

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**ESTIMATED WATER USE IN THE SOUTHWEST  
FLORIDA WATER MANAGEMENT DISTRICT AND  
ADJACENT AREAS, 1979**

OPEN-FILE REPORT 81-56

Prepared in cooperation with the  
SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT



## CONVERSION FACTORS

For the convenience of readers who prefer to use SI (metric) units rather than inch-pound units, conversion factors for terms used in this report are listed below:

<u>Multiply inch-pound unit</u>	<u>By</u>	<u>To obtain SI (metric) unit</u>
inch (in)	25.4	millimeter (mm)
foot (ft)	0.3048	meter (m)
acre	0.004047	square kilometer (km <sup>2</sup> )
gallon (gal)	0.003785	cubic meter (m <sup>3</sup> )
million gallons per day (Mgal/d)	0.04381	cubic meters per second (m <sup>3</sup> /s)

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MANAGEMENT DISTRICT AND ADJACENT AREAS, 1979

By A. D. Duerr and J. T. Trommer

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Tallahassee, Florida

1981

UNITED STATES DEPARTMENT OF THE INTERIOR

CECIL D. ANDRUS, Secretary

GEOLOGICAL SURVEY

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# ESTIMATED WATER USE IN THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT AND ADJACENT AREAS, 1979

By A. D. Duerr and J. T. Trommer

## ABSTRACT

Water-use data for 1979 are summarized in this report for 16 counties in the Southwest Florida Water Management District. Data include total use of ground water and surface water for each of five water-use categories. The 1979 withdrawals for each category were as follows: 267 million gallons per day for public supply, 65 million gallons per day for rural, 376 million gallons per day for industrial, 413 million gallons per day for irrigation, and 6,194 million gallons per day for thermoelectric power generation of which 5,886 million gallons per day was saline water.

Withdrawals totaled 7,315 million gallons per day and included 993 million gallons per day of ground water and 6,322 million gallons per day of surface water. Excluding thermoelectric power generation, all water withdrawn was freshwater except 52 million gallons per day of saline ground water for industrial use in Hillsborough County.

## INTRODUCTION

Southwest Florida has undergone rapid population growth during the last decade. This growth has increased the competition among users of water for all purposes. The 1970 and 1975 water-use inventories (Pride, 1973; Leach, 1978a) indicated a need for annual updates of water-use data. This is particularly important in areas of rapidly increasing population where industries have been established or expanded, where agricultural irrigation has expanded, and where thermoelectric power generation has increased. Water-use data are used in quantitative investigations, such as predicting water-level declines, salt-water encroachment studies, and determining future demands for water.

In 1976, the Southwest Florida Water Management District entered into a cooperative agreement with the U.S. Geological Survey to collect water-use data annually within the water management district. Data for 1977 were included in a statewide report (Leach and Healy, 1980) and data for 1978 are presently being prepared for similar publication.

The purpose of this report is to present 1979 water-use data for each category within the Southwest Florida Water Management District (fig. 1). Categories that are defined and discussed separately include public supply, rural, industrial, irrigation, and thermoelectric power generation. Data are presented for each county in the Southwest Florida Water Management District.

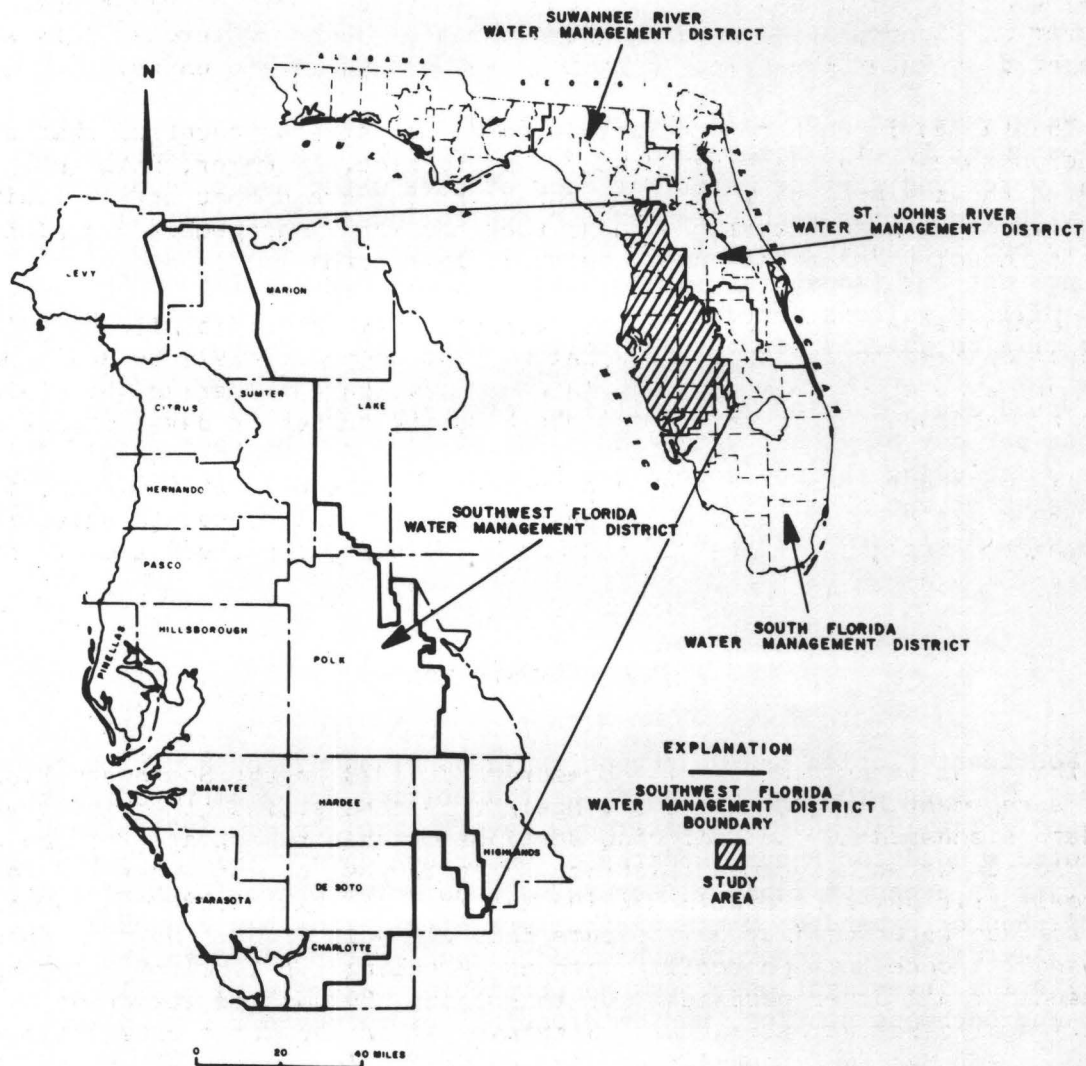


Figure 1.--Location of Southwest Florida Water Management District and adjacent water management districts.

For counties divided by two or more water management districts, subtotals for the Southwest Florida Water Management District are presented, as well as county totals. County water-use data are also segregated by hydrologic units or geographic areas that are designated as a basis for cataloging and processing hydrologic data and other information in the National Water Data Network.

The boundaries of hydrologic units coincide with those of river basins but also delineate intervening segments of drainage areas and islands, estuaries, coastal lands, and similar areas that are not part of river basins (Conover and Leach, 1975). Therefore, for each county, water-use data are segregated by water management districts and by hydrologic units.

The tables in this report include data for parts of counties that are not in the Southwest Florida Water Management District. However, data in the text and data shown graphically in the figures are for areas that are exclusively in the water management district. Boundaries for water management districts and hydrologic units for each county are shown in figures 2-17.

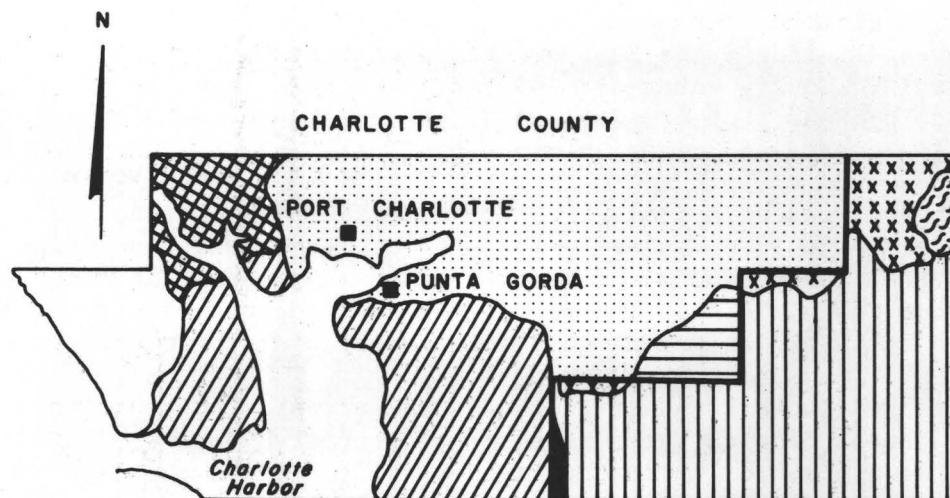
Water-use data are presented as average daily rates (in million gallons per day) derived by dividing the total gallons pumped in 1979 by 365. Monthly rates are also shown in million gallons per day, but are derived by dividing the total gallons pumped in a given month by the number of days in that month.

Although data in the tables are reported to the nearest 0.01 Mgal/d, most data are compiled from reported values and are probably accurate only within 10 percent. Irrigation data are estimated by indirect methods and are probably accurate only within 25 percent.

#### TOTAL WATER USE

The total water use for all categories in 1979 in the Southwest Florida Water Management District was 7,315 Mgal/d. Unless stated otherwise, water-use data discussed in the following sections of this report are for the Southwest Florida Water Management District. The largest use of water was for thermoelectric power generation, 6,194 Mgal/d. Of this, 5,886 Mgal/d was saline surface water used by powerplants near the Gulf Coast. Most of this water was used for once-through cooling with no recycling. A total of 1,120 Mgal/d was used for all other purposes. Of this total, 993 Mgal/d was ground water and 127 Mgal/d was surface water. Withdrawals for the other categories were as follows: 267 Mgal/d for public supply, 65 Mgal/d for rural, 376 Mgal/d for industrial, and 413 Mgal/d for irrigation (table 1). All water was freshwater except for 52 Mgal/d of saline ground water used by industry in Hillsborough County. The principal sources of ground water were the highly productive limestone aquifers.

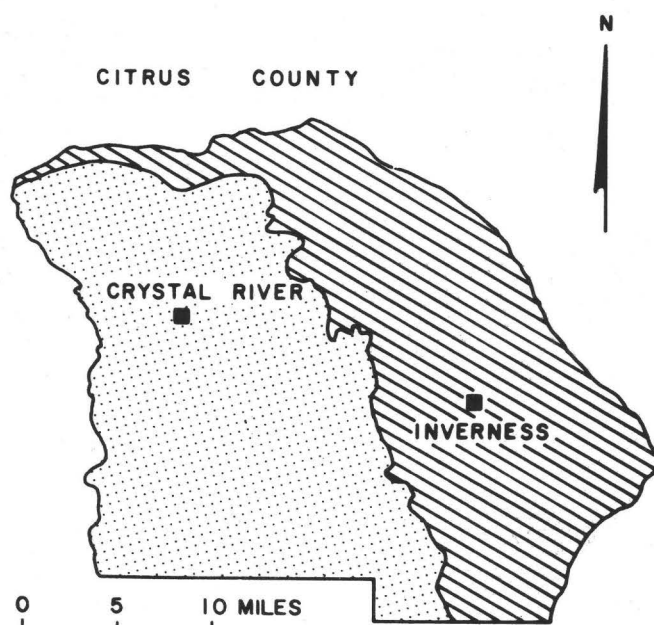
Freshwater use by counties for each use category, excluding thermoelectric power generation, is shown in figures 18-20. Figure 21 shows total freshwater use segregated into ground water and surface water by counties, excluding thermoelectric power generation. The largest user of freshwater was Polk County, withdrawing 332 Mgal/d, including 305 Mgal/d of ground water and 27 Mgal/d of surface water (fig. 21). Of the total water withdrawn in Polk County, 223 Mgal/d was used for industrial purposes (fig. 19, table 1).



#### EXPLANATION

WATER MANAGEMENT DISTRICT	HYDROLOGIC UNIT
	SOUTHWEST FLORIDA 03090205
	SOUTHWEST FLORIDA 03100101
	SOUTHWEST FLORIDA 03100102
	SOUTHWEST FLORIDA 03100103
	SOUTHWEST FLORIDA 03100201
	SOUTH FLORIDA 03090103
	SOUTH FLORIDA 03090205
	SOUTH FLORIDA 03100101
	SOUTH FLORIDA 03100103
	PUBLIC-SUPPLY SYSTEM
	WATER MANAGEMENT DISTRICT BOUNDARY
	HYDROLOGIC UNIT BOUNDARY

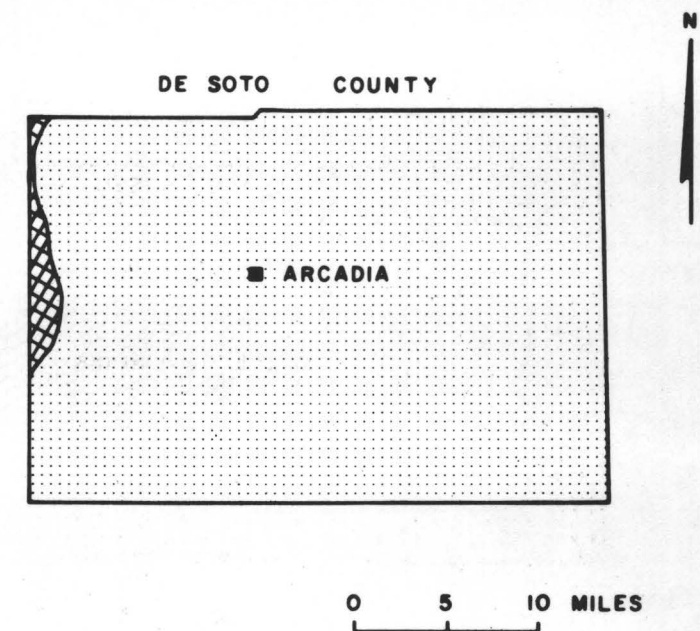
Figure 2.--Location of public-supply systems, water management districts, and hydrologic units in Charlotte County.



#### EXPLANATION

WATER MANAGEMENT DISTRICT	HYDROLOGIC UNIT
SOUTHWEST FLORIDA	03100207
SOUTHWEST FLORIDA	03100208
PUBLIC-SUPPLY SYSTEM	
HYDROLOGIC UNIT BOUNDARY	

Figure 3.--Location of public-supply systems and hydrologic units in Citrus County.



#### EXPLANATION

WATER MANAGEMENT DISTRICT	HYDROLOGIC UNIT
SOUTHWEST FLORIDA	03100101
SOUTHWEST FLORIDA	03100102
PUBLIC-SUPPLY SYSTEM	
HYDROLOGIC UNIT BOUNDARY	

Figure 4.--Location of public-supply systems and hydrologic units in De Soto County.

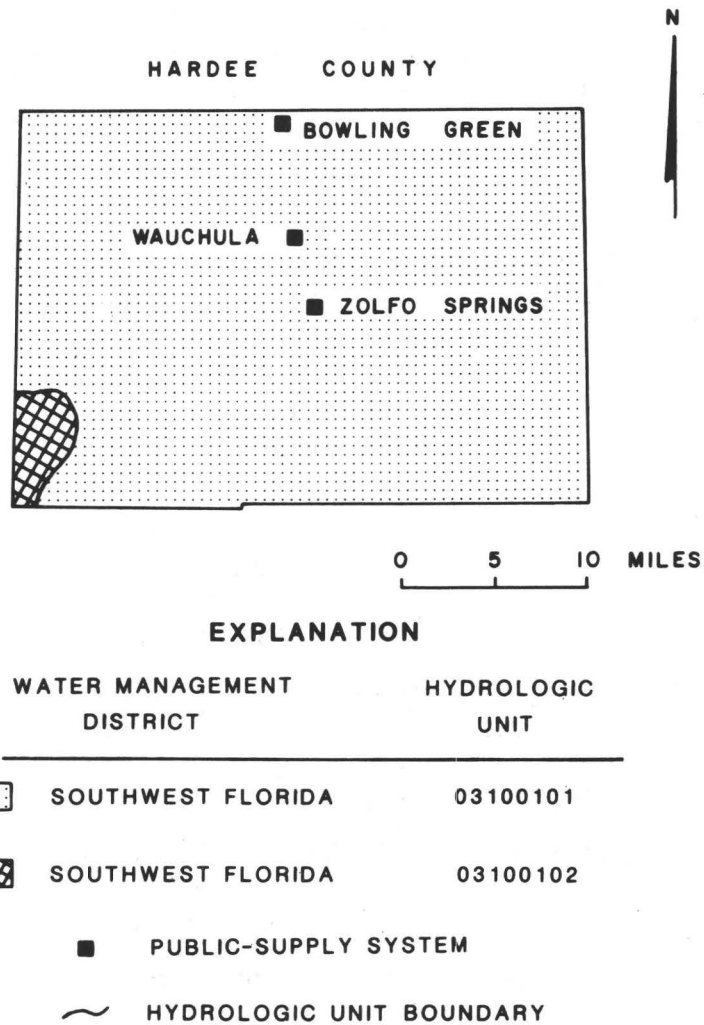
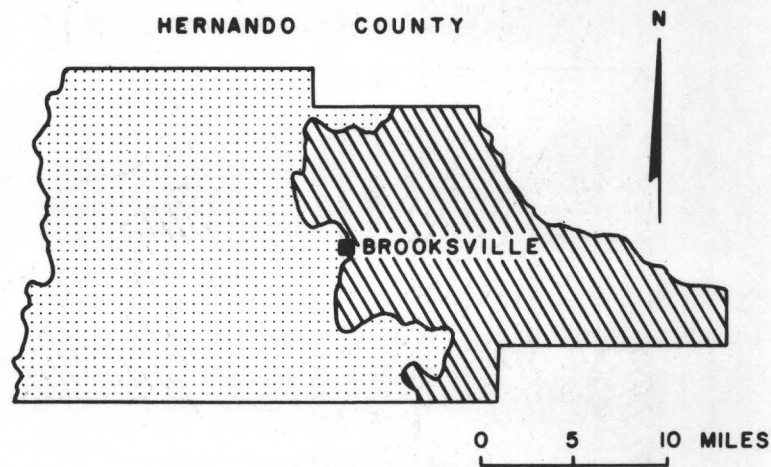


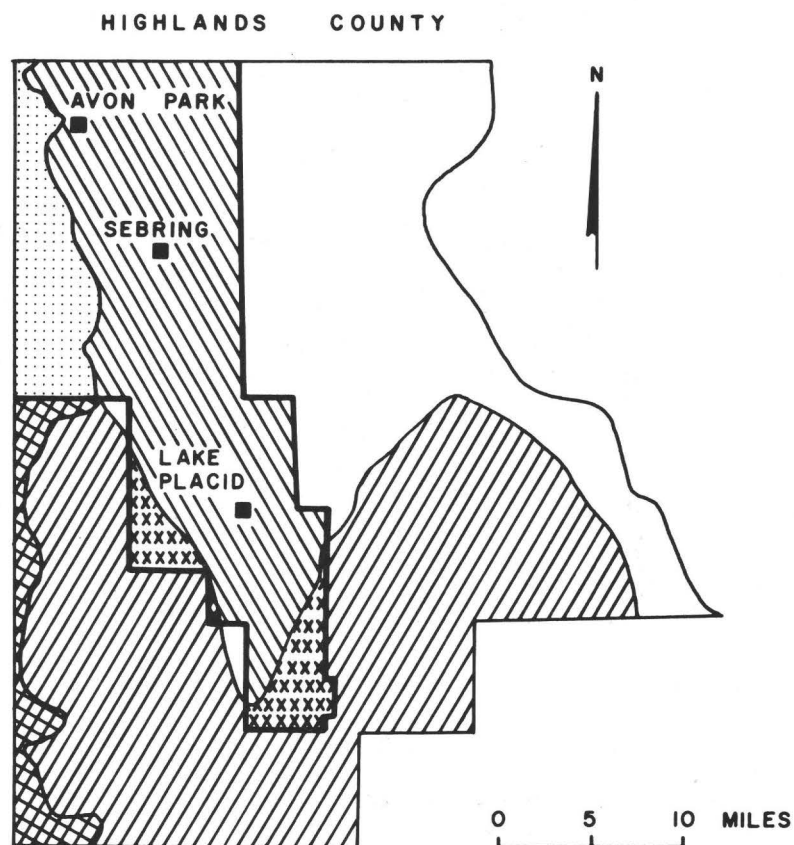
Figure 5.--Location of public-supply systems and hydrologic units in Hardee County.



#### EXPLANATION

WATER MANAGEMENT DISTRICT	HYDROLOGIC UNIT
SOUTHWEST FLORIDA	03100207
SOUTHWEST FLORIDA	03100208
PUBLIC-SUPPLY SYSTEM	
HYDROLOGIC UNIT BOUNDARY	

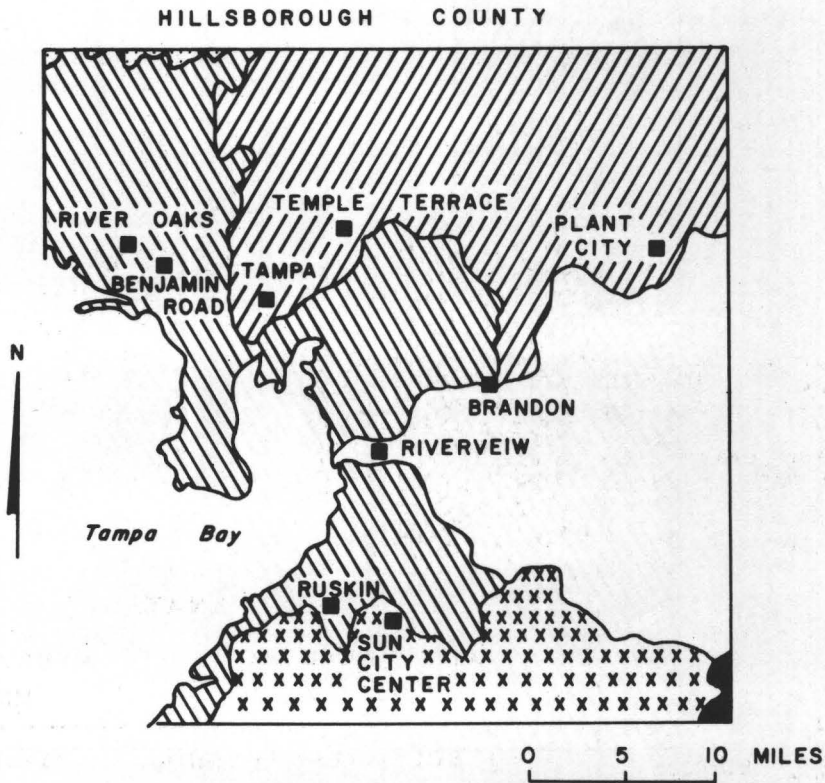
Figure 6.--Location of public-supply systems and hydrologic units in Hernando County.



### EXPLANATION

WATER MANAGEMENT DISTRICT	HYDROLOGIC UNIT
SOUTH WEST FLORIDA	03090101
SOUTH WEST FLORIDA	03090103
SOUTH WEST FLORIDA	03100101
SOUTH FLORIDA	03090101
SOUTH FLORIDA	03090103
SOUTH FLORIDA	03100101
■ PUBLIC-SUPPLY SYSTEM	
— WATER MANAGEMENT DISTRICT BOUNDARY	
~ HYDROLOGIC UNIT BOUNDARY	

Figure 7.--Location of public-supply systems, water management districts, and hydrologic units in Highlands County.



### EXPLANATION

WATER MANAGEMENT DISTRICT	HYDROLOGIC UNIT
■	SOUTHWEST FLORIDA 03100101
▨	SOUTHWEST FLORIDA 03100203
□	SOUTHWEST FLORIDA 03100204
▤	SOUTHWEST FLORIDA 03100205
▥	SOUTHWEST FLORIDA 03100206
▦	SOUTHWEST FLORIDA 03100207
■	PUBLIC-SUPPLY SYSTEM
~	HYDROLOGIC UNIT BOUNDARY

Figure 8.--Location of public-supply systems and hydrologic units in Hillsborough County.

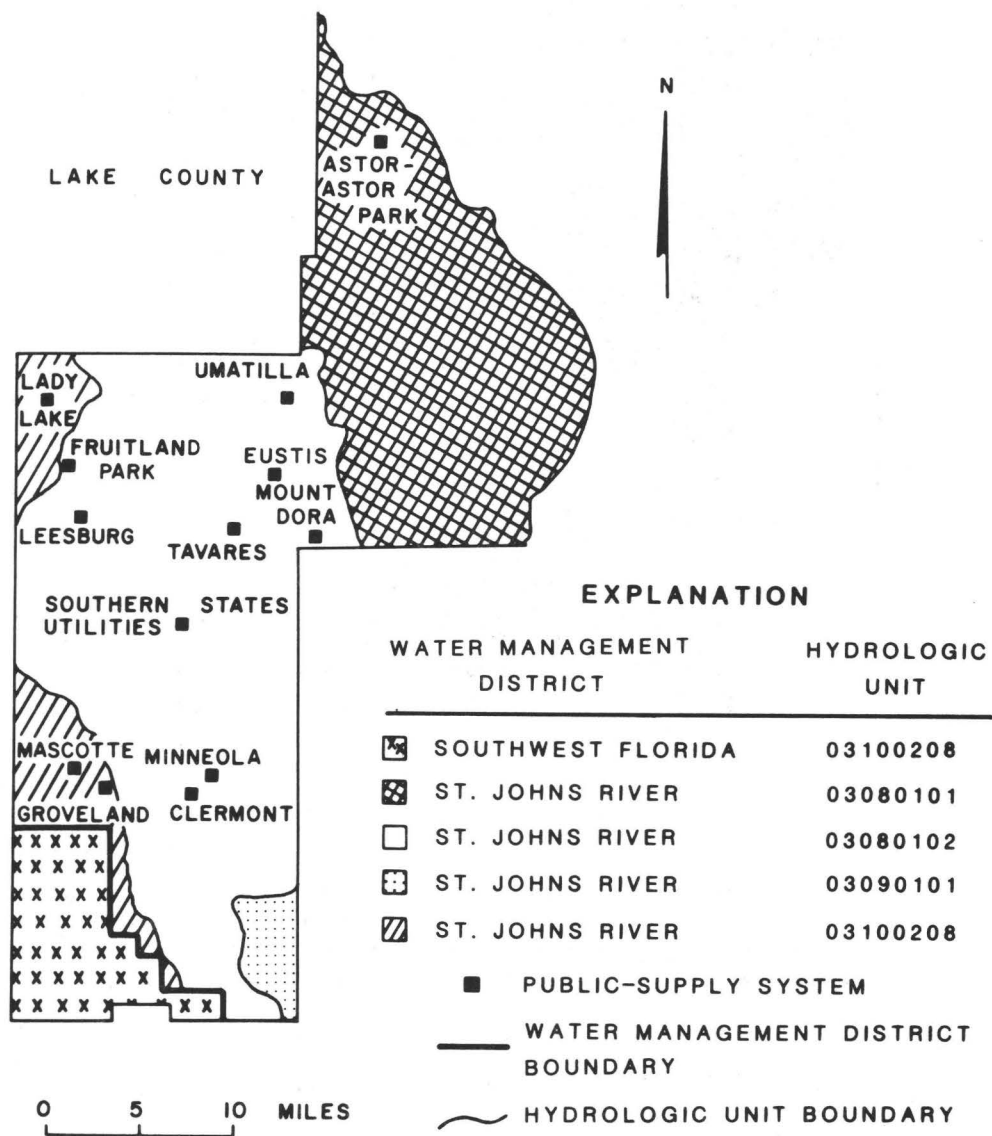
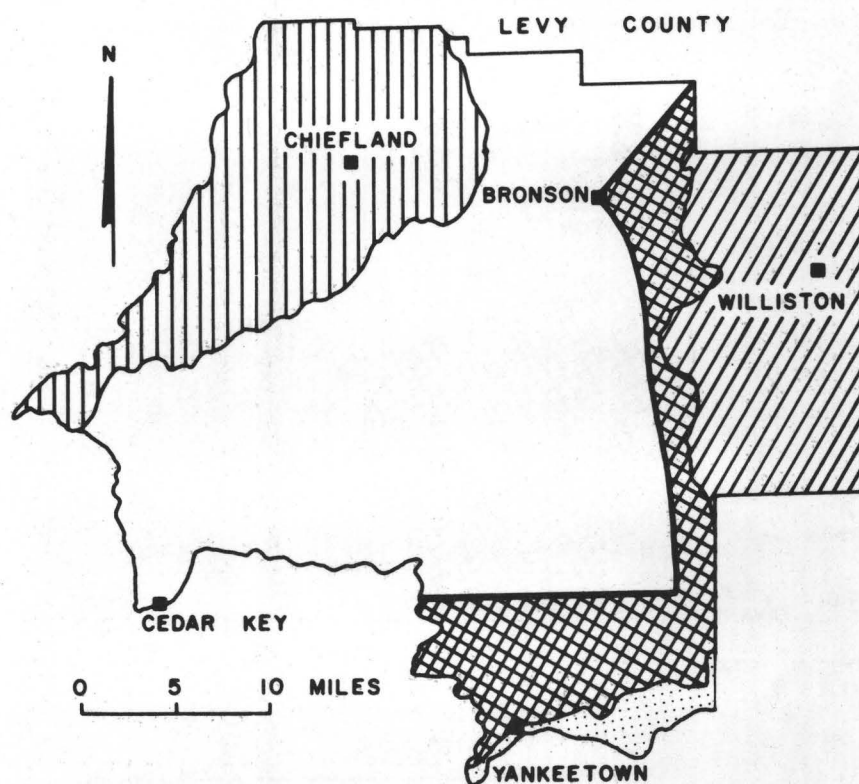


Figure 9.--Location of public-supply systems, water management districts, and hydrologic units in Lake County.



#### EXPLANATION

WATER MANAGEMENT DISTRICT	HYDROLOGIC UNIT
SOUTHWEST FLORIDA	03080102
SOUTHWEST FLORIDA	03100208
SOUTHWEST FLORIDA	03110101
SUWANNEE RIVER	03110101
SUWANNEE RIVER	03110205
PUBLIC-SUPPLY SYSTEM	
WATER MANAGEMENT DISTRICT BOUNDARY	
HYDROLOGIC UNIT BOUNDARY	

Figure 10.--Location of public-supply systems, water management districts, and hydrologic units in Levy County.

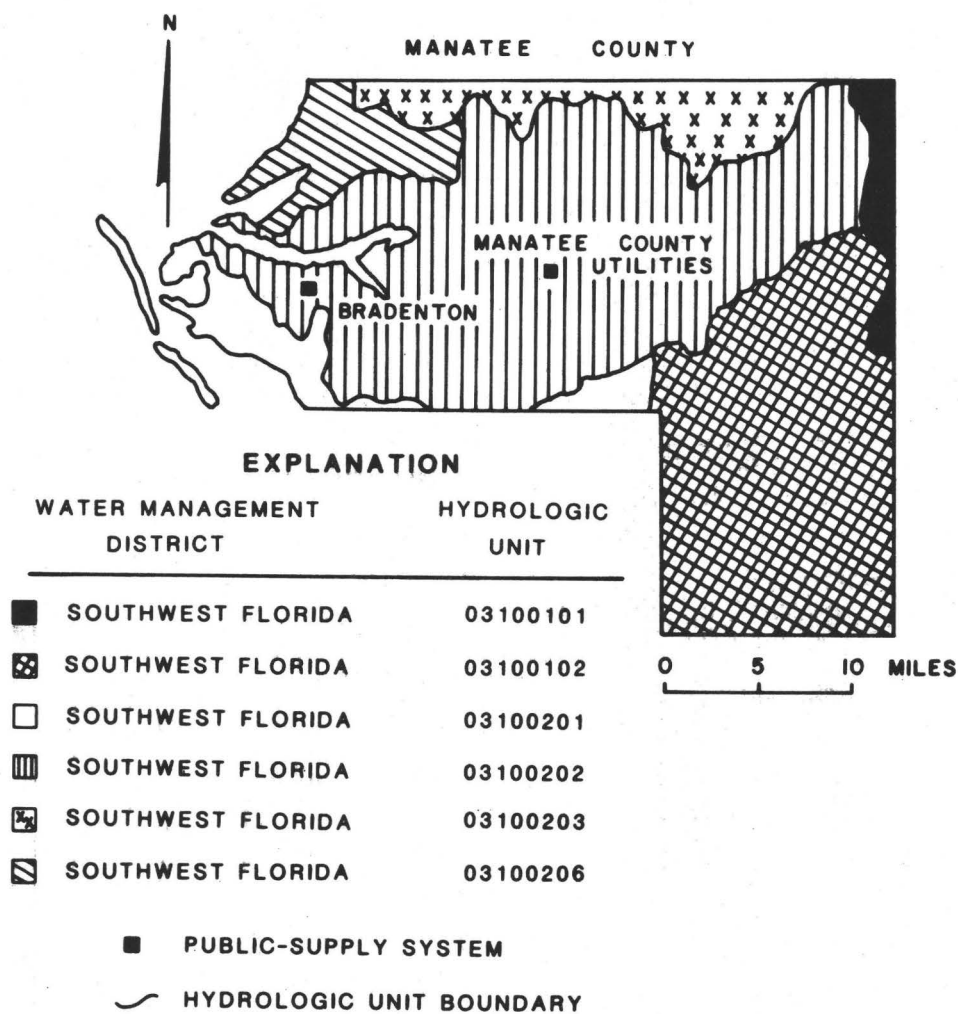
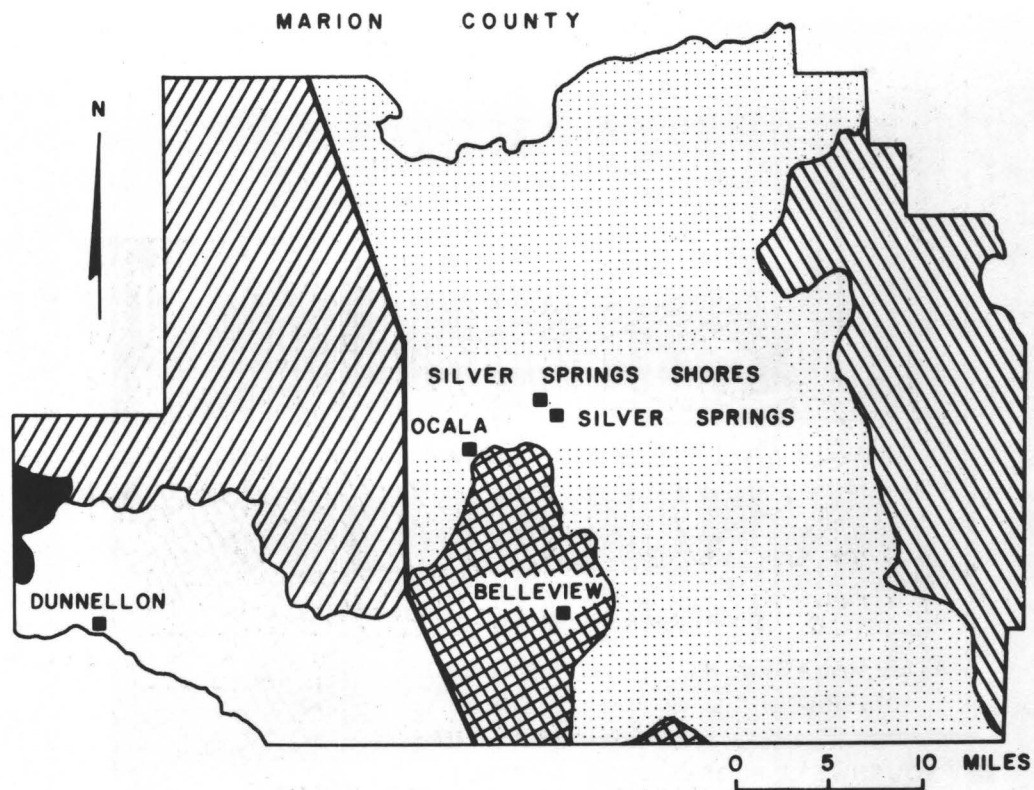


Figure 11.--Location of public-supply systems and hydrologic units in Manatee County.



#### EXPLANATION










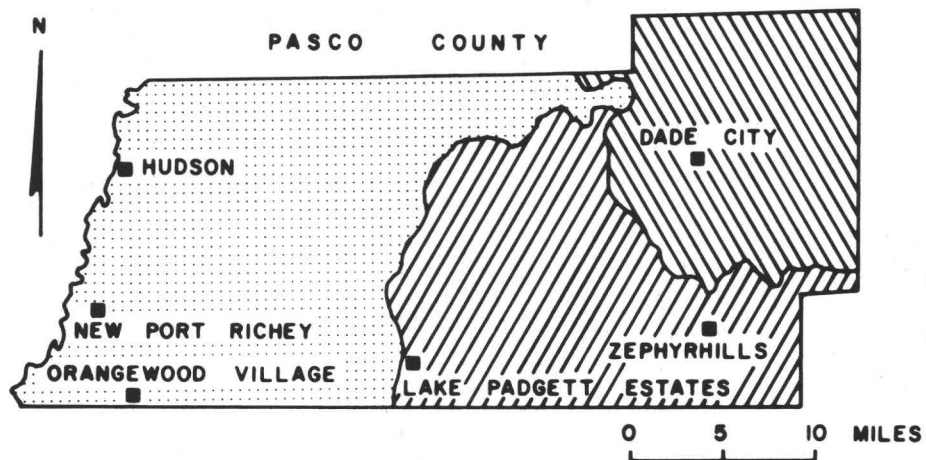
WATER MANAGEMENT DISTRICT	HYDROLOGIC UNIT
 SOUTHWEST FLORIDA	03080102
 SOUTHWEST FLORIDA	03100208
 SOUTHWEST FLORIDA	03110101
 ST. JOHNS RIVER	03080101
 ST. JOHNS RIVER	03080102
 ST. JOHNS RIVER	03100208
 PUBLIC-SUPPLY SYSTEM	
 WATER MANAGEMENT DISTRICT BOUNDARY	
 HYDROLOGIC UNIT BOUNDARY	

Figure 12.--Location of public-supply systems, water management districts, and hydrologic units in Marion County.



#### EXPLANATION

WATER MANAGEMENT DISTRICT	HYDROLOGIC UNIT
SOUTHWEST FLORIDA	03100205
SOUTHWEST FLORIDA	03100207
SOUTHWEST FLORIDA	03100208
PUBLIC-SUPPLY SYSTEM	
HYDROLOGIC UNIT BOUNDARY	

Figure 13.--Location of public-supply systems and hydrologic units in Pasco County.

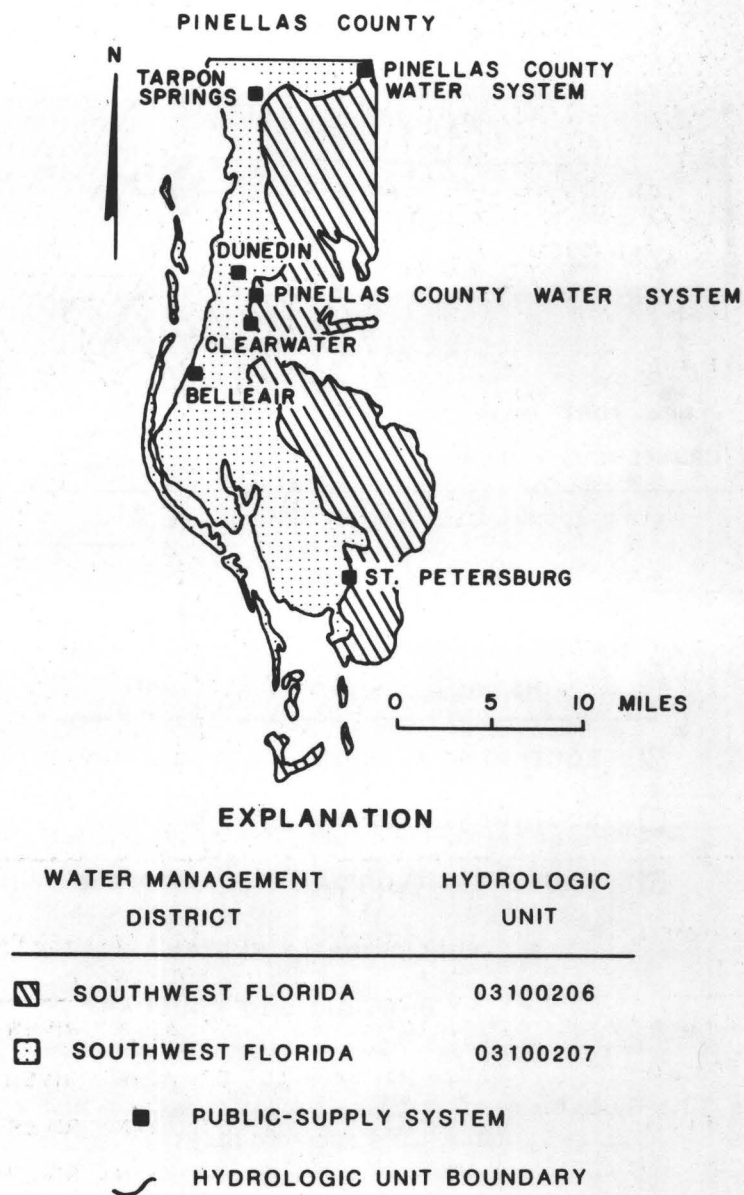
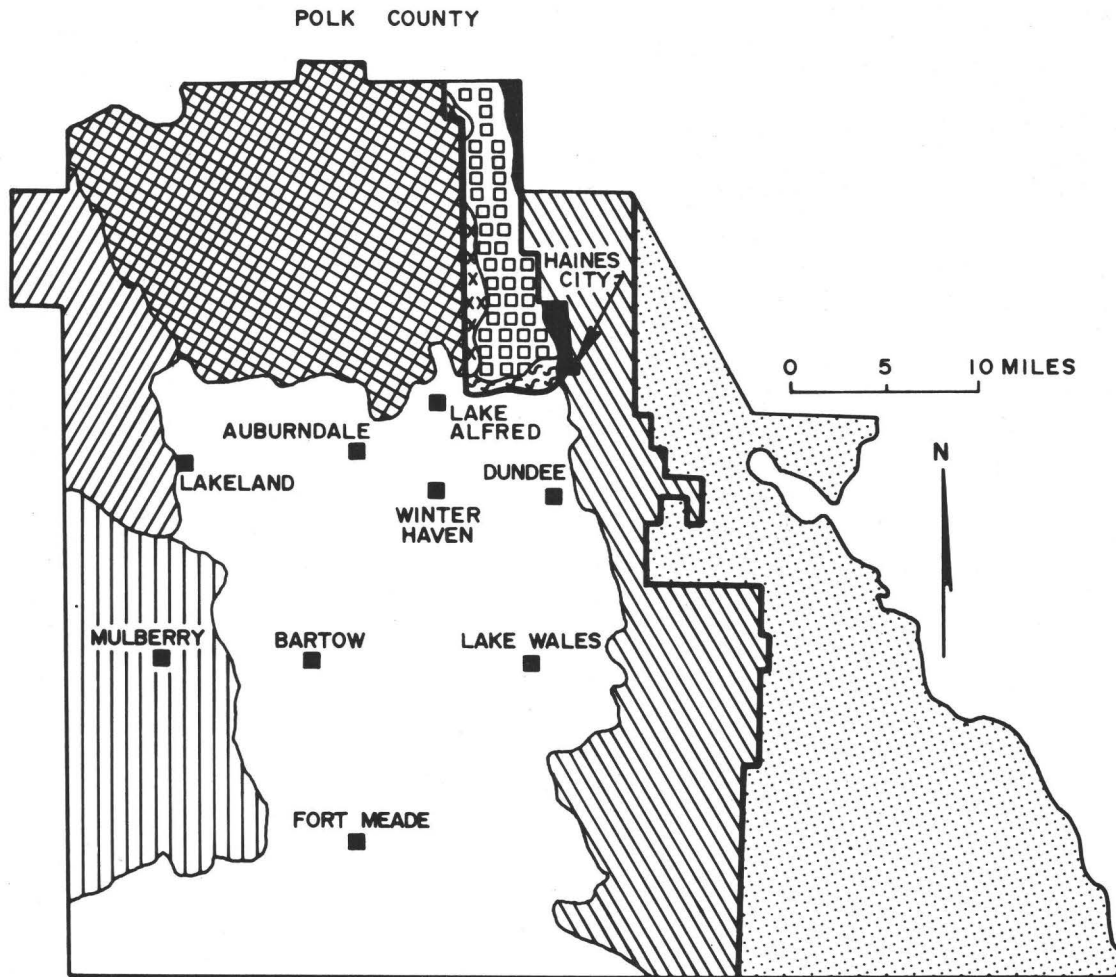


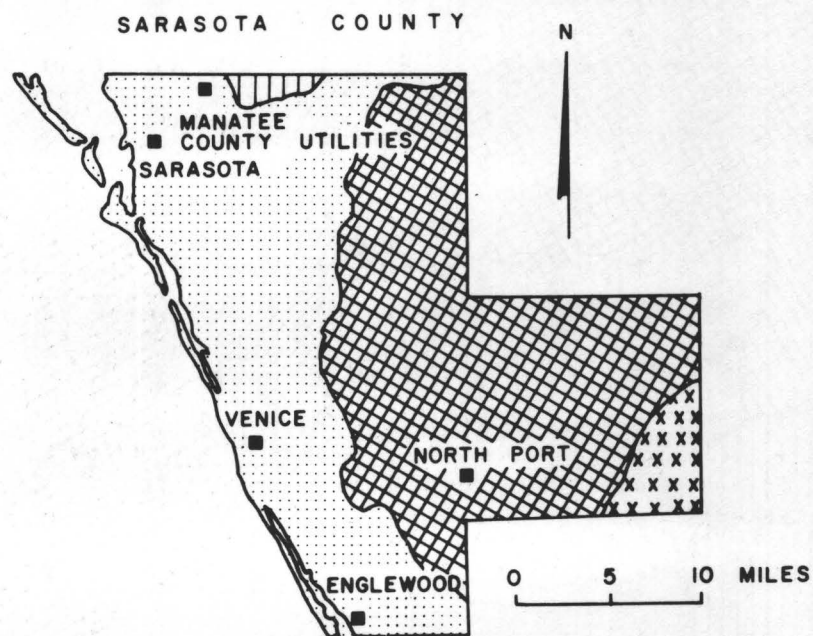
Figure 14.--Location of public-supply systems and hydrologic units in Pinellas County.



### EXPLANATION

WATER MANAGEMENT DISTRICT	HYDROLOGIC UNIT	WATER MANAGEMENT DISTRICT	HYDROLOGIC UNIT
SOUTHWEST FLORIDA	03090101	ST. JOHNS RIVER	03080102
SOUTHWEST FLORIDA	03100101	ST. JOHNS RIVER	03090101
SOUTHWEST FLORIDA	03100204	ST. JOHNS RIVER	03100101
SOUTHWEST FLORIDA	03100205	ST. JOHNS RIVER	03100208
SOUTHWEST FLORIDA	03100208	SOUTH FLORIDA	03090101
PUBLIC-SUPPLY SYSTEM			
WATER MANAGEMENT DISTRICT BOUNDARY			
HYDROLOGIC UNIT BOUNDARY			

Figure 15.--Location of public-supply systems, water management districts, and hydrologic units in Polk County.



#### EXPLANATION

WATER MANAGEMENT DISTRICT	HYDROLOGIC UNIT
SOUTHWEST FLORIDA	03100101
SOUTHWEST FLORIDA	03100102
SOUTHWEST FLORIDA	03100201
SOUTHWEST FLORIDA	03100202

PUBLIC-SUPPLY SYSTEM

HYDROLOGIC UNIT BOUNDARY

Figure 16.--Location of public-supply systems and hydrologic units in Sarasota County.

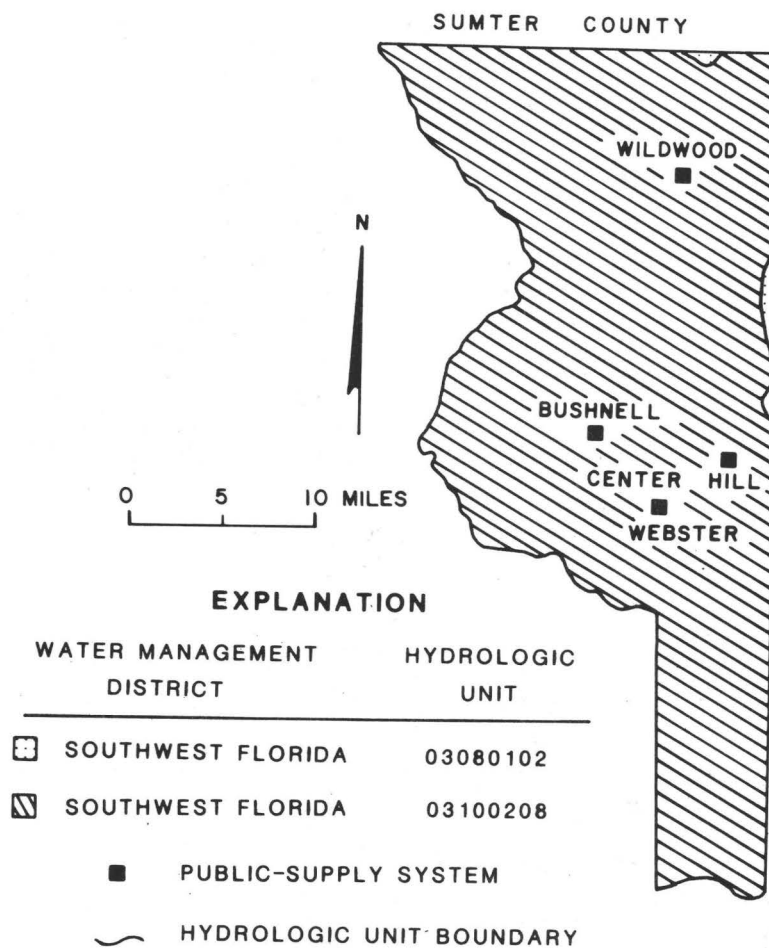


Figure 17.--Location of public-supply systems and hydrologic units in Sumter County.

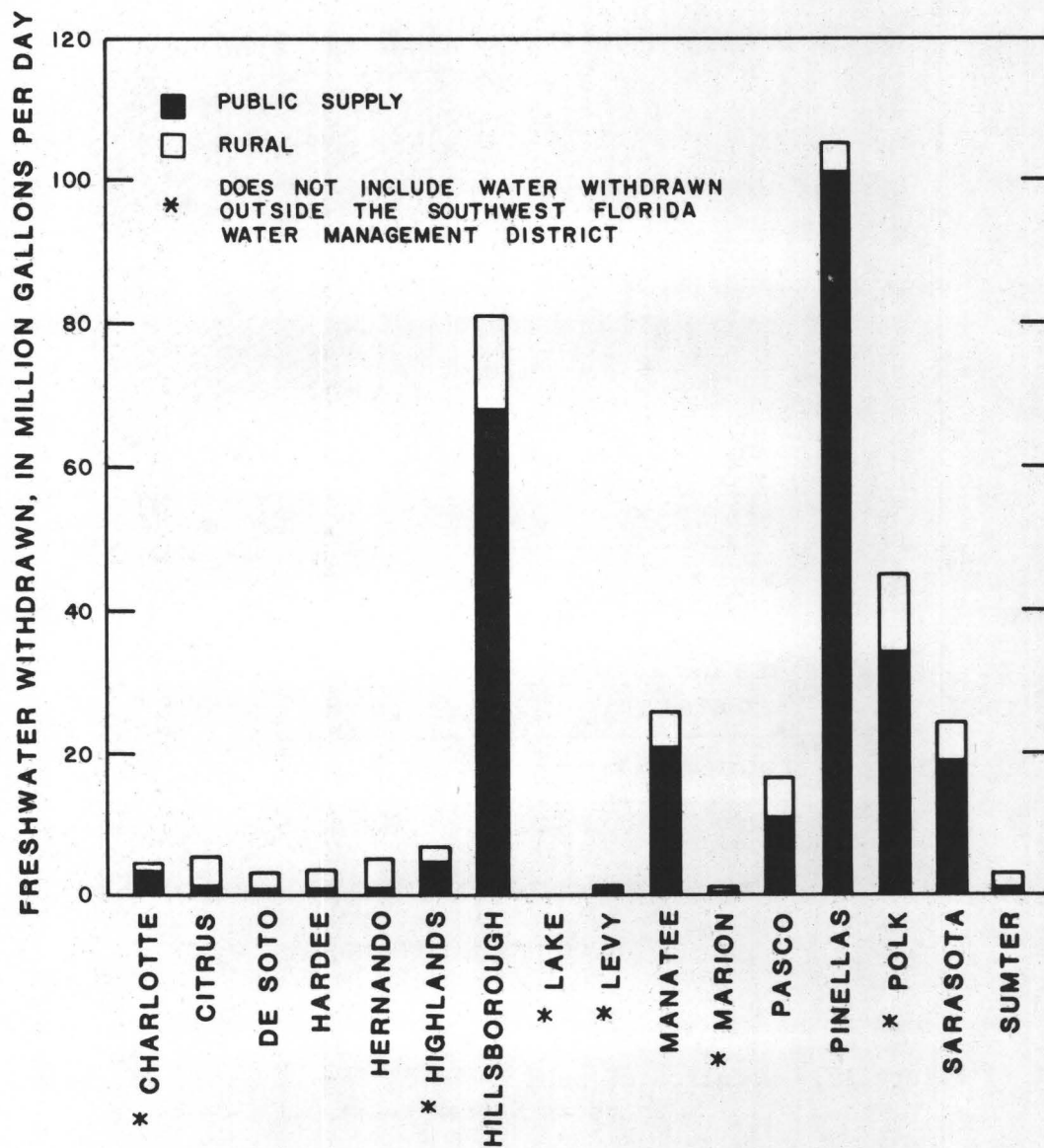


Figure 18.--Public supply and rural freshwater use by counties, 1979.

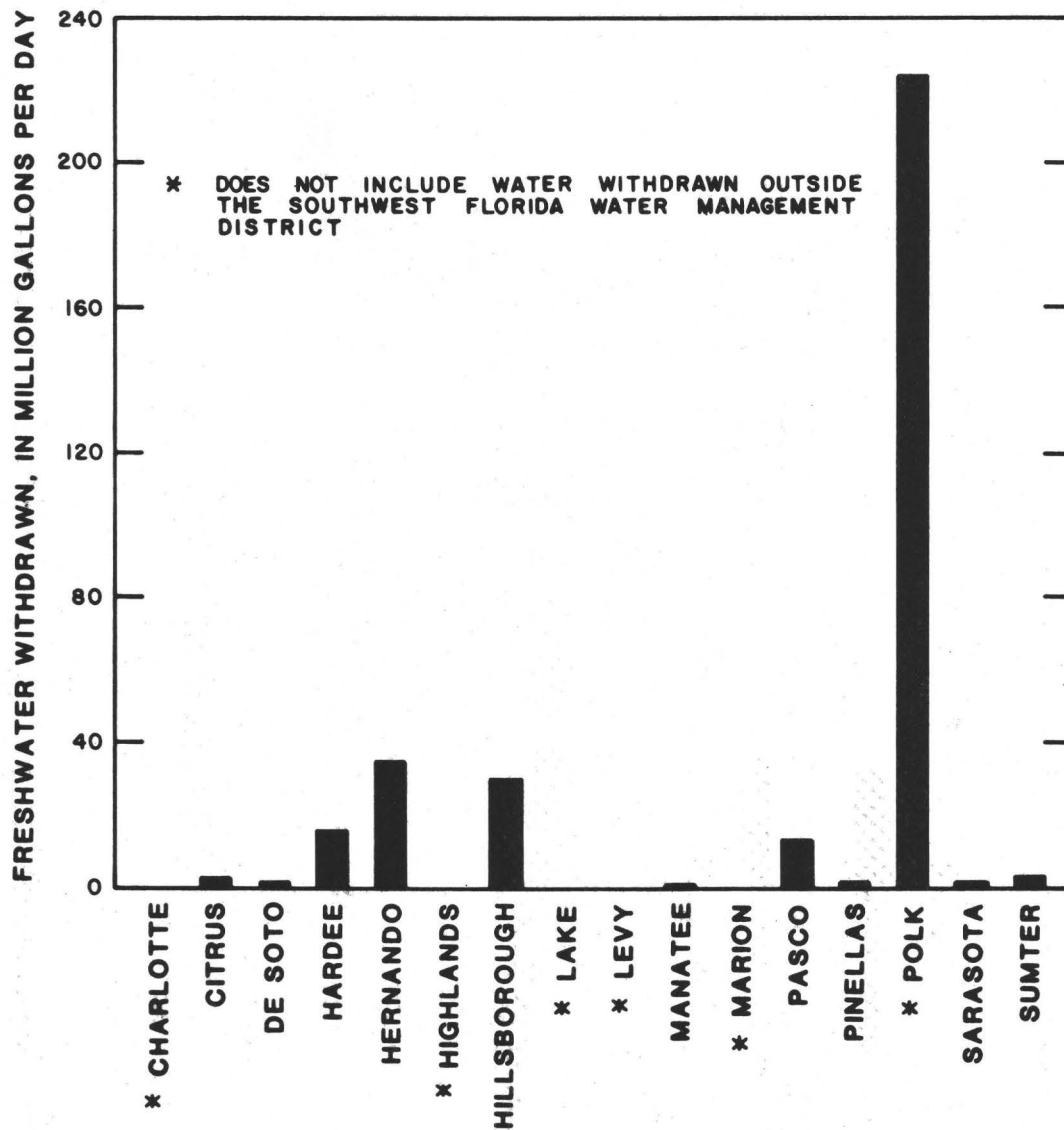


Figure 19.--Industrial freshwater use by counties, 1979.

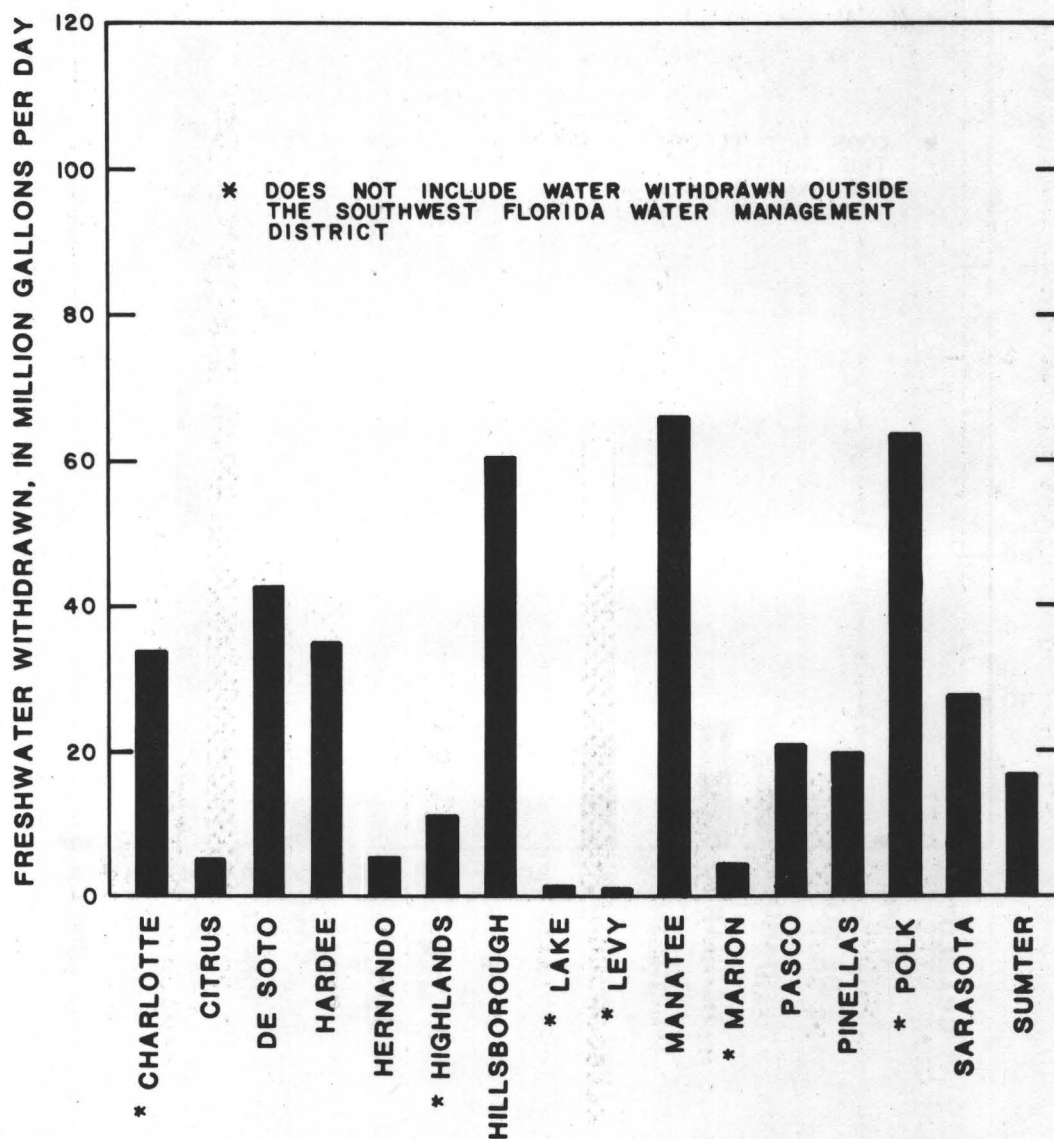


Figure 20.--Irrigation freshwater use by counties, 1979.

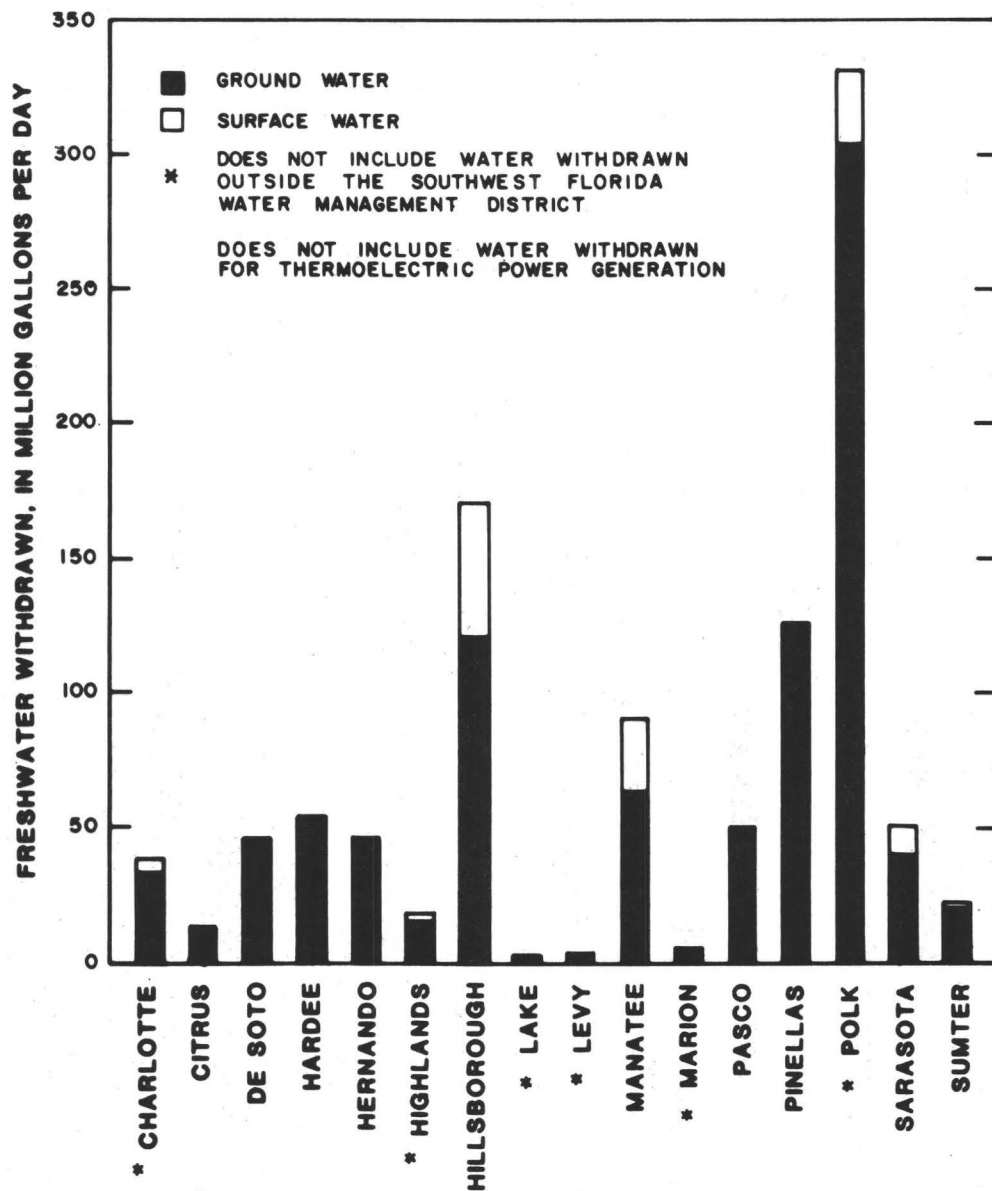


Figure 21.--Total freshwater use by counties, 1979.

TABLE 1--TOTAL WATER USE BY COUNTIES AND THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT, 1979

****WATER MANAGEMENT****				ALL WATER IS FRESHWATER EXCEPT AS NOTED:									
****DISTRICT CODES****				(a) INCLUDES 0.36 MGAL/D OF SALINE WATER									
SWM-SOUTHWEST FLORIDA SRM-SUWANNEE RIVER				(b) INCLUDES 51.97 MGAL/D OF SALINE WATER									
SFM-SOUTH FLORIDA SJM-ST JOHNS RIVER				(c) IS ALL SALINE WATER									
(WMDISTRICT: WATER MANAGEMENT DISTRICT)				(d) INCLUDES 25.11 MGAL/D IMPORTED FROM HILLSBOROUGH COUNTY AND 36.54 MGAL/D IMPORTED FROM PASCO COUNTY									
(GW-GROUND WATER;SW-SURFACE WATER)				(e) INCLUDES 6.60 MGAL/D IMPORTED FROM MANATEE COUNTY									
SUBTOTALS AND TOTALS INCLUDE BOTH FRESH AND SALINE WATER													
WATER WITHDRAWN FOR INDICATED PURPOSE IN MGAL/D													
COUNTY, WMDISTRICT, HYDROL. UNIT	PUBLIC SUPPLY		RURAL		INDUSTRIAL		IRRIGATION		POWER	SUBTOTAL		TOTAL	
	GW	SW	GW	SW	GW	SW	GW	SW	SW	GW	SW	GW+SW	
CHARLOTTE													
SFM-03090103	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00	
SFM-03090205	0.00	0.00	0.20	0.00	0.00	0.00	2.35	0.07	0.0	2.55	0.07	2.62	
SFM-03100101	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.0	0.07	0.00	0.07	
SFM-03100103	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00	
SWM-03090205	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.0	0.05	0.00	0.05	
SWM-03100101	0.00	3.31	0.13	0.00	0.00	0.00	19.34	0.60	0.0	19.47	3.91	23.38	
SWM-03100102	0.00	0.00	0.28	0.00	0.00	0.00	3.51	0.11	0.0	3.79	0.11	3.90	
SWM-03100103	0.00	0.72	0.03	0.00	0.00	0.00	8.82	0.27	0.0	8.85	0.99	9.84	
SWM-03100201	0.00	0.00	0.28	0.00	0.00	0.00	1.16	0.04	0.0	1.44	0.04	1.48	
(SWM) SUBTOTAL	0.00	4.03	0.77	0.00	0.00	0.00	32.83	1.02	0.0	33.60	5.05	38.65	
TOTAL	0.00	4.03	1.04	0.00	0.00	0.00	35.18	1.09	0.0	36.22	5.12	41.34	
CITRUS													
SWM-03100207	0.36	0.00	2.30	0.00	0.00	0.00	2.02	0.36	1897.0 <sup>c</sup>	4.68	1897.36	1902.04	
SWM-03100208	0.51	0.00	2.29	0.00	2.51	0.00	2.24	0.40	0.0	7.55	0.40	7.95	
(SWM) SUBTOTAL	0.87	0.00	4.59	0.00	2.51	0.00	4.26	0.76	1897.0	12.23	1897.76	1909.99	
TOTAL	0.87	0.00	4.59	0.00	2.51	0.00	4.26	0.76	1897.0	12.23	1897.76	1909.99	
DE SOTO													
SWM-03100101	0.71	0.00	2.26	0.00	0.72	0.00	41.24	1.28	0.0	44.93	1.28	46.21	
SWM-03100102	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00	
(SWM) SUBTOTAL	0.71	0.00	2.26	0.00	0.72	0.00	41.24	1.28	0.0	44.93	1.28	46.21	
TOTAL	0.71	0.00	2.26	0.00	0.72	0.00	41.24	1.28	0.0	44.93	1.28	46.21	

TABLE 1--TOTAL WATER USE BY COUNTIES AND THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT, 1979--CONTINUED

	WATER WITHDRAWN FOR INDICATED PURPOSE IN MGAL/D											
COUNTY, WMDISTRICT, HYDROL. UNIT	PUBLIC SUPPLY		RURAL		INDUSTRIAL		IRRIGATION		POWER	SUBTOTAL		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	SW	GW	SW	GW+SW
HARDEE												
SWM-03100101	1.24	0.00	2.26	0.00	15.95	0.00	34.82	0.00	0.0	54.27	0.00	54.27
SWM-03100102	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00
(SWM) SUBTOTAL	1.24	0.00	2.26	0.00	15.95	0.00	34.82	0.00	0.0	54.27	0.00	54.27
TOTAL	1.24	0.00	2.26	0.00	15.95	0.00	34.82	0.00	0.0	54.27	0.00	54.27
HERNANDO												
SWM-03100207	0.54	0.00	2.48	0.06	34.56	0.00	1.43	0.25	0.0	39.01	0.31	39.32
SWM-03100208	0.54	0.00	1.64	0.04	0.00	0.00	3.07	0.54	0.0	5.25	0.58	5.83
(SWM) SUBTOTAL	1.08	0.00	4.12	0.10	34.56	0.00	4.50	0.79	0.0	44.26	0.89	45.15
TOTAL	1.08	0.00	4.12	0.10	34.56	0.00	4.50	0.79	0.0	44.26	0.89	45.15
HIGHLANDS												
SFM-03090101	0.00	0.00	0.97	0.00	0.00	0.00	7.20	1.80	0.0	8.17	1.80	9.97
SFM-03090103	0.00	0.00	1.57	0.00	0.00	0.00	22.87	5.72	0.0	24.44	5.72	30.16
SFM-03100101	0.00	0.00	0.05	0.00	0.00	0.00	0.96	0.11	0.0	1.01	0.11	1.12
SWM-03090101	4.29	0.00	1.57	0.00	0.08	0.00	6.05	1.51	76.4	11.99	77.91	89.90
SWM-03090103	0.00	0.00	0.80	0.00	0.00	0.00	0.94	0.23	0.0	1.74	0.23	1.97
SWM-03100101	0.00	0.00	0.13	0.00	0.00	0.00	1.88	0.21	0.0	2.01	0.21	2.22
(SWM) SUBTOTAL	4.29	0.00	2.50	0.00	0.08	0.00	8.87	1.95	76.4	15.74	78.35	94.09
TOTAL	4.29	0.00	5.09	0.00	0.08	0.00	39.90	9.58	76.4	49.36	85.98	135.34
HILLSBOROUGH												
SWM-03100101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00
SWM-03100203	1.44	0.00	1.44	0.00	0.00	0.00	8.91	0.47	0.0	11.79	0.47	12.26
SWM-03100204	2.68	0.00	1.94	0.00	9.13	0.00	20.56	1.08	0.0	34.31	1.08	35.39
SWM-03100205	17.58	2.65	3.71	0.00	9.56 <sup>a</sup>	0.01	11.78	0.62	0.0	42.63	3.28	45.91
SWM-03100206	7.38	36.33	6.15	0.00	54.97 <sup>b</sup>	7.93	16.19	0.85	1854.5 <sup>c</sup>	84.69	1899.61	1984.30
SWM-03100207	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00
(SWM) SUBTOTAL	29.08	38.98	13.24	0.00	73.66	7.94	57.44	3.02	1854.5	173.42	1904.44	2077.86
TOTAL	29.08	38.98	13.24	0.00	73.66	7.94	57.44	3.02	1854.5	173.42	1904.44	2077.86

TABLE 1--TOTAL WATER USE BY COUNTIES AND THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT, 1979--CONTINUED

COUNTY, WMDISTRICT, HYDROL. UNIT	WATER WITHDRAWN FOR INDICATED PURPOSE IN MGAL/D											
	PUBLIC SUPPLY		RURAL		INDUSTRIAL		IRRIGATION		POWER	SUBTOTAL		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	SW	GW	SW	GW+SW
LAKE												
SJM-03080101	0.15	0.00	0.26	0.16	3.39	0.00	5.88	1.96	0.0	9.68	2.12	11.80
SJM-03080102	9.97	0.00	2.99	0.17	5.90	0.00	65.48	21.83	0.0	84.34	22.00	106.34
SJM-03090101	0.00	0.00	0.01	0.00	0.00	0.00	5.97	1.99	0.0	5.98	1.99	7.97
SJM-03100208	0.67	0.00	0.17	0.03	0.96	0.00	6.97	2.32	0.0	8.77	2.35	11.12
SWM-03100208	0.00	0.00	0.06	0.01	0.00	0.00	0.87	0.29	0.0	0.93	0.30	1.23
(SWM) SUBTOTAL	0.00	0.00	0.06	0.01	0.00	0.00	0.87	0.29	0.0	0.93	0.30	1.23
TOTAL	10.79	0.00	3.49	0.37	10.25	0.00	85.17	28.39	0.0	109.70	28.76	138.46
LEVY												
SRM-03110101	0.15	0.00	0.30	0.21	0.00	0.00	0.00	0.00	0.0	0.45	0.21	0.66
SRM-03110205	0.30	0.00	0.44	0.22	0.00	0.00	0.79	0.26	0.0	1.53	0.48	2.01
SWM-03080102	0.43	0.00	0.21	0.14	0.00	0.00	0.49	0.16	0.0	1.13	0.30	1.43
SWM-03100208	0.03	0.00	0.11	0.01	0.00	0.00	0.08	0.03	0.0	0.22	0.04	0.26
SWM-03110101	0.07	0.00	0.26	0.02	0.00	0.00	0.00	0.00	0.0	0.33	0.02	0.35
(SWM) SUBTOTAL	0.53	0.00	0.58	0.17	0.00	0.00	0.57	0.19	0.0	1.68	0.36	2.04
TOTAL	0.98	0.00	1.32	0.60	0.00	0.00	1.36	0.45	0.0	3.66	1.05	4.71
MANATEE												
SWM-03100101	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.02	0.0	0.15	0.02	0.17
SWM-03100102	0.00	0.00	1.58	0.14	0.00	0.00	7.29	0.81	0.0	8.87	0.95	9.82
SWM-03100201	0.00	5.00	0.69	0.01	0.00	0.00	6.50	0.72	0.0	7.19	5.73	12.92
SWM-03100202	0.00	8.88	0.69	0.01	0.20	0.00	24.18	2.69	9.8	25.07	21.38	46.45
SWM-03100203	0.00	1.70	0.81	0.08	0.00	0.00	12.96	1.44	0.0	13.77	3.22	16.99
SWM-03100206	0.00	5.00	0.95	0.04	0.00	0.00	8.27	0.92	0.0	9.22	5.96	15.18
(SWM) SUBTOTAL	0.00	20.58	4.72	0.28	0.20	0.00	59.35	6.60	9.8	64.27	37.26	101.53
TOTAL	0.00	20.58	4.72	0.28	0.20	0.00	59.35	6.60	9.8	64.27	37.26	101.53
MARION												
SJM-03080101	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.0	0.05	0.00	0.05
SJM-03080102	4.27	0.00	6.99	0.05	0.31	0.00	8.99	1.11	0.0	20.56	1.16	21.72
SJM-03100208	1.43	0.00	0.60	0.01	0.00	0.00	1.82	0.02	0.0	3.85	0.03	3.88
SWM-03080102	0.00	0.00	0.73	0.02	0.00	0.00	2.96	0.06	0.0	3.69	0.08	3.77
SWM-03100208	0.16	0.00	0.14	0.01	0.00	0.00	0.88	0.29	0.0	1.18	0.30	1.48

TABLE 1--TOTAL WATER USE BY COUNTIES AND THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT, 1979--CONTINUED

COUNTY, WMDISTRICT, HYDROL. UNIT	WATER WITHDRAWN FOR INDICATED PURPOSE IN MGAL/D											
	PUBLIC SUPPLY		RURAL		INDUSTRIAL		IRRIGATION		POWER	SUBTOTAL		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	SW	GW	SW	GW+SW
(SWM) SUBTOTAL	0.16	0.00	0.87	0.03	0.00	0.00	3.84	0.35	0.0	4.87	0.38	5.25
TOTAL	5.86	0.00	8.51	0.09	0.31	0.00	14.65	1.48	0.0	29.33	1.57	30.90
PASCO												
SWM-03100205	1.11	0.00	1.11	0.00	0.03	0.00	7.69	0.00	0.0	9.94	0.00	9.94
SWM-03100207	8.47	0.00	3.27	0.00	4.11	0.00	8.66	0.00	1339.0 <sup>c</sup>	24.51	1339.00	1363.51
SWM-03100208	1.31	0.00	1.33	0.00	8.89	0.00	4.32	0.00	0.0	15.85	0.00	15.85
(SWM) SUBTOTAL	10.89	0.00	5.71	0.00	13.03	0.00	20.67	0.00	1339.0	50.30	1339.00	1389.30
TOTAL	10.89	0.00	5.71	0.00	13.03	0.00	20.67	0.00	1339.0	50.30	1339.00	1389.30
PINELLAS												
SWM-03100206	41.59	0.00	1.83	0.00	0.00	0.00	7.14	0.00	796.0 <sup>c</sup>	50.56	796.00	846.56
SWM-03100207	59.92	0.00	1.84	0.00	1.00	0.00	12.57	0.00	0.0	75.33	0.00	75.33
(SWM) SUBTOTAL	101.51 <sup>d</sup>	0.00	3.67	0.00	1.00	0.00	19.71	0.00	796.0	125.89	796.00	921.89
TOTAL	101.51	0.00	3.67	0.00	1.00	0.00	19.71	0.00	796.0	125.89	796.00	921.89
POLK												
SFM-03090101	0.00	0.00	1.98	0.00	0.00	0.00	3.57	0.19	0.0	5.55	0.19	5.74
SJM-03080102	0.00	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.0	0.38	0.00	0.38
SJM-03090101	0.89	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.0	1.15	0.00	1.15
SJM-03100101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00
SJM-03100208	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00
SWM-03090101	2.58	0.00	2.20	0.00	0.00	0.00	15.17	0.80	0.0	19.95	0.80	20.75
SWM-03100101	25.58	0.00	6.01	0.00	176.71	23.57	33.10	1.74	221.6	241.40	246.91	488.31
SWM-03100204	0.41	0.00	1.31	0.00	23.20	0.00	1.69	0.09	0.0	26.61	0.09	26.70
SWM-03100205	5.40	0.00	0.65	0.00	0.00	0.00	2.81	0.15	0.0	8.86	0.15	9.01
SWM-03100208	0.00	0.00	0.69	0.00	0.00	0.00	7.65	0.40	0.0	8.34	0.40	8.74
(SWM) SUBTOTAL	33.97	0.00	10.86	0.00	199.91	23.57	60.42	3.18	221.6	305.16	248.35	553.51
TOTAL	34.86	0.00	13.48	0.00	199.91	23.57	63.99	3.37	221.6	312.24	248.54	560.78
SARASOTA												
SWM-03100101	0.00	0.00	0.12	0.00	0.01	0.00	0.00	0.00	0.0	0.13	0.00	0.13
SWM-03100102	0.00	1.85	0.98	0.08	0.00	0.00	7.48	0.83	0.0	8.46	2.76	11.22
SWM-03100201	9.86	6.60	4.27	0.03	0.32	0.00	17.23	1.91	0.0	31.68	8.54	40.22
SWM-03100202	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.0	0.18	0.00	0.18

TABLE 1--TOTAL WATER USE BY COUNTIES AND THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT, 1979--CONTINUED

COUNTY, WMDISTRICT, HYDROL. UNIT	WATER WITHDRAWN FOR INDICATED PURPOSE IN MGAL/D											
	PUBLIC SUPPLY		RURAL		INDUSTRIAL		IRRIGATION		POWER	SUBTOTAL		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	SW	GW	SW	GW+SW
(SWM) SUBTOTAL	9.86	8.45 <sup>e</sup>	5.55	0.11	0.33	0.00	24.71	2.74	0.0	40.45	11.30	51.75
TOTAL	9.86	8.45	5.55	0.11	0.33	0.00	24.71	2.74	0.0	40.45	11.30	51.75
SUMTER												
SWM-03080102	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00
SWM-03100208	0.76	0.00	2.33	0.00	2.32	0.00	15.83	0.83	0.0	21.24	0.83	22.07
(SWM) SUBTOTAL	0.76	0.00	2.33	0.00	2.32	0.00	15.83	0.83	0.0	21.24	0.83	22.07
TOTAL	0.76	0.00	2.33	0.00	2.32	0.00	15.83	0.83	0.0	21.24	0.83	22.07
SWM TOTAL	194.95	72.04	64.09	0.70	344.27	31.51	389.93	23.00	6194.3	993.24	6321.55	7314.79
GRAND TOTAL	212.78	72.04	81.38	1.55	354.83	31.51	522.78	60.38	6194.3	1171.77	6359.78	7531.55

## PUBLIC-SUPPLY WATER USE

The public-supply water-use category includes all water distributed by public-supply water systems to households, industry, agriculture, and other users. Data were supplied by system operators. Table 2 lists the major public-supply systems by counties and by water management districts. Water withdrawn and population served are presented for each public-supply system. Locations of public-supply systems are shown in figures 2-17. Locations show approximate centers of water use but do not necessarily show withdrawal points.

Water withdrawn for public supply in the Southwest Florida Water Management District in 1979 totaled 267 Mgal/d (table 2). All water was freshwater and included 195 Mgal/d of ground water and 72 Mgal/d of surface water. The largest public-supply system was the city of Tampa, which used 13 Mgal/d of ground water and 39 Mgal/d of surface water. The largest county user for public supply was Pinellas County, using 102 Mgal/d.

Monthly and average daily pumpage for public supply from selected well fields in Hillsborough, Pasco, and Pinellas Counties are shown in table 3. Well-field locations are shown in figure 22. The largest average daily pumpage, 34 Mgal/d, was from the Eldridge-Wilde well field operated by Pinellas County Water System and located in Hillsborough and Pinellas Counties.

## RURAL WATER USE

The rural water-use category includes both domestic and livestock freshwater use. In this report, domestic water use includes all water used by households that are not supplied by a public-supply water system listed in table 2. This includes households having their own water supply and households that are supplied by small public-supply systems. All domestic water was assumed to be fresh ground water and was estimated based on population and an average per capita water use of 100 gal/d per person. The rural population was assumed to be the difference between total population and population served by a public-supply system.

Livestock water use includes drinking and washing water for commercially raised animals. Water use was estimated on the basis of a fixed rate of water use per head for each kind of animal. Rates ranged from 0.1 gal/d for chickens to 150 gal/d, including 120 gal/d wash-up water, for dairy cows (University of Florida, 1979). Estimates of livestock populations were obtained from the County Extension Service.

Water withdrawn for rural use in the Southwest Florida Water Management District in 1979 totaled 65 Mgal/d (table 4). All water was freshwater and included 64 Mgal/d of ground water and about 1 Mgal/d of surface water. Rural water use and population data are listed by county, water management district, and hydrologic unit in table 4. The largest user of rural water in the Southwest Florida Water Management District was Hillsborough County, which used 13 Mgal/d. Polk County rural water use was about 13 Mgal/d, but about 3 Mgal/d of that amount was used outside the Southwest Florida Water Management District boundary.

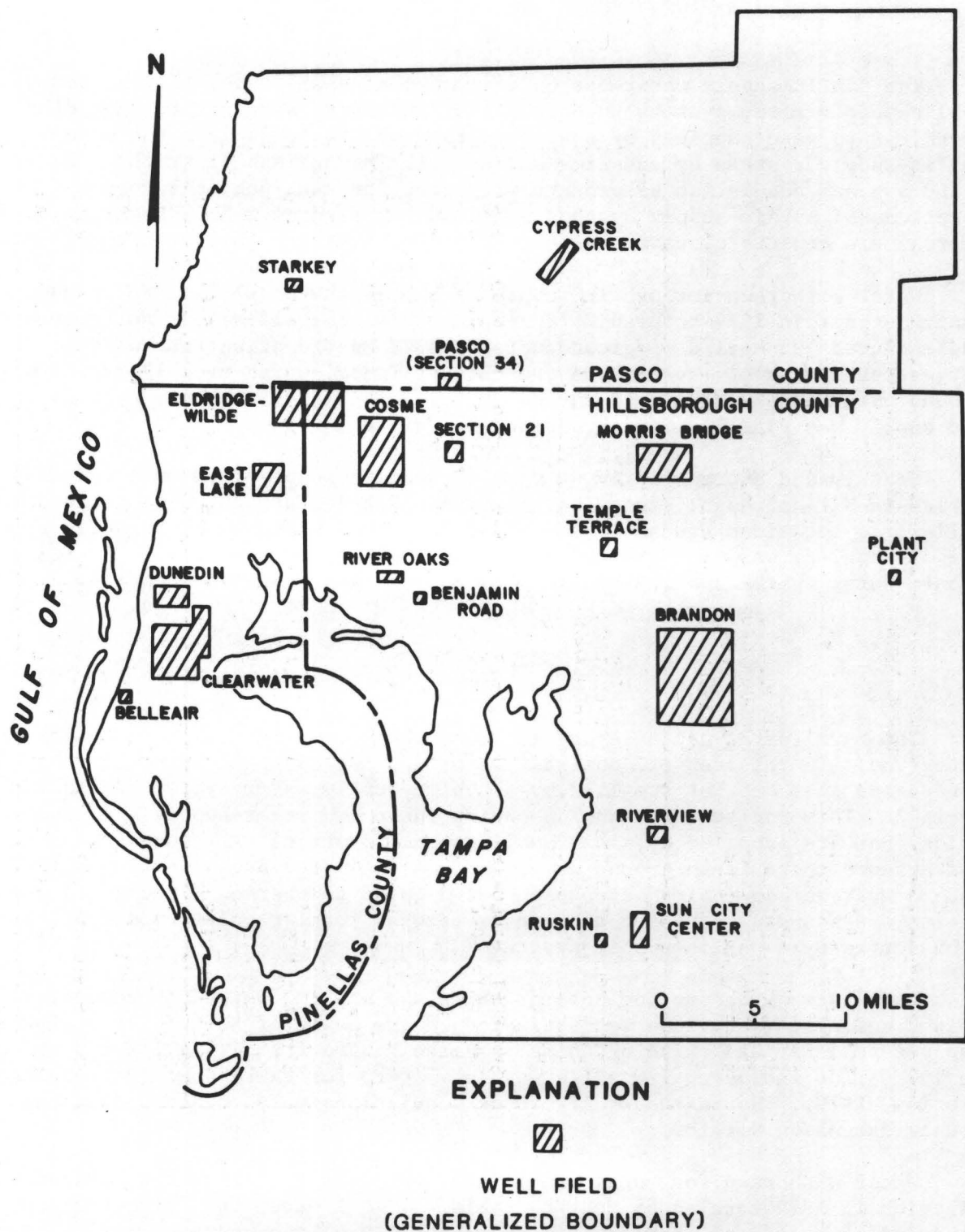


Figure 22.--Location of selected well fields in Hillsborough, Pasco, and Pinellas Counties.

TABLE 2.--PUBLIC-SUPPLY WATER USE BY COUNTIES, 1979

***WATER MANAGEMENT*** ***DISTRICT CODES***		POPULATION SERVED (GW-GROUND WATER) (SW-SURFACE WATER)		WATER WITHDRAWN (GW-GROUND WATER) (SW-SURFACE WATER)	
SWM-SOUTHWEST FLORIDA SFM-SOUTH FLORIDA SRM-SUWANNEE RIVER SJM-ST JOHNS RIVER		(a) INCLUDES 25.11 MGAL/D IMPORTED FROM HILLS- BOROUGH COUNTY AND 36.54 MGAL/D IMPORTED FROM PASCO COUNTY. (b) INCLUDES 6.60 MGAL/D IMPORTED FROM MANATEE COUNTY.			
COUNTY, WATER MANAGEMENT DIS- TRICT, SYSTEM NAME	TOTAL POPULATION (THOUSANDS)	POPULATION SERVED (THOUSANDS) GW SW		WATER WITHDRAWN IN MGAL/D GW SW	
CHARLOTTE					
SWM-PORT CHARLOTTE	36.0	0.0	36.0	0.00	1.97
SWM-PUNTA GORDA	8.0	0.0	13.4	0.00	2.06
(SWM) SUBTOTAL	44.0	0.0	49.4	0.00	4.03
TOTAL FOR CHARLOTTE	44.0	0.0	49.4	0.00	4.03
CITRUS					
SWM-CRYSTAL RIVER	3.1	3.1	0.0	0.36	0.00
SWM-INVERNESS	3.4	3.4	0.0	0.51	0.00
(SWM) SUBTOTAL	6.5	6.5	0.0	0.87	0.00
TOTAL FOR CITRUS	6.5	6.5	0.0	0.87	0.00
DE SOTO					
SWM-ARCADIA	6.1	7.0	0.0	0.71	0.00
(SWM) SUBTOTAL	6.1	7.0	0.0	0.71	0.00
TOTAL FOR DE SOTO	6.1	7.0	0.0	0.71	0.00
HARDEE					
SWM-BOWLING GREEN	1.8	1.6	0.0	0.35	0.00
SWM-WAUCHULA	3.5	4.5	0.0	0.79	0.00
SWM-ZOLFO SPRINGS	1.3	1.3	0.0	0.10	0.00

TABLE 2.--PUBLIC-SUPPLY WATER USE BY COUNTIES, 1979--CONTINUED

COUNTY, WATER MANAGEMENT DIS- TRICT, SYSTEM NAME	TOTAL POPULATION (THOUSANDS)	POPULATION SERVED (THOUSANDS)		WATER WITHDRAWN IN MGAL/D	
		GW	SW	GW	SW
(SWM) SUBTOTAL	6.6	7.4	0.0	1.24	0.00
TOTAL FOR HARDEE	6.6	7.4	0.0	1.24	0.00
HERNANDO					
SWM-BROOKSVILLE	6.2	6.2	0.0	1.08	0.00
(SWM) SUBTOTAL	6.2	6.2	0.0	1.08	0.00
TOTAL FOR HERNANDO	6.2	6.2	0.0	1.08	0.00
HIGHLANDS					
SWM-AVON PARK	8.1	9.6	0.0	1.23	0.00
SWM-LAKE PLACID	0.9	1.8	0.0	0.21	0.00
SWM-SEBRING	9.0	14.8	0.0	2.85	0.00
(SWM) SUBTOTAL	18.0	26.2	0.0	4.29	0.00
TOTAL FOR HIGHLANDS	18.0	26.2	0.0	4.29	0.00
HILLSBOROUGH					
SWM-BENJAMIN ROAD	7.5	7.5	0.0	0.96	0.00
SWM-BRANDON	34.0	34.0	0.0	6.18	0.00
SWM-PLANT CITY	16.0	22.0	0.0	2.03	0.00
SWM-RIVER OAKS	8.5	8.5	0.0	1.05	0.00
SWM-RIVERVIEW	10.0	10.0	0.0	1.86	0.00
SWM-RUSKIN	3.5	3.5	0.0	0.35	0.00
SWM-SUN CITY CENTER	6.5	6.5	0.0	1.72	0.00
SWM-TAMPA	275.7	112.3	337.7	12.90	38.98
SWM-TEMPLE TERRACE	11.1	11.1	0.0	2.03	0.00
(SWM) SUBTOTAL	372.8	215.4	337.7	29.08	38.98
TOTAL FOR HILLSBOROUGH	372.8	215.4	337.7	29.08	38.98
LAKE					
SJM-ASTOR-ASTOR PARK	0.0	2.1	0.0	0.15	0.00
SJM-CLERMONT	5.6	5.4	0.0	1.01	0.00
SJM-EUSTIS	8.4	10.0	0.0	1.64	0.00
SJM-FRUITLAND PARK	2.1	2.3	0.0	0.33	0.00
SJM-GROVELAND	2.2	2.2	0.0	0.38	0.00
SJM-LADY LAKE	1.0	1.0	0.0	0.10	0.00
SJM-LEESBURG	14.2	16.6	0.0	3.37	0.00
SJM-MASCOTTE	1.6	1.5	0.0	0.19	0.00

TABLE 2.--PUBLIC-SUPPLY WATER USE BY COUNTIES,1979--CONTINUED

COUNTY, WATER MANAGEMENT DIS- TRICT, SYSTEM NAME	TOTAL POPULATION (THOUSANDS)	POPULATION SERVED (THOUSANDS)		WATER WITHDRAWN IN MGAL/D	
		GW	SW	GW	SW
SJM-MINNEOLA	1.0	1.0	0.0	0.10	0.00
SJM-MOUNT DORA	6.6	8.0	0.0	2.19	0.00
SJM-SOUTHERN STATES UTIL	0.0	3.3	0.0	0.22	0.00
SJM-TAVARES	4.5	8.0	0.0	0.76	0.00
SJM-UMATILLA	1.9	2.1	0.0	0.35	0.00
(SJM)SUBTOTAL	0.0	0.0	0.0	0.00	0.00
TOTAL FOR LAKE	49.1	63.5	0.0	10.79	0.00
LEVY					
SRM-BRONSON	0.4	0.4	0.0	0.03	0.00
SRM-CEDAR KEY	1.0	1.0	0.0	0.12	0.00
SRM-CHIEFLAND	2.1	2.1	0.0	0.30	0.00
SWM-BRONSON	0.5	0.5	0.0	0.04	0.00
SWM-WILLISTON	2.1	2.1	0.0	0.43	0.00
SWM-YANKEETOWN	0.6	0.6	0.0	0.06	0.00
(SWM)SUBTOTAL	3.2	3.2	0.0	0.53	0.00
TOTAL FOR LEVY	6.7	6.7	0.0	0.98	0.00
MANATEE					
SWM-BRADENTON	29.8	0.0	19.6	0.00	3.88
SWM-MANATEE CO UTILITIES	0.0	0.0	100.0	0.00	16.70
(SWM)SUBTOTAL	29.8	0.0	119.6	0.00	20.58
TOTAL FOR MANATEE	29.8	0.0	119.6	0.00	20.58
MARION					
SJM-BELLEVUE	1.5	3.2	0.0	0.23	0.00
SJM-OCALA	34.0	30.0	0.0	4.81	0.00
SJM-SILVER SPRINGS	0.4	0.4	0.0	0.07	0.00
SJM-SILVER SPRINGS SHORES	0.0	3.9	0.0	0.59	0.00
SWM-DUNNELLON	1.3	1.2	0.0	0.16	0.00
(SWM)SUBTOTAL	1.3	1.2	0.0	0.16	0.00
TOTAL FOR MARION	37.2	38.7	0.0	5.86	0.00
PASCO					
SWM-DADE CITY	4.6	10.6	0.0	1.31	0.00
SWM-HUDSON	4.0	4.0	0.0	0.49	0.00
SWM-LAKE PADGETT ESTATES	0.8	0.8	0.0	0.19	0.00
SWM-NEW PORT RICHEY	9.3	18.3	0.0	2.75	0.00
SWM-ORANGEWOOD VILLAGE	1.3	1.3	0.0	0.23	0.00

TABLE 2.--PUBLIC-SUPPLY WATER USE BY COUNTIES, 1979--CONTINUED

COUNTY, WATER MANAGEMENT DIS- TRICT, SYSTEM NAME	TOTAL POPULATION (THOUSANDS)	POPULATION SERVED (THOUSANDS)		WATER WITHDRAWN IN MGAL/D	
		GW	SW	GW	SW
SWM-PINELLAS CO WATER SYS	0.0	80.0	0.0	5.00	0.00
SWM-ZEPHYRHILLS	5.0	8.0	0.0	0.92	0.00
(SWM) SUBTOTAL	25.0	123.0	0.0	10.89	0.00
TOTAL FOR PASCO	25.0	123.0	0.0	10.89	0.00
PINELLAS					
SWM-BELLEAIR	3.7	3.7	0.0	0.81	0.00
SWM-CLEARWATER	82.9	67.0	0.0	8.83	0.00
SWM-DUNEDIN	29.4	29.4	0.0	3.84	0.00
SWM-PINELLAS CO WATER SYS	0.0	324.4	0.0	49.74	0.00
SWM-ST PETERSBURG	240.4	269.7	0.0	38.08	0.00
SWM-TARPON SPRINGS	13.0	1.3	0.0	0.21	0.00
(SWM) SUBTOTAL	369.4	695.5	0.0	101.51 <sup>a</sup>	0.00
TOTAL FOR PINELLAS	369.4	695.5	0.0	101.51	0.00
POLK					
SJM-HAINES CITY	4.9	6.1	0.0	0.89	0.00
SWM-AUBURNDALE	6.2	14.0	0.0	1.40	0.00
SWM-BARTOW	13.9	16.7	0.0	2.49	0.00
SWM-DUNDEE	2.3	2.3	0.0	0.40	0.00
SWM-FORT MEADE	4.7	4.7	0.0	0.82	0.00
SWM-HAINES CITY	4.9	6.1	0.0	0.88	0.00
SWM-LAKE ALFREID	3.4	3.4	0.0	0.59	0.00
SWM-LAKE WALES	9.2	11.8	0.0	3.40	0.00
SWM-LAKELAND	46.7	89.0	0.0	18.00	0.00
SWM-MULBERRY	2.7	2.7	0.0	0.41	0.00
SWM-WINTER HAVEN	20.1	25.5	0.0	5.58	0.00
(SWM) SUBTOTAL	114.1	176.2	0.0	33.97	0.00
TOTAL FOR POLK	119.0	182.3	0.0	34.86	0.00
SARASOTA					
SWM-ENGLEWOOD	24.0	24.0	0.0	1.25	0.00
SWM-MANATEE CO UTILITIES	0.0	0.0	40.0	0.00	6.60
SWM-NORTH PORT	5.3	0.0	13.0	0.00	1.85
SWM-SARASOTA	51.0	51.0	0.0	7.00	0.00
SWM-VENICE	12.2	12.2	0.0	1.61	0.00

TABLE 2.--PUBLIC-SUPPLY WATER USE BY COUNTIES, 1979--CONTINUED

COUNTY, WATER MANAGEMENT DIS- TRICT, SYSTEM NAME	TOTAL POPULATION (THOUSANDS)	POPULATION SERVED (THOUSANDS)		WATER WITHDRAWN IN MGAL/D	
		GW	SW	GW	SW
(SWM) SUBTOTAL	92.5	87.2	53.0	9.86	8.45 <sup>b</sup>
TOTAL FOR SARASOTA	92.5	87.2	53.0	9.86	8.45
SUMTER					
SWM-BUSHNELL	1.0	0.9	0.0	0.18	0.00
SWM-CENTER HILL	0.7	0.4	0.0	0.08	0.00
SWM-WEBSTER	0.8	0.7	0.0	0.07	0.00
SWM-WILDWOOD	2.7	3.7	0.0	0.43	0.00
(SWM) SUBTOTAL	5.2	5.7	0.0	0.76	0.00
TOTAL FOR SUMTER	5.2	5.7	0.0	0.76	0.00
SWM TOTAL	1100.7	1360.7	559.7	194.95	72.04
GRAND TOTAL	1194.1	1471.3	559.7	212.78	72.04

Table 3.--Monthly pumpage in selected well fields in Hillsborough, Pasco, and Pinellas Counties, 1979

Operating agency: WCRWSA, West Coast Regional Water Supply Authority.

County: H, Hillsborough; Pa, Pasco, Pi, Pinellas.

Average daily: Total pumpage divided by 365.

Well field	Operating agency	County	Ground water withdrawn, in Mgal/d												Average daily
			Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Belleair	Belleair	Pi	0.60	0.65	0.76	1.09	0.77	1.26	1.06	0.60	0.54	0.84	0.91	0.74	0.81
Clearwater	Clearwater	Pi	8.92	9.31	9.41	9.71	9.78	9.95	9.70	9.48	8.33	6.93	7.39	7.05	8.83
Dunedin	Dunedin	Pi	3.63	3.68	3.88	4.85	3.96	5.04	4.01	3.25	2.91	3.50	3.83	3.54	3.84
East Lake	Pinellas Co.	Pi	0	0	0	2.00	1.61	2.47	1.73	1.43	0	0	0	0	.77
Eldridge-Wilde	Pinellas Co.	Pi	16.17	20.15	24.48	29.75	21.83	30.95	27.60	34.90	18.46	27.11	29.21	24.19	25.40
Eldridge-Wilde	Pinellas Co.	H	5.39	6.71	8.15	9.92	7.28	10.31	9.20	11.63	6.15	9.03	9.73	8.02	8.46
Eldridge-Wilde	Pinellas Co.	Pi & H	21.56	26.86	32.63	39.67	29.11	41.26	36.80	46.53	24.61	36.14	38.94	32.21	33.86
Cosme	St. Petersburg	H	6.12	9.11	9.28	10.95	10.42	12.49	7.06	5.83	4.52	7.63	6.93	5.78	8.01
Section 21	St. Petersburg	H	7.73	7.86	8.93	10.25	8.76	9.86	10.47	8.29	7.50	7.51	8.89	7.63	8.64
Temple Terrace	Temple Terrace	H	1.44	1.78	2.00	2.95	2.16	2.48	1.94	1.70	1.77	2.07	2.07	2.00	2.03
Plant City	Plant City	H	1.69	1.91	2.04	2.60	2.00	2.71	2.08	1.98	1.71	1.93	2.00	1.71	2.03
Morris Bridge	Tampa	H	6.20	8.60	9.50	17.00	15.60	20.10	14.00	8.60	11.70	14.00	14.70	14.80	12.90
Brandon	Hillsborough Co.	H	4.12	4.83	5.92	8.67	6.61	8.21	6.15	5.77	5.45	6.75	6.11	5.57	6.18
Riverview	Hillsborough Co.	H	2.06	2.02	2.06	2.82	2.03	2.57	2.00	1.64	1.58	1.45	1.13	.96	1.86
Ruskin	Hillsborough Co.	H	.31	.34	.36	.44	.36	.42	.33	.30	.32	.33	.39	.35	.35
Sun City Center	Hillsborough Co.	H	1.11	1.54	1.79	2.45	1.57	2.28	1.65	1.37	1.00	2.05	2.06	1.77	1.72
Benjamin Road	Hillsborough Co.	H	.80	.86	.96	1.24	1.00	1.14	.97	.89	.87	.97	.95	.87	.96
River Oaks	Hillsborough Co.	H	.74	.84	1.00	1.30	1.12	1.30	1.14	1.06	1.01	1.09	1.09	.91	1.05
Starkey	New Port Richey	Pa	2.47	2.67	2.61	3.23	2.69	3.33	2.86	2.40	2.33	2.80	3.00	2.61	2.75
Pasco (Section 34)	St. Petersburg	Pa	9.78	9.39	10.26	15.13	9.48	12.80	12.13	12.13	12.13	12.19	12.03	12.11	11.63
Cypress Creek	WCRWSA	Pa	31.00	28.86	30.62	29.74	30.45	31.18	29.31	29.01	29.60	30.00	28.89	30.26	29.91

TABLE 4.--RURAL WATER USE BY COUNTIES, 1979

****WATER MANAGEMENT**** ****DISTRICT CODES****  SWM-SOUTHWEST FLORIDA SRM-SUWANNEE RIVER SFM-SOUTH FLORIDA SJM-ST JOHNS RIVER (WM DISTRICT:WATER MANAGEMENT DISTRICT) (GW-GROUND WATER;SW-SURFACE WATER)									
RURAL POPULATION--DIFFERENCE BETWEEN TOTAL POPULATION AND POPULATION SERVED BY PUBLIC-SUPPLY SYSTEMS.									
COUNTY,  WM DISTRICT,  HYDROLOGIC UNIT	RURAL  POPULATION  (THOUSANDS)	***FRESHWATER WITHDRAWN IN MGAL/D***							
		DOMESTIC USE		LIVESTOCK USE		SUBTOTAL		TOTAL	
		GW	SW	GW	SW	GW	SW	GW+SW	
CHARLOTTE									
SFM-03090103	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
SFM-03090205	1.0	0.11	0.00	0.09	0.00	0.20	0.00	0.20	
SFM-03100101	0.3	0.04	0.00	0.03	0.00	0.07	0.00	0.07	
SFM-03100103	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
SWM-03090205	0.2	0.02	0.00	0.03	0.00	0.05	0.00	0.05	
SWM-03100101	0.5	0.06	0.00	0.07	0.00	0.13	0.00	0.13	
SWM-03100102	2.0	0.23	0.00	0.05	0.00	0.28	0.00	0.28	
SWM-03100103	0.0	0.00	0.00	0.03	0.00	0.03	0.00	0.03	
SWM-03100201	2.0	0.23	0.00	0.05	0.00	0.28	0.00	0.28	
(SWM)SUBTOTAL	4.7	0.54	0.00	0.23	0.00	0.77	0.00	0.77	
TOTAL FOR CHARLOTTE	6.0	0.69	0.00	0.35	0.00	1.04	0.00	1.04	
CITRUS									
SWM-03100207	18.0	1.98	0.00	0.32	0.00	2.30	0.00	2.30	
SWM-03100208	17.9	1.97	0.00	0.32	0.00	2.29	0.00	2.29	
(SWM)SUBTOTAL	35.9	3.95	0.00	0.64	0.00	4.59	0.00	4.59	
TOTAL FOR CITRUS	35.9	3.95	0.00	0.64	0.00	4.59	0.00	4.59	
DE SOTO									
SWM-03100101	12.1	1.21	0.00	1.05	0.00	2.26	0.00	2.26	
SWM-03100102	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
(SWM)SUBTOTAL	12.1	1.21	0.00	1.05	0.00	2.26	0.00	2.26	
TOTAL FOR DE SOTO	12.1	1.21	0.00	1.05	0.00	2.26	0.00	2.26	

TABLE 4.--RURAL WATER USE BY COUNTIES, 1979--CONTINUED

COUNTY, WM DISTRICT, HYDROLOGIC UNIT	RURAL POPULATION (THOUSANDS)	***FRESH WATER WITHDRAWN IN MGAL/D***							
		DOMESTIC USE		LIVESTOCK USE		SUBTOTAL		TOTAL	
		GW	SW	GW	SW	GW	SW	GW+SW	
HARDEE									
SWM-03100101	10.9	1.09	0.00	1.17	0.00	2.26	0.00	2.26	
SWM-03100102	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
(SWM) SUBTOTAL	10.9	1.09	0.00	1.17	0.00	2.26	0.00	2.26	
TOTAL FOR HARDEE	10.9	1.09	0.00	1.17	0.00	2.26	0.00	2.26	
HERNANDO									
SWM-03100207	19.2	1.92	0.00	0.56	0.06	2.48	0.06	2.54	
SWM-03100208	12.7	1.27	0.00	0.37	0.04	1.64	0.04	1.68	
(SWM) SUBTOTAL	31.9	3.19	0.00	0.93	0.10	4.12	0.10	4.22	
TOTAL FOR HERNANDO	31.9	3.19	0.00	0.93	0.10	4.12	0.10	4.22	
HIGHLANDS									
SFM-03090101	5.0	0.50	0.00	0.47	0.00	0.97	0.00	0.97	
SFM-03090103	5.0	0.40	0.00	1.17	0.00	1.57	0.00	1.57	
SFM-03100101	0.0	0.00	0.00	0.05	0.00	0.05	0.00	0.05	
SWM-03090101	10.8	1.10	0.00	0.47	0.00	1.57	0.00	1.57	
SWM-03090103	1.0	0.10	0.00	0.70	0.00	0.80	0.00	0.80	
SWM-03100101	0.1	0.01	0.00	0.12	0.00	0.13	0.00	0.13	
(SWM) SUBTOTAL	11.9	1.21	0.00	1.29	0.00	2.50	0.00	2.50	
TOTAL FOR HIGHLANDS	21.9	2.11	0.00	2.98	0.00	5.09	0.00	5.09	
HILLSBOROUGH									
SWM-03100101	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
SWM-03100203	4.1	0.41	0.00	1.03	0.00	1.44	0.00	1.44	
SWM-03100204	4.1	0.41	0.00	1.53	0.00	1.94	0.00	1.94	
SWM-03100205	24.4	2.44	0.00	1.27	0.00	3.71	0.00	3.71	
SWM-03100206	48.8	4.88	0.00	1.27	0.00	6.15	0.00	6.15	
SWM-03100207	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
(SWM) SUBTOTAL	81.4	8.14	0.00	5.10	0.00	13.24	0.00	13.24	
TOTAL FOR HILLSBOROUGH	81.4	8.14	0.00	5.10	0.00	13.24	0.00	13.24	

TABLE 4.--RURAL WATER USE BY COUNTIES, 1979--CONTINUED

COUNTY, WM DISTRICT, HYDROLOGIC UNIT	RURAL POPULATION (THOUSANDS)	***FRESHWATER WITHDRAWN IN MGAL/D***							
		DOMESTIC USE		LIVESTOCK USE		SUBTOTAL		TOTAL	
		GW	SW	GW	SW	GW	SW	GW+SW	
LAKE									
SJM-03080101	0.9	0.09	0.00	0.17	0.16	0.26	0.16	0.42	
SJM-03080102	29.7	2.83	0.00	0.16	0.17	2.99	0.17	3.16	
SJM-03090101	0.1	0.01	0.00	0.00	0.00	0.01	0.00	0.01	
SJM-03100208	1.3	0.13	0.00	0.04	0.03	0.17	0.03	0.20	
SWM-03100208	0.5	0.05	0.00	0.01	0.01	0.06	0.01	0.07	
(SWM) SUBTOTAL	0.5	0.05	0.00	0.01	0.01	0.06	0.01	0.07	
TOTAL FOR LAKE	32.5	3.11	0.00	0.38	0.37	3.49	0.37	3.86	
LEVY									
SRM-03110101	2.3	0.23	0.00	0.07	0.21	0.30	0.21	0.51	
SRM-03110205	3.8	0.38	0.00	0.06	0.22	0.44	0.22	0.66	
SWM-03080102	1.7	0.17	0.00	0.04	0.14	0.21	0.14	0.35	
SWM-03100208	1.1	0.11	0.00	0.00	0.01	0.11	0.01	0.12	
SWM-03110101	2.0	0.20	0.00	0.06	0.02	0.26	0.02	0.28	
(SWM) SUBTOTAL	4.8	0.48	0.00	0.10	0.17	0.58	0.17	0.75	
TOTAL FOR LEVY	10.9	1.09	0.00	0.23	0.60	1.32	0.60	1.92	
MANATEE									
SWM-03100101	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
SWM-03100102	3.0	0.30	0.00	1.28	0.14	1.58	0.14	1.72	
SWM-03100201	5.6	0.56	0.00	0.13	0.01	0.69	0.01	0.70	
SWM-03100202	5.6	0.56	0.00	0.13	0.01	0.69	0.01	0.70	
SWM-03100203	1.8	0.18	0.00	0.63	0.08	0.81	0.08	0.89	
SWM-03100206	5.6	0.56	0.00	0.39	0.04	0.95	0.04	0.99	
(SWM) SUBTOTAL	21.6	2.16	0.00	2.56	0.28	4.72	0.28	5.00	
TOTAL FOR MANATEE	21.6	2.16	0.00	2.56	0.28	4.72	0.28	5.00	
MARION									
SJM-03080101	0.5	0.05	0.00	0.00	0.00	0.05	0.00	0.05	
SJM-03080102	60.6	6.06	0.00	0.93	0.05	6.99	0.05	7.04	
SJM-03100208	4.3	0.43	0.00	0.17	0.01	0.60	0.01	0.61	
SWM-03080102	2.0	0.20	0.00	0.53	0.02	0.73	0.02	0.75	
SWM-03100208	0.8	0.08	0.00	0.06	0.01	0.14	0.01	0.15	

TABLE 4.--RURAL WATER USE BY COUNTIES, 1979--CONTINUED

COUNTY, WM DISTRICT, HYDROLOGIC UNIT	RURAL POPULATION (THOUSANDS)	***FRESHWATER WITHDRAWN IN MGAL/D***							
		DOMESTIC USE		LIVESTOCK USE		SUBTOTAL		TOTAL	
		GW	SW	GW	SW	GW	SW	GW+SW	
(SWM) SUBTOTAL	2.8	0.28	0.00	0.59	0.03	0.87	0.03	0.90	
TOTAL FOR MARION	68.2	6.82	0.00	1.69	0.09	8.51	0.09	8.60	
PASCO									
SWM-03100205	3.9	0.39	0.00	0.72	0.00	1.11	0.00	1.11	
SWM-03100207	27.2	2.72	0.00	0.55	0.00	3.27	0.00	3.27	
SWM-03100208	7.8	0.78	0.00	0.55	0.00	1.33	0.00	1.33	
(SWM) SUBTOTAL	38.9	3.89	0.00	1.82	0.00	5.71	0.00	5.71	
TOTAL FOR PASCO	38.9	3.89	0.00	1.82	0.00	5.71	0.00	5.71	
PINELLAS									
SWM-03100206	15.0	1.50	0.00	0.33	0.00	1.83	0.00	1.83	
SWM-03100207	15.0	1.50	0.00	0.34	0.00	1.84	0.00	1.84	
(SWM) SUBTOTAL	30.0	3.00	0.00	0.67	0.00	3.67	0.00	3.67	
TOTAL FOR PINELLAS	30.0	3.00	0.00	0.67	0.00	3.67	0.00	3.67	
POLK									
SFM-03090101	16.6	1.66	0.00	0.32	0.00	1.98	0.00	1.98	
SJM-03080102	3.2	0.32	0.00	0.06	0.00	0.38	0.00	0.38	
SJM-03090101	2.2	0.22	0.00	0.04	0.00	0.26	0.00	0.26	
SJM-03100101	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
SJM-03100208	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
SWM-03090101	18.8	1.88	0.00	0.32	0.00	2.20	0.00	2.20	
SWM-03100101	50.0	5.00	0.00	1.01	0.00	6.01	0.00	6.01	
SWM-03100204	11.0	1.10	0.00	0.21	0.00	1.31	0.00	1.31	
SWM-03100205	5.5	0.55	0.00	0.10	0.00	0.65	0.00	0.65	
SWM-03100208	5.9	0.59	0.00	0.10	0.00	0.69	0.00	0.69	
(SWM) SUBTOTAL	91.2	9.12	0.00	1.74	0.00	10.86	0.00	10.86	
TOTAL FOR POLK	113.2	11.32	0.00	2.16	0.00	13.48	0.00	13.48	

TABLE 4.--RURAL WATER USE BY COUNTIES, 1979--CONTINUED

COUNTY, WM DISTRICT, HYDROLOGIC UNIT	RURAL POPULATION (THOUSANDS)	***FRESHWATER WITHDRAWN IN MGAL/D***							
		DOMESTIC USE		LIVESTOCK USE		SUBTOTAL		TOTAL	
		GW	SW	GW	SW	GW	SW	GW+SW	
SARASOTA									
SWM-03100101	1.0	0.10	0.00	0.02	0.00	0.12	0.00	0.12	
SWM-03100102	7.8	0.78	0.00	0.20	0.08	0.98	0.08	1.06	
SWM-03100201	41.7	4.17	0.00	0.10	0.03	4.27	0.03	4.30	
SWM-03100202	1.6	0.16	0.00	0.02	0.00	0.18	0.00	0.18	
(SWM) SUBTOTAL	52.1	5.21	0.00	0.34	0.11	5.55	0.11	5.66	
TOTAL FOR SARASOTA	52.1	5.21	0.00	0.34	0.11	5.55	0.11	5.66	
SUMTER									
SWM-03080102	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
SWM-03100208	16.3	1.63	0.00	0.70	0.00	2.33	0.00	2.33	
(SWM) SUBTOTAL	16.3	1.63	0.00	0.70	0.00	2.33	0.00	2.33	
TOTAL FOR SUMTER	16.3	1.63	0.00	0.70	0.00	2.33	0.00	2.33	
SWM TOTAL	447.0	45.15	0.00	18.94	0.70	64.09	0.70	64.79	
GRAND TOTAL	583.8	58.61	0.00	22.77	1.55	81.38	1.55	82.93	

## INDUSTRIAL WATER USE

The industrial water-use category includes water used by industries that supply their own water. Data do not include water sold to industry by a public-supply system. Data were collected by inventory of individual water users.

Water withdrawn for each major industrial classification is shown in table 5. The major industrial classifications include limerock mining, chemical processing, phosphate mining, citrus processing, food processing, and air conditioning. Data are listed by county, water management district, and hydrologic unit.

The total water used by industry in the Southwest Florida Water Management District in 1979 was 376 Mgal/d. All water withdrawn was freshwater except for 52 Mgal/d of saline ground water withdrawn in Hillsborough County for chemical processing. The total water withdrawn included 344 Mgal/d of ground water and 32 Mgal/d of surface water (table 1). Phosphate mining used 149 Mgal/d and was the largest industrial water user. Of this total, 126 Mgal/d was used in Polk County. Polk County was also the largest user, 223 Mgal/d, of industrial water by all industrial categories.

## IRRIGATION WATER USE

The irrigation water-use category includes water supplied by the irrigators that is derived from ground-water or surface-water sources. It does not include water supplied by a public-supply system. Irrigation water-use data is the least accurate of all water-use categories. One reason is that water withdrawn for irrigation is not required to be reported to the Southwest Florida Water Management District, whereas industrial and public-supply water withdrawals must be reported. Another reason is variability in use seasonally and areally depending on weather and soil conditions. Irrigation water-use data presented in this report were estimated from the most accurate available sources. Irrigation water includes water applied to citrus, melons, truck-farming crops, pasture, corn, turf, and other. These are designated as crop types and are listed and explained in table 6.

Freshwater withdrawn and acres irrigated for each crop type are given in table 6 by county, water management district, and hydrologic unit. Figures 23-26 show monthly irrigation use and total acres irrigated for each county. Estimates of acres irrigated were obtained from the U.S. Soil Conservation Service, County Extension Services, Southwest Florida Water Management District, Florida Crop and Livestock Reporting Service, and field observations. Water withdrawn and applied to each crop type was computed from water-use data obtained from irrigation monitored at 70 test sites as well as from consumptive use files at the Southwest Florida Water Management District. The test sites were monitored by the U.S. Geological Survey. Data were collected for citrus, pasture, tomatoes, strawberries, ornamentals, fish farms, sod, and golf courses.

TABLE 5.--INDUSTRIAL WATER USE BY COUNTIES,1979

****WATER MANAGEMENT**** ****DISTRICT CODES****  SWM-SOUTHWEST FLORIDA SRM-SUWANNEE RIVER SFM-SOUTH FLORIDA SJM-ST JOHNS RIVER (WM DISTRICT:WATER MANAGEMENT DISTRICT)  ABBREVIATIONS OF MAJOR CLASSIFICATIONS LM RK-LIME ROCK, CHEML PROC-CHEMICAL PROCESSING, PHSPHT-PHOSPHATE, A/C-AIR CONDITIONING					ALL WATER IS FRESH GROUND WATER EXCEPT: HILLSBOROUGH COUNTY-0.36 MGAL/D OF SALINE GROUND WATER IN HYDROLOGIC UNIT 03100205, 51.97 MGAL/D OF SALINE GROUND WATER IN HYDRO- LOGIC UNIT 03100206, 0.01 MGAL/D OF FRESH SURFACE WATER IN HYDROLOGIC UNIT 03100205 AND 7.93 MGAL/D OF FRESH SURFACE WATER IN HYDRO- LOGIC UNIT 03100206. POLK COUNTY-23.57 MGAL/D OF FRESH SURFACE WATER IN HYDROLOGIC UNIT 03100101 IN SOUTH- WEST FLORIDA WATER MANAGEMENT DISTRICT.				
****INDUSTRIAL WATER USE BY MAJOR CLASSIFICATIONS IN MGAL/D****									
COUNTY,WM DISTRICT, HYDROLOGIC UNIT	LM RK MINING	CHEML PROC	PHSPHT MINING	CITRUS PROC	FOOD PROC	A/C	OTHER	TOTAL	
CITRUS									
SWM-03100208	2.50	0.00	0.00	0.00	0.00	0.00	0.01	2.51	
(SWM) SUBTOTAL	2.50	0.00	0.00	0.00	0.00	0.00	0.01	2.51	
TOTAL FOR CITRUS	2.50	0.00	0.00	0.00	0.00	0.00	0.01	2.51	
DE SOTO									
SWM-03100101	0.00	0.00	0.00	0.43	0.00	0.00	0.29	0.72	
(SWM) SUBTOTAL	0.00	0.00	0.00	0.43	0.00	0.00	0.29	0.72	
TOTAL FOR DE SOTO	0.00	0.00	0.00	0.43	0.00	0.00	0.29	0.72	
HARDEE									
SWM-03100101	0.00	0.00	15.32	0.42	0.00	0.13	0.08	15.95	
(SWM) SUBTOTAL	0.00	0.00	15.32	0.42	0.00	0.13	0.08	15.95	
TOTAL FOR HARDEE	0.00	0.00	15.32	0.42	0.00	0.13	0.08	15.95	
HERNANDO									
SWM-03100207	34.50	0.00	0.00	0.06	0.00	0.00	0.00	34.56	
(SWM) SUBTOTAL	34.50	0.00	0.00	0.06	0.00	0.00	0.00	34.56	
TOTAL FOR HERNANDO	34.50	0.00	0.00	0.06	0.00	0.00	0.00	34.56	

TABLE 5.--INDUSTRIAL WATER USE BY COUNTIES, 1979--CONTINUED

****INDUSTRIAL WATER USE BY MAJOR CLASSIFICATIONS IN MGAL/D****								
COUNTY, WM DISTRICT, HYDROLOGIC UNIT	LM RK MINING	CHEML PROC	PHSPHT MINING	CITRUS PROC	FOOD PROC	A/C	OTHER	TOTAL
HIGHLANDS								
SWM-03090101	0.00	0.00	0.00	0.01	0.00	0.00	0.07	0.08
(SWM) SUBTOTAL	0.00	0.00	0.00	0.01	0.00	0.00	0.07	0.08
TOTAL FOR HIGHLANDS	0.00	0.00	0.00	0.01	0.00	0.00	0.07	0.08
HILLSBOROUGH								
SWM-03100204	0.00	0.91	7.90	0.00	0.26	0.05	0.01	9.13
SWM-03100205	0.00	7.23	0.00	0.43	1.15	0.31	0.45	9.57
SWM-03100206	0.00	56.66	0.00	0.00	1.25	0.36	4.63	62.90
(SWM) SUBTOTAL	0.00	64.80	7.90	0.43	2.66	0.72	5.09	81.60
TOTAL FOR HILLSBOROUGH	0.00	64.80	7.90	0.43	2.66	0.72	5.09	81.60
LAKE								
SJM-03080101	0.00	0.00	0.00	0.00	3.39	0.00	0.00	3.39
SJM-03080102	2.00	0.00	0.00	1.29	2.53	0.00	0.08	5.90
SJM-03100208	0.00	0.00	0.00	0.00	0.96	0.00	0.00	0.96
TOTAL FOR LAKE	2.00	0.00	0.00	1.29	6.88	0.00	0.08	10.25
MANATEE								
SWM-03100202	0.00	0.00	0.00	0.00	0.01	0.15	0.04	0.20
(SWM) SUBTOTAL	0.00	0.00	0.00	0.00	0.01	0.15	0.04	0.20
TOTAL FOR MANATEE	0.00	0.00	0.00	0.00	0.01	0.15	0.04	0.20
MARION								
SJM-03080102	0.01	0.00	0.00	0.02	0.03	0.00	0.25	0.31
TOTAL FOR MARION	0.01	0.00	0.00	0.02	0.03	0.00	0.25	0.31
PASCO								
SWM-03100205	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03
SWM-03100207	0.00	0.00	0.00	3.95	0.00	0.00	0.16	4.11
SWM-03100208	0.00	0.00	0.00	8.89	0.00	0.00	0.00	8.89

TABLE 5.--INDUSTRIAL WATER USE BY COUNTIES, 1979--CONTINUED

****INDUSTRIAL WATER USE BY MAJOR CLASSIFICATIONS IN MGAL/D****								
COUNTY, WM DISTRICT, HYDROLOGIC UNIT	LM RK MINING	CHEML PROC	PHSPHT MINING	CITRUS PROC	FOOD PROC	A/C	OTHER	TOTAL
(SWM) SUBTOTAL	0.00	0.00	0.00	12.84	0.00	0.00	0.19	13.03
TOTAL FOR PASCO	0.00	0.00	0.00	12.84	0.00	0.00	0.19	13.03
PINELLAS								
SWM-03100207	0.00	0.17	0.00	0.34	0.00	0.00	0.49	1.00
(SWM) SUBTOTAL	0.00	0.17	0.00	0.34	0.00	0.00	0.49	1.00
TOTAL FOR PINELLAS	0.00	0.17	0.00	0.34	0.00	0.00	0.49	1.00
POLK								
SWM-03100101	6.17	65.32	104.27	20.89	3.01	0.00	0.62	200.28
SWM-03100204	0.00	1.72	21.48	0.00	0.00	0.00	0.00	23.20
(SWM) SUBTOTAL	6.17	67.04	125.75	20.89	3.01	0.00	0.62	223.48
TOTAL FOR POLK	6.17	67.04	125.75	20.89	3.01	0.00	0.62	223.48
SARASOTA								
SWM-03100101	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
SWM-03100201	0.00	0.00	0.00	0.00	0.02	0.00	0.30	0.32
(SWM) SUBTOTAL	0.00	0.00	0.00	0.00	0.02	0.00	0.31	0.33
TOTAL FOR SARASOTA	0.00	0.00	0.00	0.00	0.02	0.00	0.31	0.33
SUMTER								
SWM-03100208	0.00	2.25	0.00	0.00	0.02	0.00	0.05	2.32
(SWM) SUBTOTAL	0.00	2.25	0.00	0.00	0.02	0.00	0.05	2.32
TOTAL FOR SUMTER	0.00	2.25	0.00	0.00	0.02	0.00	0.05	2.32
SWM TOTAL	43.17	134.26	148.97	35.42	5.72	1.00	7.24	375.78
GRAND TOTAL	45.18	134.26	148.97	36.73	12.63	1.00	7.57	386.34

TABLE 6.--IRRIGATION WATER USE AND IRRIGATED ACRES BY COUNTIES,1979

****WATER MANAGEMENT****			TRUCK FARMING--INCLUDES TOMATOES,PEPPERS,CUCUMBERS,STRAWBERRIES, CANTALOPES AND OTHER VEGETABLES. ACREAGE HARVESTED AND REPLANTED TO THE SAME CROP IS COUNTED TWICE.							
****DISTRICT CODES****			PASTURE--INCLUDES UNIMPROVED GRAZING GRASS,HAY,CLOVER AND RYE.							
SWM-SOUTHWEST FLORIDA SRM-SUWANNEE RIVER			TURF--INCLUDES SOD,LAWNS,PARKS,CEMETERIES AND GOLF COURSES.							
SFM-SOUTH FLORIDA SJM-ST JOHNS RIVER			OTHER INCLUDES ORNAMENTALS,PEACHES AND FISH FARMS.							
(GW-GROUND WATER;SW-SURFACE WATER)										
			*****IRRIGATED ACRES BY CROP TYPE*****							
COUNTY, WATER MANAGEMENT DIS- TRICT,HYDROLOGIC UNIT	FRESHWATER WITHDRAWN (MGAL/D)									
	GW	SW	CITRUS	MELONS	TRUCK FARMING	PASTURE	CORN	TURF	OTHER	TOTAL
CHARLOTTE										
SFM-03090205	2.35	0.07	440	180	516	220	0	0	0	1356
SWM-03100101	19.34	0.60	2420	990	2835	1210	0	1265	187	8907
SWM-03100102	3.51	0.11	440	180	516	220	0	230	34	1620
SWM-03100103	8.82	0.27	1100	450	1293	550	0	575	85	4053
SWM-03100201	1.16	0.04	0	0	0	0	0	230	34	264
(SWM)SUBTOTAL	32.83	1.02	3960	1620	4644	1980	0	2300	340	14844
TOTAL FOR CHARLOTTE	35.18	1.09	4400	1800	5160	2200	0	2300	340	16200
CITRUS										
SWM-03100207	2.02	0.36	10	90	15	0	0	565	30	710
SWM-03100208	2.24	0.40	90	210	35	0	20	565	0	920
(SWM)SUBTOTAL	4.26	0.76	100	300	50	0	20	1130	30	1630
TOTAL FOR CITRUS	4.26	0.76	100	300	50	0	20	1130	30	1630
DE SOTO										
SWM-03100101	41.24	1.28	31000	1600	1575	15000	0	2840	100	52115
(SWM)SUBTOTAL	41.24	1.28	31000	1600	1575	15000	0	2840	100	52115
TOTAL FOR DE SOTO	41.24	1.28	31000	1600	1575	15000	0	2840	100	52115
HARDEE										
SWM-03100101	34.82	0.00	27000	500	2900	46500	30	336	49	77315

TABLE 6.--IRRIGATION WATER USE AND IRRIGATED ACRES BY COUNTIES,1979--CONTINUED

COUNTY, WATER MANAGEMENT DIS- TRICT, HYDROLOGIC UNIT	FRESHWATER WITHDRAWN (MGAL/D)		*****IRRIGATED ACRES BY CROP TYPE*****							
	GW	SW	CITRUS	MELONS	TRUCK FARMING	PASTURE	CORN	TURF	OTHER	TOTAL
(SWM) SUBTOTAL	34.82	0.00	27000	500	2900	46500	30	336	49	77315
TOTAL FOR HARDEE	34.82	0.00	27000	500	2900	46500	30	336	49	77315
HERNANDO										
SWM-03100207	1.43	0.25	840	90	0	200	0	190	369	1689
SWM-03100208	3.07	0.54	1960	110	0	200	0	440	861	3571
(SWM) SUBTOTAL	4.50	0.79	2800	200	0	400	0	630	1230	5260
TOTAL FOR HERNANDO	4.50	0.79	2800	200	0	400	0	630	1230	5260
HIGHLANDS										
SFM-03090101	7.20	1.80	6704	108	36	11777	0	0	127	18752
SFM-03090103	22.87	5.72	21354	348	116	37525	0	0	403	59746
SFM-03100101	0.96	0.11	802	13	4	1408	0	0	15	2242
SWM-03090101	6.05	1.51	5698	92	31	10000	0	0	108	15929
SWM-03090103	0.94	0.23	876	14	5	1539	0	0	17	2451
SWM-03100101	1.88	0.21	1566	25	8	2751	0	0	30	4380
(SWM) SUBTOTAL	8.87	1.95	8140	131	44	14290	0	0	155	22760
TOTAL FOR HIGHLANDS	39.90	9.58	37000	600	200	65000	0	0	700	103500
HILLSBOROUGH										
SWM-03100203	8.91	0.47	2400	0	2407	1200	0	160	218	6385
SWM-03100204	20.56	1.08	7200	0	5112	1600	0	320	398	14630
SWM-03100205	11.78	0.62	2400	0	2075	600	0	960	292	6327
SWM-03100206	16.19	0.85	4000	0	2136	600	0	1760	462	8958
(SWM) SUBTOTAL	57.44	3.02	16000	0	11730	4000	0	3200	1370	36300
TOTAL FOR HILLSBOROUGH	57.44	3.02	16000	0	11730	4000	0	3200	1370	36300
LAKE										
SJM-03080101	5.88	1.96	0	0	0	5000	0	0	45	5045
SJM-03080102	65.48	21.83	48000	1000	5170	3500	6000	0	525	64195
SJM-03090101	5.97	1.99	6000	0	0	0	0	0	0	6000
SJM-03100208	6.97	2.32	6000	0	144	750	0	0	10	6904
SWM-03100208	0.87	0.29	0	0	36	750	0	0	0	786

TABLE 6.--IRRIGATION WATER USE AND IRRIGATED ACRES BY COUNTIES,1979--CONTINUED

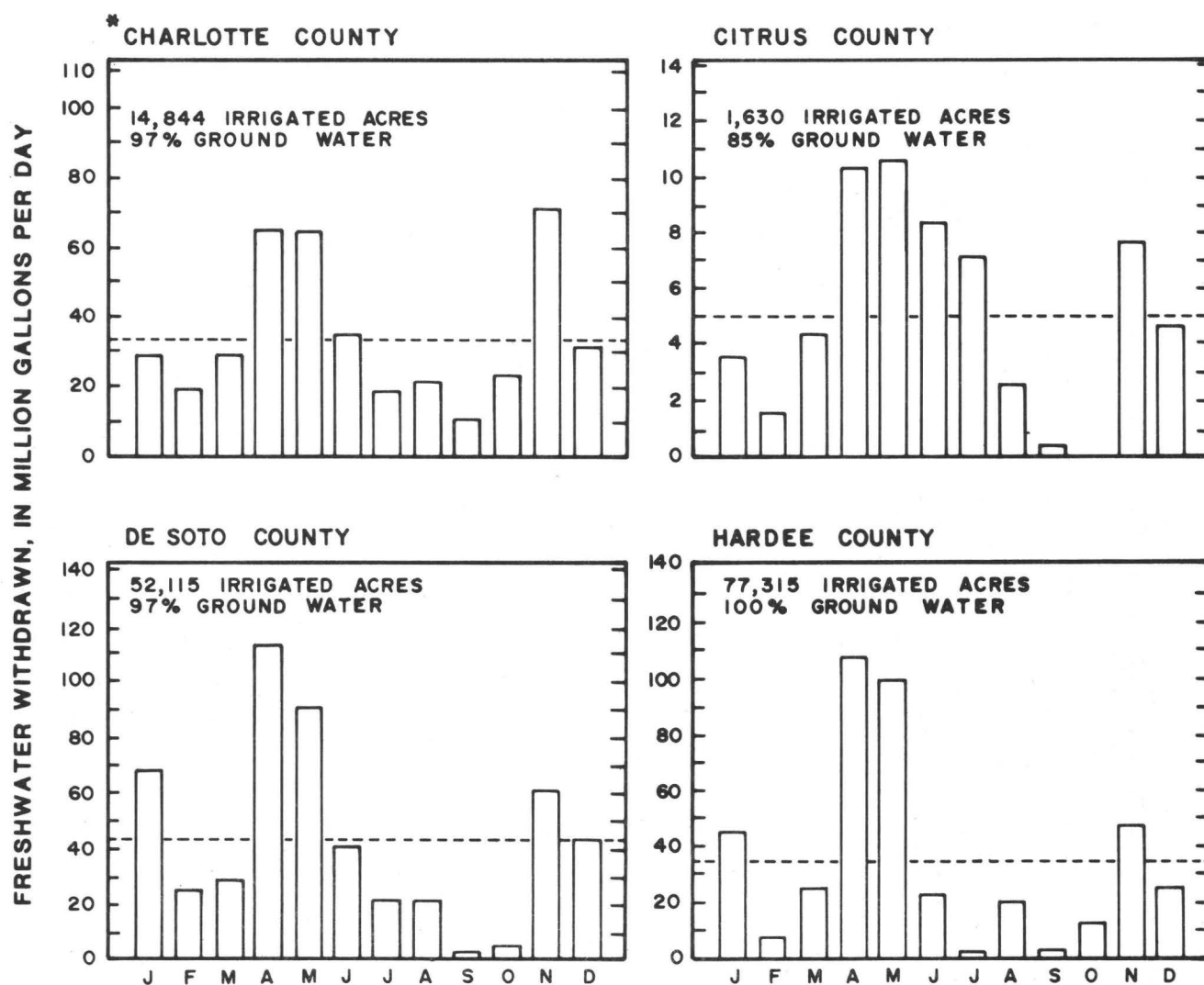
COUNTY, WATER MANAGEMENT DIS- TRICT, HYDROLOGIC UNIT	FRESHWATER WITHDRAWN (MGAL/D)		*****IRRIGATED ACRES BY CROP TYPE*****							
	GW	SW	CITRUS	MELONS	TRUCK FARMING	PASTURE	CORN	TURF	OTHER	TOTAL
(SWM) SUBTOTAL	0.87	0.29	0	0	36	750	0	0	0	786
TOTAL FOR LAKE	85.17	28.39	60000	1000	5350	10000	6000	0	580	82930
LEVY										
SRM-03110205	0.79	0.26	0	50	0	430	1600	0	1120	3200
SWM-03080102	0.49	0.16	0	0	0	260	960	0	630	1850
SWM-03100208	0.08	0.03	0	0	0	40	150	0	100	290
(SWM) SUBTOTAL	0.57	0.19	0	0	0	300	1110	0	730	2140
TOTAL FOR LEVY	1.36	0.45	0	50	0	730	2710	0	1850	5340
MANATEE										
SWM-03100101	0.15	0.02	0	0	0	425	0	0	0	425
SWM-03100102	7.29	0.81	450	150	1140	3825	1500	0	0	7065
SWM-03100201	6.50	0.72	0	0	0	0	0	2240	272	2512
SWM-03100202	24.18	2.69	7200	120	4710	3400	1000	1680	350	18460
SWM-03100203	12.96	1.44	450	30	4710	850	0	0	150	6190
SWM-03100206	8.27	0.92	900	0	1140	0	0	1680	200	3920
(SWM) SUBTOTAL	59.35	6.60	9000	300	11700	8500	2500	5600	972	38572
TOTAL FOR MANATEE	59.35	6.60	9000	300	11700	8500	2500	5600	972	38572
MARION										
SJM-03080102	8.99	1.11	8000	100	960	225	960	0	1858	12103
SJM-03100208	1.82	0.02	0	250	260	50	360	0	660	1580
SWM-03080102	2.96	0.06	0	1050	960	175	720	0	962	3867
SWM-03100208	0.88	0.29	0	600	320	50	360	0	411	1741
(SWM) SUBTOTAL	3.84	0.35	0	1650	1280	225	1080	0	1373	5608
TOTAL FOR MARION	14.65	1.48	8000	2000	2500	500	2400	0	3891	19291
PASCO										
SWM-03100205	7.69	0.00	6800	300	420	760	0	450	56	8786
SWM-03100207	8.66	0.00	3400	0	0	2280	0	1800	56	7536
SWM-03100208	4.32	0.00	6800	0	0	0	0	0	58	6858

TABLE 6.--IRRIGATION WATER USE AND IRRIGATED ACRES BY COUNTIES, 1979--CONTINUED

COUNTY, WATER MANAGEMENT DIS- TRICT, HYDROLOGIC UNIT	FRESHWATER WITHDRAWN (MGAL/D)		*****IRRIGATED ACRES BY CROP TYPE*****							
	GW	SW	CITRUS	MELONS	TRUCK FARMING	PASTURE	CORN	TURF	OTHER	TOTAL
(SWM) SUBTOTAL	20.67	0.00	17000	300	420	3040	0	2250	170	23180
TOTAL FOR PASCO	20.67	0.00	17000	300	420	3040	0	2250	170	23180
PINELLAS										
SWM-03100206	7.14	0.00	750	0	0	0	0	1925	38	2713
SWM-03100207	12.57	0.00	250	0	0	0	0	3575	72	3897
(SWM) SUBTOTAL	19.71	0.00	1000	0	0	0	0	5500	110	6610
TOTAL FOR PINELLAS	19.71	0.00	1000	0	0	0	0	5500	110	6610
POLK										
SFM-03090101	3.57	0.19	4375	75	42	800	0	160	35	5487
SWM-03090101	15.17	0.80	21875	100	56	0	0	640	140	22811
SWM-03100101	33.10	1.74	43750	200	112	800	0	1942	415	47219
SWM-03100204	1.69	0.09	1750	25	14	0	0	160	35	1984
SWM-03100205	2.81	0.15	2625	25	14	0	0	320	70	3054
SWM-03100208	7.65	0.40	13125	75	42	0	0	0	0	13242
(SWM) SUBTOTAL	60.42	3.18	83125	425	238	800	0	3062	660	88310
TOTAL FOR POLK	63.99	3.37	87500	500	280	1600	0	3222	695	93797
SARASOTA										
SWM-03100102	7.48	0.83	325	150	860	8850	150	0	0	10335
SWM-03100201	17.23	1.91	975	150	860	2950	150	4800	92	9977
(SWM) SUBTOTAL	24.71	2.74	1300	300	1720	11800	300	4800	92	20312
TOTAL FOR SARASOTA	24.71	2.74	1300	300	1720	11800	300	4800	92	20312
SUMTER										
SWM-03100208	15.83	0.83	500	2000	4300	500	500	250	20	8070
(SWM) SUBTOTAL	15.83	0.83	500	2000	4300	500	500	250	20	8070
TOTAL FOR SUMTER	15.83	0.83	500	2000	4300	500	500	250	20	8070

TABLE 6.--IRRIGATION WATER USE AND IRRIGATED ACRES BY COUNTIES, 1979--CONTINUED

COUNTY, WATER MANAGEMENT DIS- TRICT, HYDROLOGIC UNIT	FRESHWATER WITHDRAWN (MGAL/D)		*****IRRIGATED ACRES BY CROP TYPE*****							
	GW	SW	CITRUS	MELONS	TRUCK FARMING	PASTURE	CORN	TURF	OTHER	TOTAL
SWM TOTAL	389.93	23.00	200925	9326	40637	108085	5540	31898	7401	403812
GRAND TOTAL	522.78	60.38	302600	11450	47885	169770	14460	32058	12199	590422



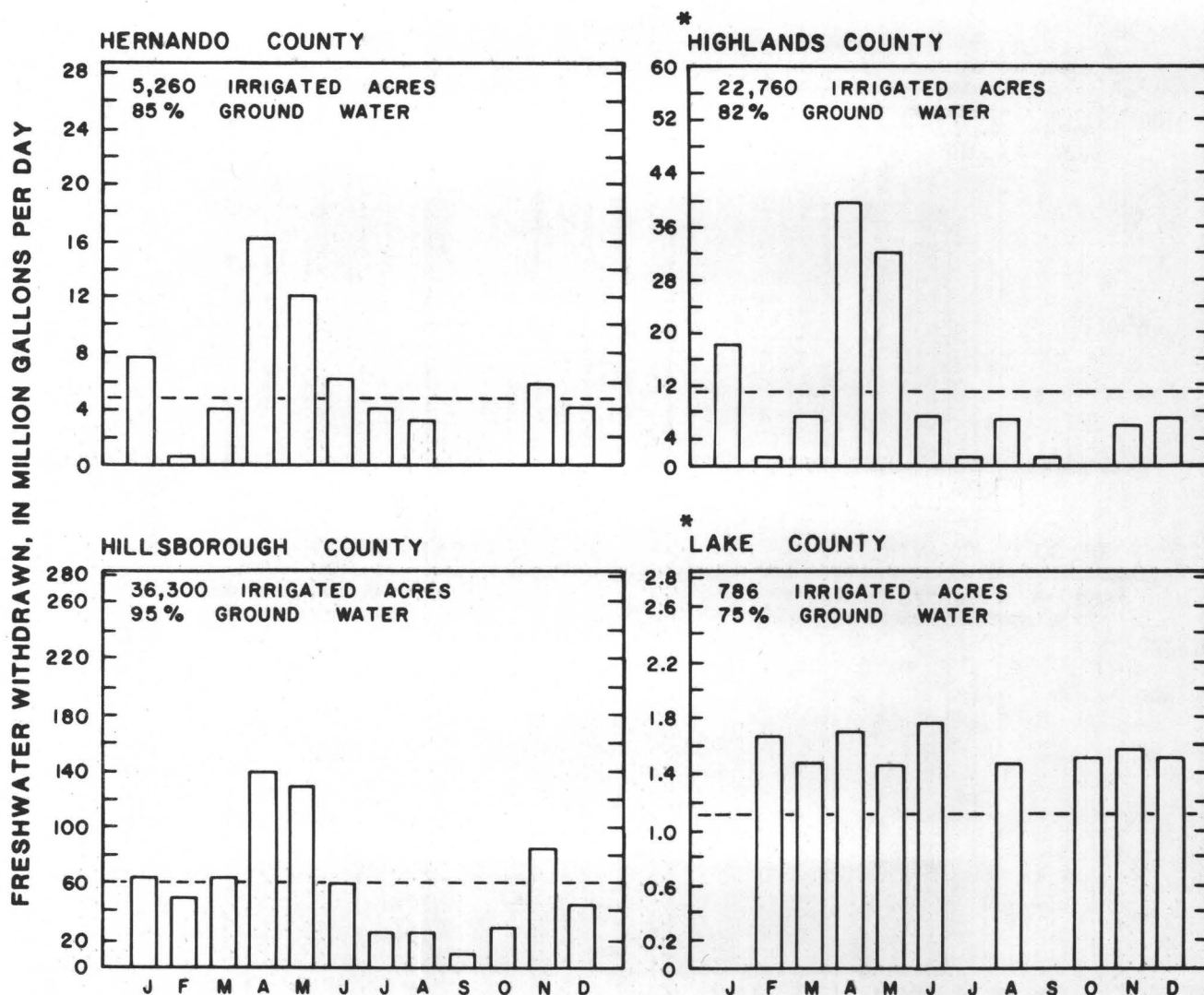
#### EXPLANATION

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AVERAGE DAILY WITHDRAWAL  
(TOTAL WITHDRAWAL / 365)

\*

DOES NOT INCLUDE WATER WITHDRAWN OUTSIDE THE  
SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

Figure 23.--Monthly irrigation freshwater use and total irrigated acres in the Southwest Florida Water Management District in Charlotte, Citrus, De Soto, and Hardee Counties, 1979.



#### EXPLANATION

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AVERAGE DAILY WITHDRAWAL  
(TOTAL WITHDRAWAL / 365)

\*

DOES NOT INCLUDE WATER WITHDRAWN OUTSIDE THE  
SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

Figure 24.--Monthly irrigation freshwater use and total irrigated acres in the Southwest Florida Water Management District in Hernando, Highlands, Hillsborough, and Lake Counties, 1979.

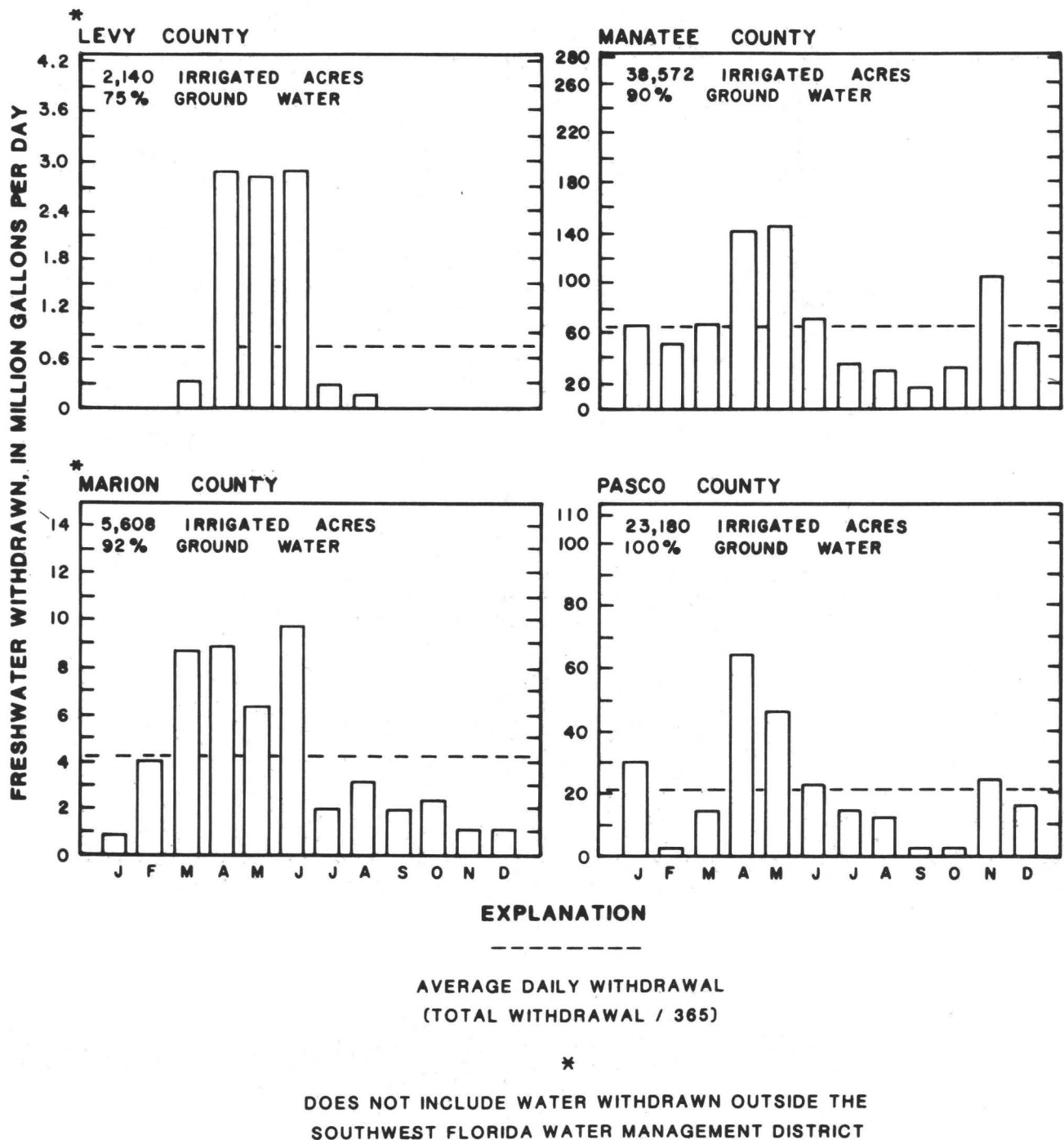
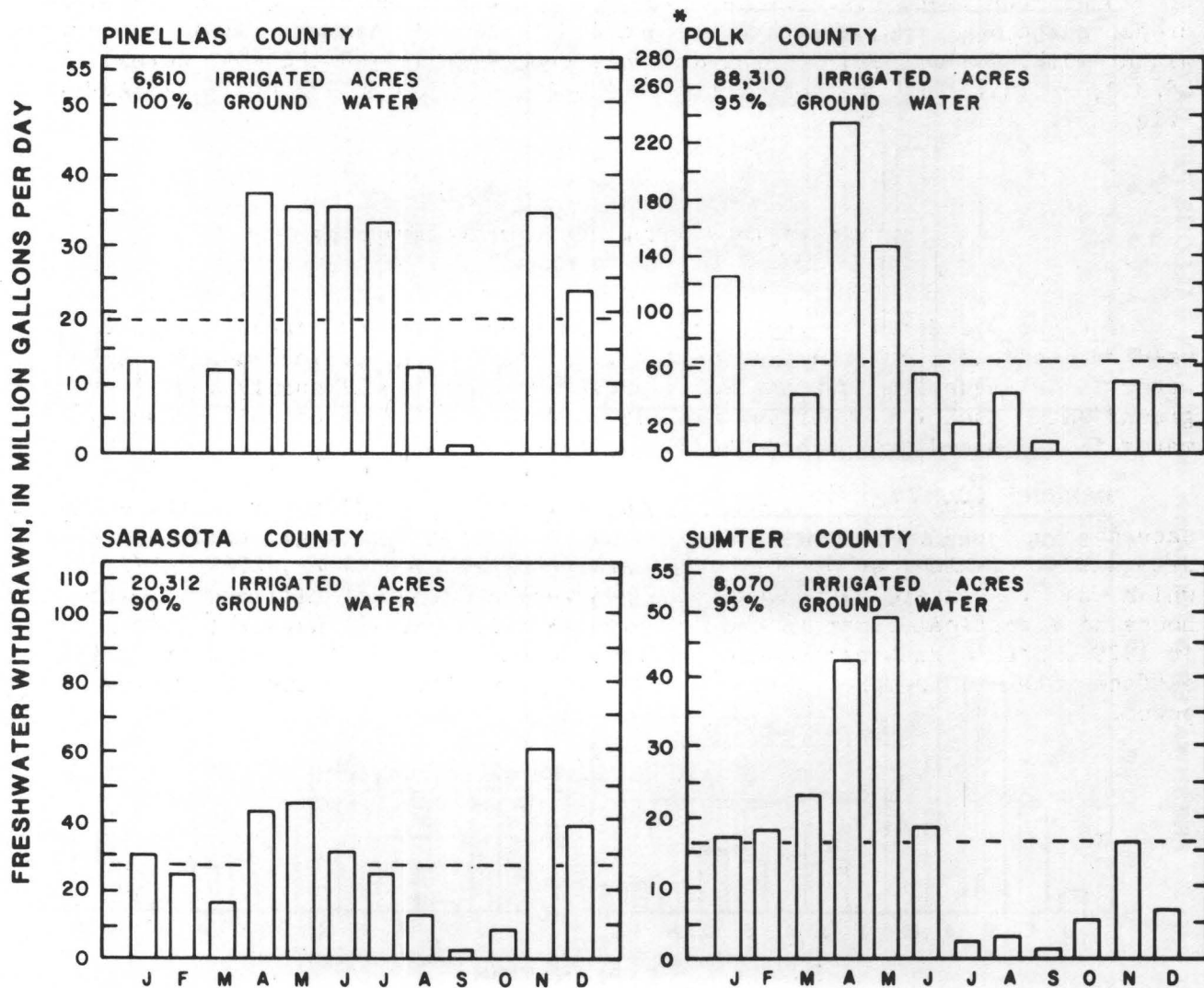


Figure 25.--Monthly irrigation freshwater use and total irrigated acres in the Southwest Florida Water Management District in Levy, Manatee, Marion, and Pasco Counties, 1979.



#### EXPLANATION

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AVERAGE DAILY WITHDRAWAL  
(TOTAL WITHDRAWAL / 365)

\*

DOES NOT INCLUDE WATER WITHDRAWN OUTSIDE THE  
SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

Figure 26.--Monthly irrigation freshwater use and total irrigated acres in the Southwest Florida Water Management District in Pinellas, Polk, Sarasota, and Sumter Counties, 1979.

The total water withdrawn for irrigation in the Southwest Florida Water Management District in 1979 was 413 Mgal/d, of which 390 Mgal/d was ground water and 23 Mgal/d was surface water (table 6). The total acres irrigated in the Water Management District were 403,812. Citrus, pasture, and truck-farming crops ranked one, two, and three in number of acres irrigated. Manatee County withdrew the most water, 66 Mgal/d. Polk County irrigated the most acres, 88,310, and withdrew the most water during any one month, 232 Mgal/d in April (fig. 26).

#### THERMOELECTRIC POWER GENERATION WATER USE

The thermoelectric power generation water-use category includes water used for condenser cooling and for the generation of electrical power. All water is self-supplied surface water except for very small quantities of ground water used for other purposes at powerplants. Most of this ground water is purchased from public-supply systems.

Table 7 shows the total water withdrawn and the total power generated in each county in 1979. Water management districts and hydrologic units are also designated. Table 7 shows that 6,194 Mgal/d of surface water, 308 Mgal/d of which was freshwater, was used in the generation of 33,688 million kilowatt hours of electrical power in the Southwest Florida Water Management District in 1979. The largest county user, Citrus County, used 1,897 Mgal/d of saline surface water in the production of 7,986 million kilowatt hours of electrical power.

TABLE 7.--THERMOELECTRIC POWER GENERATION WATER USE BY COUNTIES, 1979

WMDIST-WATER MANAGEMENT DISTRICT (SWM-SOUTHWEST FLORIDA, SFM-SOUTH FLORIDA); KWH-KILOWATT-HOUR.			
COUNTY, WMDIST, HYDROLOGIC UNIT	SURFACE WATER WITHDRAWN IN MGAL/D FRESH      SALINE		ANNUAL POWER GENERATION IN MILLION KWH
CITRUS			
SWM-03100207	0.0	1897.0	7986
(SWM)SUBTOTAL	0.0	1897.0	7986
TOTAL FOR CITRUS	0.0	1897.0	7986
HIGHLANDS			
SWM-03090101	76.4	0.0	267
(SWM)SUBTOTAL	76.4	0.0	267
TOTAL FOR HIGHLANDS	76.4	0.0	267
HILLSBOROUGH			
SWM-03100206	0.0	1854.5	10950
(SWM)SUBTOTAL	0.0	1854.5	10950
TOTAL FOR HILLSBOROUGH	0.0	1854.5	10950
MANATEE			
SWM-03100202	9.8	0.0	5985
(SWM)SUBTOTAL	9.8	0.0	5985
TOTAL FOR MANATEE	9.8	0.0	5985
PASCO			
SWM-03100207	0.0	1339.0	4343
(SWM)SUBTOTAL	0.0	1339.0	4343
TOTAL FOR PASCO	0.0	1339.0	4343

TABLE 7.--THERMOELECTRIC POWER GENERATION WATER USE BY COUNTIES,  
1979--CONTINUED

COUNTY, WMDIST, HYDROLOGIC UNIT	SURFACE WATER WITHDRAWN IN MGAL/D		ANNUAL POWER GENERATION IN MILLION KWH
	FRESH	SALINE	
PINELLAS			
SWM-03100206	0.0	796.0	2817
(SWM) SUBTOTAL	0.0	796.0	2817
TOTAL FOR PINELLAS	0.0	796.0	2817
POLK			
SWM-03100101	221.6	0.0	1340
(SWM) SUBTOTAL	221.6	0.0	1340
TOTAL FOR POLK	221.6	0.0	1340
SWM TOTAL	307.8	5886.5	33688
GRAND TOTAL	307.8	5886.5	33688

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