

**TECHNICAL PUBLICATIONS SJ 83-9
ANNUAL WATER USE SURVEY - 1981**

By

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Palatka, Florida
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INTRODUCTION

Water use data collection and tabulation are important components in assessing the availability of our ground and surface water resources. This data identifies areas of ground and surface water use and the amount used.

Water use data is collected annually for the 19 counties within the St. Johns River Water Management District (Figure 1). As in past years (1978, 1979, 1980) the 1981 data has been published in a Technical Report. This report summarizes water use in the St. Johns River Water Management District for 1981.

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. Water use is also shown for the following categories, Public supply, Domestic self-supplied, Industrial self-supplied (including Institutional self-supplied), Agricultural Irrigation (including Livestock use), Thermoelectric Power Generation and Heat Pump/Air Conditioning.

Data for public suppliers, self-supplied industries, institutions and thermoelectric power plants is collected by the SJRWMD. Agricultural water use is estimated from the data provided by representatives of the Institute of Food and Agricultural Sciences (IFAS), the USDA Soil Conservation Service (SCS), and the USDA Agricultural Stabilization and Conservation Service (ASCS). 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) and conversations with Heating Ventilation Air Conditioner (HVAC) dealers in Putnam County. This category is calculated for only three counties, Brevard, Volusia and Putnam.

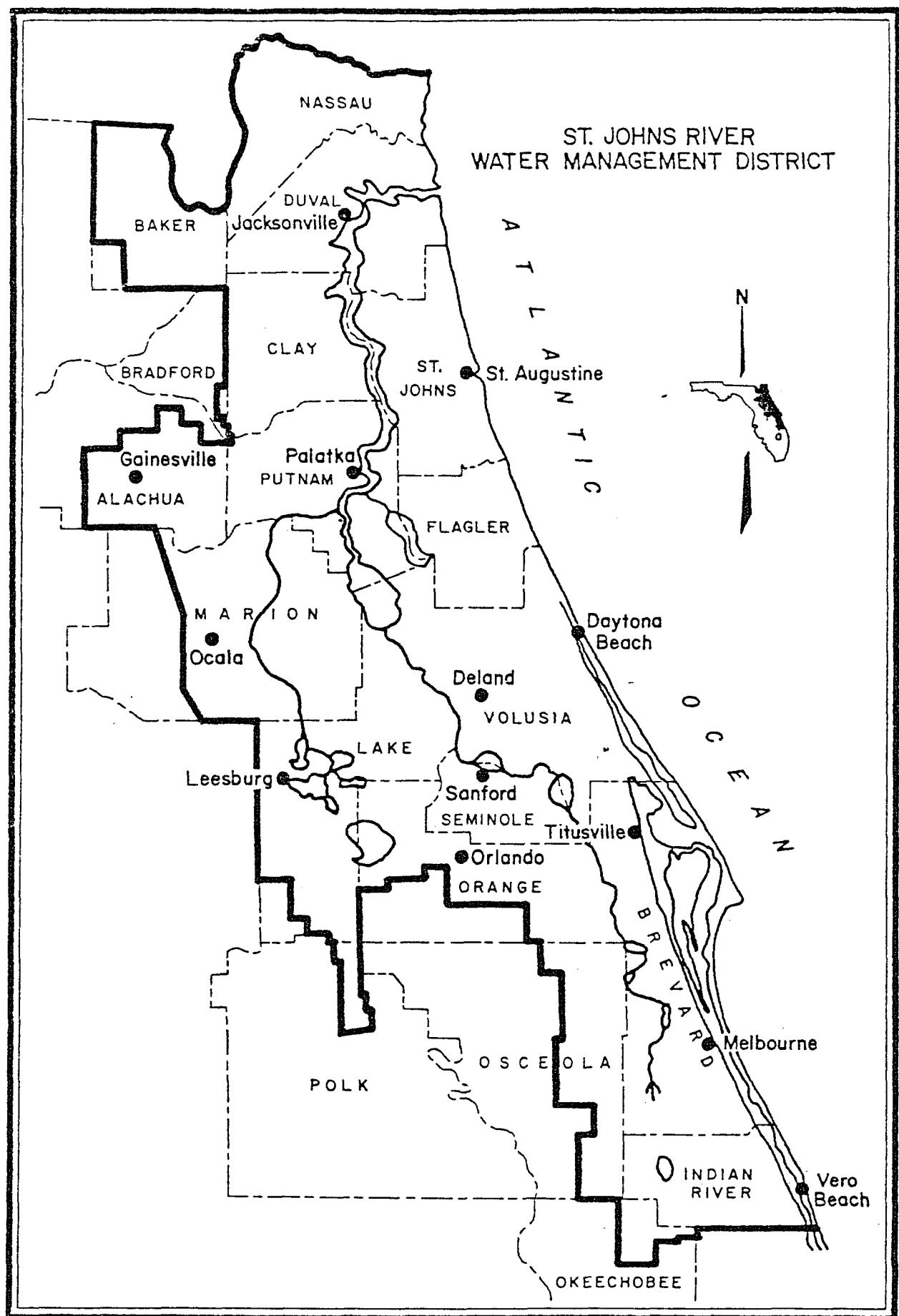


Figure 1. St. Johns River Water Management District

WATER USE BY CATEGORY

Public Supply

The total fresh water use for Public supply is 1981 amounted to 307.27 MGD of which 96% (294.86 MGD) was ground water and 4% (12.41 MGD) surface water. Orange (88.45 MGD) and Duval (74.71 MGD) were the counties with the largest public water use for 1981 (Table 1). Orange County's total includes water withdrawn for the City of Cocoa in Brevard County (17.03 MGD). Duval (436,438) and Orange (378,218) counties also have the largest number of people served by public supply systems. Total population served by the 120 public or private suppliers (utilities that serve 500 or more) accounted for 79% (1,838,698) of the District's population.

TABLE 1. Public Fresh Water Use (MGD): 1981

COUNTY	GROUND	SURFACE	TOTAL	PERCENT
ALACHUA	17.61	-	17.61	6
BAKER	0.54	-	0.54	*
BRADFORD	-	-	-	-
BREVARD	7.13	12.41	19.54	6
CLAY	7.40	-	7.40	2
DUVAL	74.71	-	74.71	24
FLAGLER	1.70	-	1.70	*
INDIAN RIVER	8.07	-	8.07	3
LAKE	13.31	-	13.31	4
MARION	7.55	-	7.55	2
NASSAU	2.90	-	2.90	*
OKEECHOBEE	-	-	-	-
ORANGE	88.45	-	88.45	29
OSCEOLA	-	-	-	-
POLK	-	-	-	-
PUTNAM	2.77	-	2.77	*
SEMINOLE	25.97	-	25.97	8
ST. JOHNS	4.96	-	4.96	2
VOLUSIA	31.79	-	31.79	10
TOTALS	294.86	12.41	307.27	

* less than 1.0%

Domestic Self-Supplied

Domestic self-supplied fresh water use in 1981 amounted to 89.80 MGD of ground water. In 1981, an estimated 497,765 people were served by small utilities not inventoried, or are 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 public supply. The District 1981 average GPCD was 167, although this figure accounted for public supplied commercial and industrial water use as well as a single family use.

In addition to GPCD, total Domestic self-supplied water use was calculated for each county (Table 2). Duval (23.85 MGD), Lake (9.59 MGD) and Marion (8.90 MGD) were the counties with the largest domestic self-supplied water use for 1981.

TABLE 2. Domestic self-supplied Fresh Water Use (MGD): 1981

COUNTY	GROUND	SURFACE	TOTAL	PERCENT
ALACHUA	1.56	-	1.56	2
BAKER	1.47	-	1.47	2
BRADFORD	0.22	-	0.22	*
BREVARD	1.56	-	1.56	2
CLAY	4.43	-	4.43	5
DUVAL	23.85	-	23.85	27
FLAGLER	0.54	-	0.54	*
INDIAN RIVER	7.46	-	7.46	8
LAKE	9.59	-	9.59	11
MARION	8.90	-	8.90	10
NASSAU	5.19	-	5.19	6
OKEECHOBEE	0.06	-	0.06	*
ORANGE	3.16	-	3.16	4
OSCEOLA	0.05	-	0.05	*
POLK	0.79	-	0.79	*
PUTNAM	8.16	-	8.16	9
SEMINOLE	5.67	-	5.67	6
ST. JOHNS	2.62	-	2.62	3
VOLUSIA	4.52	-	4.52	5
TOTALS	89.80	-	89.80	

* less than 1.0%

Industrial Self-Supplied

Industrial self-supplied fresh water use for 1981 accounted for 160.01 MGD of which 144.97 MGD (91%) was ground and 15.04 MGD (9%) surface. Industrial self-supplied use for 1981 includes 7.66 MGD of Institutional self-supplied water use. Nassau (41.41 MGD), Duval (39.20 MGD) and Putnam (37.45 MGD) were the counties with the largest industrial water use for 1981 (Table 3). Pulp and Paper processors are the major water users in Nassau, Putnam and Duval counties.

TABLE 3. Industrial self-supplied Fresh Water Use (MGD): 1981

COUNTY	GROUND	SURFACE	TOTAL	PERCENT
ALACHUA	1.19	-	1.19	*
BAKER	0.30	-	0.30	*
BRADFORD	-	-	-	-
BREVARD	0.15	-	0.15	*
CLAY	5.57	-	5.57	4
DUVAL	39.20	-	39.20	25
FLAGLER	0.04	-	0.04	*
INDIAN RIVER	0.24	-	0.24	*
LAKE	16.07	4.2	20.27	13
MARION	0.91	-	0.91	*
NASSAU	41.41	-	41.41	26
OKEECHOBEE	-	-	-	-
ORANGE	5.85	2.76	8.61	5
OSCEOLA	-	-	-	-
POLK	0.01	-	0.01	*
PUTNAM	29.38	8.07	37.45	23
SEMINOLE	4.03	-	4.03	3
ST. JOHNS	0.01	-	0.01	*
VOLUSIA	0.54	0.01	0.55	*
TOTALS	144.97	15.04	160.01	

* less than 1.0%

Agricultural Irrigation

Agricultural Irrigation fresh water use, which includes Livestock water use, was the largest water use category in 1981 accounting for 1,099.81 MGD. Total ground water withdrawn amounted to 801.68 MGD (73%) and the remaining 298.13 MGD (27%) was surface water. Brevard (411.13 MGD), Indian River (308.59 MGD) and Lake (121.01 MGD) were the counties with the largest Agricultural Irrigation water use for 1981 (Table 4). Citrus and improved pasture are the largest irrigated crops in these three counties (see appendix). Total agricultural acreage for 1981 was 1,104,167 of which 35% was irrigated (388,091). Indian River (94,688), Brevard (83,608) and Lake (69,813) counties accounted for 62% of the irrigated acres in 1981.

TABLE 4. Agricultural Irrigation Fresh Water Use (MGD): 1981

COUNTY	GROUND	SURFACE	TOTAL	PERCENT
ALACHUA	10.20	4.11	14.31	1
BAKER	2.33	0.59	2.92	*
BRADFORD	-	-	-	-
BREVARD	356.14	54.99	411.13	37
CLAY	2.88	1.27	4.15	*
DUVAL	4.97	2.34	7.31	*
FLAGLER	6.96	0.17	7.13	*
INDIAN RIVER	105.67	202.92	308.59	28
LAKE	99.33	21.68	121.01	11
MARION	22.33	2.09	24.42	2
NASSAU	1.59	0.86	2.45	*
OKEECHOBEE	11.18	1.88	13.06	1
ORANGE	53.41	1.04	54.45	5
OSCEOLA	9.13	0.80	9.93	*
POLK	15.07	0.04	15.11	1
PUTNAM	24.31	1.10	25.41	2
SEMINOLE	20.07	0.40	20.47	2
ST. JOHNS	29.86	0.49	30.35	3
VOLUSIA	26.25	1.36	27.61	3
TOTALS	801.68	298.13	1,099.81	

* less than 1.0%

Thermoelectric Power Generation

Thermoelectric Power Generation fresh water use in 1981 amounted to 40.41 MGD. Ground water use totaled 4.21 MGD (10%) while surface water use totaled 36.20 MGD (90%). The total fresh water use in this category represents 2% of the total water use in 1981. The majority of water use in this category is saline surface water (2,551.27 MGD) used for once through cooling. Orange County (30.94 MGD) was the only county with a significant water use value for 1981 (Table 5).

TABLE 5. Thermoelectric Fresh Water Use (MGD): 1981

COUNTY	GROUND	SURFACE	TOTAL	PERCENT
ALACHUA	0.72	-	0.72	2
BAKER	-	-	-	-
BRADFORD	-	-	-	-
BREVARD	0.28	-	0.28	*
CLAY	-	-	-	-
DUVAL	2.48	-	2.48	6
FLAGLER	-	-	-	-
INDIAN RIVER	0.15	-	0.15	*
LAKE	-	-	-	-
MARION	-	-	-	-
NASSAU	-	-	-	-
OKEECHOBEE	-	-	-	-
ORANGE	-	30.94	30.94	76
OSCEOLA	-	-	-	-
POLK	-	-	-	-
PUTNAM	0.24	0.41	0.65	2
SEMINOLE	-	-	-	-
ST. JOHNS	-	-	-	-
VOLUSIA	0.34	4.85	5.19	13
TOTALS	4.21	36.20	40.41	

* less than 1.0%

Heat Pump/Air Conditioning

Heat Pump/Air Conditioning (HP/AC) water use data was only collected for three counties; Brevard, Putnam and Volusia. Total water use for this category amounted to 149.27 MGD. Each county's totals are as follows:

- Brevard; 16,175 HP/AC units - 141.51 MGD
- Putnam; 350 HP/AC units - 1.60 MGD
- Volusia; 1,346 HP/AC units - 6.16 MGD

Data for the remaining 16 counties is presently being inventoried.

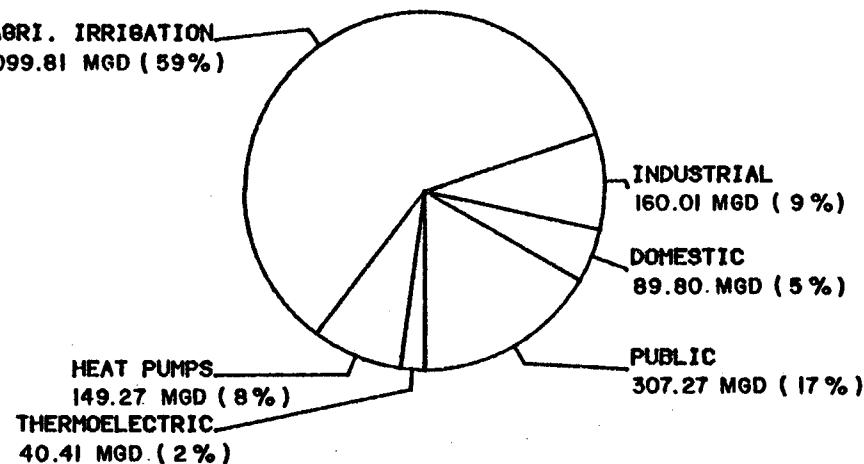
Water Use By Category Summary

Agricultural Irrigation (which includes Livestock water use) was the largest fresh water use category for 1981 (Table 6). This category accounted for 54% of the ground water and 82% of the total fresh surface water used within the District (Figure 2). The second largest category was Public supply using 20% of the total fresh ground water and 3% of the total fresh surface water. Other categories were substantial amounts of ground water were used are Heat Pump/Air Conditioning with 10%, Industrial self-supplied (which includes Institutional self-supplied water use) 10% and Domestic self-supplied 6%. Thermoelectric Power Generation accounted for less than 1% (0.3%) of the total ground water used in 1981. The two major fresh surface water use categories were Agricultural Irrigation (82%) and Thermoelectric Power Generation (10%) accounting for 92% of the total used in 1981. Public supply and Industrial self-supplied accounted for the remaining 8% of total fresh surface water use.

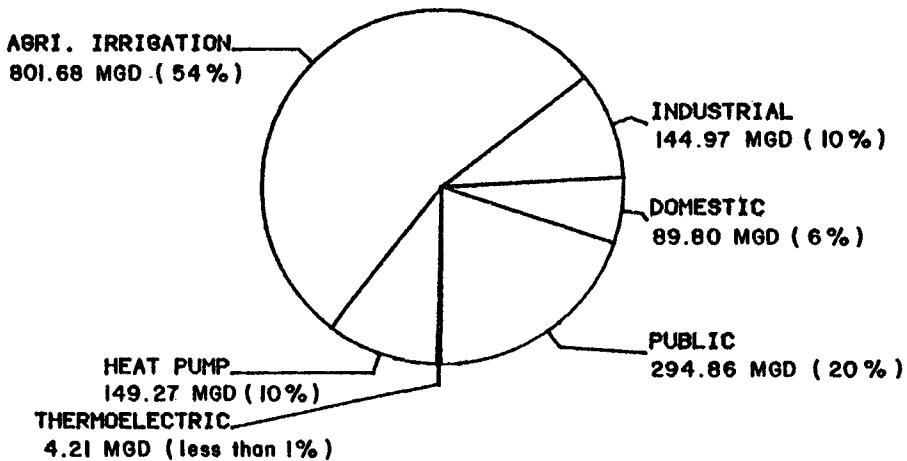
TABLE 6. Total Fresh Water Use (MGD) by Category: 1981

	GROUND	SURFACE	TOTAL
Public	294.86	12.41	307.27
Domestic	89.80	0.0	89.80
Industrial	144.97	15.04	160.01
Agr. Irrigation	801.68	298.13	1,099.81
Thermoelectric	4.21	36.2	40.41
Heat Pump A/C	149.27	0.0	149.27
Total	1,484.79	361.78	1,846.57

FRESH WATER USE (MGD) BY CATEGORY 1981



FRESH GROUND WATER USE (MGD) BY CATEGORY 1981



FRESH SURFACE WATER USE (MGD) BY CATEGORY 1981

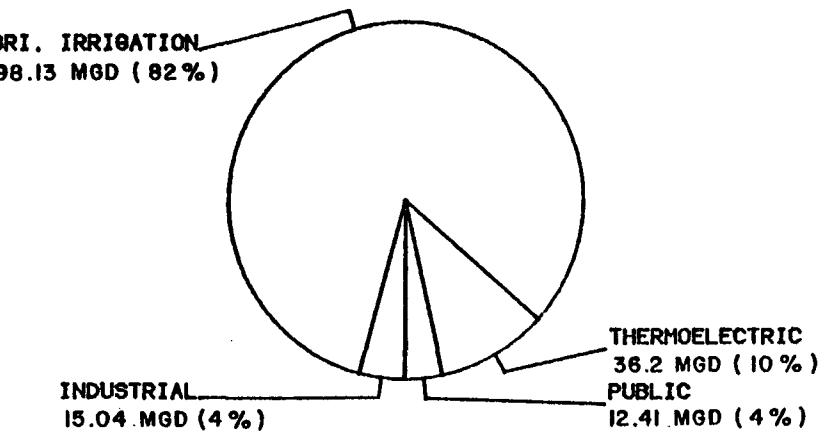


Figure 2. 1981 Water Use by Category

WATER USE BY COUNTY

Brevard and Indian River Counties were the largest fresh water use counties for 1981 (figure 3) accounting for 574.17 MGD (31%) and 324.51 MGD (18%) respectively. Orange (185.61 MGD), Lake (164.28 MGD) and Duval (147.55 MGD) are the next three largest fresh water use counties for 1981.

Brevard County, the largest fresh ground water use county in 1981, accounted for 506.77 MGD. Other counties which withdrew over 100 MGD of fresh ground water are Orange (150.87 MGD), Duval (145.21 MGD), Lake (138.30 MGD) and Indian River (121.59 MGD).

Indian River County was the largest fresh surface water use county in 1981 accounting for 202.92 MGD. Other counties using substantial amounts of surface water were Brevard (67.40 MGD), Orange (34.74 MGD) and Lake (25.88 MGD).

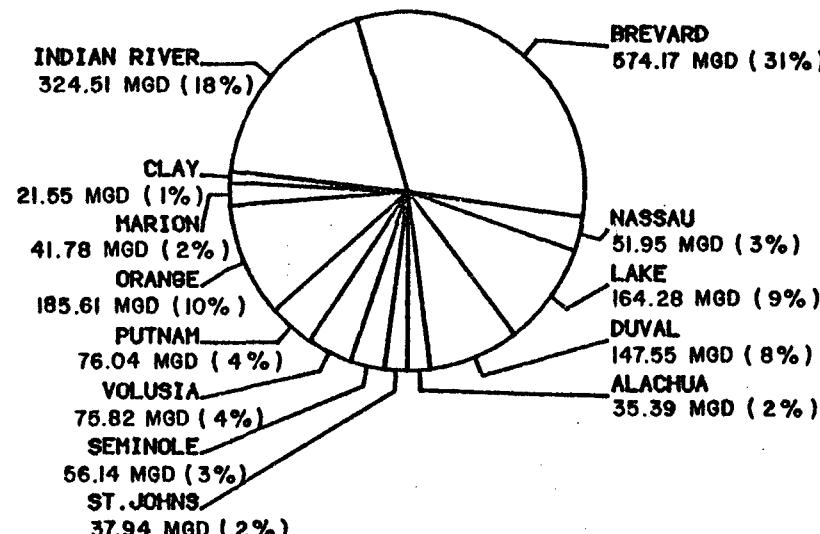
Figure 4 shows what portion of each county's fresh water use is ground and surface water (refer to Table 7 for actual values).

TABLE 7. Total Fresh Water Use (MGD) by County: 1981

COUNTY	GROUND	PERCENT	SURFACE	PERCENT	TOTAL	PERCENT
ALACHUA	31.28	2	4.11	1	35.39	2
BAKER	4.64	*	0.59	*	5.23	*
BRADFORD	0.22	*	-	-	0.22	*
BREVARD	506.77	34	67.40	18	574.17	31
CLAY	20.28	1	1.27	*	21.55	1
DUVAL	145.21	10	2.34	*	147.55	8
FLAGLER	9.24	*	0.17	*	9.41	*
INDIAN RIVER	121.59	8	202.92	56	324.51	18
LAKE	138.30	9	25.88	7	164.28	9
MARION	39.69	3	2.09	*	41.78	2
NASSAU	51.09	3	0.86	*	51.95	3
OKEECHOBEE	11.24	*	1.88	*	13.12	*
ORANGE	150.87	10	34.74	10	185.61	10
OSCEOLA	9.18	*	0.80	*	9.98	*
POLK	15.87	1	0.04	*	15.91	*
PUTNAM	66.46	5	9.58	3	76.04	4
SEMINOLE	55.74	4	0.40	*	56.14	3
ST. JOHNS	37.45	3	0.49	*	37.94	2
VOLUSIA	69.60	5	6.22	2	75.82	4
TOTALS	1,484.77		361.78		1,846.57	

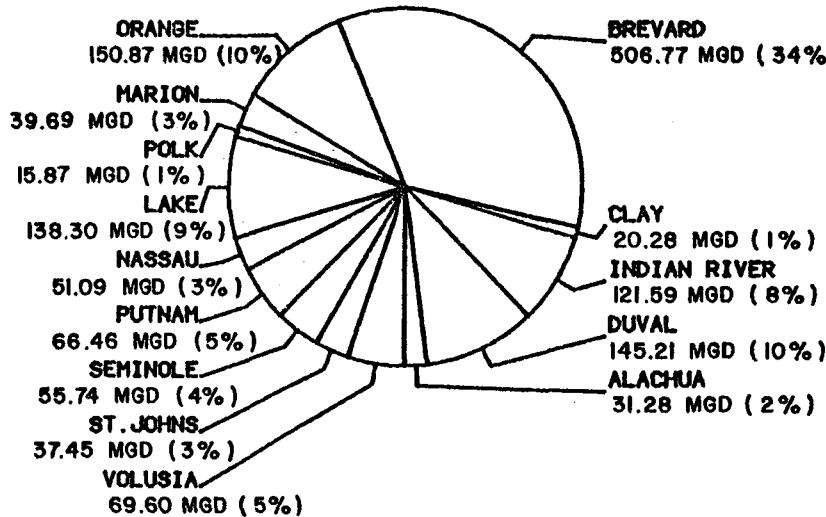
* less than 1.0%

FRESH WATER USE (MGD) BY COUNTY - 1981



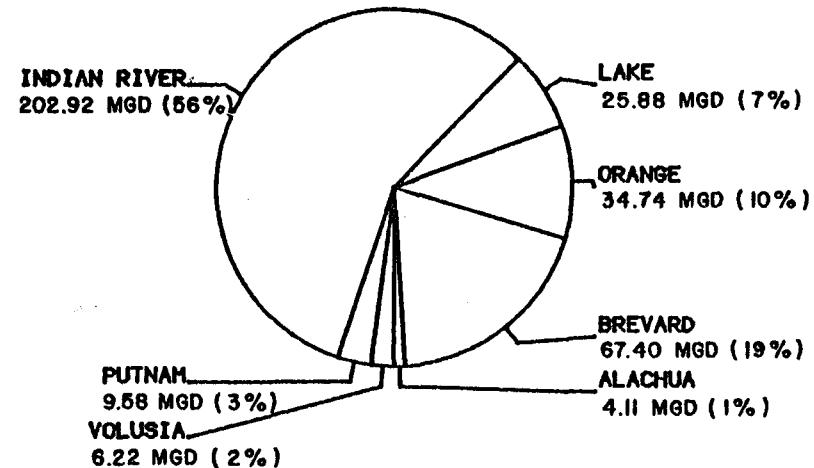
NOTE: BAKER (4.64 MGD), BRADFORD (0.22 MGD), FLAGLER (0.24 MGD), OKEECHOBEE (0.17 MGD), AND OSCEOLA (0.18 MGD) COUNTIES ARE TOO SMALL TO DEPICT (LESS THAN 1.0%).

FRESH GROUND WATER USE (MGD) BY COUNTY - 1981



NOTE: BAKER (5.29 MGD), BRADFORD (0.22 MGD), FLAGLER (0.41 MGD), OKEECHOBEE (19.12 MGD), OSCEOLA (0.98 MGD), AND POLK (15.6 MGD) COUNTIES ARE TOO SMALL TO DEPICT (LESS THAN 1.0%).

FRESH SURFACE WATER USE (MGD) BY COUNTY - 1981



NOTE: BAKER (0.59 MGD), CLAY (1.27 MGD), DUVAL (2.34 MGD), FLAGLER (0.17 MGD), MARION (2.09 MGD), NASSAU (0.86 MGD), OKEECHOBEE (1.88 MGD), OSCEOLA (0.80 MGD), POLK (0.04 MGD), SEMINOLE (0.48 MGD), AND ST. JOHNS (0.49 MGD) COUNTIES ARE TOO SMALL TO DEPICT (LESS THAN 1.0%).

Figure 3. 1981 Water Use by County

SJRWMD-1981

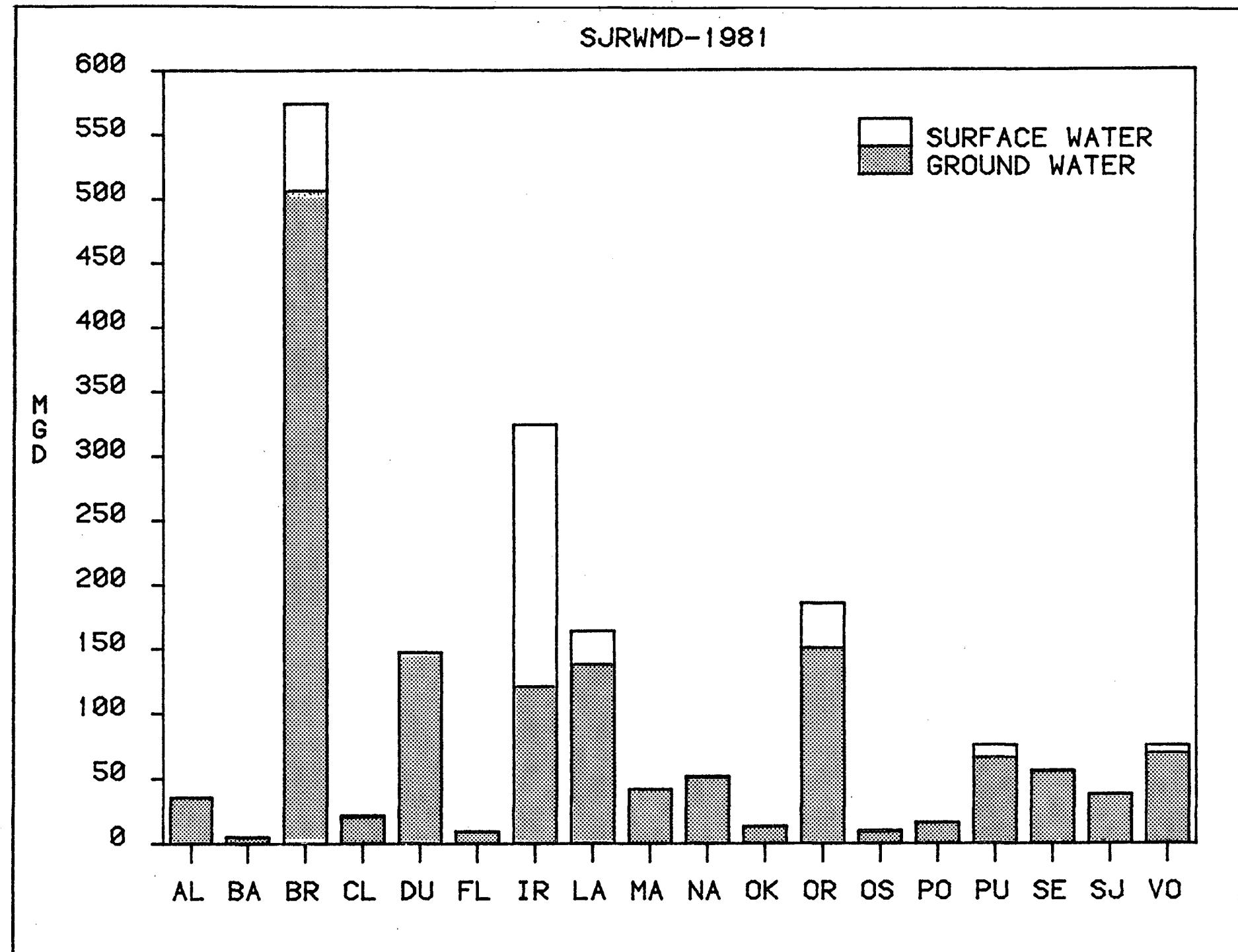


Figure 4. 1981 County Water Use by Source

WATER USE BY SURFACE WATER BASIN

The Upper St. Johns River Basin is the largest fresh ground water use basin (485.71 MGD) for 1981 (Figure 5). The Oklawaha River Basin 254.18 MGD, Lower St. Johns River Basin 255.48 MGD, Middle St. Johns River Basin 177.62 MGD, and the Lower Coastal Basin 119.65 MGD all use over 100 MGD of ground water (Table 8). These 5 basins account for 87% of the ground water withdrawals for 1981.

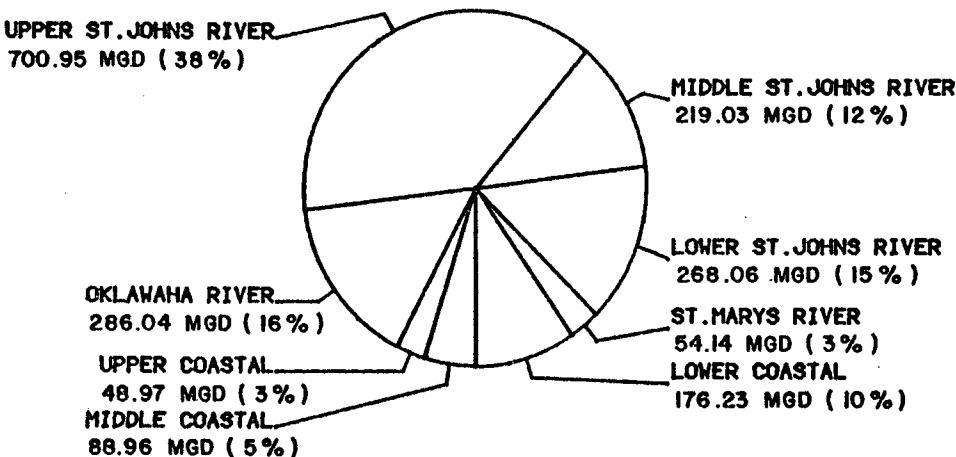
The Upper St. Johns River Basin was also the largest fresh surface water use basin with 215.24 MGD. This basin accounted for 59.4% of the total fresh surface water used in 1981. The Lower Coastal Basin (56.58 MGD) and the Middle St. Johns River Basin (41.41 MGD) are the only other significant users of fresh surface water for 1981. (Refer to Figure 6 for surface water basin locations).

TABLE 8. Surface Water Basin Fresh Water Use (MGD): 1981

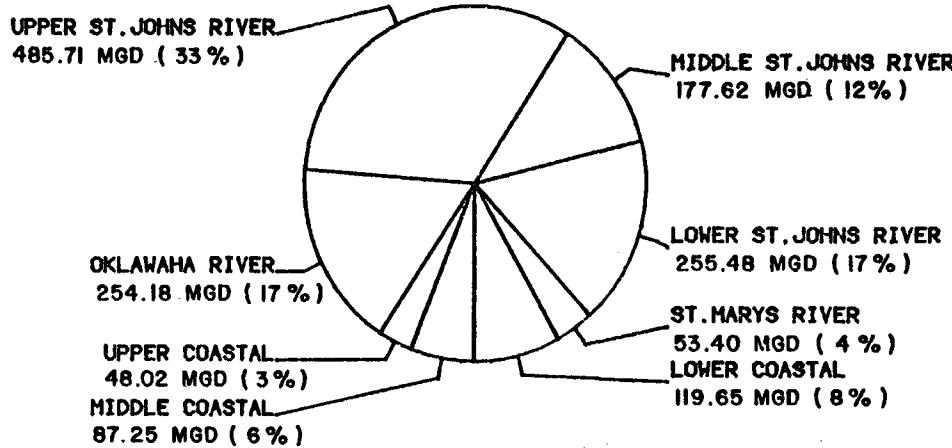
Surface Water Basin	Ground	Percent	Surface	Percent	Total	Percent
Nassau River	3.48	*	0.71	*	4.19	*
St. Marys River	53.40	4	0.74	*	54.14	3
Lower St. Johns River	255.48	17	12.58	4	268.06	15
Middle St. Johns River	177.62	12	41.41	12	219.03	12
Upper St. Johns River	485.71	33	215.24	59	700.95	38
Oklawaha	254.18	17	31.86	9	286.04	16
Upper Coastal	48.02	3	0.95	*	48.97	3
Middle Coastal	87.25	6	1.71	*	88.96	5
Lower Coastal	119.65	8	56.58	16	176.23	10
TOTAL	1,484.79		361.78		1,846.57	

* less than 1.0%

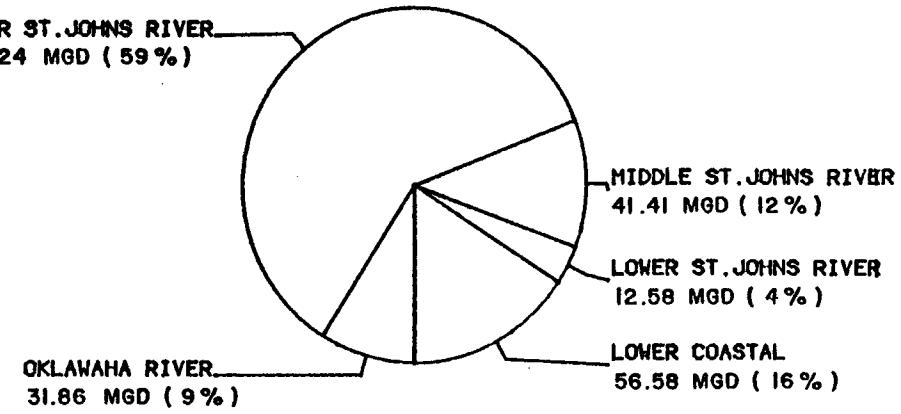
FRESH WATER USE (MGD) BY SURFACE WATER BASIN, 1981



FRESH GROUND WATER USE (MGD) BY SURFACE WATER BASIN, 1981



FRESH SURFACE WATER USE (MGD) BY SURFACE WATER BASIN, 1981



NOTE: ST. MARYS RIVER (0.74 MGD), NASSAU RIVER (0.71 MGD), UPPER COASTAL (0.95 MGD) AND MIDDLE COASTAL (1.71 MGD) BASINS ARE TOO SMALL TO DEPICT (LESS THAN 1.0%).

Figure 5. 1981 Water Use by Surface Water Basin

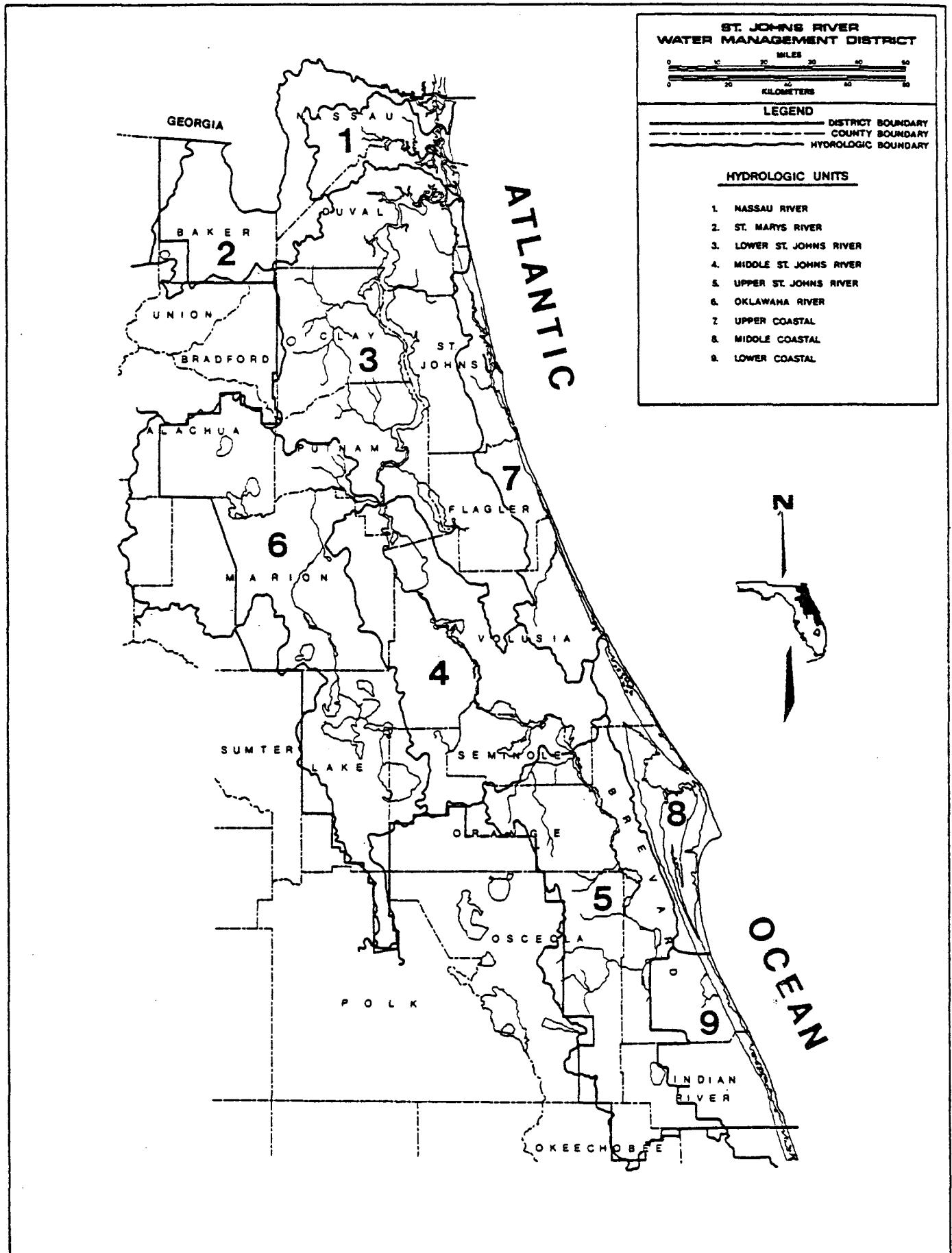
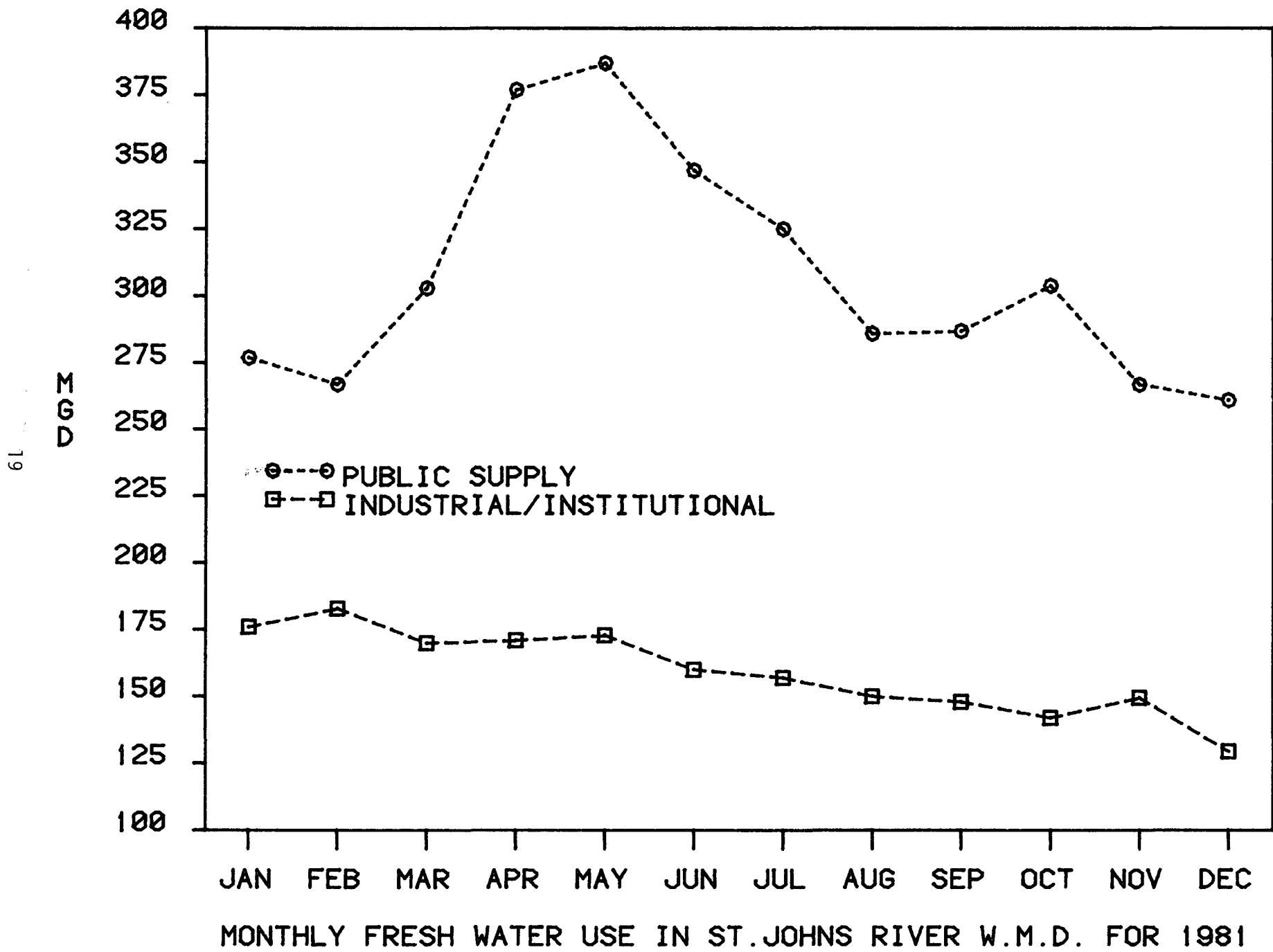


FIGURE 6. ST. JOHNS RIVER WATER MANAGEMENT DISTRICT HYDROLOGIC UNIT MAP

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FLORIDA : 1981

Total Population: 10,105,957

Total Area: 58,569 sq. miles (37,478,400 acres)

St. Johns River Water Management Portion

Population: 2,336,463

Population Public Supply: 1,838,698

Population Domestic Self-supplied: 497,765

Gallons Per Capita Day: 167

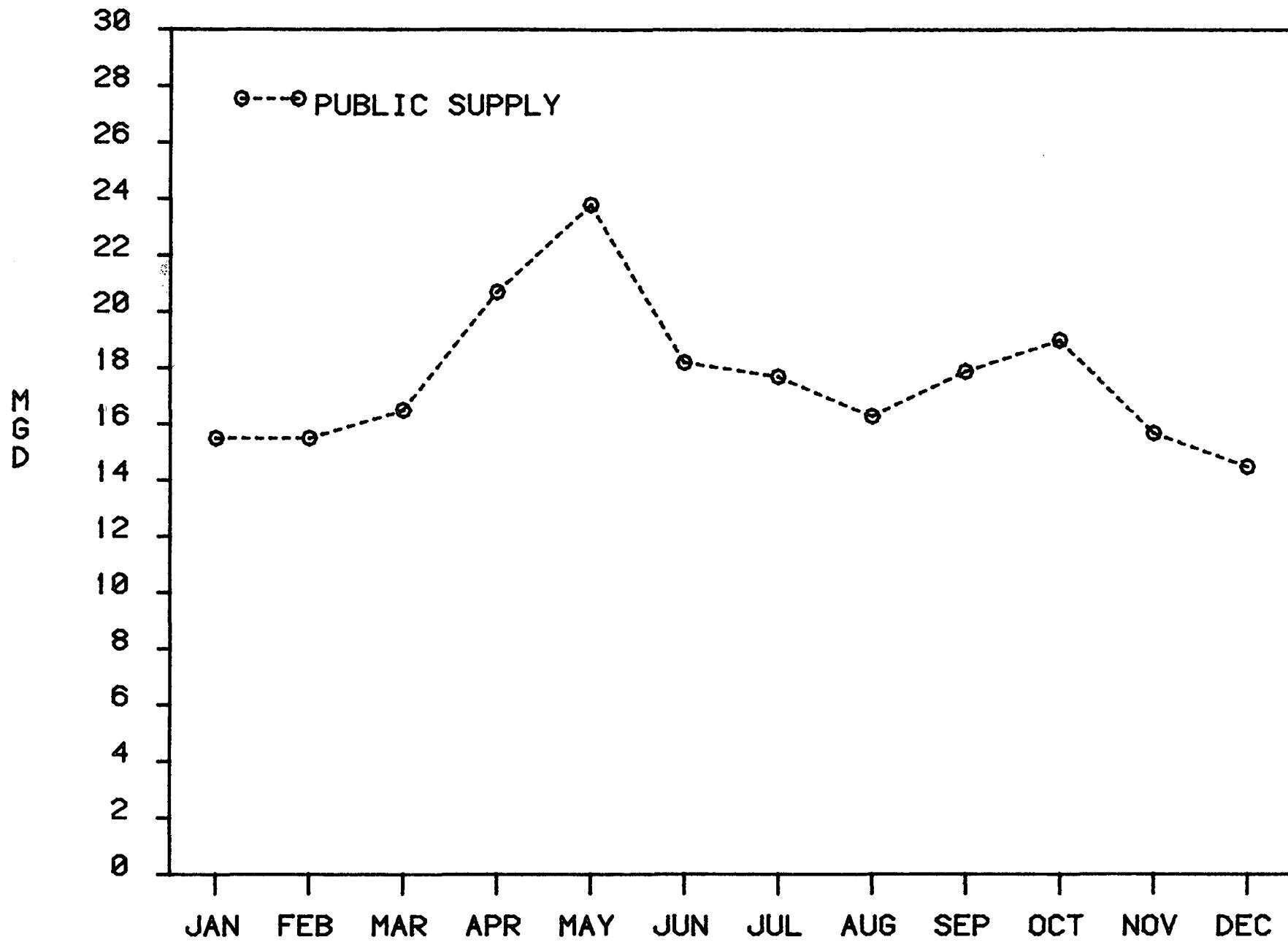
Area: 12,341 sq.miles (7,898,240 acres)

Acres Farmed: 1,104,167

Acres Irrigated: 388,091

Fresh Water Use 1981 (MGD)

	GROUND	SURFACE	TOTAL
Public	294.86	12.41	307.27
Domestic	89.80	0.0	89.80
Industrial	144.97	15.04	160.01
Agricultural Irrigation	801.68	298.13	1099.81
Thermoelectric	4.21	36.20	40.41
Heat pump/air condition	149.27	0.0	149.27
TOTALS	1484.79	361.78	1846.67



MONTHLY FRESH WATER USE IN ALACHUA COUNTY FOR 1981

COUNTY: ALACHUA

Total Population: 151,348

Total Area: 961 sq.miles

St. Johns River Water Management Portion

Population : 110,686

Population Public Supply: 101,430*

Population Domestic Self-supplied: 9,256

Gallons Per Capita Day: 168

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

Acres Farmed: 87,316

Acres Irrigated: 9,597

Fresh Water Use 1981 (MGD)

	GROUND	SURFACE	TOTAL
Public	17.61	0.0	17.61
Domestic	1.56	0.0	1.56
Industrial	1.19	0.0	1.19
Agricultural Irrigation	10.20	4.11	14.31
Thermoelectric	0.72	0.0	0.72
Heat pump/air condition	0.0	0.0	0.0
 TOTALS	31.28	4.11	35.39

*Does not include 3,498 people served by Gainesville Regional Utility who live in Suwannee River Water Management District.

ALACHUA

TABLE A-1 ACRES FARMED AND IRRIGATED

ALACHUA COUNTY (1)

1981

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

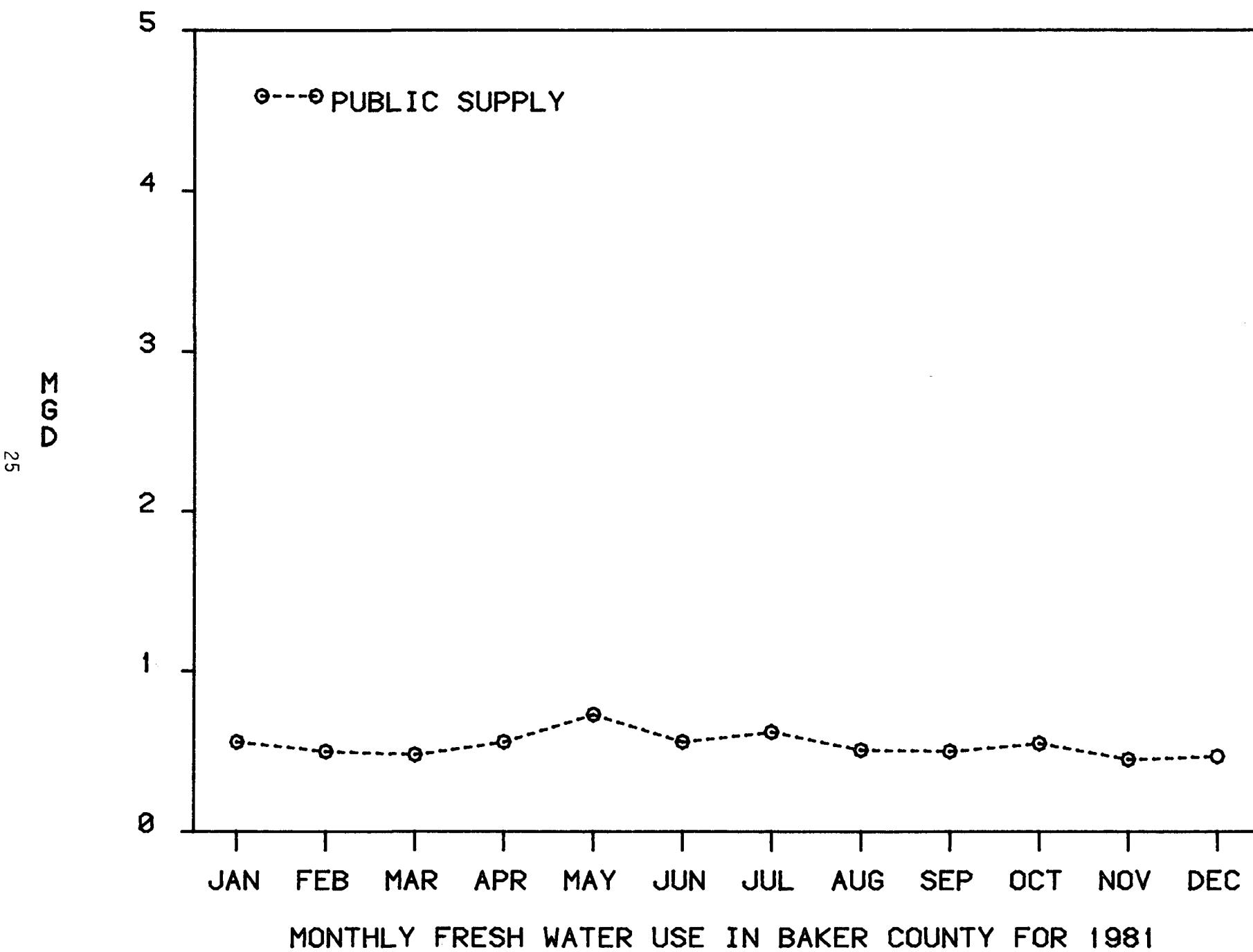
1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.

TABLE A-2 IRRIGATION WATER USE

ALACHUA COUNTY

1981

CROP	APPLICATION RATES			WATER WITHDRAWN				
	SPRINKLER (ACRE-INCHES/YR)	SEEPAGE (ACRE-INCHES/YR)	LOW PRESSURE/VOL	TOTAL AC. ET	GROUND (MGD)	SURFACE (MGD)	RE-USED (MGD)	TOTAL (MGD)
CABBAGE	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CARROTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CUCUMBERS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
POTATOES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SWEET CORN	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
WATERCRESS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. VEGETABLES	7.17	0.0	0.0	1569	1.4	0.0	0.0	1.4
BLUEBERRIES	10.0	0.0	8.0	18	0.02	0.0	0.0	0.02
CITRUS	20.18	0.0	0.0	168	0.15	0.0	0.0	0.15
GRAPE	0.0	0.0	19.33	32	0.02	0.0	0.0	0.02
PEACHES	38.54	0.0	30.83	450	0.34	0.06	0.0	0.4
PEANUTS	7.5	0.0	0.0	63	0.05	0.01	0.0	0.06
PECANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
WATERMELONS	6.93	0.0	0.0	470	0.35	0.07	0.0	0.42
MISC. FRUIT	18.0	0.0	0.0	23	0.02	0.0	0.0	0.02
FIELD CORN	13.32	0.0	0.0	1000	0.8	0.09	0.0	0.89
SORGHUM	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SOYBEANS	11.04	0.0	0.0	1863	1.5	0.16	0.0	1.66
TOBACCO	11.54	0.0	0.0	77	0.07	0.0	0.0	0.07
MISC. GRAINS	14.08	0.0	0.0	1232	0.88	0.22	0.0	1.1
FERNS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FLOWERS & FOLIAGE	65.0	0.0	48.0	1219	1.09	0.0	0.0	1.09
IMPROVED PASTURE	36.28	0.0	0.0	3628	2.43	0.81	0.0	3.24
SHRUBS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SOD	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
TURF GRASS	36.28	0.0	0.0	428	0.72	0.0	0.0	0.72
LIVESTOCK					0.72	0.0	0.0	0.72
TOTAL				12240	10.56	1.42	0.0	11.98



COUNTY: BAKER

Total Population: 15,801

Total Area: 588 sq.miles

St. Johns River Water Management Portion

Population : 15,011

Population Public Supply: 4,025

Population Domestic Self-supplied: 10,986

Gallons Per Capita Day: 134

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

Acres Farmed: 15,000

Acres Irrigated: 480

Fresh Water Use 1981 (MGD)

	GROUND	SURFACE	TOTAL
Public	0.54	0.0	0.54
Domestic	1.47	0.0	1.47
Industrial	0.30	0.0	0.30
Agricultural Irrigation	2.33	0.59	2.92
Thermoelectric	0.0	0.0	0.0
Heat pump/air condition	0.0	0.0	0.0
TOTALS	4.64	0.59	5.23

BAKER

TABLE A-3 ACRES FARMED AND IRRIGATED

BAKER COUNTY

1981

CROE	TOTAL ACRES	IRRIGATED ACRES	IRRIGATION METHODS USED (ACRES)			
			SPRINKLER	TILE SEEPAGE	FLOOD AND SEEPAGE	LOW PRESSURE- LOW VOLUME
CARRAGE	100	0	0	0	0	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	100	0	0	0	0	0
POTATOES	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	0	0	0	0	0	0
CITRUS	0	0	0	0	0	0
GRAPEs	0	0	0	0	0	0
PEACHES	0	0	0	0	0	0
PEANUTS	100	0	0	0	0	0
PECANS	200	0	0	0	0	0
WATERMELONS	400	0	0	0	0	0
MISC. FRUITS	0	0	0	0	0	0
FIELD CORN	4,467	0	0	0	0	0
SORGHUM	0	0	0	0	0	0
SOYBEANS	500	0	0	0	0	0
TOBACCO	186	80	80	0	0	0
MISC. GRAINS	0	0	0	0	0	0
FERNS	0	0	0	0	0	0
FLOWERS & FOLIAGE	1,200	200	200	0	0	0
IMPROVED PASTURE	7,000	0	0	0	0	0
SHRUBS	0	0	0	0	0	0
SOD	0	0	0	0	0	0
TURF GRASS	125	100	100	0	0	0
 TOTAL	 15,000	 480	 480	 0	 0	 0

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

TABLE A-4 IRRIGATION WATER USE

BAKER COUNTY

1981

CROE	APPLICATION RATES			WATER WITHDRAWN				
	SPRINKLER	ACRE INCHES/YR		TOTAL AC. ET	GROUN		(MGD)	TOTAL
		SEEPAGE	LOW PRESSURE/VOL		GROUND	SURFACE		
CABBAGE	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CARROTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CUCUMBERS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
POTATOES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SWEET CORN	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
WATERCRESS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. VEGETABLES	14.67	0.0	0.0	122	0.11	0.0	0.0	0.11
BLUEBERRIES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CITRUS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
GRAPEs	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PEACHES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PEANUTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PECANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
WATERMELONS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. FRUIT	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FIELD CORN	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SORGHUM	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SOYBEANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
TOBACCO	11.54	0.0	0.0	77	0.07	0.0	0.0	0.07
MISC. GRAINS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FERNS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FLOWERS & FOLIAGE	100.0	0.0	0.0	1667	1.49	0.0	0.0	1.49
IMPROVED PASTURE	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SHRUBS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SOD	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
TURF GRASS	33.23	0.0	0.0	277	0.25	0.0	0.0	0.25
LIVESTOCK					0.41	0.59	0.0	1.0
TOTAL				2143	2.33	0.59	0.0	2.92

**NOTE: THERE WAS NO PUBLIC OR INDUSTRIAL PUMPAGE IN BRADFORD COUNTY
WITHIN THE ST.JOHNS RIVER WATER MANAGEMENT DISTRICT FOR 1981.**

COUNTY: BRADFORD

Total Population: 20,118

Total Area: 305 sq.miles

St. Johns River Water Management Portion

Population : 1,320

Population Public Supply: -0-

Population Domestic Self-supplied: 1,320

Gallons Per Capita Day: 167 (district average)

Land Area: 6 sq.miles (3,480 acres)

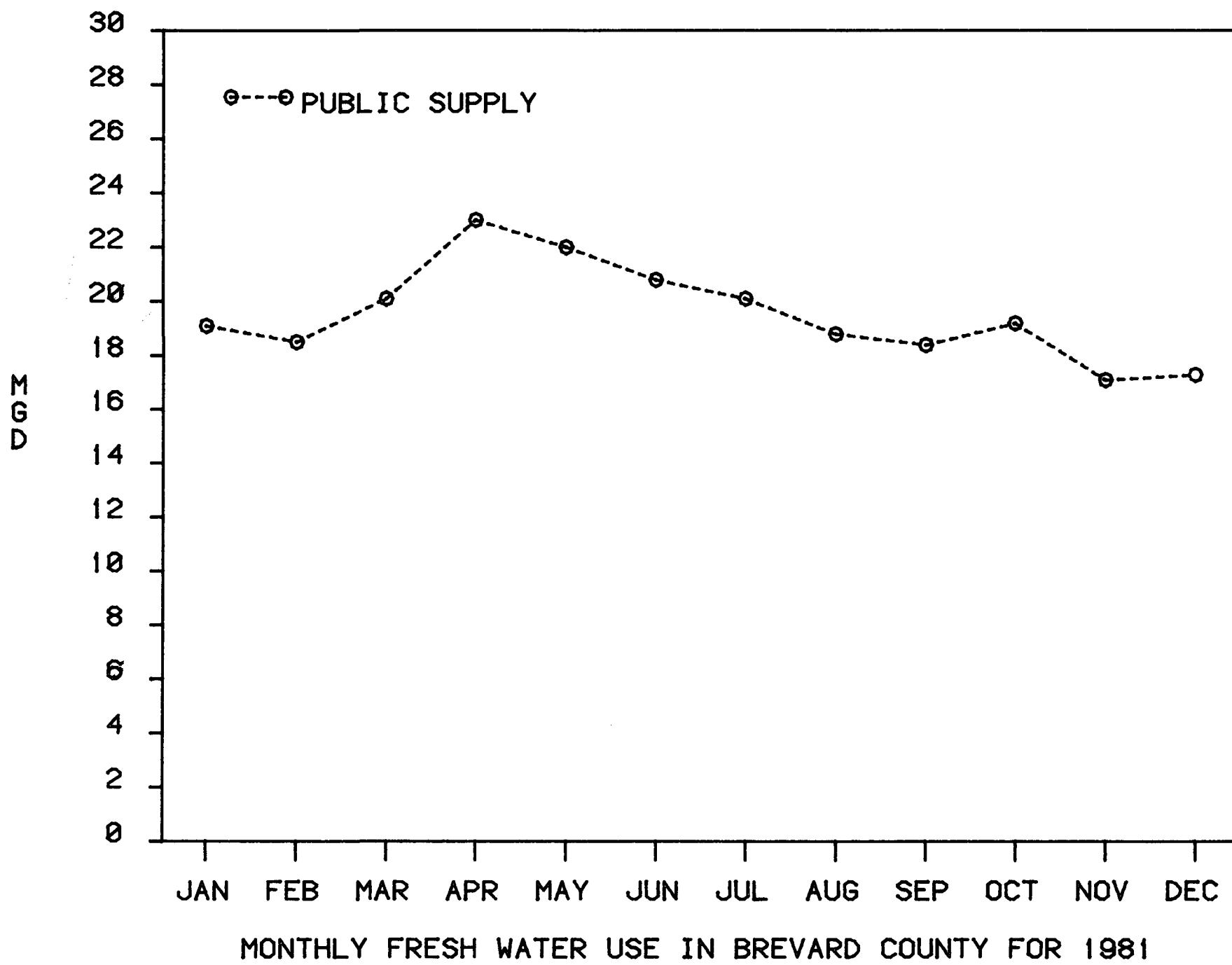
Acres Farmed: -0-

Acres Irrigated: -0-

Fresh Water Use 1981 (MGD)

	GROUND	SURFACE	TOTAL
Public	0.0	0.0	0.0
Domestic	0.22	0.0	0.22
Industrial	0.0	0.0	0.0
Agricultural Irrigation	0.0	0.0	0.0
Thermoelectric	0.0	0.0	0.0
Heat pump/air condition	0.0	0.0	0.0
TOTALS	0.22	0.0	0.22

BRADFORD



COUNTY: BREVARD

Total Population: 281,496

Total Area: 1,310 sq.miles

St. Johns River Water Management District Portion

Population : 281,496

Population Public Supply: 269,983

Population Domestic Self-supplied: 11,513

Gallons Per Capita Day: 136

Land Area: 996 sq.miles (636,800 acres)

Acres Farmed: 147,912

Acres Irrigated: 83,608

Fresh Water Use 1981 (MGD)

	GROUND	SURFACE	TOTAL
Public	7.13	12.41	19.54
Domestic	1.56	0.0	1.56
Industrial	0.15	0.0	0.15
Agricultural Irrigation	356.14	54.99	411.13
Thermoelectric	0.28	0.0	0.28
Heat pump/air condition	141.51	0.0	151.51
TOTALS	506.77	67.40	574.17

BREVARD

TABLE A-5 ACRES FARMED AND IRRIGATED

BREVARD COUNTY

1981

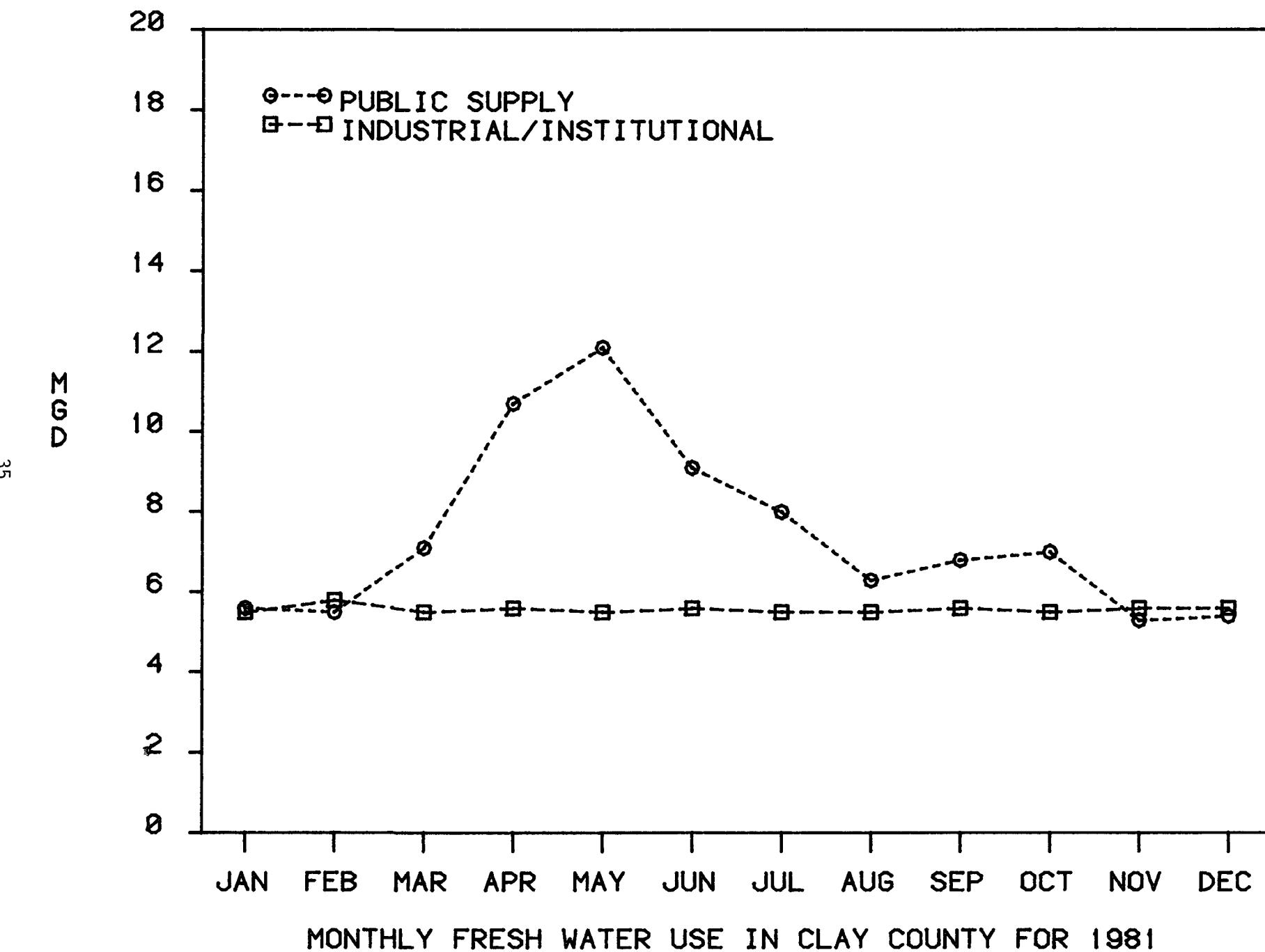
CROP	TOTAL ACRES	IRRIGATED ACRES	IRRIGATION METHODS USED (ACRES)			
			SPRINKLER	TILE SEEPAGE	FLOOD AND SEEPAGE	LOW PRESSURE- LOW VOLUME
CABBAGE	0	0	0	0	0	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	0	0	0	0	0	0
POTATOES	0	0	0	0	0	0
SWEET CORN	0	0	0	0	0	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	200	150	50	0	100	0
BLUEBERRIES	0	0	0	0	0	0
CITRUS	23,000	17,599	8,448	0	8,271	880
GRAPES	0	0	0	0	0	0
PEACHES	0	0	0	0	0	0
PEANUTS	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
WATERMELONS	150	150	150	0	0	0
MISC. FRUITS	0	0	0	0	0	0
FIELD CORN	60	0	0	0	0	0
SORGHUM	50	50	0	0	50	0
SOYBEANS	0	0	0	0	0	0
TOBACCO	0	0	0	0	0	0
MISC. GRAINS	0	0	0	0	0	0
FERNS	0	0	0	0	0	0
FLOWERS & FOLIAGE	10	10	10	0	0	0
IMPROVED PASTURE	121,700	63,336	0	0	63,336	0
SHRUBS	190	190	190	0	0	0
SOD	1,000	1,000	1,000	0	0	0
TURF GRASS	1,552	1,123	1,123	0	0	0
 TOTAL	 147,912	 83,608	 10,971	 0	 71,757	 880

TABLE A-6 IRRIGATION WATER USE

BREVARD COUNTY

1981

CROP	APPLICATION RATES			WATER WITHDRAWN				TOTAL Irrigation Water Used	
	(ACRE-INCHES/YR)			TOTAL AC. ET	GROUND WATER (MGD)	SUBEACE WATER (MGD)	RE-USED WATER (MGD)		
	SPRINKLER	SEEPAGE	LOW PRESSURE VOL						
CABBAGE	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	
CARROTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	
CUCUMBERS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	
POTATOES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	
SWEET CORN	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	
WATERCRESS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	
MISC. VEGETABLES	13.06	20.89	0.0	228	0.11	0.9	0.0	1.01	
BLUEBERRIES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	
CITRUS	24.93	39.89	20.99	63515	50.0	6.7	0.0	56.7	
GRAPEs	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	
PEACHES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	
PEANUTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	
PECANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	
WATERMELONS	13.74	0.0	0.0	172	0.13	0.02	0.0	0.15	
MISC. FRUIT	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	
FIELD CORN	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	
SORGHUM	0.0	13.8	0.0	58	0.05	0.0	0.0	0.05	
SOYBEANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	
TOBACCO	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	
MISC. GRAINS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	
FERNS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	
FLOWERS & FOLIAGE	100.0	0.0	0.0	83	0.07	0.0	0.0	0.07	
IMPROVED PASTURE	0.0	73.22	0.0	386455	300.0	45.0	0.0	345.0	
SHRUBS	42.61	0.0	0.0	675	0.6	0.0	0.0	0.6	
SOD	45.76	0.0	0.0	3813	3.4	0.0	0.0	3.4	
TURF GRASS	45.76	0.0	0.0	4213	1.26	2.0	0.5	3.26	
LIVESTOCK					0.52	0.37	0.0	0.89	
TOTAL				459212	356.14	54.99	0.5	411.13	



COUNTY: CLAY

Total Population: 69,745

Total Area: 644 sq.miles

St. Johns River Water Management District Portion

Population : 69,745

Population Public Supply: 42,618

Population Domestic Self-supplied: 26,127

Gallons Per Capita Day: 170

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

Acres Farmed: 43,395

Acres Irrigated: 575

Fresh Water Use 1981 (MGD)

	GROUND	SURFACE	TOTAL
Public	7.40	0.0	7.40
Domestic	4.43	0.0	4.43
Industrial	5.57	0.0	5.57
Agricultural Irrigation	2.88	1.27	4.15
Thermoelectric	0.0	0.0	0.0
Heat pump/air condition	0.0	0.0	0.0
TOTALS	20.28	1.27	21.55

CLAY

TABLE A-7 ACRES FARMED AND IRRIGATED

CLAY COUNTY

1981

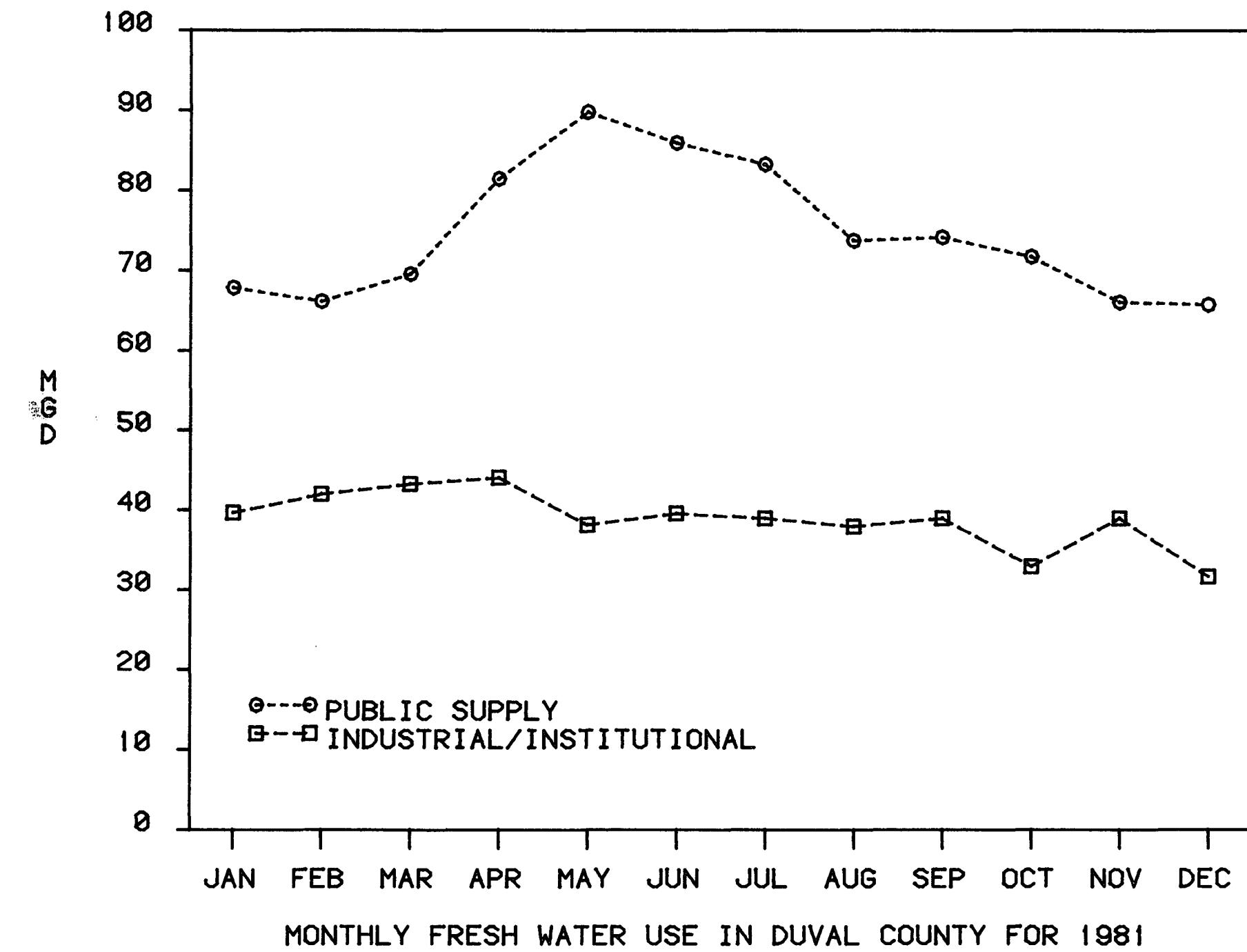
CROP	TOTAL ACRES	IRRIGATION METHODS USED (ACRES)				
		IRRIGATED ACRES	SPRINKLER	TILE SEEAGE	FLOOD AND SEEPAGE	LOW PRESSURE- LOW VOLUME
CABBAGE	0	0	0	0	0	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	0	0	0	0	0	0
POTATOES	0	0	0	0	0	0
SWEET CORN	0	0	0	0	0	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	200	50	50	0	0	0
BLUEBERRIES	0	0	0	0	0	0
CITRUS	0	0	0	0	0	0
GRAPES	0	0	0	0	0	0
PEACHES	0	0	0	0	0	0
PEANUTS	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
WATERMELONS	0	0	0	0	0	0
MISC. FRUITS	0	0	0	0	0	0
FIELD CORN	1,200	100	60	0	40	0
SORGHUM	0	0	0	0	0	0
SOYBEANS	0	0	0	0	0	0
TOBACCO	0	0	0	0	0	0
MISC. GRAINS	2,800	0	0	0	0	0
FERNS	0	0	0	0	0	0
FLOWERS & FOLIAGE	50	50	50	0	0	0
IMPROVED PASTURE	40,000	275	0	0	175	100
SHRUBS	0	0	0	0	0	0
SOD	0	0	0	0	0	0
TURF GRASS	145	100	100	0	0	0
 TOTAL	 43,395	 575	 260	 0	 215	 100

TABLE A-8 IRRIGATION WATER USE

CLAY COUNTY

1981

CROE	APPLICATION RATES			WATER WITHDRAWN					
	SPRINKLER	(ACRE INCHES/YR)	SEEPAGE	LOW PRESSURE/VOL	TOTAL AC ET	GROUND	SURFACE	RE-USED	TOTAL (MGD)
CABBAGE	0.0	0.0	0.0		0	0.0	0.0	0.0	0.0
CARROTS	0.0	0.0	0.0		0	0.0	0.0	0.0	0.0
CUCUMBERS	0.0	0.0	0.0		0	0.0	0.0	0.0	0.0
POTATOES	0.0	0.0	0.0		0	0.0	0.0	0.0	0.0
SWEET CORN	0.0	0.0	0.0		0	0.0	0.0	0.0	0.0
WATERCRESS	0.0	0.0	0.0		0	0.0	0.0	0.0	0.0
MISC. VEGETABLES	6.69	0.0	0.0		28	0.02	0.0	0.0	0.02
BLUEBERRIES	0.0	0.0	0.0		0	0.0	0.0	0.0	0.0
CITRUS	0.0	0.0	0.0		0	0.0	0.0	0.0	0.0
GRAPES	0.0	0.0	0.0		0	0.0	0.0	0.0	0.0
PEACHES	0.0	0.0	0.0		0	0.0	0.0	0.0	0.0
PEANUTS	0.0	0.0	0.0		0	0.0	0.0	0.0	0.0
PECANS	0.0	0.0	0.0		0	0.0	0.0	0.0	0.0
WATERMELONS	0.0	0.0	0.0		0	0.0	0.0	0.0	0.0
MISC. FRUIT	0.0	0.0	0.0		0	0.0	0.0	0.0	0.0
FIELD CORN	15.65	25.04	0.0		162	0.14	0.0	0.0	0.14
SORGHUM	0.0	0.0	0.0		0	0.0	0.0	0.0	0.0
SOYBEANS	0.0	0.0	0.0		0	0.0	0.0	0.0	0.0
TOBACCO	0.0	0.0	0.0		0	0.0	0.0	0.0	0.0
MISC. GRAINS	0.0	0.0	0.0		0	0.0	0.0	0.0	0.0
FERNS	0.0	0.0	0.0		0	0.0	0.0	0.0	0.0
FLOWERS & FOLIAGE	62.3	0.0	0.0		260	0.23	0.0	0.0	0.23
IMPROVED PASTURE	0.0	56.46	31.28		1083	0.97	0.0	0.0	0.97
SHRUBS	0.0	0.0	0.0		0	0.0	0.0	0.0	0.0
SOIL	0.0	0.0	0.0		0	0.0	0.0	0.0	0.0
TURF GRASS	35.28	0.0	0.0		294	0.26	0.0	0.0	0.26
LIVESTOCK						1.26	1.27	0.0	2.53
TOTAL					1827	2.88	1.27	0.0	4.15



COUNTY: DUVAL

Total Population: 575,884

Total Area: 840 sq.miles

St. Johns River Water Management District Portion

Population: 575,884

Population Public Supply: 436,527

Population Domestic Self-supplied: 139,357

Gallons Per Capita Day: 171

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

Acres Farmed: 15,744

Acres Irrigated: 2,249

Fresh Water Use 1981 (MGD)

	GROUND	SURFACE	TOTAL
Public	74.71	0.0	74.71
Domestic	23.85	0.0	23.85
Industrial	39.20	0.0	39.20
Agricultural Irrigation	4.97	2.34	7.31
Thermoelectric	2.48	0.0	2.48
Heat pump/air condition	0.0	0.0	0.0
TOTALS	145.21	2.34	147.55

DUVAL

TABLE A-9 ACRES FARMED AND IRRIGATED

DUVAL COUNTY

1981

CROBE	TOTAL ACRES	IRRIGATED ACRES	IRRIGATION METHODS USED (ACRES)			
			SPRINKLER	TILE SEEAGE	FLOOD AND SEEAGE	LOW PRESSURE- LOW VOLUME
CABBAGE	0	0	0	0	0	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	0	0	0	0	0	0
POTATOES	0	0	0	0	0	0
SWEET CORN	0	0	0	0	0	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	200	4	4	0	0	0
BLUEBERRIES	20	12	9	0	3	0
CITRUS	0	0	0	0	0	0
GRAFES	10	7	0	0	0	7
PEACHES	0	0	0	0	0	0
PEANUTS	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
WATERMELONS	0	0	0	0	0	0
MISC. FRUITS	0	0	0	0	0	0
FIELD CORN	200	1	1	0	0	0
SORGHUM	0	0	0	0	0	0
SOYBEANS	0	0	0	0	0	0
TOBACCO	0	0	0	0	0	0
MISC. GRAINS	0	0	0	0	0	0
FERNS	0	0	0	0	0	0
FLOWERS & FOLIAGE	15	15	0	0	0	15
IMPROVED PASTURE	12,000	500	460	0	40	0
SHRUBS	57	57	42	0	0	15
SOD (1)	250	240	240	0	0	0
TURF GRASS	2,992	1,413	1,413	0	0	0
 TOTAL	 15,744	 2,249	 2,169	 0	 43	 37

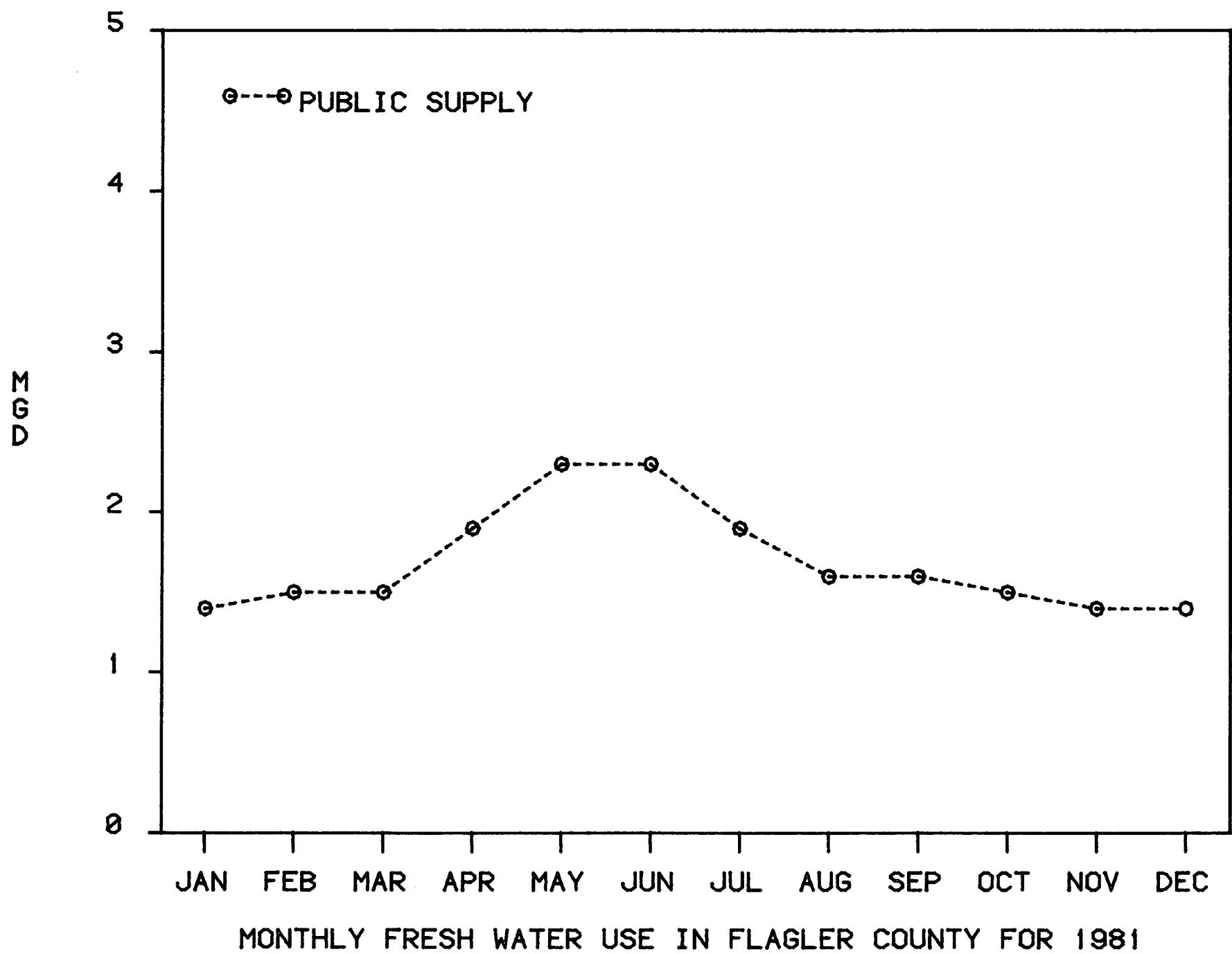
1. 240 ACRES OF SOD IRRIGATED BY CENTER PIVOT SYSTEM AT BREWERY WITH EFFLUENT.

TABLE A-10 IRRIGATION WATER USE

DUVAL COUNTY

1981

CROP	APPLICATION RATES			WATER WITHDRAWN				
	SPRINKLER	SEEPAGE	(ACRE INCHES/YR)	TOTAL AC.FI.	GROUND	(MGD)	RE-USED	TOTAL
CABBAGE	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CARROTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CUCUMBERS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
POTATOES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SWEET CORN	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
WATERCRESS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. VEGETABLES	7.41	0.0	0.0	3	0.0	0.0	0.0	0.0
BLUEBERRIES	19.27	0.0	0.0	14	0.01	0.0	0.0	0.01
CITRUS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
GRAPE	0.0	0.0	21.15	12	0.01	0.0	0.0	0.01
PEACHES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PEANUTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PECANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
WATERMELONS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. FRUIT	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FIELD CORN	15.65	0.0	0.0	1	0.0	0.0	0.0	0.0
SUGARHUM	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
SOYBEANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
TOBACCO	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. GRAINS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FERNS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FLOWERS & FOLIAGE	0.0	0.0	30.0	38	0.03	0.0	0.0	0.03
IMPROVED PASTURE	35.28	56.46	0.0	1540	1.1	0.27	0.0	1.37
SHRUBS	60.0	0.0	48.0	270	0.24	0.0	0.0	0.24
SOD	70.0	0.0	0.0	1400	0.0	0.0	1.25	0.0
TURF GRASS	35.28	0.0	0.0	4154	3.2	0.51	0.0	3.71
LIVESTOCK					0.38	1.56	0.0	1.94
TOTAL				7432	4.97	2.34	1.25	7.31



COUNTY: FLAGLER

Total Population: 12,141

Total Area: 504 sq.miles

St. Johns River Water Management District Portion

Population: 12,141

Population Public Supply: 9,231

Population Domestic Self-supplied: 2,910

Gallons Per Capita Day: 184

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

Acres Farmed: 24,221

Acres Irrigated: 6,233

Fresh Water Use 1981 (MGD)

	GROUND	SURFACE	TOTAL
Public	1.70	0.0	1.70
Domestic	0.54	0.0	0.54
Industrial	0.04	0.0	0.04
Agricultural Irrigation	6.96	0.17	7.13
Thermoelectric	0.0	0.0	0.0
Heat pump/air condition	0.0	0.0	0.0
TOTALS	9.24	0.17	9.41

FLAGLER

TABLE A-II ACRES FARMED AND IRRIGATED

FLAGLER COUNTY

1981

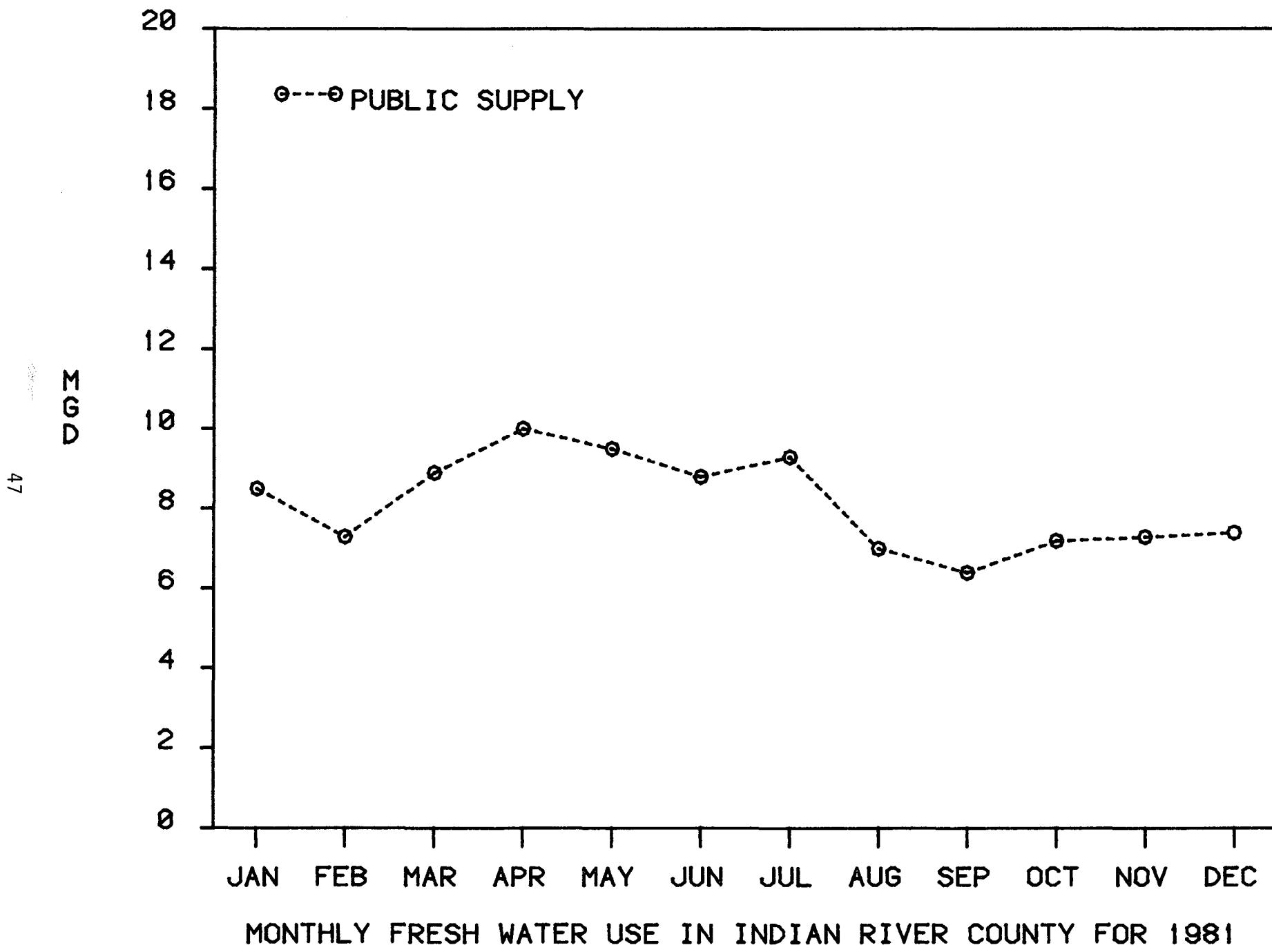
CROE	TOTAL ACRES	IRRIGATED ACRES	IRRIGATION METHODS USED (ACRES)			
			SPRINKLER	TILE SEEPAGE	FLOOD AND SEEAGE	LOW PRESSURE- LOW VOLUME
CABBAGE	2,000	2,000	1,200	0	800	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	0	0	0	0	0	0
POTATOES	1,800	1,800	0	0	1,800	0
SWEET CORN	0	0	0	0	0	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	1,000	1,000	1,000	0	0	0
BLUEBERRIES	0	0	0	0	0	0
CITRUS	150	150	0	0	150	0
GRAFES	0	0	0	0	0	0
PEACHES	0	0	0	0	0	0
PEANUTS	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
WATERMELONS	200	200	200	0	0	0
MISC. FRUITS	0	0	0	0	0	0
FIELD CORN	500	500	0	0	500	0
SORGHUM	1,500	0	0	0	0	0
SOYBEANS	300	300	0	0	300	0
TOBACCO	0	0	0	0	0	0
MISC. GRAINS	0	0	0	0	0	0
FERNS	0	0	0	0	0	0
FLOWERS & FOLIAGE	0	0	0	0	0	0
IMPROVED PASTURE	16,500	100	0	0	100	0
SHRUBS	0	0	0	0	0	0
SOD	0	0	0	0	0	0
TURF GRASS	271	183	183	0	0	0
TOTAL	24,221	6,233	2,583	0	3,650	0

TABLE A-12 IRRIGATION WATER USE

FLAGLER COUNTY

1981

CROP	APPLICATION RATES			WATER WITHDRAWN			
	SPRINKLER	SEEPAGE	LOW PRESSURE/VOL	TOTAL AC.FEET	GROUND	SURFACE	RE-USED
CABBAGE	12.78	20.45	0.0	2641	2.36	0.0	0.0
CARROTS	0.0	0.0	0.0	0	0.0	0.0	0.0
CUCUMBERS	0.0	0.0	0.0	0	0.0	0.0	0.0
POTATOES	0.0	12.66	0.0	1899	1.7	0.0	0.0
SWEET CORN	0.0	0.0	0.0	0	0.0	0.0	0.0
WATERCRESS	0.0	0.0	0.0	0	0.0	0.0	0.0
MISC. VEGETABLES	6.82	0.0	0.0	568	0.51	0.0	0.0
BLUEBERRIES	0.0	0.0	0.0	0	0.0	0.0	0.0
CITRUS	0.0	28.68	0.0	358	0.32	0.0	0.0
GRAPES	0.0	0.0	0.0	0	0.0	0.0	0.0
PEACHES	0.0	0.0	0.0	0	0.0	0.0	0.0
PEANUTS	0.0	0.0	0.0	0	0.0	0.0	0.0
PECANS	0.0	0.0	0.0	0	0.0	0.0	0.0
WATERMELONS	5.16	0.0	0.0	94	0.08	0.0	0.0
MISC. FRUIT	0.0	0.0	0.0	0	0.0	0.0	0.0
FIELD CORN	0.0	20.77	0.0	865	0.77	0.0	0.0
SORGHUM	0.0	0.0	0.0	0	0.0	0.0	0.0
SOYBEANS	0.0	15.86	0.0	397	0.35	0.0	0.0
TOBACCO	0.0	0.0	0.0	0	0.0	0.0	0.0
MISC. GRAINS	0.0	0.0	0.0	0	0.0	0.0	0.0
FERNS	0.0	0.0	0.0	0	0.0	0.0	0.0
FLOWERS & FOLIAGE	0.0	0.0	0.0	0	0.0	0.0	0.0
IMPROVED PASTURE	0.0	54.15	0.0	451	0.4	0.0	0.0
SHRUBS	0.0	0.0	0.0	0	0.0	0.0	0.0
SOD	0.0	0.0	0.0	0	0.0	0.0	0.0
TURF GRASS	38.34	0.0	0.0	585	0.4	0.12	0.0
LIVESTOCK					0.07	0.05	0.0
TOTAL				7858	6.96	0.17	0.0
							7.13



COUNTY: INDIAN RIVER

Total Population: 63,100

Total Area: 549 sq.miles

St. Johns River Water Management District Portion

Population: 63,100

Population Public Supply: 32,912

Population Domestic Self-supplied: 30,188

Gallons Per Capita Day: 245

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

Acres Farmed: 124,205

Acres Irrigated: 94,688

Fresh Water Use 1981 (MGD)

	GROUND	SURFACE	TOTAL
Public	8.07	0.0	8.07
Domestic	7.46	0.0	7.46
Industrial	0.24	0.0	0.24
Agricultural Irrigation	105.67	202.92	308.59
Thermoelectric	0.15	0.0	0.15
Heat pump/air condition	0.0	0.0	0.0
TOTALS	121.59	202.92	324.51

INDIAN RIVER

TABLE A-13 ACRES FARMED AND IRRIGATED

INDIAN RIVER COUNTY

1981

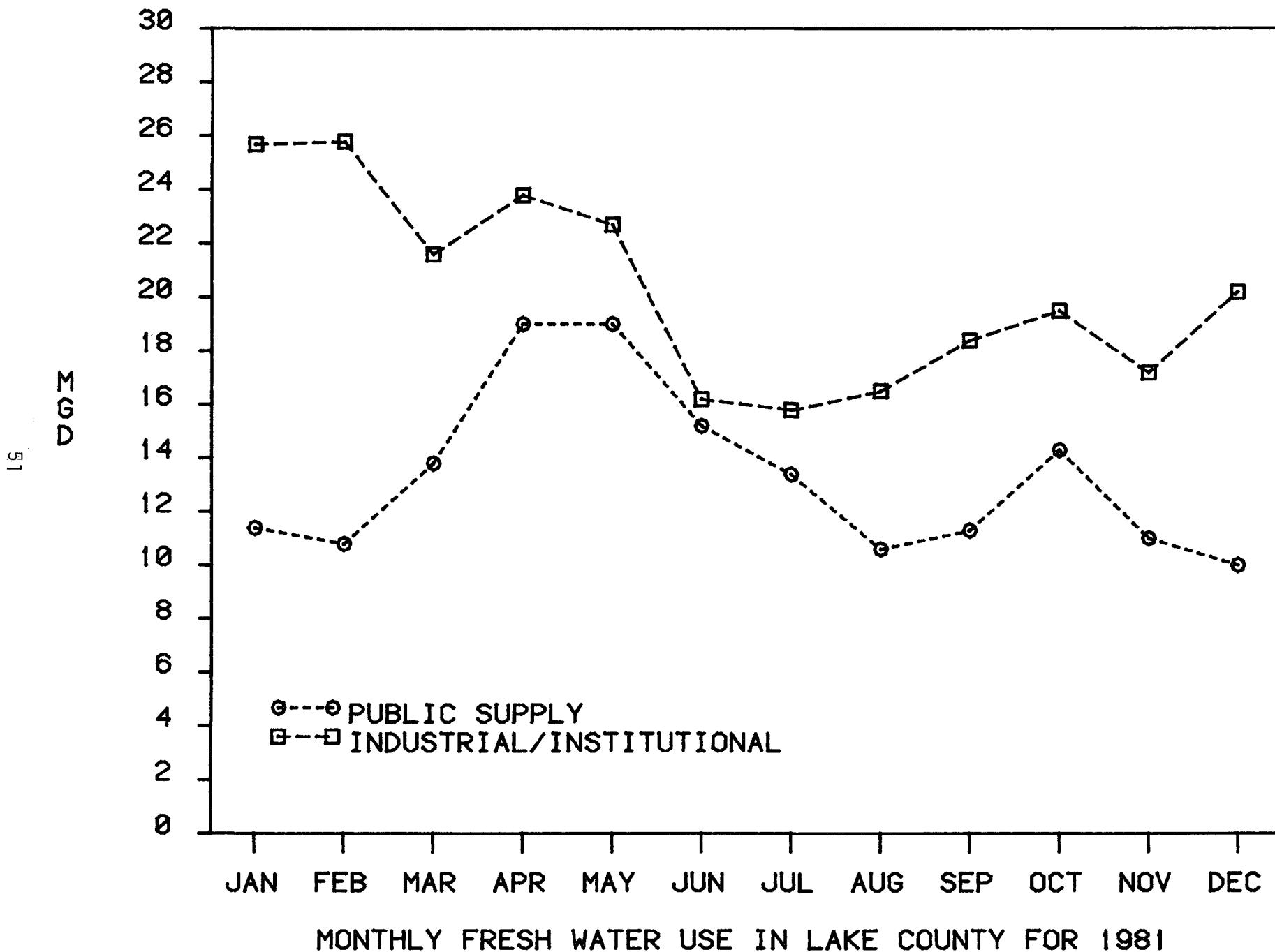
CROE	TOTAL ACRES	IRRIGATED ACRES	IRRIGATION METHODS USED (ACRES)			
			SEBINKLER	TILE SEEPAGE	FLOOD AND SEEPAGE	LOW PRESSURE- LOW VOLUME
CABBAGE	0	0	0	0	0	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	0	0	0	0	0	0
POTATOES	0	0	0	0	0	0
SWEET CORN	0	0	0	0	0	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	0	0	0	0	0	0
BLUEBERRIES	0	0	0	0	0	0
CITRUS	58,262	53,841	1,406	0	43,935	8,500
GRAPES	0	0	0	0	0	0
PEACHES	0	0	0	0	0	0
PEANUTS	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
WATERMELONS	0	0	0	0	0	0
MISC. FRUITS	0	0	0	0	0	0
FIELD CORN	2,500	2,500	0	1,000	1,500	0
RICE	0	0	0	0	0	0
SORGHUM	0	0	0	0	0	0
SOYBEANS	0	0	0	0	0	0
TOBACCO	0	0	0	0	0	0
MISC. GRAINS	0	0	0	0	0	0
FERNS	0	0	0	0	0	0
FLOWERS & FOLIAGE	0	0	0	0	0	0
IMPROVED PASTURE	62,208	37,475	0	0	37,475	0
SHRUBS	0	0	0	0	0	0
SOD	0	0	0	0	0	0
TURF GRASS	1,235	872	872	0	0	0
TOTAL	124,205	94,688	2,278	1,000	82,910	8,500

TABLE A-14 IRRIGATION WATER USE

INDIAN RIVER COUNTY

1981

CROP	APPLICATION RATES			WATER WITHDRAWN					
	SPRINKLER	SEEPAGE	LOW PRESSURE/VOL	TOTAL AC ET	GROUND	(MGD)	SURFACE	RE-USED	TOTAL
CABBAGE	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
CARROTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
CUCUMBERS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
POTATOES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
SWEET CORN	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
WATERCRESS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
MISC. VEGETABLES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
BLUEBERRIES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
CITRUS	21.45	34.33	19.07	141712	25.29	101.19	0.0	0.0	126.48
GRAPES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
PEACHES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
PEANUTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
PECANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
WATERMELONS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
MISC. FRUIT	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
FIELD CORN	0.0	20.21	0.0	4286	3.83	0.0	0.0	0.0	3.83
RICE	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
SORGHUM	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
SOYBEANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
TOBACCO	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
MISC. GRAINS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
FERNS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
FLOWERS & FOLIAGE	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
IMPROVED PASTURE	0.0	63.17	0.0	197275	76.0	100.0	0.0	0.0	176.0
SHRUBS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
SOD	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
TURF GRASS	39.48	0.0	0.0	2260	0.48	1.44	0.1	1.92	0.36
LIVESTOCK					0.07	0.29	0.0	0.0	
TOTAL				346522	105.67	202.92	0.1	308.59	



COUNTY: LAKE

Total Population: 108,063

Total Area: 1,163 sq.miles

St. Johns River Water Management District Portion

Population: 106,982

Population Public Supply: 62,982

Population Domestic Self-supplied: 44,054

Gallons Per Capita Day: 212

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

Acres Farmed: 183,470

Acres Irrigated: 69,813

Fresh Water Use 1981 (MGD)

	GROUND	SURFACE	TOTAL
Public	13.31	0.0	13.31
Domestic	9.59	0.0	9.59
Industrial	16.07	4.2	20.27
Agricultural Irrigation	99.33	21.68	121.01
Thermoelectric	0.0	0.0	0.0
Heat pump/air condition	0.0	0.0	0.0
 TOTALS	138.30	25.82	164.28

LAKE

TABLE A-15 ACRES FARMED AND IRRIGATED

LAKE COUNTY

1981

CROP	TOTAL ACRES	IRRIGATED ACRES	IRRIGATION METHODS USED (ACRES)		
			SPRINKLER	TILE SEEPAGE	FLOOD AND SEEPAGE
CABBAGE	125	125	50	0	75
CARROTS	2,940	2,940	0	0	2,940
CUCUMBERS	200	200	130	0	70
POTATOES	100	100	0	0	100
SWEET CORN	3,000	3,000	0	0	3,000
WATERCRESS	0	0	0	0	0
MISC. VEGETABLES	1,764	1,764	100	0	1,664
BLUEBERRIES	5	5	0	0	2
CITRUS	122,777	49,000	42,000	0	430
GRAPES	9	9	7	0	0
PEACHES	0	0	0	0	0
PEANUTS	0	0	0	0	0
PECANS	40	40	0	0	0
WATERMELONS	700	700	700	0	0
MISC. FRUITS	0	0	0	0	0
FIELD CORN	1,500	1,500	1,050	0	450
SORGHUM	1,400	1,300	700	0	600
SOYBEANS	500	500	0	0	500
TOBACCO	0	0	0	0	0
MISC. GRAINS	0	0	0	0	0
WHEAT	100	100	0	0	100
FERNS	250	250	250	0	0
FLOWERS & FOLIAGE	100	100	0	0	0
IMPROVED PASTURE	47,000	7,500	2,000	0	5,500
SHRUBS	150	150	150	0	0
SOD	0	0	0	0	0
TURF GRASS	950	530	530	0	0
TOTAL	183,470	69,813	47,667	0	15,431
					6,715

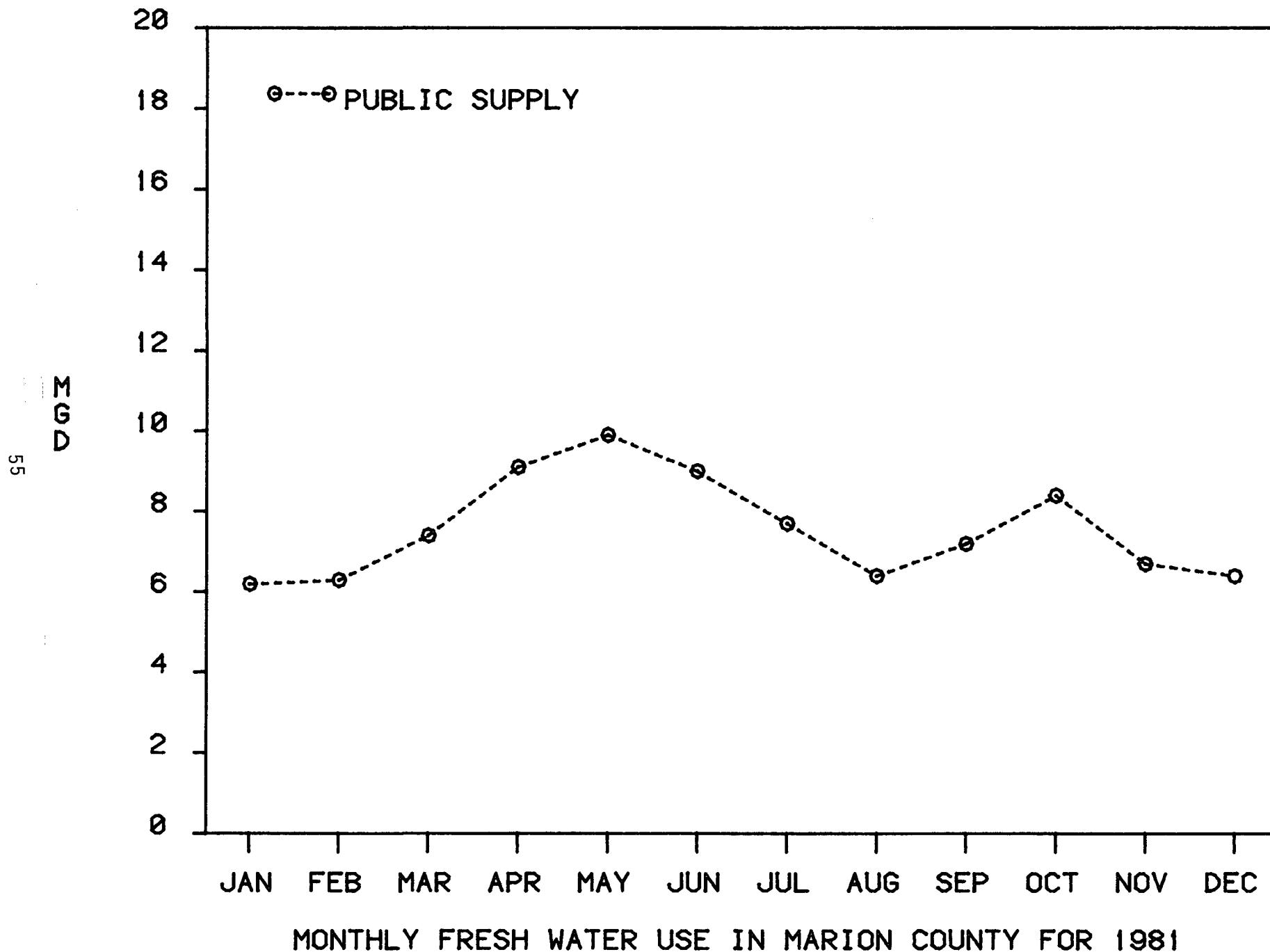
1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.

TABLE A-16 IRRIGATION WATER USE

LAKE COUNTY

1981

CROPS	APPLICATION RATES			WATER WITHDRAWN				TOTAL
	SPRINKLER	SEEAGE	LOW PRESSURE VOL	TOTAL AC FT	GROUND	SURFACE	RE-USED	
CABBAGE	0.0	19.45	0.0	202	0.18	0.0	0.0	0.18
CARROTS	0.0	16.20	0.0	3969	3.54	0.0	0.0	3.54
CUCUMBERS	0.0	11.84	0.0	197	0.18	0.0	0.0	0.18
POTATOES	0.0	12.66	0.0	105	0.09	0.0	0.0	0.09
SWEET CORN	0.0	15.12	0.0	3780	2.0	1.37	0.0	3.37
WATERCRESS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. VEGETABLES	9.62	12.15	0.0	1765	1.58	0.0	0.0	1.58
BLUEBERRIES	0.0	25.0	20.34	9	0.01	0.0	0.0	0.01
CITRUS	21.41	31.14	19.03	86469	60.19	17.0	0.0	77.19
GRAPES	24.16	0.0	20.34	17	0.01	0.0	0.0	0.01
PEACHES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PEANUTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PECANS	0.0	0.0	34.26	114	0.1	0.0	0.0	0.1
WATERMELONS	3.12	0.0	0.0	182	0.16	0.0	0.0	0.16
MISC. FRUIT	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FIELD CORN	9.68	12.1	0.0	1301	0.76	0.41	0.0	1.17
SORGHUM	9.68	12.5	0.0	1180	1.06	0.0	0.0	1.06
SOYBEANS	0.0	14.35	0.0	598	0.53	0.0	0.0	0.53
TOBACCO	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. GRAINS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
WHEAT	5.74	0.0	0.0	48	0.04	0.0	0.0	0.04
FERNS	50.0	0.0	0.0	1041	0.93	0.0	0.0	0.93
FLOWERS & FOLIAGE	0.0	0.0	39.26	327	0.29	0.0	0.0	0.29
IMPROVED PASTURE-CLOVER	0.0	50.0	0.0	31250	26.0	2.0	0.0	28.0
SHRUBS	28.14	0.0	0.0	352	0.31	0.0	0.0	0.31
SOIL	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
TURF GRASS	39.17	0.0	0.0	1730	1.0	0.54	0.0	1.54
LIVESTOCK					0.37	0.36	0.0	0.73
TOTAL				134646	99.33	21.68	0.0	121.01



COUNTY: MARION

Total Population: 129,320

Total Area: 1,652 sq. miles

St. Johns River Water Management Portion

Population: 106,030

Population Public Supply: 48,619

Population Domestic Self-supplied: 57,411

Gallons Per Capita Day: 155

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

Acres Farmed: 84,364

Acres Irrigated: 12,280

Fresh Water Use 1981 (MGD)

	GROUND	SURFACE	TOTAL
Public	7.55	0.0	7.55
Domestic	8.90	0.0	8.90
Industrial	0.91	0.0	0.91
Agricultural Irrigation	22.33	2.09	24.42
Thermoelectric	0.0	0.0	0.0
Heat pump/air condition	0.0	0.0	0.0
 TOTALS	39.69	2.09	41.78

MARION

TABLE A-17 ACRES FARMED AND IRRIGATED

MARION COUNTY

1981

CROP	TOTAL ACRES	IRRIGATED ACRES	IRRIGATION METHODS USED (ACRES)			
			SPRINKLER	TILE SEEPAGE	FLOOD AND SEEPAGE	LOW PRESSURE- LOW VOLUME
CABBAGE	0	0	0	0	0	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	0	0	0	0	0	0
POTATOES	0	0	0	0	0	0
SWEET CORN	0	0	0	0	0	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	1,600	1,220	1,220	0	0	0
BLUEBERRIES	50	50	40	0	0	10
CITRUS	11,272	6,600	6,000	0	0	600
GRAPES	50	50	50	0	0	0
PEACHES	1,000	800	800	0	0	0
PEANUTS	2,000	488	488	0	0	0
PECANS	0	0	0	0	0	0
WATERMELONS	1,150	350	350	0	0	0
MISC. FRUITS	0	0	0	0	0	0
FIELD CORN	3,000	1,320	224	0	1,096	0
SORGHUM	150	0	0	0	0	0
SOYBEANS	3,000	750	750	0	0	0
TOBACCO	0	0	0	0	0	0
MISC. GRAINS	0	0	0	0	0	0
FERNS	20	15	15	0	0	0
FLOWERS & FOLIAGE	10	10	10	0	0	0
IMPROVED PASTURE	60,500	275	0	0	275	0
SHRUBS	50	50	50	0	0	0
SOD	50	50	50	0	0	0
TURF GRASS	612	252	252	0	0	0
 TOTAL	 84,364	 12,280	 10,299	 0	 1,371	 610

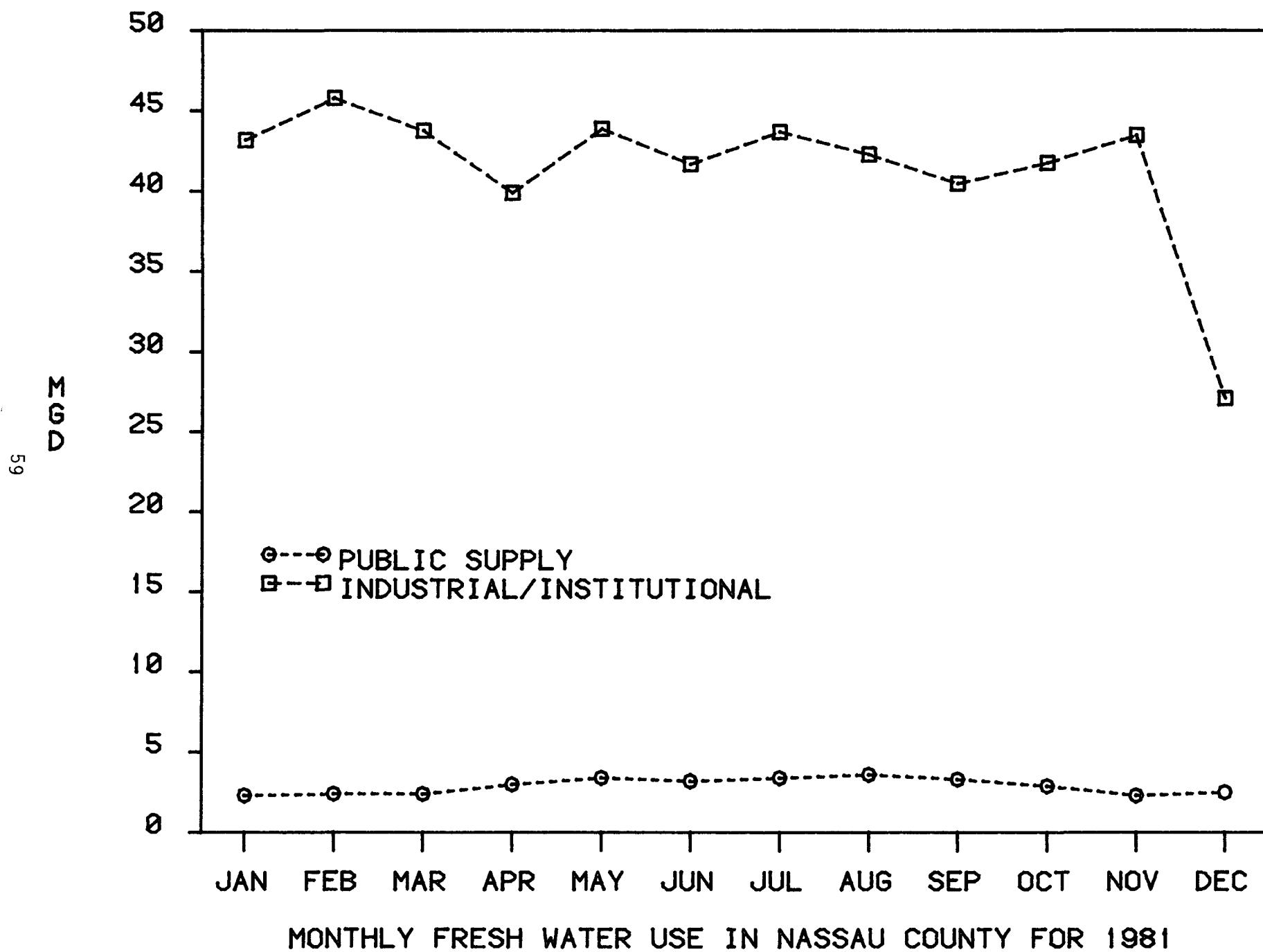
1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.

TABLE A-18 IRRIGATION WATER USE

MARION COUNTY

1981

CROP	IRRIGATION RATES			WATER WITHDRAWN			
	SPRINKLER	SEEAGE	(ACRE INCHES/YR)	INITIAL	GROUND	(MGD)	RE-USED
AC.FEI		LOW PRESSURE/VOL		SURFACE			
CABBAGE	0.0	0.0	0.0	0	0.0	0.0	0.0
CARROTS	0.0	0.0	0.0	0	0.0	0.0	0.0
CUCUMBERS	0.0	0.0	0.0	0	0.0	0.0	0.0
POTATOES	0.0	0.0	0.0	0	0.0	0.0	0.0
SWEET CORN	0.0	0.0	0.0	0	0.0	0.0	0.0
WATERCRESS	0.0	0.0	0.0	0	0.0	0.0	0.0
MISC. VEGETABLES	7.61	0.0	0.0	774	0.69	0.0	0.69
BLUERBERRIES	24.16	0.0	20.34	92	0.08	0.0	0.08
CITRUS	20.18	0.0	17.94	15472	12.0	1.81	0.0
GRAPEs	24.16	0.0	0.0	101	0.9	0.0	0.9
PEACHES	38.54	0.0	0.0	2569	2.29	0.0	2.29
PEANUTS	9.53	0.0	0.0	388	0.35	0.0	0.35
PECANS	0.0	0.0	0.0	0	0.0	0.0	0.0
WATERMELONS	6.93	0.0	0.0	202	0.18	0.0	0.18
MISC. FRUIT	0.0	0.0	0.0	0	0.0	0.0	0.0
FIELD CORN	13.32	21.31	0.0	2195	1.86	0.1	0.0
SORGHUM	0.0	0.0	0.0	0	0.0	0.0	0.0
SOYBEANS	11.04	0.0	0.0	690	0.6	0.02	0.0
TOBACCO	0.0	0.0	0.0	0	0.0	0.0	0.0
MISC. GRAINS	0.0	0.0	0.0	0	0.0	0.0	0.0
FERNS	65.0	0.0	0.0	81	0.07	0.0	0.07
FLOWERS & FOLIAGE	70.0	0.0	0.0	58	0.05	0.0	0.05
IMPROVED PASTURE	0.0	58.04	0.0	1330	1.1	0.09	0.0
SHRUBS	70.00	0.0	0.0	291	0.26	0.0	0.26
SOD	36.28	0.0	0.0	151	0.14	0.0	0.14
TURF GRASS	36.28	0.0	0.0	762	0.66	0.02	0.0
LIVESTOCK					1.1	0.05	0.0
TOTAL				25156	22.33	2.09	0.0
							24.42



COUNTY: NASSAU

Total Population: 33,718

Total Area: 671 sq.miles

St. Johns River Water Management Portion

Population: 33,718

Population Public Supply: 12,087

Population Domestic Self-supplied: 21,631

Gallons Per Capita Day: 240

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

Acres Farmed: 7,181

Acres Irrigated: 507

Fresh Water Use 1981 (MGD)

	GROUND	SURFACE	TOTAL
Public	2.90	0.0	2.90
Domestic	5.19	0.0	5.19
Industrial	41.41	0.0	41.41
Agricultural Irrigation	1.59	0.86	2.45
Thermoelectric	0.0	0.0	0.0
Heat pump/air condition	0.0	0.0	0.0
TOTALS	51.09	0.86	51.95

NASSAU

TABLE A-19 ACRES FARMED AND IRRIGATED

NASSAU COUNTY

1981

CROE	TOTAL ACRES	IRRIGATED ACRES	IRRIGATION METHODS USED (ACRES)			
			SPRINKLER	TILE SEEPAGE	FLOOD AND SEEPAGE	LOW PRESSURE- LOW VOLUME
CARROTS	0	0	0	0	0	0
CUCUMBERS	0	0	0	0	0	0
POTATOES	0	0	0	0	0	0
SWEET CORN	0	0	0	0	0	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	100	0	0	0	0	0
BLUEBERRIES	215	215	0	0	0	215
CITRUS	0	0	0	0	0	0
GRAPEs	0	0	0	0	0	0
PEACHES	0	0	0	0	0	0
PEANUTS	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
WATERMELONS	5	0	0	0	0	0
MISC. FRUITS	0	0	0	0	0	0
FIELD CORN	1,500	50	50	0	0	0
SORGHUM	0	0	0	0	0	0
SOYBEANS	0	0	0	0	0	0
TOBACCO	37	0	0	0	0	0
MISC. GRAINS	0	0	0	0	0	0
FERNS	0	0	0	0	0	0
FLOWERS & FOLIAGE	20	20	20	0	0	0
IMPROVED PASTURE	4,810	0	0	0	0	0
SHRUBS	3	0	0	0	0	0
SOD	0	0	0	0	0	0
TURF GRASS	491	222	222	0	0	0
 TOTAL	 7,181	 507	 292	 0	 0	 215

TABLE A-20 IRRIGATION WATER USE

NASSAU COUNTY

1981

CROP	APPLICATION RATES			WATER WITHDRAWN			
	SPRINKLER	SEEPAGE	(ACRE INCHES/YR)	TOTAL AC. ETI	GROUND	(MGD)	RE-USED
CABBAGE	0.0	0.0	0.0	0	0.0	0.0	0.0
CARROTS	0.0	0.0	0.0	0	0.0	0.0	0.0
CUCUMBERS	0.0	0.0	0.0	0	0.0	0.0	0.0
POTATOES	0.0	0.0	0.0	0	0.0	0.0	0.0
SWEET CORN	0.0	0.0	0.0	0	0.0	0.0	0.0
WATERCRESS	0.0	0.0	0.0	0	0.0	0.0	0.0
MISC. VEGETABLES	0.0	0.0	0.0	0	0.0	0.0	0.0
BLUEBERRIES	0.0	0.0	22.33	400	0.36	0.0	0.36
CITRUS	0.0	0.0	0.0	0	0.0	0.0	0.0
GRAPES	0.0	0.0	0.0	0	0.0	0.0	0.0
PEACHES	0.0	0.0	0.0	0	0.0	0.0	0.0
PEANUTS	0.0	0.0	0.0	0	0.0	0.0	0.0
PECANS	0.0	0.0	0.0	0	0.0	0.0	0.0
WATERMELONS	0.0	0.0	0.0	0	0.0	0.0	0.0
MISC. FRUIT	0.0	0.0	0.0	0	0.0	0.0	0.0
FIELD CORN	18.0	0.0	0.0	75	0.06	0.0	0.06
SORGHUM	0.0	0.0	0.0	0	0.0	0.0	0.0
SOYBEANS	0.0	0.0	0.0	0	0.0	0.0	0.0
TOBACCO	0.0	0.0	0.0	0	0.0	0.0	0.0
MISC. GRAINS	0.0	0.0	0.0	0	0.0	0.0	0.0
FERNS	0.0	0.0	0.0	0	0.0	0.0	0.0
FLOWERS & FOLIAGE	70.0	0.0	0.0	117	0.1	0.0	0.1
IMPROVED PASTURE	0.0	0.0	0.0	0	0.0	0.0	0.0
SHRUBS	0.0	0.0	0.0	0	0.0	0.0	0.0
SOD	0.0	0.0	0.0	0	0.0	0.0	0.0
TURF GRASS	31.71	0.0	0.0	587	0.24	0.03	0.25
LIVESTOCK					0.83	0.83	0.0
TOTAL				1179	1.59	0.86	0.25
							2.45

**NOTE: THERE WAS NO PUBLIC OR INDUSTRIAL PUMPAGE IN OKEECHOBEE COUNTY
WITHIN THE ST.JOHNS RIVER WATER MANAGEMENT DISTRICT FOR 1981.**

COUNTY: OKEECHOBEE

Total Population: 21,139

Total Area: 780 sq.miles

St. Johns River Water Management Portion

Population: 337

Population Public Supply: -0-

Population Domestic Self-supplied: 337

Gallons Per Capita Day: 167 (district average)

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

Acres Farmed: 21,400

Acres Irrigated: 3,982

Fresh Water Use 1981 (MGD)

	GROUND	SURFACE	TOTAL
Public	0.0	0.0	0.0
Domestic	0.06	0.0	0.06
Industrial	0.0	0.0	0.0
Agricultural Irrigation	11.18	1.88	13.06
Thermoelectric	0.0	0.0	0.0
Heat pump/air condition	0.0	0.0	0.0
TOTALS	11.24	1.88	13.12

OKEECHOBEE
WATER DISTRICT

TABLE A-2I ACRES FARMED AND IRRIGATED

OKEECHOBEE COUNTY (1)

1981

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

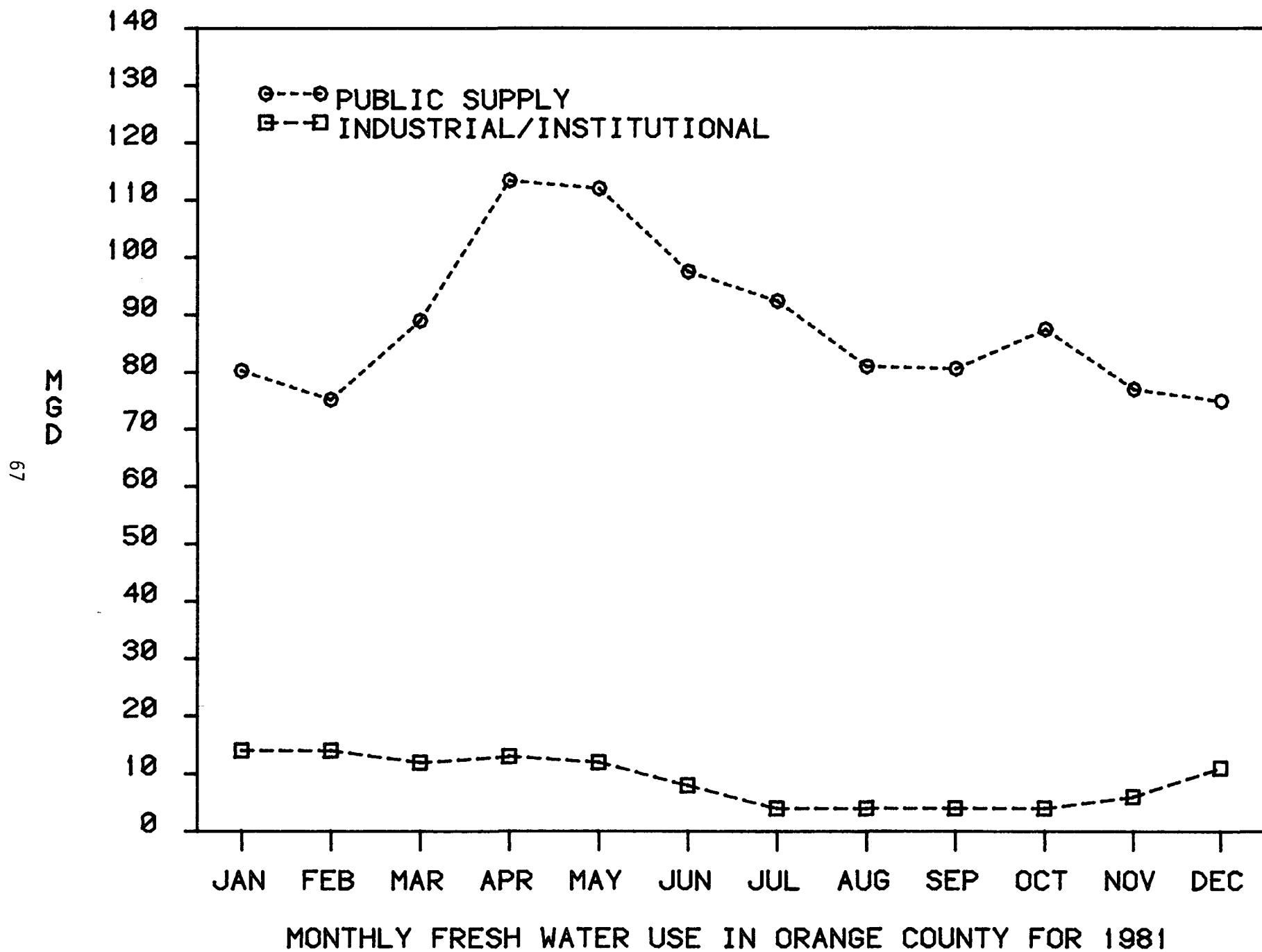
1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.

TABLE A-22 IRRIGATION WATER USE

OKEECHOREE COUNTY

1981

CROE	APPLICATION RATES			WATER WITHDRAWN					
	SERINKLER	(ACRE INCHES/YR)	SEEPAGE	LOW PRESSURE/VOL	TOTAL AC. ET.	GROUND SURFACE	(MGD)	RE-USED	TOTAL
CABBAGE	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
CARROTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
CUCUMBERS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
POTATOES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
SWEET CORN	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
WATERCRESS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
MISC. VEGETABLES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
BLUEBERRIES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
CITRUS	0.0	22.23	0.0	2223	1.6	0.38	0.0	0.0	1.98
GRAPEs	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
PEACHES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
PEANUTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
PECANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
WATERMELONS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
MISC. FRUIT	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
FIELD CORN	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
SORGHUM	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
SOYBEANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
TOBACCO	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
MISC. GRAINS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
FERNS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
FLOWERS & FOLIAGE	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
IMPROVED PASTURE	0.0	49.52	0.0	11480	9.0	1.25	0.0	0.0	10.25
SHRUBS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
SOD	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
TURF GRASS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
LIVESTOCK					0.58	0.25	0.0	0.0	0.83
TOTAL				13703	11.18	1.88	0.0	0.0	13.06



COUNTY: ORANGE

Total Population: 481,731

Total Area: 1,003 sq.miles

St. Johns River Water Management Portion

Population: 395,019

Population Public Supply: 378,218

Population Domestic Self-supplied: 16,801

Gallons Per Capita Day: 189

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

Acres Farmed: 62,180

Acres Irrigated: 33,382

Fresh Water Use 1981 (MGD)

	GROUND	SURFACE	TOTAL
Public	88.45	0.0	88.45
Domestic	3.16	0.0	3.16
Industrial	5.85	2.76	8.61
Agricultural Irrigation	53.41	1.04	54.45
Thermoelectric	0.0	30.94	30.94
Heat pump/air condition	0.0	0.0	0.0
 TOTALS	150.87	34.74	185.61

ORANGE

TABLE A-23 ACRES FARMED AND IRRIGATED

ORANGE COUNTY (1)

1981

CROP	TOTAL ACRES	IRRIGATED ACRES	IRRIGATION METHODS USED (ACRES)			
			SPRINKLER	TILE SEEPAGE	FLOOD AND SEEPAGE	LOW PRESSURE- LOW VOLUME
CARAGE	900	900	125	0	755	0
CARROTS	6,000	6,000	0	0	6,000	0
CUCUMBERS	150	150	0	0	150	0
POTATOES	0	0	0	0	0	0
SWEET CORN	5,000	5,000	0	0	5,000	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	2,425	2,425	388	0	2,037	0
BLUEBERRIES	0	0	0	0	0	0
CITRUS	25,580	14,400	12,950	0	0	1,450
GRAPEs	0	0	0	0	0	0
PEACHES	0	0	0	0	0	0
PEANUTS	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
WATERMELONS	150	0	0	0	0	0
MISC. FRUITS	0	0	0	0	0	0
FIELD CORN	200	200	200	0	0	0
SORGHUM	0	0	0	0	0	0
SOYBEANS	200	200	200	0	0	0
TOBACCO	0	0	0	0	0	0
MISC. GRAINS	0	0	0	0	0	0
FERNS	0	0	0	0	0	0
FLOWERS & FOLIAGE	1,500	1,500	750	0	0	750
IMPROVED PASTURE	18,562	1,688	355	0	1,333	0
SHRUBS	0	0	0	0	0	0
SOD	100	100	0	0	100	0
TURF GRASS	1,413	819	819	0	0	0
 TOTAL	 62,180	 33,382	 15,787	 0	 15,395	 2,200

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

TABLE A-24 IRRIGATION WATER USE

ORANGE COUNTY

1981

CROPS	APPLICATION RATES			WATER WITHDRAWN			
	SPRINKLER	SEWERAGE	LOW PRESSURE/VOL	TOTAL AC.	GROUND	(MGD)	RE-USED
CABBAGE	14.41	21.0	0.0	1506	1.34	0.0	0.0
CARROTS	0.0	19.27	0.0	9635	8.6	0.0	0.0
CUCUMBERS	0.0	19.27	0.0	241	0.22	0.0	0.0
POTATOES	0.0	0.0	0.0	0	0.0	0.0	0.0
SWEET CORN	0.0	18.92	0.0	7883	7.04	0.0	0.0
WATERCRESS	0.0	0.0	0.0	0	0.0	0.0	0.0
MISC. VEGETABLES	16.06	19.86	0.0	3890	3.47	0.0	0.0
BLUERBERRIES	0.0	0.0	0.0	0	0.0	0.0	0.0
CITRUS	20.71	0.0	18.41	24574	21.88	0.0	0.0
GRAPES	0.0	0.0	0.0	0	0.0	0.0	0.0
PEACHES	0.0	0.0	0.0	0	0.0	0.0	0.0
PEANUTS	0.0	0.0	0.0	0	0.0	0.0	0.0
PECANS	0.0	0.0	0.0	0	0.0	0.0	0.0
WATERMELONS	0.0	0.0	0.0	0	0.0	0.0	0.0
MISC. FRUIT	0.0	0.0	0.0	0	0.0	0.0	0.0
FIELD CORN	18.92	0.0	0.0	315	0.28	0.0	0.0
SORGHUM	0.0	0.0	0.0	0	0.0	0.0	0.0
SOYBEANS	14.98	0.0	0.0	250	0.22	0.0	0.0
TOBACCO	0.0	0.0	0.0	0	0.0	0.0	0.0
MISC. GRAINS	0.0	0.0	0.0	0	0.0	0.0	0.0
FERNS	0.0	0.0	0.0	0	0.0	0.0	0.0
FLOWERS & FOLIAGE	100.0	0.0	100.0	1250	0.9	0.22	0.0
IMPROVED PASTURE	38.41	61.46	0.0	7963	6.9	0.21	0.0
SHRUBS	0.0	0.0	0.0	0	0.0	0.0	0.0
SOD	0.0	38.41	0.0	320	0.29	0.0	0.0
TURF GRASS	38.41	0.0	0.0	6790	2.0	0.34	0.0
LIVESTOCK					0.27	0.27	0.0
TOTAL				64617	53.41	1.04	0.0
							54.45

**NOTE: THERE WAS NO PUBLIC OR INDUSTRIAL PUMPAGE IN OSCEOLA COUNTY
WITHIN THE ST.JOHNS RIVER WATER MANAGEMENT DISTRICT FOR 1981.**

COUNTY: OSCEOLA

Total Population: 55,332

Total Area: 1,467 sq.miles

St. Johns River Water Management Portion

Population: 304

Population Public Supply: -0-

Population Domestic Self-supplied: 304

Gallons Per Capita Day: 167 (district average)

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

Acres Farmed: 128,251

Acres Irrigated: 3,351

Fresh Water Use 1981 (MGD)

	GROUND	SURFACE	TOTAL
Public	0.0	0.0	0.0
Domestic	0.05	0.0	0.05
Industrial	0.0	0.0	0.0
Agricultural Irrigation	9.13	0.80	9.93
Thermoelectric	0.0	0.0	0.0
Heat pump/air condition	0.0	0.0	0.0
TOTALS	9.18	0.80	9.98

OSCEOLA

TABLE A-25 ACRES FARMED AND IRRIGATED
OSCEOLA COUNTY (1)

1981

CROE	TOTAL ACRES	IRRIGATED ACRES	IRRIGATION METHODS USED (ACRES)			
			TILE	FLOOD AND SEEPAGE	LOW PRESSURE- SEEPAGE	LOW VOLUME
CARROG	0	0	0	0	0	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	0	0	0	0	0	0
POTATOES	0	0	0	0	0	0
SWEET CORN	0	0	0	0	0	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	201	201	0	0	201	0
BLUEBERRIES	0	0	0	0	0	0
CITRUS	2,250	2,000	0	0	2,000	0
GRAPES	0	0	0	0	0	0
PEACHES	0	0	0	0	0	0
PEANUTS	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
WATERMELONS	0	0	0	0	0	0
MISC. FRUITS	0	0	0	0	0	0
FIELD CORN	0	0	0	0	0	0
SORGHUM	0	0	0	0	0	0
SOYBEANS	0	0	0	0	0	0
TOBACCO	0	0	0	0	0	0
MISC. GRAINS	0	0	0	0	0	0
FERNS	0	0	0	0	0	0
FLOWERS & FOLIAGE	0	0	0	0	0	0
IMPROVED PASTURE	125,800	1,150	0	0	1,150	0
SHRUBS	0	0	0	0	0	0
SOD	0	0	0	0	0	0
TURF GRASS	0	0	0	0	0	0
 TOTAL	 128,251	 3,351	 0	 0	 3,351	 0

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

TABLE A-26 IRRIGATION WATER USE

OSCEOLA COUNTY

1981

CROP	APPLICATION RATES			WATER WITHDRAWN			
	SPRINKLER	(ACRE INCHES/YR)		TOTAL AC. ET	(MGD)		
		SEEPAGE	LOW PRESSURE/VOL		GROUND	SURFACE	RE-USED
CARROTS	0.0	0.0	0.0	0	0.0	0.0	0.0
CUCUMBERS	0.0	0.0	0.0	0	0.0	0.0	0.0
POTATOES	0.0	0.0	0.0	0	0.0	0.0	0.0
SWEET CORN	0.0	0.0	0.0	0	0.0	0.0	0.0
WATERCRESS	0.0	0.0	0.0	0	0.0	0.0	0.0
MISC. VEGETABLES	0.0	7.12	0.0	119	0.09	0.02	0.0
BLUEBERRIES	0.0	0.0	0.0	0	0.0	0.0	0.0
CITRUS	0.0	30.12	0.0	5648	5.04	0.0	5.04
GRAPES	0.0	0.0	0.0	0	0.0	0.0	0.0
PEACHES	0.0	0.0	0.0	0	0.0	0.0	0.0
PEANUTS	0.0	0.0	0.0	0	0.0	0.0	0.0
PECANS	0.0	0.0	0.0	0	0.0	0.0	0.0
WATERMELONS	0.0	0.0	0.0	0	0.0	0.0	0.0
MISC. FRUIT	0.0	0.0	0.0	0	0.0	0.0	0.0
FIELD CORN	0.0	0.0	0.0	0	0.0	0.0	0.0
SORGHUM	0.0	0.0	0.0	0	0.0	0.0	0.0
SOYBEANS	0.0	0.0	0.0	0	0.0	0.0	0.0
TOBACCO	0.0	0.0	0.0	0	0.0	0.0	0.0
MISC. GRAINS	0.0	0.0	0.0	0	0.0	0.0	0.0
FERNS	0.0	0.0	0.0	0	0.0	0.0	0.0
FLOWERS & FOLIAGE	0.0	0.0	0.0	0	0.0	0.0	0.0
IMPROVED PASTURE	0.0	55.87	0.0	5354	4.0	0.78	0.0
SHRUBS	0.0	0.0	0.0	0	0.0	0.0	0.0
SOIL	0.0	0.0	0.0	0	0.0	0.0	0.0
TURF GRASS	0.0	0.0	0.0	0	0.0	0.0	0.0
LIVESTOCK					0.0	0.0	0.0
TOTAL				11121	9.13	0.8	0.0
							9.93

**NOTE: THERE WAS NO PUBLIC PUMPAGE IN POLK COUNTY WITHIN
THE ST. JOHNS RIVER WATER MANAGEMNET DISTRICT FOR 1981,
AND THE INDUSTRIAL PUMPAGE WAS TO SMALL TO DEPICT.**

COUNTY: POLK

Total Population: 330,830

Total Area: 2,048 sq.miles

St. Johns River Water Management Portion

Population: 4,736

Population Public Supply: -0-

Population Domestic Self-supplied: 4,736

Gallons Per Capita Day: 167 (district average)

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

Acres Farmed: 19,955

Acres Irrigated: 10,555

Fresh Water Use 1981 (MGD)

	GROUND	SURFACE	TOTAL
Public	0.0	0.0	0.0
Domestic	0.79	0.0	0.79
Industrial	0.01	0.0	0.01
Agricultural Irrigation	15.07	0.04	15.11
Thermoelectric	0.0	0.0	0.0
Heat pump/air condition	0.0	0.0	0.0
 TOTALS	15.87	0.04	15.91

POLK

TABLE A-27 ACRES FARMED AND IRRIGATED

POLK COUNTY (1)

1981

CROP	TOTAL ACRES	IRRIGATED ACRES	IRRIGATION METHODS USED (ACRES)			
			SPRINKLER	TILE SEEPAGE	FLOOD AND SEEAGE	LOW PRESSURE- LOW VOLUME
CABBAGE	0	0	0	0	0	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	0	0	0	0	0	0
POTATOES	0	0	0	0	0	0
SWEET CORN	0	0	0	0	0	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	0	0	0	0	0	0
BLUEBERRIES	0	0	0	0	0	0
CITRUS	15,400	10,400	9,400	0	0	1,000
GRAPES	0	0	0	0	0	0
PEACHES	0	0	0	0	0	0
PEANUTS	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
WATERMELONS	0	0	0	0	0	0
MISC. FRUITS	0	0	0	0	0	0
FIELD CORN	0	0	0	0	0	0
SORGHUM	0	0	0	0	0	0
SOYBEANS	0	0	0	0	0	0
TOBACCO	0	0	0	0	0	0
MISC. GRAINS	0	0	0	0	0	0
FERNS	0	0	0	0	0	0
FLOWERS & FOLIAGE	5	5	5	0	0	0
IMPROVED PASTURE	4,500	100	0	0	100	0
SHRUBS	50	50	50	0	0	0
SOD	0	0	0	0	0	0
TURF GRASS	0	0	0	0	0	0
 TOTAL	 19,955	 10,555	 9,455	 0	 100	 1,000

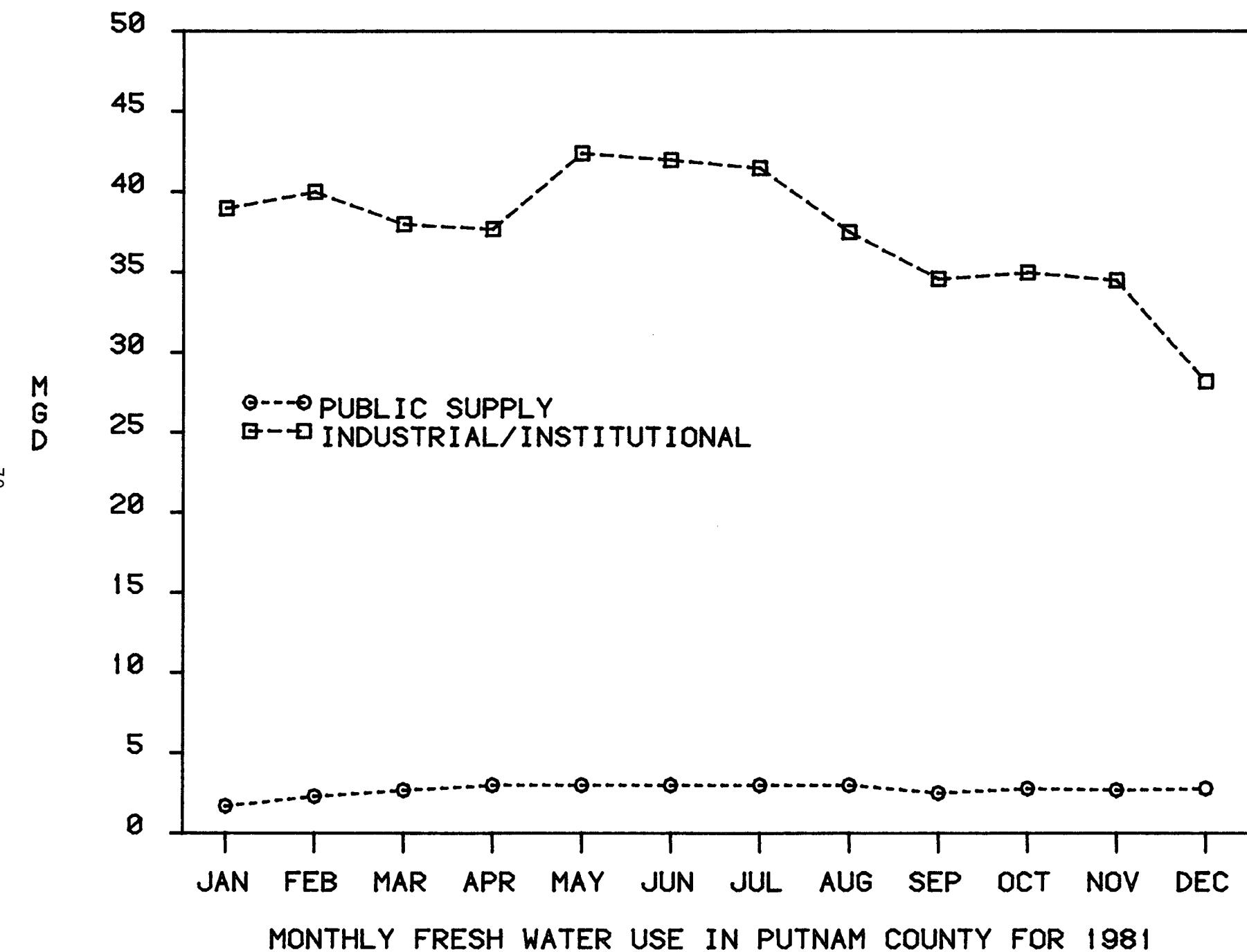
1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.

TABLE A-28 IRRIGATION WATER USE

POLK COUNTY

1981

CROE	APPLICATION RATES			WATER WITHDRAWN						
	SPRINKLER	(ACRE INCHES/YR)	SEEPAGE	LOW PRESSURE VOL	TOTAL AC_EI	GROUND	(MGD)	SURFACE	RE-USED	TOTAL
CABBAGE	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
CARROTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
CUCUMBERS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
POTATOES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
SWEET CORN	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
WATERCRESS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
MISC. VEGETABLES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
BLUEBERRIES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
CITRUS	20.5	0.0	18.22	16058	14.3	0.0	0.0	0.0	0.0	14.3
GRAPEs	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
PEACHES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
PEANUTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
PECANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
WATERMELONS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
MISC. FRUIT	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
FIELD CORN	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
SORGHUM	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
SOYBEANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
TOBACCO	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
MISC. GRAINS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
FENNS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
FLOWERS & FOLIAGE	60.0	0.0	0.0	25	0.02	0.0	0.0	0.0	0.0	0.02
IMPROVED PASTURE	0.0	55.88	0.0	466	0.38	0.04	0.0	0.0	0.0	0.42
SHRUBS	100.0	0.0	0.0	417	0.37	0.0	0.0	0.0	0.0	0.37
SOIL	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
TURF GRASS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
LIVESTOCK					0.0	0.0	0.0	0.0	0.0	0.0
TOTAL				16966	15.07	0.04	0.0	0.0		15.11



COUNTY: PUTNAM

Total Population: 51,238

Total Area: 879 sq.miles

St. Johns River Water Management Portion

Population: 51,238

Population Public Supply: 12,947

Population Domestic Self-supplied: 38,291

Gallons Per Capita Day: 214

Area: 876 sq.miles (560,640 acres)

Acres Farmed: 50,765

Acres Irrigated: 10,945

Fresh Water Use 1981 (MGD)

	GROUND	SURFACE	TOTAL
Public	2.77	0.0	2.77
Domestic	8.16	0.0	8.16
Industrial	29.38	8.07	37.45
Agricultural Irrigation	24.31	1.10	25.41
Thermoelectric	0.24	0.41	0.65
Heat pump/air condition	1.60	0.0	1.60
 TOTALS	66.46	9.58	76.04

PUTNAM

TABLE A-29 ACRES FARMED AND IRRIGATED

PUTNAM COUNTY (1)

1981

CROP	TOTAL ACRES	IRRIGATED ACRES	IRRIGATION METHODS USED (ACRES)			
			SPRINKLER	TILE SEEPEAGE	FLOOD AND SEEPEAGE	LOW PRESSURE- LOW VOLUME
CABBAGE	3,000	3,000	150	0	2,850	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	0	0	0	0	0	0
POTATOES	3,000	3,000	0	0	3,000	0
SWEET CORN	0	0	0	0	0	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	200	200	0	0	200	0
BLUEBERRIES	75	55	0	0	0	55
CITRUS	2,500	220	220	0	0	0
GRAPES	10	10	10	0	0	0
PEACHES	0	0	0	0	0	0
PEANUTS	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
WATERMELONS	0	0	0	0	0	0
MISC. FRUITS	0	0	0	0	0	0
FIELD CORN	3,000	1,000	0	0	1,000	0
SORGHUM	0	0	0	0	0	0
SOYBEANS	1,000	0	0	0	0	0
TOBACCO	0	0	0	0	0	0
MISC. GRAINS	0	0	0	0	0	0
FERNS	700	700	700	0	0	0
FLOWERS & FOLIAGE	220	220	0	0	220	0
IMPROVED PASTURE	37,000	2,500	0	0	2,500	0
SHRUBS	0	0	0	0	0	0
SOD	0	0	0	0	0	0
TURF GRASS	60	40	40	0	0	0
 TOTAL	 50,765	 10,945	 1,120	 0	 9,770	 55

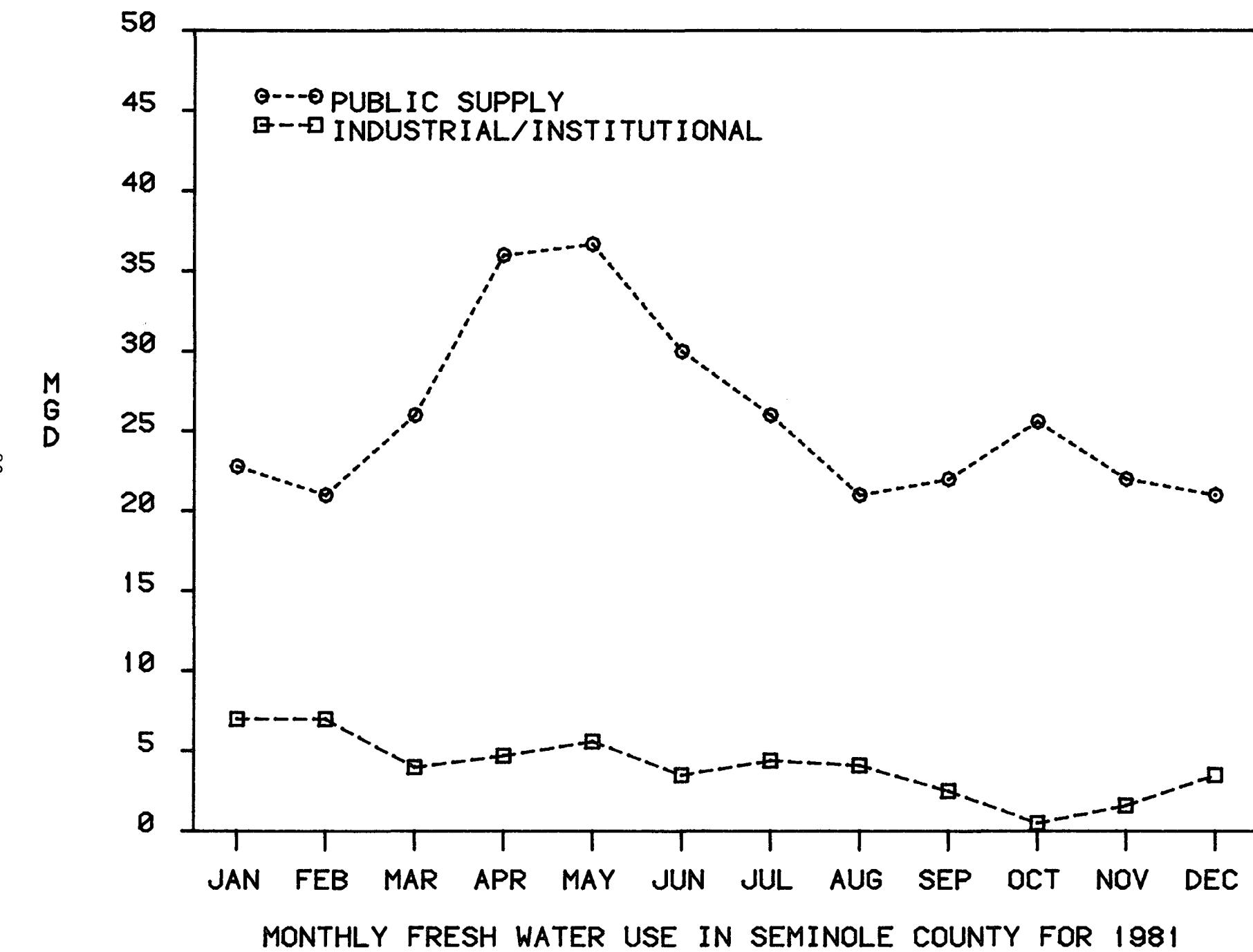
1. THIS COUNTY IS PARTIALLY WITHIN THE SJRWMD. THE DATA GIVEN IS FOR THAT PART OF THE COUNTY WITHIN THE SJRWMD.

TABLE A-30 IRRIGATION WATER USE

PUTNAM COUNTY

1981

CROPS	APPLICATION RATES			WATER WITHDRAWN			
	SPRINKLER ACRE INCHES/YR.	SEEPAGE ACRE INCHES/YR.	LOW PRESSURE/VOL	TOTAL AC. ET	GROUND (MGD)	surface re-used	TOTAL (MGD)
CABBAGE	0.0	12.36	0.0	3090	2.76	0.0	2.76
CARROTS	0.0	0.0	0.0	0	0.0	0.0	0.0
CUCUMBERS	0.0	0.0	0.0	0	0.0	0.0	0.0
POTATOES	0.0	19.21	0.0	4803	4.0	0.29	4.29
SWEET CORN	0.0	0.0	0.0	0	0.0	0.0	0.0
WATERCRESS	0.0	0.0	0.0	0	0.0	0.0	0.0
MISC. VEGETABLES	0.0	31.99	0.0	533	0.48	0.0	0.48
BLUEBERRIES	0.0	0.0	21.47	98	0.09	0.0	0.09
CITRUS	21.78	0.0	0.0	400	0.36	0.0	0.36
GRAPES	24.16	0.0	0.0	20	0.02	0.0	0.02
PEACHES	0.0	0.0	0.0	0	0.0	0.0	0.0
PEANUTS	0.0	0.0	0.0	0	0.0	0.0	0.0
PECANS	0.0	0.0	0.0	0	0.0	0.0	0.0
WATERMELONS	0.0	0.0	0.0	0	0.0	0.0	0.0
MISC. FRUIT	0.0	0.0	0.0	0	0.0	0.0	0.0
FIELD CORN	0.0	25.07	0.0	2089	1.68	0.19	1.87
SORGHUM	0.0	0.0	0.0	0	0.0	0.0	0.0
SOYBEANS	0.0	0.0	0.0	0	0.0	0.0	0.0
TOBACCO	0.0	0.0	0.0	0	0.0	0.0	0.0
MISC. GRAINS	0.0	0.0	0.0	0	0.0	0.0	0.0
FERNS	65.0	0.0	0.0	3250	2.61	0.29	2.9
FLOWERS & FOLIAGE	0.0	100.0	0.0	1833	1.48	0.16	1.64
IMPROVED PASTURE	0.0	55.98	0.0	11663	10.41	0.0	10.41
SHRUBS	0.0	0.0	0.0	0	0.0	0.0	0.0
SOD	0.0	0.0	0.0	0	0.0	0.0	0.0
TURF GRASS	41.05	0.0	0.0	205	0.18	0.0	0.18
LIVESTOCK					0.24	0.17	0.41
TOTAL				27984	24.31	1.1	0.0
							25.41



COUNTY: SEMINOLE

Total Population: 186,840

Total Area: 352 sq.miles

St. Johns River Water Management Portion

Population: 186,840

Population Public Supply: 153,281

Population Domestic Self-supplied: 33,559

Gallons Per Capita Day: 169

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

Acres Farmed: 22,383

Acres Irrigated: 12,829

Fresh Water Use 1981 (MGD)

	GROUND	SURFACE	TOTAL
Public	25.97	0.0	25.97
Domestic	5.67	0.0	5.67
Industrial	4.03	0.0	4.03
Agricultural Irrigation	20.07	0.40	20.47
Thermoelectric	0.0	0.0	0.0
Heat pump/air condition	0.0	0.0	0.0
 TOTALS	55.74	0.40	56.14

SEMINOLE

TABLE A-31 ACRES FARMED AND IRRIGATED

SEMINOLE COUNTY

1981

CROP	TOTAL ACRES	IRRIGATED ACRES	IRRIGATION METHODS USED (ACRES)			
			SPRINKLER	TILE SEEPAGE	FLOOD AND SEEPAGE	LOW PRESSURE- LOW VOLUME
CABBAGE	1,600	1,600	0	1,600	0	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	1,600	1,600	0	1,600	0	0
POTATOES	0	0	0	0	0	0
SWEET CORN	40	40	0	40	0	0
WATERCRESS	100	100	0	0	100	0
MISC. VEGETABLES	960	873	0	873	0	0
BLUEBERRIES	5	5	0	5	0	0
CITRUS (1)	6,700	4,800	4,080	260	0	460
GRAPES	0	0	0	0	0	0
PEACHES	0	0	0	0	0	0
PEANUTS	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
WATERMELONS	0	0	0	0	0	0
MISC. FRUITS	0	0	0	0	0	0
FIELD CORN	200	200	0	100	100	0
SORGHUM	40	40	0	0	40	0
SOYBEANS	40	40	0	40	0	0
TOBACCO	0	0	0	0	0	0
MISC. GRAINS	0	0	0	0	0	0
FERNS	20	20	20	0	0	0
FLOWERS & FOLIAGE	560	560	440	0	0	120
IMPROVED PASTURE	9,000	2,000	0	0	2,000	0
SHRUBS	25	25	25	0	0	0
SOD	300	300	0	0	300	0
TURF GRASS	1,173	626	626	0	0	0
 TOTAL	 22,383	 12,829	 5,191	 4,518	 2,540	 580

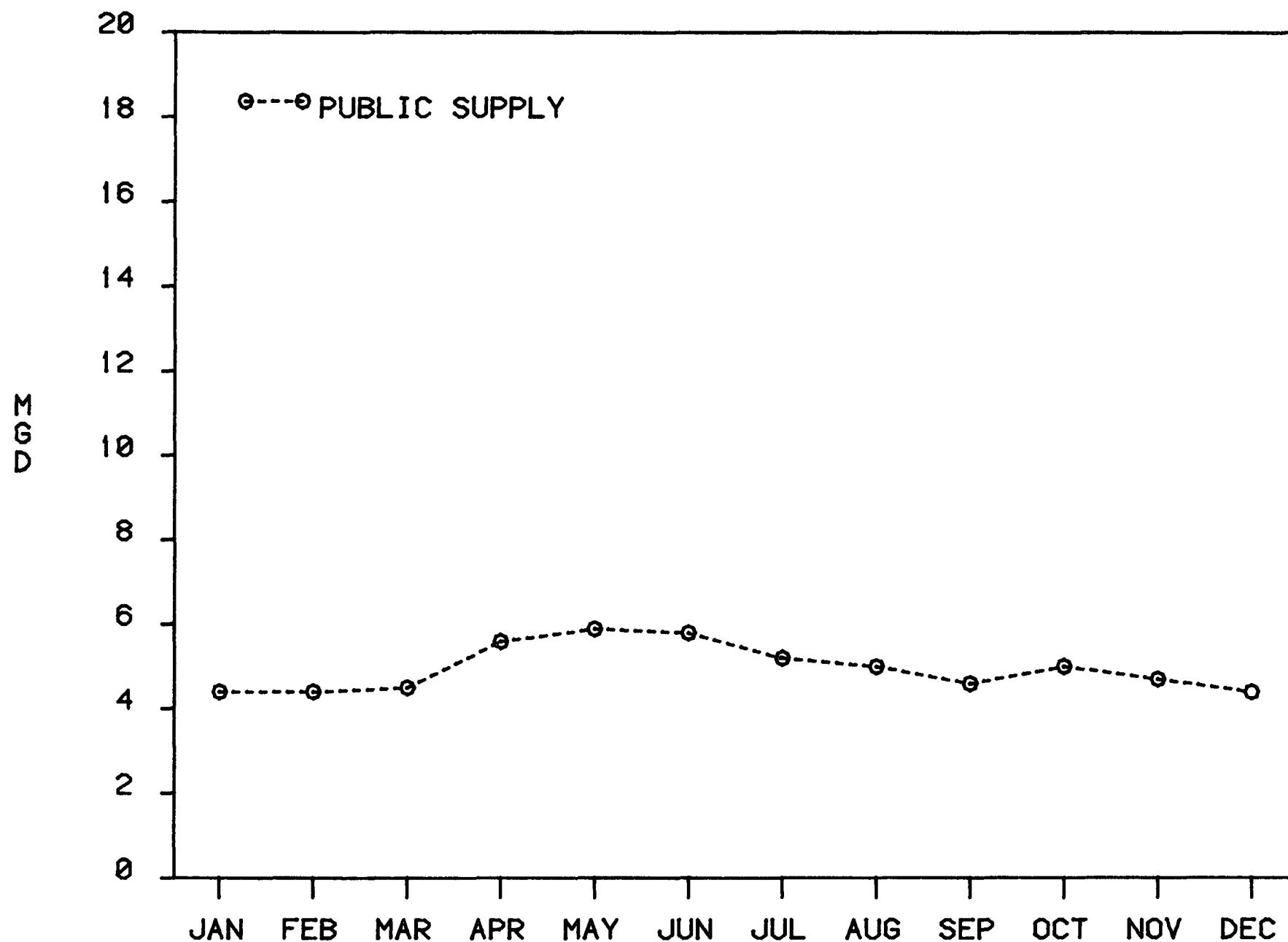
1. CITRUS ACREAGE MAY BE REDUCED BY JANUARY 82 FREEZE. THIS WILL SHOW IN NEXT YEAR'S ACREAGE.

TABLE A-32 IRRIGATION WATER USE

SEMINOLE COUNTY

1981

CROB	APPLICATION RATES			WATER WITHDRAWN					
	SERINKLER	ACRE INCHES/YR	SEEAGE	LOW PRESSURE/VOL	TOIAL AC.EI.	GROUND	SURFACE	BE USED	TOIAL
CABBAGE	0.0	12.36	0.0	1648	1.47	0.0	0.0	0.0	1.47
CARROTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
CUCUMBERS	0.0	12.36	0.0	1648	1.47	0.0	0.0	0.0	1.47
POTATOES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
SWEET CORN	0.0	24.61	0.0	82	0.07	0.0	0.0	0.0	0.07
WATERCRESS	0.0	11.0	0.0	92	0.08	0.0	0.0	0.0	0.08
MISC. VEGETABLES	0.0	8.84	0.0	643	0.57	0.0	0.0	0.0	0.57
BLUEBERRIES	0.0	15.23	0.0	6	0.01	0.0	0.0	0.0	0.01
CITRUS	14.04	22.46	12.48	5737	5.12	0.0	0.0	0.0	5.12
GRAPEs	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
PEACHES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
PEANUTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
PECANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
WATERMELONS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
MISC. FRUIT	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
FIELD CORN	0.0	24.61	0.0	410	0.37	0.0	0.0	0.0	0.37
SORGHUM	0.0	13.8	0.0	46	0.04	0.0	0.0	0.0	0.04
SOYBEANS	0.0	14.98	0.0	50	0.04	0.0	0.0	0.0	0.04
TOBACCO	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
MISC. GRAINS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
FERNs	52.0	0.0	0.0	87	0.08	0.0	0.0	0.0	0.08
FLOWERS & FOLIAGE	100.0	0.0	80.00	4467	3.99	0.0	0.0	0.0	3.99
IMPROVED PASTURE	0.0	51.0	0.0	8500	3.28	0.0	0.0	0.0	3.28
SHRUBS	50.0	0.0	0.0	104	0.09	0.0	0.0	0.0	0.09
SOD	0.0	51.0	0.0	1275	1.14	0.0	0.0	0.0	1.14
TURF GRASS	51.0	0.0	0.0	2660	2.07	0.3	0.0	0.0	2.37
LIVESTOCK					0.18	0.1	0.0	0.0	0.28
TOTAL				27455	20.07	0.4	0.0	0.0	20.47



MONTHLY FRESH WATER USE IN ST. JOHNS COUNTY FOR 1981

COUNTY: ST. JOHNS

Total Population: 53,701

Total Area: 660 sq. miles

St. Johns River Water Management Portion

Population: 35,128

Population Public Supply: 18,573

Population Domestic Self-supplied: 18,573

Gallons Per Capita Day: 141

Area: 660 sq. miles (442,400 acres)

Acres Farmed: 34,910

Acres Irrigated: 25,226

Fresh Water Use 1981 (MGD)

	GROUND	SURFACE	TOTAL
Public	4.96	0.0	4.96
Domestic	2.62	0.0	2.62
Industrial	0.01	0.0	0.01
Agricultural Irrigation	29.86	0.49	30.35
Thermoelectric	0.0	0.0	0.0
Heat pump/air condition	0.0	0.0	0.0
TOTALS	37.45	0.49	37.94

St. Johns

TABLE A-33 ACRES FARMED AND IRRIGATED

ST. JOHNS COUNTY

1981

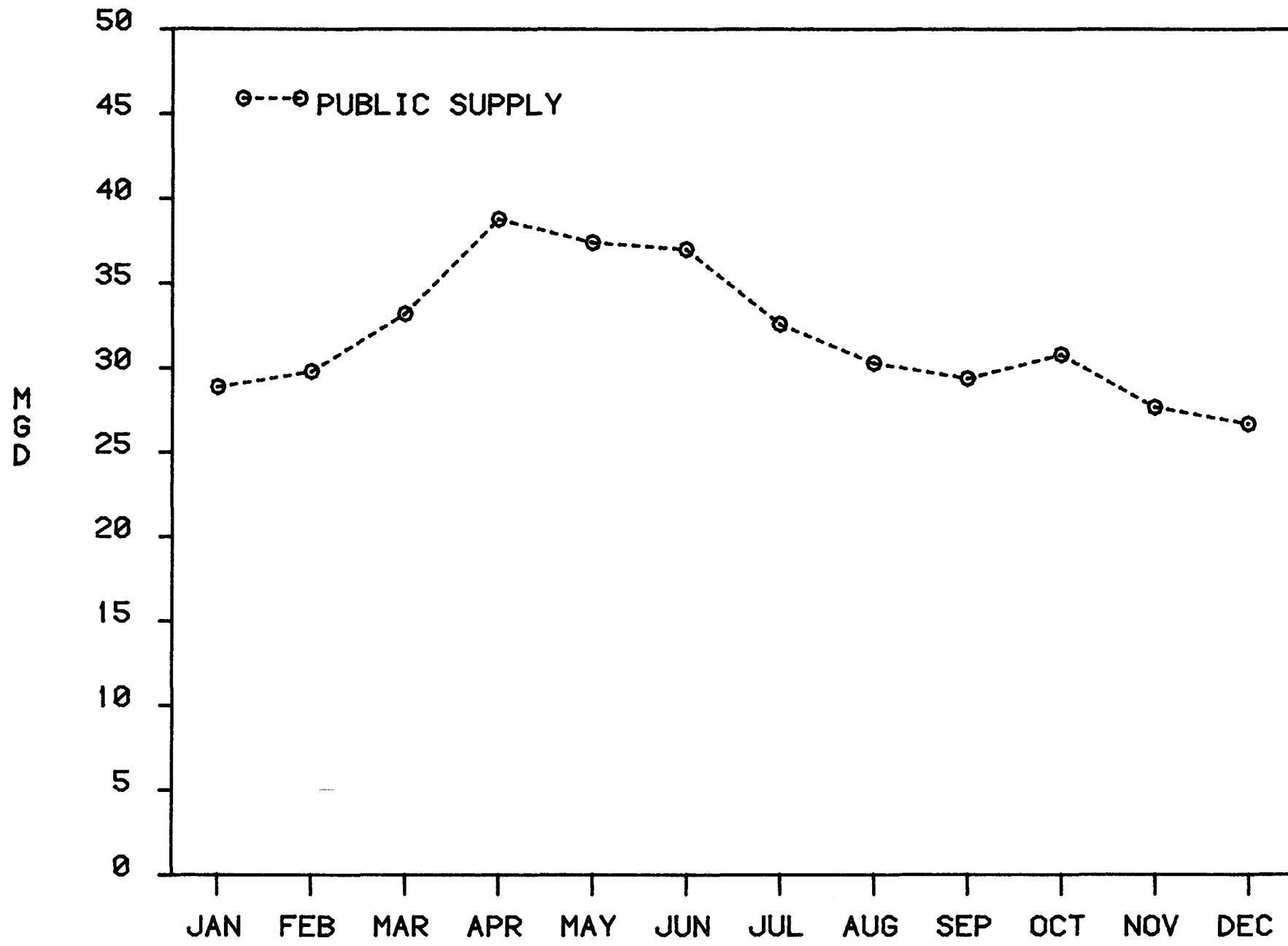
CROP	TOTAL ACRES	IRRIGATED ACRES	IRRIGATION METHODS USED (ACRES)			
			SPRINKLER	TILE SEEPAGE	FLOOD AND SEEPAGE	LOW PRESSURE- LOW VOLUME
CABBAGE	5,000	5,000	0	5,000	0	0
CARROTS	0	0	0	0	0	0
CUCUMBERS	0	0	0	0	0	0
POTATOES	15,000	15,000	0	15,000	0	0
SWEET CORN	500	500	0	500	0	0
WATERCRESS	0	0	0	0	0	0
MISC. VEGETABLES	500	500	0	500	0	0
BLUEBERRIES	5	5	0	0	0	5
CITRUS	100	100	0	100	0	0
GRAPES	0	0	0	0	0	0
PEACHES	0	0	0	0	0	0
PEANUTS	0	0	0	0	0	0
PECANS	0	0	0	0	0	0
WATERMELONS	0	0	0	0	0	0
MISC. FRUITS	0	0	0	0	0	0
FIELD CORN	1,000	1,000	0	1,000	0	0
SORGHUM	500	500	0	500	0	0
SOYBEANS	1,000	1,000	0	1,000	0	0
TOBACCO	0	0	0	0	0	0
MISC. GRAINS	0	0	0	0	0	0
FERNS	5	5	5	0	0	0
FLOWERS & FOLIAGE	25	25	15	10	0	0
IMPROVED PASTURE	10,500	1,000	0	1,000	0	0
SHRUBS	75	75	75	0	0	0
SOD	0	0	0	0	0	0
TURF GRASS	700	516	516	0	0	0
 TOTAL	 34,910	 23,226	 611	 24,610	 0	 5

TABLE A-34 IRRIGATION WATER USE

ST. JOHNS COUNTY

1981

CROUE	APPLICATION RATES			WATER WITHDRAWN				TOTAL AC. ET
	SPRINKLER	(ACRE INCHES/YR)	SEEPAGE	LOW PRESSURE/VOL	GROUND	SURFACE	RE-USED	
CABBAGE	0.0	12.3	0.0	5125	4.58	0.0	0.0	4.58
CARROTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
CUCUMBERS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
POTATOES	0.0	12.66	0.0	15825	14.13	0.0	0.0	14.13
SWEET CORN	0.0	20.79	0.0	866	0.77	0.0	0.0	0.77
WATERCRESS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. VEGETABLES	0.0	24.81	0.0	1033	0.92	0.0	0.0	0.92
BLUERBERRIES	0.0	0.0	9.3	4	0.0	0.0	0.0	0.0
CITRUS	0.0	28.69	0.0	239	0.21	0.0	0.0	0.21
GRAPEs	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PEACHES	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PEANUTS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PECANS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
WATERMELONS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. FRUIT	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FIELD CORN	0.0	20.79	0.0	1733	1.55	0.0	0.0	1.55
SORGHUM	0.0	15.86	0.0	661	0.59	0.0	0.0	0.59
SOYBEANS	0.0	15.86	0.0	1321	1.18	0.0	0.0	1.18
TOBACCO	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
MISC. GRAINS	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
FERNS	65.0	0.0	0.0	27	0.02	0.0	0.0	0.02
FLOWERS & FOLIAGE	85.0	100.0	0.0	189	0.17	0.0	0.0	0.17
IMPROVED PASTURE	0.0	48.82	0.0	4068	3.63	0.0	0.0	3.63
SHRUBS	70.0	0.0	0.0	438	0.39	0.0	0.0	0.39
SOD	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
TURF GRASS	80.31	0.0	0.0	3453	1.57	0.4	1.11	1.97
LIVESTOCK					0.15	0.09	0.0	0.24
TOTAL				34982	29.86	0.49	1.11	30.35



MONTHLY FRESH WATER USE IN VOLUSIA COUNTY FOR 1981

COUNTY: VOLUSIA

Total Population: 268,175

Total Area: 1,207 sq. miles

St. Johns River Water Management Portion

Population: 268,175

Population Public Supply: 234,853

Population Domestic Self-supplied: 33,322

Gallons Per Capita Day: 135

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

Acres Farmed: 31,515

Acres Irrigated: 7,791

Fresh Water Use 1981 (MGD)

	GROUND	SURFACE	TOTAL
Public	31.79	0.0	31.79
Domestic	4.52	0.0	4.52
Industrial	0.54	0.01	0.55
Agricultural Irrigation	26.25	1.36	27.61
Thermoelectric	0.34	4.85	5.19
Heat pump/air condition	6.16	0.0	6.16
 TOTALS	69.60	6.22	75.82

VOLUSIA

TABLE A-35 ACRES FARMED AND IRRIGATED

VOLUSIA COUNTY

1981

CROPS	TOTAL ACRES	IRRIGATED ACRES	IRRIGATION METHODS USED (ACRES)		
			SPRINKLER	TILE SEEPAGE	FLOOD AND SEEPAGE
CABBAGE (1)	880	880	0	0	880
CARROTS	0	0	0	0	0
CUCUMBERS (1)	880	880	0	0	880
POTATOES	0	0	0	0	0
SWEET CORN	0	0	0	0	0
WATERCRESS	0	0	0	0	0
MISC. VEGETABLES	100	100	0	0	100
BLUEBERRIES	0	0	0	0	0
CITRUS	10,143	500	420	0	0
GRAPEs	0	0	0	0	0
PEACHES	0	0	0	0	0
PEANUTS	0	0	0	0	0
PECANS	0	0	0	0	0
WATERMELONS	0	0	0	0	0
MISC. FRUITS	0	0	0	0	0
FIELD CORN	0	0	0	0	0
SORGHUM	0	0	0	0	0
SOYBEANS	300	0	0	0	0
TOBACCO	0	0	0	0	0
MISC. GRAINS	0	0	0	0	0
FERNS	4,500	3,800	3,800	0	0
FLOWERS & FOLIAGE	5	5	5	0	0
IMPROVED PASTURE	12,600	300	0	0	300
SHRUBS	0	0	0	0	0
SOD	200	100	100	0	0
TURF GRASS	1,907	1,226	1,226	0	0
 TOTAL	 31,515	 7,791	 5,551	 0	 1,368
					80

(1) DOUBLE CROPPING

TABLE A-36 IRRIGATION WATER USE

VOLUSIA COUNTY

1981

CROE	APPLICATION RATES			WATER WITHDRAWN			
	SPRINKLER	(ACRE INCHES/YR)	SEEPAGE	TOTAL AC. ET	GROUND (MGD)	SURFACE RE-USED	TOTAL
CARROTS	0.0	12.36	0.0	906	0.81	0.0	0.0
CUCUMBERS	0.0	0.0	0.0	0	0.0	0.0	0.0
POTATOES	0.0	12.36	0.0	906	0.81	0.0	0.0
SWEET CORN	0.0	0.0	0.0	0	0.0	0.0	0.0
WATERCRESS	0.0	0.0	0.0	0	0.0	0.0	0.0
MISC. VEGETABLES	0.0	24.05	0.0	200	0.18	0.0	0.0
BLUEBERRIES	0.0	0.0	0.0	0	0.0	0.0	0.0
CITRUS	20.9	0.0	18.58	856	0.76	0.0	0.0
GRAPEs	0.0	0.0	0.0	0	0.0	0.0	0.0
PEACHES	0.0	0.0	0.0	0	0.0	0.0	0.0
PEANUTS	0.0	0.0	0.0	0	0.0	0.0	0.0
PECANS	0.0	0.0	0.0	0	0.0	0.0	0.0
WATERMELONS	0.0	0.0	0.0	0	0.0	0.0	0.0
MISC. FRUIT	0.0	0.0	0.0	0	0.0	0.0	0.0
FIELD CORN	0.0	0.0	0.0	0	0.0	0.0	0.0
SORGHUM	0.0	0.0	0.0	0	0.0	0.0	0.0
SOYBEANS	0.0	0.0	0.0	0	0.0	0.0	0.0
TOBACCO	0.0	0.0	0.0	0	0.0	0.0	0.0
MISC. GRAINS	0.0	0.0	0.0	0	0.0	0.0	0.0
FERNS	65.0	0.0	0.0	20583	18.3	0.0	0.0
FLOWERS & FOLIAGE	100.0	0.0	0.0	42	0.04	0.0	0.0
IMPROVED PASTURE	0.0	50.12	0.0	1253	1.12	0.0	0.0
SHRUBS	0.0	0.0	0.0	0	0.0	0.0	0.0
SOD	50.12	0.0	0.0	418	0.37	0.0	0.0
TURF GRASS	49.13	0.0	0.0	5020	3.78	0.7	0.0
LIVESTOCK					0.08	0.66	0.0
TOTAL	235.03	98.89	18.58	30184	26.25	1.36	0.0
							27.61

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