

Public-Supply Water Use in Florida, 1987

By Richard L. Marella

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- | | |
|----------------------------|--------------------------|
| 5. Alachua 16 | 39. Lake 26 |
| 6. Baker 16 | 40. Lee 26 |
| 7. Bay 16 | 41. Leon 27 |
| 8. Bradford 16 | 42. Levy 27 |
| 9. Brevard 17 | 43. Liberty 27 |
| 10. Broward 17 | 44. Madison 27 |
| 11. Calhoun 17 | 45. Manatee 28 |
| 12. Charlotte 18 | 46. Marion 28 |
| 13. Citrus 18 | 47. Martin 28 |
| 14. Clay 18 | 48. Monroe 29 |
| 15. Collier 19 | 49. Nassau 29 |
| 16. Columbia 19 | 50. Okaloosa 29 |
| 17. Dade 19 | 51. Okeechobee 29 |
| 18. De Soto 20 | 52. Orange 30 |
| 19. Dixie 20 | 53. Osceola 30 |
| 20. Duval 20 | 54. Palm Beach 31 |
| 21. Escambia 21 | 55. Pasco 32 |
| 22. Flagler 21 | 56. Pinellas 33 |
| 23. Franklin 21 | 57. Polk 33 |
| 24. Gadsden 21 | 58. Putnam 34 |
| 25. Gilchrist 22 | 59. St. Johns 34 |
| 26. Gulf 22 | 60. St. Lucie 34 |
| 27. Glades 22 | 61. Santa Rosa 35 |
| 28. Hamilton 22 | 62. Sarasota 35 |
| 29. Hardee 22 | 63. Seminole 36 |
| 30. Hendry 23 | 64. Sumter 36 |
| 31. Hernando 23 | 65. Suwannee 36 |
| 32. Highlands 23 | 66. Taylor 37 |
| 33. Hillsborough 24 | 67. Union 37 |
| 34. Holmes 24 | 68. Volusia 37 |
| 35. Indian River 24 | 69. Wakulla 38 |
| 36. Jackson 25 | 70. Walton 38 |
| 37. Jefferson 25 | 71. Washington 38 |
| 38. Lafayette 25 | |

CONVERSION FACTORS AND ABBREVIATED WATER-QUALITY UNITS

The inch-pound units in this report may be converted to metric (International System) units by the following factors:

Multiply inch-pound unit	by	To obtain SI unit
gallon per day (gal/d)	0.003785	cubic meter per day (m ³ /d)
million gallons per day (Mgal/d)	0.04381	cubic meters per second (m ³ /s)
mg/L	=	milligrams per liter
Mgal/d/y	=	million gallons per day per year
R/O	=	reverse osmosis

GLOSSARY

Commercial water use. Water for motels, hotels, restaurants, office buildings, and other commercial facilities and institutions, both civilian and military. The water may be obtained from a public supply or may be self-supplied.

Community water system. A public-water system that serves at least 15 service connections used by year-round residents or regularly serves at least 25 year-round residents.

Consumptive use. That part of water withdrawn that is evaporated, transpired, incorporated into products or crops, consumed by humans or livestock, or otherwise removed from the immediate water environment. Also referred to as water consumed and water depletion.

Domestic water use. Water for household purposes, such as drinking, food preparation, bathing, washing clothes and dishes, flushing toilets, and watering lawns and gardens. The water may be obtained from a public supply or may be self-supplied. Also referred to as residential water use.

Freshwater. Water that contains less than 1,000 milligrams per liter (mg/L) of dissolved solids; generally, more than 500 mg/L of dissolved solids is undesirable for drinking and many industrial uses. Generally, freshwater is considered potable.

Industrial water use. Water used for industrial purposes such as fabrication, processing, washing, and cooling, and includes such industries as steel, chemical and allied products, paper and allied products, mining, and petroleum refining. The water may be obtained from a public supply or may be self supplied.

Million gallons per day (Mgal/d). A rate of flow of water.

Net water-use. The term "net water-use" or "net use" for public supply represents water withdrawals plus or minus water transfers (imports and exports). In most counties, the net water-use and water withdrawals for public supply were equal. However, in counties that are involved in water transfers, the net water use represents the actual amount of water used for public supply regardless of the amount of water withdrawn (due to imports or exports).

Nonresident population. The number of persons who live in or visit Florida who do not consider it their permanent place of residence. According to this definition, tourist and seasonal or part time residents are considered nonresident population.

Other water use. Water used for such purposes as heating, cooling, irrigation (public supplied only), lake augmentation, and other nonspecific uses. The water may be obtained from a public supply or may be self supplied.

Per capita use. The average amount of water used per person during a standard time period, generally per day.

Public supply. Water withdrawn by public and private water suppliers and delivered to groups of users. Public suppliers provide water for a variety of uses, such as domestic, commercial, thermoelectric power, industrial, and public-water use. See also commercial water use, domestic water use, thermoelectric power water use, industrial water use, and public-water use.

Public-supply deliveries. Water provided for multiple users through a public-supply distribution system.

Public water use. Water supplied from a public-water supply and used for such purposes as firefighting, street washing, and municipal parks and swimming pools. Also referred to as water utility use.

Resident population. The number of persons who live in the State who consider it their permanent place of residence. College students, military personnel, and inmates of penal institutions are counted as permanent residents. According to this definition, tourist and seasonal or part time residents are considered nonresident population.

Residential water use. See domestic water use.

Saline water. Water that contains more than 1,000 mg/L (milligrams per liter) of dissolved solids.

Self-supplied water. Water withdrawn from a surface- or ground-water source by a user rather than being obtained from a public supply.

Thermoelectric power. Electrical power generated using fossil-fuel (coal, oil, or natural gas), geothermal, or nuclear energy.

Thermoelectric power water use. Water used in the process of the generation of thermoelectric power. The water may be obtained from a public supply or may be self supplied.

Wastewater. Water that carries wastes from homes, businesses, and industries.

Water transfer. Artificial conveyance of water from one area to another. This may be referred to as an import or export of water from one county to another.

Withdrawal. Water removed from the ground or diverted from a surface-water source for use.

Public-Supply Water Use in Florida, 1987

By Richard L. Marella

ABSTRACT

Total water withdrawn for public-supply use in Florida for 1987 amounted to 1,811.1 million gallons per day and served nearly 10.4 million residents. Ground water supplied 90 percent (1,634.7 million gallons per day) of the public-supply water in 1987 and served 9.34 million residents; surface water supplied 10 percent (176.4 million gallons per day). Public-supply water withdrawals in June peaked at 2,050.0 million gallons per day, primarily because of an increase in the residential demands for lawn irrigation. January withdrawals were nearly 440.0 million gallons per day less (1,610.0 million gallons per day). Public-supply per capita use for Florida in 1987 was 174 gallons per day.

The population of Florida increased from 4.95 million in 1960 to 12.0 million in 1987 (143 percent), and the percentage of the population served by public-supply in Florida increased from 68 percent in 1960 to 86 percent in 1987. In 1960, 3.37 million residents were served by public-supply water systems compared with 10.4 million in 1987 (an increase of 208 percent). The use of public-supply water in Florida increased 242 percent between 1960 and 1987.

Of the total public-supply water withdrawn in Florida for 1987 by water management districts, South Florida Water Management District accounted for 48.0 percent; Southwest Florida Water Management District 22.3 percent; St. Johns River Water Management District 22.1 percent; Northwest Florida Water Management District 6.9 percent and the Suwannee River Water Management District 0.7 percent. Ground water was the primary source of public-supply water in all five water management districts for 1987. The Southwest Florida Water Management District accounted for 58 percent (102.7 million gallons per day) of the surface water withdrawn for public-supply use in Florida during 1987. The St. Johns River Water Management District had the largest amount of water withdrawn from the Floridan aquifer system in 1987 (365.7 million gallons per day), followed by the Southwest Florida Water Management District (283.7 million gallons per day). The South Florida Water Management District was the only district with withdrawals of ground water from the Biscayne aquifer and the Northwest Florida Water Management District was the only district with withdrawals of ground water from the sand-and-gravel aquifer.

Dade County used the largest amount of water for public-supply use in the State for 1987. Total public-supply net water use in Dade County for 1987 was 352.1 million gallons per day and served nearly 1.73 million people. Collier County had the highest public-supply per capita water use in 1987 (299 gallons per day), and De Soto County had the

lowest public-supply per capita water use (102 gallons per day). Ground water was used for public supply in all but Manatee and Okeechobee Counties which relied solely on surface water for public-supply use during 1987. To meet their needs for potable water, six counties imported 127.9 million gallons per day from adjacent counties. Nine counties treated or diluted 37.4 million gallons of nonpotable water to meet the secondary drinking water standards established by the Florida Department of Environmental Regulation.

INTRODUCTION

Background

Public-supply water systems (both privately and publicly owned) served nearly 10.4 million residents in 1987 or 86 percent of the more than 12.0 million permanent residents of Florida (Shoemyen and others, 1988, p. 5). This compares to 3.37 million served in 1960 (MacKichan and Kammerer, 1961, p. 13) or 68 percent of the 4.95 million total population (Dietrich, 1978, p. 26). The percentage of population that depends on public-supply water increased 13 percent from 1960 to 1987 and the population served by public supply more than tripled.

Water withdrawn for public-supply in Florida increased from 530.0 Mgal/d (million gallons per day) in 1960 (MacKichan and Kammerer, 1961, p. 13), to 1,811.1 Mgal/d in 1987 (an increase of 242 percent) and may reach nearly 2,880.0 Mgal/d by the year 2020 (R.L. Marella, written commun.). Although water resources in Florida are abundant, freshwater needed for potable purposes has become limited in several areas. The increase in water demand in Florida has led to water shortages, local encroachment of saltwater into freshwater aquifers, and competition for water among users (Fernald and Patton, 1984, p. 45-51). Currently, water managers and others are searching for solutions that include alternative water sources, implementing water-use restrictions, and possibly limiting growth. Inventorying the quantity and sources of water used for public-supply purposes and identifying the areas or locations of public-supply water use provides a data base required for managing water resources and use in Florida. Through the cooperation of the Florida Department of Environmental Regulation (FDER), the statewide

water-use data base has been developed and maintained. Additionally, without the participation and support from the five water management districts (Northwest Florida Water Management District, St. Johns River Water Management District, South Florida Water Management District, Southwest Florida Water Management District, and the Suwannee River Water Management District) consistent and accurate water use data could not be compiled for Florida. Much of the water withdrawal and population data used in this report were supplied by the FDER and the water management districts (WMD).

Purpose and Scope

This report provides an inventory of the quantity of water withdrawn and the locations of water used for public-supply purposes in Florida during 1987. It also identifies the water sources and seasonal variations that affected public-supply withdrawals for 1987.

Public-supply water use data are presented in this report for the calendar year 1987. Data are reported by county, State, and WMD for public-supply water use, which includes withdrawals and net water-use, population served, per capita use, water sources, and seasonal fluctuations. Much of these data are from published reports or from files of unpublished data.

Previous Investigations

As part of the U.S. Geological Survey National Water-use Information Program, water use data are collected and compiled for each State every 5 years. Public-supply water use data have been assessed for Florida nine times and exist from 1950. Public-supply data for 1950 (MacKichan, 1951), 1955 (MacKichan, 1957), and 1960 (MacKichan and Kammerer, 1961) included data on water use for States but not for individual counties. More detailed statewide water-use studies were done for 1965 (Pride, 1975), 1970 (Pride, 1973), 1975 (Leach, 1978), 1977 (Leach and Healy, 1980), 1980 (Leach, 1983), 1985 (Marella, 1988), and included assessments of all water uses in Florida (public-supply, domestic self-supplied, commercial/industrial self-supplied, agricultural irrigation, and thermoelectric power generation self-supplied water uses) by county. Additional 1987 water-use data for categories other than public supply exist for selected counties in Florida in reports published by the Southwest Florida WMD (Tuttell and Sorensen, 1989) and the St. Johns River WMD (Marella, 1990a).

Data sources and reliability

Public-supply water systems in Florida are regulated by the FDER. These systems serve more than 25 residents

or have more than 15 year-round service connections (Florida Department of Environmental Regulation, 1990, p. 6). In 1987, the FDER had 2,267 active public water supply systems (community systems) on record (Gregory Parker, Florida Department of Environmental Regulation, written commun., 1990). Each of these systems are required to submit monthly operating reports (MOR) to the FDER. The MOR show records of the daily and monthly water flows (withdrawals or pumpage), service connections, and other items for each system. Additionally, most public-supply water systems in Florida are required to have a consumptive water use permit from the local water management district. Generally, most of these permits require systems operators to submit records of withdrawals or pumpage to the district. Water-use data for the 939 systems inventoried in this report were obtained from either the WMD permit files or collected from the FDER MOR files.

Water withdrawals are expressed in million gallons per day. Withdrawals and net water-use values are the average daily quantities used, as derived from annual data. The tables in this report show values in million gallons per day and are reported to two places to the right of the decimal or to 10,000 gal/d (gallons per day), however, values are rounded in the text. Data for public-supply is considered accurate because most of the public supply systems inventoried meter their withdrawals and/or use.

Terminology

The term "potable water" refers to water that meets the secondary drinking water standards set by the FDER that are imposed on public-supply water systems (Florida Department of Environmental Regulation, 1990). Potable water is considered safe for human consumption. Chloride and dissolved solids concentrations in potable water are less than or equal to 250 mg/L (milligrams per liter) and 500 mg/L respectively. Freshwater that exceeds these chloride and dissolved solids limits are either diluted with fresher water or treated by reverse osmosis (R/O) to meet standards for potable water for public supply. Treated or diluted water is often referred to as slightly saline or nonpotable water.

The term "public supply" refers to water supplied by a government or publicly (for example, city, county, State, and others) or a privately owned water system for public distribution. Public suppliers provide water (deliveries) for a variety of uses such as domestic (residential), commercial, industrial, public (water utility), and thermoelectric power (fig. 1). A public supplier may have several water-supply systems that serve more than 25 residents, or have more than 15 or more year-round service under its operations or ownership.

The term "water use" for the public-supply category refers to water withdrawals (source), deliveries, and disposition (fig. 1). In this report, water-use data for public

supply include withdrawals by source, net water-use, population served, and per capita use.

The term "net water-use" or "net use" for public supply represents water withdrawals plus or minus water transfers (imports and exports). In most counties, the net water-use and water withdrawals for public supply were equal. However, in counties that are involved in water transfers, the net water use represents the actual amount of water used for public supply regardless of the amount of water withdrawn (due to imports or exports).

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PUBLIC-SUPPLY WATER USE IN 1987

State Totals

For this report, public-supply water use data were collected for those systems that served 400 people or more or withdrew more water than 10,000 gal/d (0.01 Mgal/d).

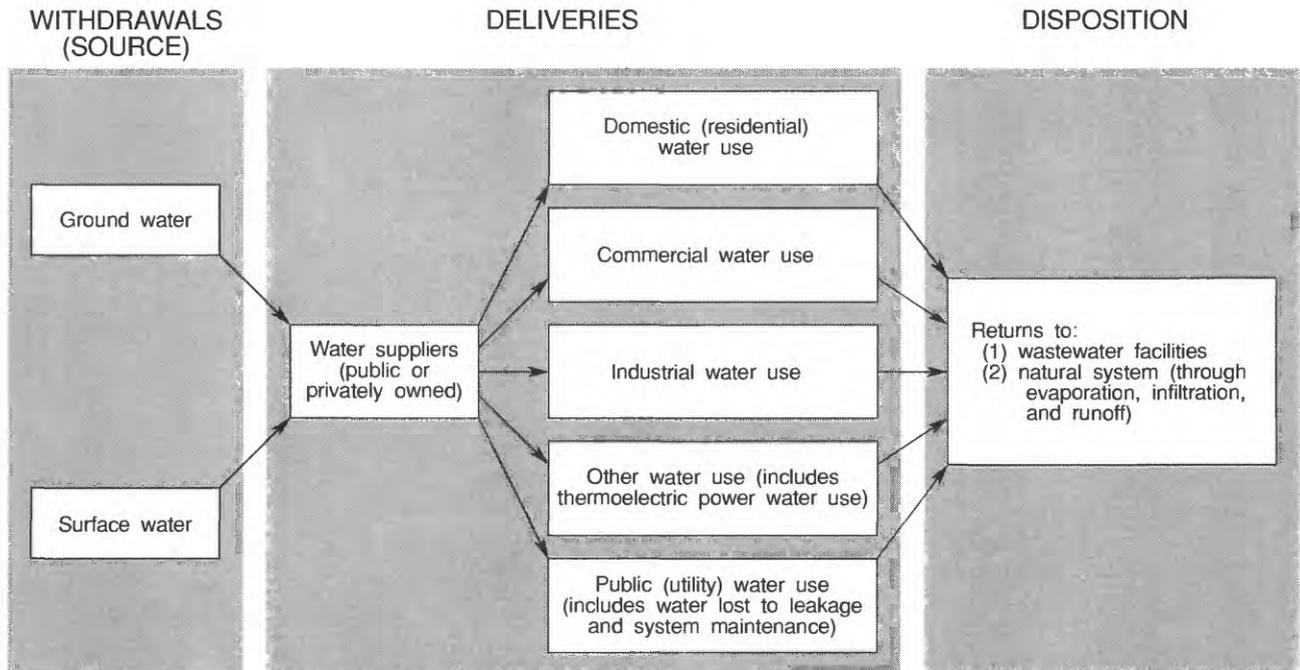


Figure 1. General diagram of public-supply water use in Florida. (Modified from Linaweaver and others, 1967.)

The total number of public water systems inventoried in 1987 was 939, however, because some water suppliers in Florida own or operate more than one water system, only 696 suppliers operated the 939 systems. The detailed data presented on water use in this report are at the utility or supplier level rather than at the system level. Of the 696

public suppliers, 24 purchased water strictly from other utilities or water-supply authorities for resale purposes. The systems inventoried are estimated to account for more than 99 percent of the total public-supply water use in the State. Data were collected for all 67 counties in Florida (fig. 2), as each county had at least one system inventoried.

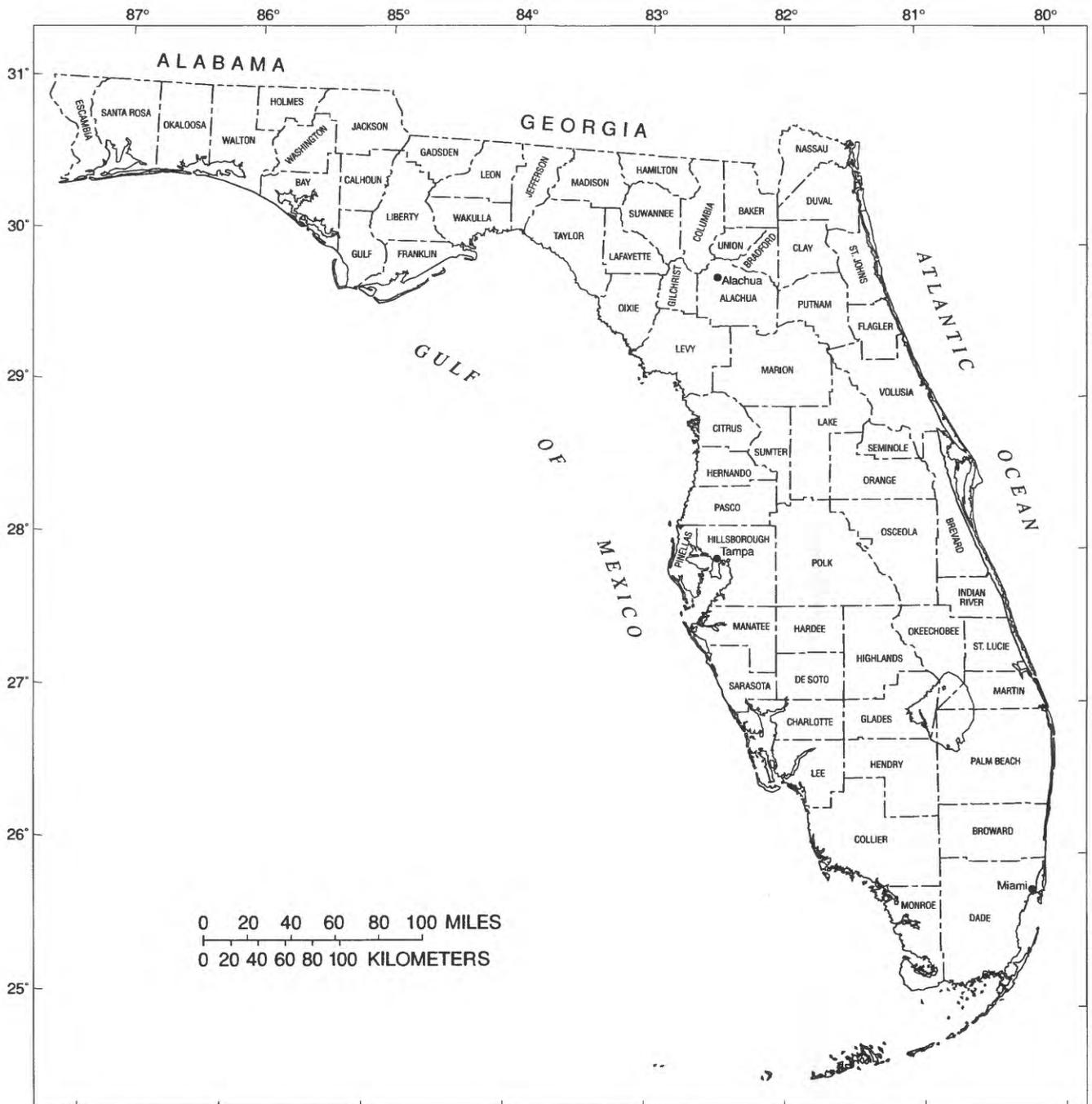


Figure 2. Counties and selected cities.

Total Use

Water withdrawn for public-supply use in Florida during 1987 totaled 1,811.1 Mgal/d based on the 696 utilities inventoried. These utilities served an estimated 10.4 million residences in 1987. Ground water was the source of 90 percent (1,634.7 Mgal/d) of public-supply water withdrawn in 1987 and served nearly 9.34 million residences. The statewide average per capita water use for 1987 was 174 gal/d compared to a National average of 183 gal/d in 1985 (Solley and others, 1988).

Public-supply water is delivered for the following categories of use: domestic (residential), commercial, industrial, public (water utility) use and other (includes thermoelectric power water use) (fig. 1). Based on 1985 data, an estimated 71 percent of public-supply water was delivered for domestic use, 15 percent for commercial, 9 percent industrial, 3 percent public (water utility), and 2 percent for other use (Marella, 1988, p. 18). For 1987, public-supply water deliveries were not estimated, but the percentage of deliveries are believed to be similar to 1985.

Water withdrawn for public-supply in Florida has increased rapidly since water-use data were first collected (fig. 3). Public-supply withdrawal for 1950 was 170.0 Mgal/d (MacKichan, 1951, p. 6); by 1960 it was 530.0 Mgal/d (MacKichan and Kammerer, 1961, p. 13), 857.1 Mgal/d in 1970 (Pride, 1973), 1,361.3 Mgal/d in 1980 (Leach, 1983, p. 21), 1,677.1 Mgal/d in 1985 (Marella, 1988, p. 20), and 1,811.1 Mgal/d in 1987. This is an overall increase of 965 percent between 1950 and 1987 in water

withdrawn for public-supply use in Florida. During the 1960's, public-supply water use increased approximately 35 Mgal/d/yr (million gallons per day per year). However, during the 1970's, public-supply increased approximately 48 Mgal/d/yr and through 1987 the average increase was approximately 64 Mgal/d/yr.

Florida's population has more than doubled since 1960, increasing from 4.95 million people in 1960 (Dietrich, 1978, p. 26) to more than 12.0 million in 1987 (Shoemyen and others, 1988, p. 5). In addition to resident populations, it is estimated that nearly 34.1 million people visited Florida in 1987 (Florida Division of Tourism, 1988). This influx of permanent residents and tourists has increased public-supply water demands as many new residents generally move to areas that are served by public-supply water systems. In 1960, about 3.37 million residents were served by public-supply water systems (MacKichan and Kammerer, 1961, p. 13) compared with nearly 10.4 million in 1987 (fig. 4), an increase of 208 percent. The percentage of population served by public supply increased from 68 percent in 1960 to more than 86 percent in 1987.

Sources of Water

Public suppliers obtain water from either ground- or surface-water sources or purchase it from other utilities. The amount of water obtained is referred to as withdrawal or pumpage and is considered the input side of the public supply (fig. 1). Ground water is the primary source for public-supply water in Florida because it is readily available,

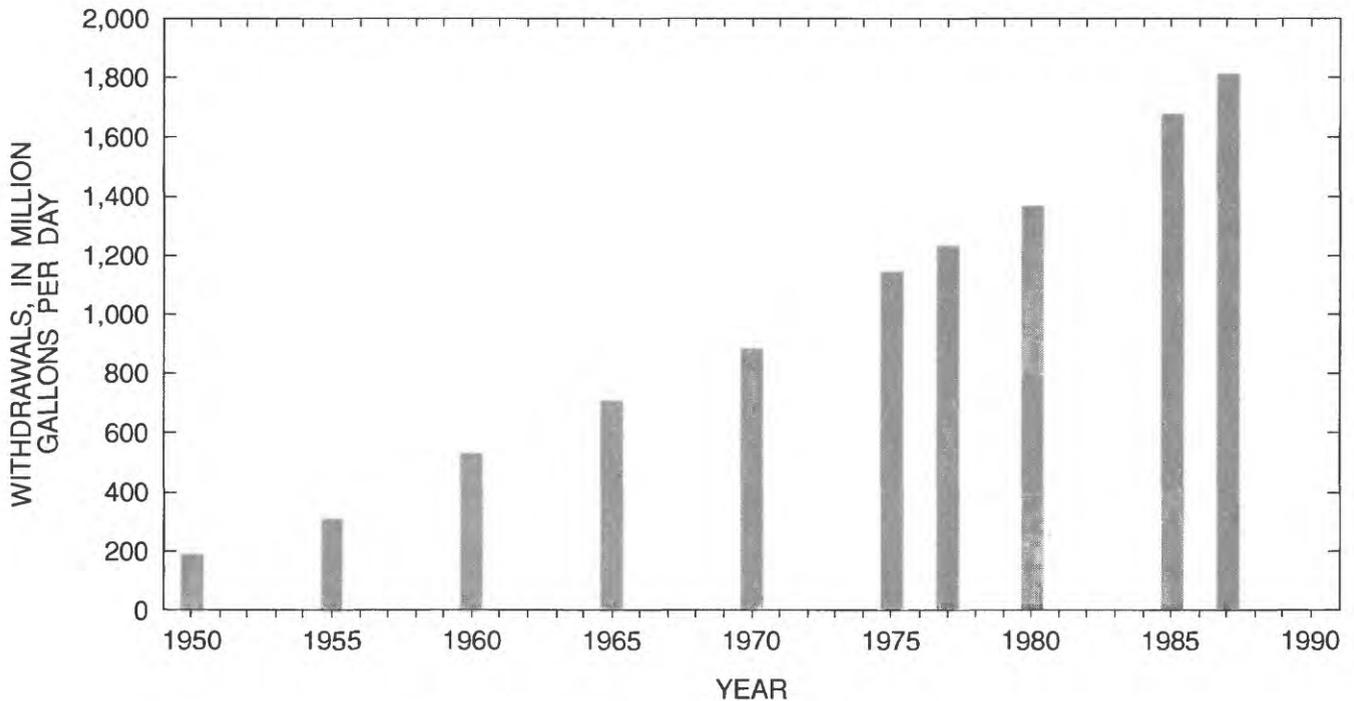


Figure 3. Public-supply water withdrawals, 1950-87.

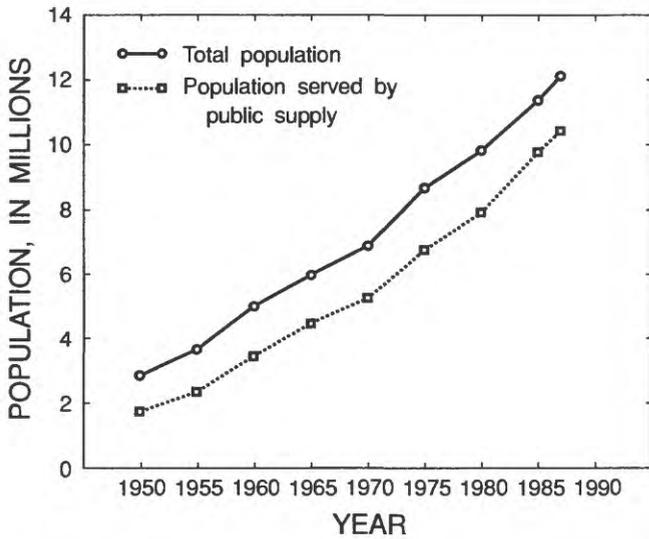


Figure 4. Total population and population served by public supply, 1950-87. (Modified from Leach, 1983, and Marella, 1988.)

is of good quality in most areas of the State, usually requires very little treatment before distribution and is generally cheaper to produce. Ground water accounted for 90 percent (1,634.7 Mgal/d) of the public-supply withdrawals in Florida for 1987 (fig. 5). Surface water accounted for the remaining 10 percent (176.4 Mgal/d) and was a source of water for 16 of the 696 utilities inventoried. In 1987, ground water for public supply was derived from the Floridan aquifer system (46.8 percent); the Biscayne aquifer (37.5 percent); and unnamed surficial, intermediate, and the sand-and-gravel aquifers (15.7 percent) (fig. 6).

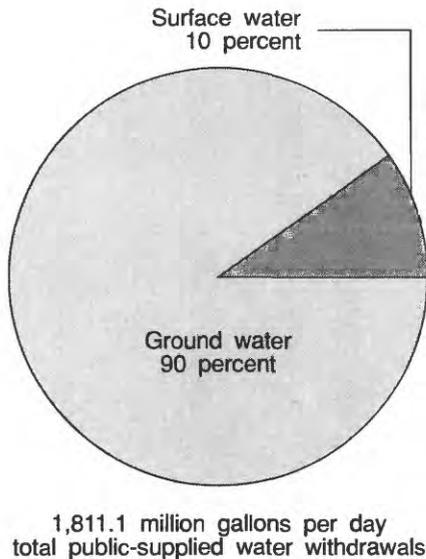
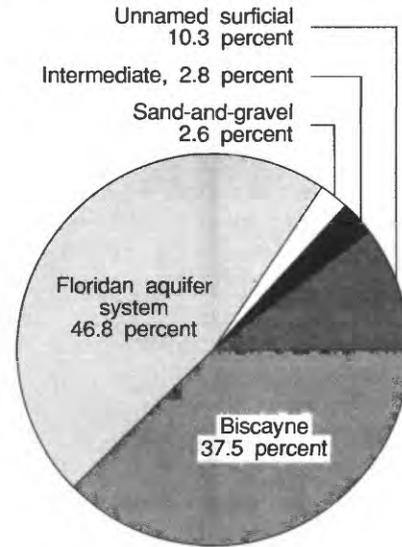


Figure 5. Public-supply water withdrawals by source, 1987.

A relatively small amount (37.4 Mgal/d) of ground water withdrawn for public-supply use in 1987 was unsuitable for immediate potable purposes and required treatment to meet FDER standards. This ground water was either treated by R/O or diluted with fresher water to meet standards. In 1985, 17.3 Mgal/d of public-supply ground water was treated to meet standards (Marella, 1988, p.19).



1,634.1 million gallons per day total public-supplied ground-water withdrawals

Figure 6. Public-supply ground-water withdrawals by principal aquifer, 1987.

Monthly Use

Monthly withdrawals for public supply use in Florida fluctuates seasonally because of changes in demand. Variations in temperature, precipitation (rainfall), and tourism generally cause these changes in demand. Public-supply withdrawals peaked in June at nearly 2,050.0 Mgal/d, whereas in January, withdrawals were nearly 440.0 Mgal/d less at nearly 1,610.0 Mgal/d in 1987 (fig. 7). Monthly variations in public-supply withdrawals

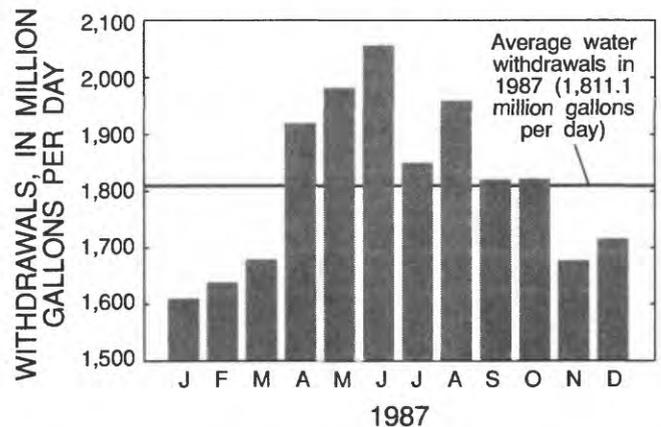


Figure 7. Monthly public-supply water withdrawals, 1987.

are normal. In 1985, the variation between the peak water-use month (May) and the lowest (September) was nearly 400 Mgal/d (Marella, 1988, p. 15) and in 1980, the variation between the peak water-use month (June) and the lowest (February) was nearly 215 Mgal/d (Leach, 1983, p. 149). The months of April, May, and June normally have the highest public-supply water demands because of an increase in residential use, which is primarily for lawn irrigation. The peak withdrawals during these months often cause problems as they usually stress the freshwater resources.

Water Management Districts Totals

The Florida Water Resources (FWR) Act of 1972 established authority for management of the State's water resources through five WMD under the general supervision of the Florida Department of Natural Resources. These districts, which encompass the entire State, are the Northwest Florida WMD, the St. Johns River WMD, the South Florida WMD, the Southwest Florida WMD, and the Suwannee River WMD (fig. 8). These districts are

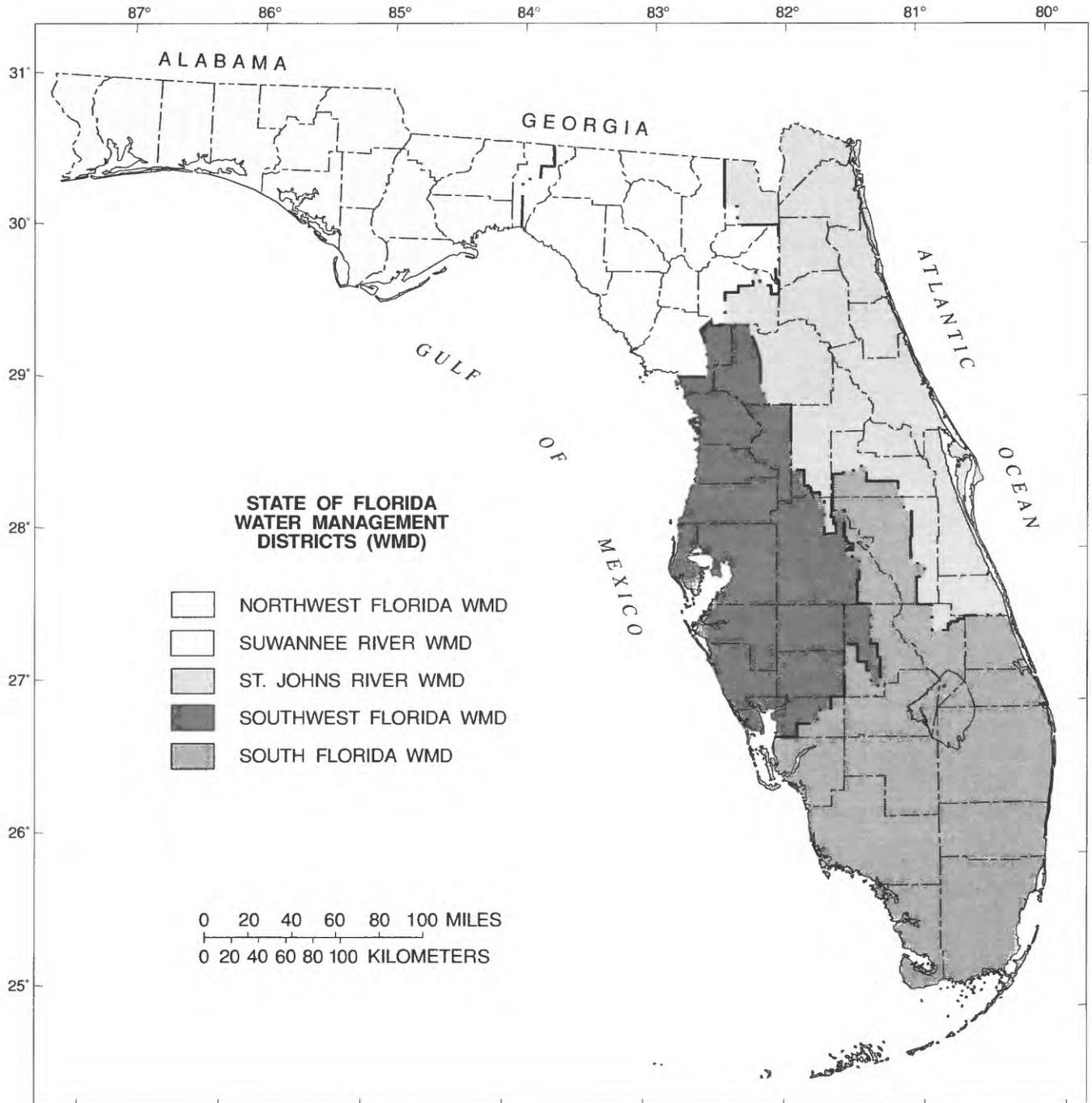


Figure 8. Boundaries of water management districts. (Modified from Glenn, 1989.)

empowered to oversee a variety of water issues on a regional level and are currently under the supervision of the FDER (Marella, 1990b., p. 213-214).

Total Use

The South Florida WMD accounted for 48.0 percent of the State's total public-supply water withdrawals in 1987 (fig. 9). The Southwest Florida WMD and the St. Johns River WMD accounted for 22.3 and 22.1 percent of the water withdrawal for public-supply use respectively, followed by the Northwest Florida WMD (6.9 percent) and the Suwannee River WMD (0.7 percent). Within the South Florida WMD three counties had the greatest net use of public-supply water for 1987: Broward, Dade, and Palm Beach Counties each used more than 150 Mgal/d for a combined total of nearly 40 percent of public-supply water during 1987 (table 1).

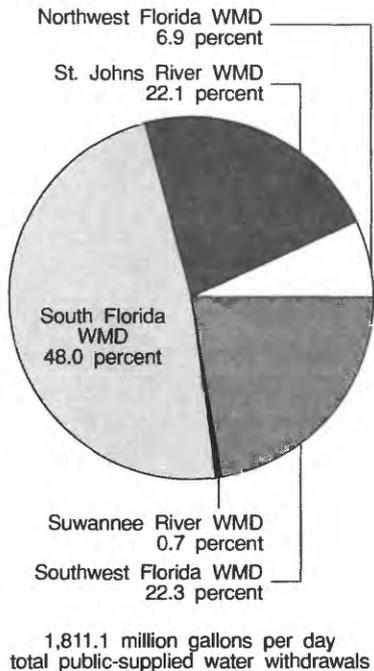


Figure 9. Public-supply water withdrawals by water management district (WMD), 1987.

The estimated permanent population in 1987, by water management district, was: South Florida WMD, 4.76 million (nearly 40 percent of the State's total population); Southwest Florida WMD, 3.12 million (25.9 percent); St. Johns River WMD, 2.92 million (24.2 percent); Northwest Florida WMD, 1.01 million, (8.4 percent); and the Suwannee River WMD, 0.24 million (2.0 percent). Total population served by public supply in 1987, by water management district was: South Florida WMD, 4.39 million; Southwest Florida WMD, 2.76 million; the St. Johns River WMD, 2.40 million; Northwest Florida WMD, 0.75 million; and the Suwannee River WMD, 0.09 million (fig. 10). The Southwest Florida WMD had the lowest public-supply per capita use in 1987 (146 gal/d), followed by the Suwannee

River WMD (148 gal/d). The Northwest Florida WMD and the St. Johns River WMD each had a public-supply per capita use of 167 gal/d, and the South Florida WMD had the highest public-supply per capita use at 197 gal/d.

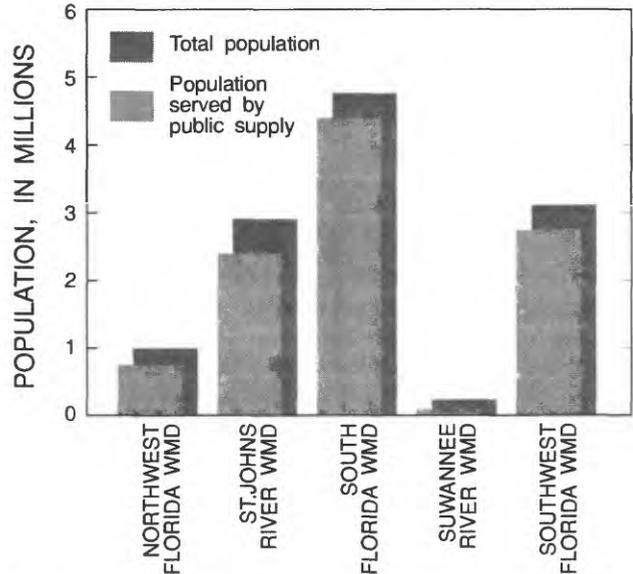


Figure 10. Total population and population served by public-supply in the water management districts (WMD), 1987.

Sources of Water

Ground water was the primary source of public-supply water in all five water management districts for 1987 (fig. 11). All except the Suwannee River WMD also used some surface water with Southwest Florida WMD the largest user (58 percent).

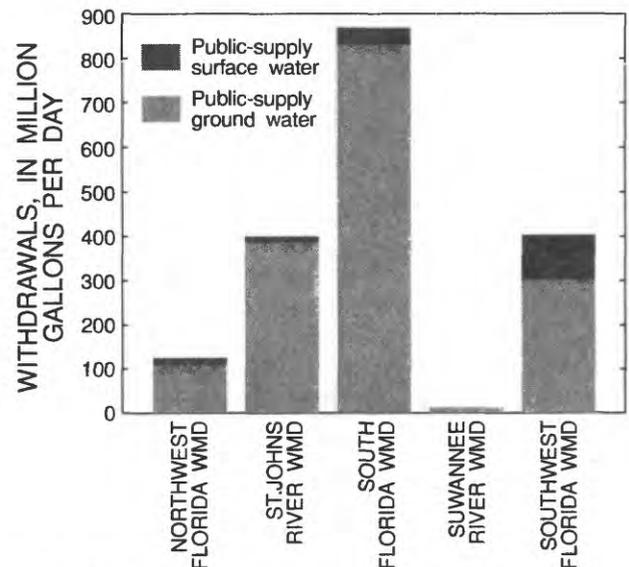


Figure 11. Public-supply water withdrawals by source within water management districts (WMD), 1987.

Table 1. Public-supply net water use by county and water management districts in Florida, 1987

[In million gallons per day]

County	Total Net Water Use	Water use in water management district				
		Northwest Florida	St. Johns River	South Florida	Southwest Florida	Suwannee River
Alachua	21.88	0.00	20.16	0.00	0.00	1.72
Baker	.63	.00	.63	.00	.00	.00
Bay	22.53	22.53	.00	.00	.00	.00
Bradford	1.49	.00	.04	.00	.00	1.45
Brevard	49.18	.00	49.18	.00	.00	.00
Broward	207.64	.00	.00	207.64	.00	.00
Calhoun	.40	.40	.00	.00	.00	.00
Charlotte	10.25	.00	.00	.00	10.25	.00
Citrus	7.79	.00	.00	.00	7.79	.00
Clay	9.92	.00	9.92	.00	.00	.00
Collier	29.30	.00	.00	29.30	.00	.00
Columbia	2.23	.00	.00	.00	.00	2.23
Dade	352.10	.00	.00	352.10	.00	.00
De Soto	.81	.00	.00	.00	.81	.00
Dixie	.60	.00	.00	.00	.00	.60
Duval	94.28	.00	94.28	.00	.00	.00
Escambia	36.76	36.76	.00	.00	.00	.00
Flagler	2.56	.00	2.56	.00	.00	.00
Franklin	1.52	1.52	.00	.00	.00	.00
Gadsden	3.36	3.36	.00	.00	.00	.00
Gilchrist	.40	.00	.00	.00	.00	.40
Glades	.26	.00	.00	.26	.00	.00
Gulf	1.02	1.02	.00	.00	.00	.00
Hamilton	.83	.00	.00	.00	.00	.83
Hardee	1.35	.00	.00	.00	1.35	.00
Hendry	3.16	.00	.00	3.16	.00	.00
Hernando	10.48	.00	.00	.00	10.48	.00
Highlands	7.82	.00	.00	.18	7.64	.00
Hillsborough	105.16	.00	.00	.00	105.16	.00
Holmes	.88	.88	.00	.00	.00	.00
Indian River	11.98	.00	11.98	.00	.00	.00
Jackson	2.47	2.47	.00	.00	.00	.00
Jefferson	.62	.62	.00	.00	.00	.00
Lafayette	.16	.00	.00	.00	.00	.16
Lake	17.66	.00	17.66	.00	.00	.00
Lee	33.53	.00	.00	33.53	.00	.00
Leon	23.06	23.06	.00	.00	.00	.00
Levy	1.33	.00	.00	.00	.45	.88
Liberty	.21	.21	.00	.00	.00	.00
Madison	1.36	.00	.00	.00	.00	1.36
Manatee	24.64	.00	.00	.00	24.64	.00
Marion	13.21	.00	10.90	.00	2.31	.00
Martin	10.11	.00	.00	10.11	.00	.00
Monroe	13.14	.00	.00	13.14	.00	.00
Nassau	3.54	.00	3.54	.00	.00	.00
Okaloosa	18.53	18.53	.00	.00	.00	.00
Okeechobee	2.00	.00	.00	2.00	.00	.00
Orange	116.25	.00	87.41	28.84	.00	.00
Osceola	7.51	.00	.00	7.51	.00	.00
Palm Beach	168.48	.00	.00	168.48	.00	.00
Pasco	23.00	.00	.00	.00	23.00	.00
Pinellas	118.33	.00	.00	.00	118.33	.00
Polk	60.17	.00	.12	.49	59.56	.00
Putnam	3.28	.00	3.28	.00	.00	.00
St. Johns	7.56	.00	7.56	.00	.00	.00
St. Lucie	12.33	.00	.00	12.33	.00	.00
Santa Rosa	9.15	9.15	.00	.00	.00	.00
Sarasota	30.26	.00	.00	.00	30.26	.00
Seminole	40.86	.00	40.86	.00	.00	.00
Sumter	1.13	.00	.00	.00	1.13	.00
Suwannee	1.33	.00	.00	.00	.00	1.33
Taylor	1.59	.00	.00	.00	.00	1.59
Union	.61	.00	.00	.00	.00	.61
Volusia	40.27	.00	40.27	.00	.00	.00
Wakulla	.68	.68	.00	.00	.00	.00
Walton	3.14	3.14	.00	.00	.00	.00
Washington	1.00	1.00	.00	.00	.00	.00
Totals	1,811.07	125.33	400.35	869.07	403.16	13.16

Table 2. Public-supply ground-water withdrawals by principal aquifer in the water management districts, 1987

Water management district	Water withdrawn by principal aquifer, in million gallons per day					Total
	Unnamed surficial	Intermediate	Biscayne	Sand-and-gravel	Floridan aquifer system	
Northwest Florida	0.00	0.00	0.00	43.25	64.59	107.84
St. Johns River	19.08	.00	.00	0.00	365.66	384.74
South Florida	146.93	30.94	613.15	.00	37.41	828.43
Southwest Florida	2.54	14.29	.00	.00	283.68	300.51
Suwannee River	.00	.00	.00	.00	13.16	13.16
Totals	168.55	45.23	613.15	43.25	764.50	1,634.68

The Floridan aquifer system is the primary source of public-supply water in Florida and the St. Johns River WMD accounted for the largest amount of water withdrawn from this aquifer in 1987 (365.7 Mgal/d), followed by the Southwest Florida WMD (283.7 Mgal/d) (table 2). These two WMD accounted for 85 percent of the total water withdrawn from the Floridan aquifer system for public-supply use. The Floridan aquifer system was the source of all of the Suwannee River WMD public-supply water for 1987. The South Florida WMD was the only district with withdrawals from the Biscayne aquifer, and the Northwest Florida WMD was the only district with withdrawals from the sand- and-gravel aquifer (table 2).

Monthly Use

Statewide, withdrawals for public-supply water use increased during 1987 between March and June primarily because of increases in residential use for lawn irrigation and tourism. In all five WMD, public-supply water withdrawals increased between March and June. Peak use of public-supply water for the Northwest Florida WMD--Suwannee River WMD, St. Johns River WMD, and the Southwest Florida WMD occurred in June, however, in the South Florida WMD use peaked in August (fig. 12).

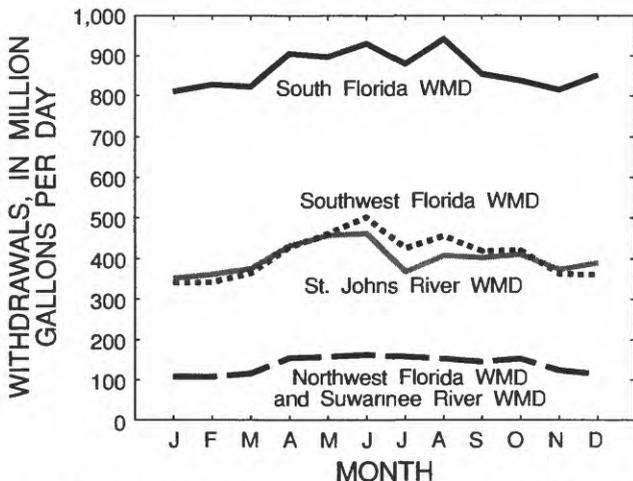


Figure 12. Monthly public-supply water withdrawals in the water management districts (WMD) 1987.

County Totals

Total Use

Public-supply water-use data were collected for all 67 counties in Florida (fig. 2) as each county had at least one public-supply system inventoried for 1987. Dade County withdrew the largest amount of freshwater (365.2 Mgal/d) for public-supply use for 1987, which included nearly 13.2 Mgal/d of water transferred (exported) to neighboring Monroe County. Total or net public-supply water use in Dade County for 1987 was 352.1 Mgal/d and served an estimated 1.73 million people (table 3). Broward County was the second largest user of public-supply water in 1987 (207.6 Mgal/d) and served nearly 1.15 million people. Lafayette and Liberty Counties accounted for the smallest amounts of public-supply water use during 1987, using 0.16 Mgal/d and 0.21 Mgal/d respectively. Collier County had the largest public-supply per capita water use (299 gal/d), and De Soto County had the smallest (102 gal/d) (table 3).

In 1965, the first year public-supply water use was disaggregated on a county level, Dade was the only county using more than 100 Mgal/d (196.4 Mgal/d). In 1987, six counties (Broward, Dade, Hillsborough, Orange, Palm Beach, and Pinellas) used more than 100 Mgal/d (fig. 13) and accounted for 59 percent of the public-supply water use in 1987, compared with almost 64 percent in 1965. All 67 counties increased public-supply water use between 1965 and 1987.

Sources of Water

In 1987, 86 percent (10.4 million) of the population obtained drinking water from a public (or private) water supplier. Public suppliers that withdrew ground water served 9.34 million people. Utilities in Dade County withdrew the largest quantity of ground water in 1987, followed by Broward, Orange, Palm Beach, and Duval Counties (table 4). Manatee, Monroe, and Okeechobee were the only counties where no ground water was withdrawn for public-supply use during 1987, however, Monroe County used ground water imported from

Table 3. Public-supply by population, water use, withdrawals, and transfers, by county, 1987

[Public supply data for selected counties modified from Tuttell and Sorensen, 1989; Marella, 1990a; total population source: Shoemeyen and others, 1988, p. 5-7]

County	Population		Public supply, in million gallons per day (per capita use in gallons per day)						
	Total	Served by public supply	Net water use		Withdrawals			Transfers	
			Total	Per capita	Total	Ground water	Surface water	Imported	Exported
Alachua	179,715	135,572	21.88	161	21.88	21.88	0.00	0.00	0.00
Baker	18,364	4,315	.63	146	.63	.63	.00	.00	.00
Bay	129,679	96,825	22.53	233	22.53	6.47	16.06	.00	.00
Bradford	24,120	8,648	1.49	172	1.49	1.49	.00	.00	.00
Brevard	371,735	330,518	49.18	149	25.69	10.08	15.61	23.49	.00
Broward	1,180,985	1,154,499	207.64	180	207.64	207.64	.00	.00	.00
Calhoun	9,720	2,683	.40	149	.40	.40	.00	.00	.00
Charlotte	88,230	93,426	10.25	110	10.46	3.03	7.43	.00	.21
Citrus	81,863	48,057	7.79	162	7.79	7.79	.00	.00	.00
Clay	95,325	69,687	9.92	142	9.92	9.92	.00	.00	.00
Collier	126,631	97,838	29.30	299	29.30	24.69	4.61	.00	.00
Columbia	41,506	11,774	2.23	189	2.23	2.23	.00	.00	.00
Dade	1,802,427	1,731,374	352.10	203	365.24	365.24	.00	.00	13.14
De Soto	22,890	7,927	.81	102	.79	.79	.00	.02	.00
Dixie	9,866	3,896	.60	154	.60	.60	.00	.00	.00
Duval	664,132	561,345	94.28	168	94.28	94.28	.00	.00	.00
Escambia	278,419	232,225	36.76	158	36.76	36.76	.00	.00	.00
Flagler	19,243	17,502	2.56	146	2.56	2.56	.00	.00	.00
Franklin	8,538	7,663	1.52	198	1.52	1.52	.00	.00	.00
Gadsden	46,187	23,073	3.36	146	3.36	1.93	1.43	.00	.00
Gilchrist	7,098	1,468	.40	272	.40	.40	.00	.00	.00
Glades	7,357	2,254	.26	115	.26	.26	.00	.00	.00
Gulf	12,001	6,389	1.02	160	1.02	1.02	.00	.00	.00
Hamilton	9,355	5,367	.83	155	.83	.83	.00	.00	.00
Hardee	22,095	8,941	1.35	151	1.35	1.35	.00	.00	.00
Hendry	24,572	17,988	3.16	176	3.16	3.16	.00	.00	.00
Hernando	79,718	77,398	10.48	135	10.48	10.48	.00	.00	.00
Highlands	63,540	50,539	7.82	155	7.82	7.82	.00	.00	.00
Hillsborough	801,392	702,915	105.16	150	122.60	63.64	58.96	.00	17.44
Holmes	16,289	4,461	.88	197	.88	.88	.00	.00	.00
Indian River	83,515	49,207	11.98	243	11.98	11.98	.00	.00	.00
Jackson	43,729	15,740	2.47	157	2.47	2.47	.00	.00	.00
Jefferson	11,924	2,898	.62	214	.62	.62	.00	.00	.00
Lafayette	5,053	938	.16	171	.16	.16	.00	.00	.00
Lake	137,138	91,493	17.66	193	17.66	17.66	.00	.00	.00
Lee	293,713	234,202	33.53	143	33.53	30.96	2.57	.00	.00
Leon	176,470	138,240	23.06	167	23.06	23.06	.00	.00	.00
Levy	23,879	7,841	1.33	170	1.33	1.33	.00	.00	.00
Liberty	4,974	1,366	.21	154	.21	.21	.00	.00	.00
Madison	15,858	6,390	1.36	213	1.36	1.36	.00	.00	.00
Manatee	181,684	178,491	24.64	138	34.93	.00	34.93	.00	10.29
Marion	174,614	82,533	13.21	160	13.21	13.21	.00	.00	.00
Martin	88,964	51,955	10.11	195	10.11	10.11	.00	.00	.00
Monroe	74,523	73,500	13.14	179	.00	.00	.00	13.14	.00
Nassau	43,994	20,735	3.54	171	3.54	3.54	.00	.00	.00
Okaloosa	149,033	117,492	18.53	158	18.53	18.53	.00	.00	.00
Okeechobee	27,745	15,240	2.00	131	2.00	.00	2.00	.00	.00
Orange	603,339	586,968	116.25	198	139.74	139.74	.00	.00	23.49
Osceola	87,556	54,396	7.51	138	7.51	7.51	.00	.00	.00
Palm Beach	769,533	759,846	168.48	222	168.48	137.02	31.46	.00	.00
Pasco	254,696	210,669	23.00	109	83.87	83.87	.00	1.24	62.11
Pinellas	828,700	846,348	118.33	140	40.02	40.02	.00	79.55	1.24
Polk	369,056	312,880	60.17	192	60.17	60.17	.00	.00	.00
Putnam	62,476	20,831	3.28	157	3.28	3.28	.00	.00	.00
St. Johns	75,133	58,132	7.56	130	7.56	7.56	.00	.00	.00
St. Lucie	128,381	81,503	12.33	151	12.33	12.33	.00	.00	.00
Santa Rosa	66,221	64,608	9.15	142	9.15	9.15	.00	.00	.00
Sarasota	251,253	199,358	30.26	152	19.78	18.45	1.33	10.48	.00
Seminole	254,837	231,550	40.86	176	40.86	40.86	.00	.00	.00
Sumter	29,307	9,704	1.13	116	1.13	1.13	.00	.00	.00
Suwannee	26,231	8,689	1.33	153	1.33	1.33	.00	.00	.00
Taylor	18,775	10,519	1.59	151	1.59	1.59	.00	.00	.00
Union	10,722	4,000	.61	153	.61	.61	.00	.00	.00
Volusia	330,839	290,994	40.27	138	40.27	40.27	.00	.00	.00
Wakulla	13,695	6,156	.68	110	.68	.68	.00	.00	.00
Walton	27,509	24,647	3.14	127	3.14	3.14	.00	.00	.00
Washington	15,447	6,685	1.00	150	1.00	1.00	.00	.00	.00
Totals	12,043,608	10,393,311	1,811.07	174	1,811.07	1,634.68	176.39	127.92	127.92

neighboring Dade County. Surface water for public supply was used in only 12 counties and served 1.06 million people. Hillsborough County was the largest user of surface water in 1987, followed by Manatee and Palm Beach Counties (table 4). Manatee and Okeechobee were the only counties that depended solely on surface water for public-supply needs.

The Floridan aquifer system is the primary source of ground water for public supply in Florida (fig. 5). The

largest public-supply withdrawals from the Floridan aquifer system during 1987 were in Orange (139.7 Mgal/d), Duval (94.3 Mgal/d), Pasco (83.9 Mgal/d), and Hillsborough (63.6 Mgal/d) Counties (table 4). Public-supply withdrawals in these four counties accounted for nearly 50 percent of the public-supply withdrawals from the Floridan aquifer system in Florida. Public suppliers in Palm Beach County withdrew the largest quantity of water from

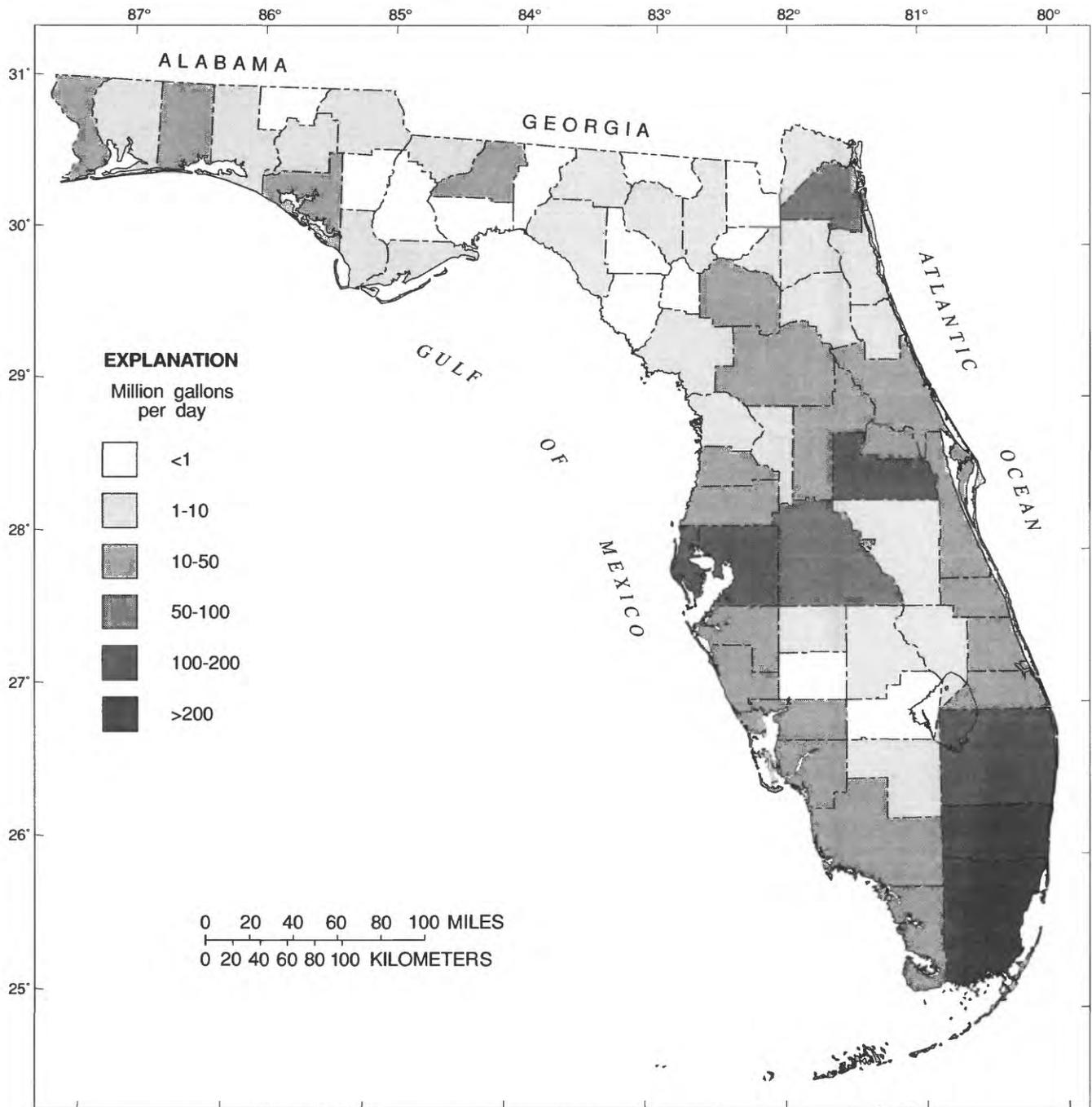


Figure 13. Public-supply net water use by county, 1987.

Table 4. Public-supplied population and withdrawals by water source, by county, 1987

County	Population served and water withdrawn by source, in million gallons per day								Population served	Total withdrawn	Name of water body
	Population and ground water withdrawals from principal aquifers						Population and surface water withdrawals from primary source				
	Population served	Total withdrawn	Sur-ficial	Inter-mediate	Bis-cayne	Sand-and-gravel	Floridan aquifer system	Population served			
Alachua	135,572	21.88	0.00	0.00	0.00	0.00	21.88	0	0.00		
Baker	4,315	.63	.00	.00	.00	.00	.63	0	.00		
Bay	33,852	6.47	.00	.00	.00	.00	6.47	62,973	16.06	Deer Point Lake	
Bradford	8,648	1.49	.00	.00	.00	.00	1.49	0	.00		
Brevard	203,628	10.08	4.26	.00	.00	.00	5.82	126,890	15.61	Lake Washington	
Broward	1,154,499	207.64	.00	.00	207.64	.00	.00	0	.00		
Calhoun	2,683	.40	.00	.00	.00	.00	.40	0	.00		
Charlotte	35,202	3.03	1.70	.89	.00	.00	.44	58,224	7.43	Peace River/Shell Creek	
Citrus	48,057	7.79	.00	.00	.00	.00	7.79	0	.00		
Clay	69,687	9.92	.00	.00	.00	.00	9.92	0	.00		
Collier	88,529	24.69	17.43	7.26	.00	.00	.00	9,309	4.61	Warren Brothers Pit	
Columbia	11,774	2.23	.00	.00	.00	.00	2.23	0	.00		
Dade	1,731,374	365.24	.00	.00	365.24	.00	.00	0	.00		
De Soto	7,787	.79	.00	.79	.00	.00	.00	140	.00	See Charlotte County	
Dixie	3,896	.60	.00	.00	.00	.00	.60	0	.00		
Duval	561,345	94.28	.00	.00	.00	.00	94.28	0	.00		
Escambia	232,225	36.76	.00	.00	.00	36.76	.00	0	.00		
Flagler	17,502	2.56	1.74	.00	.00	.00	.82	0	.00		
Franklin	7,663	1.52	.00	.00	.00	.00	1.52	0	.00		
Gadsden	14,444	1.93	.00	.00	.00	.00	1.93	8,629	1.43	Quincy Creek	
Gilchrist	1,468	.40	.00	.00	.00	.00	.40	0	.00		
Glades	2,254	.26	.00	.26	.00	.00	.00	0	.00		
Gulf	6,389	1.02	.00	.00	.00	.00	1.02	0	.00		
Hamilton	5,367	.83	.00	.00	.00	.00	.83	0	.00		
Hardee	8,941	1.35	.00	.00	.00	.00	1.35	0	.00		
Hendry	17,988	3.16	2.98	.18	.00	.00	.00	0	.00		
Hernando	77,398	10.48	.00	.00	.00	.00	10.48	0	.00		
Highlands	50,539	7.82	.00	.00	.00	.00	7.82	0	.00		
Hillsborough	316,655	63.64	.00	.00	.00	.00	63.64	386,260	58.96	Hillsborough River	
Holmes	4,461	.88	.00	.00	.00	.00	.88	0	.00		
Indian River	49,207	11.98	8.59	.00	.00	.00	3.39	0	.00		
Jackson	15,740	2.47	.00	.00	.00	.00	2.47	0	.00		
Jefferson	2,898	.62	.00	.00	.00	.00	.62	0	.00		
Lafayette	938	.16	.00	.00	.00	.00	.16	0	.00		
Lake	91,493	17.66	.00	.00	.00	.00	17.66	0	.00		
Lee	210,912	30.96	7.72	23.24	.00	.00	.00	23,290	2.57	Caloosahatchee River	
Leon	138,240	23.06	.00	.00	.00	.00	23.06	0	.00		
Levy	7,841	1.33	.00	.00	.00	.00	1.33	0	.00		
Liberty	1,366	.21	.00	.00	.00	.00	.21	0	.00		
Madison	6,390	1.36	.00	.00	.00	.00	1.36	0	.00		
Manatee	0	.00	.00	.00	.00	.00	.00	178,491	34.93	Manatee River/Bradley River	
Marion	82,533	13.21	.00	.00	.00	.00	13.21	0	.00		
Martin	51,955	10.11	9.87	.00	.00	.00	.24	0	.00		
Monroe	73,500	.00	.00	.00	.00	.00	.00	0	.00		
Nassau	20,735	3.54	.00	.00	.00	.00	3.54	0	.00		
Okaloosa	117,492	18.53	.00	.00	.00	.00	18.53	0	.00		
Okeechobee	0	.00	.00	.00	.00	.00	.00	15,240	2.00	Lake Okeechobee	
Orange	586,968	139.74	.00	.00	.00	.00	139.74	0	.00		
Osceola	54,396	7.51	.00	.00	.00	.00	7.51	0	.00		
Palm Beach	647,528	137.02	96.75	.00	40.27	.00	.00	112,318	31.46	Lake Okeechobee/Lake Clear	
Pasco	210,669	83.87	.00	.00	.00	.00	83.87	0	.00		
Pinellas	846,348	40.02	.00	.00	.00	.00	40.02	0	.00		
Polk	312,880	60.17	.00	.00	.00	.00	60.17	0	.00		
Putnam	20,831	3.28	.00	.00	.00	.00	3.28	0	.00		
St. Johns	58,132	7.56	4.49	.00	.00	.00	3.07	0	.00		
St. Lucie	81,503	12.33	12.18	.00	.00	.00	.15	0	.00		
Santa Rosa	64,608	9.15	.00	.00	.00	6.49	2.66	0	.00		
Sarasota	122,585	18.45	.84	12.61	.00	.00	5.00	76,773	1.33	Myakka River	
Seminole	231,550	40.86	.00	.00	.00	.00	40.86	0	.00		
Sumter	9,704	1.13	.00	.00	.00	.00	1.13	0	.00		
Suwannee	8,689	1.33	.00	.00	.00	.00	1.33	0	.00		
Taylor	10,519	1.59	.00	.00	.00	.00	1.59	0	.00		
Union	4,000	.61	.00	.00	.00	.00	.61	0	.00		
Volusia	290,994	40.27	.00	.00	.00	.00	40.27	0	.00		
Wakulla	6,156	.68	.00	.00	.00	.00	.68	0	.00		
Walton	24,647	3.14	.00	.00	.00	.00	3.14	0	.00		
Washington	6,685	1.00	.00	.00	.00	.00	1.00	0	.00		
Totals	9,334,774	1,634.68	168.55	45.23	613.15	43.25	764.50	1,058,537	176.39		

the unnamed surficial aquifer (96.8 Mgal/d), and public suppliers in Lee County withdrew the largest quantity of water from the intermediate aquifer (23.2 Mgal/d). Only public suppliers in Broward, Dade, and Palm Beach Counties withdrew water from the Biscayne aquifer, and public suppliers in Escambia and Santa Rosa Counties used the sand-and-gravel aquifer. The general extent of these aquifers are shown in figure 14.

To make potable water available, public suppliers in several counties import water from adjacent counties to help

meet demands. In 1987, an estimated 127.9 Mgal/d of public-supplied water was withdrawn from one county for use in another county (table 3). Of the six counties that imported water in 1987, Monroe County imported 100 percent of its water used for public supply from neighboring Dade County, and Pinellas County imported 67 percent of its water used for public supply from adjacent Hillsborough and Pasco Counties. Other counties involved in importing or exporting public-supply water during 1987 include Brevard, Charlotte, De Soto, Manatee, Orange, and

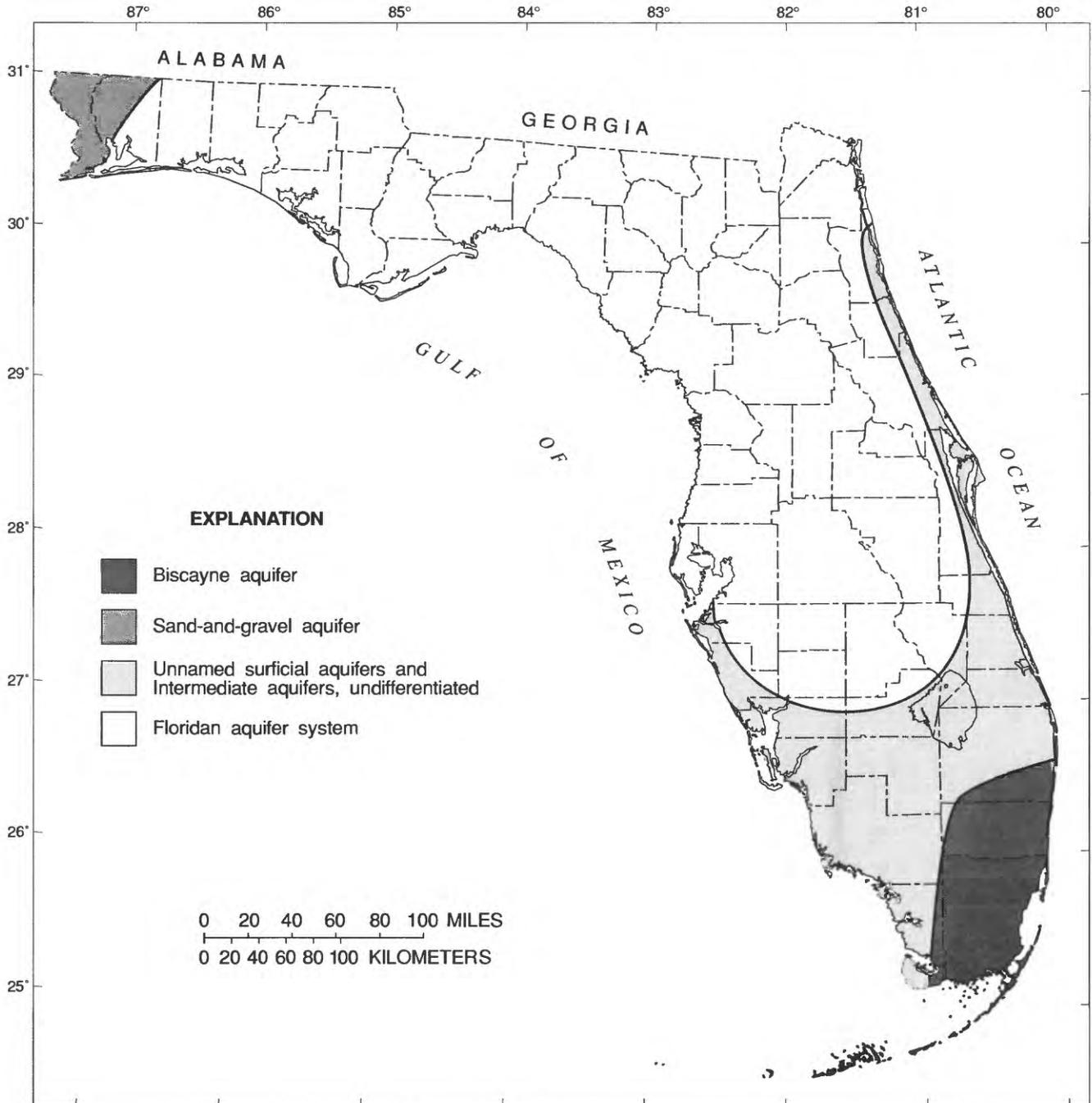


Figure 14. General location of principal aquifers. (Modified from Vecchioli and Foose, 1984.)

Sarasota (table 3). Additionally, several counties rely on treating water to meet FDER standards. The use of R/O or diluted ground water to meet standards for potable water occurred in 41 utilities inventoried in nine counties (Brevard, Charlotte, Indian River, Lee, Martin, St. Johns, St. Lucie, Sarasota, and Volusia) for 1987, and totaled 37.4 Mgal/d.

The utilities inventoried for 1987 are presented by county in tables 5 through 71. These tables list water source, public-supply water use, population served, per capita use, and WMD jurisdiction by utility. For example, table 5 shows that the public supply for the city of Alachua (Alachua County) used 0.44 Mgal/d, obtained from the Floridan aquifer system, served 4,622 people, had a per capita use of 95 gal/d and is in the Suwannee River WMD jurisdiction. The Miami-Dade Water and Sewer Authority (Dade County) is the largest public-water supplier in the State, using 321.61 Mgal/d and serving 1,536,814 people in 1987 (table 17). The location of each county is shown in figure 2.

SUMMARY

For 1987, public-supply water-use data (including use, population and per capita use were collected for 939 public water systems or 696 utilities-suppliers in Florida. The systems inventoried were those that served 400 people or more or withdrew more than 10,000 gallons of water per day (0.01 M/gal/d). Water withdrawn for public-supply use in Florida from the 696 utilities inventoried totaled 1,811.1 Mgal/d and was delivered for residential, commercial, industrial, and other uses. The utilities inventoried served nearly 10.4 million residents. The statewide average per capita water use for 1987 was 174 gal/d. Ground water was the source of 90 percent (1,634.7 Mgal/d) of the public-supply water withdrawn in 1987 and served nearly 9.34 million residents. The Floridan aquifer system was the source of 46.8 percent of the ground-water withdrawals for public supply; the Biscayne aquifer was the source of 37.5 percent, and the remainder of public ground-water withdrawals were from the unnamed surficial, intermediate, and the sand-and-gravel aquifers. Public-supply withdrawals peaked in June at 2,050.0 Mgal/d, whereas in January, withdrawals were nearly 440.0 Mgal/d less (1,610.0 Mgal/d). Statewide, the use of public-supply water increased between March and June because of an increase in residential use, primarily for lawn irrigation, and increases in tourism.

The population of Florida increased (from 4.95 million in 1960 to more than 12.0 million) in 1987 143 percent, and the percentage of the population served by public-supply increased from 68 percent in 1960 to 86 percent in 1987. Public-supply water use in Florida increased 242 percent (1,281.1 Mgal/d) between 1960 and 1987.

The South Florida WMD accounted for 48.0 percent of the State's total water withdrawals for public-supply use in 1987. The Southwest Florida WMD and the St. Johns River WMD accounted for 22.3 and 22.1 percent of the water withdrawn for the public-supply use respectively, followed by the Northwest Florida WMD (6.9 percent) and the Suwannee River WMD (0.7 percent). Population served by public supply in the South Florida WMD totaled 4.39 million, followed by the Southwest Florida WMD (2.76 million), the St. Johns River WMD (2.40 million), the Northwest Florida WMD (0.75 million), and the Suwannee River WMD (0.09 million).

Ground water was the primary source of public-supply water for all five WMD in 1987. All of the districts except the Suwannee River WMD used some surface water for public-supply sources. The Southwest Florida WMD accounted for 58 percent of surface water withdrawn for public-supply use. Public suppliers in the St. John River WMD accounted for the largest amount of water withdrawn from the Floridan aquifer system in 1987 (365.7 Mgal/d), followed by the Southwest Florida WMD (283.7 Mgal/d). The South Florida WMD was the only district with withdrawals from the Biscayne aquifer, and the Northwest Florida WMD was the the only district with withdrawals from the sand-and-gravel aquifer.

Total public-supply water used in Dade County was 352.1 Mgal/d and served more than 1.73 million people. Broward County was the second largest user of public-supply water in 1987 (207.6 Mgal/d) and served nearly 1.15 million people. Lafayette and Liberty Counties accounted for the smallest amount of public-supply water use during 1987, with 0.16 Mgal/d and 0.21 Mgal/d, respectively. Collier County had the largest public-supply per capita water use (299 gal/d), and De Soto County had the smallest (102 gal/d).

Ground water was used for public supply in all but two counties during 1987. Dade County withdrew the largest amount of fresh ground water for public-supply use (365.2 Mgal/d), and Hillsborough County withdrew the largest amount of fresh surface water in 1987 (59.0 Mgal/d). Manatee and Okeechobee were the only counties that depended solely on surface water for public supply needs.

The largest public-supply withdrawals from the Floridan aquifer system during 1987 were in Orange (139.7 Mgal/d), Duval (94.3 Mgal/d), Pasco (83.9 Mgal/d), and Hillsborough (63.6 Mgal/d) Counties. Palm Beach County (96.8 Mgal/d) was the largest user of ground water from the unnamed surficial aquifer and Lee County (23.2 Mgal/d) withdrew the largest amount of water from the intermediate aquifer for public-supply use. Only Broward, Dade, and Palm Beach Counties withdrew public-supply water from the Biscayne aquifer, and Escambia and Santa Rosa Counties withdrew from the sand-and-gravel aquifer for public-supply use.

Table 5.--Alachua County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; SRWMD, Suwannee River Water Management District; SJRWMD, St. Johns River Water Management District]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Alachua, city of	F	0.44	4,622	95	SRWMD	Population includes 8,165 who live in the SRWMD.
Archer, town of	F	.20	1,390	144	SRWMD	
Arredondo Utilities	F	.07	1,180	59	SJRWMD	
Gainesville Regional Utility	F	19.69	116,650	169	SJRWMD	
Hawthorne, city of	F	.22	1,279	172	SJRWMD	
High Springs, city of	F	.36	2,753	131	SRWMD	
Kincaid Hills Utilities	F	.11	1,000	110	SJRWMD	
Micanopy, town of	F	.07	782	90	SJRWMD	
Newberry, city of	F	.27	2,115	128	SRWMD	
Turkey Creek Utilities	F	.35	2,500	140	SRWMD	
Waldo, city of	F	.10	1,301	77	SRWMD	
Totals		21.88	135,572	161		

Table 6.--Baker County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; SJRWMD, St. Johns River Water Management District; S/D, sub division]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Macclenny, city of	F	0.61	4,185	146	SJRWMD	
Macclenny S/D	F	.02	130	154	SJRWMD	
Totals		.63	4,315	146		

Table 7.--Bay County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; NWFWMD, Northwest Florida Water Management District MHP, mobile home park; F, Floridan aquifer system]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Bay County Water System ^{1,2}	Deer Point Lake	16.06	62,973	255	NWFWMD	Supplies water to several utilities
Bay Pines MHP	F	.01	160	63	NWFWMD	
Lynn Haven, city of	F	1.16	9,308	125	NWFWMD	
Mexico Beach, city of	F	.33	1,202	275	NWFWMD	
Panama City Beach, city of	F	4.97	23,182	214	NWFWMD	
Totals		22.53	96,825	233		

¹Supplies water to Callaway, Cedar Grove, Panama City, Parker, Springfield, and Woodlawn.
²Also supplies water to Southwest Forest Industries, but water use is not included in these totals.

Table 8.--Bradford County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; SRWMD, Suwannee River Water Management District; SJRWMD, St. Johns River Water Management District]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Brooker, town of	F	0.03	346	87	SRWMD	
Geneva Lake Estates	F	.04	300	133	SRWMD	
Hampton, town of	F	.06	444	135	SRWMD	
Keystone Club Estates	F	.04	340	118	SJRWMD	
Lawtey, city of	F	.19	709	268	SRWMD	
Starke, city of	F	1.13	6,509	174	SRWMD	
Totals		1.49	8,648	172		

Table 9.--Brevard County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; SJRWMD, St. Johns River Water Management District; R/O, reverse osmosis; U, unnamed surficial aquifers; GDU, General Development Utilities]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Quartrina Utilities	F	0.02	170	118	SJRWMD	R/O treated.
Water Utilities	U	.57	5,477	104	SJRWMD	
ocoa Water System	F	23.49	123,673	190	SJRWMD	Withdrawal is in Orange County.
elbourne, city of	Lake Washington	15.61	126,890	123	SJRWMD	
orth Brevard Utilities	F	.57	5,500	104	SJRWMD	
DU - Palm Bay	U	3.76	27,165	138	SJRWMD	Includes 0.07 Mgal/d from the F.
outh Brevard Utilities	F	.04	430	93	SJRWMD	R/O treated.
itusville, city of	F	5.12	41,213	124	SJRWMD	
Totals		49.18	330,518	149		

Table 10.--Broward County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; B, Biscayne aquifer; SFWMD, South Florida Water Management District; I/D, Improvement District]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
roadview Park Water System	B	0.68	6,751	101	SFWMD	
roward County Utilities	B	28.97	152,777	190	SFWMD	
ooper City	B	2.04	14,974	136	SFWMD	Systems 1 and 2.
oral Springs, city of	B	4.97	23,113	215	SFWMD	
oral Springs I/D	B	3.52	34,931	101	SFWMD	
ania, city of	B	2.06	13,471	153	SFWMD	
avie, town of	B	2.48	22,794	109	SFWMD	
eerfield Beach, city of	B	10.14	44,313	229	SFWMD	
erncrest Utilities	B	.37	4,995	74	SFWMD	
ort Lauderdale, city of	B	52.75	215,194	245	SFWMD	
allandale, city of	B	5.64	39,749	142	SFWMD	
illsboro Beach, town of	B	.96	3,000	320	SFWMD	
ollywood, city of	B	20.48	128,817	159	SFWMD	
auderhill, city of	B	7.25	44,122	164	SFWMD	
argate, city of	B	6.59	46,901	141	SFWMD	
irammar, city of	B	3.34	37,603	89	SFWMD	
orth Lauderdale, city of	B	2.71	23,873	114	SFWMD	
orth Springs I/D	B	.26	1,245	209	SFWMD	
cean Way Water System	B	.11	643	171	SFWMD	
arkland Utilities	B	.08	548	146	SFWMD	
embroke Pines, city of	B	5.59	48,558	115	SFWMD	
lantation, city of	B	9.48	49,802	190	SFWMD	Systems 1 and 2.
ompano Beach, city of	B	18.76	70,496	266	SFWMD	
oyal Utilities	B	.18	1,000	180	SFWMD	
eminole Indian Reservation	B	.32	3,300	97	SFWMD	
outh Broward Utilities	B	.22	2,310	95	SFWMD	
unrise, city of	B	12.59	82,260	153	SFWMD	Sunrise systems 1,2,3, and 4.
amarac, city of	B	5.10	36,959	138	SFWMD	
Totals		207.64	1,154,499	180		

Table 11.--Calhoun County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; NWFWMD, Northwest Florida Water Management District]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
ountstown, city of	F	0.40	2,683	149	NWFWMD	
Totals		.40	2,683	149		

Table 12.--Charlotte County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; I, Intermediate aquifer; SWFWMD, Southwest Florida Water Management District; R/O, reverse osmosis; W/A, Water Association F, Floridan aquifer system; U, unnamed surficial aquifers; GDU, General Development Utilities; N/A, data not available]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Charlotte Harbor Utility	I	0.03	405	62	SWFWMD	R/O treated.
Charlotte Harbor W/A	F	.44	4,500	98	SWFWMD	R/O treated.
Englewood Water District	I and U	1.26	18,580	68	SWFWMD	R/O treated.
Gasparilla Pines	I and U	.10	1,000	103	SWFWMD	R/O treated.
Gasparilla Isle W/A	U	.69	3,200	215	SWFWMD	Purchased 0.24 Mgal/d from GDU.
GDU - Port Charlotte	Peace River	4.26	39,664	107	SWFWMD	Sold 1.49 Mgal/d to other utilities ¹ .
Harbor Lakes Water System	N/A	.00	0	0	SWFWMD	Not in service during 1987.
Burnt Store Utilities	I and U	.13	854	148	SWFWMD	R/O treated.
Deep Creek Utilities	GDU	.24	2,326	104	SWFWMD	Purchased 0.24 Mgal/d from GDU.
Punta Gorda, city of	Shell Creek	2.45	18,560	132	SWFWMD	
Riverwood Development	GDU	.01	176	51	SWFWMD	Purchased 0.01 Mgal/d from GDU.
Rotunda West Utilities	U and I	.63	3,973	160	SWFWMD	
Sandhill Properties	GDU	.01	124	48	SWFWMD	Purchased 0.01 Mgal/d from GDU.
Seven Vistas/Aqua Garden	GDU	.01	64	78	SWFWMD	Purchased 0.01 Mgal/d from GDU.
Totals		10.25	93,426	110		

¹Includes 0.98 Mgal/d exported to De Soto and Sarasota Counties.

Table 13.--Citrus County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; SWFWMD, Southwest Florida Water Management District; W/A, Water Association]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Cinnamon Ridge Utility	F	0.04	300	117	SWFWMD	
Citrus County Utilities	F	.67	2,441	274	SWFWMD	
Citrus Springs Utility	F	.56	3,318	170	SWFWMD	
Connell Lake Estates	F	.03	92	293	SWFWMD	
Constate Utilities	F	.03	174	149	SWFWMD	
Crystal River, city of	F	.66	6,000	110	SWFWMD	
Floral City W/A	F	.20	3,647	54	SWFWMD	
Homosassa Water District	F	.67	4,803	139	SWFWMD	
Inverness, city of	F	.89	8,307	107	SWFWMD	
Inverness Utilities	F	.01	67	194	SWFWMD	
Inverness Village	F	.01	175	63	SWFWMD	
Marion Utilities	F	.01	17	294	SWFWMD	
Ozello W/A	F	.24	2,417	98	SWFWMD	
Point-O-Woods Utilities	F	.07	502	139	SWFWMD	
Twin County Utilities	F	1.25	4,984	251	SWFWMD	
Rolling Oaks Utilities	F	2.36	10,010	236	SWFWMD	
Royal Oaks at Inverness	F	.03	8	3,750	SWFWMD	
Southern States Utilities	F	.08	795	94	SWFWMD	
Totals		7.79	48,057	162		

Table 14.--Clay County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; SJRWMD, St. Johns River Water Management District]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Clay Utility Corporation	F	0.70	6,500	107	SJRWMD	
Duval Utility Corporation	F	.04	250	156	SJRWMD	
Green Cove Springs, city of	F	.71	4,432	159	SJRWMD	
Keystone Heights, city of	F	.39	2,640	149	SJRWMD	
Kingsley Service Company	F	6.23	42,644	146	SJRWMD	
Lake Asbury Utilities	F	.15	1,566	96	SJRWMD	
Magnolia Springs Utility	F	.08	800	100	SJRWMD	
Orange Park, town of	F	1.47	9,685	151	SJRWMD	
Penny Retirement Community	F	.04	220	182	SJRWMD	
Penny Farms, town of	F	.09	450	200	SJRWMD	
Ravines Village & Resort	F	.03	500	60	SJRWMD	
Totals		9.92	69,687	142		

Table 15.--Collier County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; I, Intermediate aquifer; SFWMD, South Florida Water Management District; N/A, data not available; W/A, Water Association; I/D, Improvement District; U, unnamed surficial aquifers;]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Collier County Utilities	I	3.98	27,537	145	SFWMD	
Copeland W/A	U	.04	300	133	SFWMD	
East Naples	I	.35	739	474	SFWMD	The Glades.
Everglades City	I	.09	789	114	SFWMD	
Florida Cities Water Company	I	.75	4,051	185	SFWMD	Golden Glades.
Immokalee Utilities	I	1.98	14,287	139	SFWMD	
Marco Island Utilities	Warren Brothers Pit	4.54	8,792	516	SFWMD	
Naples, city of	U	17.04	39,506	431	SFWMD	Includes 2,418 population served at Pelican Bay.
North Naples	U	.14	400	350	SFWMD	
Pelican Bay I/D	I	.11	-	N/A	SFWMD	Supplied water by the city of Naples as of 3/87.
Pelican Utilities	Warren Brothers Pit	.07	517	135	SFWMD	Marco shores
Port of Islands	U	.13	360	361	SFWMD	
Sandy Ridge Labor Camp	U	.02	200	100	SFWMD	
Wyndemere	U	.06	360	167	SFWMD	
Totals		29.30	97,838	299		

Table 16.--Columbia County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; S/D, sub division; F, Floridan aquifer system; SRWMD, Suwannee River Water Management District]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Azalea Park S/D	F	0.04	220	182	SRWMD	
Belaire Water System	F	.03	254	114	SRWMD	
Clayton Smith S/D	F	.03	212	142	SRWMD	
Gatortown Utilities	F	.06	262	229	SRWMD	
Lake City Water System	F	1.93	9,625	201	SRWMD	
Melton Bishop S/D	F	.13	1,040	125	SRWMD	
Woodgate Village Water System	F	.01	151	66	SRWMD	
Totals		2.23	11,774	189		

Table 17.--Dade County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; B, Biscayne aquifer; SFWMD, South Florida Water Management District]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Florida City, city of	B	2.16	6,372	339	SFWMD	
Homestead, city of	B	6.60	23,886	276	SFWMD	
Miami-Dade Water and Sewer Authority	B	321.61	1,536,814	209	SFWMD	
North Miami, city of	B	7.69	43,180	178	SFWMD	
North Miami Beach, city of	B	14.04	106,447	132	SFWMD	
Opa-Locka, city of	B	.00	14,675	0	SFWMD	Supplied water by Miami-Dade Water and Sewer Authority
Totals		352.10	1,731,374	203		

Table 18.--De Soto County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; I, Intermediate aquifer; SWFWMD, Southwest Florida Water Management District; GDU, General Development Utilities]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Arcadia, city of	I	0.79	7,787	101	SWFWMD	
Lazy Suzy Utilities	GDU-Charlotte Co.	.02	140	143	SWFWMD	Purchased 0.02 Mgal/d from GDU.
Totals		.81	7,927	102		

Table 19.--Dixie County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; SRWMD, Suwannee River Water Management District]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Cross City Water System	F	0.52	2,945	177	SRWMD	
Suwannee Water Association	F	.08	951	84	SRWMD	
Totals		.60	3,896	154		

Table 20.--Duval County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; SJRWMD, St. Johns River Water Management District; MHP, mobile home park; S/D, subdivision]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Atlantic Beach, city of	F	2.64	12,695	208	SJRWMD	
Baldwin, city of	F	.23	1,766	130	SJRWMD	
Beauclerc Utilities	F	.69	6,670	103	SJRWMD	
Canal Utilities	F	1.67	6,800	246	SJRWMD	
Colony MHP	F	.10	962	104	SJRWMD	
Commercial Utilities	F	.11	1,200	94	SJRWMD	Colonial MHP.
Dulay Utilities	F	.35	3,065	114	SJRWMD	
Duval Utilities	F	.36	1,900	191	SJRWMD	
Harbor View S/D	F	.19	2,100	92	SJRWMD	
Jacksonville Beach, city of	F	3.63	18,849	193	SJRWMD	
Jacksonville, city of	F	66.23	388,942	170	SJRWMD	Includes Mandarin Utilities ¹ .
Jacksonville Suburban Utilities	F	10.46	73,872	142	SJRWMD	
Lamplighter MHP	F	.13	735	180	SJRWMD	
Londontown Apartments	F	.16	1,125	139	SJRWMD	
Mayport Water System	F	.08	400	200	SJRWMD	
Neighborhood Utilities	F	.04	543	76	SJRWMD	Timber Creek.
Neptune Beach, city of	F	1.24	6,425	193	SJRWMD	
Normandy Estates Water System	F	.10	500	202	SJRWMD	
Normandy Village Utility	F	.40	2,912	138	SJRWMD	
Ortega Utilities	F	.90	4,423	203	SJRWMD	
Regency Utilities	F	.75	4,900	153	SJRWMD	
Shadowrock Utilities	F	.22	1,250	177	SJRWMD	Springtree.
Southern Gulf Utilities	F	.44	2,896	152	SJRWMD	
Southern States Utilities	F	1.90	9,000	211	SJRWMD	
Southside Utilities	F	1.11	6,640	167	SJRWMD	Deerwood.
Wonderwood MHP	F	.13	775	168	SJRWMD	
Totals		94.28	561,345	168		

¹Mandarin Utilities was acquired by the city of Jacksonville during 1987.

Table 21.--Escambia County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; S, Sand-and-gravel aquifer; NWFWMD, Northwest Florida Water Management District]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Bratt-Davisville Utility	S	0.31	2,146	144	NWFWMD	
Central Water Works	S	.25	2,253	111	NWFWMD	
Corry Field	S	1.02	10,000	102	NWFWMD	Public housing (U.S. Navy).
Cottage Hill Water Works	S	.28	2,279	123	NWFWMD	
Escambia County Utilities	S	30.27	178,567	170	NWFWMD	
Farm Hill Utilities	S	.24	2,438	98	NWFWMD	
Gonzalez Utilities	S	.32	2,571	124	NWFWMD	
Milino Utilities	S	.39	3,445	113	NWFWMD	
Navarre Beach Utilities	S	.29	1,733	167	NWFWMD	
Peoples Water Service	S	2.44	21,000	116	NWFWMD	
Santa Rosa Island Water System	S	.74	4,163	178	NWFWMD	
Walnut Hill Water Works	S	.21	1,630	129	NWFWMD	
Totals		36.76	232,225	158		

Table 22.--Flagler County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; SJRWMD, St. Johns River Water Management District; U, unnamed surficial aquifers]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Beverly Beach Utility	F	0.03	411	73	SJRWMD	
Bunnell, city of	F	.29	2,104	138	SJRWMD	
Flagler Beach, city of	F	.46	3,246	142	SJRWMD	
Plantation Bay	F	.04	241	166	SJRWMD	
Palm Coast Utilities	U	1.74	11,500	151	SJRWMD	
Totals		2.56	17,502	146		

Table 23.--Franklin County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; NWFWMD, Northwest Florida Water Management District]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Alligator Point Water District	F	0.09	762	118	NWFWMD	
Apalachicola, city of	F	.64	2,627	244	NWFWMD	
Carrabelle, town of	F	.20	1,335	150	NWFWMD	
Eastpoint Water District	F	.16	1,039	154	NWFWMD	
Lanark Village Water Utility	F	.20	550	364	NWFWMD	
St. George Island Utility	F	.23	1,350	170	NWFWMD	
Totals		1.52	7,663	198		

Table 24.--Gadsden County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; NWFWMD, Northwest Florida Water Management District; MHP, mobile home park]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Chattahoochee, city of	F	0.52	3,682	141	NWFWMD	
Greensboro, town of	F	.07	582	120	NWFWMD	
Gretna, town of	F	.25	1,650	152	NWFWMD	
Havana, city of	F	.64	3,500	183	NWFWMD	
McLendon's MHP	F	.02	180	111	NWFWMD	
Quincy, city of	Quincy Creek	1.43	8,629	166	NWFWMD	
Talquin Electric & Water	F	.43	4,850	89	NWFWMD	
Totals		3.36	23,073	146		

Table 25.--Gilchrist County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; SRWMD, Suwannee River Water Management District]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Trenton, town of	F	0.40	1,468	272	SRWMD	
Totals		40	1,468	272		

Table 26.--Gulf County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; NWFWMD, Northwest Florida Water Management District]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Port St. Joe, city of	F	0.94	4,718	199	NWFWMD	Includes Cape San Blas.
Wewahithcka, city of	F	.08	1,671	48	NWFWMD	
Totals		1.02	6,389	160		

Table 27.--Glades County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; I, Intermediate aquifer; SFWMD, South Florida Water Management District]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Moore Haven, city of	I	0.26	2,254	115	SFWMD	
Totals		26	2,254	115		

Table 28.--Hamilton County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; SRWMD, Suwannee River Water Management District]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Jasper, city of	F	0.52	3,444	151	SRWMD	
Jennings, town of	F	.09	775	116	SRWMD	
White Springs, city of	F	.22	1,148	192	SRWMD	
Totals		.83	5,367	155		

Table 29.--Hardee County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; SWFWMD, Southwest Florida Water Management District]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Bowling Green, city of	F	0.34	2,341	146	SWFWMD	
Wauchula, city of	F	.83	5,000	165	SWFWMD	
Zolfo Springs, city of	F	.18	1,600	113	SWFWMD	
Totals		1.35	8,941	151		

Table 30.--Hendry County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; U, unnamed surficial aquifers; SFWMD, South Florida Water Management District; I, Intermediate aquifer; GDU, General Development Utilities]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Clewiston, city of	U	2.68	13,000	206	SFWMD	
GDU - Port Labelle	I	0.18	1,948	91	SFWMD	
Labelle, city of	U	.30	3,040	99	SFWMD	
Totals		3.16	17,988	176		

Table 31.--Hernando County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; SWFWMD, Southwest Florida Water Management District]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Brooksville, city of	F	1.50	9,608	156	SWFWMD	
Hernando County Utilities	F	3.43	24,412	141	SWFWMD	
Spring Hill Utilities	F	5.54	43,378	128	SWFWMD	
Totals		10.48	77,398	135		

Table 32.--Highlands County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; SWFWMD, Southwest Florida Water Management District; I/D, Improvement District; SFWMD, South Florida Water Management District]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Avon Park, city of	F	2.03	12,000	169	SWFWMD	
Pugh Utilities	F	.12	1,200	96	SWFWMD	
Lake Bonnet Village	F	.06	450	127	SWFWMD	
Lake Placid, town of	F	1.06	2,850	373	SWFWMD	
Placid Lakes Utilities	F	.19	2,195	88	SWFWMD	One well in the Intermediate aquifer.
Placid Utility Company	F	.17	294	575	SWFWMD	
Sebring Country Estates	F	.07	1,161	60	SWFWMD	
Sebring Ridge Utilities	F	.24	1,778	137	SWFWMD	
Sebring Utilities	F	3.42	25,000	137	SWFWMD	
Spring Lake I/D	F	.18	1,311	136	SFWMD	
Sun-N-Lake of Sebring	F	.29	2,300	125	SWFWMD	
Totals		7.82	50,539	155		

Table 33.--Hillsborough County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; SWFWMD, Southwest Florida Water Management District; N/A, data not available; MHP, mobile home park]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Country Meadows Estates	F	0.21	1,088	189	SWFWMD	
Crystal Lakes Utilities	F	N/A	N/A	N/A	SWFWMD	Included in Hillsborough County Utilities.
Eagles Utility Company	F	.01	54	167	SWFWMD	
Eastfield Slopes Condominium	F	.04	244	156	SWFWMD	
Featherock MHP	F	.11	931	115	SWFWMD	
Florida Cities Water Company	F	.75	4,000	187	SWFWMD	
Hillsborough County Utilities	F	28.06	180,819	155	SWFWMD	Includes N.W. Hillsborough service area.
Lake Highlands Utilities	F	.01	50	200	SWFWMD	
Nasrallah	F	.10	1,102	94	SWFWMD	
Park Invest/Paradise Village	F	.25	1,500	165	SWFWMD	
Pebble Creek Service Area	F	.11	1,247	87	SWFWMD	
Plant City, city of	F	4.17	27,807	150	SWFWMD	
Seaboard Utilities (Deltona)	F	.80	6,615	120	SWFWMD	Includes 0.43 Mgal/d purchased from the city of Tampa.
Southern Pines MHP	F	.01	70	143	SWFWMD	
Spanish Main MHP	F	.02	522	34	SWFWMD	
Sun City Utilities	F	.01	365	27	SWFWMD	
Tampa, city of	Hillsborough River	66.64	452,508	147	SWFWMD	Withdrew 7.12 Mgal/d from the F., and includes 0.57 Mgal/d sold to Nitran Industries.
Temple Terrace, city of	F	3.41	19,843	172	SWFWMD	
U.S.A. Utility Incorporated	F	.31	2,922	107	SWFWMD	
Valrico Hills Utilities	F	.13	893	150	SWFWMD	
Wilder/Southern Aire MHP	F	.02	335	54	SWFWMD	
Totals		105.15	702,915	150		

Table 34.--Holmes County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; NWFWM, Northwest Florida Water Management District]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Bonifay, city of	F	0.69	2,738	252	NWFWM	
Dogwood Lake Estates	F	.05	250	200	NWFWM	
Esto, town of	F	.03	350	86	NWFWM	
Namo, town of	F	.03	289	104	NWFWM	
Ponce De Leon, city of	F	.05	491	102	NWFWM	
Westville town of	F	.03	343	87	NWFWM	
Totals		.88	4,461	197		

Table 35.--Indian River County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; U, unnamed surficial aquifers; SJRWMD, St. Johns River Water Management District; GDU, General Development Utilities; IRCU, Indian River County Utilities; F, Floridan aquifer system; R/O, reverse osmosis; MHP, mobile home park]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Bent Pines Utilities	U	0.03	400	73	SJRWMD	
GDU - Vero Highlands/Shores	IRCU	.00	2,328	0	SJRWMD	Served by IRCU.
GDU - Sebastian Highlands	F	.24	2,156	113	SJRWMD	
Heritage Village Water System	F	.07	654	99	SJRWMD	R/O treated.
IRCU	F	1.61	15,500	104	SJRWMD	R/O treated.
Lakewood Village Water System	U	.11	1,095	97	SJRWMD	
Marsh Island Utilities	F	.01	88	136	SJRWMD	R/O treated.
North Beach Utilities	F	.27	984	274	SJRWMD	R/O treated.
Pelican Pointe Utilities	F	.03	370	86	SJRWMD	
Vero Beach, city of	U	9.39	23,500	400	SJRWMD	Withdrew 0.94 Mgal/d from the F.
Village Green Water System	F	.17	1,432	120	SJRWMD	R/O treated.
Whispering Palms MHP	F	.04	700	60	SJRWMD	R/O treated.
Totals		11.98	49,207	243		

Table 36.--Jackson County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; NWFWMD, Northwest Florida Water Management District]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Alford, town of	F	0.05	542	92	NWFWMD	
Ampbellton, town of	F	.06	339	177	NWFWMD	
Artondale, city of	F	.16	1,067	150	NWFWMD	
Araceville, city of	F	.47	2,863	164	NWFWMD	
Arand Ridge, town of	F	.08	672	119	NWFWMD	
Arreenwood, town of	F	.08	595	134	NWFWMD	
Aralone, town of	F	.20	870	230	NWFWMD	
Arrianna, city of	F	1.14	7,116	160	NWFWMD	
Arneeds, town of	F	.23	1,676	137	NWFWMD	
Totals		2.47	15,740	157		

Table 37.--Jefferson County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; NWFWMD, Northwest Florida Water Management District]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Aronticello, city of	F	0.62	2,898	214	NWFWMD	
Totals		.62	2,898	214		

Table 38.--Lafayette County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; SRWMD, Suwannee River Water Management District]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Arayo, city of	F	0.16	938	171	SRWMD	
Totals		.16	938	171		

Table 39.--Lake County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; W/A, Water Association; F, Floridan aquifer system; SJRWMD, St. Johns River Water Management District; S/D, subdivision; MHP, mobile home park;]

Utility/Owner	Water source	Public-supply water use		Water management district	Remarks
		Mgal/d	Population		
Astor Park W/A	F	0.24	3,000	80	SJRWMD
Brittany Estates	F	.07	213	329	SJRWMD
Clermont, city of	F	1.30	6,379	204	SJRWMD
Deanza, Mid Florida Lakes	F	.65	2,725	239	SJRWMD
Eustis, city of	F	2.97	17,250	172	SJRWMD
Fruitland Park, city of	F	.41	2,685	153	SJRWMD
Groveland, city of	F	.28	2,143	131	SJRWMD
Hawthorne S/D	F	.43	2,780	155	SJRWMD
Howey-In-The-Hills, town of	F	.32	664	482	SJRWMD
Lake County Utilities	F	.09	550	164	SJRWMD
Lakeview Terrace Center	F	.04	300	133	SJRWMD
Leesburg, city of	F	3.86	20,358	190	SJRWMD
Mascotte, town of	F	.18	1,770	102	SJRWMD
Minneola, city of	F	.18	1,232	146	SJRWMD
Molakai Park Water System	F	.04	550	73	SJRWMD
Montverde, town of	F	.12	464	259	SJRWMD
Mt. Dora, city of	F	2.48	9,480	262	SJRWMD
Orange Blossom Gardens MHP	F	1.04	4,130	252	SJRWMD
Silver Lake Estates Utilities	F	.46	948	485	SJRWMD
South Umatilla W/A	F	.06	375	160	SJRWMD
Southern States Utilities	F	.22	2,343	94	SJRWMD
Sunlake Estates	F	.32	593	540	SJRWMD
Tavares, city of	F	1.15	7,137	161	SJRWMD
Umatilla, city of	F	.48	2,405	200	SJRWMD
Utilities Incorporated of Florida	F	.09	308	292	SJRWMD
Water Oak Estates	F	.18	711	253	SJRWMD
Totals		17.66	91,493	193	

Table 40.--Lee County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; I, Intermediate aquifer; SFWMD, South Florida Water Management District; W/A, Water Association; R/O, reverse osmosis; MHP, mobile home park; U, unnamed surficial aquifers]

Utility/Owner	Water source	Public-supply water use		Water management district	Remarks
		Mgal/d	Population		
Bayshore Utilities	I	0.03	472	64	SFWMD
Bonita Springs W/A	I	1.56	12,062	129	SFWMD
Cape Coral, city of	I	6.87	45,772	150	SFWMD R/O treated.
Citrus Park MHP	U	.10	600	167	SFWMD Formerly Trost International.
Florida Cities Water Company	I	5.72	36,752	156	SFWMD Some withdrawn from the U.
Fort Myers, city of	U	6.41	42,044	152	SFWMD
Greater Pine Island	I	.82	9,166	89	SFWMD R/O treated.
Gulf Utility Company	U	1.12	7,937	141	SFWMD
Harbor Utility Company	I	.45	1,260	357	SFWMD R/O treated.
Island W/A	I	2.54	8,694	292	SFWMD R/O treated.
Lake Fairway	I	.10	834	120	SFWMD
Lee County Utility (no.1)	Caloosahatchee River	2.57	23,290	110	SFWMD Olga Plant
Lee County Utility (no.2)	I	4.11	32,600	126	SFWMD Corkscrew wellfield, R/O treated.
Lehigh Acres	I	1.02	11,009	93	SFWMD
Orange Harbor Park	U	.04	800	50	SFWMD
Spring Creek Village	U	.04	300	133	SFWMD
Sunny Grove	U	.01	300	33	SFWMD Inactive as of 1988.
Useppa Utilities	I	.02	310	65	SFWMD R/O treated.
Totals		33.53	234,202	143	

Table 41.--Leon County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; NWFWMD, Northwest Florida Water Management District; S/D, subdivision; MHP, mobile home park]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Lount's Water System	F	0.01	188	53	NWFWMD	
Deer Tree Hills S/D	F	.01	200	50	NWFWMD	
Greenwood MHP	F	.03	250	120	NWFWMD	
Homestead Ridge Water System	F	.02	153	131	NWFWMD	
Lake Bradford MHP	F	.03	175	171	NWFWMD	
Lowie Drilling & Utility Company	F	.12	1,123	107	NWFWMD	
Southern Bell MHP	F	.02	250	80	NWFWMD	
Tallahassee, city of	F	21.27	123,060	173	NWFWMD	
Walquin Electric & Water	F	1.52	12,653	120	NWFWMD	
Westview MHP	F	.02	118	169	NWFWMD	
Western Estates Water System	F	.01	70	143	NWFWMD	
Totals		23.06	138,240	167		

Table 42.--Levy County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; SRWMD, Suwannee River Water Management District; MHP, mobile home park; SWFWMD, Southwest Florida Water Management District]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Arsonson, town of	F	0.16	987	162	SRWMD	
Bedar Key, town of	F	.18	929	194	SRWMD	
Chiefland, town of	F	.43	2,041	211	SRWMD	
Clanning Springs, town of	F	.06	468	128	SRWMD	
Wide-A-Way MHP	F	.03	183	164	SRWMD	
Center Creek, town of	F	.02	133	150	SRWMD	
Williston, city of	F	.37	2,450	151	SWFWMD	
Wankeetown, town of	F	.08	650	123	SWFWMD	
Totals		1.33	7,841	170		

Table 43.--Liberty County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; NWFWMD, Northwest Florida Water Management District]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Bristol, city of	F	0.17	1,042	163	NWFWMD	
Osford/Telogia Water System	F	.03	272	110	NWFWMD	
Walquin Electric & Water	F	.01	52	192	NWFWMD	
Totals		.21	1,366	154		

Table 44.--Madison County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; SRWMD, Suwannee River Florida Water Management District]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Cherry Lake Utilities	F	0.13	568	229	SRWMD	
Greenville, city of	F	.22	1,278	172	SRWMD	
Madison, city of	F	1.01	4,544	222	SRWMD	
Totals		1.36	6,390	213		

Table 45.--Manatee County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; SWFWMD, Southwest Florida Water Management District]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Bradenton, city of	Braden River	5.03	38,127	132	SWFWMD	Purchased 0.35 Mgal/d from Manatee County.
Manatee County Utilities	Manatee River	19.61	140,364	140	SWFWMD	Includes Longboat Key and Palmetto.
Manatee County Utilities	Manatee River	¹ 12.19			SWFWMD	Sold to other utilities ² .
Totals		24.64	176,491	138		

¹Mgal/d not included in county totals.

²Sold 10.26 Mgal/d to Sarasota County, 0.35 Mgal/d to the city of Bradenton and 1.56 Mgal/d to Tropicana Utilities.

Table 46.--Marion County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; SJRWMD, St. Johns River Water Management District; SWFWMD, Southwest Florida Water Management District; GDU, General Development Utilities; MHP, mobile home park; N/A, data not available;]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Belleview, city of	F	0.63	4,536	139	SJRWMD	
County Wide Utility Company	F	.05	625	80	SWFWMD	
Decca Utility Company	F	.70	2,814	249	SWFWMD	
Dunnellon, city of	F	.27	1,747	155	SWFWMD	
GDU - Silver Springs Shore	F	1.36	9,405	145	SJRWMD	
Living Development Company	F	.01	49	204	SWFWMD	
Maco Development Company	F	.07	530	128	SJRWMD	
Marion Oaks Utility (SJRWMD)	F	.31	2,968	104	SJRWMD	
Marion Oaks Utility (SWFWMD)	F	.37	3,966	93	SWFWMD	
McIntosh, city of	F	.07	509	138	SJRWMD	
Ocala, city of	F	7.58	44,267	171	SJRWMD	
Ocala East Utilities	F	.10	580	166	SJRWMD	
Ocala Oaks Utilities	F	.23	1,790	126	SJRWMD	
Pine Run Utilities	F	.06	437	133	SWFWMD	
Rainbow Springs Utility	F	.04	325	129	SWFWMD	
Saddlebrook MHP	F	.08	200	380	SWFWMD	
Sunshine Utilities	F	.37	3,020	123	SJRWMD	
Southern States Utilities	F	.13	1,275	104	SJRWMD	
Tradewinds Utilities	F	.05	850	59	SJRWMD	
Top of the World Water System	F	.59	1,800	327	SWFWMD	
Utilities Incorporated of Florida	F	.12	840	145	SWFWMD	
Drexel Properties	F	.03	N/A	N/A	SWFWMD	Started pumping in June 1987.
Totals		13.21	82,533	160		

Table 47.--Martin County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; U, unnamed surficial aquifers; SFWMD, South Florida Water Management District; F, Floridan aquifer system; R/O, reverse osmosis]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Hobe Sound Water Company	U	1.59	7,193	221	SFWMD	
Hydratech Water System	U	.62	3,409	182	SFWMD	
Indiantown Water Company	U	.53	4,261	124	SFWMD	
Intracoastal Utilities	U	1.08	5,035	214	SFWMD	
Joe's Point Venture	F	.04	250	160	SFWMD	R/O treated.
Martin County Utilities	U	1.76	9,456	186	SFWMD	
Martin Downs	U	.37	3,299	112	SFWMD	
Miles Grant Water System	U	.16	1,291	124	SFWMD	
Miramar-Bella Vista	F	.02	208	96	SFWMD	R/O treated.
Pine Lake Village	U	.31	1,085	286	SFWMD	
Piper's Landing, Inc.	U	.09	552	163	SFWMD	
Radnor/Indian River Plantation	F	.08	238	336	SFWMD	R/O treated.
River Club of Martin	F	.02	165	121	SFWMD	R/O treated.
Sailfish Point	F	.08	323	248	SFWMD	R/O treated.
Southern States Utilities	U	.17	896	190	SFWMD	
Stuart, city of	U	3.19	14,294	223	SFWMD	
Totals		10.11	51,955	195		

Table 48.--Monroe County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; B, Biscayne aquifer; SFWMD, South Florida Water Management District]

Utility/Owner	Water source	Public-supply water use		Water management district	Remarks
		Mgal/d	Population		
Florida Keys Aqueduct Authority (includes the city of Key West)	B	13.14	73,500	179	SFWMD Withdrawal is in Dade County.
Totals		13.14	73,500	179	

Table 49.--Nassau County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; SJRWMD, St. Johns River Water Management District]

Utility/Owner	Water source	Public-supply water use		Water management district	Remarks
		Mgal/d	Population		
Callahan, town of	F	0.18	1,136	162	SJRWMD
Eastwood Oaks Apartments	F	.05	365	140	SJRWMD
Florida Public Utilities	F	2.57	11,928	216	SJRWMD Fernandina Beach, city of.
Hillard, town of	F	.18	2,175	85	SJRWMD
Marsh Cove Water System	F	.03	200	165	SJRWMD
Southern States Utilities	F	.52	4,931	105	SJRWMD Amelia Island.
Totals		3.54	20,735	171	

Table 50.--Okaloosa County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; NWFWMD, Northwest Florida Water Management District; W/S, water system]

Utility/Owner	Water source	Public-supply water use		Water management district	Remarks
		Mgal/d	Population		
Auburn Water Works	F	0.80	6,028	133	NWFWMD
Baker, city of	F	.12	1,337	90	NWFWMD
Crestview, city of	F	1.50	8,957	167	NWFWMD
Destin Water Users Incorporated	F	2.35	8,617	273	NWFWMD
Fort Walton Beach, city of	F	3.84	23,030	167	NWFWMD
Holt Water Users Incorporated	F	.06	795	75	NWFWMD
Laurel Hill, city of	F	.12	682	176	NWFWMD
Mary Esther, city of	F	.70	4,302	163	NWFWMD
Milligan Water Utilities	F	.08	948	84	NWFWMD
Miceville, city of	F	2.18	12,426	175	NWFWMD
Okaloosa County Water Utilities	F	5.71	41,703	137	NWFWMD
Seashore Village Utility	F	.50	4,096	122	NWFWMD
Seminole Community Center W/S	F	.11	830	133	NWFWMD
Talpa, city of	F	.46	3,741	123	NWFWMD
Totals		18.53	117,492	158	

Table 51.--Okeechobee County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; SFWMD, South Florida Water Management District]

Utility/Owner	Water source	Public-supply water use		Water management district	Remarks
		Mgal/d	Population		
Okeechobee, city of	Lake Okeechobee	2.00	15,240	131	SFWMD
Totals		2.00	15,240	131	

Table 52.--Orange County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; SJRWMD, St. Johns River Water Management District; SFWMD, South Florida Water Management District; MHP, mobile home park; S/D, subdivision]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Apopka, city of	F	4.45	20,100	221	SJRWMD	
Eatonville, town of	F	.65	2,700	241	SJRWMD	
Econ Ut./Wedgefield S/D	F	.12	854	136	SJRWMD	
Maitland, city of	F	3.19	9,945	321	SJRWMD	
Oakland, town of	F	.09	702	134	SJRWMD	
Ocoee, city of	F	2.27	11,552	197	SJRWMD	
Orange County Utilities	F	17.61	84,463	208	SJRWMD	Also in the SFWMD ¹
Orlando Utilities Commission	F	71.72	355,950	201	SJRWMD	Also in the SFWMD ²
Rock Spgs. MHP	F	.22	1,240	177	SJRWMD	
Shadow Hills MHP	F	.17	1,280	132	SJRWMD	
Southern States Utilities	F	.68	5,959	115	SJRWMD	
Starlight Ranch MHP	F	.19	1,560	121	SJRWMD	
Tangerine, town of	F	.13	408	309	SJRWMD	
Taft, city of	F	.22	2,090	105	SFWM	
Utilities Inc. of Florida	F	.11	955	118	SJRWMD	
Winter Garden, city of	F	1.38	11,250	123	SJRWMD	
Winter Park, city of	F	12.34	73,500	168	SJRWMD	
Zellwood Station Util.	F	.53	1,560	337	SJRWMD	
Zellwood Water Assoc.	F	.19	900	209	SJRWMD	
Totals		116.25	586,968	198		

¹Includes 5.70 Mgal/d and 15,288 population served in the SFWMD, and 11.91 Mgal/d and 69,175 population served in the SJRWMD.

²Includes 22.92 Mgal/d and 95,698 population served in the SFWMD, and 48.80 Mgal/d and 260,252 population served in the SJRWMD.

Table 53.--Osceola County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; SFWMD, South Florida Water Management District; S/D, subdivision]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Buenantura Lakes	F	0.83	5,036	165	SFWM	
Harbour Oaks Utilities	F	.09	727	124	SFWM	
Indian Ridge Utilities	F	.01	113	88	SFWM	
Kissimmee, city of	F	3.80	25,945	146	SFWM	
Kissimmee GSRC	F	.20	1,924	104	SFWM	Good Samaritan Retirement Center.
Majestic Oaks	F	.03	166	181	SFWM	
Morningside Utilities	F	.01	125	80	SFWM	
Oak Forrest S/D	F	.01	125	80	SFWM	
Poinciana Utilities	F	.79	4,412	179	SFWM	
St. Cloud, city of	F	1.53	13,276	115	SFWM	
Southern States Utilities	F	.21	2,547	82	SFWM	
Totals¹		7.51	54,396	138		

¹Does not include the following semipublic suppliers who supply water for commercial uses only:

Central Florida Utility (1.98 Mgal/d)
 Hyatt House Utility (0.38 Mgal/d)
 Osceola Service Corporation (0.18 Mgal/d)

Table 54.--Palm Beach County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; I/D, Improvement District; U, unnamed surficial aquifers; SFWMD, South Florida Water Management District; MHP, mobile home park; N/A, data not available; B, Biscayne aquifer]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Acme I/D	U	2.59	11,069	234	SFWMD	
Anchorage MHP		N/A	N/A		SFWMD	No data available for 1987.
Arrowhead MHP	U	.18	1,166	154	SFWMD	
Atlantis Utilities	U	.76	1,698	448	SFWMD	
Belle Glade, city of	Lake Okeechobee	4.44	18,907	235	SFWMD	
Boca Raton, city of	B	38.12	91,952	415	SFWMD	
Boynton Beach	U	10.31	61,436	168	SFWMD	
Bryant, town of (USSC)	Lake Okeechobee	.69	1,500	460	SFWMD	Operated by U.S. Sugar Corporation.
Century Utilities	U	.91	12,176	75	SFWMD	
Delray Beach, city of	U	11.60	46,273	251	SFWMD	
Florida Water Service	U	.48	3,899	123	SFWMD	
Golf, village of	U	.30	1,572	191	SFWMD	
Highland Beach, town of	B	1.32	3,306	399	SFWMD	
Jamaica Bay MHP	U	.06	498	120	SFWMD	
Juno Beach, town of		N/A	N/A		SFWMD	Served by Palm Beach County Utilities
Jupiter, town of	U	8.00	32,923	243	SFWMD	
Lake Worth Utilities	U	6.74	29,757	227	SFWMD	
Lantana, town of	U	1.97	9,311	212	SFWMD	
Magnolia Park Utilities	U	.56	1,478	379	SFWMD	
Manalapan, town of	U	.94	1,387	678	SFWMD	
Meadowbrook Utilities	U	.80	10,051	80	SFWMD	
Pahokee, city of	B	.83	7,355	113	SFWMD	
Palm Beach County Utilities	U	22.02	180,151	122	SFWMD	Includes 8.37 Mgal/d from the B.
Palm Springs, village of	U	3.54	23,185	153	SFWMD	
Riviera Beach, city of	U	8.08	33,500	241	SFWMD	
Riviera Beach System 2	U	.19	1,450	131	SFWMD	Formerly Consolidated Utilities.
Royal Palm Beach Utilities	U	1.83	8,732	210	SFWMD	
Seacoast Utilities	U	13.39	68,538	195	SFWMD	
South Bay, city of	Lake Okeechobee	.72	4,445	162	SFWMD	
Tequesta, village of	U	1.43	4,348	329	SFWMD	
Tropical Breeze Estate	U	.07	317	221	SFWMD	
West Palm Beach, city of	Lake Clear	25.61	87,466	293	SFWMD	
Totals		168.48	759,846	222		

Table 55.--Pasco County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; SWFWMD, Southwest Florida Water Management District; WCRWSA, West Coast Regional Water Supply Authority; MHP, mobile home park]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Aloha Utilities	F	1.67	17,666	95	SWFWMD	Purchased 0.43 Mgal/d from Pasco County Utilities.
Bartelt Sunshine Corporation	F	.14	2,838	48	SWFWMD	
Betmar Utilities	F	.15	2,800	54	SWFWMD	
Crystal Springs Water System	F	.05	747	64	SWFWMD	
Crestridge Gardens Utility	F	.12	1,533	78	SWFWMD	
Criterion/Turtle Lakes	F	.07	537	130	SWFWMD	
Dade City, city of	F	1.67	11,100	150	SWFWMD	
Dixie Grove Estates	F	.04	800	45	SWFWMD	
Floralino/Colonial Manor	F	.17	1,587	107	SWFWMD	
Forest Hills Utilities	F	.35	4,702	75	SWFWMD	Purchased 0.02 Mgal/d from Pasco County Utilities.
Forrest Lake Estates	F	.01	54	185	SWFWMD	
Hacienda Village	F	.06	960	63	SWFWMD	
Holiday Gardens Utility	F	.11	1,005	105	SWFWMD	
Holiday Utility	F	.09	1,020	87	SWFWMD	
Hudson Water Works	F	.57	4,800	118	SWFWMD	
Jasmine Lakes Service Association	F	.92	3,484	265	SWFWMD	Purchased 0.91 Mgal/d from Pasco County Utilities.
L.W.V. Utilities Corporation	F	.03	750	44	SWFWMD	
Lindrick Service Corporation	F	.71	5,260	134	SWFWMD	Purchased 0.54 Mgal/d from the city of New Port Richey.
Mad Hatter Utilities	F	.12	764	157	SWFWMD	
Magnolia Valley Service	F	.18	1,809	100	SWFWMD	Purchased 0.02 Mgal/d from the city of New Port Richey.
New Port Richey, city of	F	3.08	22,164	139	SWFWMD	Purchased 2.48 Mgal/d from WCRWSA ¹ .
Orangewood Lakes MHP	F	.11	3,020	36	SWFWMD	Purchased less than 0.01 Mgal/d from the city of New Port Richey.
Pasco Utilities	F	.12	1,346	89	SWFWMD	
Pasco County Utilities	F	9.13	90,510	101	SWFWMD	Purchased 6.19 Mgal/d from WCRWSA ¹ .
Port Richey, city of	F	.95	6,139	154	SWFWMD	Purchased 0.68 Mgal/d from the city of New Port Richey.
PPW/Paradise Point	F	.13	1,260	105	SWFWMD	
Quail Hollow Utilities	F	.04	906	44	SWFWMD	
S.H.(Shamrock Height) Utility	F	.04	492	81	SWFWMD	
San Antonio, city of	F	.20	750	263	SWFWMD	
Scarecrow Utilities	F	.01	108	83	SWFWMD	
Southern States Utilities	F	.11	690	155	SWFWMD	
Travelers Rest MHP	F	.05	725	65	SWFWMD	
T.V. Home Owners Association	F	.05	319	147	SWFWMD	
Utilities Incorporated of Florida	F	.15	2,016	76	SWFWMD	
Virginia City Incorporated	Pasco County	.04	725	55	SWFWMD	Purchased 0.04 Mgal/d from Pasco County.
Lake Padgett Estates	F	.37	3,283	111	SWFWMD	
Zephyrhills, city of	F	1.23	12,000	102	SWFWMD	
Totals		23.00	210,669	109		

¹WCRWSA - Starkey Well Field

Table 56.--Pinellas County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; SWFWMD, Southwest Florida Water Management District; PCWS, Pinellas County Water System]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Belleair, town of	F	0.91	4,008	226	SWFWMD	
Clearwater, city of	PCWS and F	15.53	102,000	152	SWFWMD	Purchased 9.52 Mgal/d from PCWS.
Dunedin, city of	PCWS and F	4.60	36,400	126	SWFWMD	Purchased 0.20 Mgal/d from PCWS.
Other Utilities ¹	PCWS and F	54.57	372,106	147	SWFWMD	Purchased 52.74 Mgal/d from PCWS.
St. Petersburg, city of	F	39.12	315,000	124	SWFWMD	Withdrawn in Hillsborough and Pasco County ² .
Tarpon Springs, city of	PCWS and F	3.61	16,834	214	SWFWMD	Purchased 3.26 Mgal/d from PCWS.
Totals		118.33	846,348	140		

PCWS supplies water to the following utilities or areas: Largo, Seminole Park, Oldsman, Safety Harbor, and unincorporated Pinellas County.

¹Includes utilities or areas: Largo, Seminole, Pinellas Park, Oldsmar, Safety Harbor and unincorporated Pinellas County.

²Wellfields are located in Hillsborough and Pasco counties, withdrawals are as follows: 17.44 Mgal/d from Hillsborough County, and 21.68 Mgal/d from Pasco County.

Table 57.--Polk County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; SWFWMD, Southwest Florida Water Management District; RV, recreational vehicle; MHP, mobile home park; N/A, data not available; SFWMD, South Florida Water Management District; SJRWMD, St. Johns River Water Management District; S/D, subdivision; BoCC, Board of County Commissioners; W/A, Water Association]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Alturas Water Works	F	0.03	182	165	SWFWMD	
Aurburndale, city of	F	2.16	18,316	118	SWFWMD	
Bartow, city of	F	3.64	18,973	192	SWFWMD	
Bartow-Airbase	F	.64	3,412	186	SWFWMD	
Carefree RV Country Village	F	.11	600	177	SWFWMD	
Century Reality Incorporated	F	.42	1,140	368	SWFWMD	
Continental Development	F	.12	544	211	SWFWMD	Ridge Utilities.
Crooked Lake Water	F	.14	1,642	83	SWFWMD	
Davenport, city of	F	.53	2,203	241	SWFWMD	
Dundee, town of	F	.58	2,441	237	SWFWMD	
Eagle Lake, city of	F	.32	2,500	126	SWFWMD	
Fort Meade, city of	F	1.08	5,884	183	SWFWMD	
Frostproof, city of	F	1.47	3,189	461	SWFWMD	
Garden Grove Water Company	F	3.08	15,452	199	SWFWMD	
Grenelefe Corporation	F	.77	5,000	153	SWFWMD	
Haines City, city of	F	2.36	14,801	159	SWFWMD	
Lake Alfred, city of	F	.62	3,500	176	SWFWMD	
Lake Hamilton, town of	F	.34	2,000	171	SWFWMD	
Lake Region MHP	F	.17	N/A	N/A	SWFWMD	
Lake Wales, city of	F	3.75	20,411	184	SWFWMD	
Lake Wales Utilities	F	.14	2,163	64	SFWMD	
Lakeland, city of	F	23.72	118,465	200	SWFWMD	Sold 0.57 Mgal/d to Polk County Utilities.
Lakeland, city of	F	.23	1,567	147	SWFWMD	
Lakeside Ranch	F	.03	362	83	SWFWMD	
Mountian Lake Corporation	F	.76	220	3,455	SWFWMD	
Mulberry, city of	F	.67	4,000	168	SWFWMD	
Oak Harbor S/D	F	.04	400	100	SJRWMD	
Orchid Springs Development	F	.13	790	158	SWFWMD	
Poinciana Village	F	.22	400	550	SFWMD	
Polk County Utilities (BoCC)	F	4.19	20,168	208	SWFWMD	Purchased 0.57 Mgal/d from the city of Lakeland.
Polk County Utilities (BoCC)	F	.08	400	200	SJRWMD	
River Utilities	F	.13	2,000	64	SFWMD	
Rollar Resort	F	.02	326	46	SWFWMD	
Saddlebag Lake W/A	F	.21	1,580	134	SWFWMD	
Southern States Utility	F	.24	2,485	96	SWFWMD	
Sun Acres Water Company	F	.02	N/A	N/A	SWFWMD	
Sunco/Hidden Cove	F	.03	244	105	SWFWMD	
Towerwood MHP	F	.07	220	314	SWFWMD	
Winter Haven, city of	F	6.97	34,900	200	SWFWMD	
Totals		60.17	312,880	192		

Table 58.--Putnam County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; SJRWMD, St. Johns River Water Management District; W/A, Water Association]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Crescent, city of	F	0.30	2,295	131	SJRWMD	
Interlachen, town of	F	.12	1,054	114	SJRWMD	
Lake Como W/A	F	.02	310	65	SJRWMD	
Melrose W/A	F	.07	705	99	SJRWMD	
Palatka, city of	F	2.57	13,872	185	SJRWMD	
Southern States Utilities	F	.20	2,595	77	SJRWMD	
Totals		3.28	20,831	157		

Table 59.--St. Johns County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; U, unnamed surficial aquifers; F, Floridan aquifer system; SJRWMD, St. Johns River Water Management District; S/D, subdivision; GDU, General Development Utilities]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Anastasia/Mainland Water System	U and F	2.10	16,350	128	SJRWMD	
Fountain Condominiums	F	.04	392	99	SJRWMD	
Fruit Cove Oaks S/D	F	.07	450	149	SJRWMD	
GDU - Julington Creek S/D	F	.02	110	209	SJRWMD	
Hastings, city of	U and F	.08	595	141	SJRWMD	
Intercoastal Utilities	F	.48	2,995	159	SJRWMD	
North Beach Water System	F	.16	876	180	SJRWMD	
Palm Valley Water System	F	.02	400	40	SJRWMD	
Ponce De Leon Utilities	F	.02	240	63	SJRWMD	Goodwin Beach.
Ponte Vedra Utilities	F	.94	5,600	168	SJRWMD	
South Ponte Vedra Beach Utility	F	.10	700	146	SJRWMD	
St. Augustine, city of	U and F	1.81	15,757	115	SJRWMD	
St. Augustine Shores Utility	U	.50	5,452	91	SJRWMD	
St. Johns North Utility	F	.06	315	178	SJRWMD	
St. Johns Service Company	F	1.11	7,500	147	SJRWMD	
Wesley Manor Water System	F	.07	400	175	SJRWMD	
Totals		7.56	58,132	130		

Table 60.--St. Lucie County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; SFWMD, South Florida Water Management District; R/O, reverse osmosis; U, unnamed surficial aquifers; GDU, General Development Utilities MHP, mobile home park]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Byrn Mawr Water System	F	0.09	508	177	SFWMD	R/O treated.
Fort Pierce Utilities	U	9.03	45,947	197	SFWMD	
GDU - Port St. Lucie	U	2.70	30,734	88	SFWMD	
Harbour Ridge Utilities	U	.05	350	143	SFWMD	
Monte Carlo Golf Club	U	.04	300	133	SFWMD	
Ocean Towers	F	.06	400	150	SFWMD	R/O treated.
Reserve Utility Corporation	U	.09	490	184	SFWMD	
Spanish Lakes MHP	U	.27	2,774	97	SFWMD	
Totals		12.33	81,503	151		

Table 61.--Santa Rosa County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; S, Sand-and-gravel aquifer; NWFWMD, Northwest Florida Water Management District; F, Floridan aquifer system]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Bagdad/Garcon Water Utility	S	0.32	3,060	105	NWFWMD	
Berrydale Water System	S	.16	1,400	114	NWFWMD	
Chumuckla Water System	S	.19	1,757	108	NWFWMD	
East Milton Water System	S	.45	4,366	103	NWFWMD	
Gulf Breeze, city of	S	.91	5,834	156	NWFWMD	
Holly/Navarre Water System	F	1.16	5,580	208	NWFWMD	
Jay, town of	S	.24	1,691	142	NWFWMD	
Midway, city of	F	1.50	12,276	122	NWFWMD	
Milton, city of	S	1.67	7,219	231	NWFWMD	
Moore Creek/Mt.Carmel Utility	S	.22	2,492	88	NWFWMD	
Pace Water System	S	1.81	15,027	120	NWFWMD	
Point Baker Water System	S	.52	3,906	133	NWFWMD	
Santa Rosa Shores/County	S	.76	6,916	110	NWFWMD	
Totals		9.15	64,608	142		

Table 62.--Sarasota County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; U, unnamed surficial aquifers; SWFWMD, Southwest Florida Water Management District; R/O, reverse osmosis; GDU, General Development Utilities; I, Intermediate aquifer; F, Floridan aquifer system; WF, well field; MHP, mobile home park]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Englewood Water District	U	1.26	18,580	68	SWFWMD	R/O treated.
Fla. Cities Water Company	Sarasota County	1.82	19,321	94	SWFWMD	Purchased 1.82 Mgal/d from Sarasota County.
GDU - Northport	Myakka River	1.33	12,004	111	SWFWMD	
Myakka Utilities	GDU	.20	2,280	86	SWFWMD	Purchased 0.20 Mgal/d from GDU.
Paver/Camelot Lake Utilities	I	.12	697	165	SWFWMD	
Plantation Utilities	I	.14	1,927	73	SWFWMD	R/O treated.
Sarasota, city of	F and I	10.05	51,250	196	SWFWMD	(Verna WF and city wells) R/O treat
Sarasota, county of	(¹)	3.70	16,500	224	SWFWMD	Purchased 10.30 Mgal/d from the city of Sarasota.
Siesta Key Utilities	Sarasota County	2.11	20,500	103	SWFWMD	Purchased 2.11 Mgal/d from Sarasota County.
Sorrento Utilities	I	.60	3,107	192	SWFWMD	R/O treated.
Southbay Utilities	I	.24	1,101	221	SWFWMD	R/O treated.
Sunrise Utilities	I	.06	722	89	SWFWMD	
Venice, city of	I	3.33	14,372	232	SWFWMD	R/O treated.
Venice Gardens Utility	I	1.86	13,979	133	SWFWMD	R/O treated.
Venice Ranch MHP ₂	I	.03	350	86	SWFWMD	
Other Utilities	Sarasota County	3.43	22,668	151	SWFWMD	Purchased 3.43 Mgal/d from Sarasota County.
Totals		30.26	199,358	152		

¹Purchased 10.30 Mgal/d from Manatee County Utilities, and 0.76 Mgal/d from the city of Sarasota and sold all but 3.70 Mgal/d to other utilities.

²Includes the following utilities who strictly purchase water from Sarasota County: Kensington Park, Dolomite, South Gate, Atlantic, and S.E. Development/Shopping Plaza.

Table 63.--Seminole County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; SJRWMD, St. Johns River Water Management District; W/A, Water Association; N/A, data not available; MHP, mobile home park]

Utility/Owner	Water source	Public-supply water use		Water management district	Remarks
		Mgal/d	Population Per capita		
Altamonte Springs, city of	F	7.73	33,156	233	SJRWMD
Casselberry, city of	F	4.84	35,100	138	SJRWMD
Central V Utilities Incorporated	F	1.06	5,440	195	SJRWMD
Indian Creek Utilities	F	.05	270	185	SJRWMD
Lake Harney W/A	F	.03	440	68	SJRWMD
Lake Mary, city of	N/A	N/A	N/A	N/A	SJRWMD
Longwood, city of	F	1.93	13,298	145	SJRWMD
Luthern Haven Water System	F	.04	435	92	SJRWMD
Mullet Lake W/A	F	.03	550	62	SJRWMD
Oviedo, city of	F	1.03	6,696	154	SJRWMD
Palm Ventures MHP	F	.14	687	205	SJRWMD
Sanford, city of	F	5.21	30,344	172	SJRWMD
Sanlando Utilities	F	8.40	32,849	256	SJRWMD
Seminole County Water System	F	5.42	34,074	159	SJRWMD
Seminole Utility Incorporated	F	1.58	8,520	185	SJRWMD
Southern States Utilities	F	1.25	8,643	145	SJRWMD
Utilities Incorporated of Fla.	F	.90	7,626	119	SJRWMD
Winter Springs, city of	F	1.20	13,422	89	SJRWMD
Totals		40.86	231,550	176	

Table 64.--Sumter County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; SWFWMD, Southwest Florida Water Management District; W/A, Water Association; MHP, mobile home park]

Utility/Owner	Water source	Public-supply water use		Water management district	Remarks
		Mgal/d	Population Per capita		
Bushnell, city of	F	0.19	1,556	124	SWFWMD
Center Hill, city of	F	.07	816	89	SWFWMD
Lake Panasoffkee W/A	F	.17	2,376	72	SWFWMD
Leisure Times MHP	F	.01	73	151	SWFWMD
Red Barn MHP	F	.03	625	42	SWFWMD
Webster, city of	F	.10	753	126	SWFWMD
Wildwood, city of	F	.56	3,505	159	SWFWMD
Totals		1.13	9,704	116	

Table 65.--Suwannee County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; SRWMD, Suwannee River Water Management District; W/A, Water Association]

Utility/Owner	Water source	Public-supply water use		Water management district	Remarks
		Mgal/d	Population Per capita		
Dowling Park Water System	F	0.10	330	303	SRWMD
Branford, town of	F	.11	705	156	SRWMD
Live Oak, city of	F	1.10	7,244	152	SRWMD
Welborn W/A	F	.02	410	49	SRWMD
Totals		1.33	8,689	153	

Table 66.--Taylor County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day;W/A, Water Association; F, Floridan aquifer system; SRWMD, Suwannee River Water Management District]

Utility/Owner	Water source	Public-supply water use		Water management district	Remarks
		Mgal/d	Population Per capita		
Keaton Beach W/A	F	0.01	200	50	SRWMD
Perry, city of	F	1.35	8,267	163	SRWMD
Stienhatchee W/A	F	.23	2,052	112	SRWMD
Totals		1.59	10,519	151	

Table 67.--Union County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; SRWMD, Suwannee River Water Management District]

Utility/Owner	Water source	Public-supply water use		Water management district	Remarks
		Mgal/d	Population Per capita		
Lake Butler, city of	F	0.61	4,000	153	SRWMD
Totals		.61	4,000	153	

Table 68.--Volusia County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; W/A, Water Association; F, Floridan aquifer system; SJRWMD, St. Johns River Water Management District; N/A, data not available;]

Utility/Owner	Water source	Public-supply water use		Water management district	Remarks
		Mgal/d	Population Per capita		
Cassadaga W/A	F	0.03	270	93	SJRWMD
Daytona Beach, city of	F	12.08	80,436	150	SJRWMD
De Land, city of	F	5.11	31,610	162	SJRWMD
Deltona Utilities	F	5.97	34,823	171	SJRWMD
Edgewater, city of	F	1.34	11,718	115	SJRWMD
Highland Country Estates	F	.06	515	107	SJRWMD
Holly Hill, city of	F	1.14	12,248	93	SJRWMD
Indian Harbor Estates	N/A	N/A	N/A	N/A	Served by Volusia County Water System
John Knox Village	F	.05	700	64	SJRWMD
Kingston Shores W/A	F	.02	250	80	SJRWMD
Lake Beresford W/A	F	.18	893	204	SJRWMD
Lake Helen, city of	F	.22	2,407	93	SJRWMD
New Smyrna Beach, city of	F	3.60	24,705	146	SJRWMD
Orange City Country Village	F	.13	1,400	94	SJRWMD
Orange City, city of	F	.52	3,883	134	SJRWMD
Ormond Beach, city of	F	4.55	39,125	116	SJRWMD
Port Orange, city of	F	4.13	37,727	109	SJRWMD
Spruce Creek Utility	F ¹⁾	.23	1,435	163	SJRWMD
Southern States Utility	(¹⁾	N/A	N/A	N/A	SJRWMD
Terra Marie Village Water System	F	.01	200	65	SJRWMD
Tomoka W/A	F	.04	300	130	SJRWMD
Sugar Mill Utility Company	F	.09	1,097	86	SJRWMD
Tymber Creek Utilities	F	.05	752	66	SJRWMD
Volusia County Water System	F ¹⁾	.73	4,500	162	SJRWMD
West Volusia Utility Company	(¹⁾	N/A	N/A	N/A	SJRWMD
Totals		40.27	290,994	138	

¹⁾Served by the city of Deland and Volusia County Water System.

Table 69.--Wakulla County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; NWFWMD, Northwest Florida Water Management District]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Panacea Area Water System	F	0.19	2,070	92	NWFWMD	
St. Marks, town of	F	.08	497	161	NWFWMD	
Sopchoppy, city of	F	.25	1,255	199	NWFWMD	
Talquin Electric & Water	F	.14	2,180	64	NWFWMD	
Wakulla Water System	F	.02	154	130	NWFWMD	
Totals		.68	6,156	110		

Table 70.--Walton County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; NWFWMD, Northwest Florida Water Management District; S/D, subdivision]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Argyle Water System	F	0.12	620	194	NWFWMD	
De Funiak Springs, city of	F	.78	5,938	131	NWFWMD	
Freeport, city of	F	.14	822	170	NWFWMD	
Inlet Beach Water System	F	.07	742	94	NWFWMD	
Grayton Beach Utilities	F	.02	352	57	NWFWMD	
Mossy Head Water System	F	.07	774	90	NWFWMD	
Paxton, town of	F	.18	1,353	133	NWFWMD	
Seagrove S/D	F	.17	1,518	112	NWFWMD	
Smith Water Company	F	.11	1,063	103	NWFWMD	
South Walton Utility Company	F	1.45	11,258	129	NWFWMD	
Westside Utilities	F	.03	207	145	NWFWMD	
Totals		3.14	24,647	127		

Table 71.--Washington County public-supply water use by utility, 1987

[Mgal/d, million gallons per day; Per capita, in gallons per day; F, Floridan aquifer system; NWFWMD, Northwest Florida Water Management District]

Utility/Owner	Water source	Public-supply water use			Water management district	Remarks
		Mgal/d	Population	Per capita		
Caryville, town of	F	0.06	610	88	NWFWMD	
Chipley, city of	F	.64	3,975	161	NWFWMD	
Deltona Utilities Inc.	F	.17	870	195	NWFWMD	
Vernon, city of	F	.10	883	113	NWFWMD	
Wausau, town of	F	.03	347	86	NWFWMD	
Totals		1.00	6,685	150		

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