

TECHNICAL PUBLICATION SJ 86-5
ANNUAL WATER USE SURVEY: 1985

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INTRODUCTION

Water use data is collected annually for the 19 counties within the St. Johns River Water Management District (Figure 1). This data has been published annually by the District since 1978. This report summarizes water use in the St. Johns River Water Management District (SJRWMD) for 1985.

Water use figures are in million gallons per day (MGD). Water use is shown for fresh ground and surface water sources along with total fresh water use. Reclaimed water use (reuse) is also presented in this report. Water use is compiled for the following categories: public supply; domestic self-supplied; industrial self-supplied (including institutional/recreational self-supplied); agricultural irrigation (including livestock use); thermoelectric power generation; heat pump/air conditioning; and free-flowing wells. Water use is compiled for all of the following counties: Brevard, Clay, Duval, Flagler, Indian River, Nassau, Putnam, Seminole, St. Johns, and Volusia. Water use is also compiled for those portions of Alachua, Baker, Bradford, Lake, Marion, Okeechobee, Orange, Osceola, and Polk Counties which lie within District boundaries.

In addition to this report, a supplemental report with detailed pumpage data is available. The supplemental report shows pumpage for individual public suppliers, industries, institutions, and thermoelectric power plants. Pumpage data is shown in million gallons per month as well as total million gallons and MGD. This detailed report (Technical Publication SJ 86-5: Supplemental Data)

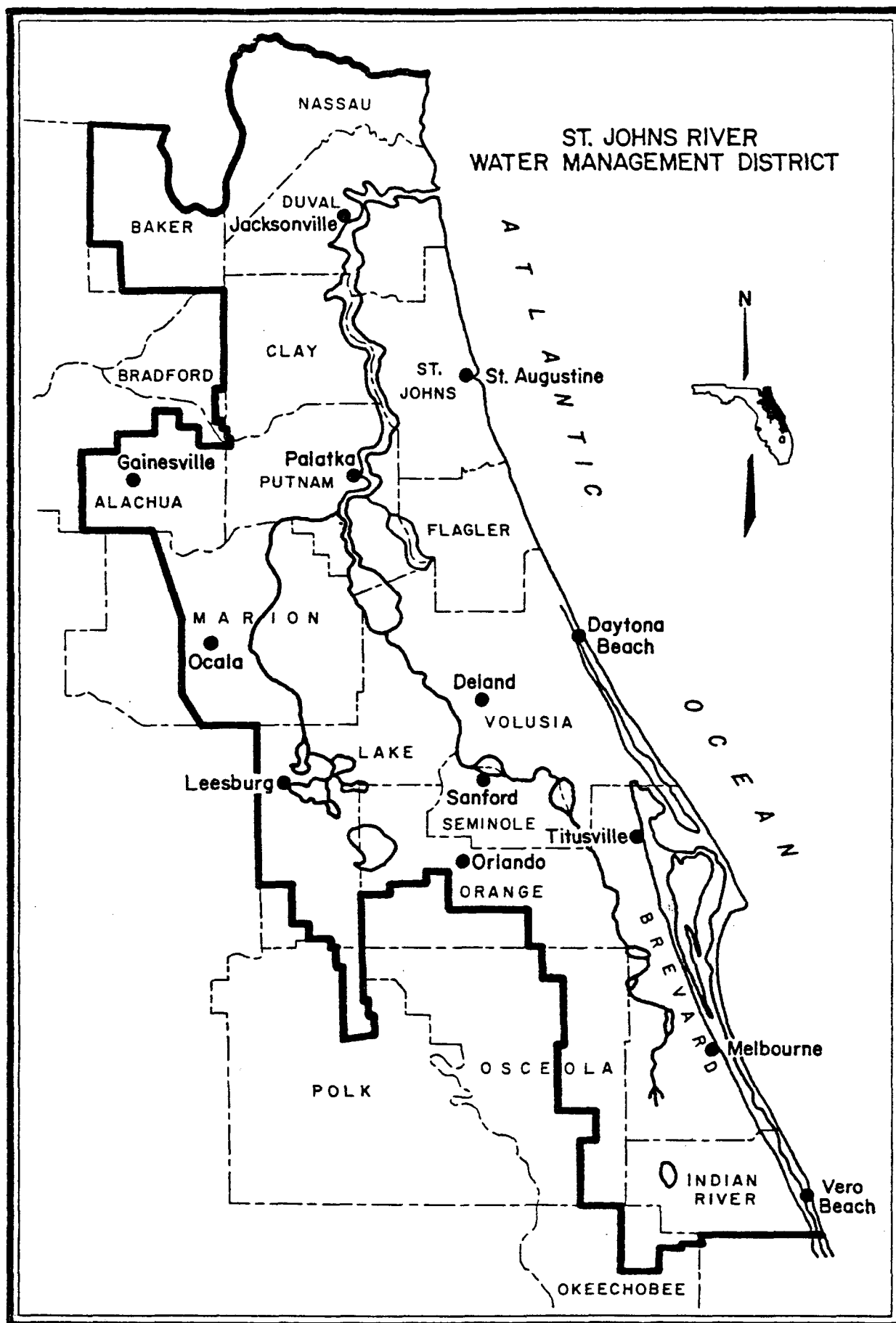


FIGURE 1 . St. Johns River Water Management District

is available through the Department of Water Resources of the St. Johns River Water Management District.

Data for public supplies (177), self-supplied industries (50), institutions (28), and thermoelectric power plants (11) is collected by the SJRWMD. Agricultural water use is estimated by utilizing the modified Blaney-Criddle irrigation computer model,⁽¹⁾ the University of Florida "AFSIRS" program,⁽²⁾ and SJRWMD Benchmark Farms program data in combination with the crop data supplied by the Institute of Food and Agricultural Sciences (IFAS), the USDA Soil Conservation Service (SCS), the USDA Agricultural Stabilization and Conservation Service (ASCS), and the SJRWMD consumptive use permit files (CUP). The heat pump/air conditioning figures are calculated from the Brevard County well inventory list 1975-77, the Volusia County Vol-Data File (USGS 11/20/80), conversations with Heating Ventilation Air Conditioner (HVAC) dealers in Putnam County and the District CUP files. Residential use for this category is calculated for only three counties: Brevard, Volusia, and Putnam. Data for the remaining 16 counties is presently being inventoried. Non-residential use (industrial and commercial) was collected through the CUP files for all counties. Data for the free-flowing well inventory is collected by the District as part of its compliance with the requirements of the Florida Water Quality Assurance Act of 1983.

- (1) SCS Technical Release No. 21, "Irrigation Water Requirements"
- (2) AFSIRS - Agricultural Field Scale Irrigation Requirement Simulation Model.

WATER USE BY CATEGORY

Public Supply

The total fresh water use for public supply in 1985 amounted to 359.42 MGD, of which 345.33 MGD (96%) was ground water and 14.09 MGD (4%) was surface water. The surface water was withdrawn from Lake Washington in Brevard County for the City of Melbourne's public supply system. This was the only public supplier within the District to use surface water. The ground water total of 345.33 MGD includes 1.00 MGD saline ground water used for reverse osmosis (R/O). Orange (101.94 MGD) and Duval (84.86 MGD) were the counties with the largest public supply water use (Table 1). Total water withdrawn for public supply in Orange County totaled 122.60 MGD, of which 101.94 MGD was withdrawn in the St. Johns River Water Management District and the remaining 20.66 MGD was withdrawn in the South Florida Water Management District. Orange County's total also includes 22.10 MGD withdrawn for the City of Cocoa's (Brevard County) public supply system. Duval County's total includes the District's single largest public supplier, the City of Jacksonville, which accounted for 58.23 MGD.

Duval (527,827) and Orange (430,870) counties also have the largest number of people served by public supply systems (Figure 2). Total population served by the 177 public or private suppliers (utilities that serve 400 or more) accounted for 82% (2,201,080) of the District's population.

TABLE 1.--Public Fresh Water Use (MGD): 1985

COUNTY	GROUND	SURFACE	TOTAL	PERCENT OF TOTAL
ALACHUA	19.57	-	19.57	5.5
BAKER	0.60	-	0.60	*
BRADFORD	-	-	-	-
BREVARD	9.21(1)	14.09	23.30(1)	6.5
CLAY	8.40	-	8.40	2.3
DUVAL	84.86	-	84.86	24
FLAGLER	2.22	-	2.22	0.6
INDIAN RIVER	8.84(2)	-	8.84(2)	2.5
LAKE	15.34	-	15.34	4
MARION	10.10	-	10.10	3
NASSAU	3.04	-	3.04	0.8
OKEECHOBEE	-	-	-	-
ORANGE	101.94(3)	-	101.94(3)	28
OSCEOLA	-	-	-	-
POLK	0.08	-	0.08	*
PUTNAM	2.97	-	2.97	0.8
SEMINOLE	34.86	-	34.86	10
ST. JOHNS	7.01	-	7.01	2
VOLUSIA	36.40(4)	-	36.40(4)	10
TOTALS	345.44(5)	14.09	359.53(5)	

* Less than 0.5%

(1) Includes 0.02 MGD saline ground water

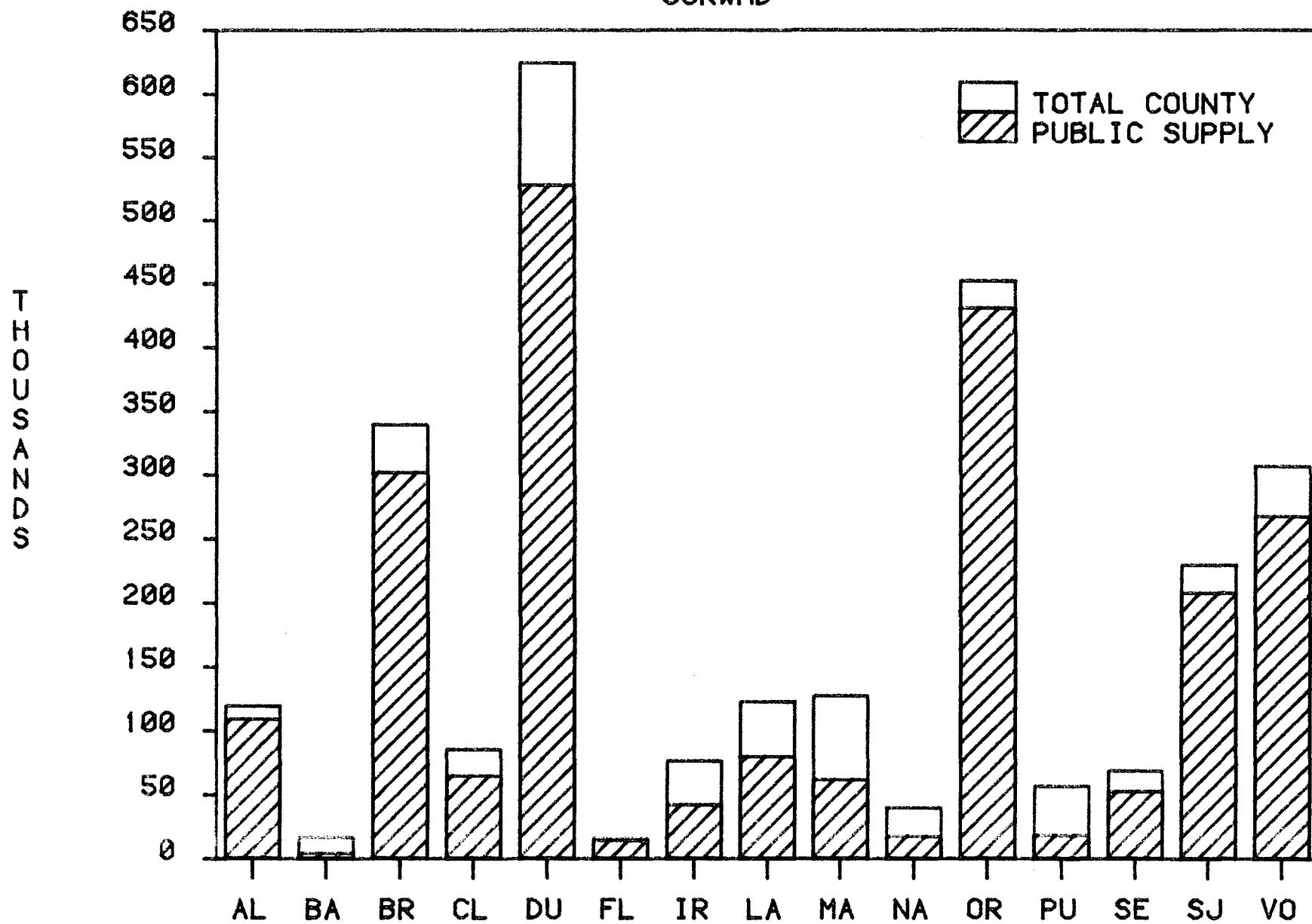
(2) Includes 0.97 MGD saline ground water

(3) Includes 22.10 MGD withdrawn for use in Brevard County

(4) Includes 0.01 MGD saline ground water

(5) Includes 1.00 MGD saline ground water

SJRWMD



Bradford, Okeechobee and Osceola counties are too small to depict.

FIGURE 2

County Population Served by Public Supply : 1985

In 1985, data available through the CUP files enabled the District to determine the disposition of water withdrawn for public supply purposes. This disposition is shown in Figure 3. In 1985, 70% of public supply water was used for household-domestic use. This includes indoor and outdoor residential uses such as lawn irrigation and car washing. The remaining uses include commercial 10.5%, industrial 7.5%, and water utility 7% (includes line flushing, fire fighting, and water lost to leakage). The remaining 5% (other category) was used directly for irrigation (metered irrigation use) and heating/cooling.

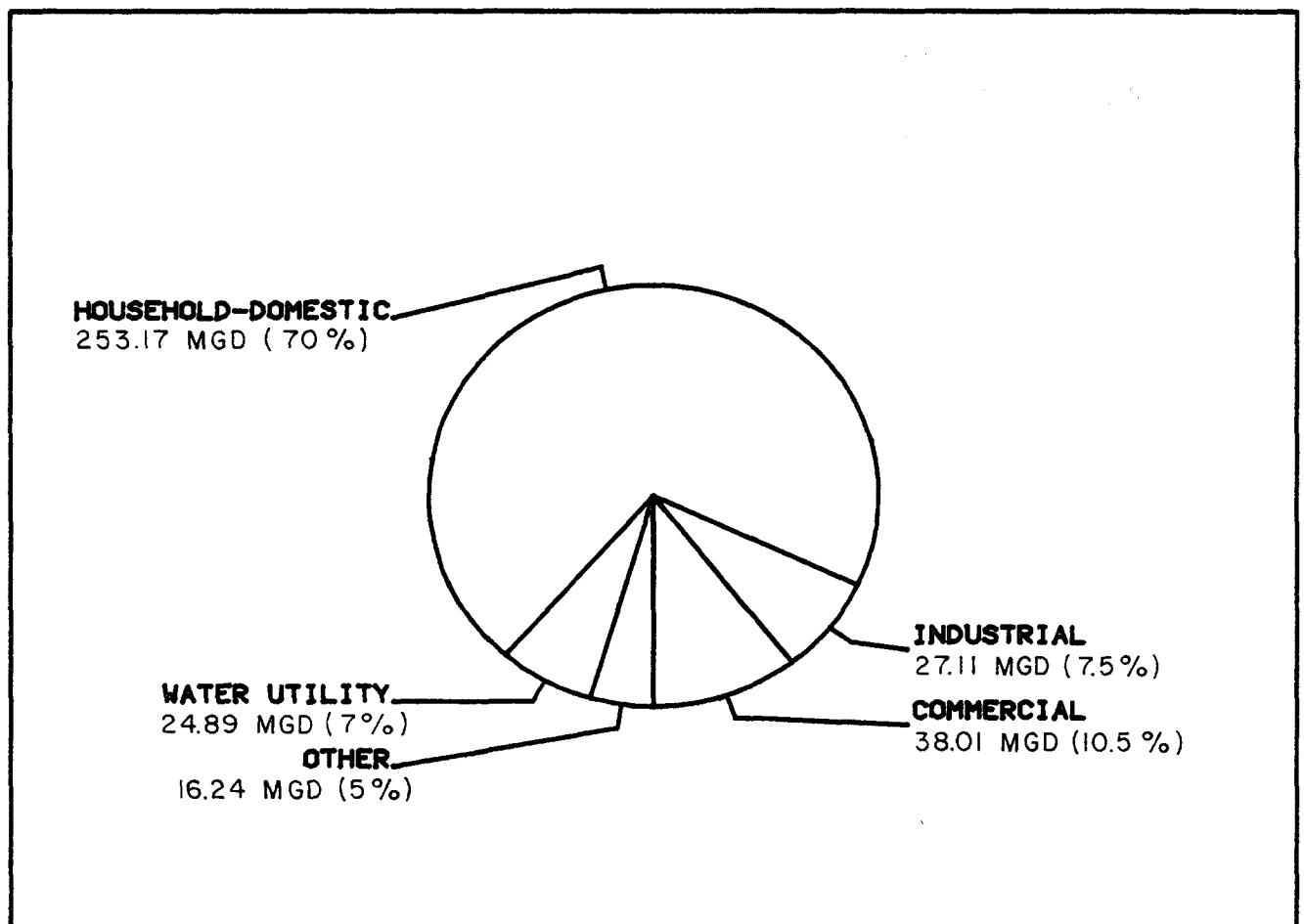


FIGURE 3 . Disposition of Public Supply Water Use : 1985

Domestic-Self-Supplied

The quantity of domestic self-supplied fresh water use in 1985 was 80.76 MGD. All of this was ground water. An estimated 492,322 people were served by small utilities not inventoried, or were self-supplied. In order to calculate domestic water use, gallons per capita day (GPCD) were estimated for each county, then multiplied by the population not served by the public supply system(s) within each county. Within the District in 1985 the average GPCD was 163. This figure includes public-supplied commercial and industrial water use as well as single family domestic use, water used for fire fighting, system flushing, and water lost to leakage (refer to Figure 3). Although the overall per capita use includes all uses, the District's actual per capita residential use is 94 gallons per person per day. This number was derived by dividing the 253.17 MGD of public supply delivered to households by the population served.

In addition to GPCD, total domestic self-supplied water use was calculated for each county (Table 2). Duval (15.50 MGD), Marion (11.48 MGD), Lake (8.28 MGD), and Indian River (7.29 MGD) counties were the counties with the largest domestic self-supplied water use for 1985.

TABLE 2.--Domestic Self-Supplied Fresh Ground Water Use (MGD): 1985

COUNTY	GPCD	TOTAL MGD	PERCENT OF TOTAL
ALACHUA	167	1.72	2
BAKER	142	1.73	2
BRADFORD	147 (1)	0.25	*
BREVARD	150	5.62	7
CLAY	130	2.70	3
DUVAL	161	15.50	19
FLAGLER	157	0.31	*
INDIAN RIVER	211	7.29	9
LAKE	192	8.28	10
MARION	174	11.48	14
NASSAU	176	3.97	5
OKEECHOBEE	*	0.06	*
ORANGE	192	4.08	5
OSCEOLA	*	0.06	*
POLK	200 (2)	0.28	*
PUTNAM	164	6.35	8
SEMINOLE	167	3.63	5
ST. JOHNS	133	2.13	3
VOLUSIA	136	5.32	7
TOTALS	163	80.76	

* Less than 1.0%

(1) Uses Keystone Heights per capita

(2) Uses total Polk County per capita

Industrial Self-Supplied

The quantity of industrial self-supplied fresh water use for 1985 was 172.34 MGD, of which 152.59 MGD (88%) was ground water and 19.75 MGD (12%) surface water. Industrial self-supplied use includes 11.34 MGD of institutional/recreational self-supplied water use. Putnam (53.05 MGD), Duval (38.08 MGD), and Nassau (37.40 MGD) were the counties with the largest industrial water use (Table 3). Lake (15.65 MGD) and Clay (11.74 MGD) counties were the only other counties with a substantial amount of industrial water use.

Pulp and paper processors located in Putnam, Duval, and Nassau counties were the major industrial water users. Fresh water use for pulp and paper processors in 1985 totaled 105.76 MGD, of which 96% (101.46 MGD) was ground water. Other industries using substantial amounts of water are mining (34.29 MGD) and food processing (15.81 MGD) which includes citrus processing.

TABLE 3.--Industrial Self-Supplied Fresh Water Use (MGD): 1985

COUNTY	GROUND	SURFACE	TOTAL	PERCENT OF TOTAL
ALACHUA	1.98	-	1.98	1
BAKER	0.16	-	0.16	*
BRADFORD	-	-	-	-
BREVARD	0.24	-	0.24	*
CLAY	7.31	4.43	11.74	7
DUVAL	38.08	-	38.08	18.5
FLAGLER	0.10	-	0.10	*
INDIAN RIVER	0.12	-	0.12	*
LAKE	12.24	3.41	15.65	9.5
MARION	0.71	1.93	2.64	2
NASSAU	37.40	-	37.40	23
OKEECHOBEE	0.06	-	0.06	*
ORANGE	5.31	-	5.31	3
OSCEOLA	-	-	-	-
POLK	0.13	-	0.13	*
PUTNAM	43.07	9.98	53.05	32
SEMINOLE	4.96	-	4.96	3
ST. JOHNS	0.08	-	0.08	*
VOLUSIA	0.64	-	0.64	*
TOTALS	152.59	19.75	172.34	

* Less than 1.0%

Agricultural Irrigation

Agricultural irrigation fresh water use, which includes livestock water use, was the largest water use category in 1985 accounting for 584.68 MGD. Of this amount the total ground water withdrawn amounted to 375.14 MGD (64%), and the remaining 209.54 MGD (36%) was surface water. In addition to ground and surface water use, 6.36 MGD of reclaimed (reuse) water was used for irrigation purposes. Reclaimed water was used for irrigation on pasture, turf grass (golf courses), and sod.

Indian River (135.61 MGD), Brevard (126.02 MGD), and Orange (83.18 MGD) were the counties with the largest agricultural irrigation water use (Table 4). Citrus and improved pasture were the largest water use crops in the District for 1985 (see Page 37).

Total agricultural acreage for 1985 was 962,506 of which 39% was irrigated (374,712). Brevard (123,084), Indian River (75,480), and Orange (58,261) counties accounted for 68% of the irrigated acres (Figure 4). Differences in irrigation acreage between 1984 and 1985 show gains in sweet corn (2,190), sod (2,015), potatoes (2,000), turf grass (1,770) and ferns (1,589).

During 1985 irrigated citrus acreage decreased by 58,554 acres. Of this amount a decrease of 39,000 acres and 6,719 acres were experienced in Lake and Brevard counties, respectively. Through 1985 the total reduction in irrigated citrus acreage since 1983 is 61,045 acres. This reduction is primarily the result of the severe freezes of 1983 and 1984.

Pumpage data for selected crops is currently being inventoried through the District's Benchmark Farms program. This program will enable the District to evaluate actual water use for irrigation purposes and help in determining supplemental irrigation requirements.

TABLE 4.--Agricultural Irrigation Fresh Water Use (MGD): 1985

COUNTY	GROUND	SURFACE	REUSE	TOTAL	PERCENT OF TOTAL
ALACHUA	3.79	0.04	-	3.83	0.5
BAKER	2.95	2.19	-	5.14	1
BRADFORD	0.08	-	-	0.08	*
BREVARD	100.32	25.70	0.66	126.02(1)	21.5
CLAY	2.85	0.88	-	3.73	0.5
DUVAL	18.80	1.37	1.14	20.17(1)	3.5
FLAGLER	6.31	0.93	-	7.24	1
INDIAN RIVER	28.43	107.18	0.77	135.61(1)	23
LAKE	28.43	4.84	2.48	33.27	6
MARION	7.55	1.17	0.48	8.72(1)	2
NASSAU	1.73	0.93	0.33	2.66(1)	0.5
OKEECHOBEE	7.70	0.62	-	8.32	2
ORANGE	32.27	50.91	-	83.18	14
OSCEOLA	6.66	1.28	-	7.94	1.5
POLK	9.55	0.99	-	10.54	2
PUTNAM	17.20	0.96	-	18.16	3
SEMINOLE	23.21	2.06	-	25.27	4
ST. JOHNS	41.00	1.07	0.42	42.07(1)	7
VOLUSIA	36.56	6.50	-	43.06	7
TOTALS	375.39	209.62	6.36	585.01(1)	

* Less than 0.5%

(1) Reuse is not included in Total MGD

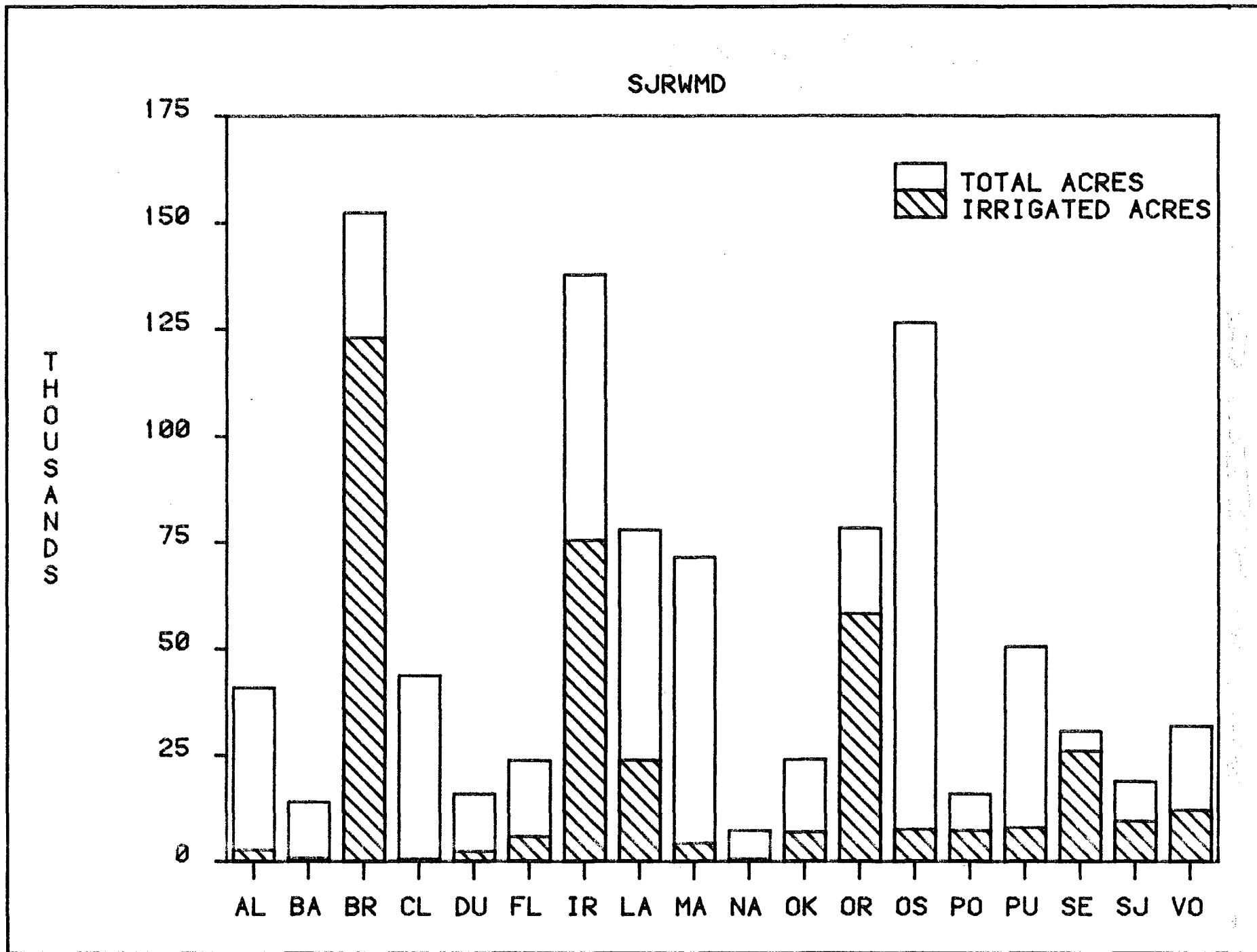


FIGURE 4 Acres Farmed and Irrigated by County : 1985

Thermoelectric Power Generation

Fresh water used for thermoelectric power generation fresh water use in 1985 amounted to 124.41 MGD. Of this ground water use totaled 4.03 MGD (3%) while surface water use totaled 120.38 MGD (97%).

The fresh water use from the 11 power plants within the District represents 7% of the total water use for this category. The majority of water use for thermoelectric power generation is saline surface water (not accounted for in this report). In 1985, total saline surface water use for this category amounted to 1,630.45 MGD.

Heat Pump/Air Conditioning

Heat pump/air conditioning (HP/AC) water use data was collected for residential units in three counties: Brevard, Putnam, and Volusia. Non-residential (industrial and commercial) data was collected for Alachua, Duval, Orange, Putnam, St. Johns and Volusia. Water use for this category in 1985 amounted to 75.05 MGD. Each county's estimated totals are as follows:

Alachua: 0.97 MGD

Brevard: 59.00 MGD

Duval: 5.63 MGD

Orange: 0.82 MGD

Putnam: 2.30 MGD

St. Johns 0.10 MGD

Volusia 6.23 MGD

Data will continue to be collected for the remaining counties.

TABLE 5.--Thermoelectric Fresh Water Use (MGD): 1985

COUNTY	GROUND	SURFACE	TOTAL	PERCENT OF TOTAL
ALACHUA	0.51	-	0.51	*
BAKER	-	-	-	-
BRADFORD	-	-	-	-
BREVARD	0.31	-	0.31	*
CLAY	-	-	-	-
DUVAL	2.06	-	2.06	2
FLAGLER	-	-	-	-
INDIAN RIVER	0.31	-	0.31	*
LAKE	-	-	-	-
MARION	-	-	-	-
NASSAU	-	-	-	-
OKEECHOBEE	-	-	-	-
ORANGE	-	-	-	-
OSCEOLA	-	-	-	-
POLK	-	-	-	-
PUTNAM	0.68	9.13	9.81	8
SEMINOLE	-	-	-	-
ST. JOHNS	-	-	-	-
VOLUSIA	0.16	111.25	111.41	90
TOTALS	4.03	120.38	124.41	

* Less than 1.0%

Free-Flowing Wells

Free-flowing wells are those artesian wells that flow freely at land surface. Many of these wells are old wells drilled for domestic, agricultural, mosquito control, or test purposes. In many cases these wells are abandoned with leaking or broken control devices. The Florida Legislature enacted the Water Quality Assurance Act of 1983 to address the problems caused by free-flowing wells. As part of this legislation, each water management district was directed to prepare an inventory of these wells.

It is estimated that there are 800 - 1000 free-flowing wells in the District. The total flow from the existing 378 inventoried flowing wells amounts to 33.08 MGD. In Brevard County, 259 wells have been inventoried and estimated flow from these wells is 26.0 MGD (Table 6). Other counties with substantial amounts of discharge from free-flowing wells are Marion (1.71 MGD), Volusia (1.26 MGD), and St. Johns counties (1.04 MGD). Due to hydrologic conditions, only portions of the District have the potential for free-flowing artesian wells. These areas are shown on Figure 5.

TABLE 6.--Free Flowing Wells Water Use: 1985

COUNTY	NO. OF WELLS INVENTORIED	NO. OF WELLS PLUGGED DURING 1985	NO. OF WELLS FREE FLOWING IN 1985	TOTAL MGD	PERCENT OF TOTAL
ALACHUA	-	-	-	-	-
BAKER	0	0	0	0.0	-
BRADFORD	-	-	-	-	-
BREVARD	259	20	239	26.0	79
CLAY	11	0	11	0.79	2.5
DUVAL	12	0	12	0.51	1.5
FLAGLER	20	14	6	0.08	*
INDIAN RIVER	11	0	11	0.49	1.5
LAKE	3	0	3	0.49	1.5
MARION	10	0	10	1.71	5
NASSAU	2	0	2	0.02	*
OKEECHOBEE	0	0	0	0.0	-
ORANGE	1	0	1	0.02	*
OSCEOLA	0	0	0	0.0	-
POLK	-	-	-	-	
PUTNAM	26	0	0	0.55	1.5
SEMINOLE	10	0	10	0.12	*
ST. JOHNS	30	0	30	1.04	3
VOLUSIA	23	6	17	1.26	4
TOTALS	418	40	378	33.08	

* Less than 1.0%

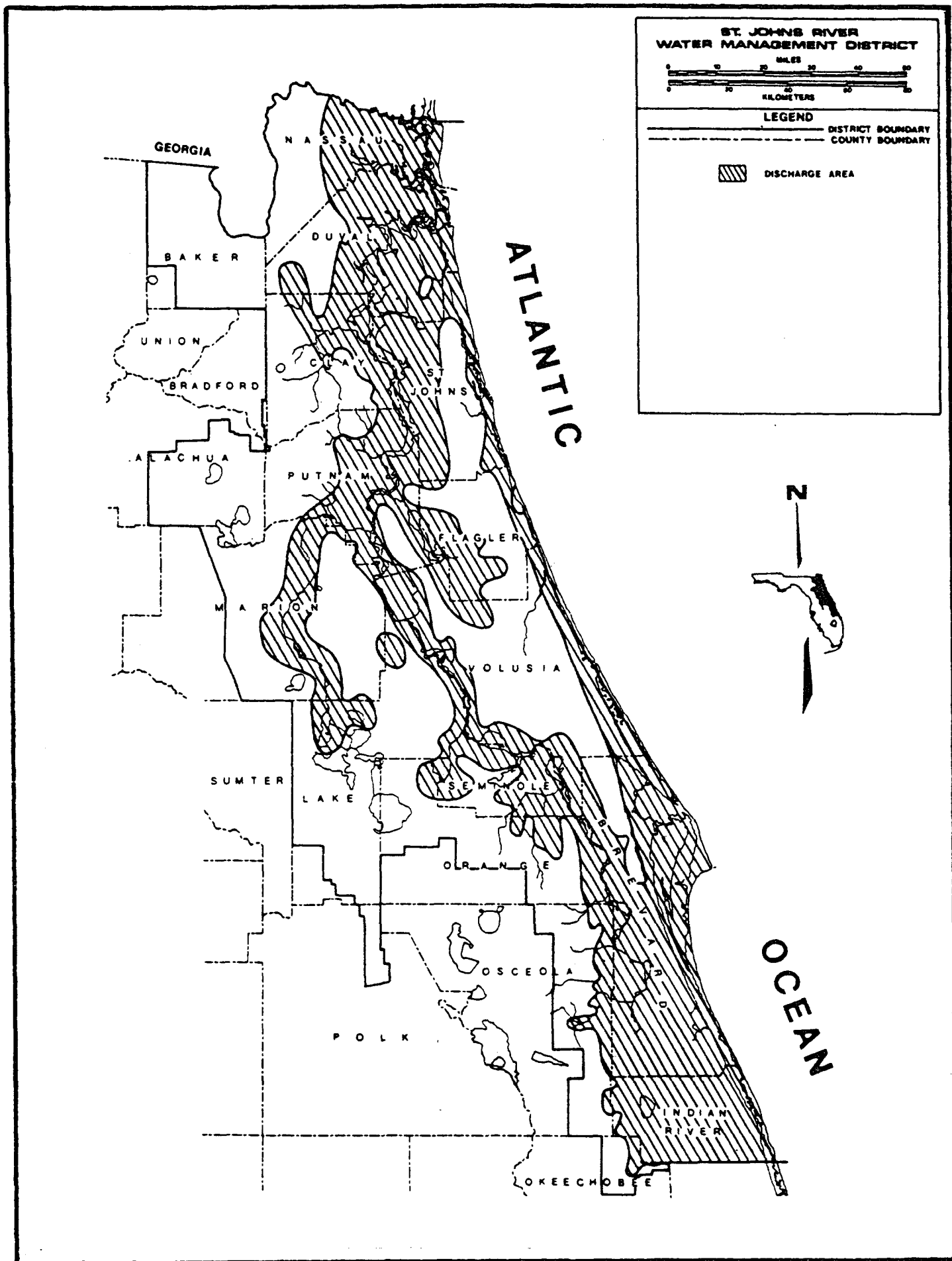


FIGURE 5 . Generalized Area of Potential Free-Flowing Wells

Summary

Agricultural irrigation was the largest fresh water use category for 1985 (Table 7). This category accounted for 35% of the ground water and 58% of the total fresh surface water used within the District (Figure 6). The second largest category was public supply using 32% of the total fresh ground water and 4% of the total fresh surface water. Other categories with substantial amounts of ground water use were industrial self-supplied (14%), domestic self-supplied (8%), and heat pump/air conditioning (7%). Free-flowing wells accounted for 3%, and thermoelectric power generation accounted for less than 1% (0.5%) of the total ground water used in 1985.

The major fresh surface water use category in 1985 was agricultural irrigation, which accounted for 58% of the total surface water used in the District. Thermoelectric power generation accounted for 33% of total fresh surface water use. Industrial self-supplied (5%), and public supply (4%) accounted for the remaining 9% of total fresh surface water use.

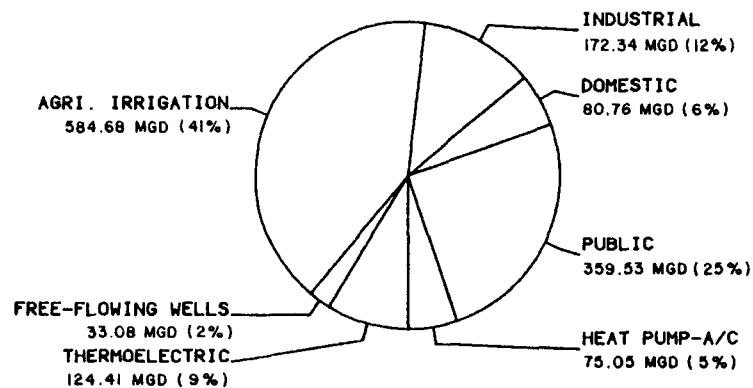
TABLE 7.--Total Fresh Water Use (MGD) by Category: 1985

	GROUND	SURFACE	REUSE	TOTAL
Public	345.44(1)	14.09	-	359.53
Domestic	80.76	-	-	80.76
Industrial	152.59	19.75	-	172.34
Agr. Irrigation	375.14	209.54	6.36	584.68(2)
Thermoelectric	4.03	120.38	-	124.41
Heat Pump/AC	75.05	-	-	75.05
Free-Flowing Wells	33.08	-	-	33.08
TOTAL	1,066.09(1)	363.76	6.36	1,429.85(2)

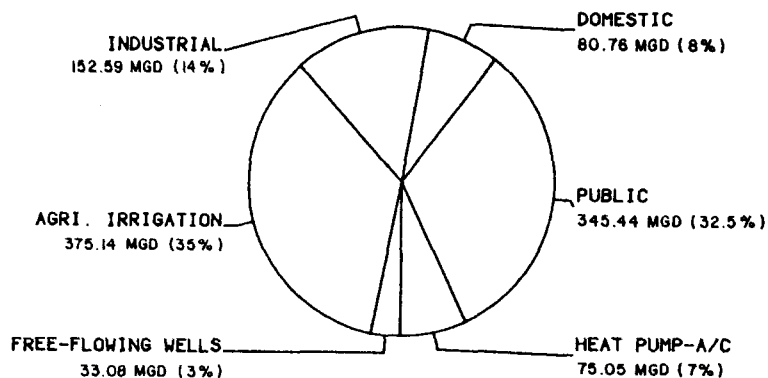
(1) Includes 1.0 MGD saline ground water

(2) Does not include reuse water in totals

FRESH WATER USE (MGD) BY CATEGORY 1985



FRESH GROUND WATER USE (MGD) BY CATEGORY 1985



NOTE: Thermoelectric is too small to depict.
(This category accounts for the remaining 0.5%)

FRESH SURFACE WATER USE (MGD) BY CATEGORY 1985

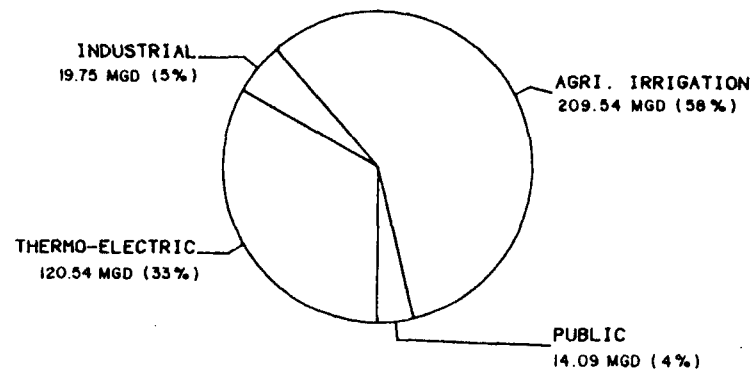


FIGURE 6

1985 Water Use by Category

WATER USE BY COUNTY

Brevard County was the largest user of fresh water for 1985 (Table 8), accounting for 240.49 MGD (17%). Volusia (204.32 MGD), Orange (195.35 MGD), Duval (166.81 MGD), and Indian River counties (152.66 MGD) were the next four largest fresh water users. These five counties accounted for 68% of the total fresh water use (Figure 7).

Brevard County experienced the largest fresh ground water use by county in 1985, with 200.70 MGD (19%). Other counties which withdrew over 80 MGD of fresh ground water were Duval (165.44 MGD), Orange (144.44 MGD), and Volusia (86.57 MGD). Indian River County withdrew the largest amount of saline ground water (0.97 MGD) for reverse osmosis.

Volusia (117.75 MGD) and Indian River (107.18 MGD) counties experienced the largest fresh surface water use by county in 1985, accounting for 62 percent combined. Other counties using substantial amounts of surface water were Orange (50.91 MGD), Brevard (39.79 MGD), and Putnam (20.07 MGD). Lake (2.48 MGD) and Duval (1.14 MGD) counties used the largest amount of reuse water (57%).

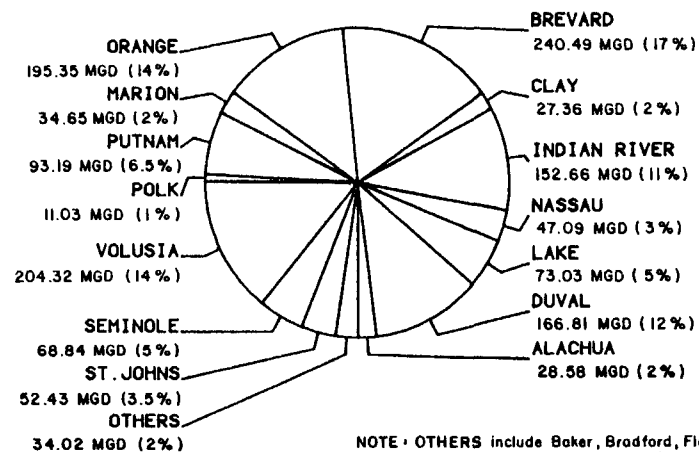
Figure 8 shows each county's fresh water use by source (refer to Table 9). Water use shown for those counties partially within the SJRWMD (Alachua, Baker, Bradford, Lake, Marion, Okeechobee, Orange, Osceola, and Polk) represents the data from the St. Johns portion only. The remaining portions of those counties are not accounted for in this report.

TABLE 8.--Total Fresh Water Use (MGD) by County: 1985

COUNTY	GROUND	SURFACE	REUSE	TOTAL	PERCENT OF TOTAL
ALACHUA	28.54	0.04	-	28.58	2
BAKER	5.44	2.19	-	7.63	*
BRADFORD	0.33	-	-	0.33	*
BREVARD	200.70	39.79	0.66	240.49	17
CLAY	22.05	5.31	-	27.36	2
DUVAL	165.44	1.37	1.14	166.81	12
FLAGLER	9.02	0.93	*	9.95	*
INDIAN RIVER	45.48	107.18	0.77	152.66	11
LAKE	64.78	8.25	2.48	73.03	5
MARION	31.55	3.10	0.48	34.65	2
NASSAU	46.16	0.93	0.33	47.09	3
OKEECHOBEE	7.82	0.62	-	8.44	*
ORANGE	144.44	50.91	-	195.35	14
OSCEOLA	6.47	1.20	-	7.67	*
POLK	10.04	0.99	-	11.03	*
PUTNAM	73.12	20.07	-	93.19	6.5
SEMINOLE	66.78	2.06	-	68.84	5
ST. JOHNS	51.36	1.07	0.42	52.43	3.5
VOLUSIA	86.57	117.75	-	204.32	14
TOTALS	1,066.09	363.76	6.36	1,429.85	

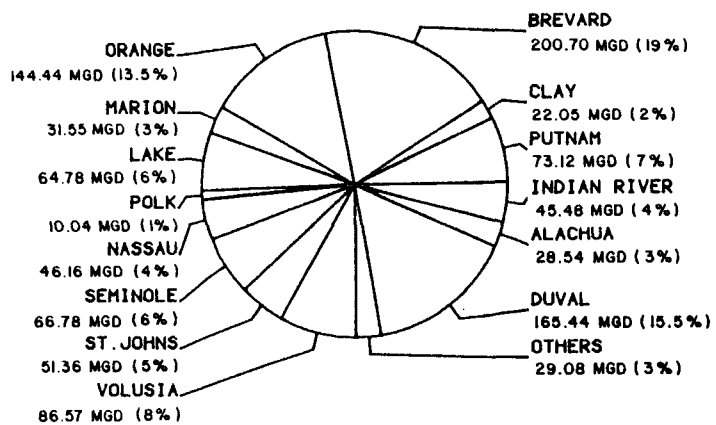
* Less than 1.0%, the combined total of these equals the remaining 3 percent.

FRESH WATER USE (MGD) BY COUNTY - 1985



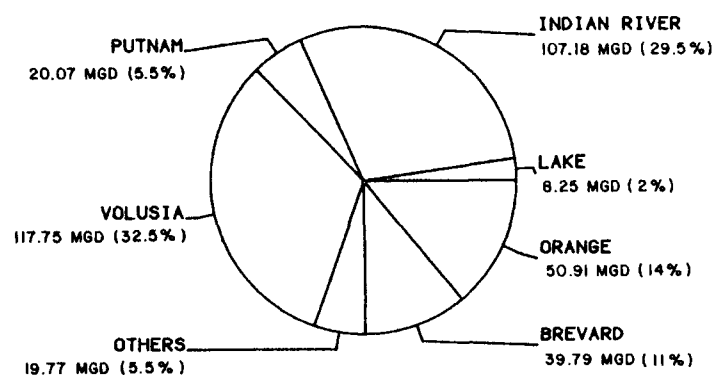
NOTE: OTHERS include Baker, Bradford, Flagler, Okeechobee and Osceola counties.

FRESH GROUND WATER USE (MGD) BY COUNTY - 1985



NOTE: OTHERS include Baker, Bradford, Flagler, Okeechobee and Osceola counties.

FRESH SURFACE WATER USE (MGD) BY COUNTY - 1985



NOTE: OTHERS include Alachua, Baker, Clay, Duval, Flagler, Marion, Nassau, Okeechobee, Osceola, Polk, Seminole and St. Johns counties.

FIGURE 7

1985 Water Use by County

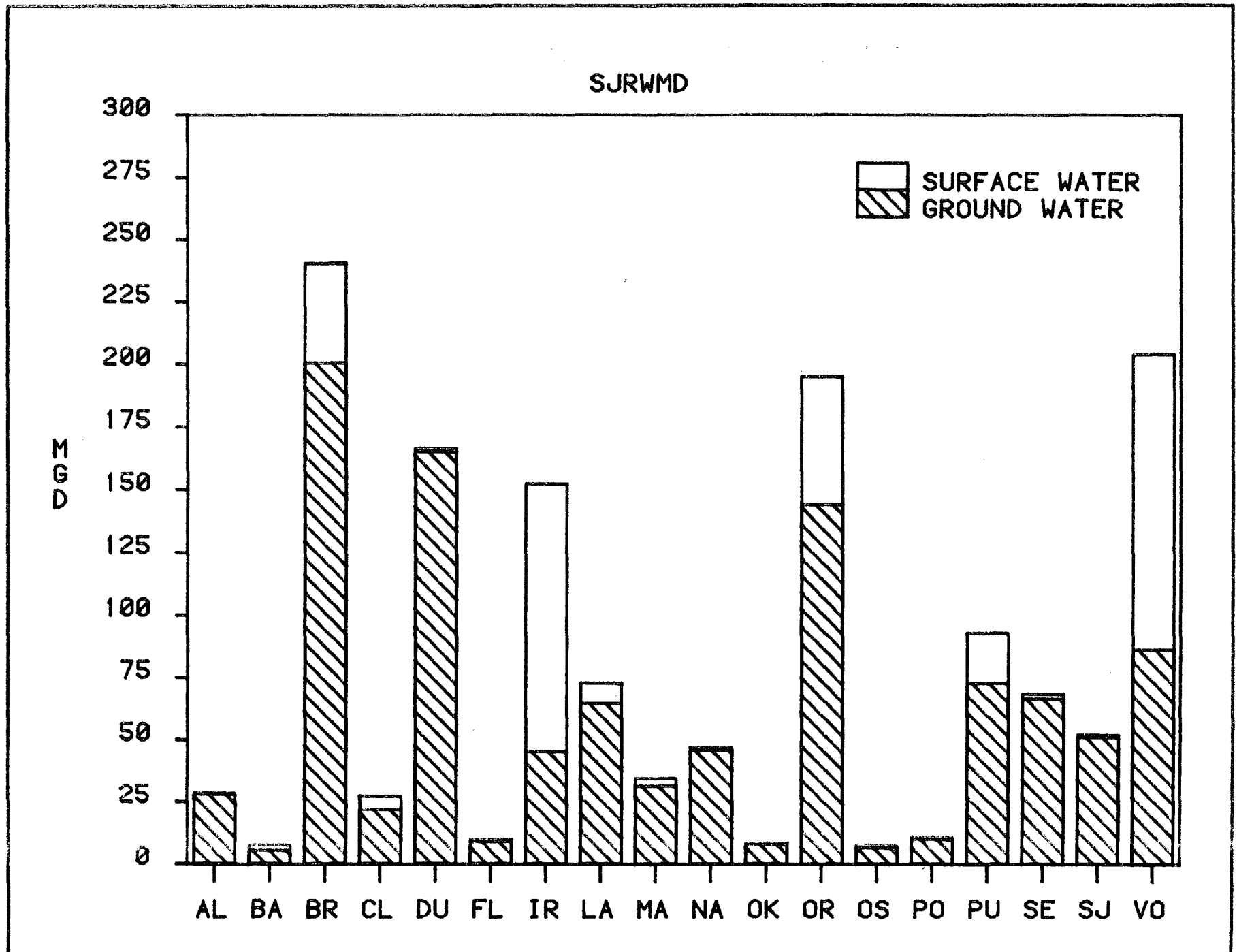


FIGURE 8

County Water Use by Source : 1985

WATER USE BY SURFACE WATER BASIN

In addition to water use by county, the 1985 data is presented by surface water basins (Table 9). The Middle St. Johns River Basin (116.79 MGD) and the Lower Coastal Basin (106.51 MGD) accounted for 61.4% of the fresh surface water used in 1985 (Figure 9). The Oklawaha River Basin (67.93 MGD), and Upper St. Johns River Basin (41.35 MGD) were the only other significant users of fresh surface water.

The Lower St. Johns River Basin (288.75 MGD), Middle St. Johns River Basin (187.13 MGD) and the Oklawaha River Basin (157.87 MGD) were the largest fresh ground water use basins in 1985. These three basins account for 59.5% of the ground water withdrawals (refer to Figure 10 for surface water basin locations).

TABLE 9.--Total Fresh Water Use (MGD)
by Surface Water Basin: 1985

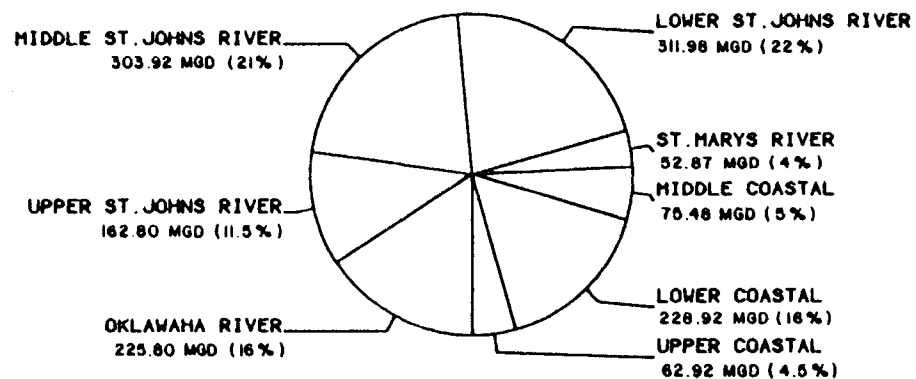
SURFACE WATER BASIN	GROUND	%	SURFACE	%	TOTAL	%
Nassau R.	4.54	0.5	0.62	*	5.16	*
St. Marys R.	50.15	5	2.72	0.5	52.87	4
Lower St. Johns R.	288.75	27	23.23	6.5	311.98	22
Middle St. Johns R.	187.13	17.5	116.79	32	303.92	21
Upper St. Johns R.	121.45	11.5	41.35	11.5	162.80	11.5
Oklawaha R.	157.87	15	67.93	19	225.80	16
Upper Coastal	60.26	5	2.66	0.5	62.92	4.5
Middle Coastal	73.53(1)	7	1.95	0.5	75.48	5
Lower Coastal	122.41(2)	11.5	106.51	29.5	228.92	16
TOTAL	1,066.09		363.76		1,429.85	

* Less than 0.5%

(1) Includes 0.01 MGD saline ground water

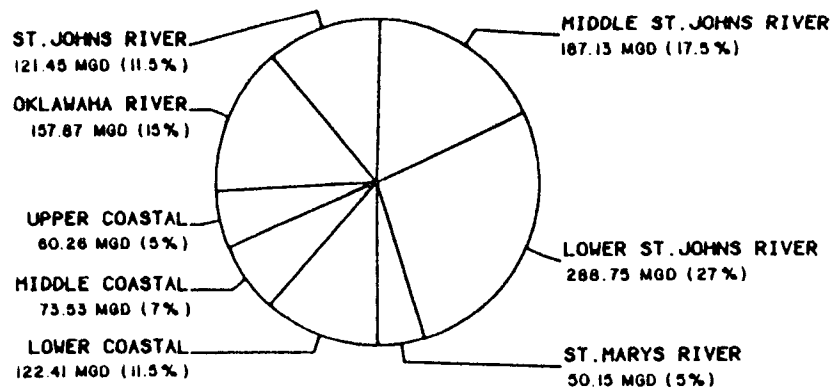
(2) Includes 0.99 MGD saline ground water

FRESH WATER USE (MGD) BY SURFACE WATER BASIN, 1985



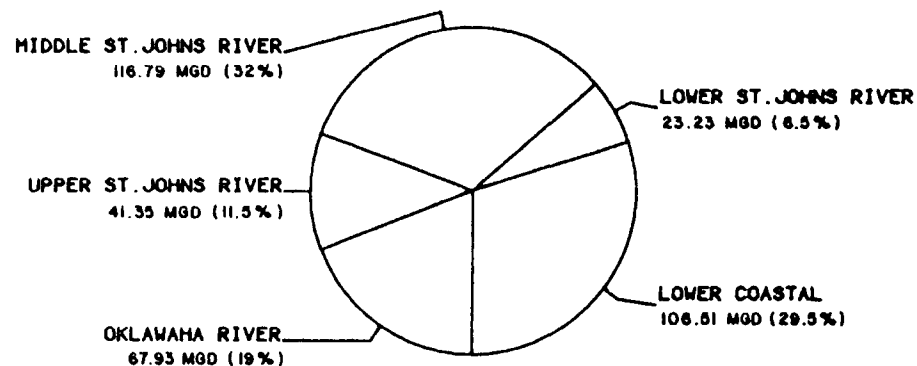
NOTE: Nassau River Basin is too small to depict.

FRESH GROUND WATER USE (MGD) BY SURFACE WATER BASIN, 1985



NOTE: Nassau River Basin is too small to depict.
(This basin accounts for the remaining 0.5%)

FRESH SURFACE WATER USE (MGD) BY SURFACE WATER BASIN, 1985



NOTE: The Middle Coast, Upper Coast, Nassau River and St. Marys River Basins are too small to depict.
(These 4 basins account for the remaining 1.5%)

FIGURE 9 1985 Water Use by Surface Water Basin

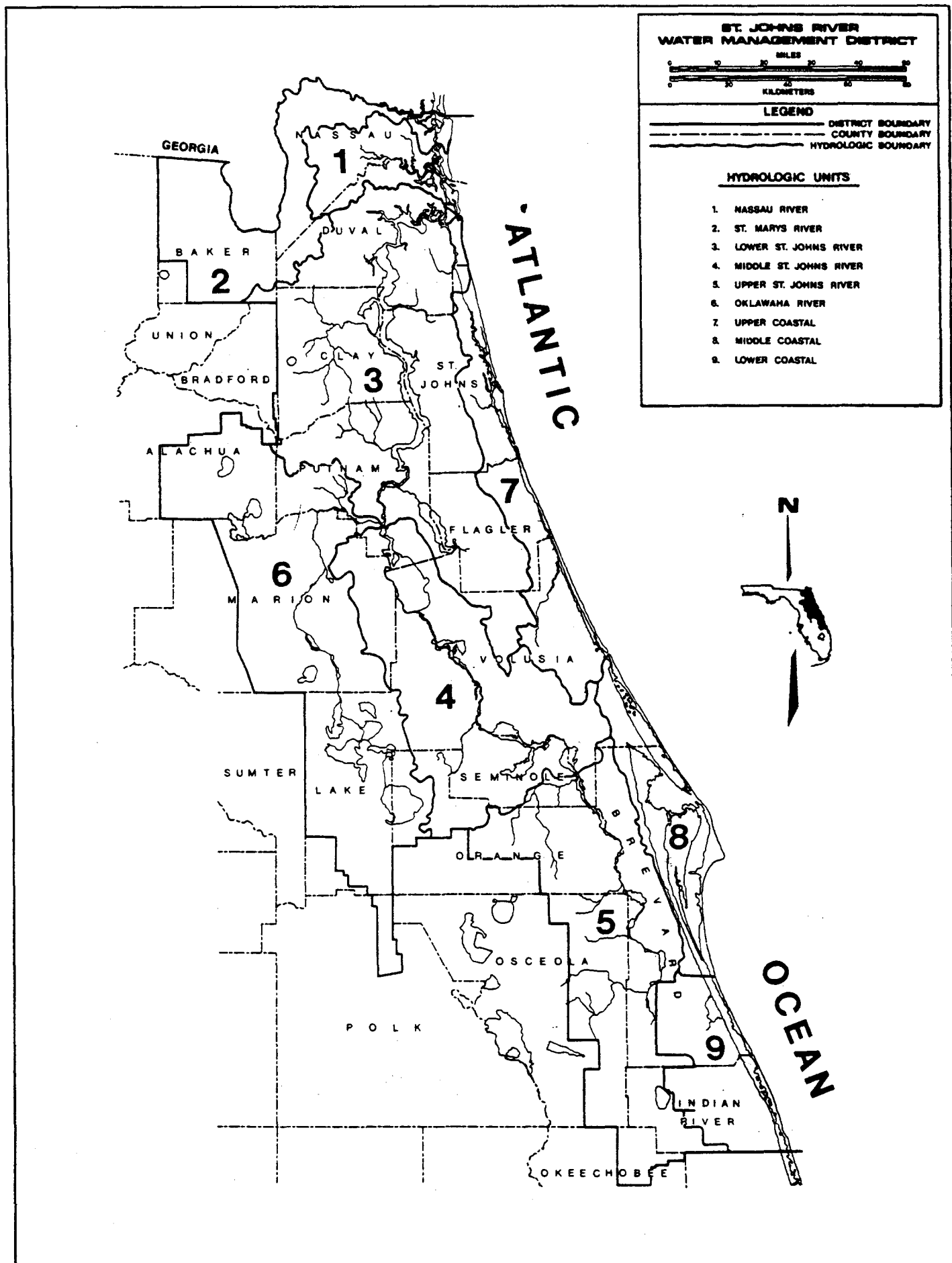


FIGURE 10. St. Johns River Water Management District Hydrologic (Surface) Basin Map

WATER USE BY AQUIFER

The 1985 data has been tabulated such that the aquifer supplying the ground water is identified. For purposes of this tabulation the ground water is delineated by two systems, the Floridan aquifer and non-Floridan (includes the intermediate and surficial aquifers). The Floridan aquifer is the primary source of ground water in the SJRWMD due to its ability to produce large quantities of good quality water. The intermediate and surficial aquifer areas of primary use occur where the Floridan has poor water quality (Figure 11). The intermediate and surficial aquifers are also used for domestic self-supplied wells due to the depth of the top of the Floridan in many areas.

Total ground water use in 1985 was 1,066.09 MGD, of that total an estimated 958.21 MGD or 90% was withdrawn from the Floridan aquifer. The remaining 107.88 MGD was withdrawn from the surficial or intermediate aquifer. Domestic self-supplied accounted for 51% of the ground water withdrawals from the non-Floridan aquifers (Table 10). Figure 12 shows each county's ground water use by aquifer source.

TABLE 10. Ground Water Withdrawals (MGD) by Source: 1985

	Total Withdrawn	Floridan	Non-Floridan
Public	345.44	323.01	22.43
Domestic	80.76	25.86	54.90
Industrial	152.59	152.29	0.30
Agr. Irrigation	375.14	348.15	26.99
Thermoelectric	4.03	3.81	0.22
Heat Pump/AC	75.05	72.01	3.04
Free-Flowing Wells	33.08	33.08	-
TOTALS	1066.09	958.21	107.88

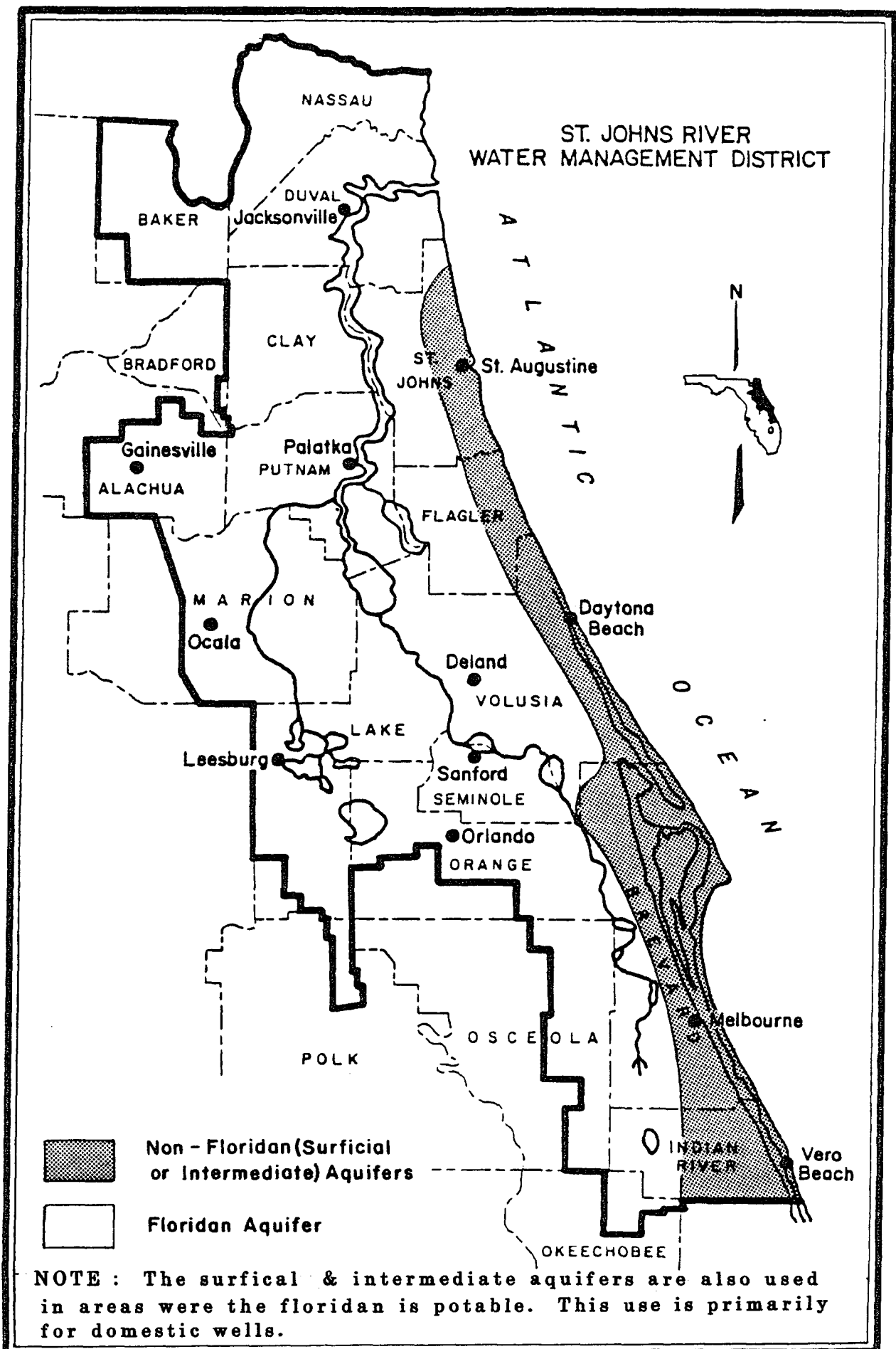


FIGURE 11 . Principal Aquifer for Potable Water

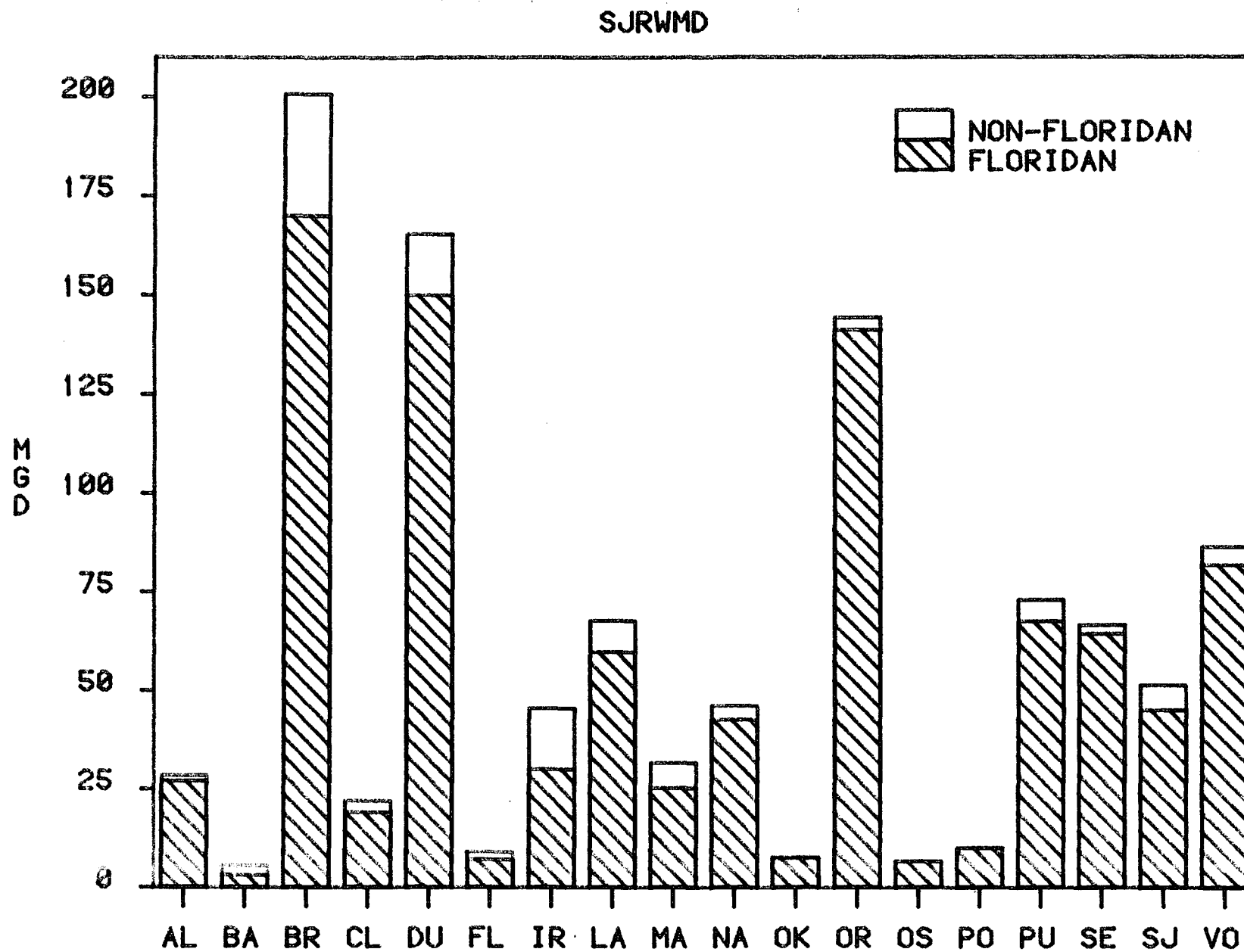


FIGURE 12 . County Ground Water Use by Aquifer : 1985

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- Florida Agricultural Statistics; Citrus Summary 1985, Florida Crop and Livestock Reporting Service, Orlando, Florida, January 1986.
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- The 1983-84 Florida Almanac, Gretna, Louisiana: Pelican Publishing Company, 1983.
- Water Resource Management Plan; Phase 1: St. Johns River Water Management District, Palatka, FL, November 1977

APPENDIX

APPENDIX

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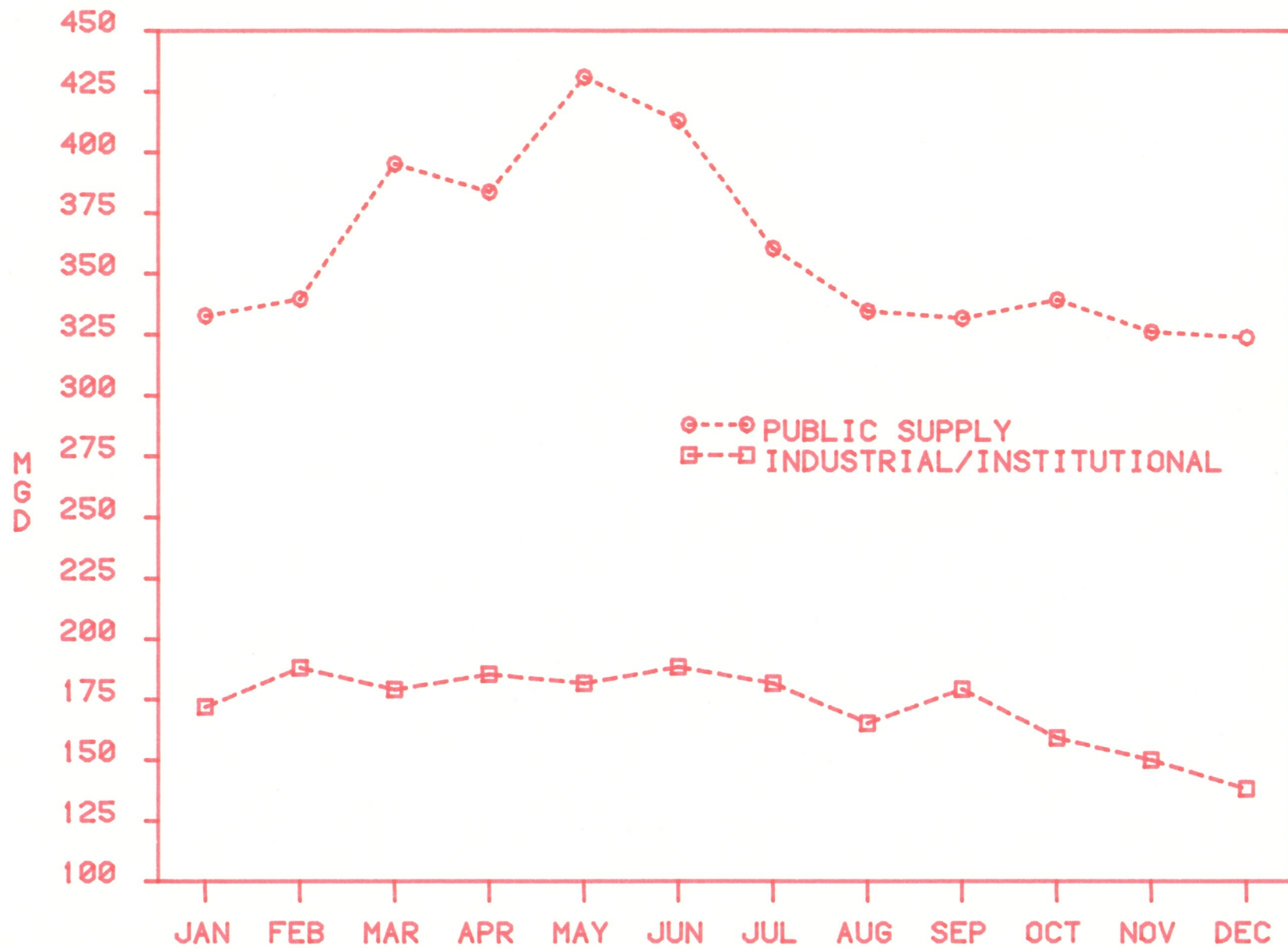


FIGURE A-1 MONTHLY FRESH WATER USE IN ST. JOHNS RIVER W.M.D. FOR 1985

FLORIDA - 1985

Total Population: 11,287,932

Total Land Area: 58,560 sq. mi. (37,478,400 acres)

St. Johns River Water Management Portion

Population: 2,690,133 (23.8% of the State)

Population Public Supply: 2,201,080(1)

Population Domestic Self-Supplied: 485,923

Gallons Per Capita Day: 163

Area: 12,344 sq. miles (7,900,060 acres)

Acres Farmed: 962,506

Acres Irrigated: 374,712

Fresh Water Use 1985 (MGD)

	GROUND	SURFACE	REUSE	TOTAL
Public	345.44	14.09	-	359.53 (1)
Domestic	81.76	0.0	-	81.76
Industrial	152.59	19.75	-	172.34
Agr. Irrigation	375.14	209.54	6.36	584.68 (2)
Thermoelectric	4.03	120.38	-	124.41
Heat Pump/air cond.	75.05	0.0	-	75.05
Free flowing wells	33.08	0.0	-	33.08
TOTALS	1,066.09 (1)	363.76	6.36	1,429.85 (2)

(1) Does not include 3,130 population served by Public Supply who live in SJRWMD but use water withdrawn in SWFWMD.

(2) Includes 1.0 MGD saline ground water used for reverse osmosis (R/O)

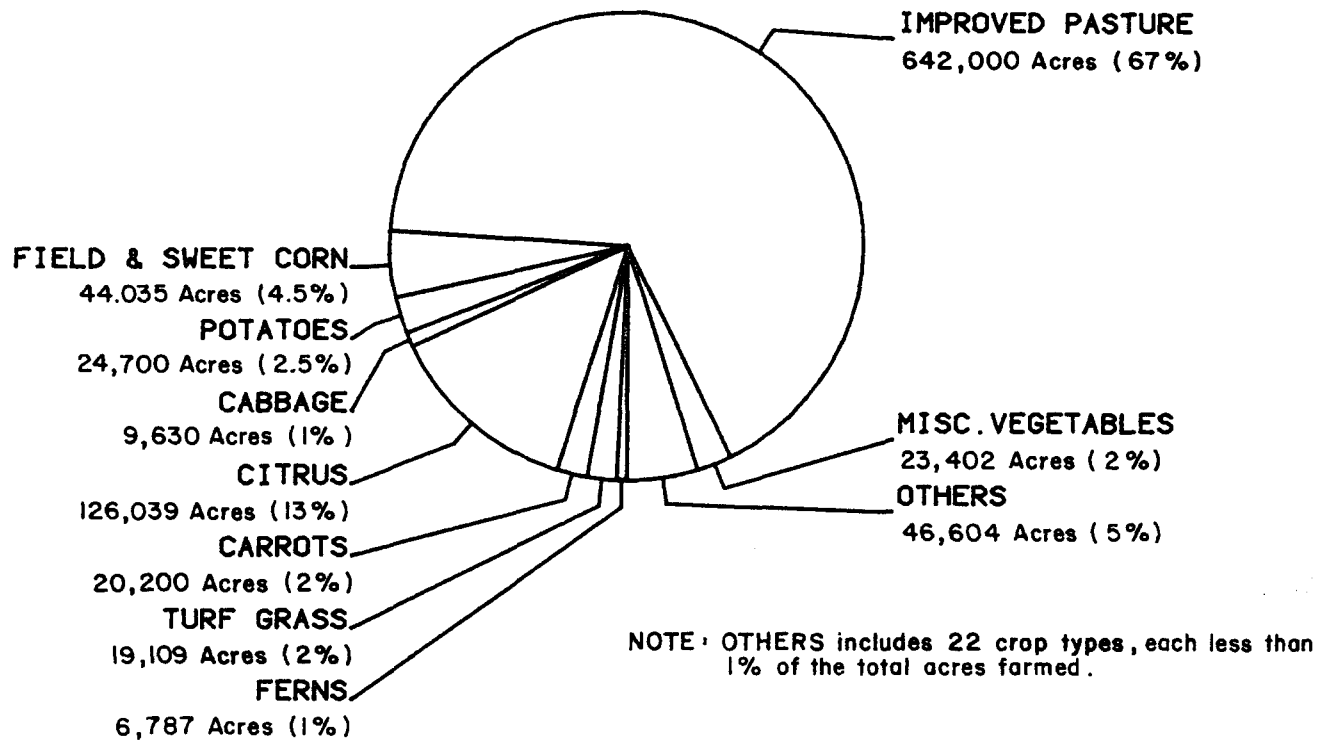
(3) Reuse is not included in Total

TABLE A-1 TOTAL DISTRICT ACRES FARMED AND IRRIGATED

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
 WATER RESOURCES DEPARTMENT - RESOURCE EVALUATION DIVISION
 1985 CALENDAR YEAR

CROP TYPE	TOTAL AC FARMED	IRRIGATED ACRES	SPRINKLER ACRES	TILE SEEPAGE ACRES	FLOOD & SEEPAGE ACRES	LOW PRESS LOW VOL ACRES
CABBAGE	9,630	9,630	1,425	4,200	4,005	0
CARROTS	20,200	20,200	0	0	20,200	0
CUCUMBERS	4,145	3,945	330	1,250	2,360	5
PEPPERS	570	520	300	0	220	0
POTATOES	24,700	24,700	0	18,000	6,700	0
TOMATOES	95	95	85	0	0	10
SWEET CORN	20,255	20,130	90	540	19,500	0
WATERCRESS	150	150	0	0	150	0
MISC. VEGETABLES	23,402	21,327	3,024	1,373	16,930	0
BLUEBERRIES	540	428	161	15	2	250
CITRUS	126,039	108,974	23,950	50	41,910	43,064
GRAPES	125	112	75	0	0	37
PEACHES	90	90	90	0	0	0
PECANS	2,770	310	10	0	0	300
STRAWBERRIES	55	55	15	0	40	0
WATERMELONS	4,005	2,950	2,850	0	100	0
MISC. FRUIT	100	90	90	0	0	0
FIELD CORN	23,780	14,751	1,375	9,100	4,276	0
PEANUTS	2,250	100	100	0	0	0
RICE	200	200	0	0	200	0
SORGHUM	5,650	2,300	150	0	2,150	0
SOYBEANS	4,799	200	200	0	0	0
SUGAR CANE	0	0	0	0	0	0
TOBACCO	182	80	80	0	0	0
WHEAT	1,200	1,000	0	0	1,000	0
MISC. GRAINS	10,034	150	0	0	150	0
FERNS	6,787	6,682	6,682	0	0	0
FLOWERS & FOLIAGE	1,818	1,818	1,333	10	220	255
WOODY ORNAMENTALS	3,121	2,308	2,248	0	20	40
IMPROVED PASTURE	642,000	116,247	2,880	1,000	112,367	0
SOD	4,705	4,645	3,255	0	1,390	0
TURF GRASS	19,109	10,525	10,525	0	0	0
	962,506	374,712	61,323	35,538	233,890	43,961

**ACRES FARMED IN THE ST. JOHNS RIVER WMD
1985**



**ACRES IRRIGATED IN THE ST. JOHNS RIVER WMD
1985**

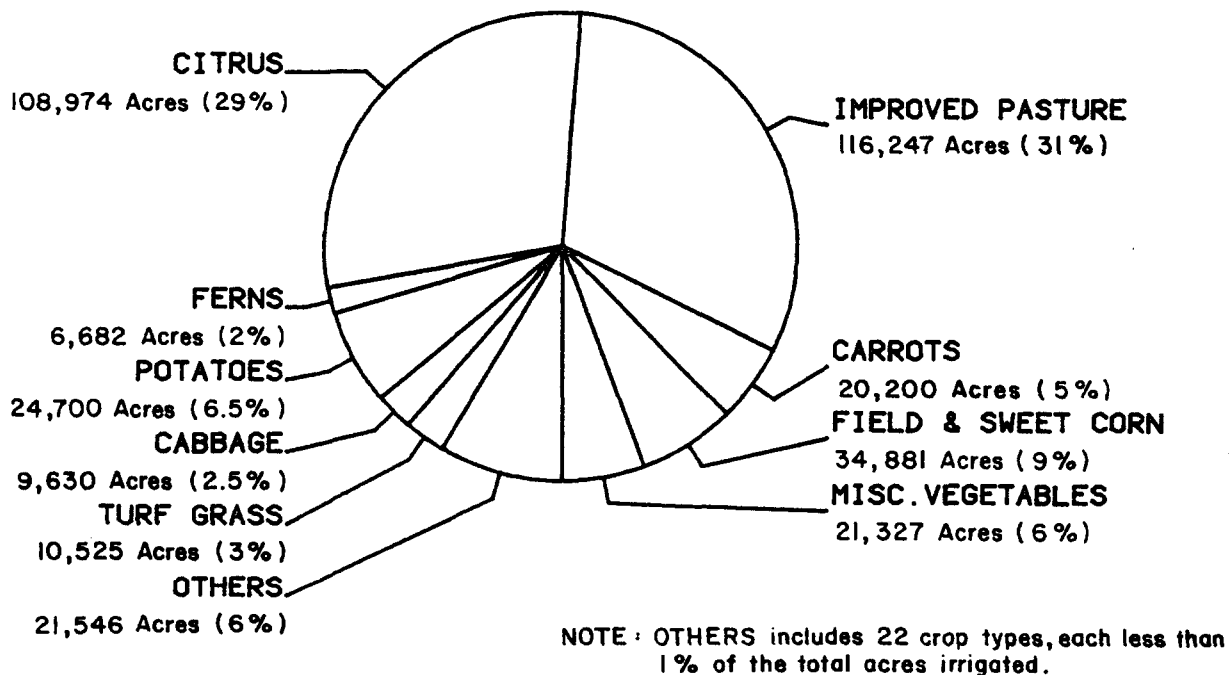


FIGURE A-2

TABLE A-2 IRRIGATION WATER USE
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
WATER RESOURCES DEPARTMENT - RESOURCE EVALUATION DIVISION
1985 CALENDAR YEAR

CROP TYPE	TOTAL AC.FT	GROUND WATER M G D	SURFACE WATER M G D	RE-USED WATER M G D	TOTAL WATER M G D
CABBAGE	11422	10.20	0.00	0.00	10.20
CARROTS	20636	7.34	11.08	0.00	18.42
CUCUMBERS	3621	3.23	0.00	0.00	3.23
PEPPERS	292	0.26	0.00	0.00	0.26
POTATOES	40187	35.88	0.00	0.00	35.88
TOMATOES	106	0.10	0.00	0.00	0.10
SWEET CORN	26053	7.89	15.37	0.00	23.26
WATERCRESS	8750	7.81	0.00	0.00	7.81
MISC. VEGETABLES	39148	10.40	24.54	0.00	34.94
BLUEBERRIES	502	0.45	0.00	0.00	0.45
CITRUS	204126	85.09	97.15	0.00	182.24
GRAPES	207	0.19	0.00	0.00	0.19
PEACHES	259	0.22	0.01	0.00	0.23
PECANS	28	0.02	0.00	0.00	0.02
STRAWBERRIES	73	0.07	0.00	0.00	0.07
WATERMELONS	3536	3.11	0.04	0.00	3.15
MISC. FRUIT	137	0.13	0.00	0.00	0.13
FIELD CORN	25167	11.00	11.45	0.00	22.45
PEANUTS	62	0.05	0.01	0.00	0.06
RICE	433	0.00	0.39	0.00	0.39
SORGHUM	2673	2.17	0.22	0.00	2.39
SOYBEANS	249	0.22	0.00	0.00	0.22
SUGAR CANE	0	0.00	0.00	0.00	0.00
TOBACCO	76	0.00	0.07	0.00	0.07
WHEAT	0	0.00	0.00	0.00	0.00
MISC. GRAINS	252	0.22	0.00	0.00	0.22
FERNS	36191	27.46	4.83	0.00	32.29
FLOWERS & FOLIAGE	9407	7.62	0.77	0.00	8.39
WOODY ORNAMENTALS	13687	10.68	1.53	0.00	12.21
IMPROVED PASTURE	126748	89.09	21.59	2.48	110.68
SOD	13889	7.37	3.88	1.14	11.25
TURF GRASS	41432	23.24	11.01	2.74	34.25
LIVESTOCK	17861	10.33	5.60	0.00	15.93
FISH FARMING	2726	2.44	0.00	0.00	2.44
AESTHETIC/WILDLIFE	12165	10.86	0.00	0.00	10.86
	=====	=====	=====	=====	=====
	662,101	375.14	209.54	6.36	584.68

IRRIGATED WATER USE IN THE ST. JOHNS RIVER WMD 1985

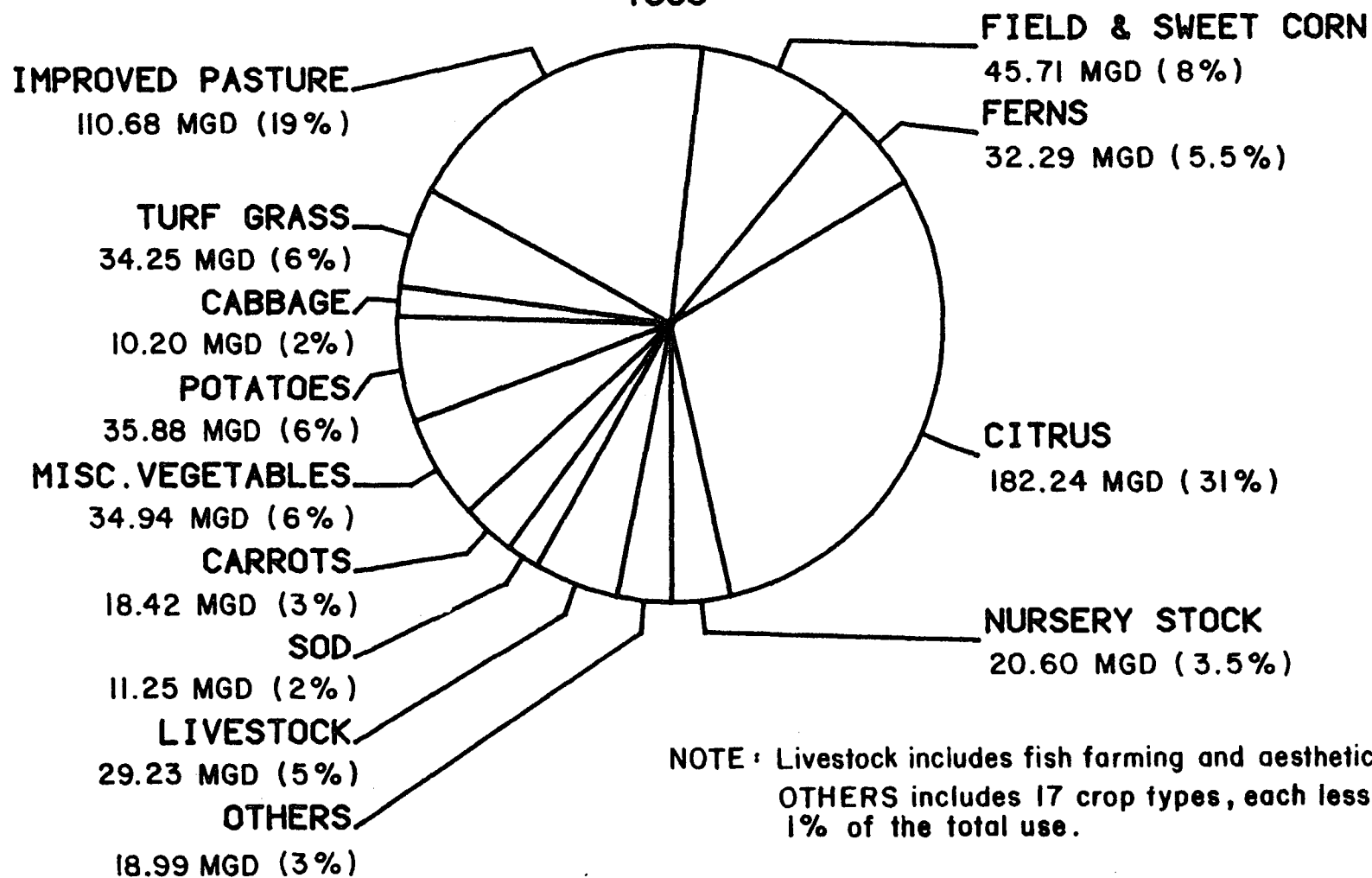


FIGURE A-3

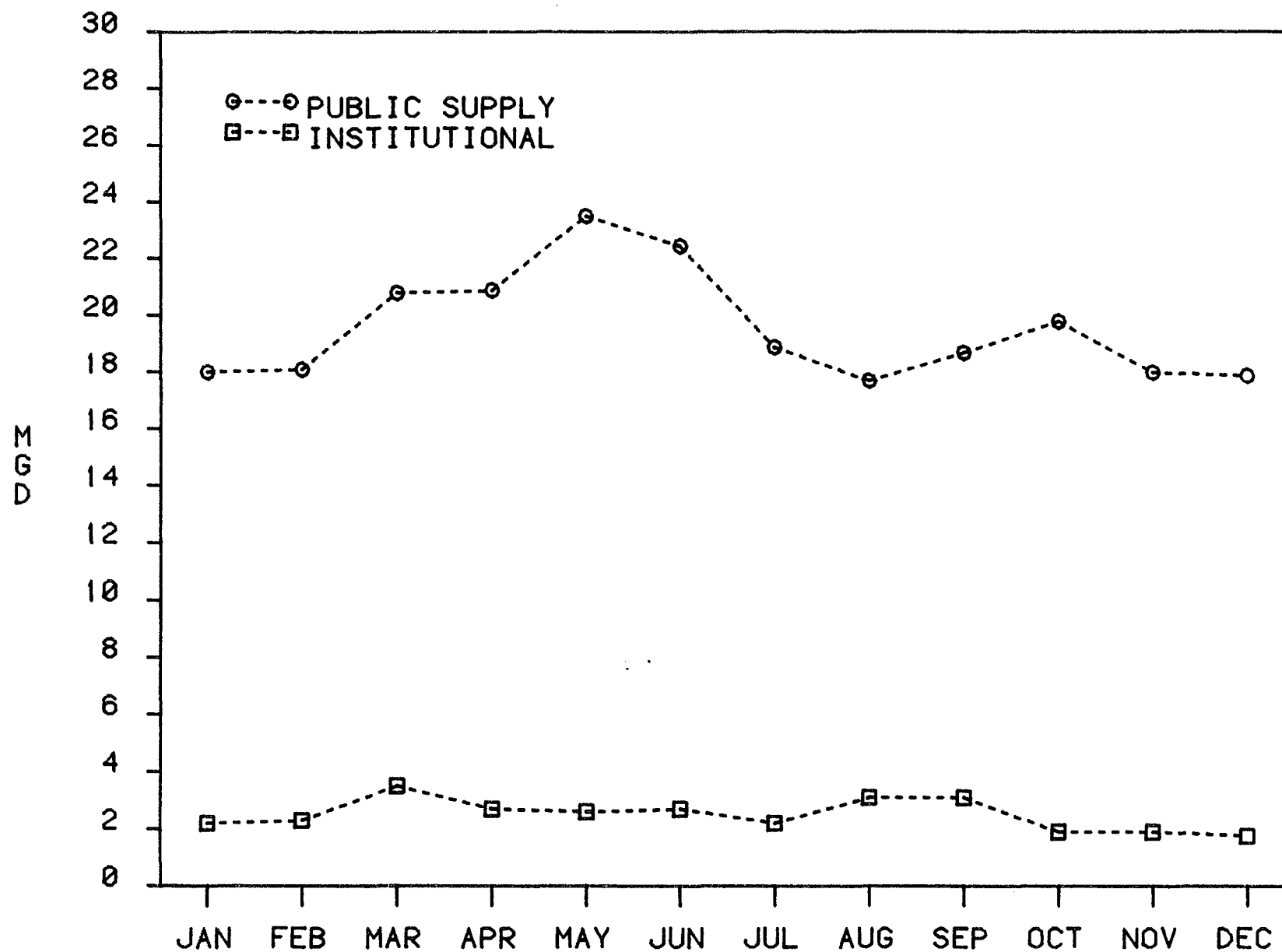


FIGURE A-4

MONTHLY FRESH WATER USE IN ALACHUA COUNTY FOR 1985

COUNTY: Alachua - 1985

Total Population: 172,900

Total Land Area: 961 sq. miles

St. Johns River Water Management Portion

Population: 119,300

Population Public Supply: 108,978(1)

Population Domestic Self-Supplied: 10,322

Gallons Per Capita Day: 167

Area: 482 sq. miles (308,480 acres)

Acres Farmed: 40,933

Acres Irrigated: 2,721

Fresh Water Use 1985 (MGD)

	GROUND	SURFACE	REUSE	TOTAL
Public	19.57	0.0	-	19.57
Domestic	1.72	0.0	-	1.72
Industrial	1.98	0.0	-	1.98
Agr. Irrigation	3.79	0.04	-	3.83
Thermoelectric	0.51	0.0	-	0.51
Heat Pump/air cond.	0.97	0.0	-	0.97
Free-flowing wells	0.0	0.0	-	0.0
TOTALS	28.54	0.04	0.0	28.58

(1) Does not include 5,500 population served by Public Supply in SJRWMD who live in SRWMD

TABLE A-3 ACRES FARMED AND IRRIGATED

ALACHUA COUNTY

1985 CALENDAR YEAR

CROP TYPE	TOTAL AC FARMED	IRRIGATED ACRES	SPRINKLER ACRES	TILE SEEPAGE ACRES	FLOOD & SEEPAGE ACRES	LOW PRESS LOW VOL ACRES
CABBAGE	0	0	0	0	0	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	300	200	200	0	0	0
PEPPERS	250	200	200	0	0	0
POTATOES	0	0	0	0	0	0
TOMATOES	0	0	0	0	0	0
SWEET CORN	75	50	50	0	0	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	680	680	680	0	0	0
BLUEBERRIES	220	200	50	0	0	150
CITRUS	0	0	0	0	0	0
GRAPES	30	30	0	0	0	30
PEACHES	15	15	15	0	0	0
PECANS	2,600	300	0	0	0	300
STRAWBERRIES	5	5	5	0	0	0
WATERMELONS	500	400	400	0	0	0
MISC. FRUIT	90	80	80	0	0	0
FIELD CORN	1,200	100	100	0	0	0
PEANUTS	200	100	100	0	0	0
SORGHUM	0	0	0	0	0	0
SOYBEANS	4,000	0	0	0	0	0
TOBACCO	0	0	0	0	0	0
WHEAT	200	0	0	0	0	0
MISC. GRAINS	1,500	0	0	0	0	0
FERNS	1	1	1	0	0	0
FLOWERS & FOLIAGE	2	2	2	0	0	0
WOODY ORNAMENTALS	60	50	50	0	0	0
IMPROVED PASTURE	28,500	0	0	0	0	0
SOD	100	40	40	0	0	0
TURF GRASS	405	268	268	0	0	0
	40,933	2,721	2,241	0	0	480

TABLE A-4 IRRIGATION WATER USE

ALACHUA COUNTY

1985 CALENDAR YEAR

CROP TYPE	SPRINKLER INCHES PER/YR	SEEPAGE INCHES PER/YR	LOW PRESS INCHES PER/YR	TOTAL AC.FT	GROUND WATER M G D	SURFACE WATER M G D	RE-USED WATER M G D	TOTAL WATER M G D
CABBAGE	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
CARROTS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
CUCUMBERS	11.70	0.00	0.00	195	0.17	0.00	0.00	0.17
PEPPERS	11.70	0.00	0.00	195	0.17	0.00	0.00	0.17
POTATOES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TOMATOES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SWEET CORN	15.85	0.00	0.00	66	0.06	0.00	0.00	0.06
WATERCRESS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. VEGETABLES	11.70	0.00	0.00	663	0.59	0.00	0.00	0.59
BLUEBERRIES	16.40	0.00	10.90	204	0.18	0.00	0.00	0.18
CITRUS	17.19	0.00	0.00	0	0.00	0.00	0.00	0.00
GRAPES	0.00	0.00	19.33	48	0.04	0.00	0.00	0.04
PEACHES	34.70	0.00	30.83	43	0.03	0.01	0.00	0.04
PECANS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
STRAWBERRIES	18.00	0.00	0.00	7	0.01	0.00	0.00	0.01
WATERMELONS	14.40	0.00	0.00	480	0.43	0.00	0.00	0.43
MISC. FRUIT	18.00	0.00	0.00	120	0.11	0.00	0.00	0.11
FIELD CORN	15.85	0.00	0.00	132	0.09	0.02	0.00	0.11
PEANUTS	7.50	0.00	0.00	62	0.05	0.01	0.00	0.06
SORGHUM	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SOYBEANS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TOBACCO	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WHEAT	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. GRAINS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FERNS	65.00	0.00	0.00	5	0.00	0.00	0.00	0.00
FLOWERS & FOLIAGE	65.00	0.00	48.00	10	0.01	0.00	0.00	0.01
WOODY ORNAMENTALS	65.00	0.00	0.00	270	0.24	0.00	0.00	0.24
IMPROVED PASTURE	27.61	0.00	0.00	0	0.00	0.00	0.00	0.00
SOD	27.50	0.00	0.00	91	0.08	0.00	0.00	0.08
TURF GRASS	40.80	0.00	0.00	911	0.81	0.00	0.00	0.81
LIVESTOCK	0.00	0.00	0.00	810	0.72	0.00	0.00	0.72
FISH FARMING	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
				4,312	3.79	0.04	0.00	3.83

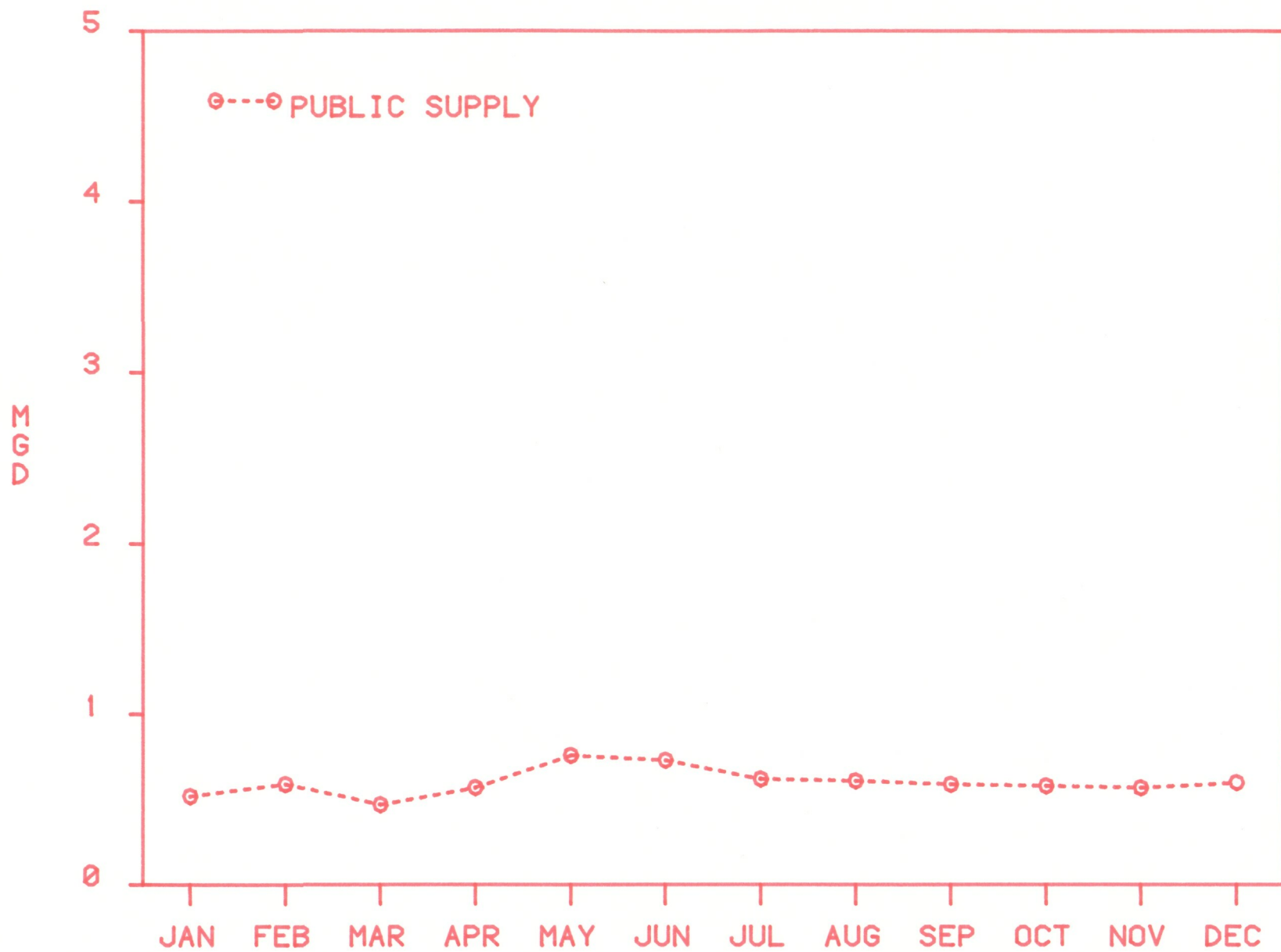


FIGURE A-5

MONTHLY FRESH WATER USE IN BAKER COUNTY FOR 1985

COUNTY: BAKER - 1985

Total Population: 17,310

Total Land Area: 588 sq. miles

St. Johns River Water Management Portion

Population: 16,445

Population Public Supply: 4,232

Population Domestic Self-Supplied: 12,213

Gallons Per Capita Day: 142

Area: 536 sq. miles (343,040 acres)

Acres Farmed: 13,999

Acres Irrigated: 640

Fresh Water Use 1985 (MGD)

	GROUND	SURFACE	REUSE	TOTAL
Public	0.60	0.0	-	0.60
Domestic	1.73	0.0	-	1.73
Industrial	0.16	0.0	-	0.16
Agr. Irrigation	2.95	2.19	-	5.14
Thermoelectric	0.0	0.0	-	0.0
Heat Pump/air cond.	0.0	0.0	-	0.0
Free-flowing wells	0.0	0.0	-	0.0
TOTALS	5.44	2.19	0.0	7.63

TABLE A-5 ACRES FARMED AND IRRIGATED

BAKER COUNTY

1985 CALENDAR YEAR

CROP TYPE	TOTAL AC FARMED	IRRIGATED ACRES	SPRINKLER ACRES	TILE SEEPAGE ACRES	FLOOD & SEEPAGE ACRES	LOW PRESS LOW VOL ACRES
CABBAGE	0	0	0	0	0	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	100	0	0	0	0	0
PEPPERS	0	0	0	0	0	0
POTATOES	0	0	0	0	0	0
TOMATOES	0	0	0	0	0	0
SWEET CORN	100	0	0	0	0	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	522	100	100	0	0	0
BLUEBERRIES	25	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
PECANS	50	0	0	0	0	0
STRAWBERRIES	0	0	0	0	0	0
WATERMELONS	400	0	0	0	0	0
MISC. FRUIT	0	0	0	0	0	0
FIELD CORN	600	0	0	0	0	0
PEANUTS	50	0	0	0	0	0
SORGHUM	0	0	0	0	0	0
SOYBEANS	599	0	0	0	0	0
TOBACCO	145	80	80	0	0	0
WHEAT	0	0	0	0	0	0
MISC. GRAINS RYE	1,584	0	0	0	0	0
FERNS	0	0	0	0	0	0
FLOWERS & FOLIAGE	0	0	0	0	0	0
WOODY ORNAMENTALS	1,200	400	400	0	0	0
IMPROVED PASTURE	8,500	0	0	0	0	0
SOD	0	0	0	0	0	0
TURF GRASS	124	60	60	0	0	0
	13,999	640	640	0	0	0

TABLE A-6 IRRIGATION WATER USE

BAKER COUNTY

1985 CALENDAR YEAR

CROP TYPE	SPRINKLER INCHES PER/YR	SEEPAGE INCHES PER/YR	LOW PRESS INCHES PER/YR	TOTAL AC.FT	GROUND WATER M G D	SURFACE WATER M G D	RE-USED WATER M G D	TOTAL WATER M G D
CABBAGE	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
CARROTS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
CUCUMBERS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PEPPERS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
POTATOES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TOMATOES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SWEET CORN	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WATERCRESS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. VEGETABLES	11.70	0.00	0.00	97	0.09	0.00	0.00	0.09
BLUEBERRIES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
CITRUS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
GRAPES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PEACHES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PECANS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
STRAWBERRIES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WATERMELONS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. FRUIT	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FIELD CORN	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PEANUTS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SORGHUM	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SOYBEANS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TOBACCO	11.54	0.00	0.00	76	0.00	0.07	0.00	0.07
WHEAT	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. GRAINS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FERNS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FLOWERS & FOLIAGE	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WOODY ORNAMENTALS	128.80	0.00	0.00	4,293	2.30	1.53	0.00	3.83
IMPROVED PASTURE	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SOD	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TURF GRASS	33.23	0.00	0.00	166	0.15	0.00	0.00	0.15
LIVESTOCK	0.00	0.00	0.00	1,123	0.41	0.59	0.00	1.00
FISH FARMING	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
				5,755	2.95	2.19	0.00	5.14

THE PUBLIC AND INDUSTRIAL PUMPAGE IN BRADFORD COUNTY
WITHIN THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
FOR 1985 WAS TOO SMALL TO DEPICT.

COUNTY: BRADFORD - 1985

Total Population: 23,400

Total Land Area: 305 sq. miles

St. Johns River Water Management Portion

Population: 1,680

Population Public Supply: -0-

Population Domestic Self-Supplied: 1,680

Gallons Per Capita Day: 147 - Keystone Heights average

Land Area: 6 sq. miles (3,840 acres)

Acres Farmed: 40

Acres Irrigated: 30

Fresh Water Use 1985 (MGD)

	GROUND	SURFACE	REUSE	TOTAL
Public	0.0	0.0	-	0.0
Domestic	0.25	0.0	-	0.25
Industrial	0.0	0.0	-	0.0
Agr. Irrigation	0.08	0.0	-	0.08
Thermoelectric	0.0	0.0	-	0.0
Heat Pump/air cond.	0.0	0.0	-	0.0
Free-flowing wells	0.0	0.0	-	0.0
TOTALS	0.33	0.0	0.0	0.33

TABLE A-7 ACRES FARMED AND IRRIGATED

BRADFORD COUNTY

1985 CALENDAR YEAR

CROP TYPE	TOTAL AC FARMED	IRRIGATED ACRES	SPRINKLER ACRES	TILE SEEPAGE ACRES	FLOOD & SEEPAGE ACRES	LOW PRESS LOW VOL ACRES
CABBAGE	0	0	0	0	0	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	0	0	0	0	0	0
PEPPERS	0	0	0	0	0	0
POTATOES	0	0	0	0	0	0
TOMATOES	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	0	0	0	0	0	0
GRAPES	0	0	0	0	0	0
PEACHES	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
STRAWBERRIES	0	0	0	0	0	0
WATERMELONS	0	0	0	0	0	0
MISC. FRUIT	0	0	0	0	0	0
FIELD CORN	0	0	0	0	0	0
PEANUTS	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
WHEAT	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
WOODY ORNAMENTALS	0	0	0	0	0	0
IMPROVED PASTURE	0	0	0	0	0	0
SOD	0	0	0	0	0	0
TURF GRASS	40	30	30	0	0	0
	40	30	30	0	0	0

TABLE A-8 IRRIGATION WATER USE

BRADFORD COUNTY

1985 CALENDAR YEAR

CROP TYPE	SPRINKLER INCHES PER/YR	SEEPAGE INCHES PER/YR	LOW PRESS INCHES PER/YR	TOTAL AC.FT	GROUND WATER M G D	SURFACE WATER M G D	RE-USED WATER M G D	TOTAL WATER M G D
CABBAGE	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
CARROTS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
CUCUMBERS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PEPPERS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
POTATOES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TOMATOES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SWEET CORN	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WATERCRESS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. VEGETABLES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
BLUEBERRIES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
CITRUS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
GRAPES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PEACHES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PECANS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
STRAWBERRIES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WATERMELONS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. FRUIT	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FIELD CORN	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PEANUTS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SORGHUM	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SOYBEANS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TOBACCO	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WHEAT	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. GRAINS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FERNS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FLOWERS & FOLIAGE	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WOODY ORNAMENTALS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
IMPROVED PASTURE	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SOD	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TURF GRASS	35.28	0.00	0.00	88	0.08	0.00	0.00	0.08
LIVESTOCK	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FISH FARMING	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
				88	0.08	0.00	0.00	0.08

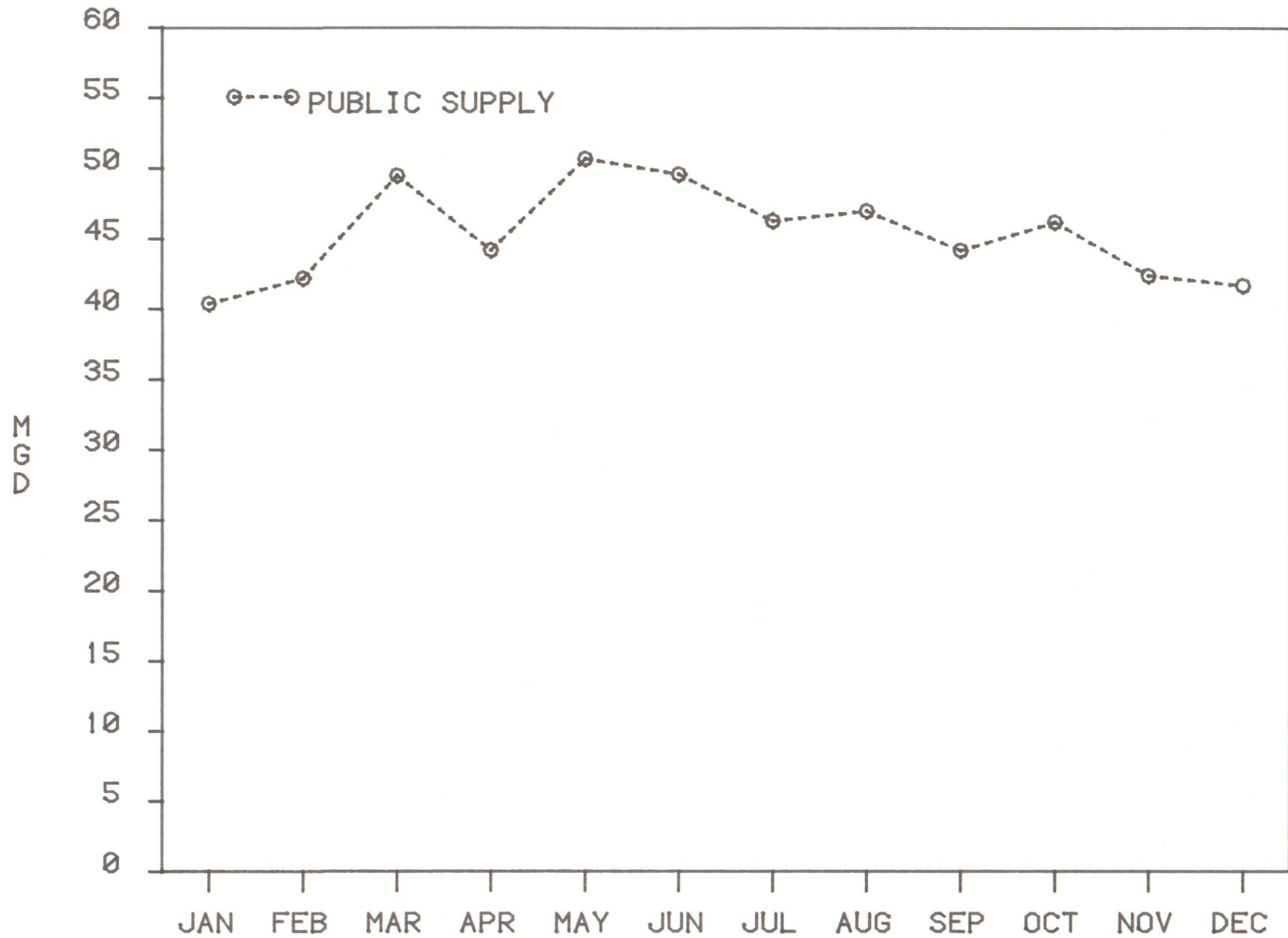


FIGURE A-6 MONTHLY FRESH WATER USE IN BREVARD COUNTY FOR 1985

COUNTY: Brevard - 1985

Total Population: 339,473

Total Land Area: 1,310 sq. miles

St. Johns River Water Management Portion

Population: 339,473

Population Public Supply: 301,979

Population Domestic Self-Supplied: 37,494

Gallons Per Capita Day: 150

Land Area: 1,310 sq. miles (636,800 acres)

Acres Farmed: 152,393

Acres Irrigated: 123,084

Fresh Water Use 1985 (MGD)

	GROUND	SURFACE	REUSE	TOTAL
Public	9.21(1)	14.09	-	23.30(1)
Domestic	5.62	0.0	-	5.62
Industrial	0.24	0.0	-	0.24
Agr. Irrigation	100.32	25.70	0.66	126.02(2)
Thermoelectric	0.31	0.0	-	0.31(3)
Heat Pump/air cond.	59.0	0.0	-	59.0
Free-flowing wells	26.0	0.0	-	26.0
TOTALS	200.70(1)	39.79	0.66	240.49(1)(2)

(1) Includes 0.02 MGD saline ground water used for R/O

(2) Reuse is not included in Total

(3) Does not include 1,157.88 MGD saline surface water from the Indian River used for cooling.

TABLE A-9 ACRES FARMED AND IRRIGATED

BREVARD COUNTY

1985 CALENDAR YEAR

CROP TYPE	TOTAL AC FARMED	IRRIGATED ACRES	SPRINKLER ACRES	TILE SEEPAGE ACRES	FLOOD & SEEPAGE ACRES	LOW PRESS LOW VOL ACRES
CABBAGE	0	0	0	0	0	0
CARROTS	4,000	4,000	0	0	4,000	0
CUCUMBERS	0	0	0	0	0	0
PEPPERS	0	0	0	0	0	0
POTATOES	300	300	0	0	300	0
TOMATOES	0	0	0	0	0	0
SWEET CORN	500	500	0	0	500	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	0	0	0	0	0	0
BLUEBERRIES	0	0	0	0	0	0
CITRUS	18,000	10,880	4,000	0	6,000	880
GRAPES	0	0	0	0	0	0
PEACHES	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
STRAWBERRIES	0	0	0	0	0	0
WATERMELONS	200	200	200	0	0	0
MISC. FRUIT	0	0	0	0	0	0
FIELD CORN	2,000	2,000	0	0	2,000	0
PEANUTS	0	0	0	0	0	0
SORGHUM	1,800	1,800	0	0	1,800	0
SOYBEANS	0	0	0	0	0	0
TOBACCO	0	0	0	0	0	0
WHEAT	1,000	1,000	0	0	1,000	0
MISC. GRAINS	0	0	0	0	0	0
FERNS	1	1	1	0	0	0
FLOWERS & FOLIAGE	10	10	10	0	0	0
WOODY ORNAMENTALS	190	190	190	0	0	0
IMPROVED PASTURE	121,700	100,000	0	0	100,000	0
SOD	1,000	1,000	500	0	500	0
TURF GRASS	1,692	1,203	1,203	0	0	0
	152,393	123,084	6,104	0	116,100	880

TABLE A-10 IRRIGATION WATER USE

BREVARD COUNTY

1985 CALENDAR YEAR

CROP TYPE	SPRINKLER INCHES PER/YR	SEEPAGE INCHES PER/YR	LOW PRESS INCHES PER/YR	TOTAL AC.FT	GROUND WATER M G D	SURFACE WATER M G D	RE-USED WATER M G D	TOTAL WATER M G D
CABBAGE	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
CARROTS	0.00	12.26	0.00	4,086	3.65	0.00	0.00	3.65
CUCUMBERS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PEPPERS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
POTATOES	0.00	14.21	0.00	355	0.32	0.00	0.00	0.32
TOMATOES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SWEET CORN	0.00	15.23	0.00	634	0.57	0.00	0.00	0.57
WATERCRESS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. VEGETABLES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
BLUEBERRIES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
CITRUS	17.46	27.93	15.52	20,923	14.94	3.74	0.00	18.68
GRAPES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PEACHES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PECANS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
STRAWBERRIES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WATERMELONS	14.40	0.00	0.00	240	0.18	0.04	0.00	0.22
MISC. FRUIT	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FIELD CORN	0.00	20.21	0.00	3,368	3.01	0.00	0.00	3.01
PEANUTS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SORGHUM	0.00	13.80	0.00	2,070	1.85	0.00	0.00	1.85
SOYBEANS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TOBACCO	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WHEAT	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. GRAINS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FERNS	65.00	0.00	0.00	5	0.00	0.00	0.00	0.00
FLOWERS & FOLIAGE	65.00	0.00	0.00	54	0.05	0.00	0.00	0.05
WOODY ORNAMENTALS	42.61	0.00	0.00	674	0.60	0.00	0.00	0.60
IMPROVED PASTURE	0.00	12.07	0.00	100,583	71.84	17.96	0.00	89.80
SOD	31.40	46.10	0.00	3,229	1.44	1.44	0.00	2.88
TURF GRASS	46.40	0.00	0.00	4,651	1.33	2.16	0.66	3.49
LIVESTOCK	0.00	0.00	0.00	1,000	0.54	0.36	0.00	0.90
FISH FARMING	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
				141,872	100.32	25.70	0.66	126.02

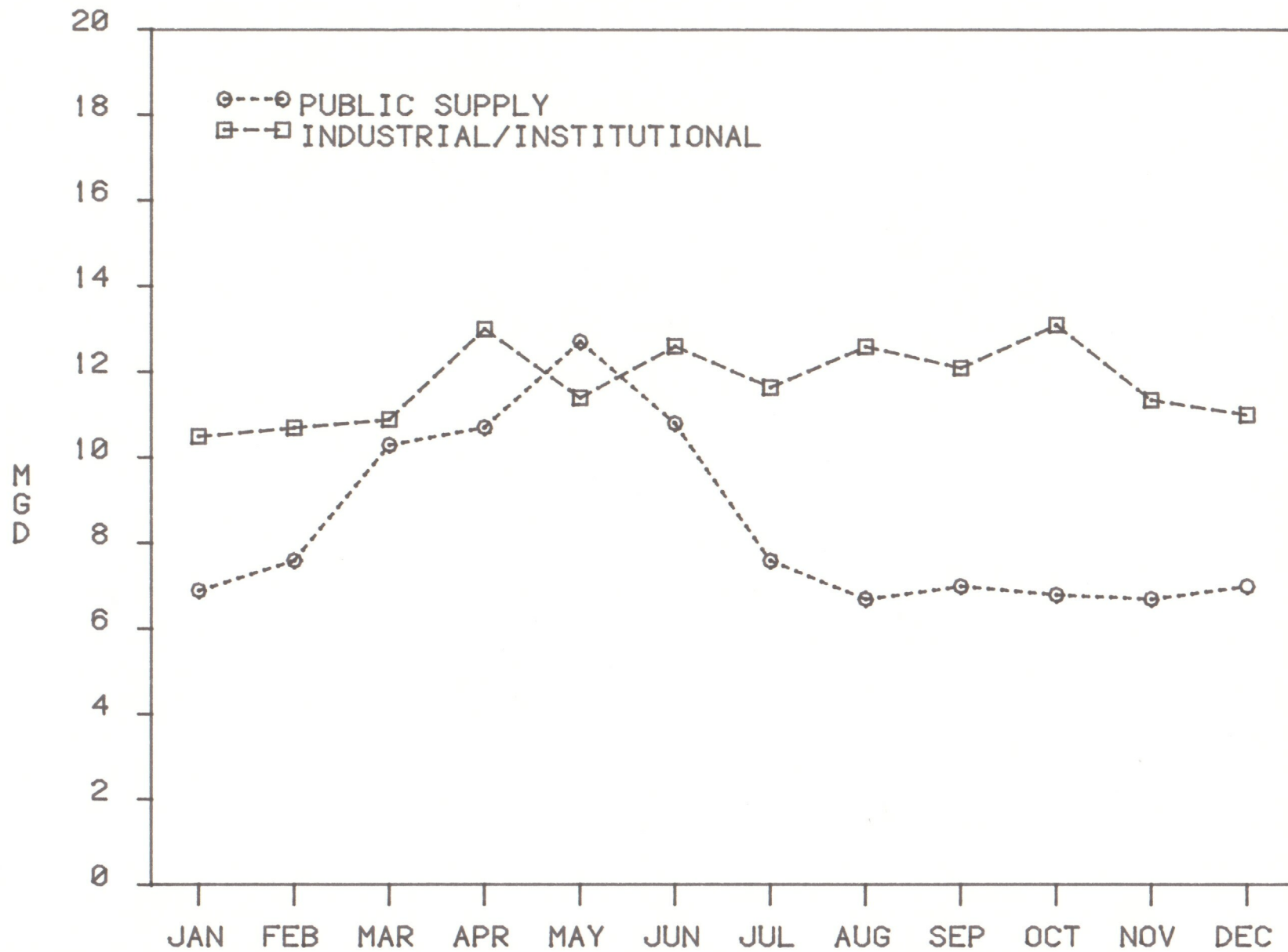


FIGURE A-7

MONTHLY FRESH WATER USE IN CLAY COUNTY FOR 1985

COUNTY: CLAY - 1985

Total Population: 85,358

Total Land Area: 644 sq. miles

St. Johns River Water Management Portion

Population: 85,358

Population Public Supply: 64,559

Population Domestic Self-Supplied: 20,799

Gallons Per Capita Day: 130

Land Area: 643 sq. miles (411,520 acres)

Acres Farmed: 43,779

Acres Irrigated: 518

Fresh Water Use 1985 (MGD)

	GROUND	SURFACE	REUSE	TOTAL
Public	8.40	0.0	-	8.40
Domestic	2.70	0.0	-	2.70
Industrial	7.31	4.43	-	11.74
Agr. Irrigation	2.85	0.88	-	3.73
Thermoelectric	0.0	0.0	-	0.0
Heat Pump/air cond.	0.0	0.0	-	0.0
Free-flowing wells	0.79	0.0	-	0.79
TOTALS	22.05	5.31	0.0	27.36

TABLE A-11 ACRES FARMED AND IRRIGATED

CROP TYPE	CLAY COUNTY					
	1985 CALENDAR YEAR					
	TOTAL AC FARMED	IRRIGATED ACRES	SPRINKLER ACRES	TILE SEEPAGE ACRES	FLOOD & SEEPAGE ACRES	LOW PRESS LOW VOL ACRES
CABBAGE	0	0	0	0	0	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	0	0	0	0	0	0
PEPPERS	0	0	0	0	0	0
POTATOES	0	0	0	0	0	0
TOMATOES	0	0	0	0	0	0
SWEET CORN	0	0	0	0	0	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	200	50	50	0	0	0
BLUEBERRIES	15	13	0	10	0	3
CITRUS	0	0	0	0	0	0
GRAPES	0	0	0	0	0	0
PEACHES	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
STRAWBERRIES	0	0	0	0	0	0
WATERMELONS	0	0	0	0	0	0
MISC. FRUIT	0	0	0	0	0	0
FIELD CORN	500	0	0	0	0	0
PEANUTS	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
WHEAT	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
WOODY ORNAMENTALS	0	0	0	0	0	0
IMPROVED PASTURE	40,000	275	100	0	175	0
SOD	0	0	0	0	0	0
TURF GRASS	214	130	130	0	0	0
	43,779	518	330	10	175	3

TABLE A-12 IRRIGATION WATER USE

CLAY COUNTY								
1985 CALENDAR YEAR								
CROP TYPE	SPRINKLER INCHES PER/YR	SEEPAGE INCHES PER/YR	LOW PRESS INCHES PER/YR	TOTAL AC.FT	GROUND WATER M G D	SURFACE WATER M G D	RE-USED WATER M G D	TOTAL WATER M G D
CABBAGE	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
CARROTS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
CUCUMBERS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PEPPERS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
POTATOES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TOMATOES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SWEET CORN	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WATERCRESS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. VEGETABLES	18.92	0.00	0.00	78	0.07	0.00	0.00	0.07
BLUEBERRIES	0.00	16.00	12.00	16	0.01	0.00	0.00	0.01
CITRUS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
GRAPES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PEACHES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PECANS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
STRAWBERRIES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WATERMELONS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. FRUIT	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FIELD CORN	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PEANUTS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SORGHUM	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SOYBEANS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TOBACCO	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WHEAT	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. GRAINS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FERNS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FLOWERS & FOLIAGE	65.00	0.00	0.00	270	0.24	0.00	0.00	0.24
WOODY ORNAMENTALS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
IMPROVED PASTURE	26.46	0.00	0.00	220	0.20	0.00	0.00	0.20
SOD	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TURF GRASS	70.00	0.00	0.00	758	0.43	0.25	0.00	0.68
LIVESTOCK	0.00	0.00	0.00	2,842	1.90	0.63	0.00	2.53
FISH FARMING	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
				4,184	2.85	0.88	0.00	3.73

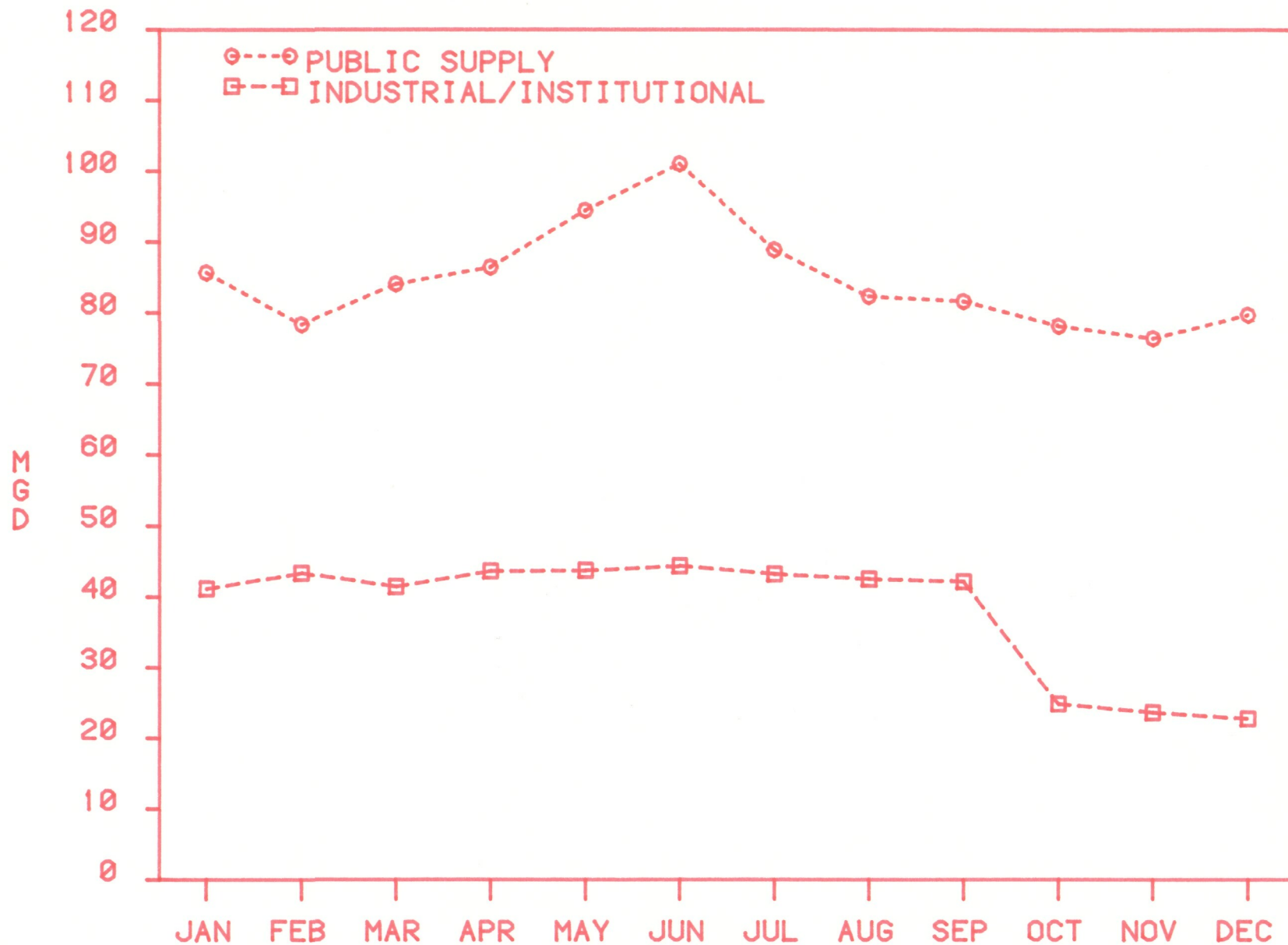


FIGURE A-8

MONTHLY FRESH WATER USE IN DUVAL COUNTY FOR 1985

A-8

COUNTY: DUVAL - 1985

Total Population: 624,084

Total Land Area: 840 sq. miles

St. Johns River Water Management Portion

Population: 624,084

Population Public Supply: 527,827

Population Domestic Self-Supplied: 96,257

Gallons Per Capita Day: 161

Land Area: 840 sq. miles (537,600 acres)

Acres Farmed: 15,814

Acres Irrigated: 2,332

Fresh Water Use 1985 (MGD)

	GROUND	SURFACE	REUSE	TOTAL
Public	84.86	0.0	-	84.86
Domestic	15.50	0.0	-	15.50
Industrial	38.08	0.0	-	38.08(1)
Agr. Irrigation	18.80	1.37	1.14	20.17(2)
Thermoelectric	2.06	0.0	-	2.06(3)
Heat Pump/air cond.	5.63	0.0	-	0.0
Free flowing wells	0.51	0.0	-	0.51
TOTALS	165.44	1.37	1.14	166.81(2)

- (1) Does not include 25.29 MGD saline surface water from the St. Johns River for industrial use.
- (2) Reuse is not included in Total
- (3) Does not include 454.13 MGD saline surface water from the St. Johns River for cooling.

TABLE A-13 ACRES FARMED AND IRRIGATED

DUVAL COUNTY

1985 CALENDAR YEAR

CROP TYPE	TOTAL AC FARMED	IRRIGATED ACRES	SPRINKLER ACRES	TILE SEEPAGE ACRES	FLOOD & SEEPAGE ACRES	LOW PRESS LOW VOL ACRES
CABBAGE	0	0	0	0	0	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	0	0	0	0	0	0
PEPPERS	0	0	0	0	0	0
POTATOES	0	0	0	0	0	0
TOMATOES	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	15	10	6	0	0	4
CITRUS	0	0	0	0	0	0
GRAPES	10	7	0	0	0	7
PEACHES	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
STRAWBERRIES	0	0	0	0	0	0
WATERMELONS	0	0	0	0	0	0
MISC. FRUIT	0	0	0	0	0	0
FIELD CORN	200	1	1	0	0	0
PEANUTS	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
WHEAT	0	0	0	0	0	0
MISC. GRAINS	0	0	0	0	0	0
FERNS	0	0	0	0	0	0
FLOWERS & FOLIAGE	15	15	0	0	0	15
WOODY ORNAMENTALS	57	57	42	0	0	15
IMPROVED PASTURE	12,000	500	460	0	40	0
SOD (1)	325	325	325	0	0	0
TURF GRASS	2,992	1,413	1,413	0	0	0
	15,814	2,332	2,251	0	40	41

TABLE A-14 IRRIGATION WATER USE

DUVAL COUNTY

1985 CALENDAR YEAR

CROP TYPE	SPRINKLER INCHES PER/YR	SEEPAGE INCHES PER/YR	LOW PRESS INCHES PER/YR	TOTAL AC.FT	GROUND WATER M G D	SURFACE WATER M G D	RE-USED WATER M G D	TOTAL WATER M G D
CABBAGE	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
CARROTS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
CUCUMBERS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PEPPERS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
POTATOES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TOMATOES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SWEET CORN	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WATERCRESS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. VEGETABLES	6.98	0.00	0.00	2	0.00	0.00	0.00	0.00
BLUEBERRIES	16.40	0.00	10.00	11	0.01	0.00	0.00	0.01
CITRUS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
GRAPES	0.00	0.00	19.83	11	0.01	0.00	0.00	0.01
PEACHES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PECANS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
STRAWBERRIES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WATERMELONS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. FRUIT	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FIELD CORN	15.65	0.00	0.00	1	0.00	0.00	0.00	0.00
PEANUTS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SORGHUM	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SOYBEANS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TOBACCO	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WHEAT	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. GRAINS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FERNS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FLOWERS & FOLIAGE	0.00	0.00	30.00	37	0.03	0.00	0.00	0.03
WOODY ORNAMENTALS	60.00	0.00	48.00	270	0.24	0.00	0.00	0.24
IMPROVED PASTURE	27.39	43.82	0.00	1,196	0.89	0.18	0.00	1.07
SOD	50.00	0.00	0.00	1,354	0.01	0.06	1.14	0.07
TURF GRASS	46.40	0.00	0.00	5,463	3.90	0.98	0.00	4.88
LIVESTOCK	0.00	0.00	0.00	3,360	2.85	0.15	0.00	3.00
AESTHETIC/WILDLIFE	0.00	0.00	0.00	12,165	10.86	0.00	0.00	10.86
				23,870	18.80	1.37	1.14	20.17

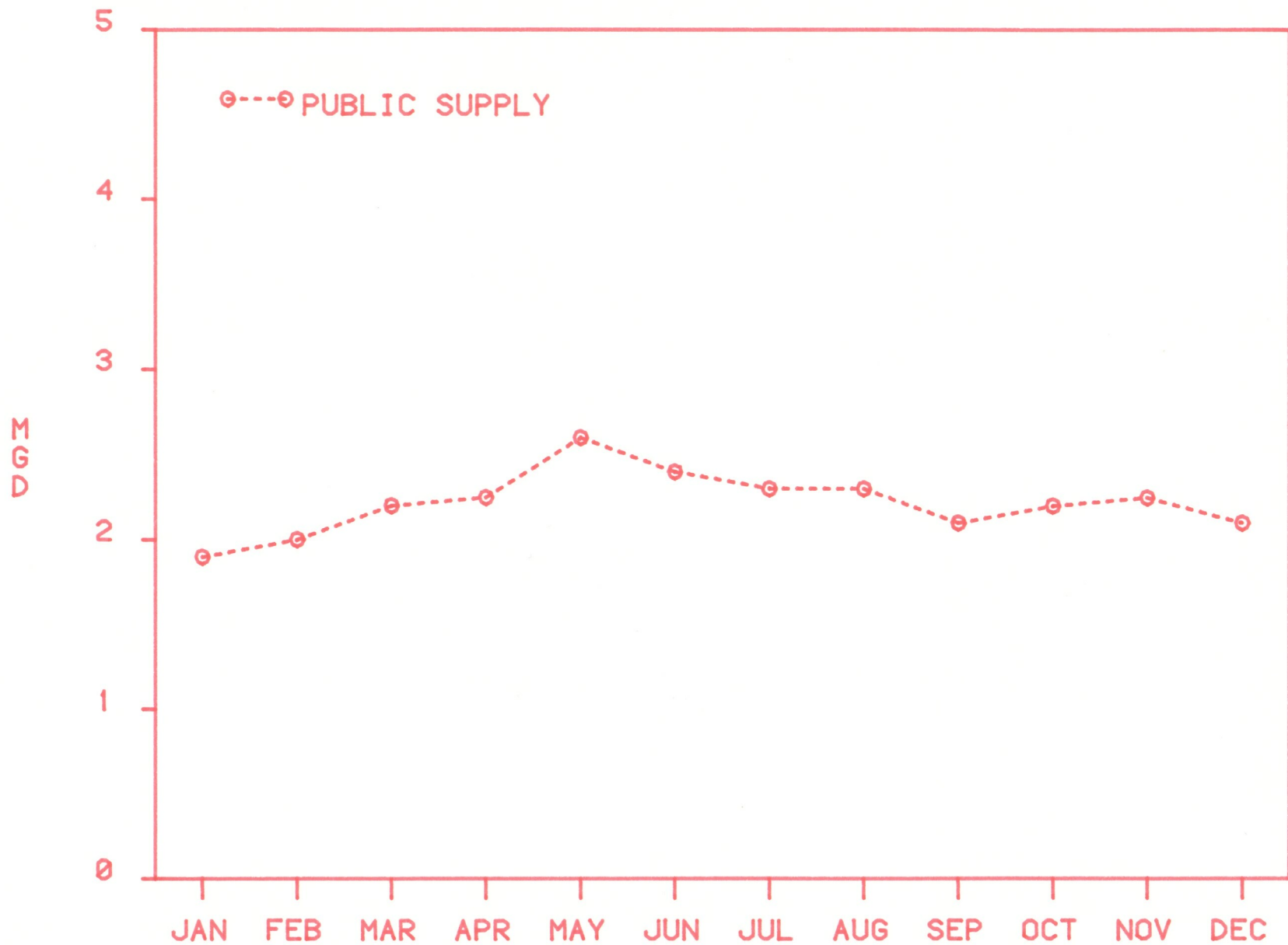


FIGURE A-9

MONTHLY FRESH WATER USE IN FLAGLER COUNTY FOR 1985

COUNTY: FLAGLER - 1985

Total Population: 16,046

Total Land Area: 504 sq. miles

St. Johns River Water Management Portion

Population: 16,046

Population Public Supply: 14,089

Population Domestic Self-Supplied: 1,957

Gallons Per Capita Day: 157

Land Area: 504 sq. miles (322,560 acres)

Acres Farmed: 23,845

Acres Irrigated: 5,845

Fresh Water Use 1985 (MGD)

	GROUND	SURFACE	REUSE	TOTAL
Public	2.22	0.0	-	2.22
Domestic	0.31	0.0	-	0.31
Industrial	0.10	0.0	-	0.10
Agr. Irrigation	6.31	0.93	-	7.24
Thermoelectric	0.0	0.0	-	0.0
Heat Pump/air cond.	0.0	0.0	-	0.0
Free-flowing wells	0.08	0.0	-	0.08
TOTALS	9.02	0.93	0.0	9.95

TABLE A-15 ACRES FARMED AND IRRIGATED

FLAGLER COUNTY

1985 CALENDAR YEAR

CROP TYPE	TOTAL AC FARMED	IRRIGATED ACRES	SPRINKLER ACRES	TILE SEEPAGE ACRES	FLOOD & SEEPAGE ACRES	LOW PRESS LOW VOL ACRES
CABBAGE	2,000	2,000	1,200	0	800	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	0	0	0	0	0	0
PEPPERS	100	100	0	0	100	0
POTATOES	1,900	1,900	0	0	1,900	0
TOMATOES	0	0	0	0	0	0
SWEET CORN	0	0	0	0	0	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	1,000	1,000	1,000	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
PECANS	0	0	0	0	0	0
STRAWBERRIES	0	0	0	0	0	0
WATERMELONS	100	100	100	0	0	0
MISC. FRUIT	0	0	0	0	0	0
FIELD CORN	400	400	0	0	400	0
PEANUTS	0	0	0	0	0	0
SORGHUM	1,500	0	0	0	0	0
SOYBEANS	0	0	0	0	0	0
TOBACCO	0	0	0	0	0	0
WHEAT	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
WOODY ORNAMENTALS	0	0	0	0	0	0
IMPROVED PASTURE	16,500	0	0	0	0	0
SOD	50	50	50	0	0	0
TURF GRASS	295	295	295	0	0	0
	23,845	5,845	2,645	0	3,200	0

TABLE A-16 IRRIGATION WATER USE

FLAGLER COUNTY

1985 CALENDAR YEAR

CROP TYPE	SPRINKLER INCHES PER/YR	SEEPAGE INCHES PER/YR	LOW PRESS INCHES PER/YR	TOTAL AC.FT	GROUND WATER M G D	SURFACE WATER M G D	RE-USED WATER M G D	TOTAL WATER M G D
CABBAGE	11.72	17.47	0.00	2,336	2.09	0.00	0.00	2.09
CARROTS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
CUCUMBERS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PEPPERS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
POTATOES	0.00	19.59	0.00	3,101	2.77	0.00	0.00	2.77
TOMATOES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SWEET CORN	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WATERCRESS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. VEGETABLES	3.02	0.00	0.00	251	0.22	0.00	0.00	0.22
BLUEBERRIES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
CITRUS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
GRAPES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PEACHES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PECANS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
STRAWBERRIES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WATERMELONS	14.40	0.00	0.00	120	0.11	0.00	0.00	0.11
MISC. FRUIT	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FIELD CORN	0.00	25.53	0.00	851	0.76	0.00	0.00	0.76
PEANUTS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SORGHUM	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SOYBEANS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TOBACCO	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WHEAT	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. GRAINS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FERNS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FLOWERS & FOLIAGE	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WOODY ORNAMENTALS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
IMPROVED PASTURE	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SOD	27.50	0.00	0.00	114	0.10	0.00	0.00	0.10
TURF GRASS	49.13	0.00	0.00	1,207	0.19	0.88	0.00	1.07
LIVESTOCK	0.00	0.00	0.00	135	0.07	0.05	0.00	0.12
FISH FARMING	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
				8,115	6.31	0.93	0.00	7.24

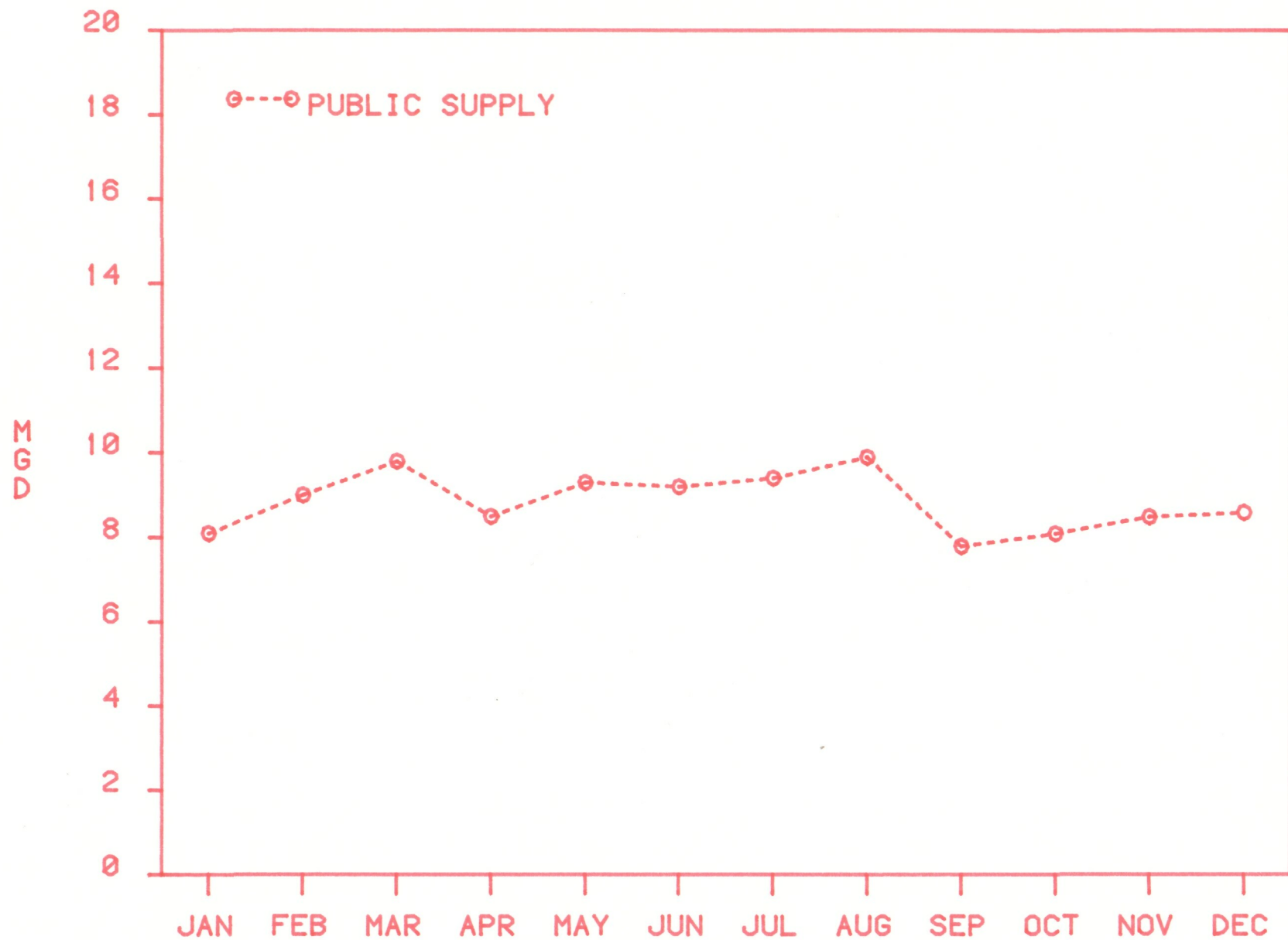


FIGURE A-10 MONTHLY FRESH WATER USE IN INDIAN RIVER COUNTY FOR 1985

COUNTY: INDIAN RIVER - 1985

Total Population: 76,442

Total Land Area: 549 sq. miles

St. Johns River Water Management Portion

Population: 76,442

Population Public Supply: 41,878

Population Domestic Self-Supplied: 34,564

Gallons Per Capita Day: 211

Land Area: 549 sq. miles (351,360 acres)

Acres Farmed: 137,783

Acres Irrigated: 75,480

Fresh Water Use 1985 (MGD)

	GROUND	SURFACE	REUSE	TOTAL
Public	8.84(1)	0.0	-	8.84(1)
Domestic	7.29	0.0	-	7.29
Industrial	0.12	0.0	-	0.12
Agr. Irrigation	28.43	107.18	0.77	135.61(2)
Thermoelectric	0.31	0.0	-	0.31(3)
Heat Pump/air cond.	0.0	0.0	-	0.0
Free-flowing wells	0.49	0.0	-	0.49
TOTALS	45.48(1)	107.18	0.77	152.66(1)(2)

(1) Includes 0.97 MGD saline ground water used for R/O

(2) Reuse is not included in Total

(3) Does not include 18.44 MGD saline surface water from the Indian River used for cooling.

TABLE A-17 ACRES FARMED AND IRRIGATED

INDIAN RIVER COUNTY

1985 CALENDAR YEAR

CROP TYPE	TOTAL AC FARMED	IRRIGATED ACRES	SPRINKLER ACRES	TILE SEEPAGE ACRES	FLOOD & SEEPAGE ACRES	LOW PRESS LOW VOL ACRES
CABBAGE	150	150	0	0	150	0
CARROTS	300	300	0	0	300	0
CUCUMBERS	5	5	0	0	0	5
PEPPERS	0	0	0	0	0	0
POTATOES	0	0	0	0	0	0
TOMATOES	10	10	0	0	0	10
SWEET CORN	400	400	0	0	400	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	900	900	0	0	900	0
BLUEBERRIES	0	0	0	0	0	0
CITRUS	63,250	61,455	215	0	35,140	26,100
GRAPES	0	0	0	0	0	0
PEACHES	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
STRAWBERRIES	40	40	0	0	40	0
WATERMELONS	100	100	0	0	100	0
MISC. FRUIT	0	0	0	0	0	0
FIELD CORN	7,100	7,100	0	7,100	0	0
PEANUTS	0	0	0	0	0	0
RICE	200	200	0	0	200	0
SORGHUM	150	150	0	0	150	0
SOYBEANS	0	0	0	0	0	0
TOBACCO	0	0	0	0	0	0
WHEAT	0	0	0	0	0	0
MISC. GRAINS	150	150	0	0	150	0
FERNS	0	0	0	0	0	0
FLOWERS & FOLIAGE	0	0	0	0	0	0
WOODY ORNAMENTALS	0	0	0	0	0	0
IMPROVED PASTURE	62,208	2,500	0	0	2,500	0
SOD	900	900	450	0	450	0
TURF GRASS	1,920	1,120	1,120	0	0	0
	137,783	75,480	1,785	7,100	40,480	26,115

TABLE A-18 IRRIGATION WATER USE

INDIAN RIVER COUNTY

1985 CALENDAR YEAR

CROP TYPE	SPRINKLER INCHES PER/YR	SEEPAGE INCHES PER/YR	LOW PRESS INCHES PER/YR	TOTAL AC.FT	GROUND WATER M G D	SURFACE WATER M G D	RE-USED WATER M G D	TOTAL WATER M G D
CABBAGE	0.00	17.47	0.00	218	0.19	0.00	0.00	0.19
CARROTS	0.00	12.26	0.00	306	0.27	0.00	0.00	0.27
CUCUMBERS	0.00	0.00	9.03	3	0.00	0.00	0.00	0.00
PEPPERS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
POTATOES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TOMATOES	0.00	0.00	13.00	10	0.01	0.00	0.00	0.01
SWEET CORN	0.00	15.23	0.00	507	0.09	0.36	0.00	0.45
WATERCRESS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. VEGETABLES	0.00	24.67	0.00	1,850	0.33	1.32	0.00	1.65
BLUEBERRIES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
CITRUS	19.06	30.50	16.94	126,500	24.85	88.09	0.00	112.94
GRAPES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PEACHES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PECANS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
STRAWBERRIES	0.00	15.42	0.00	51	0.05	0.00	0.00	0.05
WATERMELONS	0.00	18.00	0.00	150	0.13	0.00	0.00	0.13
MISC. FRUIT	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FIELD CORN	0.00	20.21	0.00	11,957	0.00	10.67	0.00	10.67
PEANUTS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
RICE	0.00	26.00	0.00	433	0.00	0.39	0.00	0.39
SORGHUM	0.00	20.21	0.00	252	0.00	0.22	0.00	0.22
SOYBEANS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TOBACCO	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WHEAT	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. GRAINS	0.00	20.21	0.00	252	0.22	0.00	0.00	0.22
FERNS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FLOWERS & FOLIAGE	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WOODY ORNAMENTALS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
IMPROVED PASTURE	0.00	12.07	0.00	2,514	0.90	1.35	0.00	2.25
SOD	31.40	47.50	0.00	2,958	0.26	2.38	0.00	2.64
TURF GRASS	46.40	0.00	0.00	4,330	0.97	2.13	0.77	3.10
LIVESTOCK	0.00	0.00	0.00	404	0.09	0.27	0.00	0.36
FISH FARMING	0.00	0.00	0.00	81	0.07	0.00	0.00	0.07
				152,776	28.43	107.18	0.77	135.61

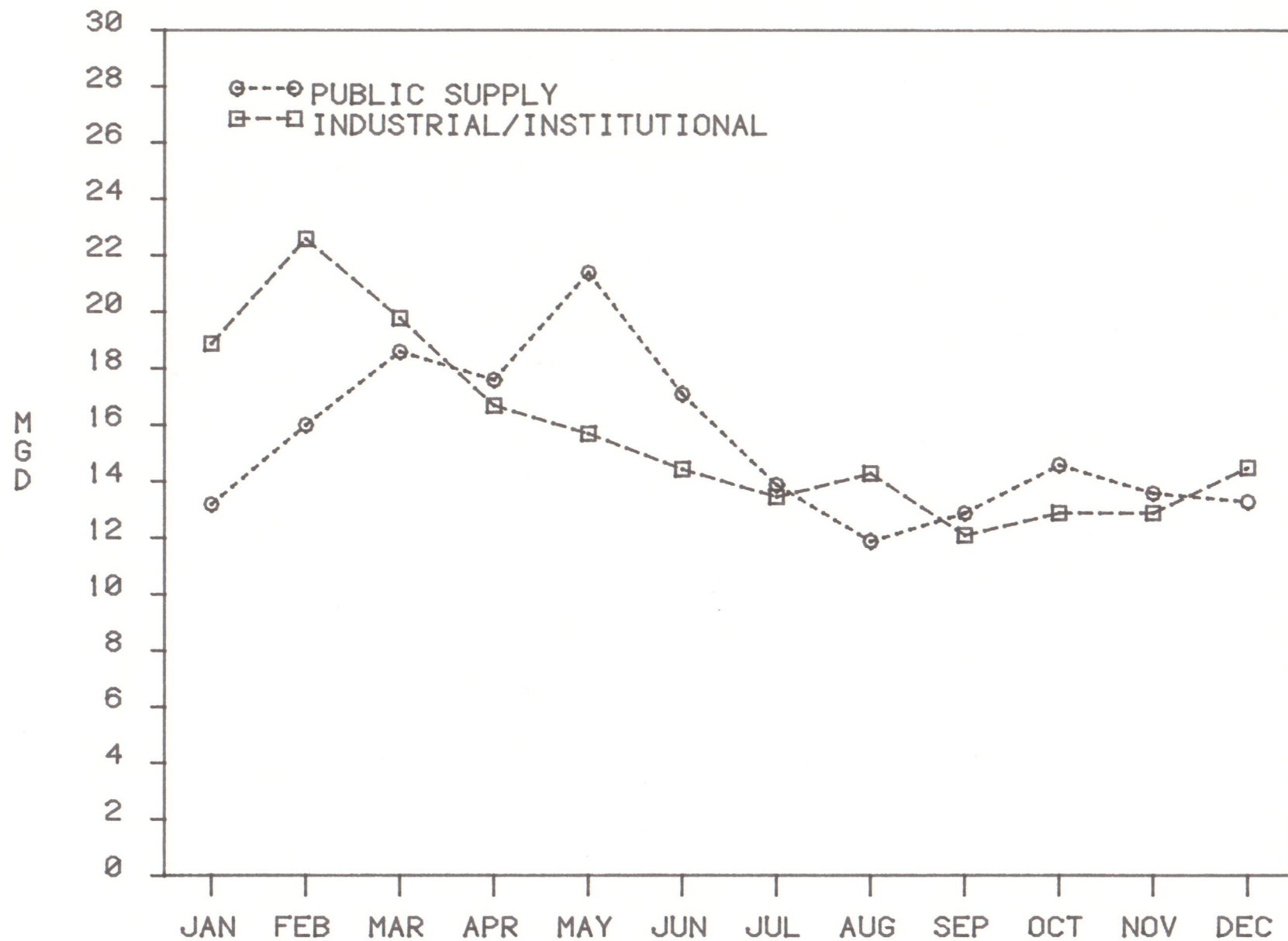


FIGURE A-11

MONTHLY FRESH WATER USE IN LAKE COUNTY FOR 1985

COUNTY: LAKE - 1985

Total Population: 124,278

Total Land Area: 1,163 sq. miles

St. Johns River Water Management Portion

Population: 123,050

Population Public Supply: 79,934

Population Domestic Self-Supplied: 43,116

Gallons Per Capita Day: 192

Land Area: 1,059 sq. miles (677,760 acres)

Acres Farmed: 78,002

Acres Irrigated: 23,850

Fresh Water Use 1985 (MGD)

	GROUND	SURFACE	REUSE	TOTAL
Public	15.34	0.0	-	15.34
Domestic	8.28	0.0	-	8.28
Industrial	12.24	3.41	-	15.65
Agr. Irrigation	28.43	4.84	2.48	33.27(1)
Thermoelectric	0.0	0.0	-	0.0
Heat Pump/air cond.	0.0	0.0	-	0.0
Free-flowing wells	0.49	0.0	-	0.49
TOTALS	64.78	8.25	2.48	73.03(1)

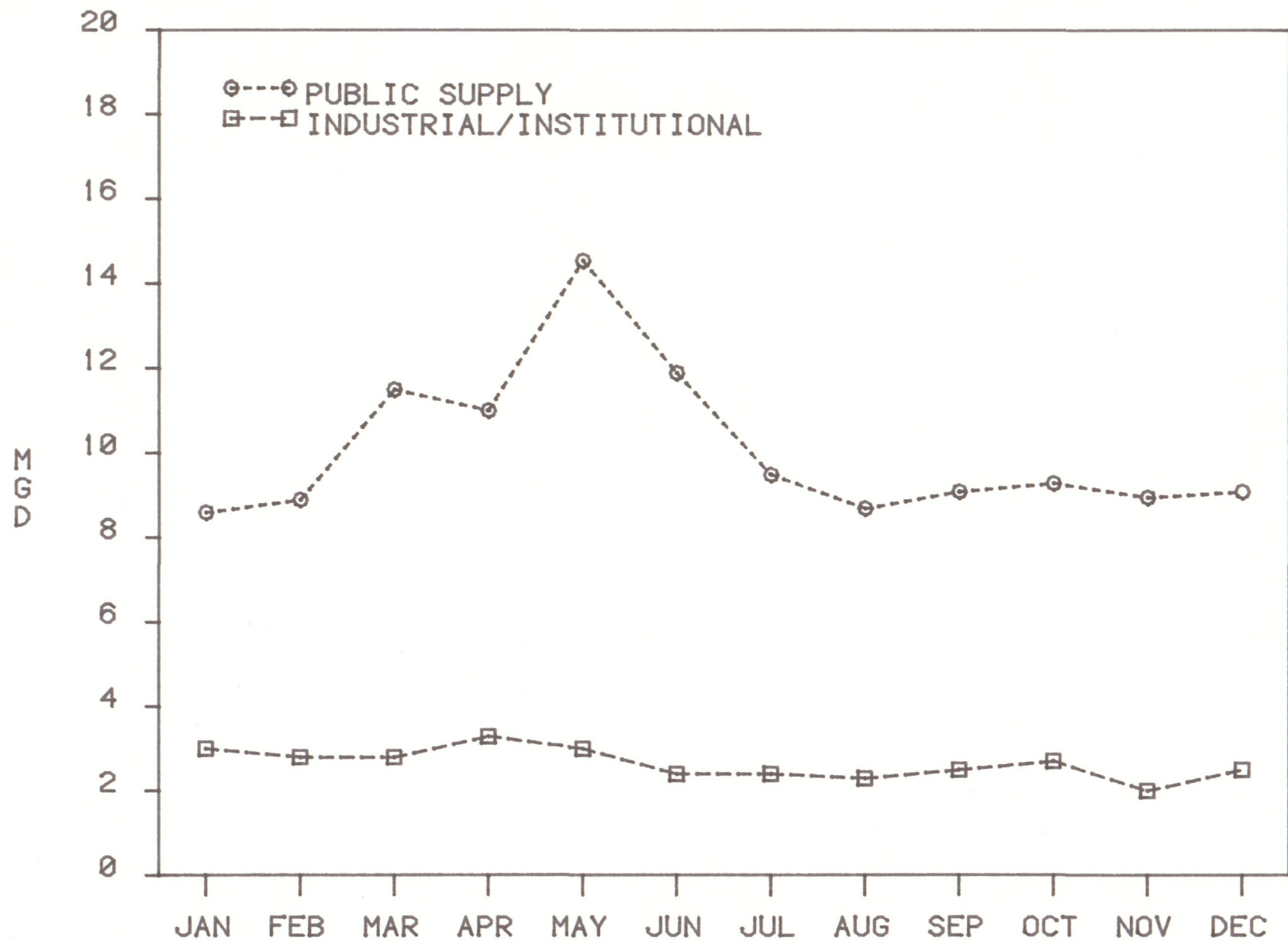
(1) Reuse is not included in Total

TABLE A-19 ACRES FARMED AND IRRIGATED

CROP TYPE	LAKE		COUNTY		1985 CALENDAR YEAR	
	TOTAL AC	IRRIGATED	SPRINKLER	TILE	FLOOD &	LOW PRESS
	FARMED	ACRES	ACRES	SEEPAGE ACRES	SEEPAGE ACRES	LOW VOL ACRES
CABBAGE	200	200	100	0	100	0
CARROTS	2,400	2,400	0	0	2,400	0
CUCUMBERS	200	200	130	0	70	0
PEPPERS	100	100	100	0	0	0
POTATOES	0	0	0	0	0	0
TOMATOES	10	10	10	0	0	0
SWEET CORN	5,000	5,000	0	0	5,000	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	2,280	2,280	610	0	1,670	0
BLUEBERRIES	5	5	0	0	2	3
CITRUS	12,000	10,000	5,000	0	0	5,000
GRAPES	0	0	0	0	0	0
PEACHES	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
STRAWBERRIES	10	10	10	0	0	0
WATERMELONS	1,000	1,000	1,000	0	0	0
MISC. FRUIT	0	0	0	0	0	0
FIELD CORN	2,000	500	300	0	200	0
PEANUTS	0	0	0	0	0	0
SORGHUM	300	150	150	0	0	0
SOYBEANS	0	0	0	0	0	0
TOBACCO	0	0	0	0	0	0
WHEAT	0	0	0	0	0	0
MISC. GRAINS	0	0	0	0	0	0
FERNS	400	400	400	0	0	0
FLOWERS & FOLIAGE	120	120	0	0	0	120
WOODY ORNAMENTALS	500	500	475	0	0	25
IMPROVED PASTURE	50,000	320	320	0	0	0
SOD	40	40	0	0	40	0
TURF GRASS	1,437	615	615	0	0	0
	78,002	23,850	9,220	0	9,482	5,148

TABLE A-20 IRRIGATION WATER USE

CROP TYPE	LAKE		COUNTY		1985 CALENDAR YEAR			
	SPRINKLER	SEEPAGE	LOW PRESS	TOTAL	GROUND	SURFACE	RE-USED	TOTAL
	INCHES PER/YR	INCHES PER/YR	INCHES PER/YR	AC.FT	WATER M G D	WATER M G D	WATER M G D	WATER M G D
CABBAGE	0.00	12.07	0.00	100	0.09	0.00	0.00	0.09
CARROTS	0.00	12.26	0.00	2,452	2.19	0.00	0.00	2.19
CUCUMBERS	0.00	12.07	0.00	70	0.06	0.00	0.00	0.06
PEPPERS	11.70	0.00	0.00	97	0.09	0.00	0.00	0.09
POTATOES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TOMATOES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SWEET CORN	0.00	15.39	0.00	6,412	4.58	1.14	0.00	5.72
WATERCRESS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. VEGETABLES	15.42	24.67	0.00	4,217	3.76	0.00	0.00	3.76
BLUEBERRIES	0.00	25.00	20.34	9	0.01	0.00	0.00	0.01
CITRUS	17.68	0.00	15.71	13,912	9.94	2.48	0.00	12.42
GRAPES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PEACHES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PECANS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
STRAWBERRIES	18.00	0.00	0.00	15	0.01	0.00	0.00	0.01
WATERMELONS	14.00	0.00	0.00	1,166	1.04	0.00	0.00	1.04
MISC. FRUIT	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FIELD CORN	15.39	15.23	0.00	638	0.46	0.11	0.00	0.57
PEANUTS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SORGHUM	9.68	0.00	0.00	121	0.11	0.00	0.00	0.11
SOYBEANS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TOBACCO	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WHEAT	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. GRAINS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FERNS	65.00	0.00	0.00	2,166	1.93	0.00	0.00	1.93
FLOWERS & FOLIAGE	0.00	0.00	39.26	392	0.35	0.00	0.00	0.35
WOODY ORNAMENTALS	60.00	0.00	48.00	2,475	2.21	0.00	0.00	2.21
IMPROVED PASTURE	104.00	0.00	0.00	2,773	0.00	0.00	2.48	0.00
SOD	0.00	38.41	0.00	128	0.11	0.00	0.00	0.11
TURF GRASS	40.80	0.00	0.00	2,091	1.12	0.75	0.00	1.87
LIVESTOCK	0.00	0.00	0.00	820	0.37	0.36	0.00	0.73
FISH FARMING	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
				40,054	28.43	4.84	2.48	33.27



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FIGURE A-12 MONTHLY FRESH WATER USE IN MARION COUNTY FOR 1985

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COUNTY: MARION - 1985

Total Population: 157,853

Total Land Area: 1,652 sq. miles

St. Johns River Water Management Portion

Population: 127,609

Population Public Supply: 61,649

Population Domestic Self-Supplied: 65,960

Gallons Per Capita Day: 174

Land Area: 1,194 sq. miles (764,160 acres)

Acres Farmed: 71,595

Acres Irrigated: 4,200

Fresh Water Use 1985 (MGD)

	GROUND	SURFACE	REUSE	TOTAL
Public	10.10	0.0	-	10.10
Domestic	11.48	0.0	-	11.48
Industrial	0.71	1.93	-	2.64
Agr. Irrigation	7.55	1.17	0.48	8.72(1)
Thermoelectric	0.0	0.0	-	0.0
Heat Pump/air cond.	0.0	0.0	-	0.0
Free-flowing wells	1.71	0.0	-	1.71
 TOTALS	 31.55	 3.10	 0.48	 34.65(1)

(1) Reuse is not included in Total

TABLE A-21 ACRES FARMED AND IRRIGATED

MARION COUNTY

1985 CALENDAR YEAR

CROP TYPE	TOTAL AC FARMED	IRRIGATED ACRES	SPRINKLER ACRES	TILE SEEPAGE ACRES	FLOOD & SEEPAGE ACRES	LOW PRESS LOW VOL ACRES
CABBAGE	0	0	0	0	0	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	0	0	0	0	0	0
PEPPERS	0	0	0	0	0	0
POTATOES	0	0	0	0	0	0
TOMATOES	0	0	0	0	0	0
SWEET CORN	40	40	40	0	0	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	1,700	580	580	0	0	0
BLUEBERRIES	60	50	40	0	0	10
CITRUS	300	250	0	0	0	250
GRAPES	70	60	60	0	0	0
PEACHES	5	5	5	0	0	0
PECANS	10	0	0	0	0	0
STRAWBERRIES	0	0	0	0	0	0
WATERMELONS	1,150	600	600	0	0	0
MISC. FRUIT	0	0	0	0	0	0
FIELD CORN	3,000	1,320	224	0	1,096	0
PEANUTS	2,000	0	0	0	0	0
SORGHUM	300	0	0	0	0	0
SOYBEANS	0	0	0	0	0	0
TOBACCO	0	0	0	0	0	0
WHEAT	0	0	0	0	0	0
MISC. GRAINS	1,500	0	0	0	0	0
FERNS	20	15	15	0	0	0
FLOWERS & FOLIAGE	10	10	10	0	0	0
WOODY ORNAMENTALS	50	50	50	0	0	0
IMPROVED PASTURE	59,230	70	0	0	70	0
SOD	650	650	650	0	0	0
TURF GRASS	1,500	500	500	0	0	0
	71,595	4,200	2,774	0	1,166	260

TABLE A-22 IRRIGATION WATER USE

MARION COUNTY

1985 CALENDAR YEAR

CROP TYPE	SPRINKLER INCHES PER/YR	SEEPAGE INCHES PER/YR	LOW PRESS INCHES PER/YR	TOTAL AC.FT	GROUND WATER M G D	SURFACE WATER M G D	RE-USED WATER M G D	TOTAL WATER M G D
CABBAGE	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
CARROTS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
CUCUMBERS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PEPPERS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
POTATOES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TOMATOES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SWEET CORN	15.85	0.00	0.00	52	0.05	0.00	0.00	0.05
WATERCRESS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. VEGETABLES	8.13	0.00	0.00	392	0.35	0.00	0.00	0.35
BLUEBERRIES	24.16	0.00	20.34	97	0.09	0.00	0.00	0.09
CITRUS	0.00	0.00	16.36	340	0.30	0.00	0.00	0.30
GRAPES	23.71	0.00	0.00	118	0.11	0.00	0.00	0.11
PEACHES	34.70	0.00	0.00	14	0.01	0.00	0.00	0.01
PECANS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
STRAWBERRIES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WATERMELONS	14.40	0.00	0.00	720	0.64	0.00	0.00	0.64
MISC. FRUIT	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FIELD CORN	15.33	24.52	0.00	2,525	1.80	0.45	0.00	2.25
PEANUTS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SORGHUM	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SOYBEANS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TOBACCO	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WHEAT	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. GRAINS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FERNS	65.00	0.00	0.00	81	0.07	0.00	0.00	0.07
FLOWERS & FOLIAGE	70.00	0.00	0.00	58	0.05	0.00	0.00	0.05
WOODY ORNAMENTALS	70.00	0.00	0.00	291	0.26	0.00	0.00	0.26
IMPROVED PASTURE	0.00	46.90	0.00	273	0.19	0.05	0.00	0.24
SOD	31.40	0.00	0.00	1,700	1.52	0.00	0.00	1.52
TURF GRASS	54.50	0.00	0.00	2,270	1.01	0.61	0.41	1.62
LIVESTOCK	0.00	0.00	0.00	1,292	1.10	0.06	0.00	1.16
FISH FARMING	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
				10,223	7.55	1.17	0.41	8.72

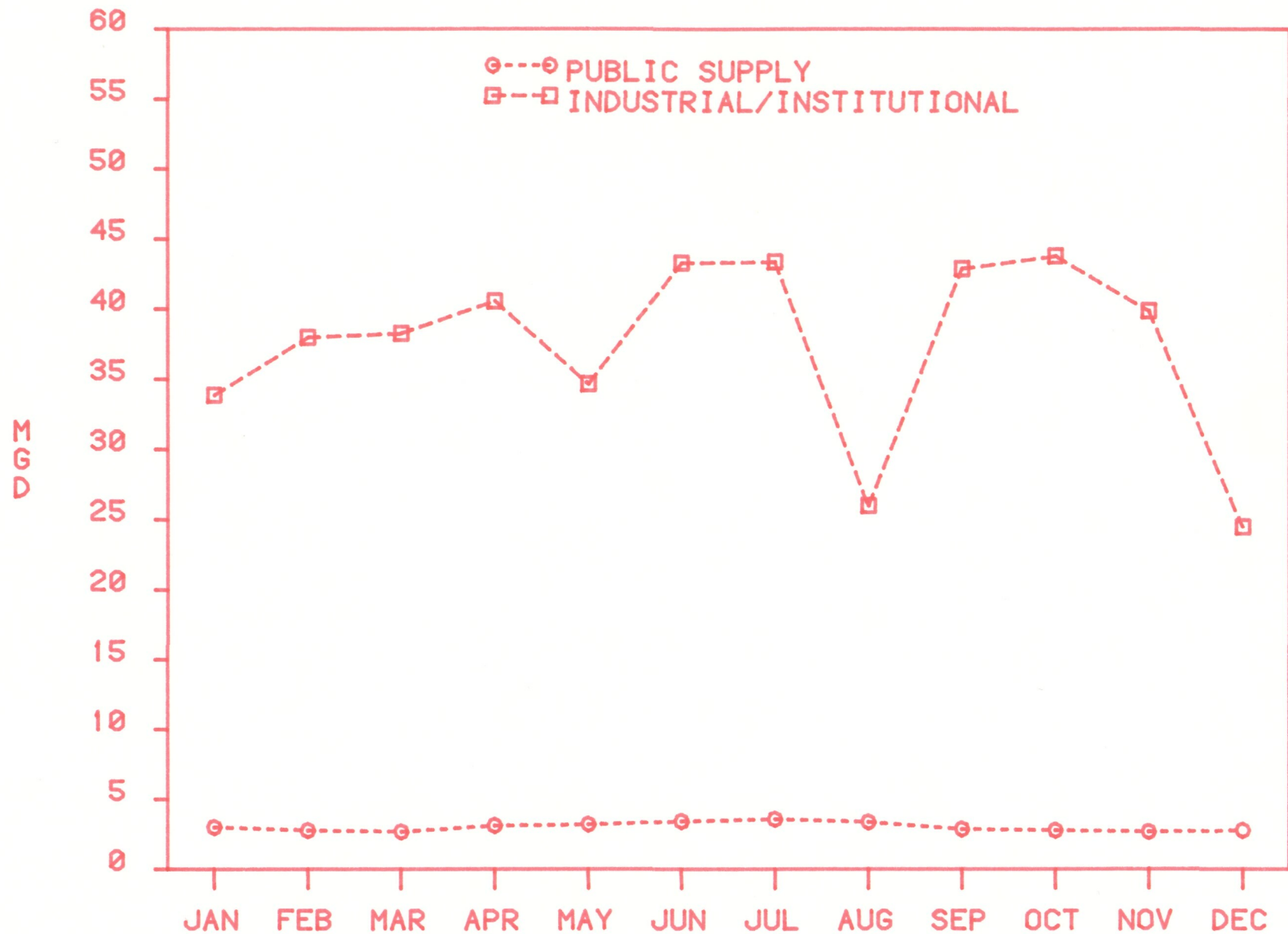


FIGURE A-13

MONTHLY FRESH WATER USE IN NASSAU COUNTY FOR 1985

COUNTY: NASSAU - 1985

Total Population: 39,822

Total Land Area: 671 sq. miles

St. Johns River Water Management Portion

Population: 39,822

Population Public Supply: 17,293

Population Domestic Self-Supplied: 22,529

Gallons Per Capita Day: 176

Land Area: 671 sq. miles (429,440 acres)

Acres Farmed: 7,186

Acres Irrigated: 465

Fresh Water Use 1985 (MGD)

	GROUND	SURFACE	REUSE	TOTAL
Public	3.04	0.0	-	3.04
Domestic	3.97	0.0	-	3.97
Industrial	37.40	0.0	-	37.40 (1)
Agr. Irrigation	1.73	0.93	0.33	2.66 (2)
Thermoelectric	0.0	0.0	-	0.0
Heat Pump/air cond.	0.0	0.0	-	0.0
Free-flowing wells	0.02	0.0	-	0.02
TOTALS	46.16	0.93	0.33	47.09 (2)

(1) Does not include 1.58 MGD saline surface water from the Amelia River for Industrial Use.

(2) Reuse use is not included in Total

TABLE A-23 ACRES FARMED AND IRRIGATED

NASSAU COUNTY

1985 CALENDAR YEAR

CROP TYPE	TOTAL AC FARMED	IRRIGATED ACRES	SPRINKLER ACRES	TILE SEEPAGE ACRES	FLOOD & SEEPAGE ACRES	LOW PRESS LOW VOL ACRES
CABBAGE	0	0	0	0	0	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	0	0	0	0	0	0
PEPPERS	0	0	0	0	0	0
POTATOES	0	0	0	0	0	0
TOMATOES	0	0	0	0	0	0
SWEET CORN	0	0	0	0	0	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	100	0	0	0	0	0
BLUEBERRIES	30	15	15	0	0	0
CITRUS	0	0	0	0	0	0
GRAPES	0	0	0	0	0	0
PEACHES	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
STRAWBERRIES	0	0	0	0	0	0
WATERMELONS	5	0	0	0	0	0
MISC. FRUIT	0	0	0	0	0	0
FIELD CORN	500	50	50	0	0	0
PEANUTS	0	0	0	0	0	0
SORGHUM	1,000	0	0	0	0	0
SOYBEANS	0	0	0	0	0	0
TOBACCO	37	0	0	0	0	0
WHEAT	0	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
WOODY ORNAMENTALS	3	0	0	0	0	0
IMPROVED PASTURE	5,000	0	0	0	0	0
SOD	0	0	0	0	0	0
TURF GRASS	491	380	380	0	0	0
	7,186	465	465	0	0	0

TABLE A-24 IRRIGATION WATER USE

NASSAU COUNTY

1985 CALENDAR YEAR

CROP TYPE	SPRINKLER INCHES PER/YR	SEEPAGE INCHES PER/YR	LOW PRESS INCHES PER/YR	TOTAL AC.FT	GROUND WATER M G D	SURFACE WATER M G D	RE-USED WATER M G D	TOTAL WATER M G D
CABBAGE	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
CARROTS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
CUCUMBERS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PEPPERS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
POTATOES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TOMATOES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SWEET CORN	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WATERCRESS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. VEGETABLES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
BLUEBERRIES	16.40	0.00	0.00	20	0.02	0.00	0.00	0.02
CITRUS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
GRAPES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PEACHES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PECANS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
STRAWBERRIES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WATERMELONS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. FRUIT	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FIELD CORN	16.84	0.00	0.00	70	0.06	0.00	0.00	0.06
PEANUTS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SORGHUM	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SOYBEANS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TOBACCO	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WHEAT	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. GRAINS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FERNS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FLOWERS & FOLIAGE	65.00	0.00	0.00	108	0.10	0.00	0.00	0.10
WOODY ORNAMENTALS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
IMPROVED PASTURE	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SOD	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TURF GRASS	46.18	0.00	0.00	1,462	0.72	0.10	0.48	0.82
LIVESTOCK	0.00	0.00	0.00	1,865	0.83	0.83	0.00	1.66
FISH FARMING	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
				3,525	1.73	0.93	0.48	2.66

THE PUBLIC AND INDUSTRIAL PUMPAGE IN OKEECHOBEE COUNTY
WITHIN THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
FOR 1985 WAS TOO SMALL TO DEPICT.

COUNTY: OKEECHOBEE - 1985

Total Population: 24,545

Total Land Area: 780 sq. miles

St. Johns River Water Management Portion

Population: 400

Population Public Supply: -0-

Population Domestic Self-Supplied: 400

Gallons Per Capita Day: 163 - District Average

Land Area: 103 sq. miles (65,920 acres)

Acres Farmed: 24,119

Acres Irrigated: 6,901

Fresh Water Use 1985 (MGD)

	GROUND	SURFACE	REUSE	TOTAL
Public	0.0	0.0	-	0.0
Domestic	0.06	0.0	-	0.06
Industrial	0.06	0.0	-	0.06
Agr. Irrigation	7.70	0.62	-	8.32
Thermoelectric	0.0	0.0	-	0.0
Heat Pump/air cond.	0.0	0.0	-	0.0
Free-flowing wells	0.0	0.0	-	0.0
TOTALS	7.82	0.62	0.0	8.44

TABLE A-25 ACRES FARMED AND IRRIGATED

OKEECHOBEE COUNTY

1985 CALENDAR YEAR

CROP TYPE	TOTAL AC FARMED	IRRIGATED ACRES	SPRINKLER ACRES	TILE SEEPAGE ACRES	FLOOD & SEEPAGE ACRES	LOW PRESS LOW VOL ACRES
CABBAGE	0	0	0	0	0	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	0	0	0	0	0	0
PEPPERS	0	0	0	0	0	0
POTATOES	0	0	0	0	0	0
TOMATOES	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	4,119	4,119	0	0	0	4,119
GRAPES	0	0	0	0	0	0
PEACHES	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
STRAWBERRIES	0	0	0	0	0	0
WATERMELONS	0	0	0	0	0	0
MISC. FRUIT	0	0	0	0	0	0
FIELD CORN	0	0	0	0	0	0
PEANUTS	0	0	0	0	0	0
SORGHUM	0	0	0	0	0	0
SOYBEANS	0	0	0	0	0	0
SUGAR CANE	0	0	0	0	0	0
TOBACCO	0	0	0	0	0	0
WHEAT	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
WOODY ORNAMENTALS	0	0	0	0	0	0
IMPROVED PASTURE	20,000	2,782	0	0	2,782	0
SOD	0	0	0	0	0	0
TURF GRASS	0	0	0	0	0	0
	24,119	6,901	0	0	2,782	4,119

TABLE A-26 IRRIGATION WATER USE

OKEECHOBEE COUNTY

1985 CALENDAR YEAR

CROP TYPE	SPRINKLER INCHES PER/YR	SEEPAGE INCHES PER/YR	LOW PRESS INCHES PER/YR	TOTAL AC.FT	GROUND WATER M G D	SURFACE WATER M G D	RE-USED WATER M G D	TOTAL WATER M G D
CABBAGE	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
CARROTS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
CUCUMBERS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PEPPERS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
POTATOES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TOMATOES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SWEET CORN	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WATERCRESS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. VEGETABLES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
BLUEBERRIES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
CITRUS	0.00	29.39	16.33	5,605	5.00	0.00	0.00	5.00
GRAPES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PEACHES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PECANS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
STRAWBERRIES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WATERMELONS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. FRUIT	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FIELD CORN	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PEANUTS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SORGHUM	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SOYBEANS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SUGAR CANE	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TOBACCO	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WHEAT	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. GRAINS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FERNS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FLOWERS & FOLIAGE	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WOODY ORNAMENTALS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
IMPROVED PASTURE	0.00	12.07	0.00	2,798	2.12	0.37	0.00	2.49
SOD	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TURF GRASS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
LIVESTOCK	0.00	0.00	0.00	932	0.58	0.25	0.00	0.83
FISH FARMING	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
				9,335	7.70	0.62	0.00	8.32

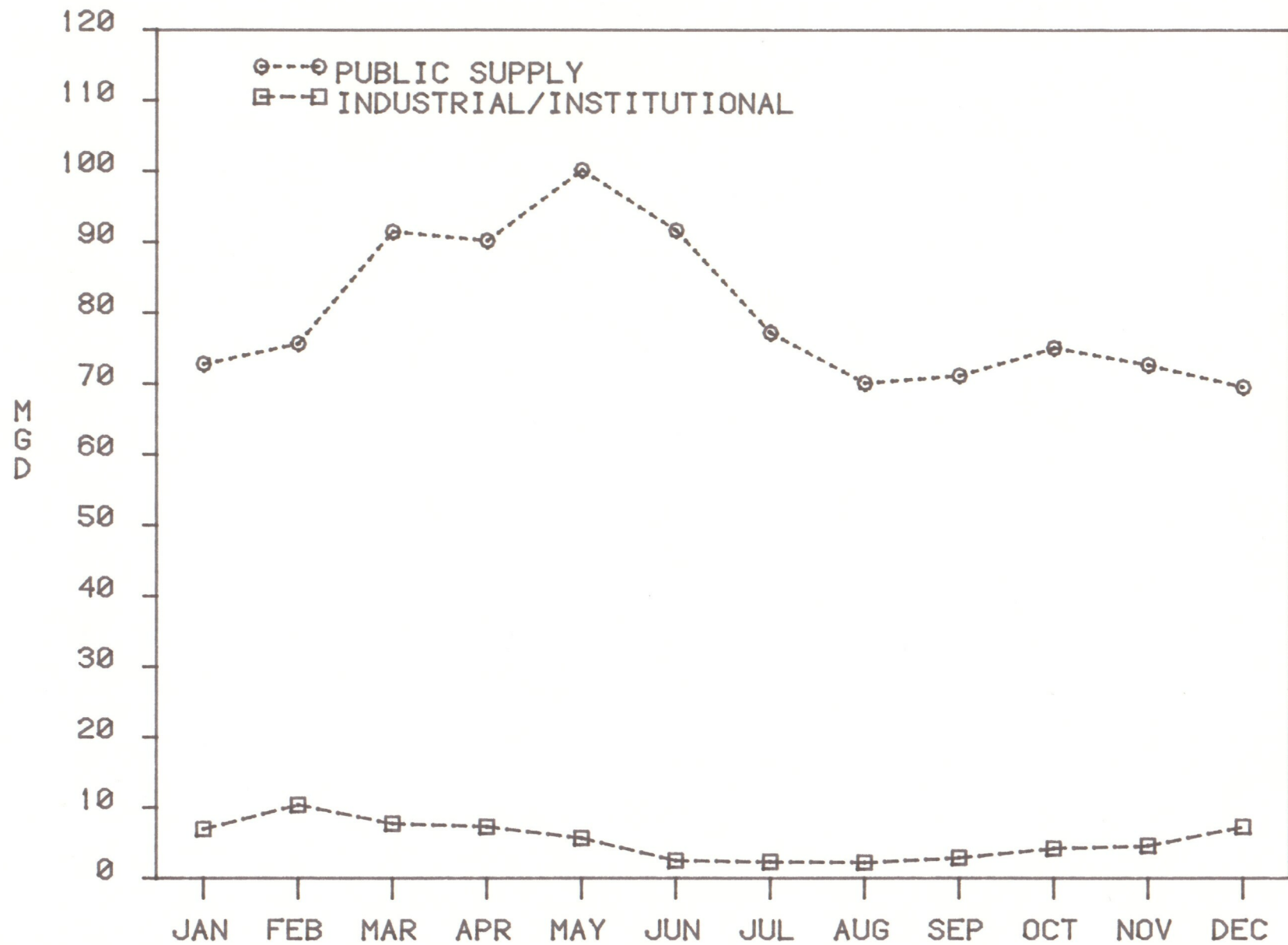


FIGURE A-14 MONTHLY FRESH WATER USE IN ORANGE COUNTY FOR 1985

COUNTY: ORANGE - 1985

Total Population: 554,659

Total Land Area: 1,003 sq. miles

St. Johns River Water Management Portion

Population: 452,100

Population Public Supply: 430,870

Population Domestic Self-Supplied: 21,230

Gallons Per Capita Day: 192

Land Area: 744 sq. miles (476,160 acres)

Acres Farmed: 78,417

Acres Irrigated: 58,261

Fresh Water Use 1985 (MGD)

	GROUND	SURFACE	REUSE	TOTAL
Public	101.94 (1)	0.0	-	101.94 (1)
Domestic	4.08	0.0	-	4.08
Industrial	5.31	0.0	-	5.31
Agr. Irrigation	32.27	50.91	-	83.18
Thermoelectric	0.0	0.0	-	0.0
Heat Pump/air cond.	0.82	0.0	-	0.82
Free-flowing wells	0.02	0.0	-	0.02
 TOTALS	 144.44 (1)	 50.91	 0.0	 195.35 (1)

(1) Includes 22.10 MGD withdrawn in Orange County for use in Brevard County.

TABLE A-27 ACRES FARMED AND IRRIGATED

ORANGE COUNTY		1985 CALENDAR YEAR				
CROP TYPE	TOTAL AC FARMED	IRRIGATED ACRES	SPRINKLER ACRES	TILE SEEPAGE ACRES	FLOOD & SEEPAGE ACRES	LOW PRESS LOW VOL ACRES
CABBAGE	1,400	1,400	125	0	1,275	0
CARROTS	13,500	13,500	0	0	13,500	0
CUCUMBERS	1,610	1,610	0	0	1,610	0
PEPPERS	0	0	0	0	0	0
POTATOES	0	0	0	0	0	0
TOMATOES	75	75	75	0	0	0
SWEET CORN	13,600	13,600	0	0	13,600	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	14,060	14,060	0	0	14,060	0
BLUEBERRIES	50	50	50	0	0	0
CITRUS	12,000	11,000	5,500	0	0	5,500
GRAPES	0	0	0	0	0	0
PEACHES	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
STRAWBERRIES	0	0	0	0	0	0
WATERMELONS	150	150	150	0	0	0
MISC. FRUIT	0	0	0	0	0	0
FIELD CORN	200	200	200	0	0	0
PEANUTS	0	0	0	0	0	0
SORGHUM	200	200	0	0	200	0
SOYBEANS	200	200	200	0	0	0
TOBACCO	0	0	0	0	0	0
WHEAT	0	0	0	0	0	0
MISC. GRAINS	0	0	0	0	0	0
FERNS	40	40	40	0	0	0
FLOWERS & FOLIAGE	581	581	581	0	0	0
WOODY ORNAMENTALS	576	576	576	0	0	0
IMPROVED PASTURE	18,562	0	0	0	0	0
SOD	200	200	0	0	200	0
TURF GRASS	1,413	819	819	0	0	0
	78,417	58,261	8,316	0	44,445	5,500

TABLE A-28 IRRIGATION WATER USE

ORANGE COUNTY

1985 CALENDAR YEAR

CROP TYPE	SPRINKLER INCHES PER/YR	SEEPAGE INCHES PER/YR	LOW PRESS INCHES PER/YR	TOTAL AC.FT	GROUND WATER M G D	SURFACE WATER M G D	RE-USED WATER M G D	TOTAL WATER M G D
CABBAGE	0.00	12.07	0.00	1,282	1.14	0.00	0.00	1.14
CARROTS	0.00	12.26	0.00	13,792	1.23	11.08	0.00	12.31
CUCUMBERS	0.00	12.07	0.00	1,619	1.45	0.00	0.00	1.45
PEPPERS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
POTATOES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TOMATOES	15.42	0.00	0.00	96	0.09	0.00	0.00	0.09
SWEET CORN	0.00	15.23	0.00	17,260	1.54	13.87	0.00	15.41
WATERCRESS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. VEGETABLES	0.00	24.67	0.00	28,905	2.58	23.22	0.00	25.80
BLUEBERRIES	16.40	0.00	0.00	68	0.06	0.00	0.00	0.06
CITRUS	20.71	0.00	19.03	18,214	14.63	1.63	0.00	16.26
GRAPES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PEACHES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PECANS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
STRAWBERRIES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WATERMELONS	14.40	0.00	0.00	180	0.16	0.00	0.00	0.16
MISC. FRUIT	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FIELD CORN	15.39	0.00	0.00	256	0.23	0.00	0.00	0.23
PEANUTS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SORGHUM	0.00	13.80	0.00	230	0.21	0.00	0.00	0.21
SOYBEANS	14.98	0.00	0.00	249	0.22	0.00	0.00	0.22
TOBACCO	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WHEAT	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. GRAINS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FERNS	65.00	0.00	0.00	216	0.19	0.00	0.00	0.19
FLOWERS & FOLIAGE	65.00	0.00	50.00	3,147	2.25	0.56	0.00	2.81
WOODY ORNAMENTALS	65.00	0.00	0.00	3,120	2.79	0.00	0.00	2.79
IMPROVED PASTURE	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SOD	0.00	38.41	0.00	640	0.57	0.00	0.00	0.57
TURF GRASS	46.40	0.00	0.00	3,166	2.54	0.28	0.00	2.82
LIVESTOCK	0.00	0.00	0.00	606	0.27	0.27	0.00	0.54
FISH FARMING	0.00	0.00	0.00	130	0.12	0.00	0.00	0.12
				93,176	32.27	50.91	0.00	83.18

THE PUBLIC AND INDUSTRIAL PUMPAGE IN OSCEOLA COUNTY
WITHIN THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
FOR 1985 WAS TOO SMALL TO DEPICT.

COUNTRY: OSCEOLA - 1985

Total Population: 77,374

Total Land Area: 1,467 sq. miles

St. Johns River Water Management Portion

Population: 400

Population Public Supply: -0-

Population Domestic Self-Supplied: 400

Gallons Per Capita Day: 163 - District average

Land Area: 542 sq. miles (346,880 acres)

Acres Farmed: 126,570

Acres Irrigated: 7,470

Fresh Water Use 1985 (MGD)

	GROUND	SURFACE	REUSE	TOTAL
Public	0.0	0.0	-	0.0
Domestic	0.06	0.0	-	0.06
Industrial	0.0	0.0	-	0.0
Agr. Irrigation	6.41	1.20	-	7.61
Thermoelectric	0.0	0.0	-	0.0
Heat Pump/air cond.	0.0	0.0	-	0.0
Free-flowing wells	0.0	0.0	-	0.0
TOTALS	6.47	1.20	0.0	7.67

TABLE A-29 ACRES FARMED AND IRRIGATED

OSCEOLA COUNTY

1985 CALENDAR YEAR

CROP TYPE	TOTAL AC FARMED	IRRIGATED ACRES	SPRINKLER ACRES	TILE SEEPAGE ACRES	FLOOD & SEEPAGE ACRES	LOW PRESS LOW VOL ACRES
CABBAGE	0	0	0	0	0	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	0	0	0	0	0	0
PEPPERS	0	0	0	0	0	0
POTATOES	0	0	0	0	0	0
TOMATOES	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	770	770	0	0	770	0
GRAPES	0	0	0	0	0	0
PEACHES	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
STRAWBERRIES	0	0	0	0	0	0
WATERMELONS	0	0	0	0	0	0
MISC. FRUIT	0	0	0	0	0	0
FIELD CORN	0	0	0	0	0	0
PEANUTS	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
WHEAT	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
WOODY ORNAMENTALS	0	0	0	0	0	0
IMPROVED PASTURE	125,800	6,700	0	0	6,700	0
SOD	0	0	0	0	0	0
TURF GRASS	0	0	0	0	0	0
	126,570	7,470	0	0	7,470	0

TABLE A-30 IRRIGATION WATER USE

OSCEOLA COUNTY

1985 CALENDAR YEAR

CROP TYPE	SPRINKLER INCHES PER/YR	SEEPAGE INCHES PER/YR	LOW PRESS INCHES PER/YR	TOTAL AC.FT	GROUND WATER M G D	SURFACE WATER M G D	RE-USED WATER M G D	TOTAL WATER M G D
CABBAGE	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
CARROTS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
CUCUMBERS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PEPPERS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
POTATOES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TOMATOES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SWEET CORN	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WATERCRESS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. VEGETABLES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
BLUEBERRIES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
CITRUS	0.00	27.93	0.00	1,792	1.60	0.00	0.00	1.60
GRAPES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PEACHES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PECANS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
STRAWBERRIES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WATERMELONS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. FRUIT	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FIELD CORN	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PEANUTS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SORGHUM	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SOYBEANS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TOBACCO	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WHEAT	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. GRAINS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FERNS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FLOWERS & FOLIAGE	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WOODY ORNAMENTALS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
IMPROVED PASTURE	0.00	12.07	0.00	6,739	4.81	1.20	0.00	6.01
SOD	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TURF GRASS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
LIVESTOCK	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FISH FARMING	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
				8,531	6.41	1.20	0.00	7.61

THE PUBLIC AND INDUSTRIAL PUMPAGE IN POLK COUNTY
WITHIN THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
FOR 1985 WAS TOO SMALL TO DEPICT.

COUNTY: POLK - 1985

Total Population: 366,268

Total Land Area: 2,048 sq. miles

St. Johns River Water Management Portion

Population: 5,300

Population Public Supply: 770(1)

Population Domestic Self-Supplied: 1,400

Gallons Per Capita Day: 200 - Total County Average

Land Area: 63 sq. miles (40,320 acres)

Acres Farmed: 15,955

Acres Irrigated: 7,305

Fresh Water Use 1985 (MGD)

	GROUND	SURFACE	REUSE	TOTAL
Public	0.08	0.0	-	0.08
Domestic	0.28	0.0	-	0.28
Industrial	0.13	0.0	-	0.13
Agr. Irrigation	9.55	0.99	-	10.54
Thermoelectric	0.0	0.0	-	0.0
Heat Pump/air cond.	0.0	0.0	-	0.0
Free flowing wells	0.0	0.0	-	0.0
TOTALS	10.04	0.99	0.0	11.03

(1) Does not include 3,130 population served by Haines City in SWFWMD that live in SJRWMD.

TABLE A-31 ACRES FARMED AND IRRIGATED

POLK COUNTY

1985 CALENDAR YEAR

CROP TYPE	TOTAL AC FARMED	IRRIGATED ACRES	SPRINKLER ACRES	TILE SEEPAGE ACRES	FLOOD & SEEPAGE ACRES	LOW PRESS LOW VOL ACRES
CABBAGE	0	0	0	0	0	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	0	0	0	0	0	0
PEPPERS	0	0	0	0	0	0
POTATOES	0	0	0	0	0	0
TOMATOES	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	10,400	6,650	5,985	0	0	665
GRAPES	0	0	0	0	0	0
PEACHES	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
STRAWBERRIES	0	0	0	0	0	0
WATERMELONS	0	0	0	0	0	0
MISC. FRUIT	0	0	0	0	0	0
FIELD CORN	1,000	500	500	0	0	0
PEANUTS	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
WHEAT	0	0	0	0	0	0
MISC. GRAINS	0	0	0	0	0	0
FERNS	0	0	0	0	0	0
FLOWERS & FOLIAGE	5	5	5	0	0	0
WOODY ORNAMENTALS	50	50	50	0	0	0
IMPROVED PASTURE	4,500	100	0	0	100	0
SOD	0	0	0	0	0	0
TURF GRASS	0	0	0	0	0	0
	15,955	7,305	6,540	0	100	665

TABLE A-32 IRRIGATION WATER USE

POLK COUNTY

1985 CALENDAR YEAR

CROP TYPE	SPRINKLER INCHES PER/YR	SEEPAGE INCHES PER/YR	LOW PRESS INCHES PER/YR	TOTAL AC.FT	GROUND WATER M G D	SURFACE WATER M G D	RE-USED WATER M G D	TOTAL WATER M G D
CABBAGE	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
CARROTS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
CUCUMBERS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PEPPERS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
POTATOES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TOMATOES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SWEET CORN	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WATERCRESS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. VEGETABLES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
BLUEBERRIES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
CITRUS	18.82	0.00	16.73	10,313	8.29	0.92	0.00	9.21
GRAPES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PEACHES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PECANS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
STRAWBERRIES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WATERMELONS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. FRUIT	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FIELD CORN	15.39	0.00	0.00	641	0.57	0.00	0.00	0.57
PEANUTS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SORGHUM	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SOYBEANS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TOBACCO	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WHEAT	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. GRAINS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FERNS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FLOWERS & FOLIAGE	65.00	0.00	0.00	27	0.02	0.00	0.00	0.02
WOODY ORNAMENTALS	100.00	0.00	0.00	416	0.37	0.00	0.00	0.37
IMPROVED PASTURE	0.00	49.73	0.00	414	0.30	0.07	0.00	0.37
SOD	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TURF GRASS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
LIVESTOCK	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FISH FARMING	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
				11,811	9.55	0.99	0.00	10.54

TOT

M
G
D

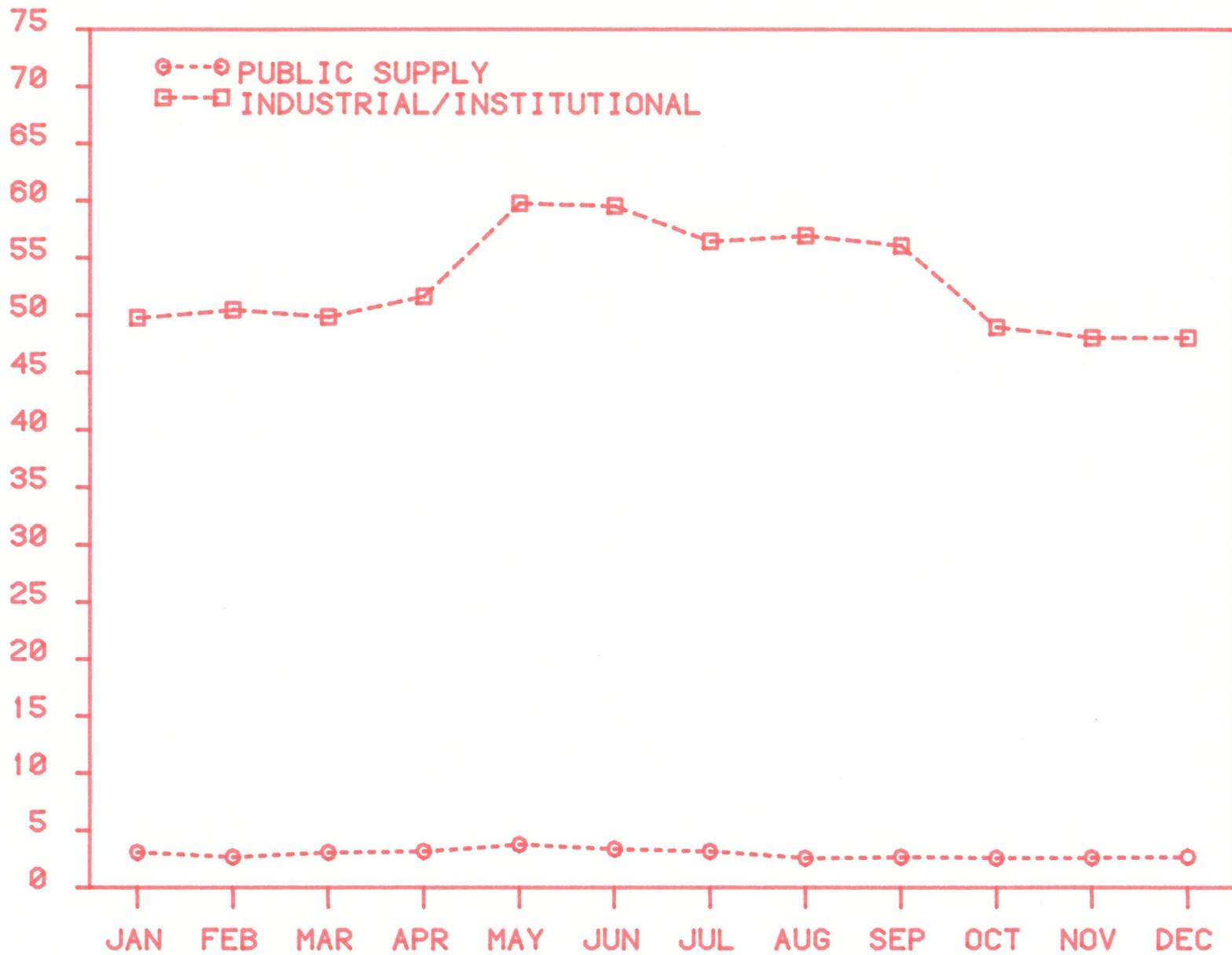


FIGURE A-15

MONTHLY FRESH WATER USE IN PUTNAM COUNTY FOR 1985

COUNTY: PUTNAM - 1985

Total Population: 56,823

Total Land Area: 879 sq. miles

St. Johns River Water Management Portion

Population: 56,823

Population Public Supply: 18,105

Population Domestic Self-Supplied: 38,718

Gallons Per Capita Day: 164

Land Area: 879 sq. miles (562,460 acres) (1)

Acres Farmed: 50,556

Acres Irrigated: 7,911

Fresh Water Use 1985 (MGD)

	GROUND	SURFACE	REUSE	TOTAL
Public	2.97	0.0	-	2.97
Domestic	6.35	0.0	-	6.35
Industrial	43.07	9.98	-	53.05
Agr. Irrigation	17.20	0.96	-	18.16
Thermoelectric	0.68	9.13	-	9.81
Heat Pump/air cond.	2.30	0.0	-	2.30
Free-flowing wells	0.55	0.0	-	0.55
 TOTALS	 73.12	 20.07	 0.0	 93.19

(1) There is less than one square mile (100 acres) of land area in Putnam County that is not within the SJRWMD.

TABLE A-33 ACRES FARMED AND IRRIGATED

PUTNAM COUNTY						
1985 CALENDAR YEAR						
CROP TYPE	TOTAL AC FARMED	IRRIGATED ACRES	SPRINKLER ACRES	TILE SEEPAGE ACRES	FLOOD & SEEPAGE ACRES	LOW PRESS LOW VOL ACRES
CABBAGE	1,000	1,000	0	0	1,000	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	0	0	0	0	0	0
PEPPERS	0	0	0	0	0	0
POTATOES	4,500	4,500	0	0	4,500	0
TOMATOES	0	0	0	0	0	0
SWEET CORN	0	0	0	0	0	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	200	200	0	0	200	0
BLUEBERRIES	100	75	0	0	0	75
CITRUS	0	0	0	0	0	0
GRAPES	10	10	10	0	0	0
PEACHES	70	70	70	0	0	0
PECANS	100	0	0	0	0	0
STRAWBERRIES	0	0	0	0	0	0
WATERMELONS	200	200	200	0	0	0
MISC. FRUIT	0	0	0	0	0	0
FIELD CORN	3,000	500	0	0	500	0
PEANUTS	0	0	0	0	0	0
SORGHUM	400	0	0	0	0	0
SOYBEANS	0	0	0	0	0	0
TOBACCO	0	0	0	0	0	0
WHEAT	0	0	0	0	0	0
MISC. GRAINS	2,500	0	0	0	0	0
FERNS	800	800	800	0	0	0
FLOWERS & FOLIAGE	220	220	0	0	220	0
WOODY ORNAMENTALS	0	0	0	0	0	0
IMPROVED PASTURE	37,000	0	0	0	0	0
SOD	260	260	260	0	0	0
TURF GRASS	196	76	76	0	0	0
	50,556	7,911	1,416	0	6,420	75

TABLE A-34 IRRIGATION WATER USE

PUTNAM COUNTY

1985 CALENDAR YEAR

CROP TYPE	SPRINKLER INCHES PER/YR	SEEPAGE INCHES PER/YR	LOW PRESS INCHES PER/YR	TOTAL AC.FT	GROUND WATER M G D	SURFACE WATER M G D	RE-USED WATER M G D	TOTAL WATER M G D
CABBAGE	0.00	17.47	0.00	1,455	1.30	0.00	0.00	1.30
CARROTS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
CUCUMBERS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PEPPERS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
POTATOES	0.00	19.59	0.00	7,346	6.56	0.00	0.00	6.56
TOMATOES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SWEET CORN	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WATERCRESS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. VEGETABLES	0.00	30.27	0.00	504	0.45	0.00	0.00	0.45
BLUEBERRIES	0.00	0.00	10.90	68	0.06	0.00	0.00	0.06
CITRUS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
GRAPES	24.16	0.00	0.00	20	0.02	0.00	0.00	0.02
PEACHES	34.70	0.00	0.00	202	0.18	0.00	0.00	0.18
PECANS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
STRAWBERRIES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WATERMELONS	14.40	0.00	0.00	240	0.21	0.00	0.00	0.21
MISC. FRUIT	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FIELD CORN	0.00	26.39	0.00	1,099	0.78	0.20	0.00	0.98
PEANUTS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SORGHUM	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SOYBEANS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TOBACCO	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WHEAT	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. GRAINS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FERNS	65.00	0.00	0.00	4,333	3.48	0.39	0.00	3.87
FLOWERS & FOLIAGE	0.00	65.00	0.00	1,191	0.85	0.21	0.00	1.06
WOODY ORNAMENTALS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
IMPROVED PASTURE	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SOD	27.50	0.00	0.00	595	0.53	0.00	0.00	0.53
TURF GRASS	49.70	0.00	0.00	314	0.28	0.00	0.00	0.28
LIVESTOCK	0.00	0.00	0.00	461	0.25	0.16	0.00	0.41
FISH FARMING	0.00	0.00	0.00	2,515	2.25	0.00	0.00	2.25
				20,343	17.20	0.96	0.00	18.16

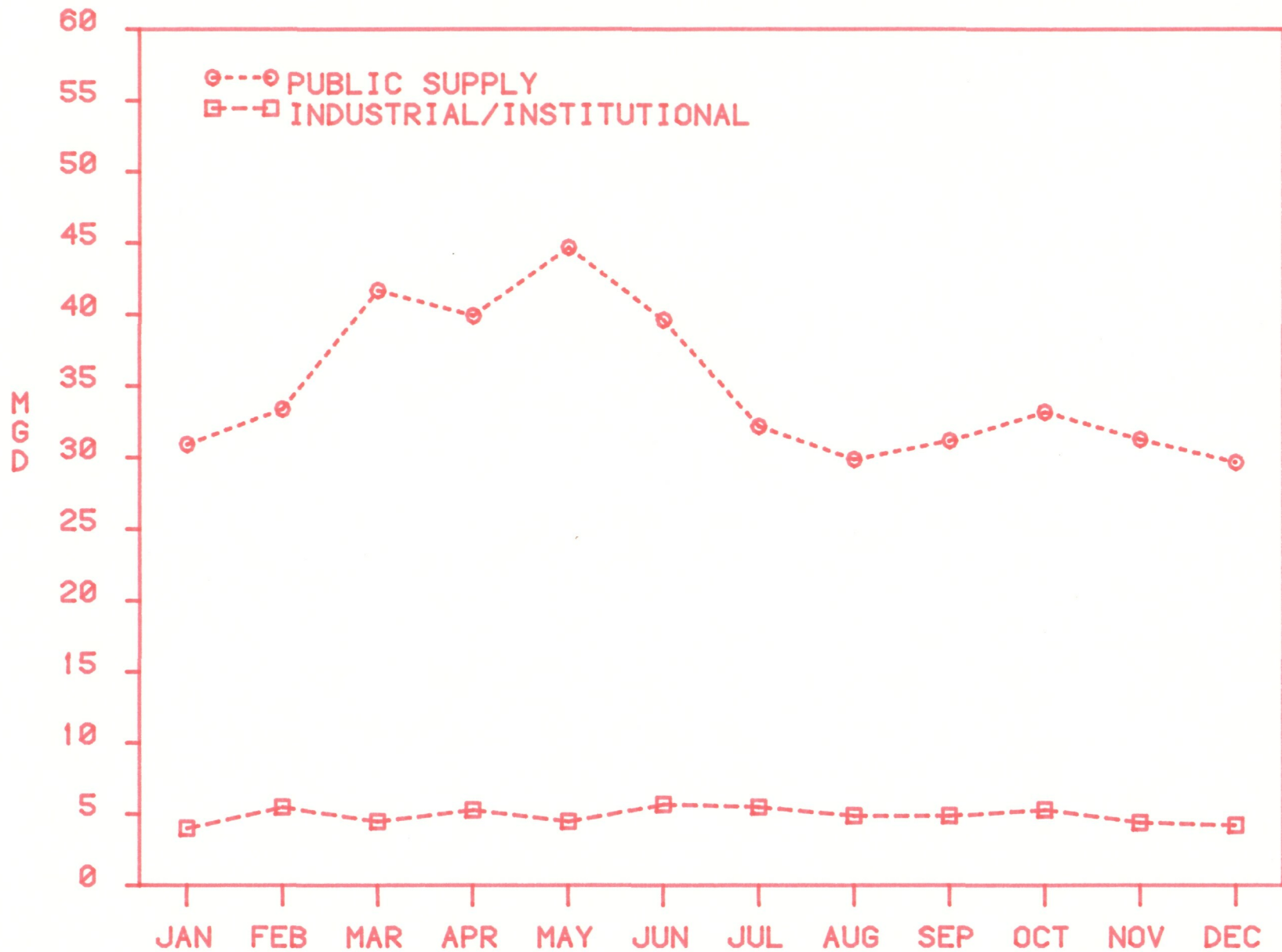


FIGURE A-16

MONTHLY FRESH WATER USE IN SEMINOLE COUNTY FOR 1985

COUNTY: SEMINOLE - 1985

Total Population: 229,937

Total Land Area: 352 sq. miles

St. Johns River Water Management Portion

Population: 229,937

Population Public Supply: 208,210

Population Domestic Self-Supplied: 21,727

Gallons Per Capita Day: 167

Land Area: 352 sq. miles (225,280 acres)

Acres Farmed: 18,795

Acres Irrigated: 9,511

Fresh Water Use 1985 (MGD)

	GROUND	SURFACE	REUSE	TOTAL
Public	34.86	0.0	-	34.86
Domestic	3.63	0.0	-	3.63
Industrial	4.96	0.0	-	4.96
Agr. Irrigation	23.21	2.06	-	25.27 (1)
Thermoelectric	0.0	0.0	-	0.0
Heat Pump/air cond.	0.0	0.0	-	0.0
Free-flowing wells	0.12	0.0	-	0.12
TOTALS	66.78	2.06	0.0	68.84 (1)

TABLE A-35 ACRES FARMED AND IRRIGATED

SEMINOLE COUNTY

1985 CALENDAR YEAR

CROP TYPE	TOTAL AC FARMED	IRRIGATED ACRES	SPRINKLER ACRES	TILE SEEPAGE ACRES	FLOOD & SEEPAGE ACRES	LOW PRESS LOW VOL ACRES
CABBAGE	1,200	1,200	0	1,200	0	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	1,200	1,200	0	1,200	0	0
PEPPERS	120	120	0	0	120	0
POTATOES	0	0	0	0	0	0
TOMATOES	0	0	0	0	0	0
SWEET CORN	40	40	0	40	0	0
WATERCRESS	150	150	0	0	150	0
MISC. VEGETABLES	960	873	0	873	0	0
BLUEBERRIES	5	5	0	5	0	0
CITRUS	4,500	3,500	2,900	50	0	550
GRAPES	0	0	0	0	0	0
PEACHES	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
STRAWBERRIES	0	0	0	0	0	0
WATERMELONS	0	0	0	0	0	0
MISC. FRUIT	10	10	10	0	0	0
FIELD CORN	80	80	0	0	80	0
PEANUTS	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
WHEAT	0	0	0	0	0	0
MISC. GRAINS	0	0	0	0	0	0
FERNS	20	20	20	0	0	0
FLOWERS & FOLIAGE	560	560	440	0	0	120
WOODY ORNAMENTALS	160	160	140	0	20	0
IMPROVED PASTURE	7,000	0	0	0	0	0
SOD	320	320	120	0	200	0
TURF GRASS	2,470	1,273	1,273	0	0	0
	18,795	9,511	4,903	3,368	570	670

TABLE A-36 IRRIGATION WATER USE

SEMINOLE COUNTY

1985 CALENDAR YEAR

CROP TYPE	SPRINKLER INCHES PER/YR	SEEPAGE INCHES PER/YR	LOW PRESS INCHES PER/YR	TOTAL AC.FT	GROUND WATER M G D	SURFACE WATER M G D	RE-USED WATER M G D	TOTAL WATER M G D
CABBAGE	0.00	9.03	0.00	903	0.81	0.00	0.00	0.81
CARROTS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
CUCUMBERS	0.00	9.03	0.00	903	0.81	0.00	0.00	0.81
PEPPERS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
POTATOES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TOMATOES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SWEET CORN	0.00	17.58	0.00	58	0.05	0.00	0.00	0.05
WATERCRESS	0.00	700.00	0.00	8,750	7.81	0.00	0.00	7.81
MISC. VEGETABLES	0.00	13.33	0.00	969	0.87	0.00	0.00	0.87
BLUEBERRIES	0.00	15.23	0.00	6	0.01	0.00	0.00	0.01
CITRUS	20.83	33.32	18.51	6,021	5.11	0.27	0.00	5.38
GRAPES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PEACHES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PECANS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
STRAWBERRIES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WATERMELONS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. FRUIT	20.83	0.00	0.00	17	0.02	0.00	0.00	0.02
FIELD CORN	0.00	24.61	0.00	164	0.15	0.00	0.00	0.15
PEANUTS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SORGHUM	0.00	13.80	0.00	0	0.00	0.00	0.00	0.00
SOYBEANS	0.00	23.08	0.00	0	0.00	0.00	0.00	0.00
TOBACCO	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WHEAT	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. GRAINS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FERNS	65.00	0.00	0.00	108	0.10	0.00	0.00	0.10
FLOWERS & FOLIAGE	65.00	0.00	50.00	2,883	2.57	0.00	0.00	2.57
WOODY ORNAMENTALS	50.00	15.23	0.00	608	0.54	0.00	0.00	0.54
IMPROVED PASTURE	0.00	52.52	0.00	0	0.00	0.00	0.00	0.00
SOD	0.00	51.00	0.00	850	0.76	0.00	0.00	0.76
TURF GRASS	46.40	0.00	0.00	4,922	3.52	0.88	0.00	4.40
LIVESTOCK	0.00	0.00	0.00	1,110	0.08	0.91	0.00	0.99
FISH FARMING	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
				28,272	23.21	2.06	0.00	25.27

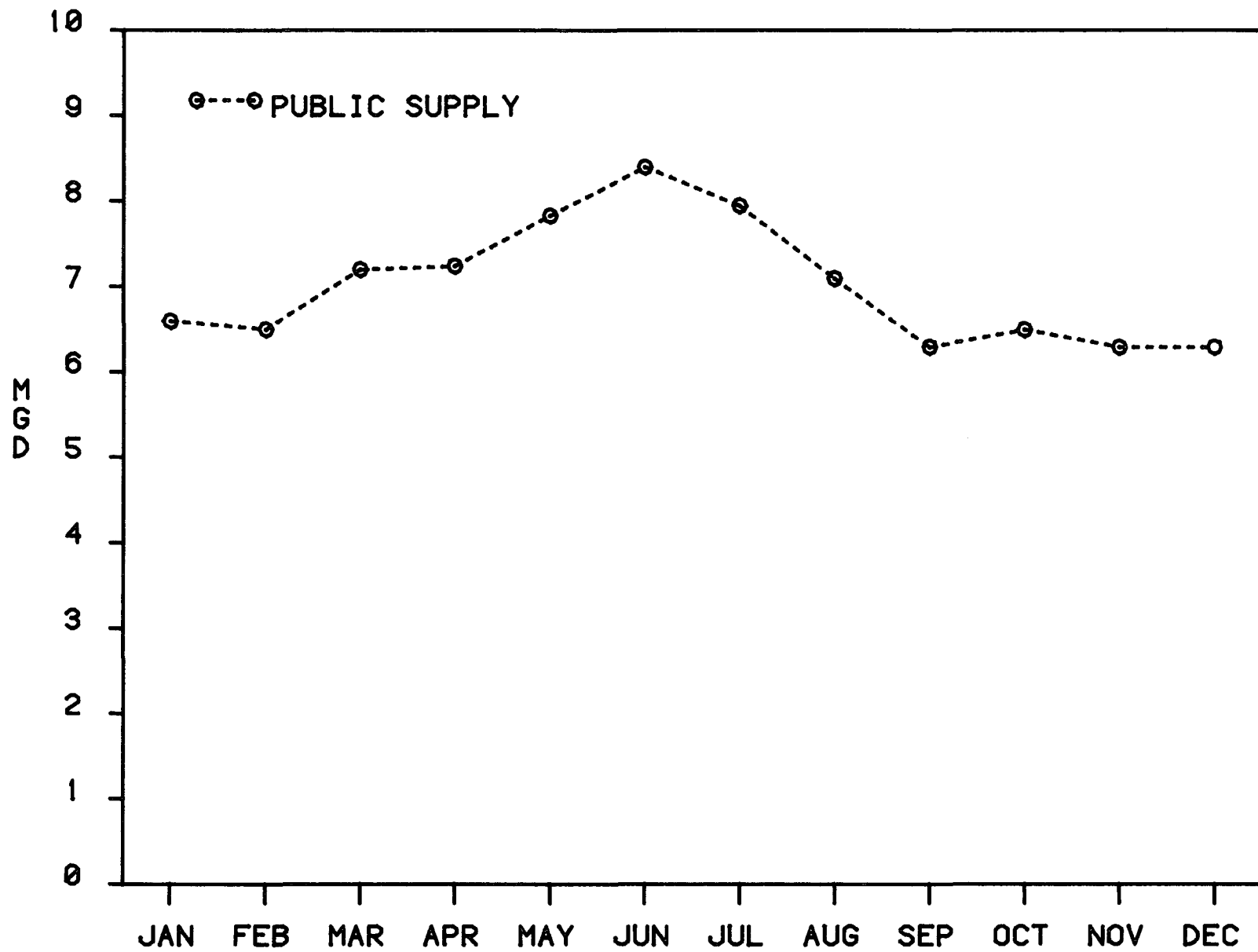


FIGURE A-17

MONTHLY FRESH WATER USE IN ST. JOHNS COUNTY FOR 1985

COUNTY: ST. JOHNS - 1985

Total Population: 68,822

Total Land Area: 660 sq. miles

St. Johns River Water Management Portion

Population: 68,822

Population Public Supply: 52,809

Population Domestic Self-Supplied: 16,013

Gallons Per Capita Day: 133

Land Area: 660 sq. miles (422,400 acres)

Acres Farmed: 30,781

Acres Irrigated: 26,100

Fresh Water Use 1985 (MGD)

	GROUND	SURFACE	REUSE	TOTAL
Public	7.01	0.0	-	7.01
Domestic	2.13	0.0	-	2.13
Industrial	0.08	0.0	-	0.08
Agr. Irrigation	41.00	1.07	0.42	42.07(1)
Thermoelectric	0.0	0.0	-	0.0
Heat Pump/air cond.	0.10	0.0	-	0.10
Free-flowing wells	1.04	0.0	-	1.04
TOTALS	51.36	1.07	0.42	52.43(1)

(1) Reuse is not included in Total water use.

TABLE A-37 ACRES FARMED AND IRRIGATED

ST. JOHNS COUNTY

1985 CALENDAR YEAR

CROP TYPE	TOTAL AC FARMED	IRRIGATED ACRES	SPRINKLER ACRES	TILE SEEPAGE ACRES	FLOOD & SEEPAGE ACRES	LOW PRESS LOW VOL ACRES
CABBAGE	3,000	3,000	0	3,000	0	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	50	50	0	50	0	0
PEPPERS	0	0	0	0	0	0
POTATOES	18,000	18,000	0	18,000	0	0
TOMATOES	0	0	0	0	0	0
SWEET CORN	500	500	0	500	0	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	500	500	0	500	0	0
BLUEBERRIES	5	5	0	0	0	5
CITRUS	0	0	0	0	0	0
GRAPES	0	0	0	0	0	0
PEACHES	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
STRAWBERRIES	0	0	0	0	0	0
WATERMELONS	0	0	0	0	0	0
MISC. FRUIT	0	0	0	0	0	0
FIELD CORN	2,000	2,000	0	2,000	0	0
PEANUTS	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
WHEAT	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
WOODY ORNAMENTALS	75	75	75	0	0	0
IMPROVED PASTURE	5,500	1,000	0	1,000	0	0
SOD	60	60	60	0	0	0
TURF GRASS	1,061	880	880	0	0	0
	30,781	26,100	1,035	25,060	0	5

TABLE A-38 IRRIGATION WATER USE

ST. JOHNS COUNTY

1985 CALENDAR YEAR

CROP TYPE	SPRINKLER INCHES PER/YR	SEEPAGE LOW PRESS INCHES PER/YR	TOTAL AC.FT	GROUND WATER M G D	SURFACE RE-USED WATER M G D	TOTAL WATER M G D		
CABBAGE	0.00	17.47	0.00	4,367	3.90	0.00	0.00	3.90
CARROTS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
CUCUMBERS	0.00	16.92	0.00	70	0.06	0.00	0.00	0.06
PEPPERS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
POTATOES	0.00	19.59	0.00	29,385	26.23	0.00	0.00	26.23
TOMATOES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SWEET CORN	0.00	25.55	0.00	1,064	0.95	0.00	0.00	0.95
WATERCRESS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. VEGETABLES	0.00	24.81	0.00	1,033	0.92	0.00	0.00	0.92
BLUEBERRIES	0.00	0.00	9.30	3	0.00	0.00	0.00	0.00
CITRUS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
GRAPES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PEACHES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PECANS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
STRAWBERRIES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WATERMELONS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. FRUIT	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FIELD CORN	0.00	20.79	0.00	3,465	3.09	0.00	0.00	3.09
PEANUTS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SORGHUM	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SOYBEANS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TOBACCO	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WHEAT	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. GRAINS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FERNS	65.00	0.00	0.00	27	0.02	0.00	0.00	0.02
FLOWERS & FOLIAGE	65.00	80.00	0.00	147	0.13	0.00	0.00	0.13
WOODY ORNAMENTALS	70.00	0.00	0.00	437	0.39	0.00	0.00	0.39
IMPROVED PASTURE	0.00	42.85	0.00	3,570	3.03	0.16	0.00	3.19
SOD	27.50	0.00	0.00	137	0.12	0.00	0.00	0.12
TURF GRASS	49.70	0.00	0.00	3,644	2.02	0.81	0.42	2.83
LIVESTOCK	0.00	0.00	0.00	270	0.14	0.10	0.00	0.24
FISH FARMING	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
				47,619	41.00	1.07	0.42	42.07

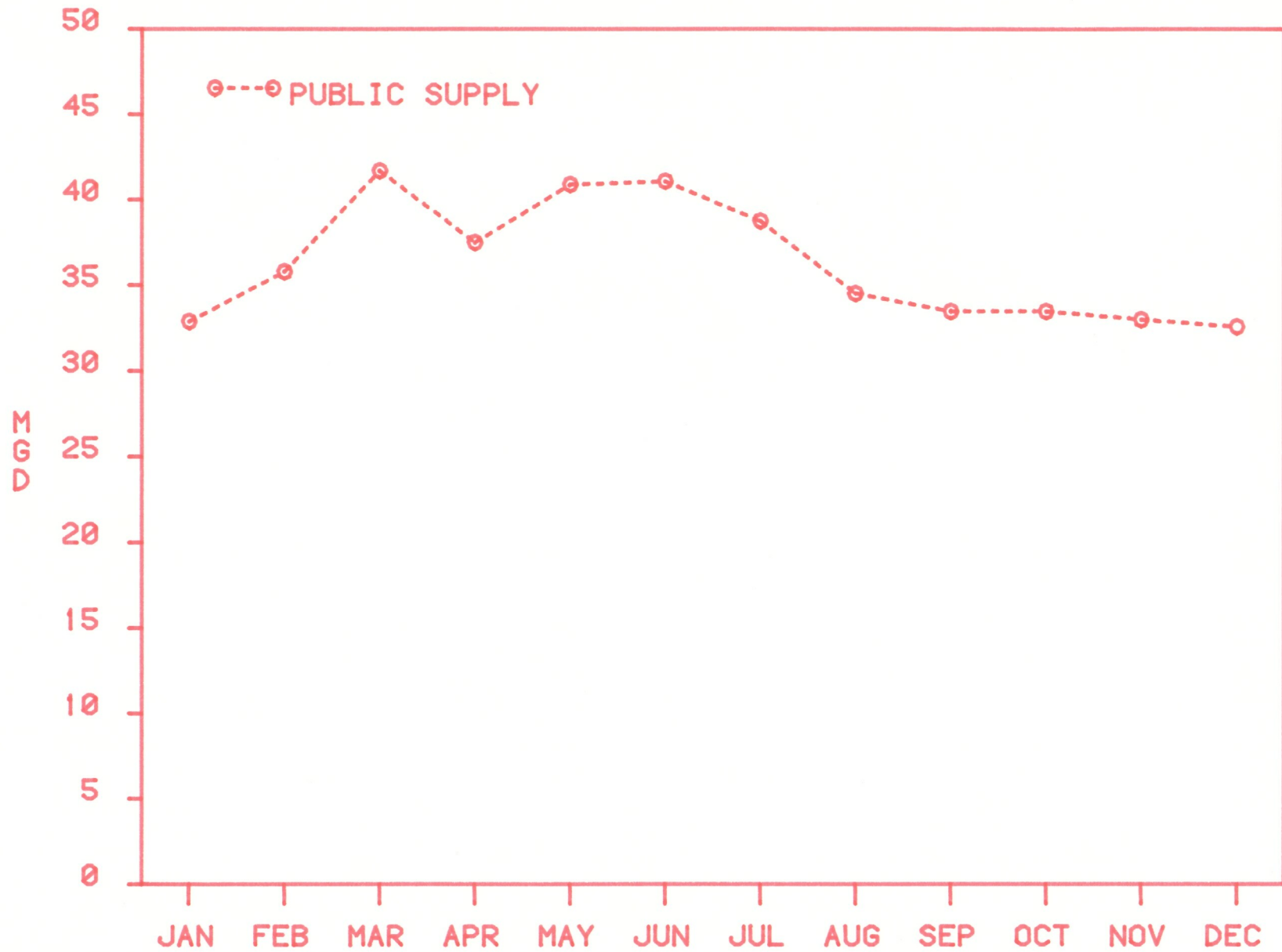


FIGURE A-18

MONTHLY FRESH WATER USE IN VOLUSIA COUNTY FOR 1985

COUNTY: VOLUSIA - 1985

Total Population: 307,042

Total Land Area: 1,207 sq. miles

St. Johns River Water Management Portion

Population: 307,042

Population Public Supply: 267,898

Population Domestic Self-Supplied: 39,144

Gallons Per Capita Day: 136

Land Area: 1,207 sq. miles (772,480 acres)

Acres Farmed: 31,944

Acres Irrigated: 12,088

Fresh Water Use 1985 (MGD)

	GROUND	SURFACE	REUSE	TOTAL
Public	36.40 (1)	0.0	-	36.40 (1)
Domestic	5.32	0.0	-	5.32
Industrial	0.64	0.0	-	0.64
Agr. Irrigation	36.56	6.50	-	43.06
Thermoelectric	0.16	111.25	-	111.41
Heat Pump/air cond.	6.23	0.0	-	6.23
Free-flowing wells	1.26	0.0	-	1.26
TOTALS	86.57 (1)	117.75	0.0	204.32 (1)

(1) Includes 0.01 MGD saline ground water used for R/O.

TABLE A-39 ACRES FARMED AND IRRIGATED

VOLUSIA COUNTY

1985 CALENDAR YEAR

CROP TYPE		TOTAL AC FARMED	IRRIGATED ACRES	SPRINKLER ACRES	TILE SEEPAGE ACRES	FLOOD & SEEPAGE ACRES	LOW PRESS LOW VOL ACRES
CABBAGE	(1)	680	680	0	0	680	0
CARROTS		0	0	0	0	0	0
CUCUMBERS	(1)	680	680	0	0	680	0
PEPPERS		0	0	0	0	0	0
POTATOES		0	0	0	0	0	0
TOMATOES		0	0	0	0	0	0
SWEET CORN		0	0	0	0	0	0
WATERCRESS		0	0	0	0	0	0
MISC. VEGETABLES		100	100	0	0	100	0
BLUEBERRIES		10	0	0	0	0	0
CITRUS		700	350	350	0	0	0
GRAPES		5	5	5	0	0	0
PEACHES		0	0	0	0	0	0
PECANS		10	10	10	0	0	0
STRAWBERRIES		0	0	0	0	0	0
WATERMELONS		200	200	200	0	0	0
MISC. FRUIT		0	0	0	0	0	0
FIELD CORN		0	0	0	0	0	0
PEANUTS		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
WHEAT		0	0	0	0	0	0
MISC. GRAINS		0	0	0	0	0	0
FERNS		5,500	5,400	5,400	0	0	0
FLOWERS & FOLIAGE		200	200	200	0	0	0
WOODY ORNAMENTALS		200	200	200	0	0	0
IMPROVED PASTURE		20,000	2,000	2,000	0	0	0
SOD		800	800	800	0	0	0
TURF GRASS		2,859	1,463	1,463	0	0	0
		31,944	12,088	10,628	0	1,460	0
		962,506	374,712	61,323	35,538	233,890	43,961

TABLE A-40 IRRIGATION WATER USE

VOLUSIA COUNTY

1985 CALENDAR YEAR

CROP TYPE	SPRINKLER INCHES PER/YR	SEEPAGE INCHES PER/YR	LOW PRESS INCHES PER/YR	TOTAL AC.FT	GROUND WATER M G D	SURFACE WATER M G D	RE-USED WATER M G D	TOTAL WATER M G D
CABBAGE	0.00	13.43	0.00	761	0.68	0.00	0.00	0.68
CARROTS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
CUCUMBERS	0.00	13.43	0.00	761	0.68	0.00	0.00	0.68
PEPPERS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
POTATOES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TOMATOES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SWEET CORN	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WATERCRESS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. VEGETABLES	0.00	22.54	0.00	187	0.17	0.00	0.00	0.17
BLUEBERRIES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
CITRUS	17.37	0.00	0.00	506	0.43	0.02	0.00	0.45
GRAPES	24.16	0.00	0.00	10	0.01	0.00	0.00	0.01
PEACHES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PECANS	34.70	0.00	0.00	28	0.02	0.00	0.00	0.02
STRAWBERRIES	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WATERMELONS	14.40	0.00	0.00	240	0.21	0.00	0.00	0.21
MISC. FRUIT	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FIELD CORN	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
PEANUTS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SORGHUM	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
SOYBEANS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
TOBACCO	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
WHEAT	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
MISC. GRAINS	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
FERNS	65.00	0.00	0.00	29,250	21.67	4.44	0.00	26.11
FLOWERS & FOLIAGE	65.00	0.00	0.00	1,083	0.97	0.00	0.00	0.97
WOODY ORNAMENTALS	50.00	0.00	0.00	833	0.74	0.00	0.00	0.74
IMPROVED PASTURE	34.01	0.00	0.00	5,668	4.81	0.25	0.00	5.06
SOD	31.40	0.00	0.00	2,093	1.87	0.00	0.00	1.87
TURF GRASS	49.13	0.00	0.00	5,989	4.17	1.18	0.00	5.35
LIVESTOCK	0.00	0.00	0.00	831	0.13	0.61	0.00	0.74
FISH FARMING	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
				48,240	36.56	6.50	0.00	43.06

ADDITIONAL WATER USE REPORTS

Annual Water Use Survey: 1978, Technical Publication SJ80-5
(Elaine Scott).

Annual Water Use Survey: 1979, Technical Publication SJ81-3
(Richard Marella).

*Annual Water Use Survey: 1980, Technical Publication SJ82-5
(Richard Marella)

Annual Water Use Survey: 1981, Technical Publication SJ83-9
(Richard Marella)

Annual Water Use Survey: 1982, Technical Publication SJ84-2
(Richard Marella)

Annual Water Use Survey: 1982, Technical Publication SJ84-2
(Map Series) (Richard Marella)

Annual Water Use Survey: 1983, Technical Publication SJ84-5
(Richard Marella)

Individual Supplement: 1983

Annual Water Use Survey: 1984, Technical Publication SJ85-7
(Richard Marella)

Individual Supplement: 1984

Ground Water Withdrawals from the Floridan Aquifer in Duval County
- 1980 (Richard Marella), Technical Publication SJ83-7.

Ground Water Withdrawals from the Floridan Aquifer in Nassau County
- 1982 (Richard Marella), Technical Publication SJ84-4.

Ground Water Withdrawals from the Floridan Aquifer in Clay and
Bradford Counties - 1983 (Richard Marella), Technical
Publication SJ84-14.

*The 1980 Water Use Survey (Report SJ 82-5) is currently being
revised and will be published by October, 1986.