0	16.33	0.0	16.33	
DOMESTIC	4.10	0.0	4.10	0.0	4.10	
INDUSTRIAL	0.68	0.10	0.78	0.0	0.78	
IRRIGATION	7.91	1.97	9.88	0.0	9.88	
LIVESTOCK	0.36	0.36	0.72	0.0	0.72	
THERMOELECTRIC POWER	0.0	0.0	0.0	0.0	0.0	
TOTAL	29.38	2.43	31.81	0.0	31.81	

TOTAL POPULATION (THOUSANDS) 115.6

TOTAL PER CAPITA USE (GPD) 275.2

1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.
2. SELF-SUPPLIED ONLY.

TABLE A-3 TOTAL WATER USE

BAKER

1978

WATER USE CATEGORY	WATER WITHDRAWN (MGD)				
	GROUND	FRESH SURFACE	TOTAL	SALINE SURFACE	TOTAL
PUBLIC	0.55	0.0	0.55	0.0	0.55
DOMESTIC	1.01	0.0	1.01	0.0	1.01
INDUSTRIAL	0.30	0.0	0.30	0.0	0.30
IRRIGATION	0.44	0.44	0.88	0.0	0.88
LIVESTOCK	0.39	0.57	0.96	0.0	0.96
THERMOELECTRIC POWER	0.0	0.0	0.0	0.0	0.0
TOTAL	2.69	1.01	3.70	0.0	3.70

TOTAL POPULATION (THOUSANDS) 12.4

TOTAL PER CAPITA USE (GPD) 298.4

1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.
2. SELF-SUPPLIED ONLY.



TABLE A-4 TOTAL WATER USE

BRADFORD

1978

WATER USE CATEGORY	WATER WITHDRAWN (MGD)					
	FRESH			SALINE		
	GROUND	SURFACE	TOTAL	SURFACE	TOTAL	
PUBLIC	0.0	0.0	0.0	0.0	0.0	
DOMESTIC	0.02	0.0	0.02	0.0	0.02	
INDUSTRIAL	2.16	0.0	2.16	0.0	2.16	
IRRIGATION	0.0	0.0	0.0	0.0	0.0	
LIVESTOCK	0.0	0.0	0.0	0.0	0.0	
THERMOELECTRIC POWER	0.0	0.0	0.0	0.0	0.0	
TOTAL	2.18	0.0	2.18	0.0	2.18	

TOTAL POPULATION (THOUSANDS) 0.2

TOTAL PER CAPITA USE (GPD) 10,900

1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.
2. SELF-SUPPLIED ONLY.

TABLE A-5 TOTAL WATER USE

BREVARD

1978

WATER USE CATEGORY	WATER WITHDRAWN (MGD)				
	GROUND	FRESH		SALINE	
		SURFACE	TOTAL	SURFACE	TOTAL
PUBLIC	5.38	9.46	14.84	0.0	14.84
DOMESTIC	4.42	0.0	4.42	0.0	4.42
INDUSTRIAL	0.24	0.0	0.24	0.0	0.24
IRRIGATION	122.61	5.38	127.99	0.0	127.99
LIVESTOCK	0.52	0.37	0.89	0.0	0.89
THERMOELECTRIC POWER	0.10	0.0	0.10	1,457.00	1,457.10
TOTAL	133.27	15.21	148.48	1,457.00	1,605.48

TOTAL POPULATION (THOUSANDS) 264.3

TOTAL PER CAPITA USE 6,074.5

1. SELF-SUPPLIED ONLY.

TABLE A-6 TOTAL WATER USE

CLAY

1978

WATER USE CATEGORY	WATER WITHDRAWN (MGD)					
	FRESH			SALINE		
	GROUND	SURFACE	TOTAL	SURFACE	TOTAL	TOTAL
PUBLIC	1.68	0.0	1.68	0.0		1.68
DOMESTIC	5.08	0.0	5.08	0.0		5.08
INDUSTRIAL	3.20	0.0	3.20	0.0		3.20
IRRIGATION	0.80	0.04	0.84	0.0		0.84
LIVESTOCK	1.25	1.25	2.50	0.0		2.50
THERMOELECTRIC POWER	0.0	0.0	0.0	0.0		0.0
TOTAL	12.01	1.29	13.30	0.0		13.30

TOTAL POPULATION (THOUSANDS) 54.3

TOTAL PER CAPITA USE (GPD) 244.9

1. SELF-SUPPLIED ONLY.

TABLE A-7 TOTAL WATER USE

DUVAL

1978

WATER USE CATEGORY	WATER WITHDRAWN (MGD)				
	GROUND	FRESH SURFACE	TOTAL	SALINE SURFACE	TOTAL
PUBLIC	59.56	0.0	59.56	0.0	59.56
DOMESTIC	23.04	0.0	23.04	0.0	23.04
INDUSTRIAL	42.98	19.00	61.98	43.00	104.98
IRRIGATION	0.04	0.09	0.13	0.0	0.13
LIVESTOCK	0.38	1.56	1.94	0.0	1.94
THERMOELECTRIC POWER	0.0	0.0	0.0	1,225.00	1,225.00
TOTAL	126.00	20.65	146.65	1,268.00	1,414.65

TOTAL POPULATION (THOUSANDS) 574.0

TOTAL PER CAPITA USE (GPD) 2,464.5

1. SELF-SUPPLIED ONLY.

TABLE A-8 TOTAL WATER USE

FLAGLER

1978

WATER USE CATEGORY	WATER WITHDRAWN (MGD)				
	GROUND	FRESH SURFACE	TOTAL	SALINE SURFACE	TOTAL
PUBLIC	0.52	0.0	0.52	0.0	0.52
DOMESTIC	0.57	0.0	0.57	0.0	0.57
INDUSTRIAL	0.0	0.0	0.0	0.0	0.0
IRRIGATION	3.14	0.0	3.14	0.0	3.14
LIVESTOCK	0.07	0.05	0.12	0.0	0.12
THERMOELECTRIC POWER	0.0	0.0	0.0	0.0	0.0
TOTAL	4.30	0.05	4.35	0.0	4.35

TOTAL POPULATION (THOUSANDS) 8.4

TOTAL PER CAPITA USE (GPD) 517.8

1. SELF-SUPPLIED ONLY.

TABLE A-9 TOTAL WATER USE

INDIAN RIVER

1978

WATER USE CATEGORY	WATER WITHDRAWN (MGD)				
	GROUND	FRESH SURFACE	TOTAL	SALINE SURFACE	TOTAL
PUBLIC	6.98	0.0	6.98	0.0	6.98
DOMESTIC	3.25	0.0	3.25	0.0	3.25
INDUSTRIAL	1.05	0.0	1.05	0.0	1.05
IRRIGATION	49.46	165.39	214.85	0.0	214.85
LIVESTOCK	0.10	0.41	0.51	0.0	0.51
THERMOELECTRIC POWER	1.50	0.0	1.50	66.00	67.50
TOTAL	62.34	165.80	228.14	66.00	294.14

TOTAL POPULATION (THOUSANDS) 52.3

TOTAL PER CAPITA USE (GPD) 5,624.1

1. SELF-SUPPLIED ONLY.

TABLE A-10 TOTAL WATER USE

LAKE

1978

WATER USE CATEGORY	WATER WITHDRAWN (MGD)				
	GROUND	FRESH SURFACE	TOTAL	SALINE SURFACE	TOTAL
PUBLIC	10.91	0.0	10.91	0.0	10.91
DOMESTIC	3.91	0.0	3.91	0.0	3.91
INDUSTRIAL	17.47	0.0	17.47	0.0	17.47
IRRIGATION	85.01	28.33	113.34	0.0	113.34
LIVESTOCK	0.37	0.36	0.73	0.0	0.73
THERMOELECTRIC POWER	0.0	0.0	0.0	0.0	0.0
TOTAL	117.67	28.69	146.36	0.0	146.36

TOTAL POPULATION (THOUSANDS) 90.5

TOTAL PER CAPITA USE (GPD) 1,617.2

1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.
2. SELF-SUPPLIED ONLY.

TABLE A-II TOTAL WATER USE

MARION

1978

WATER USE CATEGORY	WATER WITHDRAWN (MGD)				
	GROUND	FRESH SURFACE	TOTAL	SALINE SURFACE	TOTAL
PUBLIC	5.07	0.0	5.07	0.0	5.07
DOMESTIC	4.62	0.0	4.62	0.0	4.62
INDUSTRIAL	0.91	0.0	0.91	0.0	0.91
IRRIGATION	18.22	0.97	19.19	0.0	19.19
LIVESTOCK	1.16	0.06	1.22	0.0	1.20
THERMOELECTRIC POWER	0.0	0.0	0.0	0.0	0.0
TOTAL	29.98	1.03	31.01	0.0	31.01

TOTAL POPULATION (THOUSANDS) 77.0

TOTAL PER CAPITA USE (GPD) 402.7

1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.

2. SELF-SUPPLIED ONLY.



TABLE A-12 TOTAL WATER USE

NASSAU

1978

WATER USE CATEGORY	WATER WITHDRAWN (MGD)				
	GROUND	FRESH SURFACE	TOTAL	SALINE SURFACE	TOTAL
PUBLIC	2.54	0.0	2.54	0.0	2.54
DOMESTIC	2.58	0.0	2.58	0.0	2.58
INDUSTRIAL	58.89	0.0	58.89	2.00	60.89
IRRIGATION	0.15	0.0	0.15	0.0	0.15
LIVESTOCK	1.43	1.43	2.86	0.0	2.86
THERMOELECTRIC POWER	0.0	0.0	0.0	0.0	0.0
TOTAL	65.59	1.43	67.02	2.00	69.02

TOTAL POPULATION (THOUSANDS) 31.7

TOTAL PER CAPITA USE (GPD) 2,177.3

1. SELF-SUPPLIED ONLY.

TABLE A-13 TOTAL WATER USE

OKEECHOBEE

1978

WATER USE CATEGORY	WATER WITHDRAWN (MGD)				
	GROUND	FRESH SURFACE	TOTAL	SALINE SURFACE	TOTAL
PUBLIC	0.0	0.0	0.0	0.0	0.0
DOMESTIC	0.02	0.0	0.02	0.0	0.02
INDUSTRIAL	0.0	0.0	0.0	0.0	0.0
IRRIGATION	6.22	1.01	7.23	0.0	7.23
LIVESTOCK	0.58	0.25	0.83	0.0	0.83
THERMOELECTRIC POWER	0.0	0.0	0.0	0.0	0.0
TOTAL	6.82	1.26	8.08	0.0	8.08

TOTAL POPULATION (THOUSANDS) 0.2      TOTAL PER CAPITA USE (GPD) 40,400.0

1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.
2. SELF-SUPPLIED ONLY.

TABLE A-14 TOTAL WATER USE

ORANGE

1978

WATER USE CATEGORY	WATER WITHDRAWN (MGD)				
	FRESH			SALINE	
	GROUND	SURFACE	TOTAL	SURFACE	TOTAL
PUBLIC	69.16	0.0	69.16	0.0	69.16
DOMESTIC	3.14	0.0	3.14	0.0	3.14
INDUSTRIAL	7.52	0.0	7.52	0.0	7.52
IRRIGATION	43.67	4.63	48.30	0.0	48.30
LIVESTOCK	0.40	0.41	0.81	0.0	0.81
THERMOELECTRIC POWER	0.0	22.60	22.60	0.0	22.60
TOTAL	123.89	27.64	151.53	0.0	151.53

TOTAL POPULATION (THOUSANDS) 335.9      TOTAL PER CAPITA USE (GPD) 451.1

1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.
2. SELF-SUPPLIED ONLY.

TABLE A-15 TOTAL WATER USE

OSCEOLA

1978

WATER USE CATEGORY	WATER WITHDRAWN (MGD)				
	GROUND	FRESH SURFACE	TOTAL	SALINE SURFACE	TOTAL
PUBLIC	0.0	0.0	0.0	0.0	0.0
DOMESTIC	0.10	0.0	0.10	0.0	0.10
INDUSTRIAL	0.0	0.0	0.0	0.0	0.0
IRRIGATION	2.46	0.31	2.77	0.0	2.77
LIVESTOCK	0.02	0.68	0.70	0.0	0.70
THERMOELECTRIC POWER	0.0	0.0	0.0	0.0	0.0
TOTAL	2.58	0.99	3.57	0.0	3.57

TOTAL POPULATION (THOUSANDS) 0.8

TOTAL PER CAPITA USE (GPD) 5,337.5

1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.
2. SELF-SUPPLIED ONLY.

TABLE A-16 TOTAL WATER USE

FOLK

1978

WATER USE CATEGORY	WATER WITHDRAWN (MGD)				TOTAL
	GROUND	FRESH SURFACE	TOTAL	SALINE SURFACE	
PUBLIC	0.0	0.0	0.0	0.0	0.0
DOMESTIC	0.04	0.0	0.04	0.0	0.04
INDUSTRIAL	0.0	0.0	0.0	0.0	0.0
IRRIGATION	13.38	0.70	14.08	0.0	14.08
LIVESTOCK	0.0	0.0	0.0	0.0	0.0
THERMOELECTRIC POWER	0.0	0.0	0.0	0.0	0.0
TOTAL	13.42	0.70	14.12	0.0	14.12

TOTAL POPULATION (THOUSANDS) 2.8

TOTAL PER CAPITA USE (GPD) 5,042.8

1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.
2. SELF-SUPPLIED ONLY.

TABLE A-17 TOTAL WATER USE

PUTNAM

1978

WATER USE CATEGORY	WATER WITHDRAWN (MGD)				
	GROUND	FRESH SURFACE	TOTAL	SALINE SURFACE	TOTAL
PUBLIC	2.50	0.0	2.50	0.0	2.50
DOMESTIC	3.96	0.0	3.96	0.0	3.96
INDUSTRIAL	19.23	21.00	40.23	0.0	40.23
IRRIGATION	25.20	2.80	28.00	0.0	28.00
LIVESTOCK	0.27	0.25	0.52	0.0	0.52
THERMOELECTRIC POWER	0.17	0.33	0.50	0.0	0.50
TOTAL	51.33	24.38	75.71	0.0	75.71

TOTAL POPULATION (THOUSANDS) 44.6

TOTAL PER CAPITA USE (GPD) 1,704.9

1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.
2. SELF-SUPPLIED ONLY.

TABLE A-18 TOTAL WATER USE

SEMINOLE

1978

WATER USE CATEGORY	WATER WITHDRAWN (MGD)				
	FRESH			SALINE	
	GROUND	SURFACE	TOTAL	SURFACE	TOTAL
PUBLIC	13.98	0.0	13.98	0.0	13.98
DOMESTIC	8.54	0.0	8.54	0.0	8.54
INDUSTRIAL	3.77	0.0	3.77	0.0	3.77
IRRIGATION	18.18	0.81	18.99	0.0	18.99
LIVESTOCK	0.20	0.11	0.31	0.0	0.31
THERMOELECTRIC POWER	0.0	0.0	0.0	0.0	0.0
TOTAL	44.67	0.92	45.59	0.0	45.59

TOTAL POPULATION (THOUSANDS) 149.8

TOTAL PER CAPITA USE (GPD) 304.3

1. SELF-SUPPLIED ONLY.

TABLE A-19 TOTAL WATER USE

ST. JOHNS

1978

WATER USE CATEGORY	WATER WITHDRAWN (MGD)				
	GROUND	FRESH		SALINE	
		SURFACE	TOTAL	SURFACE	TOTAL
PUBLIC	2.73	0.0	2.73	0.0	2.73
DOMESTIC	2.94	0.0	2.94	0.0	2.94
INDUSTRIAL	0.0	0.0	0.0	0.0	0.0
IRRIGATION	22.81	0.0	22.81	0.0	22.81
LIVESTOCK	0.15	0.09	0.24	0.0	0.24
THERMOELECTRIC POWER	0.0	0.0	0.0	0.0	0.0
TOTAL	28.63	0.09	28.72	0.0	28.72

TOTAL POPULATION (THOUSANDS) 44.6

TOTAL PER CAPITA USE (GPD) 638.8

1. SELF-SUPPLIED ONLY.



TABLE A-20 TOTAL WATER USE

VOLUSIA

1978

WATER USE CATEGORY	WATER WITHDRAWN (MGD)				
	GROUND	FRESH SURFACE	TOTAL	SALINE SURFACE	TOTAL
PUBLIC	26.49	0.0	26.49	0.0	26.49
DOMESTIC	3.94	0.0	3.94	0.0	3.94
INDUSTRIAL	0.31	0.0	0.31	0.0	0.31
IRRIGATION	13.39	4.65	18.04	0.0	18.04
LIVESTOCK	0.08	0.67	0.75	0.0	0.75
THERMOELECTRIC POWER	0.32	283.77	239.09	0.0	239.09
TOTAL	44.53	289.09	333.62	0.0	333.62

TOTAL POPULATION (THOUSANDS) 229.3

TOTAL PER CAPITA USE (GPD) 1,454.9

1. SELF-SUPPLIED ONLY.