

Appendixes

Appendix 1 and 2

Purpose, Data Sources, and Limitations

Appendix 1 provides water-use data for each Florida county for the period 1965-2000; appendix 2 provides water-use data for each water management district for the period 1975-2000. These tables provide a summary of all water-use data collected since 1965 (published or not published) for each category by the many different agencies involved in water-use compilations throughout the State. Since 1965, water-use data have been collected and compiled on various levels by the Florida Bureau of Geology, Florida Department of Environmental Protection, Northwest Florida Water Management District, St. Johns River Water Management District, South Florida Water Management District, Southwest Florida Water Management District, Suwannee River Water Management District, and U.S. Geological Survey. Prior to 1965, water-use data were only collected and published on a Statewide level. Some county data are available prior to 1965 and are published in the Florida Bureau of Geology regional or county-wide water-resource investigations. However, these data are often not consistent from one county or category to another. All totaled, data presented in appendix 1 and 2 were compiled from nearly 60 publications and countless unpublished data files.

The appendix in this report is the second effort to present all available water-use data by county and water management district. Historical data were summarized and published in 1995

for the period between 1965 and 1990 by the USGS (Marella, 1995). The tables presented in this appendix will provide the most recent data for the years between 1990 and 2000 and also will include any data modifications for the period between 1965 and 1990. Some additional data have been added to these tables that depict the amount of public-supply water treated and the amount of water used for recreational irrigation (including golf courses). These tables are available to download from the USGS web site: http://fl.water.usgs.gov/Water-Use/Water_Use_web/index.htm.

Water withdrawals and use data presented herein represent the average daily quantities used, as derived from annual data, and are expressed in million gallons per day (Mgal/d). Water-use values are reported to two places to the right of the decimal or to the nearest 10,000 gallons per day (gal/d). Water-use data herein may not be identical to the water-use data published by the water management districts or FDEP because of differences in data-collection procedures, categories, methodology, or changes made after publishing.

Data collected between 1975 and 2000 by the water management districts for individual counties are for the portion of the county within that district. If a county is within two water management districts and only one district compiled data, then the county totals are not complete, and therefore, they are only published or presented for that district. No partial county data are presented in these tables, only complete county data sets unless otherwise noted.

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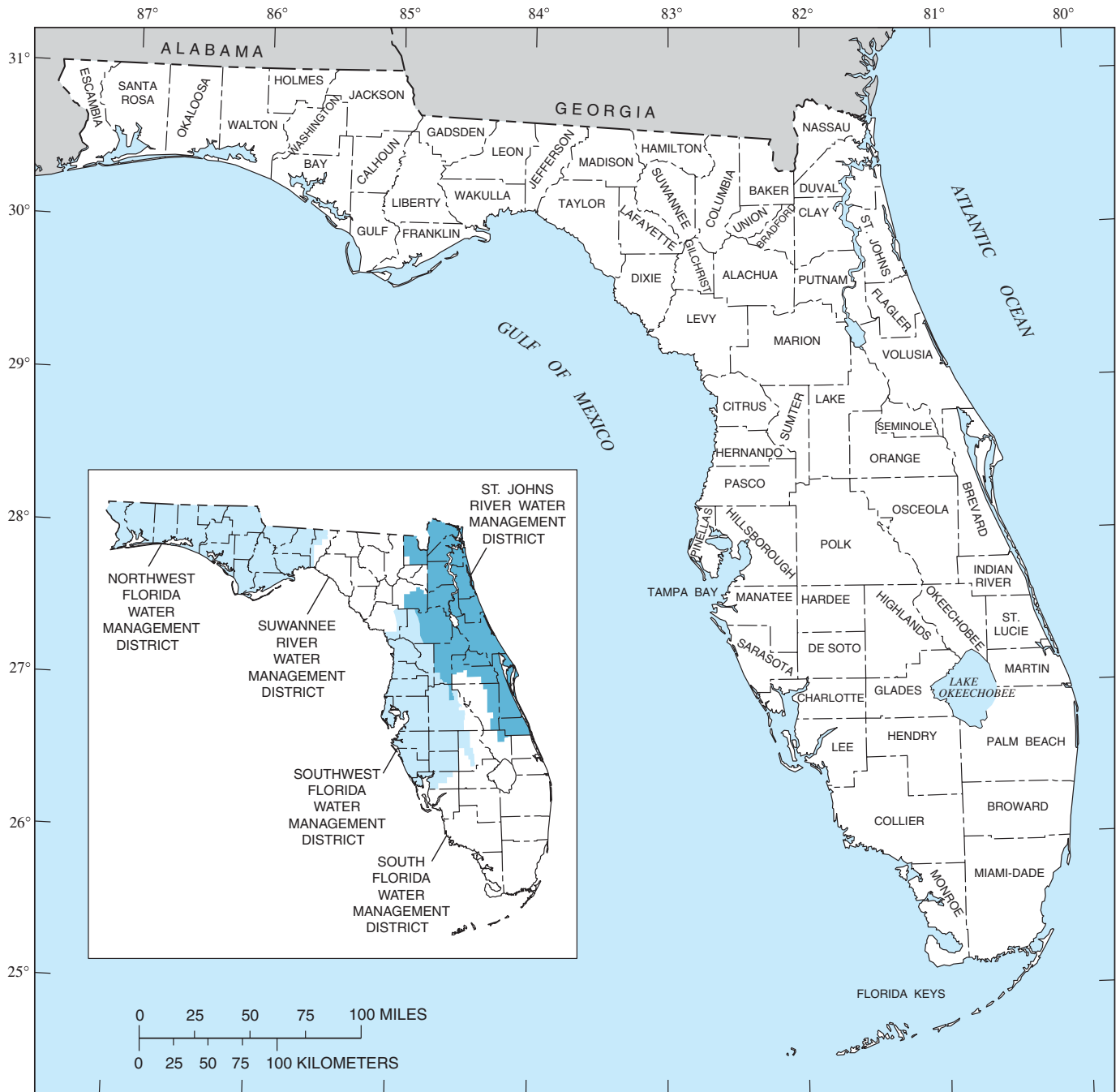
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Appendix 1. Freshwater withdrawals by category in Alachua County, 1965-2000

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	8.60	0.00	0.00	0.66	0.00	13.00	0.00	2.41	0.75	----	----	1.00	0.00	25.67	0.75	26.42
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	22.30	0.00	0.00	7.19	0.00	1.40	0.00	2.70	0.70	----	----	0.51	0.00	34.10	0.70	34.80
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	14.90	0.00	0.00	3.81	0.00	6.53	0.00	5.07	2.09	----	----	0.50	0.00	30.81	2.09	32.90
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	16.52	0.00	0.00	4.08	0.00	7.18	0.00	7.44	1.92	----	----	1.30	0.00	36.52	1.92	38.44
1978	18.14	0.00	0.00	4.10	0.00	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1980	18.18	0.00	0.00	7.45	0.00	1.53	0.00	15.97	4.32	----	----	0.93	0.00	44.06	4.32	48.38
1981	19.06	0.00	0.00	7.50	0.00	2.08	0.00	----	----	----	----	----	----	N/A	N/A	N/A
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	21.25	0.00	0.00	7.78	0.00	3.61	0.00	13.96	0.04	1.56	0.00	3.26	0.00	51.42	0.04	51.46
1986	21.71	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	21.88	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	22.20	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	23.63	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	22.95	0.00	0.00	6.38	0.00	2.29	0.00	16.06	0.25	2.03	0.11	2.41	0.00	52.12	0.36	52.48
1991	21.54	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	22.32	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	23.41	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	23.55	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	24.09	0.00	0.00	6.75	0.00	2.53	0.00	10.36	0.45	1.30	0.06	2.53	0.24	47.56	0.75	48.31
1996	24.68	0.00	0.00	4.79	0.00	2.59	0.00	----	----	----	----	2.59	0.00	N/A	N/A	N/A
1997	24.79	0.00	0.00	4.93	0.00	2.24	0.00	----	----	----	----	2.42	0.00	N/A	N/A	N/A
1998	27.47	0.00	0.00	6.20	0.00	2.21	0.00	----	----	----	----	2.50	0.00	N/A	N/A	N/A
1999	27.77	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	28.26	0.00	0.00	4.12	0.00	2.50	0.00	17.91	0.27	4.16	0.30	2.63	0.00	59.58	0.57	60.15

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Baker County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	0.20	0.00	0.00	0.25	0.00	0.15	0.00	0.11	0.01	----	----	0.00	0.00	0.71	0.01	0.72
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	0.50	0.00	0.00	0.79	0.00	0.00	0.00	0.00	0.00	----	----	0.00	0.00	1.29	0.00	1.29
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	0.54	0.00	0.00	0.82	0.00	0.32	0.00	0.88	0.72	----	----	0.00	0.00	2.56	0.72	3.28
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	0.56	0.00	0.00	0.86	0.00	0.32	0.00	0.96	1.16	----	----	0.00	0.00	2.70	1.16	3.86
1978	0.55	0.00	0.00	1.01	0.00	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	0.61	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1980	0.60	0.00	0.00	1.55	0.00	0.30	0.00	1.32	1.51	----	----	0.00	0.00	3.77	1.51	5.28
1981	0.54	0.00	0.00	----	----	0.50	0.00	----	----	----	----	----	----	N/A	N/A	N/A
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	0.60	0.00	0.00	1.86	0.00	0.66	0.00	2.95	2.19	0.00	0.00	0.00	0.00	6.07	2.19	8.26
1986	0.63	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	0.63	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	0.65	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	0.73	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	0.81	0.00	0.00	2.84	0.00	0.92	0.00	3.30	2.20	0.00	0.00	0.00	0.00	7.87	2.20	10.07
1991	0.76	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	0.74	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	0.76	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	0.71	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	0.68	0.00	0.00	2.50	0.00	0.54	0.00	0.93	0.63	0.09	0.00	0.00	0.00	4.74	0.63	5.37
1996	0.75	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1997	0.76	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	0.77	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	0.82	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	0.88	0.00	0.00	1.90	0.00	0.43	0.00	2.80	1.64	0.14	0.09	0.00	0.00	6.15	1.73	7.88

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - Published water-use data from the St. Johns River Water Management District, Palatka.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Bay County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	5.10	0.00	0.00	1.80	0.00	2.40	31.70	0.10	0.02	----	----	0.29	0.00	9.69	31.72	41.41
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	0.70	37.40	0.00	4.38	0.00	2.00	0.50	0.30	0.00	----	----	0.12	0.00	7.50	37.90	45.40
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	1.95	32.59	0.00	0.89	0.00	1.35	0.00	0.07	0.16	----	----	0.68	0.00	4.94	32.75	37.69
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	2.91	36.05	0.00	1.76	0.00	1.32	0.00	0.40	0.01	----	----	0.70	0.00	7.09	36.06	43.15
1978	2.78	36.85	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1980	3.16	36.34	0.00	1.57	0.00	1.48	0.00	0.38	0.28	----	----	0.70	0.00	7.29	36.62	43.91
1981	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	3.85	36.40	0.00	5.56	0.00	0.61	0.92	0.01	0.07	1.27	0.82	0.74	0.00	12.04	38.21	50.25
1986	6.17	41.78	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	6.47	39.40	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	6.43	40.10	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	6.14	38.81	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	7.07	40.11	0.00	5.47	0.00	0.65	1.46	0.26	0.00	1.43	0.59	1.14	0.00	16.02	42.16	58.18
1991	5.88	40.02	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	6.26	40.97	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	6.43	36.82	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	5.61	39.02	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	5.09	44.23	0.00	6.48	0.00	0.51	0.00	0.29	0.00	1.09	0.37	0.70	0.00	14.16	44.60	58.76
1996	4.78	41.62	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1997	5.16	44.92	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	5.60	36.99	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	5.60	45.39	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	6.28	44.89	0.00	2.01	0.00	0.30	0.00	1.28	0.00	1.46	0.79	0.89	0.00	12.22	45.68	57.90

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Bradford County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	0.30	0.00	0.00	0.30	0.00	0.00	0.00	0.14	0.07	----	----	0.07	0.00	0.81	0.07	0.88
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	0.70	0.00	0.00	1.06	0.00	1.40	0.00	0.07	0.07	----	----	0.02	0.00	3.25	0.07	3.32
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	0.83	0.00	0.00	0.96	0.00	3.96	0.00	0.09	0.09	----	----	0.00	0.00	5.84	0.09	5.93
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	1.08	0.00	0.00	1.28	0.00	3.37	0.00	0.91	0.10	----	----	0.10	0.00	6.74	0.10	6.84
1978	0.92	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1980	1.05	0.00	0.00	2.08	0.00	4.77	0.00	0.84	0.05	----	----	0.00	0.00	8.74	0.05	8.79
1981	1.17	0.00	0.00	----	----	4.47	0.00	----	----	----	----	----	----	N/A	N/A	N/A
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	1.34	0.00	0.00	2.60	0.00	4.34	0.00	0.89	0.00	0.08	0.00	0.00	0.00	9.25	0.00	9.25
1986	1.35	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	1.49	0.00	0.00	2.67	0.00	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	1.65	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	1.49	0.00	0.00	2.75	0.00	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	1.61	0.00	0.00	3.33	0.00	2.99	0.00	0.82	0.06	0.21	0.00	0.00	0.00	8.96	0.06	9.02
1991	1.58	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	1.47	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	1.52	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	1.40	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	1.33	0.00	0.00	2.38	0.00	2.98	0.00	0.69	0.05	0.08	0.00	0.00	0.00	7.46	0.05	7.51
1996	1.36	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1997	1.25	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	1.36	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	1.37	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	1.38	0.00	0.00	1.89	0.00	1.25	0.00	1.00	0.02	0.27	0.04	0.00	0.00	5.79	0.06	5.85

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Brevard County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	6.97	3.60	13.93	4.00	0.00	1.00	0.00	56.84	5.18	----	----	0.20	0.00	69.01	8.78	77.79
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	3.48	7.72	15.30	3.38	0.00	0.40	0.00	47.90	0.00	----	----	0.03	0.00	55.19	7.72	62.91
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	3.82	8.90	14.40	2.70	0.00	0.45	0.00	40.17	21.72	----	----	0.50	0.00	47.64	30.62	78.26
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	4.60	10.80	14.72	2.84	0.00	0.45	0.00	39.06	2.88	----	----	0.29	0.00	47.24	13.68	60.92
1978	5.38	9.46	14.97	4.42	0.00	0.24	0.00	123.13	5.75	----	----	0.10	0.00	133.27	15.21	148.48
1979	6.54	11.88	17.51	3.30	0.00	0.23	0.00	249.22	32.17	----	----	0.26	0.00	259.55	44.05	303.60
1980	7.25	12.97	17.73	4.10	0.00	0.24	0.00	158.99	7.37	----	----	0.25	0.00	170.83	20.34	191.17
1981	7.13	12.41	17.03	1.56	0.00	0.15	0.00	356.14	54.99	----	----	28.00	0.00	392.98	67.40	460.38
1982	6.87	11.33	16.44	4.55	0.00	0.15	0.00	76.69	15.27	----	----	0.24	0.00	88.50	26.60	115.10
1983	7.22	11.91	16.70	4.45	0.00	0.16	0.00	76.99	15.64	----	----	0.31	0.00	89.13	27.55	116.68
1984	8.46	13.21	20.34	5.09	0.00	0.14	0.00	85.43	16.45	----	----	0.28	0.00	99.40	29.66	129.06
1985	9.21	14.09	22.10	5.62	0.00	0.24	0.00	98.99	23.54	1.33	2.16	0.31	0.00	115.70	39.79	155.49
1986	9.59	15.47	22.47	5.92	0.00	0.57	0.00	104.86	8.40	2.27	2.47	0.28	0.00	123.49	26.34	149.83
1987	10.08	15.61	23.49	6.13	0.00	0.21	0.00	91.13	9.82	1.85	1.78	0.27	0.00	109.67	27.21	136.88
1988	10.79	16.15	25.02	6.89	0.00	0.19	0.00	98.23	12.37	2.26	2.28	0.23	0.00	118.59	30.80	149.39
1989	11.29	15.49	24.86	6.98	0.00	0.19	0.00	89.13	8.22	2.50	2.64	0.25	0.00	110.34	26.35	136.69
1990	11.55	16.24	23.52	5.08	0.00	0.19	0.00	99.41	9.07	1.37	1.33	0.25	0.00	117.85	26.64	144.49
1991	10.70	15.24	22.46	4.93	0.00	0.13	0.00	109.95	9.10	2.81	2.49	0.28	0.00	128.80	26.83	155.63
1992	11.26	14.83	24.85	0.87	0.00	0.13	0.00	83.69	8.49	1.48	1.34	0.25	0.00	97.68	24.66	122.34
1993	11.40	14.92	25.06	0.97	0.00	0.15	0.00	139.42	11.18	1.74	2.88	0.28	0.00	153.96	28.98	182.94
1994	10.69	15.71	23.54	0.83	0.00	0.87	0.00	136.51	11.41	1.77	2.94	0.32	0.00	150.99	30.06	181.05
1995	14.97	12.15	23.97	5.23	0.00	1.80	0.00	88.43	8.56	2.29	1.79	0.31	0.00	113.03	22.50	135.53
1996	17.16	11.07	25.34	5.36	0.00	1.75	0.00	96.61	9.33	3.29	2.79	0.33	0.00	124.50	23.19	147.69
1997	14.12	11.85	24.61	5.23	0.00	1.67	0.00	50.67	5.01	2.38	2.22	0.34	0.00	74.41	19.08	93.49
1998	15.06	12.15	25.73	5.21	0.00	3.46	0.00	165.68	13.29	3.17	2.73	0.49	0.00	193.07	28.17	221.24
1999	14.91	12.11	24.50	5.10	0.00	2.66	0.00	50.25	5.28	2.22	1.92	0.41	0.00	75.55	19.31	94.86
2000	13.66	14.08	25.61	1.90	0.00	1.04	0.01	118.79	18.03	7.75	7.08	0.39	0.00	143.53	39.20	182.73

Public supply transfers represent water withdrawn in Orange County and imported for use in Brevard County.

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - Published water-use data from the St. Johns River Water Management District, Palatka.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004) and St. Johns River Water Management District (2004).

Appendix 1. Freshwater withdrawals by category in Broward County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Treated	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	74.90	0.00	0.00	10.20	0.00	3.00	0.00	21.37	63.57	----	----	0.09	0.00	109.56	63.57	173.13
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	102.00	1.00	0.00	8.41	0.00	2.00	1.00	30.00	39.80	----	----	0.14	0.00	142.55	41.80	184.35
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	139.78	0.00	0.00	8.16	0.00	2.50	1.00	17.91	59.96	----	----	0.15	0.00	168.50	60.96	229.46
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	155.85	0.00	0.00	3.12	0.00	2.98	1.00	19.54	60.58	----	----	0.11	0.00	181.60	61.58	243.18
1978	154.90	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1980	184.39	0.00	0.00	5.89	0.00	1.19	0.00	32.90	11.11	----	----	0.10	0.00	224.47	11.11	235.58
1981	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	187.95	0.00	0.00	2.96	0.00	1.36	0.00	25.33	0.79	12.51	4.31	0.07	0.00	230.18	5.10	235.28
1986	198.60	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	207.64	0.00	0.00	4.76	0.00	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	218.30	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	220.92	0.00	0.00	3.40	0.00	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	192.53	0.00	0.00	9.60	0.00	1.63	0.00	2.18	13.74	38.79	8.01	0.05	0.00	244.78	21.75	266.53
1991	206.28	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	213.68	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	217.62	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	218.81	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	222.30	0.00	0.00	2.16	0.00	0.34	0.00	3.33	6.70	39.03	13.05	0.42	0.00	267.58	19.75	287.33
1996	235.35	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1997	228.94	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	237.22	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	246.38	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	258.06	0.00	0.09	2.11	0.00	0.54	0.00	0.89	3.21	11.86	25.14	0.00	0.00	273.46	28.35	301.81

Public supply treated includes water that does not meet public drinking water standards and is either treated through a desalination process or is diluted with fresher water to meet standards.

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data source; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Calhoun County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	0.20	0.00	0.00	0.80	0.00	1.10	0.50	0.41	0.01	----	----	0.00	0.00	2.51	0.51	3.02
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	0.20	0.00	0.00	0.53	0.00	0.00	0.00	0.13	0.03	----	----	0.00	0.00	0.86	0.03	0.89
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	0.28	0.00	0.00	0.50	0.01	0.36	0.00	1.21	0.15	----	----	0.00	0.00	2.35	0.16	2.51
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	0.32	0.00	0.00	0.54	0.01	0.36	0.00	1.25	1.29	----	----	0.00	0.00	2.47	1.30	3.77
1978	0.35	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1980	0.33	0.00	0.00	0.69	0.02	0.72	0.00	1.58	0.12	----	----	0.00	0.00	3.32	0.14	3.46
1981	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	0.39	0.00	0.00	0.92	0.00	0.00	0.00	0.34	0.03	0.00	0.00	0.00	0.00	1.65	0.03	1.68
1986	0.41	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	0.40	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	0.40	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	0.43	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	0.53	0.00	0.00	1.24	0.00	0.00	0.00	0.11	0.50	0.00	0.00	0.00	0.00	1.88	0.50	2.38
1991	0.50	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	0.52	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	0.55	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	0.57	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	0.68	0.00	0.00	1.27	0.00	0.00	0.00	1.43	0.81	0.00	0.00	0.00	0.00	3.38	0.81	4.19
1996	0.70	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1997	0.82	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	0.76	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	0.71	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	0.75	0.00	0.00	0.93	0.00	0.00	0.00	2.66	1.79	0.00	0.00	0.00	0.00	4.34	1.79	6.13

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Charlotte County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	0.40	0.90	0.40	0.19	0.00	0.00	0.00	5.98	0.32	----	----	0.00	0.00	6.57	1.22	7.79
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	0.50	0.96	1.34	1.39	0.00	0.00	0.00	28.20	0.70	----	----	0.00	0.00	30.09	1.66	31.75
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	0.18	1.80	2.09	1.17	0.00	0.10	0.00	34.65	0.00	----	----	0.00	0.00	36.10	1.80	37.90
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	0.08	1.83	2.06	1.23	0.00	0.10	0.00	21.28	0.00	----	----	0.00	0.00	22.69	1.83	24.52
1978	0.00	2.03	2.07	0.18	0.00	0.00	0.00	26.90	0.80	----	----	0.00	0.00	27.08	2.83	29.91
1979	0.00	2.06	1.97	0.69	0.00	0.00	0.00	35.53	1.09	----	----	0.00	0.00	36.22	3.15	39.37
1980	0.00	2.41	2.49	0.89	0.00	0.00	0.00	22.84	2.49	----	----	0.00	0.00	23.73	4.90	28.63
1981	0.00	2.42	3.41	0.99	0.00	0.00	0.00	41.67	4.59	----	----	0.00	0.00	42.66	7.01	49.67
1982	2.32	2.70	3.35	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1983	2.35	2.48	3.43	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1984	2.79	2.74	3.60	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1985	2.64	2.72	5.28	2.98	0.00	0.00	0.00	41.99	3.47	1.13	0.30	0.00	0.00	48.74	6.49	55.23
1986	2.72	2.75	4.03	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	3.03	3.17	4.26	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	3.10	3.02	5.91	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	2.02	3.71	9.84	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	2.62	3.44	9.73	1.62	0.00	4.25	0.00	35.07	1.79	0.39	1.49	0.00	0.00	43.95	6.72	50.67
1991	3.07	3.07	8.08	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	2.84	3.28	10.28	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	2.93	3.19	8.53	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	2.66	3.41	6.02	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	2.44	5.12	6.49	5.85	0.00	0.33	6.19	27.46	0.96	0.09	1.44	0.00	0.00	36.17	13.71	49.88
1996	2.73	3.37	6.92	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1997	2.82	3.38	6.47	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	3.42	3.28	7.07	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	3.34	3.57	7.19	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	3.29	3.99	7.72	3.55	0.00	0.15	2.34	28.17	19.02	0.79	2.69	0.00	0.00	35.95	28.04	63.99

Charlotte County is located within the South Florida and the Southwest Florida Water Management Districts. The values shown represent the County totals as reported by the Districts.

Public supply transfers represent water withdrawn in DeSoto County and imported for use in Charlotte County.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965-1984 and 1986-1989.

Data source; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee, and published data from the Southwest Florida Water Management District, Brooksville.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004) and Southwest Florida Water Management District (2002).

Appendix 1. Freshwater withdrawals by category in Citrus County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	0.70	0.00	0.00	0.48	0.00	0.20	0.00	0.51	1.21	----	----	0.00	0.00	1.89	1.21	3.10
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	0.20	0.00	0.00	2.00	0.00	0.20	0.00	4.90	0.04	----	----	0.02	0.00	7.32	0.04	7.36
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	0.59	0.00	0.00	3.24	0.00	1.32	0.00	0.38	0.24	----	----	0.63	0.00	6.16	0.24	6.40
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	0.66	0.00	0.00	3.60	0.00	1.32	0.00	1.23	0.37	----	----	0.63	0.00	7.44	0.37	7.81
1978	0.50	0.00	0.00	4.01	0.00	2.50	0.00	2.44	0.60	----	----	0.65	0.00	10.10	0.60	10.70
1979	0.90	0.00	0.00	3.95	0.00	2.51	0.00	4.90	0.76	----	----	0.57	0.00	12.83	0.76	13.59
1980	0.90	0.00	0.00	5.20	0.00	0.34	0.21	4.58	0.23	----	----	0.57	0.00	11.59	0.44	12.03
1981	1.00	0.00	0.00	5.60	0.00	0.20	0.00	7.31	0.38	----	----	0.71	0.00	14.82	0.38	15.20
1982	4.98	0.00	0.00	1.71	0.00	0.05	0.00	7.04	0.42	----	----	0.71	0.00	14.49	0.42	14.91
1983	5.54	0.00	0.00	3.70	0.00	0.09	0.00	6.79	0.41	----	----	0.75	0.00	16.87	0.41	17.28
1984	6.03	0.00	0.00	5.46	0.00	0.41	0.00	8.67	0.53	----	----	1.14	0.00	21.71	0.53	22.24
1985	6.55	0.00	0.00	7.83	0.00	0.85	0.00	7.50	0.70	1.10	0.00	1.37	0.00	25.20	0.70	25.90
1986	7.30	0.00	0.00	5.08	0.00	2.26	0.00	9.70	0.59	----	----	1.51	0.00	25.85	0.59	26.44
1987	7.79	0.00	0.00	5.48	0.00	2.57	0.00	6.71	0.46	----	----	1.55	0.00	24.10	0.46	24.56
1988	8.78	0.00	0.00	8.18	0.00	3.08	0.00	2.41	2.22	----	----	1.72	0.00	24.17	2.22	26.39
1989	8.74	0.00	0.00	8.59	0.00	2.36	0.00	4.17	0.26	----	----	1.63	0.00	25.49	0.26	25.75
1990	8.84	0.00	0.00	9.20	0.00	2.13	0.00	1.51	0.14	1.83	0.13	1.50	0.00	25.01	0.27	25.28
1991	9.92	0.00	0.00	6.78	0.00	0.38	4.59	2.39	0.88	2.35	1.97	0.71	0.00	22.53	7.44	29.97
1992	11.73	0.00	0.00	6.94	0.00	3.00	1.46	2.52	0.72	4.04	1.92	0.63	0.00	28.86	4.10	32.96
1993	10.53	0.00	0.00	9.38	0.00	3.75	0.66	1.76	0.14	4.85	1.19	0.72	0.00	30.99	1.99	32.98
1994	9.40	0.00	0.00	7.34	0.00	4.85	0.49	1.38	0.10	4.47	1.17	0.71	0.00	28.15	1.76	29.91
1995	10.08	0.00	0.00	6.74	0.00	5.31	0.43	1.24	0.05	3.39	1.25	1.52	0.00	28.28	1.73	30.01
1996	11.03	0.00	0.00	8.66	0.00	5.07	2.73	1.36	0.10	3.41	2.27	0.75	0.00	30.28	5.10	35.38
1997	11.36	0.00	0.00	7.02	0.00	6.04	3.38	1.33	0.08	4.53	1.62	0.64	0.00	30.92	5.08	36.00
1998	14.99	0.00	0.00	9.01	0.00	5.05	1.08	1.60	0.11	3.67	1.75	0.78	0.00	35.10	2.94	38.04
1999	13.25	0.00	0.00	6.49	0.00	0.89	0.21	1.51	0.09	4.82	0.63	0.72	0.00	27.68	0.93	28.61
2000	13.97	0.00	0.00	7.20	0.00	0.80	0.29	2.76	0.59	3.77	0.41	1.55	0.00	30.05	1.29	31.34

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965-1984 and 1986-1989.

Data source; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1990-1994, and 1996-1999 - Southwest Florida Water Management District, published water-use data, Brooksville.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004) and Southwest Florida Water Management District (2002).

Appendix 1. Freshwater withdrawals by category in Clay County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	1.00	0.00	0.00	0.55	0.00	1.50	0.00	5.32	0.00	----	----	0.00	0.00	8.37	0.00	8.37
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	1.60	0.00	0.00	2.33	0.00	1.50	0.00	4.10	0.00	----	----	0.00	0.00	9.53	0.00	9.53
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	5.01	0.00	0.00	1.81	0.00	6.62	4.30	0.48	0.04	----	----	0.00	0.00	13.92	4.34	18.26
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	4.99	0.00	0.00	1.90	0.00	4.69	4.30	1.86	1.37	----	----	0.00	0.00	13.44	5.67	19.11
1978	5.33	0.00	0.00	5.08	0.00	3.20	0.00	2.05	1.29	----	----	0.00	0.00	15.66	1.29	16.95
1979	5.24	0.00	0.00	2.49	0.00	5.14	0.00	3.24	1.27	----	----	0.00	0.00	16.11	1.27	17.38
1980	6.12	0.00	0.00	7.44	0.00	3.20	0.00	2.29	1.30	----	----	0.00	0.00	19.05	1.30	20.35
1981	7.40	0.00	0.00	4.43	0.00	5.57	0.00	2.88	1.27	----	----	0.00	0.00	20.28	1.27	21.55
1982	5.93	0.00	0.00	3.58	0.00	5.52	0.00	2.80	1.27	----	----	0.00	0.00	17.83	1.27	19.10
1983	6.39	0.00	0.00	2.34	0.00	5.58	0.00	2.12	1.27	----	----	0.00	0.00	16.43	1.27	17.70
1984	6.96	0.00	0.00	4.07	0.00	5.42	0.00	2.00	1.40	----	----	0.00	0.00	18.45	1.40	19.85
1985	8.40	0.00	0.00	2.70	0.00	7.31	4.43	2.42	0.63	0.43	0.25	0.00	0.00	21.26	5.31	26.57
1986	9.23	0.00	0.00	3.31	0.00	7.05	4.43	1.82	0.00	1.20	0.43	0.00	0.00	22.61	4.86	27.47
1987	9.92	0.00	0.00	3.64	0.00	6.98	0.00	1.78	0.00	1.09	0.38	0.00	0.00	23.41	0.38	23.79
1988	10.39	0.00	0.00	3.87	0.00	6.99	0.00	1.81	0.00	0.94	0.31	0.00	0.00	24.00	0.31	24.31
1989	10.23	0.00	0.00	4.05	0.00	7.03	0.00	1.74	0.00	0.85	0.26	0.00	0.00	23.90	0.26	24.16
1990	11.11	0.00	0.00	4.53	0.00	6.56	0.00	1.84	0.00	1.16	0.44	0.00	0.00	25.20	0.44	25.64
1991	10.61	0.00	0.00	4.99	0.00	7.28	0.00	1.56	0.00	1.00	0.38	0.00	0.00	25.44	0.38	25.82
1992	10.42	0.00	0.00	4.97	0.00	5.45	0.00	1.60	0.00	0.39	0.13	0.00	0.00	22.83	0.13	22.96
1993	9.43	0.00	0.00	4.50	0.00	6.22	0.00	0.54	0.00	0.70	0.36	0.00	0.00	21.39	0.36	21.75
1994	11.14	0.00	0.00	5.74	0.00	4.99	0.00	0.54	0.00	0.68	0.36	0.00	0.00	23.09	0.36	23.45
1995	12.04	0.00	0.00	3.59	0.00	4.46	0.00	0.47	0.00	0.72	0.24	0.00	0.00	21.28	0.24	21.52
1996	12.19	0.00	0.00	2.33	0.00	5.02	0.00	1.12	0.00	0.86	0.31	0.00	0.00	21.52	0.31	21.83
1997	11.45	0.00	0.00	2.44	0.00	4.36	0.00	1.01	0.00	0.88	0.31	0.00	0.00	20.14	0.31	20.45
1998	13.49	0.00	0.00	3.63	0.00	2.74	0.00	1.10	0.00	0.96	0.35	0.00	0.00	21.92	0.35	22.27
1999	14.54	0.00	0.00	3.99	0.00	2.68	0.00	1.10	0.00	0.86	0.45	0.00	0.00	23.17	0.45	23.62
2000	14.77	0.00	0.00	4.24	0.00	6.87	0.00	5.92	0.04	1.77	0.48	0.00	0.00	33.57	0.52	34.09

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - Published water-use data from the St. Johns River Water Management District, Palatka.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004) and St. Johns River Water Management District (2004).

Appendix 1. Freshwater withdrawals by category in Collier County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Treated	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	2.00	1.30	0.00	1.30	0.00	0.50	0.00	48.36	4.84	----	----	0.00	0.00	52.16	6.14	58.30
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	5.00	0.90	0.00	1.02	0.00	0.50	0.00	47.10	0.40	----	----	0.00	0.00	53.62	1.30	54.92
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	11.93	0.00	0.00	0.40	0.75	0.00	0.00	64.77	5.00	----	----	0.00	0.00	77.10	5.75	82.85
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	14.12	0.00	0.00	0.61	0.45	0.00	0.00	72.93	4.82	----	----	0.00	0.00	87.66	5.27	92.93
1978	15.60	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1980	19.30	0.00	0.00	2.28	0.00	2.33	0.00	83.61	3.61	----	----	0.00	0.00	107.52	3.61	111.13
1981	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	21.08	4.30	N/A	3.32	0.00	4.67	0.00	77.99	5.47	6.86	0.00	0.00	0.00	113.92	9.77	123.69
1986	23.90	4.50	N/A	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	24.69	4.61	N/A	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	27.54	4.96	N/A	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	28.32	4.96	N/A	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	31.44	5.27	N/A	8.89	0.00	0.58	3.72	143.91	5.59	10.48	3.91	0.00	0.00	195.30	18.49	213.79
1991	29.18	5.35	N/A	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	31.77	4.70	N/A	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	32.98	4.03	N/A	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	37.67	4.31	8.03	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	36.46	2.84	8.55	5.57	0.00	0.15	3.07	131.26	11.47	13.54	3.84	0.00	0.00	186.98	21.22	208.20
1996	38.19	3.50	10.59	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1997	39.17	4.42	9.35	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	44.27	5.09	10.21	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	44.11	4.71	11.69	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	47.17	5.23	22.46	2.67	0.00	0.19	5.62	137.18	5.81	15.28	10.89	0.00	0.00	202.49	27.55	230.04

Public supply treated includes water that does not meet public drinking water standards and is either treated through a desalination process or is diluted with fresher water to meet standards.

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee, Florida.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Columbia County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	1.20	0.00	0.00	0.60	0.00	0.00	0.00	0.40	0.13	----	----	0.00	0.00	2.20	0.13	2.33
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	1.70	0.00	0.00	1.04	0.00	0.00	0.00	0.20	0.00	----	----	0.00	0.00	2.94	0.00	2.94
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	1.70	0.00	0.00	1.33	0.00	0.12	0.00	1.29	0.28	----	----	0.00	0.00	4.44	0.28	4.72
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	1.84	0.00	----	1.73	0.00	0.31	0.00	1.52	0.17	----	----	0.00	0.00	5.40	0.17	5.57
1978	2.04	0.00	----	3.32	0.00	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1980	2.01	0.00	0.00	3.76	0.00	0.27	0.00	1.16	0.82	----	----	0.00	0.00	7.20	0.82	8.02
1981	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	1.99	0.00	0.00	4.86	0.00	0.09	0.00	2.60	0.05	0.27	0.00	0.00	0.00	9.81	0.05	9.86
1986	2.25	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	2.23	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	2.35	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	2.73	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	2.93	0.00	0.00	5.21	0.00	0.03	0.00	2.78	0.23	0.20	0.00	0.00	0.00	11.15	0.23	11.38
1991	2.60	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	2.88	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	2.99	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	2.64	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	2.87	0.00	0.00	2.66	0.00	0.23	0.00	8.37	0.59	0.15	0.00	0.00	0.00	14.28	0.59	14.87
1996	3.15	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1997	3.17	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	3.46	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	3.55	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	3.67	0.00	0.00	3.74	0.00	0.34	0.00	5.79	0.10	0.34	0.11	0.00	0.00	13.88	0.21	14.09

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in DeSoto County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	0.30	0.40	0.40	0.40	0.00	1.98	1.73	20.47	2.25	----	----	0.00	0.00	23.15	4.38	27.53
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	0.50	1.34	1.34	0.85	0.00	0.70	0.00	64.70	0.00	----	----	0.00	0.00	66.75	1.34	68.09
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	0.76	2.09	2.09	1.12	0.00	0.59	0.00	64.72	2.00	----	----	0.00	0.00	67.19	4.09	71.28
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	0.74	2.06	2.06	1.12	0.00	1.10	0.00	63.10	1.93	----	----	0.00	0.00	66.06	3.99	70.05
1978	0.70	2.07	2.07	1.25	0.00	0.50	0.00	39.46	1.20	----	----	0.00	0.00	41.91	3.27	45.18
1979	0.70	1.97	1.97	1.21	0.00	0.72	0.00	42.29	1.28	----	----	0.00	0.00	44.92	3.25	48.17
1980	0.70	2.49	2.49	1.20	0.00	0.53	0.00	34.26	1.03	----	----	0.00	0.00	36.69	3.52	40.21
1981	0.90	3.41	3.41	1.20	0.00	0.40	0.00	59.43	1.81	----	----	0.00	0.00	61.93	5.22	67.15
1982	0.79	3.31	3.30	1.29	0.00	0.06	0.00	43.82	1.36	----	----	0.00	0.00	45.96	4.67	50.63
1983	0.80	3.43	3.43	1.16	0.00	0.14	0.00	43.38	1.34	----	----	0.00	0.00	45.48	4.77	50.25
1984	0.72	3.61	3.60	2.19	0.00	0.34	0.00	72.23	2.23	----	----	0.00	0.00	75.48	5.84	81.32
1985	0.68	5.28	5.28	1.68	0.00	0.37	0.00	71.65	2.27	0.55	0.00	0.00	0.00	74.93	7.55	82.48
1986	0.61	4.04	4.03	2.16	0.00	0.28	0.00	63.54	1.97	----	----	0.00	0.00	66.59	6.01	72.60
1987	0.79	4.28	4.26	1.53	0.00	0.25	0.00	61.96	2.92	----	----	0.00	0.00	64.53	7.20	71.73
1988	0.86	5.93	5.91	1.62	0.00	0.25	0.00	47.21	2.71	----	----	0.00	0.00	49.94	8.64	58.58
1989	1.08	10.18	10.41	1.88	0.00	0.27	0.00	67.72	7.58	----	----	0.00	0.00	70.95	17.76	88.71
1990	1.63	9.19	9.98	1.89	0.00	0.26	0.22	97.74	10.51	0.53	0.00	0.00	0.00	102.05	19.92	121.97
1991	0.96	8.26	8.26	1.75	0.00	0.01	0.34	72.07	2.36	0.04	0.29	0.00	0.00	74.83	11.25	86.08
1992	0.75	8.47	8.47	1.64	0.00	0.01	0.72	66.07	1.52	0.04	0.30	0.00	0.00	68.51	11.01	79.52
1993	0.62	8.76	8.53	2.45	0.00	0.01	0.45	56.67	0.53	0.12	0.30	0.00	0.00	59.87	10.04	69.91
1994	1.05	9.29	9.28	2.22	0.00	0.24	0.78	52.31	0.56	0.16	0.20	0.00	0.00	55.98	10.83	66.81
1995	1.97	10.51	10.54	2.28	0.00	0.02	0.39	54.15	1.28	0.17	0.17	0.00	0.00	58.59	12.35	70.94
1996	2.96	9.68	11.26	2.23	0.00	0.15	0.85	63.54	1.04	0.19	0.22	0.00	0.00	69.07	11.79	80.86
1997	2.30	10.19	11.39	2.22	0.00	0.09	0.04	63.97	0.65	0.26	0.18	0.00	0.00	68.84	11.06	79.90
1998	1.84	12.60	12.54	1.55	0.00	0.04	0.18	69.04	0.96	0.41	0.08	0.00	0.00	72.88	13.82	86.70
1999	2.54	10.63	11.88	1.76	0.00	0.04	0.19	75.13	0.19	0.22	0.14	0.00	0.00	79.69	11.15	90.84
2000	4.49	6.10	8.63	2.16	0.00	0.06	1.33	116.95	1.92	0.21	0.16	0.00	0.00	123.87	9.51	133.38

Public supply transfers represents water withdrawn in DeSoto County and exported for use in Charlotte and Sarasota Counties and includes transfer losses.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965-1984 and 1986-1989.

Data source; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1990-1994, and 1996-1999 - published water-use data from the Southwest Florida Water Management District, Brooksville.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004) and Southwest Florida Water Management District (2002).

Appendix 1. Freshwater withdrawals by category in Dixie County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	0.40	0.00	0.00	0.10	0.00	0.00	0.00	0.04	0.09	----	----	0.00	0.00	0.54	0.09	0.63
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	0.40	0.00	0.00	0.42	0.00	0.90	0.00	0.05	0.04	----	----	0.00	0.00	1.77	0.04	1.81
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	0.42	0.00	0.00	0.29	0.00	0.45	3.09	0.43	0.08	----	----	0.00	0.00	1.59	3.17	4.76
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	0.48	0.00	0.00	0.36	0.00	0.48	4.30	0.30	0.27	----	----	0.00	0.00	1.62	4.57	6.19
1978	0.49	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1980	0.55	0.00	0.00	0.40	0.00	0.43	0.00	0.23	0.17	----	----	0.00	0.00	1.61	0.17	1.78
1981	0.58	0.00	0.00	----	----	0.35	0.00	----	----	----	----	----	----	N/A	N/A	N/A
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	0.64	0.00	0.00	0.66	0.00	0.94	0.00	1.82	0.15	0.00	0.00	0.00	0.00	4.06	0.15	4.21
1986	0.52	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	0.60	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	0.52	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	0.65	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	0.66	0.00	0.00	0.87	0.00	0.90	0.00	3.44	0.00	0.00	0.00	0.00	0.00	5.87	0.00	5.87
1991	0.64	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	0.66	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	0.67	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	0.66	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	0.64	0.00	0.00	1.25	0.00	0.41	0.00	1.11	0.00	0.00	0.00	0.00	0.00	3.41	0.00	3.41
1996	0.65	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1997	0.65	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	0.72	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	0.64	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	0.67	0.00	0.00	0.98	0.00	0.26	0.00	1.59	0.03	0.00	0.00	0.00	0.00	3.50	0.03	3.53

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Duval County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	60.00	0.00	0.00	17.40	0.00	47.00	1.00	0.04	0.09	----	----	2.80	0.00	127.24	1.09	128.33
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	67.80	0.00	0.00	36.20	0.00	60.90	0.00	3.70	0.00	----	----	0.30	0.00	168.90	0.00	168.90
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	73.50	0.00	0.00	32.90	0.00	48.63	0.14	2.33	0.22	----	----	2.10	0.00	159.46	0.36	159.82
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	69.90	0.00	0.00	27.60	0.00	48.23	0.05	2.31	2.29	----	----	1.87	0.00	149.91	2.34	152.25
1978	59.56	0.00	0.00	23.44	0.00	42.98	0.00	0.42	1.65	----	----	2.63	0.00	129.03	1.65	130.68
1979	74.60	0.00	0.00	27.70	0.00	35.80	0.00	7.28	2.25	----	----	2.65	0.00	148.03	2.25	150.28
1980	73.25	0.00	0.00	20.26	0.00	40.46	0.00	4.79	1.39	----	----	2.65	0.00	141.41	1.39	142.80
1981	74.71	0.00	0.00	23.85	0.00	39.20	0.00	4.97	2.34	----	----	2.48	0.00	145.21	2.34	147.55
1982	70.19	0.00	0.00	17.08	0.00	35.81	0.00	4.62	2.26	----	----	2.16	0.00	129.86	2.26	132.12
1983	70.45	0.00	0.00	18.05	0.00	38.69	0.00	4.72	2.29	----	----	1.98	0.00	133.89	2.29	136.18
1984	77.55	0.00	0.00	19.17	0.00	40.07	0.00	4.62	2.37	----	----	2.79	0.00	144.20	2.37	146.57
1985	84.86	0.00	0.00	15.50	0.00	38.08	0.00	7.04	0.39	3.90	0.98	2.06	0.00	151.44	1.37	152.81
1986	89.20	0.00	0.00	16.62	0.00	22.82	0.00	4.93	0.24	4.24	0.98	3.09	0.00	140.90	1.22	142.12
1987	94.28	0.00	0.00	17.27	0.00	37.75	0.00	4.98	0.12	3.75	0.86	3.57	0.00	161.60	0.98	162.58
1988	93.44	0.00	0.00	15.55	0.00	40.11	0.00	4.95	0.10	3.74	0.86	3.81	0.00	161.60	0.96	162.56
1989	94.06	0.00	0.00	13.41	0.00	39.89	0.00	5.87	0.27	3.35	0.75	4.44	0.00	161.02	1.02	162.04
1990	96.32	0.00	0.00	8.37	0.00	33.93	0.00	5.32	0.42	4.21	0.98	4.83	0.00	152.98	1.40	154.38
1991	92.55	0.00	0.00	7.56	0.00	35.69	0.00	3.22	0.07	3.62	0.83	4.77	0.00	147.41	0.90	148.31
1992	94.80	0.00	0.00	8.35	0.00	31.17	0.00	2.93	0.05	1.02	0.22	4.42	0.00	142.69	0.27	142.96
1993	99.78	0.00	0.00	8.35	0.00	23.41	0.00	1.93	0.12	3.48	0.84	5.00	0.00	141.95	0.96	142.91
1994	99.09	0.00	0.00	8.66	0.00	24.56	0.00	1.92	0.12	3.41	0.83	4.62	0.00	142.26	0.95	143.21
1995	99.62	0.00	0.00	11.87	0.00	24.75	0.00	0.88	0.05	2.02	0.43	5.47	0.00	144.61	0.48	145.09
1996	106.81	0.00	0.00	11.50	0.00	24.15	0.00	1.09	0.08	2.97	0.65	4.54	0.00	151.06	0.73	151.79
1997	104.93	0.00	0.00	11.18	0.00	25.83	0.00	0.94	0.06	3.03	0.67	5.44	0.00	151.35	0.73	152.08
1998	107.43	0.00	0.00	11.57	0.00	22.02	0.00	1.30	0.09	3.34	0.73	5.28	0.00	150.94	0.82	151.76
1999	112.47	0.00	0.00	13.88	0.00	16.37	0.00	0.92	0.06	2.76	0.60	5.54	0.00	151.94	0.66	152.60
2000	119.12	0.00	0.00	4.46	0.00	12.51	0.00	3.74	0.33	6.17	1.32	8.33	0.00	154.33	1.65	155.98

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - Published water-use data from the St. Johns River Water Management District, Palatka.

995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004) and St. Johns River Water Management District (2004).

Appendix 1. Freshwater withdrawals by category in Escambia County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	17.40	0.00	0.00	3.00	0.00	41.20	39.60	0.10	0.10	----	----	0.50	218.00	62.20	257.70	319.90
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	20.30	0.00	0.00	5.63	0.00	47.80	42.90	0.10	0.00	----	----	0.80	205.00	74.63	247.90	322.53
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	27.46	0.00	0.00	3.28	0.00	44.75	31.70	3.65	0.44	----	----	2.52	265.40	81.66	297.54	379.20
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	30.48	0.00	0.00	4.18	0.00	47.36	25.60	0.77	0.39	----	----	2.50	249.70	85.29	275.69	360.98
1978	29.72	0.00	0.00	4.08	0.00	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1980	30.53	0.00	0.00	3.95	0.00	34.47	20.51	1.17	1.32	----	----	2.50	335.60	72.62	357.43	430.05
1981	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	33.07	0.00	0.00	4.71	0.00	35.54	16.89	1.42	0.48	3.80	0.00	2.20	241.40	80.74	258.77	339.51
1986	34.45	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	35.20	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	36.22	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	35.19	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	36.88	0.00	0.00	3.66	0.00	32.39	19.34	1.53	0.14	4.70	0.00	2.20	190.43	81.36	209.91	291.27
1991	33.44	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	35.50	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	36.54	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	34.81	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	37.73	0.00	0.62	3.39	0.00	37.20	22.19	1.66	0.31	4.74	0.62	2.11	159.60	86.83	182.72	269.55
1996	39.10	0.00	1.11	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1997	39.18	0.00	1.15	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	42.32	0.00	1.17	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	41.09	0.00	1.05	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	44.63	0.00	1.07	1.60	0.00	35.77	24.65	2.73	0.00	4.79	0.77	2.42	199.89	91.94	225.31	317.25

Public supply transfers represent water withdrawn in Escambia County and exported for use in Santa Rosa County.

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Flagler County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	0.20	0.00	0.00	0.13	0.00	0.00	0.00	3.70	0.00	----	----	0.00	0.00	4.03	0.00	4.03
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	0.30	0.00	0.00	0.20	0.00	0.00	0.00	9.00	0.20	----	----	0.00	0.00	9.50	0.20	9.70
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	0.62	0.00	0.00	0.09	0.00	0.00	0.00	8.68	0.00	----	----	0.00	0.00	9.39	0.00	9.39
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	0.62	0.00	0.00	0.28	0.00	0.00	0.00	3.45	0.05	----	----	0.00	0.00	4.35	0.05	4.40
1978	0.52	0.00	0.00	0.57	0.00	0.00	0.00	3.21	0.05	----	----	0.00	0.00	4.30	0.05	4.35
1979	1.37	0.00	0.00	0.33	0.00	0.00	0.00	8.44	0.23	----	----	0.00	0.00	10.14	0.23	10.37
1980	0.77	0.00	0.00	0.44	0.00	0.00	0.00	4.14	0.05	----	----	0.00	0.00	5.35	0.05	5.40
1981	1.70	0.00	0.00	0.54	0.00	0.04	0.00	6.96	0.17	----	----	0.00	0.00	9.24	0.17	9.41
1982	1.45	0.00	0.00	0.48	0.00	0.05	0.00	5.85	0.17	----	----	0.00	0.00	7.83	0.17	8.00
1983	1.55	0.00	0.00	0.27	0.00	0.00	0.00	6.45	0.17	----	----	0.00	0.00	8.27	0.17	8.44
1984	1.77	0.00	0.00	0.29	0.00	0.10	0.00	6.13	0.48	----	----	0.00	0.00	8.29	0.48	8.77
1985	2.22	0.00	0.00	0.31	0.00	0.10	0.00	6.12	0.05	0.19	0.88	0.00	0.00	8.94	0.93	9.87
1986	2.12	0.00	0.00	0.27	0.00	0.13	0.00	6.73	0.01	0.16	1.32	0.00	0.00	9.41	1.33	10.74
1987	2.56	0.00	0.00	0.25	0.00	0.16	0.00	5.59	0.01	0.14	1.08	0.00	0.00	8.70	1.09	9.79
1988	3.03	0.00	0.00	0.42	0.00	0.16	0.00	6.70	0.01	0.11	0.91	0.00	0.00	10.42	0.92	11.34
1989	3.34	0.00	0.00	0.76	0.00	0.16	0.00	6.64	0.00	0.12	0.96	0.00	0.00	11.02	0.96	11.98
1990	3.85	0.00	0.00	1.87	0.00	0.25	0.00	7.34	0.00	0.16	1.20	0.00	0.00	13.47	1.20	14.67
1991	3.79	0.00	0.00	2.15	0.00	0.16	0.00	5.15	0.00	0.14	1.08	0.00	0.00	11.39	1.08	12.47
1992	4.09	0.00	0.00	2.24	0.00	0.15	0.00	8.02	0.00	0.08	0.63	0.00	0.00	14.58	0.63	15.21
1993	4.07	0.00	0.00	1.64	0.00	0.17	0.00	7.01	0.15	0.13	0.89	0.00	0.00	13.02	1.04	14.06
1994	4.20	0.00	0.00	1.69	0.00	0.20	0.00	7.39	0.15	0.13	0.88	0.00	0.00	13.61	1.03	14.64
1995	4.51	0.00	0.00	1.85	0.00	0.18	0.00	6.65	0.00	0.11	0.85	0.00	0.00	13.30	0.85	14.15
1996	4.50	0.00	0.00	1.83	0.00	0.07	0.00	6.66	0.00	0.18	1.42	0.00	0.00	13.24	1.42	14.66
1997	4.93	0.00	0.00	1.96	0.00	0.07	0.00	6.07	0.00	0.18	1.44	0.00	0.00	13.21	1.44	14.65
1998	5.22	0.00	0.00	2.13	0.00	0.06	0.00	8.22	0.00	0.20	1.63	0.00	0.00	15.83	1.63	17.46
1999	6.08	0.00	0.00	2.54	0.00	0.05	0.00	9.46	0.00	0.15	1.23	0.00	0.00	18.28	1.23	19.51
2000	6.22	0.00	0.00	0.62	0.00	0.20	0.07	15.67	0.03	1.84	3.50	0.00	0.00	24.55	3.60	28.15

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - Published water-use data from the St. Johns River Water Management District, Palatka.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004) and St. Johns River Water Management District (2004).

Appendix 1. Freshwater withdrawals by category in Franklin County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	0.50	0.00	0.00	0.10	0.00	0.20	0.00	0.11	0.01	----	----	0.00	0.00	0.91	0.01	0.92
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	0.50	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.00	----	----	0.00	0.00	0.87	0.00	0.87
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	0.99	0.00	0.00	0.12	0.01	0.00	0.00	0.00	0.01	----	----	0.00	0.00	1.11	0.02	1.13
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	1.11	0.00	0.00	0.20	0.00	0.01	0.00	0.01	0.01	----	----	0.00	0.00	1.33	0.01	1.34
1978	1.08	0.00	0.00	0.18	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1980	1.00	0.00	0.00	0.29	0.00	0.01	0.00	0.00	0.00	----	----	0.00	0.00	1.30	0.00	1.30
1981	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	1.20	0.00	0.00	0.15	0.00	0.00	0.00	0.77	0.00	0.86	0.00	0.00	0.00	2.98	0.00	2.98
1986	1.54	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	1.52	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	1.46	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	1.58	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	1.63	0.00	0.00	0.19	0.00	0.00	0.00	0.37	0.11	0.37	0.00	0.00	0.00	2.56	0.11	2.67
1991	1.46	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	1.56	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	1.76	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	1.74	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	1.75	0.00	0.00	0.40	0.00	0.00	0.00	0.17	0.00	0.57	0.00	0.00	0.00	2.89	0.00	2.89
1996	1.81	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1997	1.66	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	1.85	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	1.79	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	1.92	0.00	0.00	0.19	0.00	0.00	0.00	0.01	0.00	0.13	0.00	0.00	0.00	2.25	0.00	2.25

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Gadsden County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	0.60	1.20	0.00	1.10	0.00	0.20	2.10	0.80	4.90	----	----	0.00	0.00	2.70	8.20	10.90
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	0.80	1.20	0.00	2.66	0.00	0.10	2.10	0.50	2.10	----	----	0.00	0.00	4.06	5.40	9.46
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	0.96	1.18	0.00	1.97	0.10	0.09	1.94	0.03	2.73	----	----	0.00	0.00	3.05	5.95	9.00
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	1.08	1.48	0.00	2.08	0.10	0.09	1.95	0.38	4.63	----	----	0.00	0.00	3.63	8.16	11.79
1978	1.12	1.30	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1980	1.22	1.02	0.00	2.62	0.08	0.14	1.70	0.32	6.38	----	----	0.00	0.00	4.30	9.18	13.48
1981	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	1.60	1.13	0.00	2.30	0.00	1.96	0.00	2.59	6.19	0.00	0.35	0.00	0.00	8.45	7.67	16.12
1986	1.87	1.28	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	1.93	1.43	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	2.10	1.45	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	2.05	1.25	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	2.13	1.29	0.00	2.00	0.00	2.16	0.00	2.99	7.43	0.25	0.26	0.00	0.00	9.53	8.98	18.51
1991	2.16	1.18	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	2.14	1.24	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	2.25	1.29	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	2.12	1.17	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	2.43	1.43	0.00	2.37	0.00	1.04	1.81	1.76	5.33	0.11	0.10	0.00	0.00	7.71	8.67	16.38
1996	2.47	1.39	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1997	2.72	1.45	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	2.82	1.47	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	2.76	1.54	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	3.06	1.28	0.00	1.85	0.00	0.92	0.00	2.95	5.97	0.15	0.15	0.00	0.00	8.93	7.40	16.33

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Gilchrist County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	0.10	0.00	0.00	0.10	0.00	0.05	0.00	0.03	0.17	----	----	0.00	0.00	0.28	0.17	0.45
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	0.10	0.00	0.00	0.29	0.00	0.00	0.00	0.20	0.00	----	----	0.00	0.00	0.59	0.00	0.59
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	0.38	0.00	0.00	0.36	0.00	0.03	0.00	0.23	0.14	----	----	0.00	0.00	1.00	0.14	1.14
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	0.53	0.00	0.00	0.43	0.00	0.03	0.00	1.37	0.51	----	----	0.00	0.00	2.36	0.51	2.87
1978	0.62	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1980	0.36	0.00	0.00	0.53	0.00	0.06	0.00	1.33	0.42	----	----	0.00	0.00	2.28	0.42	2.70
1981	0.32	0.00	0.00	----	----	0.05	0.00	----	----	----	----	----	----	N/A	N/A	N/A
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	0.34	0.00	0.00	1.16	0.00	0.08	0.00	3.83	0.00	0.00	0.00	0.00	0.00	5.41	0.00	5.41
1986	0.42	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	0.40	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	0.37	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	0.37	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	0.27	0.00	0.00	1.31	0.00	0.13	0.00	9.35	0.00	0.00	0.00	0.00	0.00	11.06	0.00	11.06
1991	0.26	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	0.27	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	0.24	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	0.23	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	0.22	0.00	0.00	1.27	0.00	0.15	0.00	7.62	0.10	0.00	0.00	0.00	0.00	9.26	0.10	9.36
1996	0.22	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1997	0.21	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	0.23	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	0.24	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	0.27	0.00	0.00	1.33	0.00	0.26	0.00	13.97	0.32	0.00	0.00	0.00	0.00	15.83	0.32	16.15

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Glades County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	0.10	0.00	0.00	0.10	0.01	0.00	0.00	0.35	9.25	----	----	0.00	0.00	0.55	9.26	9.81
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	0.20	0.00	0.00	0.26	0.00	0.40	0.00	5.20	41.10	----	----	0.00	0.00	6.06	41.10	47.16
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	0.20	0.00	0.00	0.40	0.00	0.00	0.00	11.46	42.01	----	----	0.00	0.00	12.06	42.01	54.07
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	0.22	0.00	0.00	0.42	0.00	0.66	0.00	12.41	46.92	----	----	0.00	0.00	13.71	46.92	60.63
1978	0.21	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1980	0.21	0.00	0.00	0.72	0.00	0.00	0.00	17.46	107.31	----	----	0.00	0.00	18.39	107.31	125.70
1981	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	0.25	0.00	0.00	0.56	0.00	1.48	0.00	13.67	66.12	0.00	0.00	0.00	0.00	15.96	66.12	82.08
1986	0.36	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	0.26	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	0.40	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	0.42	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	0.40	0.00	0.00	0.58	0.00	0.27	0.00	17.91	61.88	0.00	0.67	0.00	0.00	19.16	62.55	81.71
1991	0.37	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	0.34	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	0.36	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	0.36	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	0.38	0.00	0.00	0.56	0.00	0.36	14.53	19.65	64.04	0.00	0.07	0.00	0.00	20.95	78.64	99.59
1996	0.39	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1997	0.73	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	0.79	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	0.78	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	0.55	0.00	0.00	0.61	0.00	0.14	3.93	19.71	49.31	0.02	0.40	0.00	0.00	21.03	53.64	74.67

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Gulf County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	0.10	0.30	0.00	0.20	0.00	0.00	24.90	0.03	0.00	----	----	0.00	0.00	0.33	25.20	25.53
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	0.10	0.40	0.00	0.49	0.00	0.20	35.73	0.00	0.00	----	----	0.00	0.00	0.79	36.13	36.92
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	0.11	0.64	0.00	0.43	0.00	0.52	33.20	0.26	0.08	----	----	0.00	0.00	1.32	33.92	35.24
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	0.16	0.72	0.00	0.56	0.00	0.52	33.20	0.24	0.04	----	----	0.00	0.00	1.48	33.96	35.44
1978	0.17	0.82	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1980	0.96	0.00	0.00	0.51	0.00	0.54	33.40	0.02	0.04	----	----	0.00	0.00	2.03	33.44	35.47
1981	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	0.98	0.00	0.00	0.74	0.00	0.42	31.68	1.34	2.17	0.55	0.00	0.00	0.00	4.03	33.85	37.88
1986	1.10	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	1.07	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	1.15	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	1.28	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	1.26	0.00	0.00	0.34	0.00	0.58	32.89	4.72	5.17	0.21	0.00	0.00	0.00	7.11	38.06	45.17
1991	1.10	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	1.13	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	1.30	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	1.20	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	1.28	0.00	0.00	0.40	0.00	0.68	27.98	0.58	0.00	0.17	0.00	0.00	0.00	3.11	27.98	31.09
1996	1.35	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1997	1.36	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	1.41	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	1.00	0.40	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	1.47	0.00	0.00	0.32	0.00	0.90	1.65	0.21	0.00	0.20	0.00	0.00	0.00	3.10	1.65	4.75

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Hamilton County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	0.20	0.00	0.00	0.25	0.00	10.30	0.00	0.83	0.28	----	----	0.00	0.00	11.58	0.28	11.86
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	0.50	0.00	0.00	0.42	0.00	18.40	0.00	0.50	0.20	----	----	0.00	0.00	19.82	0.20	20.02
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	0.60	0.00	0.00	0.28	0.00	30.30	0.00	1.75	0.22	----	----	0.00	0.00	32.93	0.22	33.15
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	0.81	0.00	0.00	0.38	0.00	28.80	0.00	1.79	0.40	----	----	0.00	0.00	31.78	0.40	32.18
1978	0.76	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1980	0.68	0.00	0.00	0.57	0.00	35.82	0.00	0.71	0.22	----	----	0.00	0.00	37.78	0.22	38.00
1981	0.62	0.00	0.00	----	----	41.56	0.00	----	----	----	----	----	----	N/A	N/A	N/A
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	0.73	0.00	0.00	0.95	0.00	38.79	0.00	2.71	0.00	0.20	0.00	0.00	0.00	43.38	0.00	43.38
1986	0.77	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	0.83	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	0.90	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	0.92	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	0.97	0.00	0.00	1.11	0.00	44.08	0.00	4.41	0.00	0.03	0.00	0.00	0.00	50.60	0.00	50.60
1991	0.86	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	0.82	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	0.93	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	0.87	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	0.87	0.00	0.00	0.84	0.00	39.64	0.00	4.80	0.00	0.03	0.00	0.00	0.00	46.18	0.00	46.18
1996	0.89	0.00	0.00	----	----	34.58	0.00	----	----	----	----	----	----	N/A	N/A	N/A
1997	0.82	0.00	0.00	----	----	34.05	0.00	----	----	----	----	----	----	N/A	N/A	N/A
1998	0.84	0.00	0.00	----	----	32.68	0.00	----	----	----	----	----	----	N/A	N/A	N/A
1999	0.87	0.00	0.00	----	----	34.90	0.00	----	----	----	----	----	----	N/A	N/A	N/A
2000	0.95	0.00	0.00	0.74	0.00	34.39	0.00	5.53	0.11	0.00	0.00	0.00	0.00	41.61	0.11	41.72

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Hardee County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	0.80	0.00	0.00	0.32	0.00	0.60	0.00	42.24	2.24	----	----	0.00	0.00	43.96	2.24	46.20
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	0.70	0.00	0.00	1.01	0.00	0.10	0.00	62.50	0.00	----	----	0.00	0.00	64.31	0.00	64.31
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	1.20	0.00	0.00	1.16	0.00	1.45	0.00	93.30	0.00	----	----	0.00	0.00	97.11	0.00	97.11
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	1.02	0.00	0.00	1.05	0.00	9.94	0.00	57.35	0.00	----	----	0.00	0.00	69.36	0.00	69.36
1978	0.80	0.00	0.00	1.33	0.00	11.00	0.00	49.30	0.00	----	----	0.00	0.00	62.43	0.00	62.43
1979	1.20	0.00	0.00	1.09	0.00	16.00	0.00	35.99	0.00	----	----	0.00	0.00	54.28	0.00	54.28
1980	1.30	0.00	0.00	1.19	0.00	0.80	0.00	40.29	0.00	----	----	0.00	0.00	43.58	0.00	43.58
1981	1.50	0.00	0.00	1.11	0.00	0.25	0.00	58.77	0.00	----	----	0.00	0.00	61.63	0.00	61.63
1982	1.36	0.00	0.00	1.12	0.00	2.91	0.00	41.17	0.00	----	----	0.00	0.00	46.56	0.00	46.56
1983	1.03	0.00	0.00	1.30	0.00	0.11	0.00	44.51	0.00	----	----	0.00	0.00	46.95	0.00	46.95
1984	1.29	0.00	0.00	1.72	0.00	4.69	0.00	81.28	0.00	----	----	0.00	0.00	88.98	0.00	88.98
1985	1.32	0.00	0.00	1.82	0.00	4.83	0.00	84.78	0.00	1.43	0.00	0.00	0.00	94.18	0.00	94.18
1986	1.30	0.00	0.00	1.82	0.00	7.13	0.00	60.03	0.00	----	----	0.00	0.00	70.28	0.00	70.28
1987	1.35	0.00	0.00	1.99	0.00	7.61	0.00	43.53	1.86	----	----	0.00	0.00	54.48	1.86	56.34
1988	1.44	0.00	0.00	1.96	0.00	0.29	0.00	63.58	1.91	----	----	0.00	0.00	67.27	1.91	69.18
1989	1.48	0.00	0.00	2.04	0.00	0.10	0.00	57.24	6.36	----	----	0.00	0.00	60.86	6.36	67.22
1990	1.43	0.00	0.00	1.93	0.00	0.10	0.00	57.05	5.95	0.09	0.00	0.00	0.00	60.60	5.95	66.55
1991	1.52	0.00	0.00	1.30	0.00	1.04	0.00	55.63	2.28	0.00	0.00	0.00	0.00	59.49	2.28	61.77
1992	1.46	0.00	0.00	1.21	0.00	0.80	0.01	58.97	2.43	0.00	0.00	0.00	0.00	62.44	2.44	64.88
1993	1.60	0.00	0.00	1.30	0.00	0.07	0.41	50.74	0.00	0.02	0.00	0.00	0.00	53.73	0.41	54.14
1994	1.44	0.00	0.00	1.28	0.00	0.06	0.01	50.64	0.34	0.10	0.00	0.00	0.00	53.52	0.35	53.87
1995	1.61	0.00	0.00	1.77	0.00	2.81	0.00	43.93	0.51	0.12	0.00	0.25	0.00	50.49	0.51	51.00
1996	1.63	0.00	0.00	1.49	0.00	6.92	0.00	57.89	0.59	0.13	0.00	0.00	0.00	68.06	0.59	68.65
1997	1.57	0.00	0.00	0.63	0.00	2.32	0.00	54.92	0.42	0.16	0.00	0.00	0.00	59.60	0.42	60.02
1998	1.74	0.00	0.00	0.58	0.00	0.55	0.00	59.64	0.76	0.15	0.00	0.00	0.00	62.66	0.76	63.42
1999	1.69	0.00	0.00	0.49	0.00	4.15	0.00	62.60	0.56	0.16	0.00	0.00	0.00	69.09	0.56	69.65
2000	1.78	0.00	0.00	0.64	0.00	5.93	0.00	81.16	0.57	0.21	0.04	0.81	0.00	90.53	0.61	91.14

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965-1984 and 1986-1989.

Data source; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee, and published data from the Southwest Florida Water Management District, Brooksville.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004) and Southwest Florida Water Management District (2002).

Appendix 1. Freshwater withdrawals by category in Hendry County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	0.10	0.40	0.00	0.70	0.00	0.00	1.10	38.36	212.07	----	----	0.00	0.00	39.16	213.57	252.73
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	0.20	1.20	0.00	0.65	0.00	0.10	0.20	25.00	221.40	----	----	0.00	0.00	25.95	222.80	248.75
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	0.25	1.80	0.00	0.70	0.00	0.22	0.60	80.59	213.08	----	----	0.00	0.00	81.76	215.48	297.24
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	0.25	1.30	0.00	0.62	0.00	0.25	0.71	86.56	204.95	----	----	0.00	0.00	87.68	206.96	294.64
1978	0.26	1.44	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1980	0.38	1.62	0.00	0.84	0.00	0.23	0.00	110.42	134.77	----	----	0.00	0.00	111.87	136.39	248.26
1981	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	0.51	2.38	0.00	0.78	0.00	0.50	0.00	29.77	158.06	0.00	0.00	0.00	0.00	31.56	160.44	192.00
1986	0.51	2.56	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	0.48	2.68	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	0.67	2.73	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	0.80	2.90	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	0.76	2.84	0.00	1.97	0.00	1.06	0.00	167.82	317.43	0.00	1.08	0.00	0.00	171.61	321.35	492.96
1991	0.74	3.08	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	0.85	2.74	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	0.70	2.87	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	0.73	2.85	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	0.77	3.25	0.00	1.21	0.00	0.97	0.00	149.33	400.32	0.82	0.34	0.00	0.00	153.10	403.91	557.01
1996	0.76	3.06	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1997	0.80	2.59	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	0.79	3.17	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	0.79	4.16	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	0.95	3.77	0.00	1.67	0.00	0.72	0.00	193.37	310.54	0.41	0.68	0.00	0.00	197.12	314.99	512.11

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Hernando County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	0.50	0.00	0.00	0.40	0.00	27.00	0.00	1.90	0.15	----	----	0.00	0.00	29.80	0.15	29.95
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	0.60	0.00	0.00	1.44	0.00	19.60	0.00	1.70	0.02	----	----	0.00	0.00	23.34	0.02	23.36
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	0.75	0.00	0.00	2.35	0.00	25.38	0.00	3.07	0.31	----	----	0.00	0.00	31.55	0.31	31.86
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	0.92	0.00	0.00	2.69	0.00	33.76	0.00	5.12	0.89	----	----	0.00	0.00	42.49	0.89	43.38
1978	1.00	0.00	0.00	2.88	0.00	33.80	0.00	5.03	0.80	----	----	0.00	0.00	42.71	0.80	43.51
1979	1.10	0.00	0.00	3.19	0.00	34.60	0.00	5.43	0.89	----	----	0.00	0.00	44.32	0.89	45.21
1980	1.10	0.00	0.00	3.89	0.00	31.60	0.00	4.90	0.10	----	----	0.00	0.00	41.49	0.10	41.59
1981	1.10	0.00	0.00	4.29	0.00	34.30	1.90	6.59	0.10	----	----	0.00	0.00	46.28	2.00	48.28
1982	5.59	0.00	0.00	2.23	0.00	31.36	0.00	6.96	0.00	----	----	0.00	0.00	46.14	0.00	46.14
1983	5.32	0.00	0.00	2.38	0.00	25.59	0.00	4.61	0.00	----	----	0.00	0.00	37.90	0.00	37.90
1984	6.94	0.00	0.00	3.90	0.00	28.73	0.00	5.75	0.00	----	----	0.00	0.00	45.32	0.00	45.32
1985	7.88	0.00	0.00	0.96	0.00	26.74	0.00	3.67	0.00	1.61	0.00	0.00	0.00	40.86	0.00	40.86
1986	9.08	0.00	0.00	2.00	0.00	29.02	0.00	6.76	0.00	----	----	0.00	0.00	46.86	0.00	46.86
1987	10.48	0.00	0.00	0.31	0.00	28.88	0.00	4.24	0.81	----	----	0.00	0.00	43.91	0.81	44.72
1988	12.74	0.00	0.00	0.65	0.00	24.25	0.00	1.74	2.03	----	----	0.00	0.00	39.38	2.03	41.41
1989	14.36	0.00	0.00	1.51	0.00	24.80	0.00	5.31	0.27	----	----	0.00	0.00	45.98	0.27	46.25
1990	15.01	0.00	0.00	1.71	0.00	23.31	0.00	2.36	0.35	2.40	0.00	0.00	0.00	44.79	0.35	45.14
1991	14.43	0.00	0.00	2.39	0.00	11.59	1.95	3.69	4.02	2.73	0.76	0.00	0.00	34.83	6.73	41.56
1992	16.40	0.00	0.00	2.02	0.00	13.99	1.23	3.62	3.61	4.00	0.60	0.00	0.00	40.03	5.44	45.47
1993	16.93	0.00	0.00	3.49	0.00	13.88	1.34	2.95	0.00	2.90	1.42	0.00	0.00	40.15	2.76	42.91
1994	15.85	0.01	0.00	2.93	0.00	15.10	0.36	2.61	0.00	3.33	1.42	0.00	0.00	39.82	1.79	41.61
1995	17.06	0.01	0.00	2.44	0.00	13.97	0.70	2.37	0.00	3.74	1.33	0.00	0.00	39.58	2.04	41.62
1996	16.55	0.01	0.00	1.27	0.00	11.62	1.15	2.43	0.00	4.41	1.20	0.00	0.00	36.28	2.36	38.64
1997	18.20	0.01	0.00	1.53	0.00	19.76	0.03	2.41	0.00	4.26	0.83	0.00	0.00	46.16	0.87	47.03
1998	20.54	0.01	0.00	1.22	0.00	15.12	0.00	2.65	0.02	3.53	0.50	0.00	0.00	43.06	0.53	43.59
1999	20.49	0.01	0.00	1.32	0.00	25.85	0.06	2.71	0.03	3.90	0.57	0.00	0.00	54.27	0.67	54.94
2000	20.26	0.01	0.00	1.41	0.00	19.70	0.07	4.26	0.03	3.83	0.88	0.00	0.00	49.46	0.99	50.45

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965-1984 and 1986-1989.

Data source; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee, and published data from the Southwest Florida Water Management District, Brooksville.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004) and Southwest Florida Water Management District (2002).

Appendix 1. Freshwater withdrawals by category in Highlands County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	4.40	0.60	0.00	0.39	0.00	0.00	0.00	31.72	21.11	----	----	0.00	123.00	36.51	144.71	181.22
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	4.10	0.60	0.00	0.73	0.00	0.10	0.00	22.40	35.40	----	----	0.02	226.00	27.35	262.00	289.35
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	4.26	0.00	0.00	1.84	0.00	0.70	0.00	86.90	58.70	----	----	0.00	95.23	93.70	153.93	247.63
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	3.73	0.00	0.00	1.66	0.00	0.70	0.00	97.53	63.36	----	----	0.00	95.23	103.62	158.59	262.21
1978	4.30	0.00	0.00	1.89	0.00	0.70	0.00	155.78	29.90	----	----	0.00	76.00	162.67	105.90	268.57
1979	4.30	0.00	0.00	2.11	0.00	0.10	0.00	42.88	9.58	----	----	0.00	76.40	49.39	85.98	135.37
1980	5.00	0.00	0.00	3.37	0.00	0.95	0.00	57.56	32.93	----	----	0.00	76.41	66.88	109.34	176.22
1981	6.84	0.00	0.00	3.46	0.00	0.30	0.00	69.88	40.28	----	----	0.00	77.00	80.48	117.28	197.76
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	7.88	0.00	0.00	2.77	0.00	0.51	0.00	87.85	14.16	1.39	0.00	0.00	9.11	100.40	23.27	123.67
1986	7.73	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	7.82	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	8.42	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	8.76	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	8.30	0.00	0.00	3.43	0.00	0.21	0.00	115.35	10.14	1.99	0.00	0.07	1.98	129.35	12.12	141.47
1991	8.61	0.18	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	8.42	0.21	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	8.75	0.21	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	7.72	0.08	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	8.27	0.06	0.00	2.86	0.00	0.50	0.85	99.06	5.62	2.14	0.08	0.00	0.03	112.83	6.64	119.47
1996	8.07	0.09	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1997	7.92	0.08	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	8.57	0.11	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	8.79	0.09	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	9.14	0.00	0.00	1.68	0.00	0.55	0.03	143.24	17.07	2.60	0.16	0.08	0.00	157.29	17.26	174.55

Highlands County is located within the South Florida and the Southwest Florida Water Management Districts. The values shown represent the County totals as reported by the Districts.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965-1984 and 1986-1989.

Data source; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee, and published data from the Southwest Florida Water Management District, Brooksville.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004) and Southwest Florida Water Management District (2002).

Appendix 1. Freshwater withdrawals by category in Hillsborough County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	18.80	38.20	13.20	6.50	0.00	82.00	2.00	44.73	11.21	----	----	0.00	0.00	152.03	51.41	203.44
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	35.20	44.60	28.00	14.44	0.00	40.00	11.90	64.20	5.10	----	----	0.00	0.00	153.84	61.60	215.44
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	31.44	52.70	24.27	21.26	0.00	20.80	8.10	48.50	2.27	----	----	0.00	0.00	122.00	63.07	185.07
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	41.38	56.64	27.96	8.73	0.00	26.76	7.40	52.28	2.52	----	----	0.00	0.00	129.15	66.56	195.71
1978	43.40	45.00	22.40	9.65	0.00	35.50	9.30	61.60	3.00	----	----	0.00	0.00	150.15	57.30	207.45
1979	54.21	39.00	25.11	8.14	0.00	21.40	7.90	62.54	3.02	----	----	0.00	0.00	146.29	49.92	196.21
1980	58.27	49.87	23.44	5.92	0.00	20.54	6.23	74.97	2.18	----	----	0.00	0.00	159.70	58.28	217.98
1981	63.61	58.70	22.31	6.15	0.00	15.20	7.20	91.57	3.15	----	----	0.00	0.00	176.53	69.05	245.58
1982	65.74	48.26	24.30	10.17	0.00	14.96	6.59	78.21	2.42	----	----	0.00	0.00	169.08	57.27	226.35
1983	56.77	49.48	23.07	18.31	0.00	22.57	0.07	79.77	2.47	----	----	0.07	0.00	177.49	52.02	229.51
1984	78.67	50.79	30.82	9.87	0.00	30.72	0.00	124.50	3.85	----	----	0.01	0.00	243.77	54.64	298.41
1985	81.81	64.46	32.18	6.05	0.00	34.36	0.00	103.15	2.84	4.75	0.61	0.05	0.00	230.17	67.91	298.08
1986	73.72	54.06	30.05	6.46	0.00	24.83	0.00	103.24	3.16	----	----	0.00	0.00	208.25	57.22	265.47
1987	63.64	58.96	17.44	14.67	0.00	20.47	0.00	88.52	3.07	----	----	0.00	0.00	187.30	62.03	249.33
1988	68.58	65.77	14.06	10.75	0.00	16.42	4.59	84.77	5.29	----	----	0.00	0.00	180.52	75.65	256.17
1989	68.06	68.69	7.36	14.75	0.00	22.07	4.18	96.50	12.80	----	----	0.04	0.00	201.42	85.67	287.09
1990	61.79	76.05	12.65	2.68	0.00	25.82	4.21	82.97	7.98	6.47	0.70	0.00	0.00	179.73	88.94	268.67
1991	56.78	77.28	13.20	2.86	0.00	22.46	9.33	73.74	19.99	3.75	3.58	0.00	0.00	159.59	110.18	269.77
1992	65.98	80.89	22.40	4.24	0.00	20.02	10.12	72.15	15.82	3.14	3.77	0.00	0.00	165.53	110.60	276.13
1993	63.13	68.07	17.23	13.85	0.00	36.83	5.62	64.74	3.15	6.49	4.11	0.00	0.00	185.04	80.95	265.99
1994	64.92	65.80	22.26	13.41	0.00	32.51	5.59	62.79	3.24	5.04	2.85	0.00	0.00	178.67	77.48	256.15
1995	63.75	65.75	15.67	12.37	0.00	27.60	5.54	60.39	2.90	5.11	2.93	0.00	0.00	169.22	77.12	246.34
1996	67.53	67.78	20.34	11.56	0.00	12.36	5.61	69.66	3.04	6.81	4.15	0.00	0.00	167.92	80.58	248.50
1997	77.16	74.52	19.80	10.39	0.00	12.24	4.42	63.18	3.15	9.38	4.39	0.00	0.00	172.35	86.48	258.83
1998	80.01	77.35	21.35	2.57	0.00	11.72	5.11	64.67	2.99	7.69	4.75	0.00	0.00	166.66	90.20	256.86
1999	83.91	86.67	29.57	5.65	0.00	10.28	5.60	68.25	3.28	7.48	4.25	0.00	0.00	175.57	99.80	275.37
2000	85.51	80.88	11.30	4.71	0.00	14.17	5.50	83.84	3.31	9.21	4.59	0.00	0.00	197.44	94.28	291.72

Public supply transfers represent water withdrawn in Hillsborough County and exported for use in Pinellas County and includes transfer losses.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965-1984 and 1986-1989.

Data source; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee, and published data from the Southwest Florida Water Management District, Brooksville.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004) and Southwest Florida Water Management District (2002).

Appendix 1. Freshwater withdrawals by category in Holmes County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	0.20	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.15	----	----	0.00	0.00	0.70	0.15	0.85
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	0.30	0.00	0.00	0.92	0.00	0.00	0.00	0.04	0.00	----	----	0.00	0.00	1.26	0.00	1.26
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	0.20	0.00	0.00	0.85	0.00	0.02	0.00	0.14	0.33	----	----	0.00	0.00	1.21	0.33	1.54
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	0.60	0.00	0.00	1.16	0.00	0.02	0.00	0.28	0.27	----	----	0.00	0.00	2.06	0.27	2.33
1978	0.66	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1980	0.64	0.00	0.00	1.27	0.00	0.06	0.00	0.41	0.41	----	----	0.00	0.00	2.38	0.41	2.79
1981	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	0.82	0.00	0.00	2.02	0.00	0.00	0.00	2.20	0.43	0.00	0.00	0.00	0.00	5.04	0.43	5.47
1986	0.85	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	0.88	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	0.90	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	0.92	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	1.10	0.00	0.00	2.29	0.00	0.00	0.00	2.21	1.16	0.00	0.00	0.00	0.00	5.60	1.16	6.76
1991	1.08	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	1.04	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	1.13	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	1.22	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	1.18	0.00	0.00	2.65	0.00	0.00	0.00	2.70	0.71	0.00	0.00	0.00	0.00	6.53	0.71	7.24
1996	1.16	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1997	1.15	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	1.26	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	1.28	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	1.38	0.00	0.00	1.35	0.00	0.00	0.00	0.78	0.19	0.26	0.13	0.00	0.00	3.77	0.32	4.09

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Indian River County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Treated	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	1.50	0.00	0.00	1.00	0.00	0.00	0.00	26.45	36.68	----	----	0.01	0.00	28.96	36.68	65.64
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	3.10	0.00	0.00	1.80	0.00	0.50	0.00	97.40	33.90	----	----	0.10	0.00	102.90	33.90	136.80
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	4.49	0.00	0.00	2.80	0.00	0.44	0.00	39.69	258.47	----	----	4.30	0.00	51.72	258.47	310.19
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	5.82	0.00	0.00	3.12	0.00	0.44	0.00	18.85	56.92	----	----	4.40	0.00	32.63	56.92	89.55
1978	6.98	0.00	0.00	3.25	0.00	1.05	0.00	49.56	165.80	----	----	1.50	0.00	62.34	165.80	228.14
1979	6.23	0.00	0.00	7.96	0.00	0.67	0.00	66.23	235.02	----	----	0.43	0.00	81.52	235.02	316.54
1980	6.21	0.00	0.00	4.04	0.00	1.07	0.00	64.15	214.55	----	----	4.30	0.00	79.77	214.55	294.32
1981	8.07	0.00	0.00	7.46	0.00	0.24	0.00	105.67	202.92	----	----	0.15	0.00	121.59	202.92	324.51
1982	7.51	0.00	0.00	11.77	0.00	0.23	0.00	88.47	162.44	----	----	0.28	0.00	108.26	162.44	270.70
1983	8.87	0.00	0.00	8.19	0.00	0.23	0.00	88.99	175.78	----	----	0.24	0.00	106.52	175.78	282.30
1984	8.08	0.00	0.00	7.34	0.00	0.26	0.00	88.63	174.40	----	----	0.31	0.00	104.62	174.40	279.02
1985	8.84	0.00	0.97	7.29	0.00	0.12	0.00	27.46	105.05	0.97	2.13	0.31	0.00	44.99	107.18	152.17
1986	10.38	0.00	N/A	7.47	0.00	0.18	0.00	41.14	112.81	3.09	1.44	0.24	0.00	62.50	114.25	176.75
1987	11.98	0.00	N/A	8.33	0.00	0.26	0.00	41.09	105.22	2.24	1.06	0.25	0.00	64.15	106.28	170.43
1988	12.28	0.00	N/A	8.96	0.00	0.27	0.00	53.69	134.77	2.88	1.37	0.08	0.00	78.16	136.14	214.30
1989	13.74	0.00	N/A	10.29	0.00	0.31	0.00	43.99	106.16	2.55	1.20	0.08	0.00	70.96	107.36	178.32
1990	13.17	0.00	4.51	8.94	0.00	0.29	0.00	47.89	164.43	2.48	1.19	0.08	0.00	72.85	165.62	238.47
1991	11.51	0.00	4.00	7.32	0.00	0.29	0.00	40.27	97.25	2.65	1.27	0.08	0.00	62.12	98.52	160.64
1992	11.63	0.00	4.07	6.90	0.00	0.22	0.00	75.30	178.00	1.62	0.77	0.08	0.00	95.75	178.77	274.52
1993	11.39	0.00	5.17	6.21	0.00	0.18	0.00	59.00	132.50	2.80	1.38	0.08	0.00	79.66	133.88	213.54
1994	9.91	0.00	4.25	5.99	0.00	0.72	0.00	63.20	142.49	2.76	1.36	0.21	0.00	82.79	143.85	226.64
1995	11.16	0.00	5.98	6.91	0.00	0.16	0.00	56.34	135.19	2.01	1.10	0.00	0.00	76.58	136.29	212.87
1996	11.36	0.00	6.54	7.37	0.00	0.14	0.00	49.80	128.56	2.42	1.30	0.00	0.00	71.09	129.86	200.95
1997	11.62	0.00	6.90	5.72	0.00	0.11	0.00	33.72	85.90	2.07	1.10	0.00	0.00	53.24	87.00	140.24
1998	12.97	0.00	7.38	6.68	0.00	0.15	0.00	54.36	120.86	2.16	1.15	0.00	0.00	76.32	122.01	198.33
1999	13.37	0.00	9.15	6.24	0.00	0.13	0.00	38.47	95.78	1.69	0.91	0.00	0.00	59.90	96.69	156.59
2000	13.93	0.00	6.23	1.87	0.00	0.12	0.00	64.63	157.86	6.81	3.22	0.00	0.00	87.36	161.08	248.44

Public supply treated includes water that does not meet public drinking water standards and is either treated through a desalination process or is diluted with fresher water to meet standards. The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - Published water-use data from the St. Johns River Water Management District, Palatka.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004) and St. Johns River Water Management District (2004).

Appendix 1. Freshwater withdrawals by category in Jackson County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	1.50	0.00	0.00	1.10	0.00	0.40	0.00	0.05	0.87	----	----	0.16	115.00	3.21	115.87	119.08
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	1.60	0.00	0.00	2.33	0.00	1.20	0.00	0.70	0.02	----	----	1.40	144.00	7.23	144.02	151.25
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	1.77	0.00	0.00	2.48	0.00	0.80	0.00	5.70	0.71	----	----	0.30	120.42	11.05	121.13	132.18
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	1.99	0.00	0.00	2.59	0.00	0.80	0.00	4.47	1.71	----	----	0.32	109.20	10.17	110.91	121.08
1978	2.04	0.00	0.00	2.83	0.00	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1980	2.15	0.00	0.00	2.63	0.00	0.84	0.00	9.28	2.63	----	----	0.30	118.00	15.20	120.63	135.83
1981	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	2.44	0.00	0.00	4.10	0.00	0.81	0.00	10.27	9.99	0.08	0.01	0.74	100.89	18.44	110.89	129.33
1986	2.58	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	2.47	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	2.60	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	2.55	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	2.33	0.00	0.00	3.87	0.00	1.38	0.00	22.13	3.38	0.00	0.00	0.37	107.99	30.08	111.37	141.45
1991	2.19	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	2.26	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	2.41	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	2.32	0.00	0.00	----	----	----	----	----	----	----	----	0.39	43.96	N/A	N/A	N/A
1995	2.31	0.00	0.00	4.30	0.00	1.67	0.00	19.31	2.55	0.34	0.00	0.29	50.28	28.22	52.83	81.05
1996	2.40	0.00	0.00	----	----	----	----	----	----	----	----	0.46	62.15	N/A	N/A	N/A
1997	2.79	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	2.87	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	2.78	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	2.46	0.00	0.00	3.22	0.00	1.50	0.00	14.00	1.70	0.39	0.00	0.30	89.53	21.87	91.23	113.10

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Jefferson County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	0.30	0.00	0.00	0.30	0.00	0.00	0.00	0.16	0.08	----	----	0.00	0.00	0.76	0.08	0.84
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	0.36	0.00	0.00	0.73	0.00	0.20	0.00	0.40	0.04	----	----	0.00	0.00	1.69	0.04	1.73
1971	0.38	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1972	0.43	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1973	0.39	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1974	0.43	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1975	0.44	0.00	0.00	0.42	0.00	0.02	0.00	1.51	0.14	----	----	0.00	0.00	2.39	0.14	2.53
1976	0.50	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1977	0.57	0.00	0.00	0.65	0.00	0.02	0.00	0.75	0.14	----	----	0.00	0.00	1.99	0.14	2.13
1978	0.48	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	0.51	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1980	0.49	0.00	0.00	0.89	0.00	0.05	0.00	0.98	0.14	----	----	0.00	0.00	2.41	0.14	2.55
1981	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	0.60	0.00	0.00	1.29	0.00	0.00	0.00	6.31	1.36	0.00	0.00	0.00	0.00	8.20	1.36	9.56
1986	0.67	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	0.63	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	0.68	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	0.70	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	0.72	0.00	0.00	1.04	0.00	0.08	0.00	8.34	1.81	0.11	0.00	0.00	0.00	10.29	1.81	12.10
1991	0.65	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	0.67	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	0.71	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	0.63	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	0.71	0.00	0.00	1.26	0.00	0.25	0.00	8.52	0.52	0.35	0.00	0.00	0.00	11.09	0.52	11.61
1996	0.74	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1997	0.67	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	0.69	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	0.66	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	0.72	0.00	0.00	0.84	0.00	0.20	0.00	6.43	0.10	0.20	0.07	0.00	0.00	8.39	0.17	8.56

Jefferson County is located within the Northwest Florida and Suwannee River Water Management Districts. The values shown represent the county totals as reported by the Districts.

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Lafayette County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	0.10	0.00	0.00	0.10	0.00	0.00	0.00	0.34	0.10	----	----	0.00	0.00	0.54	0.10	0.64
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	0.10	0.00	0.00	0.24	0.00	0.00	0.00	0.90	0.20	----	----	0.00	0.00	1.24	0.20	1.44
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	0.14	0.00	0.00	0.21	0.00	0.00	0.00	2.60	0.17	----	----	0.00	0.00	2.95	0.17	3.12
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	0.17	0.00	0.00	0.29	0.00	0.00	0.00	3.66	0.12	----	----	0.00	0.00	4.12	0.12	4.24
1978	0.12	0.00	0.00	0.35	0.00	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1980	0.12	0.00	0.00	0.34	0.00	0.00	0.00	1.82	0.29	----	----	0.00	0.00	2.28	0.29	2.57
1981	0.14	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	0.15	0.00	0.00	0.58	0.00	0.08	0.00	6.50	0.26	0.00	0.00	0.00	0.00	7.31	0.26	7.57
1986	0.16	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	0.16	0.00	0.00	0.70	0.00	0.10	0.00	----	----	----	----	----	----	N/A	N/A	N/A
1988	0.18	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	0.19	0.00	0.00	0.86	0.00	0.16	0.00	----	----	----	----	----	----	N/A	N/A	N/A
1990	0.18	0.00	0.00	0.70	0.00	0.14	0.00	8.08	0.54	0.00	0.00	0.00	0.00	9.10	0.54	9.64
1991	0.18	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	0.18	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	0.17	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	0.18	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	0.18	0.00	0.00	0.78	0.00	0.23	0.00	5.92	0.34	0.00	0.00	0.00	0.00	7.11	0.34	7.45
1996	0.17	0.00	0.00	0.80	0.00	0.21	0.00	----	----	----	----	----	----	N/A	N/A	N/A
1997	0.18	0.00	0.00	0.84	0.00	0.20	0.00	----	----	----	----	----	----	N/A	N/A	N/A
1998	0.20	0.00	0.00	0.94	0.00	0.19	0.00	----	----	----	----	----	----	N/A	N/A	N/A
1999	0.24	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	0.20	0.00	0.00	0.61	0.00	0.20	0.00	5.77	0.16	0.00	0.00	0.00	0.00	6.78	0.16	6.94

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Lake County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	8.00	0.00	0.00	1.72	0.00	19.30	0.00	14.08	12.32	----	----	0.00	0.00	43.10	12.32	55.42
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	10.00	0.00	0.00	3.25	0.00	19.40	0.00	13.40	7.70	----	----	0.00	0.00	46.05	7.70	53.75
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	9.85	0.00	0.00	4.20	0.00	20.65	0.00	38.54	19.27	----	----	0.00	0.00	73.24	19.27	92.51
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	9.94	0.00	0.00	5.89	0.00	20.65	0.00	107.20	35.89	----	----	0.00	0.00	143.68	35.89	179.57
1978	11.20	0.00	0.00	3.31	0.00	17.47	0.00	87.60	29.50	----	----	0.00	0.00	119.58	29.50	149.08
1979	10.80	0.00	0.00	3.11	0.00	13.22	0.00	85.60	28.80	----	----	0.00	0.00	112.73	28.80	141.53
1980	11.39	0.00	0.00	5.66	0.00	11.18	0.00	65.31	7.61	----	----	0.00	0.00	93.54	7.61	101.15
1981	12.31	0.00	0.00	5.92	0.00	20.30	0.00	99.65	21.73	----	----	0.00	0.00	138.18	21.73	159.91
1982	11.67	0.00	0.00	8.89	0.00	15.19	4.13	85.24	17.97	----	----	0.00	0.00	120.99	22.10	143.09
1983	11.94	0.00	0.00	8.70	0.00	15.65	3.40	83.82	17.85	----	----	0.00	0.00	120.11	21.25	141.36
1984	14.21	0.00	0.00	9.11	0.00	16.43	0.00	86.85	18.70	----	----	0.00	0.00	126.60	18.70	145.30
1985	15.34	0.00	0.00	8.52	0.00	12.24	3.41	28.78	4.89	----	----	0.00	0.00	64.88	8.30	73.18
1986	16.25	0.00	0.00	8.27	0.00	11.53	3.94	33.61	8.45	----	----	0.00	0.00	69.66	12.39	82.05
1987	17.66	0.00	0.00	8.76	0.00	11.68	0.00	51.66	12.74	----	----	0.00	0.00	89.76	12.74	102.50
1988	18.21	0.00	0.00	8.52	0.00	13.33	0.00	47.89	11.33	----	----	0.00	0.00	87.95	11.33	99.28
1989	20.77	0.00	0.00	9.47	0.00	12.29	0.00	53.47	13.52	----	----	0.00	0.00	96.00	13.52	109.52
1990	20.67	0.00	0.00	9.56	0.00	9.51	0.00	43.22	11.64	1.39	1.04	0.00	0.00	84.35	12.68	97.03
1991	19.19	0.00	0.00	8.64	0.00	8.66	0.64	59.22	15.46	1.57	1.10	0.00	0.00	97.28	17.20	114.48
1992	18.95	0.00	0.00	4.94	0.00	5.62	0.72	40.33	10.32	0.66	0.47	0.00	0.00	70.50	11.51	82.01
1993	21.78	0.00	0.00	5.70	0.00	4.40	1.14	40.78	9.78	1.35	1.10	0.00	0.00	74.01	12.02	86.03
1994	20.23	0.00	0.00	5.20	0.00	7.89	1.14	42.33	10.37	1.35	1.10	0.00	0.00	77.00	12.61	89.61
1995	26.46	0.00	0.00	2.71	0.00	10.23	1.14	34.97	5.80	1.06	0.74	0.00	0.00	75.43	7.68	83.11
1996	29.35	0.00	0.00	2.00	0.00	8.51	0.73	38.40	6.61	1.48	1.04	0.00	0.00	79.74	8.38	88.12
1997	30.50	0.00	0.00	1.85	0.00	8.81	0.73	36.20	6.10	1.38	0.99	0.00	0.00	78.74	7.82	86.56
1998	35.49	0.00	0.00	2.74	0.00	8.58	0.49	54.52	9.77	1.90	1.34	0.00	0.00	103.23	11.60	114.83
1999	36.50	0.00	0.00	2.93	0.00	10.38	0.21	28.76	5.11	1.14	0.80	0.00	0.00	79.71	6.12	85.83
2000	39.92	0.00	0.00	4.27	0.00	10.44	0.60	30.85	5.30	5.36	3.87	0.00	0.00	90.84	9.77	100.61

Lake County is located within the St. Johns River and the Southwest Florida Water Management Districts. The values shown represent the County totals as reported by the Districts.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1989.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - Published water-use data from the St. Johns River Water Management District and the Southwest Florida Water Management District.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004), St. Johns River Water Management District (2004), and the Southwest Florida Water Management District (2002).

Appendix 1. Freshwater withdrawals by category in Lee County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Treated	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	4.30	0.00	0.00	1.40	0.00	1.00	0.00	0.04	28.20	----	----	0.15	0.00	6.89	28.20	35.09
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	6.70	1.60	0.00	1.64	0.00	0.30	4.00	27.30	8.00	----	----	0.04	0.00	35.98	13.60	49.58
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	12.06	3.59	N/A	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1975	9.97	6.85	1.51	2.00	0.00	0.40	8.00	48.83	15.56	----	----	0.04	0.00	61.24	30.41	91.65
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	12.27	6.74	N/A	2.44	0.00	0.40	8.00	71.34	22.54	----	----	0.04	0.00	86.49	37.28	123.77
1978	13.48	3.28	5.40	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1980	24.53	5.20	9.72	6.14	0.00	4.09	0.00	39.41	7.18	----	----	0.68	0.00	74.85	12.38	87.23
1981	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	29.47	2.28	10.42	8.81	0.00	6.87	0.00	18.75	5.07	8.29	0.00	0.12	0.00	72.31	7.35	79.66
1986	28.88	2.27	9.48	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	30.96	2.57	10.37	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	34.52	3.08	11.57	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	37.02	3.08	13.59	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	38.88	3.25	20.44	8.14	0.00	7.73	2.75	48.49	13.74	19.56	18.51	0.25	0.00	123.05	38.25	161.30
1991	36.14	3.38	15.17	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	35.97	3.11	14.89	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	36.32	3.13	20.98	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	37.71	3.41	21.09	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	37.64	3.09	19.77	7.55	0.00	4.14	5.13	52.07	10.28	11.08	2.95	0.08	0.00	112.56	21.45	134.01
1996	40.73	3.11	21.80	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1997	41.23	3.03	21.47	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	43.90	3.20	23.12	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	46.26	2.95	23.20	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	49.09	3.28	24.37	8.86	0.00	8.76	7.19	42.51	18.00	11.36	11.30	0.22	0.00	120.80	39.77	160.57

Public supply treated includes water that does not meet public drinking water standards and is either treated through a desalination process or is diluted with fresher water to meet standards.

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted from under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Leon County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	9.00	0.00	0.00	1.60	0.00	0.00	0.00	0.17	0.40	----	----	0.00	0.00	10.77	0.40	11.17
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	12.12	0.00	0.00	3.04	0.00	0.00	0.00	0.04	0.01	----	----	0.00	0.00	15.20	0.01	15.21
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	15.83	0.00	0.00	3.21	0.00	0.06	0.00	0.48	0.27	----	----	1.18	0.00	20.76	0.27	21.03
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	17.03	0.00	0.00	4.30	0.00	1.22	0.00	0.46	0.30	----	----	1.85	0.00	24.86	0.30	25.16
1978	17.08	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1980	17.20	0.00	0.00	3.34	0.00	1.86	0.00	2.42	0.19	----	----	4.20	0.00	29.02	0.19	29.21
1981	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	22.06	0.00	0.00	4.42	0.00	0.33	0.00	1.25	2.17	2.11	0.00	4.27	0.00	34.44	2.17	36.61
1986	23.44	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	23.06	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	25.60	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	24.56	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	25.02	0.00	0.00	5.74	0.00	0.26	0.00	1.96	0.48	1.39	0.53	4.11	0.00	38.48	1.01	39.49
1991	24.26	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	26.88	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	28.50	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	26.24	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	28.74	0.00	0.00	4.79	0.00	0.23	0.00	0.87	0.21	1.28	0.54	2.64	0.00	38.55	0.75	39.30
1996	28.67	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1997	27.92	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	33.83	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	33.45	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	35.70	0.00	0.00	4.29	0.00	0.12	0.00	1.27	0.00	1.24	0.30	2.74	0.00	45.36	0.30	45.66

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Levy County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	0.40	0.00	0.00	0.33	0.00	0.02	0.00	1.32	0.07	----	----	0.01	42.00	2.08	42.07	44.15
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	0.90	0.00	0.00	0.65	0.00	0.00	0.00	0.40	0.00	----	----	0.00	0.00	1.95	0.00	1.95
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	0.98	0.00	0.00	0.85	0.00	0.00	0.00	1.80	0.13	----	----	0.00	0.00	3.63	0.13	3.76
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	1.05	0.00	0.00	0.86	0.00	0.00	0.00	2.30	0.54	----	----	0.00	0.00	4.21	0.54	4.75
1978	0.95	0.00	0.00	0.97	0.00	0.00	0.00	1.80	0.70	----	----	0.00	0.00	3.72	0.70	4.42
1979	1.00	0.00	0.00	1.09	0.00	0.00	0.00	1.59	1.05	----	----	0.00	0.00	3.68	1.05	4.73
1980	1.10	0.00	0.00	1.32	0.00	0.22	0.00	1.88	1.08	----	----	0.00	0.00	4.52	1.08	5.60
1981	1.19	0.00	0.00	1.36	0.00	0.18	0.00	1.80	1.32	----	----	0.00	0.00	4.53	1.32	5.85
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1985	1.19	0.00	0.00	2.17	0.00	0.41	2.28	10.37	2.17	0.00	0.00	0.00	0.00	14.14	4.45	18.59
1986	1.25	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	1.33	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	1.35	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	1.48	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	1.58	0.00	0.00	2.15	0.00	0.36	1.70	17.14	1.34	0.29	0.00	0.00	0.00	21.52	3.04	24.56
1991	1.88	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	1.59	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	1.76	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	1.69	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	1.85	0.00	0.00	3.66	0.00	0.07	2.00	15.19	0.49	0.16	0.00	0.00	0.00	20.93	2.49	23.42
1996	1.86	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1997	1.94	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	1.96	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	1.92	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	2.16	0.00	0.00	3.95	0.00	0.06	1.96	21.82	0.63	0.45	0.04	0.00	0.00	28.44	2.63	31.07

Levy County is located within the Southwest Florida and the Suwannee River Water Management Districts. The values shown represent the County totals as reported by the Districts.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data source; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Liberty County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	0.10	0.00	0.00	0.10	0.00	0.74	0.01	0.01	0.03	----	----	0.00	0.00	0.95	0.04	0.99
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	0.16	0.00	0.00	0.22	0.00	0.80	0.50	0.00	0.00	----	----	0.00	0.00	1.18	0.50	1.68
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	0.09	0.00	0.00	0.24	0.00	0.33	0.00	0.00	0.01	----	----	0.00	0.00	0.66	0.01	0.67
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	0.09	0.00	0.00	0.29	0.00	0.33	0.00	0.01	0.03	----	----	0.00	0.00	0.72	0.03	0.75
1978	0.09	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1980	0.13	0.00	0.00	0.27	0.00	0.33	0.00	0.00	0.03	----	----	0.00	0.00	0.73	0.03	0.76
1981	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	0.25	0.00	0.00	0.40	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00	0.00	1.09	0.00	1.09
1986	0.24	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	0.21	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	0.24	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	0.24	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	0.26	0.00	0.00	0.46	0.00	0.22	0.00	2.30	0.00	0.02	0.00	0.00	0.00	3.26	0.00	3.26
1991	0.27	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	0.28	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	0.26	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	0.27	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	0.32	0.00	0.00	0.50	0.00	0.38	0.00	0.34	0.07	0.02	0.00	0.00	0.00	1.56	0.07	1.63
1996	0.36	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1997	0.37	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	0.41	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	0.41	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	0.39	0.00	0.00	0.45	0.00	0.82	0.00	0.16	0.00	0.00	0.00	0.00	0.00	1.82	0.00	1.82

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Madison County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	0.70	0.00	0.00	0.40	0.00	0.00	0.00	0.16	0.52	----	----	0.00	0.00	1.26	0.52	1.78
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	0.60	0.00	0.00	0.85	0.00	0.00	0.00	1.60	0.10	----	----	0.00	0.00	3.05	0.10	3.15
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	1.09	0.00	0.00	0.75	0.00	0.03	0.00	1.93	0.21	----	----	0.00	0.00	3.80	0.21	4.01
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	1.09	0.00	0.00	0.83	0.00	0.03	0.00	3.38	0.40	----	----	0.00	0.00	5.33	0.40	5.73
1978	1.07	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1980	0.96	0.00	0.00	0.93	0.00	0.04	0.00	1.45	1.06	----	----	0.00	0.00	3.38	1.06	4.44
1981	0.99	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	1.18	0.00	0.00	1.90	0.00	0.46	0.00	2.46	0.00	0.00	0.00	0.00	0.00	6.00	0.00	6.00
1986	1.32	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	1.36	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	1.42	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	1.39	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	1.43	0.00	0.00	2.56	0.00	0.23	0.00	2.97	0.27	0.00	0.00	0.00	0.00	7.19	0.27	7.46
1991	1.37	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	1.87	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	1.55	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	1.54	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	1.58	0.00	0.00	1.54	0.00	0.11	0.00	5.44	0.55	0.11	0.00	0.00	0.00	8.78	0.55	9.33
1996	1.56	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1997	1.53	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	1.61	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	1.54	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	1.65	0.00	0.00	1.23	0.00	0.15	0.00	5.83	0.11	0.20	0.06	0.00	0.00	9.06	0.17	9.23

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Manatee County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	3.80	2.60	0.00	0.83	0.00	1.30	0.00	35.70	2.50	----	----	0.00	0.00	41.63	5.10	46.73
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	0.30	9.60	0.00	3.88	0.00	3.00	0.00	49.50	0.00	----	----	0.00	0.00	56.68	9.60	66.28
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	0.00	19.89	0.98	4.40	0.00	1.99	0.00	24.43	1.38	----	----	0.02	25.00	30.84	46.27	77.11
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	0.00	24.46	2.10	4.68	0.00	3.35	0.00	42.78	2.36	----	----	0.01	14.00	50.82	40.82	91.64
1978	0.00	24.30	6.30	4.37	0.00	5.20	0.00	47.80	5.34	----	----	0.05	2.60	57.42	32.24	89.66
1979	0.00	27.20	6.60	2.16	0.00	0.20	0.00	61.91	6.88	----	----	0.01	9.80	64.28	43.88	108.16
1980	0.00	28.07	7.17	2.41	0.00	0.20	0.00	67.59	0.96	----	----	0.25	3.60	70.45	32.63	103.08
1981	0.00	30.34	8.34	2.30	0.00	0.50	0.00	84.15	1.12	----	----	0.40	10.00	87.35	41.46	128.81
1982	0.00	32.91	9.46	2.38	0.00	4.45	0.00	73.16	0.74	----	----	0.59	6.99	80.58	40.64	121.22
1983	0.00	31.05	9.61	3.78	0.00	4.34	0.00	66.81	0.67	----	----	0.66	4.00	75.59	35.72	111.31
1984	0.00	33.04	10.00	2.94	0.00	3.62	0.00	101.50	1.03	----	----	0.69	1.53	108.75	35.60	144.35
1985	0.00	30.89	9.40	0.43	0.00	3.30	0.00	87.79	0.34	1.22	0.57	0.44	2.51	93.18	34.31	127.49
1986	0.00	32.77	10.20	0.28	0.00	4.75	0.00	84.69	0.86	----	----	0.57	10.60	90.29	44.23	134.52
1987	0.00	35.28	10.29	0.45	0.00	2.16	0.00	73.89	0.89	----	----	0.55	12.41	77.05	48.58	125.63
1988	0.00	38.44	11.67	1.04	0.00	3.27	0.00	89.48	0.90	----	----	0.58	6.58	94.37	45.92	140.29
1989	0.00	37.58	11.35	4.92	0.00	2.41	0.00	95.12	1.77	----	----	0.15	10.95	102.60	50.30	152.90
1990	0.09	40.30	12.55	0.08	0.00	2.58	0.00	92.25	1.50	1.53	0.24	0.00	3.27	96.53	45.31	141.84
1991	0.00	54.79	12.41	0.08	0.00	5.22	2.77	59.85	14.00	1.53	1.89	0.00	1.53	66.68	74.98	141.66
1992	0.93	48.28	11.69	0.20	0.00	3.48	2.99	86.10	7.22	1.63	1.33	0.00	1.52	92.34	61.34	153.68
1993	3.74	39.88	10.44	3.29	0.00	0.25	0.78	67.87	1.00	1.32	0.98	0.27	0.11	76.74	42.75	119.49
1994	12.11	32.87	11.37	3.09	0.00	0.16	0.14	72.15	0.79	1.18	1.02	0.43	0.00	89.12	34.82	123.94
1995	12.22	29.88	9.00	3.00	0.00	0.57	0.26	73.67	0.94	1.24	0.94	0.00	0.01	90.70	32.03	122.73
1996	13.90	29.85	9.35	2.48	0.00	0.39	0.27	79.62	0.83	2.10	1.20	0.30	0.19	98.79	32.34	131.13
1997	12.84	29.82	9.22	2.30	0.00	0.33	0.57	75.04	0.98	1.84	0.65	0.20	0.20	92.55	32.22	124.77
1998	18.97	24.40	9.23	0.08	0.00	2.15	0.48	78.63	1.58	2.42	0.77	0.31	0.26	102.56	27.49	130.05
1999	13.10	29.40	9.72	0.19	0.00	5.00	0.81	91.00	1.15	2.53	0.94	0.00	0.00	111.82	32.30	144.12
2000	13.87	36.05	9.71	0.17	0.00	0.47	0.53	104.37	1.35	3.42	1.62	0.00	25.10	122.30	64.65	186.95

Public supply transfers represent water withdrawn in Manatee County and exported for use in Sarasota County.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965-1984 and 1986-1989.

Data source; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee, and published data from the Southwest Florida Water Management District, Brooksville.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004) and Southwest Florida Water Management District (2002).

Appendix 1. Freshwater withdrawals by category in Marion County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	3.80	0.00	0.00	2.20	0.00	4.50	0.00	7.60	1.60	----	----	0.00	0.00	18.10	1.60	19.70
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	3.90	0.00	0.00	4.87	0.00	2.10	0.00	5.70	1.10	----	----	0.00	0.00	16.57	1.10	17.67
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	6.23	0.00	0.00	6.58	0.00	0.30	0.00	18.07	0.85	----	----	0.00	0.00	31.18	0.85	32.03
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	6.08	0.00	0.00	7.47	0.00	0.31	0.00	19.38	0.92	----	----	0.00	0.00	33.24	0.92	34.16
1978	5.90	0.00	0.00	5.87	0.00	0.90	0.00	25.10	1.30	----	----	0.00	0.00	37.77	1.30	39.07
1979	5.90	0.00	0.00	6.82	0.00	0.30	0.00	16.34	1.60	----	----	0.00	0.00	29.36	1.60	30.96
1980	6.78	0.00	0.00	7.33	0.00	1.57	0.00	20.19	1.06	----	----	0.00	0.00	35.87	1.06	36.93
1981	7.40	0.00	0.00	8.00	0.00	0.91	0.00	26.47	0.98	----	----	0.00	0.00	42.78	0.98	43.76
1982	9.37	0.00	0.00	8.66	0.00	0.20	0.00	21.81	2.95	----	----	0.00	0.00	40.04	2.95	42.99
1983	9.83	0.00	0.00	9.62	0.00	0.18	0.00	22.43	2.88	----	----	0.00	0.00	42.06	2.88	44.94
1984	10.79	0.00	0.00	12.59	0.00	0.22	0.00	29.57	3.31	----	----	0.00	0.00	53.17	3.31	56.48
1985	11.89	0.00	0.00	15.26	0.00	0.93	1.93	19.01	0.96	2.05	1.00	0.00	0.00	49.14	3.89	53.03
1986	12.92	0.00	0.00	13.75	0.00	0.73	1.93	21.53	2.78	----	----	0.00	0.00	48.93	4.71	53.64
1987	13.21	0.00	0.00	14.72	0.00	0.88	0.00	14.42	1.88	----	----	0.00	0.00	43.23	1.88	45.11
1988	14.62	0.00	0.00	15.00	0.00	1.06	0.00	9.92	1.85	----	----	0.00	0.00	40.60	1.85	42.45
1989	15.48	0.00	0.00	17.03	0.00	1.02	0.00	14.05	1.76	----	----	0.00	0.00	47.58	1.76	49.34
1990	16.47	0.00	0.00	16.93	0.00	1.07	0.00	12.86	1.14	1.87	0.73	0.00	0.00	49.20	1.87	51.07
1991	16.46	0.00	0.00	16.17	0.00	1.61	0.00	8.64	1.37	1.82	1.61	0.00	0.00	44.70	2.98	47.68
1992	20.30	0.00	0.00	18.96	0.00	1.75	0.00	10.50	0.95	1.32	1.21	0.00	0.00	52.83	2.16	54.99
1993	17.77	0.11	0.00	16.83	0.00	1.70	0.00	7.49	0.63	3.37	0.70	0.00	0.00	47.16	1.44	48.60
1994	16.31	0.10	0.00	18.66	0.00	3.72	0.00	7.62	0.64	2.90	0.61	0.00	0.00	49.21	1.35	50.56
1995	20.13	0.14	0.00	20.33	0.00	1.91	0.00	6.20	0.44	2.46	0.46	0.00	0.00	51.03	1.04	52.07
1996	21.48	0.08	0.00	21.86	0.00	1.85	0.00	7.41	0.55	3.17	0.61	0.00	0.00	55.77	1.24	57.01
1997	23.14	0.00	0.00	21.39	0.00	1.82	0.00	8.34	0.59	3.51	0.68	0.00	0.00	58.20	1.27	59.47
1998	24.87	0.03	0.00	23.30	0.00	1.18	0.00	9.85	0.84	3.67	0.70	0.00	0.00	62.87	1.57	64.44
1999	25.85	0.00	0.00	25.24	0.00	1.51	0.00	6.80	0.50	3.57	0.50	0.00	0.00	62.97	1.00	63.97
2000	27.99	0.00	0.00	16.42	0.00	2.08	0.00	16.31	0.90	4.88	1.20	0.00	0.00	67.68	2.10	69.78

Marion County is located within the St. Johns River and the Southwest Florida Water Management Districts. The values shown represent the County totals as reported by the Districts.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965-1984 and 1986-1989.

Data source; 1965 - 1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991 - 1994, 1996-1999 - Published water-use data from the St. Johns River Water Management District and the Southwest Florida Water Management District.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004), St. Johns River Water Management District (2004), and the Southwest Florida Water Management District (2002).

Appendix 1. Freshwater withdrawals by category in Martin County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee; all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Treated	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	1.90	0.00	0.00	1.10	0.00	0.50	0.00	11.10	44.53	----	----	0.00	0.00	14.60	44.53	59.13
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	1.60	0.00	0.00	1.92	0.00	0.50	0.00	15.40	74.90	----	----	0.00	0.00	19.42	74.90	94.32
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	5.72	0.00	0.00	2.40	0.00	0.08	0.00	7.29	76.76	----	----	0.00	0.00	15.49	76.76	92.25
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	5.51	0.00	----	2.66	0.00	0.10	0.00	8.77	81.36	----	----	0.00	0.00	17.04	81.36	98.40
1978	5.40	0.00	----	0.00	0.00	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1980	6.15	0.00	0.00	5.96	0.00	0.12	0.00	32.34	107.01	----	----	0.00	40.30	44.57	147.31	191.88
1981	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	9.33	0.00	0.30	7.50	0.00	0.17	0.00	27.47	117.10	1.33	1.33	0.49	24.50	46.29	142.93	189.22
1986	9.26	0.00	0.21	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	10.11	0.00	0.22	7.20	0.00	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	11.20	0.00	0.27	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	12.99	0.00	0.25	6.99	0.00	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	13.66	0.00	0.31	8.63	0.00	0.77	28.77	36.77	101.36	5.35	4.21	0.53	19.56	65.71	153.90	219.61
1991	12.68	0.00	0.31	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	13.18	0.00	0.27	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	12.90	0.00	0.33	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	12.24	0.00	0.43	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	14.00	0.00	1.22	7.62	0.00	1.66	0.00	26.36	100.98	0.00	0.00	0.16	19.25	49.80	120.23	170.03
1996	15.18	0.00	2.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1997	14.22	0.00	1.56	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	15.86	0.00	3.21	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	15.75	0.00	3.73	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	18.45	0.00	2.82	4.20	0.00	1.20	1.95	15.02	125.00	4.19	3.69	0.54	24.63	43.60	155.27	198.87

Public supply treated includes water that does not meet public drinking water standards and is either treated through a desalination process or is diluted with fresher water to meet standards.

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Miami-Dade County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	202.30	0.00	5.90	9.60	0.00	5.00	2.70	67.90	0.00	----	----	0.30	0.00	285.10	2.70	287.80
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	212.10	0.00	5.20	9.13	0.00	7.70	2.70	44.80	0.00	----	----	0.04	0.00	273.77	2.70	276.47
1971	----	----	5.66	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	5.81	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	6.02	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	5.66	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	270.51	0.00	5.96	9.50	0.00	3.38	0.00	87.66	2.90	----	----	0.04	0.00	371.09	2.90	373.99
1976	----	----	5.79	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	280.15	0.00	5.96	3.98	0.00	6.73	0.00	101.06	2.96	----	----	0.00	0.00	391.92	2.96	394.88
1978	268.11	0.00	6.44	19.22	0.00	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1980	314.29	0.00	8.61	18.38	0.00	19.73	0.00	86.98	2.76	----	----	0.00	0.00	439.38	2.76	442.14
1981	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	339.77	0.00	11.34	13.32	0.00	15.78	0.00	103.68	0.00	13.50	4.50	0.00	0.00	486.05	4.50	490.55
1986	345.41	0.00	12.72	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	365.24	0.00	13.14	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	365.62	0.00	13.17	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	367.00	0.00	13.37	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	337.69	0.00	12.07	10.75	0.00	40.34	0.00	115.01	7.14	20.55	7.23	2.26	0.00	526.60	14.37	540.97
1991	352.06	0.00	11.77	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	378.57	0.00	12.96	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	388.16	0.00	14.15	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	388.72	0.00	14.05	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	386.60	0.00	14.07	12.71	0.00	38.82	4.56	95.95	11.72	14.24	2.55	2.10	0.00	550.42	18.83	569.25
1996	389.16	0.00	14.39	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1997	386.40	0.00	14.68	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	390.33	0.00	15.42	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	389.41	0.00	16.31	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	394.29	0.00	17.02	4.85	0.00	41.65	0.00	86.55	23.80	8.51	4.88	2.08	0.00	537.93	28.68	566.61

Public supply transfers represent water withdrawn in Miami-Dade County and exported for use in Monroe County.

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural self-supplied includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) purposes. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Monroe County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	0.00	0.00	5.90	0.00	0.00	0.00	0.00	0.00	0.00	----	----	0.20	0.00	0.20	0.00	0.20
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	1.58	0.00	5.20	0.00	0.00	0.00	0.00	0.00	0.00	----	----	0.00	0.00	1.58	0.00	1.58
1971	0.98	0.00	5.66	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	1.16	0.00	5.81	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	1.60	0.00	6.02	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	1.57	0.00	5.66	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	1.71	0.00	5.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	1.81	0.00	1.81
1976	1.25	0.00	5.79	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	1.27	0.00	5.96	0.02	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.10	0.00	1.43	0.00	1.43
1978	1.96	0.00	6.44	0.00	0.00	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1980	2.46	0.00	8.61	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	2.95	0.00	2.95
1981	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	0.00	0.00	11.34	0.00	0.00	0.00	0.00	0.00	0.00	1.60	0.00	0.00	0.00	1.60	0.00	1.60
1986	0.00	0.00	12.72	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	0.00	0.00	13.14	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	0.00	0.00	13.17	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	0.00	0.00	13.37	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	0.00	0.00	12.07	0.00	0.00	0.07	0.00	0.00	0.00	1.22	0.00	0.00	0.00	1.29	0.00	1.29
1991	0.00	0.00	11.77	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	0.00	0.00	12.96	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	0.00	0.00	14.15	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	0.00	0.00	14.05	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	0.00	0.00	14.07	0.51	0.00	0.07	0.00	0.04	0.00	1.16	0.00	0.00	0.00	1.78	0.00	1.78
1996	0.00	0.00	14.39	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1997	0.00	0.00	14.68	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	0.00	0.00	15.42	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	0.00	0.00	16.31	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	0.00	0.00	17.02	0.08	0.00	0.10	0.00	0.03	0.00	1.23	0.62	0.00	0.00	1.44	0.62	2.06

Public supply transfers represent water withdrawn in Miami-Dade County and imported for use in Monroe County.

Agricultural self-supplied includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) purposes. This category was accounted for under Agricultural from 1965 through 1974.

Ground water withdrawn for public supply and recreational irrigation in Monroe County may be saline water and is usually treated through a desalinations process for use.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Nassau County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	1.20	0.00	0.00	0.50	0.00	37.80	0.00	0.81	0.09	----	----	0.00	0.00	40.31	0.09	40.40
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	2.00	0.00	0.00	1.40	0.00	50.00	0.00	0.00	0.00	----	----	0.00	0.00	53.40	0.00	53.40
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	2.40	0.00	0.00	1.83	0.00	57.93	0.00	0.93	0.00	----	----	0.00	0.00	63.09	0.00	63.09
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	3.07	0.00	0.00	2.36	0.00	58.11	0.00	1.61	1.44	----	----	0.00	0.00	65.15	1.44	66.59
1978	2.54	0.00	0.00	2.58	0.00	58.89	0.00	1.58	1.43	----	----	0.00	0.00	65.59	1.43	67.02
1979	2.32	0.00	0.00	4.09	0.00	55.41	0.00	1.42	0.86	----	----	0.00	0.00	63.24	0.86	64.10
1980	2.58	0.00	0.00	4.55	0.00	44.97	0.00	1.59	0.86	----	----	0.00	0.00	53.69	0.86	54.55
1981	2.90	0.00	0.00	5.19	0.00	41.41	0.00	1.59	0.86	----	----	0.00	0.00	51.09	0.86	51.95
1982	3.29	0.00	0.00	5.72	0.00	41.90	0.00	1.60	0.86	----	----	0.00	0.00	52.51	0.86	53.37
1983	2.76	0.00	0.00	3.81	0.00	32.01	0.00	1.47	0.89	----	----	0.00	0.00	40.05	0.89	40.94
1984	2.89	0.00	0.00	3.75	0.00	36.00	0.00	1.30	0.87	----	----	0.00	0.00	43.94	0.87	44.81
1985	3.04	0.00	0.00	3.97	0.00	37.40	0.00	1.01	0.83	0.72	0.10	0.00	0.00	46.14	0.93	47.07
1986	3.12	0.00	0.00	3.95	0.00	38.42	0.00	0.98	0.80	1.19	0.17	0.00	0.00	47.66	0.97	48.63
1987	3.54	0.00	0.00	3.98	0.00	33.93	0.00	1.07	0.80	1.12	0.16	0.00	0.00	43.64	0.96	44.60
1988	3.58	0.00	0.00	4.08	0.00	33.25	0.00	1.06	0.80	0.94	0.13	0.00	0.00	42.91	0.93	43.84
1989	3.59	0.00	0.00	4.11	0.00	31.64	0.00	0.60	0.33	1.06	0.16	0.00	0.00	41.00	0.49	41.49
1990	3.85	0.00	0.00	3.83	0.00	32.69	0.00	0.65	0.27	1.75	0.33	0.00	0.00	42.77	0.60	43.37
1991	4.04	0.00	0.00	3.96	0.00	32.71	0.00	0.81	0.00	1.53	0.23	0.00	0.00	43.05	0.23	43.28
1992	4.02	0.00	0.00	3.85	0.00	36.65	0.00	0.81	0.00	0.40	0.06	0.00	0.00	45.73	0.06	45.79
1993	4.43	0.00	0.00	4.39	0.00	38.10	0.00	0.25	0.00	1.39	0.20	0.00	0.00	48.56	0.20	48.76
1994	4.53	0.00	0.00	4.51	0.00	34.55	0.00	0.25	0.00	1.36	0.21	0.00	0.00	45.20	0.21	45.41
1995	4.96	0.00	0.00	4.23	0.00	34.49	0.00	0.15	0.00	0.71	0.11	0.00	0.00	44.54	0.11	44.65
1996	5.01	0.00	0.00	4.58	0.00	35.73	0.00	0.18	0.00	1.29	0.19	0.00	0.00	46.79	0.19	46.98
1997	5.06	0.00	0.00	4.96	0.00	35.23	0.00	0.18	0.00	1.39	0.21	0.00	0.00	46.82	0.21	47.03
1998	5.98	0.00	0.00	5.41	0.00	35.03	0.00	0.19	0.00	1.38	0.21	0.00	0.00	47.99	0.21	48.20
1999	6.86	0.00	0.00	6.58	0.00	30.56	0.00	0.14	0.00	1.10	0.16	0.00	0.00	45.24	0.16	45.40
2000	6.81	0.00	0.00	3.48	0.00	32.46	0.00	0.68	0.02	3.10	0.46	0.00	0.00	46.53	0.48	47.01

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - Published water-use data from the St. Johns River Water Management District, Palatka.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004) and St. Johns River Water Management District (2004).

Appendix 1. Freshwater withdrawals by category in Okaloosa County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	7.50	0.00	0.00	2.00	0.00	1.40	0.00	0.16	0.16	----	----	0.00	0.00	11.06	0.16	11.22
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	7.90	0.00	0.00	3.00	0.00	4.70	0.00	0.00	0.00	----	----	0.00	0.00	15.60	0.00	15.60
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	9.31	0.00	0.00	2.21	0.00	6.05	0.00	0.45	0.45	----	----	0.00	0.00	18.02	0.45	18.47
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	12.79	0.00	----	3.15	0.00	5.45	0.00	0.34	0.57	----	----	0.00	0.00	21.73	0.57	22.30
1978	13.13	0.00	----	4.95	0.00	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1980	12.97	0.00	0.00	3.76	0.00	4.62	0.00	0.17	0.16	----	----	0.00	0.00	21.52	0.16	21.68
1981	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	17.36	0.00	0.00	2.19	0.00	5.82	0.00	0.92	0.00	1.38	0.00	0.00	0.00	27.67	0.00	27.67
1986	17.65	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	18.53	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	19.27	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	19.74	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	20.92	0.00	0.00	2.83	0.00	5.98	0.00	0.24	0.00	1.62	0.00	0.00	0.00	31.59	0.00	31.59
1991	19.33	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	19.85	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	20.86	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	20.22	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	21.20	0.00	0.00	1.85	0.00	4.84	0.00	0.96	0.23	0.86	0.00	0.00	0.00	29.71	0.23	29.94
1996	21.98	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1997	21.74	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	21.80	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	22.23	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	22.97	0.00	0.00	1.27	0.00	4.14	0.00	0.75	0.00	3.02	0.46	0.00	0.00	32.15	0.46	32.61

The estimation procedure for domestic self-supplied withdrawals changed for 2000 as a different per capita was used to calculate withdrawals compared to previous years.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Okeechobee County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	0.00	0.90	0.00	0.30	0.00	0.00	0.00	32.60	5.60	----	----	0.00	0.00	32.90	6.50	39.40
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	0.00	0.61	0.00	0.24	0.00	0.00	0.00	28.90	5.90	----	----	0.00	0.00	29.14	6.51	35.65
1971	0.00	0.72	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1972	0.00	0.66	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1973	0.00	0.98	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1974	0.00	1.06	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1975	0.00	1.04	0.00	0.90	0.00	0.00	0.00	67.95	17.02	----	----	0.00	0.00	68.85	18.06	86.91
1976	0.00	1.11	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1977	0.00	1.33	0.00	1.44	0.00	0.00	0.00	77.87	19.89	----	----	0.00	0.00	79.31	21.22	100.53
1978	0.00	1.45	0.00	1.62	0.00	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	0.00	1.49	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1980	0.00	1.50	0.00	1.64	0.00	0.18	0.00	74.81	13.32	----	----	0.00	0.00	76.63	14.82	91.45
1981	0.00	1.55	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1982	0.00	1.57	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1983	0.00	1.65	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1984	0.00	1.74	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1985	0.00	1.93	0.00	1.58	0.00	0.12	0.00	22.63	3.23	0.11	0.11	0.00	0.00	24.44	5.27	29.71
1986	0.00	2.19	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	0.00	2.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	0.00	2.02	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	0.00	2.14	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	0.00	2.09	0.00	1.56	0.00	0.15	0.00	37.19	2.77	0.00	0.50	0.00	0.00	38.90	5.36	44.26
1991	0.00	2.15	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	0.00	2.08	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	0.00	2.18	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	0.07	1.82	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	0.75	1.20	0.00	1.11	0.00	0.13	0.00	32.64	4.27	1.12	0.00	0.00	0.00	35.75	5.47	41.22
1996	0.72	1.25	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1997	0.73	1.26	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	0.57	1.25	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	0.58	1.25	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	0.54	1.69	0.00	1.52	0.00	0.36	0.00	57.29	9.75	0.09	0.59	0.00	0.00	59.80	12.03	71.83

Okeechobee County is located within the St Johns River and South Florida Water Management Districts. The values shown represent the County totals as reported by the Districts.

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Orange County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	62.93	0.00	13.93	4.00	0.00	6.00	0.00	8.90	8.70	----	----	0.00	95.00	81.83	103.70	185.53
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	65.80	0.00	15.30	7.60	0.00	7.00	0.00	11.20	8.90	----	----	0.00	128.00	91.60	136.90	228.50
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	77.80	0.00	14.40	8.55	0.00	14.18	0.60	13.18	19.84	----	----	0.08	77.40	113.79	97.84	211.63
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	83.30	0.00	14.72	8.62	0.00	14.18	0.60	50.43	11.79	----	----	0.08	65.60	156.61	77.99	234.60
1978	84.13	0.00	14.97	0.00	0.00	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	93.80	0.00	17.51	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1980	87.14	0.00	17.73	10.70	0.00	14.23	1.01	60.26	7.25	----	----	0.00	22.60	172.33	30.86	203.19
1981	88.45	0.00	17.03	----	----	----	----	----	----	----	----	----	----	----	----	----
1982	94.40	0.00	16.44	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	98.23	0.00	16.70	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	112.72	0.00	20.34	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	122.60	0.00	22.10	6.07	0.00	15.23	1.02	43.14	51.87	4.78	1.03	0.00	0.00	191.82	53.92	245.74
1986	132.11	0.00	22.47	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	139.74	0.00	23.49	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	139.81	0.00	25.02	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	153.65	0.00	24.85	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	161.29	0.00	23.52	5.01	0.00	18.88	0.00	22.69	60.97	2.67	0.50	0.33	0.00	210.87	61.47	272.34
1991	148.10	0.00	22.46	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	153.11	0.00	24.92	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	154.59	0.00	25.06	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	155.01	0.00	23.54	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	165.02	0.00	23.97	12.95	0.00	19.67	0.00	22.09	28.54	8.42	2.46	0.41	0.00	228.56	31.00	259.56
1996	172.06	0.00	25.34	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1997	168.86	0.00	24.61	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	190.67	0.00	25.73	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	198.60	0.00	24.50	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	211.76	0.00	25.61	8.82	0.00	24.21	0.00	19.67	7.32	16.14	9.40	0.76	0.00	281.36	16.72	298.08

Orange County is located within the St Johns River and South Florida Water Management Districts. The values shown represent the County totals as reported by the Districts.

Public supply transfers represent water withdrawn in Orange County and exported for use in Brevard County.

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural self-supplied includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) purposes. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Osceola County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	3.30	0.00	0.00	0.45	0.00	0.00	0.00	9.40	6.80	----	----	0.20	0.00	13.35	6.80	20.15
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	2.70	0.00	0.00	2.01	0.00	0.10	0.00	8.00	5.40	----	----	0.10	0.00	12.91	5.40	18.31
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	3.65	0.00	0.00	1.80	0.00	0.70	0.00	8.89	4.17	----	----	0.50	0.00	15.54	4.17	19.71
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	3.96	0.00	----	3.97	0.00	0.70	0.00	3.30	2.21	----	----	1.00	0.00	12.93	2.21	15.14
1978	4.19	0.00	----	2.41	0.00	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1980	4.86	0.00	0.00	3.71	0.00	0.70	0.00	18.01	4.06	----	----	1.00	0.00	28.28	4.06	32.34
1981	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	7.03	0.00	0.00	3.42	0.00	3.20	0.00	40.04	5.58	0.00	0.00	0.00	0.00	53.69	5.58	59.27
1986	8.30	0.00	0.00	5.73	0.00	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	9.48	0.00	0.00	5.82	0.00	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	9.25	0.00	0.00	5.68	0.00	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	10.98	0.00	0.00	5.50	0.00	2.22	0.00	----	----	----	----	----	----	N/A	N/A	N/A
1990	12.20	0.00	0.00	4.31	0.00	2.21	0.00	44.42	12.04	0.30	1.36	0.00	0.00	63.44	13.40	76.84
1991	14.50	0.00	0.00	5.09	0.00	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	16.80	0.00	0.00	5.95	0.00	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	18.31	0.00	0.00	6.28	0.00	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	17.63	0.00	0.00	6.21	0.00	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	19.15	0.00	0.00	6.77	0.00	0.73	0.00	40.53	12.80	1.05	0.41	0.04	0.00	68.27	13.21	81.48
1996	20.38	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1997	21.58	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	23.02	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	25.88	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	30.00	0.00	0.00	4.61	0.00	0.84	0.00	80.47	25.49	1.57	0.54	0.03	0.00	117.52	26.03	143.55

Osceola County is located within the St Johns River and South Florida Water Management Districts. The values shown represent the County totals as reported by the Districts.

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Palm Beach County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee; all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Treated	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	22.80	15.90	0.00	6.90	0.00	2.70	3.00	29.20	333.40	----	----	0.60	0.00	62.20	352.30	414.50
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	34.90	20.40	0.00	10.68	0.00	1.80	26.60	123.20	286.60	----	----	0.20	0.00	170.78	333.60	504.38
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	62.73	26.11	0.00	12.88	0.45	1.79	44.75	35.96	469.41	----	----	0.18	0.00	113.54	540.72	654.26
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	66.07	30.24	----	13.36	0.45	2.18	45.43	39.13	472.45	----	----	0.18	0.00	120.92	548.57	669.49
1978	76.22	26.73	----	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	88.34	27.95	----	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1980	94.01	29.48	0.00	10.74	0.00	1.75	0.92	55.82	559.48	----	----	0.19	0.00	162.51	589.88	752.39
1981	93.28	28.15	----	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1982	91.90	26.64	----	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	117.38	29.16	0.00	5.56	0.00	2.22	0.54	28.76	493.22	0.00	31.36	0.00	0.00	153.92	554.28	708.20
1986	119.66	29.37	----	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	136.34	32.29	----	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	140.32	31.21	----	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	156.12	32.68	----	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	135.09	29.90	0.31	21.34	0.00	1.99	30.18	13.22	705.46	28.94	31.06	0.00	0.00	200.58	796.60	997.18
1991	145.12	30.75	1.75	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	150.46	31.81	3.19	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	154.65	30.20	2.78	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	150.36	29.21	5.35	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	153.86	33.02	6.75	17.19	0.00	1.95	21.00	15.88	655.56	30.15	31.23	0.00	0.00	219.03	740.81	959.84
1996	162.85	31.59	7.66	18.27	0.00	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1997	162.94	32.30	8.79	18.41	0.00	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	177.83	35.96	11.78	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	180.87	34.98	16.14	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	194.57	35.27	18.27	10.17	0.00	5.76	13.21	42.07	904.09	21.18	52.91	0.00	0.00	273.75	1,005.48	1,279.23

Public supply treated includes water that does not meet public drinking water standards and is either treated through a desalination process or is diluted with fresher water to meet standards. The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Pasco County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	2.10	0.00	0.00	0.83	0.00	16.40	0.00	12.55	3.06	----	----	0.00	0.00	31.88	3.06	34.94
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	2.00	0.00	0.00	6.20	0.00	30.00	0.00	9.60	0.00	----	----	0.00	0.00	47.80	0.00	47.80
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	18.66	0.00	15.70	10.39	0.00	25.01	0.00	39.96	10.43	----	----	0.00	0.00	94.02	10.43	104.45
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	21.67	0.00	18.10	11.55	0.00	13.19	0.00	31.09	7.31	----	----	0.00	0.00	77.50	7.31	84.81
1978	40.60	0.00	36.20	11.28	0.00	14.50	0.00	27.78	0.00	----	----	0.00	0.00	94.16	0.00	94.16
1979	57.44	0.00	36.54	3.89	0.00	13.00	0.00	22.49	0.00	----	----	0.00	0.00	96.82	0.00	96.82
1980	54.65	0.00	42.75	5.74	0.00	15.80	0.00	21.26	0.78	----	----	0.00	0.00	97.45	0.78	98.23
1981	61.04	0.00	48.54	6.27	0.00	7.72	0.38	24.61	1.25	----	----	0.00	0.00	99.64	1.63	101.27
1982	64.73	0.00	46.30	5.72	0.00	23.72	0.00	17.22	0.70	----	----	0.00	0.00	111.39	0.70	112.09
1983	58.82	0.00	41.54	5.88	0.00	27.87	0.00	16.15	0.66	----	----	0.00	0.00	108.72	0.66	109.38
1984	63.40	0.00	44.97	6.80	0.00	30.28	0.00	23.94	0.92	----	----	0.00	0.00	124.42	0.92	125.34
1985	63.87	0.00	44.10	8.25	0.00	19.91	0.00	20.63	0.87	1.79	0.00	0.00	0.00	114.45	0.87	115.32
1986	68.93	0.00	47.86	5.51	0.00	20.03	0.00	20.75	0.82	----	----	0.00	0.00	115.22	0.82	116.04
1987	83.87	0.00	62.11	4.80	0.00	27.40	0.00	11.61	0.85	----	----	0.00	0.00	127.68	0.85	128.53
1988	83.92	0.00	59.25	6.55	0.00	32.51	0.00	21.31	1.80	----	----	0.00	0.00	144.29	1.80	146.09
1989	87.36	0.00	62.86	10.11	0.00	38.12	0.00	14.60	2.10	----	----	0.00	0.00	150.19	2.10	152.29
1990	90.65	0.00	65.26	10.19	0.00	18.68	0.07	15.10	1.66	1.30	0.65	0.00	0.00	135.92	2.38	138.30
1991	93.84	0.00	58.91	0.13	0.00	13.01	39.26	25.78	4.60	2.13	2.14	0.00	0.00	134.89	46.00	180.89
1992	102.26	0.00	68.61	2.89	0.00	12.26	38.54	24.06	4.03	2.46	1.49	0.00	0.00	143.93	44.06	187.99
1993	97.06	0.00	58.93	10.76	0.00	11.67	8.46	18.16	0.69	3.47	0.47	0.17	0.00	141.29	9.62	150.91
1994	94.44	0.00	62.07	7.99	0.00	14.94	10.91	15.88	0.37	4.10	0.56	0.61	0.00	137.96	11.84	149.80
1995	93.93	0.00	67.79	8.81	0.00	9.38	11.56	14.49	0.20	2.56	0.43	0.23	0.00	129.40	12.19	141.59
1996	98.53	0.00	66.34	9.72	0.00	8.59	11.53	14.06	0.38	2.98	0.67	0.20	0.00	134.08	12.58	146.66
1997	97.29	0.00	61.51	11.30	0.00	8.47	8.71	13.87	0.37	3.73	0.84	0.21	0.00	134.87	9.92	144.79
1998	93.20	0.00	57.82	4.39	0.00	8.29	4.02	15.23	0.48	3.13	0.85	0.16	0.00	124.40	5.35	129.75
1999	97.94	0.00	60.70	3.47	0.00	7.36	1.65	15.57	0.54	4.71	1.11	0.14	0.00	129.19	3.30	132.49
2000	102.67	0.00	67.44	4.50	0.00	4.72	0.81	22.37	0.36	5.29	1.07	0.14	0.00	139.69	2.24	141.93

Public supply transfers represent water withdrawn in Pasco County and exported for use in Pinellas County.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965-1984 and 1986-1989.

Data source; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee, and published data from the Southwest Florida Water Management District, Brooksville.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004) and Southwest Florida Water Management District (2002).

Appendix 1. Freshwater withdrawals by category in Pinellas County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	32.60	0.00	13.20	0.10	0.00	1.00	0.00	12.54	0.24	----	----	0.10	0.00	46.34	0.24	46.58
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	32.00	0.00	28.00	13.12	0.00	2.00	0.00	4.00	0.04	----	----	0.00	0.00	51.12	0.04	51.16
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	36.93	0.00	39.97	6.46	0.00	1.30	0.00	34.27	0.02	----	----	0.00	0.00	78.96	0.02	78.98
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	42.62	0.00	46.06	2.91	0.00	1.28	0.00	28.62	0.00	----	----	0.00	0.00	75.43	0.00	75.43
1978	39.20	0.00	58.60	0.73	0.00	1.00	0.00	19.73	0.00	----	----	0.00	0.00	60.66	0.00	60.66
1979	39.85	0.00	61.65	3.00	0.00	1.00	0.00	20.38	0.00	----	----	0.00	0.00	64.23	0.00	64.23
1980	36.71	0.00	66.19	2.72	0.00	0.90	0.00	9.42	0.46	----	----	0.00	0.00	49.75	0.46	50.21
1981	32.55	0.00	70.85	2.00	0.00	0.70	0.00	11.27	0.56	----	----	0.00	0.00	46.52	0.56	47.08
1982	32.21	0.00	70.60	2.27	0.00	0.12	0.00	10.92	0.58	----	----	0.00	0.00	45.52	0.58	46.10
1983	56.34	0.00	64.61	2.30	0.00	0.11	0.04	11.20	0.59	----	----	0.00	0.00	69.95	0.63	70.58
1984	41.93	0.00	75.79	3.52	0.00	0.21	0.03	11.02	0.58	----	----	0.00	0.00	56.68	0.61	57.29
1985	40.13	0.00	76.28	3.72	0.00	0.05	0.00	0.95	0.35	9.30	0.20	0.00	0.00	54.15	0.55	54.70
1986	39.51	0.00	77.91	2.37	0.00	0.04	0.00	16.22	0.86	----	----	0.00	0.00	58.14	0.86	59.00
1987	40.02	0.00	79.55	1.70	0.00	0.07	0.00	6.72	0.63	----	----	0.00	0.00	48.51	0.63	49.14
1988	46.57	0.00	73.68	7.54	0.00	0.03	0.00	4.24	0.91	----	----	0.00	0.00	58.38	0.91	59.29
1989	46.88	0.00	69.93	1.77	0.00	0.07	0.00	1.54	3.81	----	----	0.00	0.00	50.26	3.81	54.07
1990	40.97	0.00	77.91	1.98	0.00	0.08	0.00	1.29	0.00	3.78	1.35	0.00	0.00	48.10	1.35	49.45
1991	39.79	0.00	70.36	0.76	0.00	0.14	0.14	0.36	0.85	1.80	11.42	0.00	0.00	42.85	12.41	55.26
1992	32.49	0.00	81.12	1.77	0.00	0.17	0.27	0.33	0.77	1.64	4.90	0.00	0.00	36.40	5.94	42.34
1993	37.67	0.00	73.83	8.89	0.00	0.08	0.16	0.55	0.03	2.23	4.85	0.00	0.00	49.42	5.04	54.46
1994	38.71	0.00	84.33	9.06	0.00	0.17	0.44	1.31	0.02	2.20	3.87	0.00	0.00	51.45	4.33	55.78
1995	34.83	0.00	78.52	4.99	0.00	0.04	0.07	0.59	0.03	2.28	1.92	0.00	0.00	42.73	2.02	44.75
1996	32.99	0.00	86.68	0.66	0.00	0.12	0.24	0.40	0.03	2.00	2.40	0.00	0.00	36.17	2.67	38.84
1997	33.61	0.00	81.31	2.99	0.00	0.06	0.07	0.52	0.04	2.43	5.92	0.00	0.00	39.61	6.03	45.64
1998	34.23	0.00	79.30	0.35	0.00	0.12	0.18	0.52	0.03	2.32	2.36	0.00	0.00	37.54	2.57	40.11
1999	34.35	0.00	86.27	0.40	0.00	0.11	0.26	0.45	0.04	2.89	3.29	0.00	0.00	38.20	3.59	41.79
2000	39.88	0.00	78.74	0.41	0.00	0.09	0.55	0.43	0.03	2.39	3.00	0.00	0.00	43.20	3.58	46.78

Public supply transfers represent water withdrawn in Hillsborough and Pasco Counties and imported for use in Pinellas County.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965-1984 and 1986-1989.

Data source; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee, and published data from the Southwest Florida Water Management District, Brooksville.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004) and Southwest Florida Water Management District (2002).

Appendix 1. Freshwater withdrawals by category in Polk County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee; all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	26.40	0.00	0.00	2.14	0.00	270.00	0.00	51.80	9.10	----	----	0.10	265.00	350.44	274.10	624.54
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	27.70	0.00	0.00	7.02	0.00	236.00	71.00	156.10	17.30	----	----	0.10	110.00	426.92	198.30	625.22
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	31.23	0.00	0.00	9.30	0.00	270.38	1.85	96.89	5.10	----	----	0.10	298.50	407.90	305.45	713.35
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	30.37	0.00	0.00	9.30	0.00	233.43	0.00	91.34	5.65	----	----	0.20	222.90	364.64	228.55	593.19
1978	32.50	0.00	0.00	9.36	0.00	223.60	4.10	85.80	4.40	----	----	0.10	168.00	351.36	176.50	527.86
1979	34.90	0.00	0.00	11.32	0.00	199.91	23.60	78.07	3.99	----	----	0.10	221.60	324.30	249.19	573.49
1980	35.54	0.00	0.00	13.84	0.00	208.71	0.00	53.96	3.52	----	----	0.20	295.00	312.25	298.52	610.77
1981	41.38	0.00	0.00	14.53	0.00	187.41	14.70	125.93	7.55	----	----	0.30	315.00	369.55	337.25	706.80
1982	65.15	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1983	46.53	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1984	50.80	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1985	54.90	0.00	0.00	18.17	0.00	135.93	1.14	105.92	7.58	4.06	0.75	1.38	68.97	320.36	78.44	398.80
1986	57.15	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	60.17	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	64.75	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	65.61	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	65.52	0.00	0.00	23.26	0.00	143.35	0.00	114.35	11.94	5.78	1.27	1.41	70.62	353.67	83.83	437.50
1991	69.43	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	67.34	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	63.18	0.19	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	58.52	0.30	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	58.15	0.27	0.00	7.67	0.00	67.61	24.12	100.14	4.32	8.71	1.38	0.70	118.78	242.98	148.87	391.85
1996	63.26	0.22	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1997	65.68	0.21	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	71.03	0.14	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	71.22	0.15	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	75.43	0.06	0.00	12.45	0.00	71.20	6.39	157.53	9.33	9.65	2.29	4.27	15.66	330.53	33.73	364.26

Polk County is located within the St. Johns River, South Florida and the Southwest Florida Water Management Districts. The values shown represent the County totals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data source; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - Published water-use data from the St. Johns River Water Management District and the Southwest Florida Water Management District.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004), St. Johns River Water Management District (2004), and the Southwest Florida Water Management District (2002).

Appendix 1. Freshwater withdrawals by category in Putnam County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	2.00	0.00	0.00	0.92	0.00	3.00	54.00	11.81	1.52	----	----	0.06	13.00	17.79	68.52	86.31
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	2.70	0.00	0.00	2.69	0.00	15.50	16.00	7.60	2.10	----	----	0.05	123.00	28.54	141.10	169.64
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	2.58	0.00	0.00	2.91	0.00	16.20	21.00	18.86	0.18	----	----	0.06	120.00	40.61	141.18	181.79
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	3.14	0.00	0.00	3.03	0.00	16.20	21.00	18.96	4.71	----	----	0.17	1.20	41.50	26.91	68.41
1978	2.50	0.00	0.00	3.96	0.00	19.23	21.00	25.47	3.05	----	----	0.17	0.33	51.33	24.38	75.71
1979	2.55	0.00	0.00	7.16	0.00	20.50	23.14	48.10	5.58	----	----	0.33	0.69	78.64	29.41	108.05
1980	2.86	0.00	0.00	4.76	0.00	19.23	21.00	32.97	3.90	----	----	0.34	0.69	60.16	25.59	85.75
1981	2.77	0.00	0.00	8.16	0.00	29.38	8.07	24.31	1.10	----	----	0.24	0.41	64.86	9.58	74.44
1982	3.45	0.00	0.00	7.40	0.00	19.02	36.57	20.58	1.71	----	----	0.31	0.42	50.76	38.70	89.46
1983	3.06	0.00	0.00	6.64	0.00	16.15	39.27	21.01	1.67	----	----	0.36	1.70	47.22	42.64	89.86
1984	2.80	0.00	0.00	6.09	0.00	26.02	12.82	21.42	1.10	----	----	0.62	1.77	56.95	15.69	72.64
1985	2.97	0.00	0.00	6.35	0.00	43.07	9.98	16.92	0.96	0.28	0.00	0.68	9.13	70.27	20.07	90.34
1986	3.18	0.00	0.00	6.44	0.00	37.37	10.20	18.38	1.52	0.33	0.00	0.53	12.09	66.23	23.81	90.04
1987	3.28	0.00	0.00	6.54	0.00	42.71	4.00	15.54	1.04	0.26	0.00	0.52	11.62	68.85	16.66	85.51
1988	3.44	0.00	0.00	6.34	0.00	43.64	4.00	18.53	1.14	0.24	0.00	1.26	12.04	73.45	17.18	90.63
1989	3.38	0.00	0.00	6.23	0.00	43.74	4.01	19.11	1.37	0.26	0.00	0.45	12.31	73.17	17.69	90.86
1990	3.15	0.00	0.00	5.95	0.00	33.52	10.27	20.17	1.35	0.31	0.00	0.53	7.71	63.63	19.33	82.96
1991	3.59	0.00	0.00	6.71	0.00	23.35	26.37	13.14	0.64	0.27	0.00	0.61	14.93	47.67	41.94	89.61
1992	3.70	0.00	0.00	6.94	0.00	21.67	37.66	16.54	0.84	0.09	0.00	0.46	14.19	49.40	52.69	102.09
1993	3.71	0.00	0.00	6.58	0.00	18.94	33.14	12.12	0.84	0.21	0.00	0.55	12.27	42.11	46.25	88.36
1994	3.41	0.00	0.00	6.05	0.00	8.44	33.94	11.56	0.66	0.20	0.00	0.66	12.56	30.32	47.16	77.48
1995	3.59	0.00	0.00	8.23	0.00	11.19	34.74	14.20	1.08	0.20	0.00	0.70	14.50	38.11	50.32	88.43
1996	3.91	0.00	0.00	8.60	0.00	20.36	17.26	16.14	1.12	0.32	0.00	0.55	15.91	49.88	34.29	84.17
1997	3.25	0.00	0.00	6.72	0.00	17.54	17.47	13.17	0.70	0.32	0.00	0.60	17.99	41.60	36.16	77.76
1998	3.87	0.00	0.00	8.48	0.00	19.55	33.98	14.76	0.77	0.36	0.00	0.61	16.33	47.63	51.08	98.71
1999	2.96	0.00	0.00	5.78	0.00	24.16	33.65	15.31	0.88	0.27	0.00	0.58	14.39	49.06	48.92	97.98
2000	3.20	0.00	0.00	4.99	0.00	19.14	31.12	11.69	3.50	0.64	0.40	0.69	13.90	40.35	48.92	89.27

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965 -1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991 -1994, 1996-1999 - Published water-use data from the St. Johns River Water Management District, Palatka.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004) and St. Johns River Water Management District (2004).

Appendix 1. Freshwater withdrawals by category in St. Johns County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	1.20	1.80	0.00	0.60	0.00	0.00	0.00	13.98	0.02	----	----	0.00	0.00	15.78	1.82	17.60
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	1.40	1.10	0.00	1.68	0.00	0.00	0.00	22.10	0.00	----	----	0.00	0.00	25.18	1.10	26.28
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	2.67	0.00	0.00	2.35	0.00	2.00	0.00	28.82	0.10	----	----	0.00	0.00	35.84	0.10	35.94
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	2.89	0.00	0.00	2.67	0.00	2.00	0.00	33.58	0.05	----	----	0.00	0.00	41.14	0.05	41.19
1978	2.73	0.00	0.00	2.94	0.00	0.00	0.00	22.96	0.09	----	----	0.00	0.00	28.63	0.09	28.72
1979	2.83	0.00	0.00	2.73	0.00	0.00	0.00	29.47	0.49	----	----	0.00	0.00	35.03	0.49	35.52
1980	3.50	0.00	0.00	2.38	0.00	0.02	0.00	24.85	0.49	----	----	0.00	0.00	30.75	0.49	31.24
1981	4.96	0.00	0.00	2.62	0.00	0.01	0.00	29.86	0.49	----	----	0.00	0.00	37.45	0.49	37.94
1982	5.69	0.00	0.00	2.60	0.00	0.22	0.00	32.55	0.49	----	----	0.00	0.00	41.06	0.49	41.55
1983	6.12	0.00	0.00	1.80	0.00	0.04	0.00	36.10	0.72	----	----	0.00	0.00	44.06	0.72	44.78
1984	6.98	0.00	0.00	2.52	0.00	0.06	0.00	34.49	1.43	----	----	0.00	0.00	44.05	1.43	45.48
1985	7.01	0.00	0.00	2.13	0.00	0.08	0.00	38.98	0.26	2.02	0.81	0.00	0.00	50.22	1.07	51.29
1986	7.28	0.00	0.00	2.13	0.00	0.07	0.00	37.88	0.10	2.17	1.19	0.00	0.00	49.53	1.29	50.82
1987	7.61	0.00	0.00	2.23	0.00	0.06	0.00	25.57	0.10	1.72	0.98	0.00	0.00	37.19	1.08	38.27
1988	7.49	0.00	0.00	2.12	0.00	0.04	0.00	33.41	0.10	1.41	0.80	0.00	0.00	44.47	0.90	45.37
1989	7.79	0.00	0.00	2.10	0.00	0.05	0.00	35.97	0.10	1.74	1.00	0.00	0.00	47.65	1.10	48.75
1990	8.39	0.00	0.00	2.24	0.00	0.09	0.00	38.29	0.10	2.25	1.29	0.00	0.00	51.26	1.39	52.65
1991	7.63	0.00	0.00	2.62	0.00	0.07	0.00	28.60	0.00	1.97	1.12	0.00	0.00	40.89	1.12	42.01
1992	8.62	0.00	0.00	2.50	0.00	0.08	0.00	35.57	0.00	0.62	0.35	0.00	0.00	47.39	0.35	47.74
1993	11.54	0.00	0.00	0.49	0.00	0.06	0.00	27.00	0.00	1.77	1.03	0.00	0.00	40.86	1.03	41.89
1994	9.72	0.00	0.00	0.50	0.00	0.05	0.00	28.20	0.00	1.75	1.02	0.00	0.00	40.22	1.02	41.24
1995	10.30	0.00	0.00	2.89	0.00	0.06	0.00	31.35	0.00	1.13	0.64	0.00	0.00	45.73	0.64	46.37
1996	11.53	0.00	0.00	2.69	0.00	0.05	0.00	28.24	0.00	1.65	0.93	0.00	0.00	44.16	0.93	45.09
1997	12.32	0.00	0.00	2.80	0.00	0.06	0.00	26.23	0.00	1.48	0.84	0.00	0.00	42.89	0.84	43.73
1998	13.88	0.00	0.00	2.82	0.00	0.06	0.00	32.73	0.00	1.84	1.04	0.00	0.00	51.33	1.04	52.37
1999	14.89	0.00	0.00	3.10	0.00	0.06	0.00	32.36	0.00	1.34	0.77	0.00	0.00	51.75	0.77	52.52
2000	16.49	0.00	0.00	1.91	0.00	0.01	0.00	28.59	0.00	5.55	3.16	0.00	0.00	52.55	3.16	55.71

Public supply treated includes water that does not meet public drinking water standards and is either treated through a desalination process or is diluted with fresher water to meet standards.

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in St. Lucie County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Treated	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	3.20	0.00	0.00	1.70	0.00	0.80	0.00	46.40	139.30	----	----	0.00	0.00	52.10	139.30	191.40
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	4.30	0.00	0.00	2.02	0.00	1.20	0.00	25.90	159.50	----	----	0.00	0.00	33.42	159.50	192.92
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	6.14	0.00	0.00	3.97	0.00	0.19	0.00	49.60	319.31	----	----	0.00	0.00	59.90	319.31	379.21
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	6.65	0.00	0.00	4.64	0.00	0.19	0.00	64.57	332.55	----	----	0.00	0.00	76.05	332.55	408.60
1978	5.69	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1980	9.69	0.00	0.05	3.18	0.00	2.05	0.00	48.89	183.13	----	----	0.00	0.00	63.81	183.13	246.94
1981	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	10.83	0.00	0.10	6.40	0.00	2.25	0.00	48.03	162.85	0.77	0.77	0.00	0.00	68.28	163.62	231.90
1986	11.06	0.00	0.09	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	12.38	0.00	0.14	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	13.10	0.00	0.21	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	14.34	0.00	0.25	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	14.39	0.00	0.43	11.49	0.00	1.59	1.50	52.04	166.87	4.33	2.29	0.00	0.00	83.84	170.66	254.50
1991	14.13	0.00	0.45	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	14.57	0.00	0.43	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	14.50	0.00	0.72	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	13.92	0.00	0.85	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	15.31	0.00	1.00	9.15	0.00	0.07	5.03	51.53	222.10	4.70	1.98	0.00	0.00	80.76	229.11	309.87
1996	15.54	0.00	1.26	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1997	15.69	0.00	1.86	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	15.85	0.00	1.87	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	16.40	0.00	2.83	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	17.95	0.00	5.65	7.39	0.00	6.35	2.53	45.16	192.18	3.99	4.21	0.00	0.00	80.84	198.92	279.76

Public supply treated includes water that does not meet public drinking water standards and is either treated through a desalination process or is diluted with fresher water to meet standards.

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965 -1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991 -1994, 1996-1999 - Published water-use data from the St. Johns River Water Management District, Palatka.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004) and St. Johns River Water Management District (2004).

Appendix 1. Freshwater withdrawals by category in Santa Rosa County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ---, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	1.10	0.00	0.00	1.50	0.00	7.20	0.00	0.40	0.02	---	---	0.00	0.00	10.20	0.02	10.22
1966	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1967	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1968	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1969	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1970	2.40	0.00	0.00	2.75	0.00	10.30	0.00	0.20	0.00	---	---	0.00	0.00	15.65	0.00	15.65
1971	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1972	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1973	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1974	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1975	3.40	0.00	0.00	1.05	0.00	17.67	0.00	0.40	0.17	---	---	0.00	0.00	22.52	0.17	22.69
1976	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1977	4.39	0.00	0.00	1.18	0.00	18.99	0.00	1.56	0.21	---	---	0.00	0.00	26.12	0.21	26.33
1978	4.56	0.00	0.00	---	---	---	---	---	---	---	---	---	---	N/A	N/A	N/A
1979	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1980	5.83	0.00	0.00	0.68	0.00	18.52	0.00	0.69	0.32	---	---	0.00	0.00	25.72	0.32	26.04
1981	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1982	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1983	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1984	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1985	7.80	0.00	0.00	0.82	0.00	6.59	0.00	1.20	0.15	0.00	0.00	0.00	0.00	16.41	0.15	16.56
1986	8.70	0.00	0.00	---	---	---	---	---	---	---	---	---	---	N/A	N/A	N/A
1987	9.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	N/A	N/A	N/A
1988	8.88	0.00	0.00	---	---	---	---	---	---	---	---	---	---	N/A	N/A	N/A
1989	8.79	0.00	0.00	---	---	---	---	---	---	---	---	---	---	N/A	N/A	N/A
1990	9.63	0.00	0.00	0.58	0.00	6.48	0.00	2.08	0.22	3.83	0.07	0.00	0.00	22.60	0.29	22.89
1991	9.41	0.00	0.00	---	---	---	---	---	---	---	---	---	---	N/A	N/A	N/A
1992	10.62	0.00	0.00	---	---	---	---	---	---	---	---	---	---	N/A	N/A	N/A
1993	10.78	0.00	0.00	---	---	---	---	---	---	---	---	---	---	N/A	N/A	N/A
1994	10.62	0.00	0.00	---	---	---	---	---	---	---	---	---	---	N/A	N/A	N/A
1995	11.28	0.00	0.43	0.67	0.00	6.02	0.00	0.81	0.15	3.45	0.07	0.00	0.00	22.23	0.22	22.45
1996	11.05	0.00	1.03	---	---	---	---	---	---	---	---	---	---	N/A	N/A	N/A
1997	11.34	0.00	1.15	---	---	---	---	---	---	---	---	---	---	N/A	N/A	N/A
1998	12.57	0.00	1.17	---	---	---	---	---	---	---	---	---	---	N/A	N/A	N/A
1999	12.42	0.00	1.05	---	---	---	---	---	---	---	---	---	---	N/A	N/A	N/A
2000	13.47	0.00	1.07	0.81	0.00	5.57	0.00	5.00	0.00	6.00	0.35	0.00	0.00	30.85	0.35	31.20

Public supply transfers represent water withdrawn in Escambia County and imported for use in Santa Rosa County.

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data source; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Sarasota County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	6.70	0.20	0.00	0.88	0.00	0.40	0.00	40.00	0.80	----	----	0.00	0.00	47.98	1.00	48.98
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	10.90	0.30	0.00	1.93	0.00	7.60	0.00	27.30	2.30	----	----	0.00	0.00	47.73	2.60	50.33
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	9.33	0.00	0.98	7.33	0.00	2.99	0.00	18.35	2.34	----	----	0.00	0.00	38.00	2.34	40.34
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	9.58	1.26	2.10	6.70	0.00	2.92	0.00	22.65	2.68	----	----	0.00	0.00	41.85	3.94	45.79
1978	9.10	1.40	6.30	5.46	0.00	0.30	0.00	30.95	3.52	----	----	0.00	0.00	45.81	4.92	50.73
1979	9.90	1.80	6.60	5.21	0.00	0.30	0.00	25.05	2.85	----	----	0.00	0.00	40.46	4.65	45.11
1980	11.10	1.30	7.17	1.08	0.00	0.10	0.00	20.89	0.47	----	----	0.00	0.00	33.17	1.77	34.94
1981	11.60	1.26	8.34	1.06	0.00	0.10	0.00	19.52	0.44	----	----	0.00	0.00	32.28	1.70	33.98
1982	14.53	0.00	9.46	0.65	0.00	0.45	0.00	21.51	0.44	----	----	0.00	0.00	37.14	0.44	37.58
1983	14.04	0.76	12.95	0.67	0.00	0.91	0.00	19.74	0.41	----	----	0.00	0.00	35.36	1.17	36.53
1984	13.70	0.74	11.92	1.04	0.00	0.71	0.00	23.58	0.48	----	----	0.00	0.00	39.03	1.22	40.25
1985	17.09	0.78	9.40	3.14	0.00	0.49	0.00	13.68	0.00	5.96	0.47	0.00	0.00	40.36	1.25	41.61
1986	19.14	1.58	10.20	2.17	0.00	0.05	0.00	23.42	0.48	----	----	0.00	0.00	44.78	2.06	46.84
1987	18.65	1.32	10.29	4.62	0.00	2.48	0.00	14.78	0.68	----	----	0.00	0.00	40.53	2.00	42.53
1988	17.43	0.00	11.67	2.90	0.00	4.55	0.00	15.48	3.17	----	----	0.00	0.00	40.36	3.17	43.53
1989	17.92	0.00	13.25	3.71	0.00	2.81	0.48	15.42	2.49	----	----	0.00	0.00	39.86	2.97	42.83
1990	21.43	0.00	14.18	3.86	0.00	1.87	0.48	27.48	2.39	4.85	0.31	0.00	0.00	59.49	3.18	62.67
1991	28.59	0.00	14.16	3.25	0.00	0.39	3.76	18.54	1.73	2.78	2.95	0.00	0.00	53.55	8.44	61.99
1992	27.01	0.00	11.69	4.34	0.00	0.37	4.27	7.46	4.93	3.00	3.15	0.00	0.00	42.18	12.35	54.53
1993	22.89	2.73	11.63	9.90	0.00	0.14	2.91	6.00	2.30	3.36	2.70	0.00	0.00	42.29	10.64	52.93
1994	21.36	1.28	12.56	5.80	0.00	0.10	4.03	3.47	2.48	3.41	2.74	0.00	0.00	34.14	10.53	44.67
1995	25.21	0.77	10.20	0.67	0.00	0.07	5.05	3.41	0.24	2.98	2.96	0.00	0.00	32.34	9.02	41.36
1996	23.00	1.30	10.66	3.29	0.00	0.09	2.25	5.07	0.84	3.28	3.68	0.00	0.00	34.73	8.07	42.80
1997	24.64	1.01	10.21	4.57	0.00	0.11	1.02	5.26	0.43	4.23	3.32	0.00	0.00	38.81	5.78	44.59
1998	25.15	1.19	10.23	1.25	0.00	0.11	0.66	5.21	0.59	4.27	3.81	0.00	0.00	35.99	6.25	42.24
1999	23.85	1.50	10.89	0.99	0.00	0.29	1.13	5.41	0.68	4.64	3.24	0.00	0.00	35.18	6.55	41.73
2000	27.56	0.85	10.62	0.43	0.00	0.31	0.33	6.88	0.66	4.89	4.07	0.00	0.00	40.07	5.91	45.98

Public supply transfers represent water withdrawn in DeSoto and Manatee Counties and imported for use in Sarasota County.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965-1984 and 1986-1989.

Data source; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee, and published data from the Southwest Florida Water Management District, Brooksville.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004) and Southwest Florida Water Management District (2002).

Appendix 1. Freshwater withdrawals by category in Seminole County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	4.20	0.00	0.00	1.81	0.04	0.00	0.00	4.90	5.98	----	----	0.00	0.00	10.91	6.02	16.93
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	6.30	0.00	0.00	2.65	0.00	0.50	0.00	3.40	2.70	----	----	0.00	0.00	12.85	2.70	15.55
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	10.50	0.00	0.00	8.05	0.00	2.59	0.00	10.98	0.00	----	----	0.00	0.00	32.12	0.00	32.12
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	12.60	0.00	0.00	8.63	0.00	2.59	0.00	12.97	0.67	----	----	0.00	0.00	36.79	0.67	37.46
1978	13.98	0.00	0.00	8.54	0.00	3.77	0.00	18.38	0.92	----	----	0.00	0.00	44.67	0.92	45.59
1979	18.78	0.00	0.00	7.57	0.00	3.10	0.00	27.53	1.69	----	----	0.00	0.00	56.98	1.69	58.67
1980	25.65	0.00	0.00	11.68	0.00	4.13	0.00	18.68	0.40	----	----	0.00	0.00	60.14	0.40	60.54
1981	25.97	0.00	0.00	5.67	0.00	4.03	0.00	20.07	0.40	----	----	0.00	0.00	55.74	0.40	56.14
1982	25.16	0.00	0.00	5.63	0.00	3.37	0.00	26.94	0.40	----	----	0.00	0.00	61.10	0.40	61.50
1983	28.19	0.00	0.00	3.30	0.00	4.39	0.00	32.80	0.40	----	----	0.00	0.00	68.68	0.40	69.08
1984	31.85	0.00	0.00	4.62	0.00	5.29	0.00	31.49	0.75	----	----	0.00	0.00	73.25	0.75	74.00
1985	34.86	0.00	0.00	3.63	0.00	4.96	0.00	20.87	1.18	3.52	0.88	0.00	0.00	67.84	2.06	69.90
1986	38.68	0.00	0.00	3.72	0.00	2.54	0.00	20.16	1.18	4.98	1.13	0.00	0.00	70.08	2.31	72.39
1987	40.90	0.00	0.00	4.12	0.00	0.62	0.00	16.62	1.21	4.05	0.96	0.00	0.00	66.31	2.17	68.48
1988	42.86	0.00	0.00	5.03	0.00	0.61	0.00	15.16	1.19	3.54	0.83	0.00	0.00	67.20	2.02	69.22
1989	47.39	0.00	0.00	5.00	0.00	0.53	0.00	8.33	1.10	4.37	1.02	0.00	0.00	65.62	2.12	67.74
1990	50.79	0.00	0.00	3.14	0.00	0.49	0.00	8.25	1.10	2.90	0.70	0.00	0.00	65.57	1.80	67.37
1991	46.44	0.00	0.00	0.62	0.00	0.53	0.00	5.53	0.14	4.25	1.02	0.00	0.00	57.37	1.16	58.53
1992	47.15	0.00	0.00	2.32	0.00	0.43	0.00	5.61	0.07	1.62	0.38	0.00	0.00	57.13	0.45	57.58
1993	49.10	0.00	0.00	1.36	0.00	0.41	0.00	6.55	0.09	4.01	1.01	0.00	0.00	61.43	1.10	62.53
1994	48.49	0.00	0.00	4.13	0.00	0.17	0.00	6.65	0.19	3.98	1.00	0.00	0.00	63.42	1.19	64.61
1995	50.69	0.00	0.00	8.63	0.00	0.14	0.00	6.99	0.26	2.46	0.62	0.00	0.00	68.91	0.88	69.79
1996	50.76	0.00	0.00	5.64	0.00	0.15	0.00	6.25	0.21	3.74	0.89	0.00	0.00	66.54	1.10	67.64
1997	54.82	0.00	0.00	5.95	0.00	0.16	0.00	6.73	0.37	4.12	0.98	0.00	0.00	71.78	1.35	73.13
1998	61.01	0.00	0.00	5.90	0.00	0.15	0.00	7.67	0.22	4.70	1.11	0.00	0.00	79.43	1.33	80.76
1999	60.08	0.00	0.00	3.89	0.00	0.09	0.00	4.39	0.14	3.07	0.73	0.00	0.00	71.52	0.87	72.39
2000	66.90	0.00	0.00	2.73	0.00	0.08	0.00	11.06	0.02	7.70	1.76	0.00	0.00	88.47	1.78	90.25

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - Published water-use data from the St. Johns River Water Management District, Palatka.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004) and St. Johns River Water Management District (2004).

Appendix 1. Freshwater withdrawals by category in Sumter County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	0.50	0.00	0.00	0.79	0.00	26.00	0.00	3.97	0.21	----	----	0.00	0.00	31.26	0.21	31.47
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	0.80	0.00	0.00	1.20	0.00	18.50	0.00	4.60	0.00	----	----	0.00	0.00	25.10	0.00	25.10
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	0.61	0.00	0.00	1.35	0.00	16.06	0.00	3.98	0.17	----	----	0.00	0.00	22.00	0.17	22.17
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	0.92	0.00	0.00	1.45	0.00	16.06	0.00	3.96	0.17	----	----	0.00	0.00	22.39	0.17	22.56
1978	0.90	0.00	0.00	1.57	0.00	0.10	0.00	3.94	0.20	----	----	0.00	0.00	6.51	0.20	6.71
1979	0.80	0.00	0.00	1.63	0.00	2.32	0.00	16.53	0.83	----	----	0.00	0.00	21.28	0.83	22.11
1980	1.00	0.00	0.00	1.89	0.00	1.14	0.00	17.01	0.34	----	----	0.00	0.00	21.04	0.34	21.38
1981	1.10	0.00	0.00	1.93	0.00	10.50	0.00	19.72	0.39	----	----	0.00	0.00	33.25	0.39	33.64
1982	1.52	0.00	0.00	1.39	0.00	45.00	0.00	13.64	0.28	----	----	0.00	0.00	61.55	0.28	61.83
1983	1.08	0.00	0.00	1.53	0.00	32.34	0.00	11.62	0.24	----	----	0.00	0.00	46.57	0.24	46.81
1984	1.18	0.00	0.00	2.60	0.00	32.87	0.00	19.73	0.40	----	----	0.00	0.00	56.38	0.40	56.78
1985	1.31	0.00	0.00	2.41	0.00	57.76	0.00	16.25	0.35	0.54	0.00	0.00	0.00	78.27	0.35	78.62
1986	1.25	0.00	0.00	2.50	0.00	39.03	0.00	15.73	0.32	----	----	0.00	0.00	58.51	0.32	58.83
1987	1.13	0.00	0.00	2.29	0.00	44.70	0.00	8.47	0.26	----	----	0.00	0.00	56.59	0.26	56.85
1988	1.94	0.00	0.00	3.68	0.00	82.58	0.00	5.78	0.20	----	----	0.00	0.00	93.98	0.20	94.18
1989	2.01	0.00	0.00	3.83	0.00	69.89	0.00	7.40	0.38	----	----	0.00	0.00	83.13	0.38	83.51
1990	1.90	0.00	0.00	3.00	0.00	60.02	0.00	7.59	0.47	0.62	0.00	0.00	0.00	73.13	0.47	73.60
1991	2.36	0.00	0.00	1.85	0.00	0.63	56.85	25.05	1.84	0.33	0.49	0.00	0.00	30.22	59.18	89.40
1992	2.42	0.00	0.00	1.78	0.00	0.64	64.54	27.02	1.04	0.27	0.52	0.00	0.00	32.13	66.10	98.23
1993	2.33	0.00	0.00	1.88	0.00	0.12	50.23	9.00	0.21	0.58	0.00	0.00	0.00	13.91	50.44	64.35
1994	2.70	0.00	0.00	1.49	0.00	0.11	30.80	6.70	0.21	1.07	0.00	0.00	0.00	12.07	31.01	43.08
1995	2.45	0.00	0.00	0.93	0.00	0.20	53.39	7.76	0.20	1.21	0.00	0.00	0.00	12.55	53.59	66.14
1996	2.52	0.00	0.00	2.14	0.00	0.21	26.94	8.68	0.36	1.19	0.00	0.00	0.00	14.74	27.30	42.04
1997	2.76	0.00	0.00	3.05	0.00	0.25	23.85	9.12	0.33	1.68	0.00	0.00	0.00	16.86	24.18	41.04
1998	4.04	0.00	0.00	2.51	0.00	0.26	35.32	9.57	0.40	1.54	0.21	0.00	0.00	17.92	35.93	53.85
1999	4.61	0.00	0.00	5.10	0.00	0.35	33.54	9.30	0.38	2.78	0.00	0.00	0.00	22.14	33.92	56.06
2000	4.44	0.00	0.00	4.57	0.00	0.36	16.98	14.08	0.54	3.35	0.17	0.00	0.00	26.80	17.69	44.49

Water withdrawals for mining operations were classified as ground water between 1965 and 1990, and were re-classified as surface water beginning in 1991.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965-1984 and 1986-1989.

Data source; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee, and published data from the Southwest Florida Water Management District, Brooksville.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004) and Southwest Florida Water Management District (2002).

Appendix 1. Freshwater withdrawals by category in Suwannee County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	0.60	0.00	0.00	0.50	0.03	0.00	0.00	0.56	0.39	----	----	0.01	180.02	1.67	180.44	182.11
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	0.60	0.00	0.00	0.94	0.00	7.10	0.00	4.10	0.00	----	----	0.01	173.00	12.75	173.00	185.75
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	1.13	0.00	0.00	0.99	0.00	2.39	0.00	1.95	0.02	----	----	0.01	172.80	6.47	172.82	179.29
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	1.23	0.00	0.00	1.29	0.00	1.98	0.00	8.05	0.38	----	----	0.01	172.80	12.56	173.18	185.74
1978	1.13	0.00	0.00	1.42	0.00	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1980	1.06	0.00	0.00	1.54	0.00	0.79	0.00	8.38	1.22	----	----	0.01	172.80	11.78	174.02	185.80
1981	1.20	0.00	0.00	----	----	0.90	0.00	----	----	----	----	----	----	N/A	N/A	N/A
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	1.33	0.00	0.00	2.45	0.00	0.95	1.43	16.33	0.22	0.16	0.00	0.08	64.95	21.30	66.60	87.90
1986	1.35	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	1.33	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	1.24	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	1.32	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	1.36	0.00	0.00	2.95	0.00	0.81	0.30	27.06	0.65	0.05	0.00	0.07	108.51	32.30	109.46	141.76
1991	1.31	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	1.31	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	1.44	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	1.46	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	1.42	0.00	0.00	3.25	0.00	1.22	0.00	23.15	0.41	0.05	0.00	0.14	112.97	29.23	113.38	142.61
1996	1.48	0.00	0.00	----	----	1.24	0.00	----	----	----	----	0.17	97.60	N/A	N/A	N/A
1997	1.30	0.00	0.00	----	----	1.25	0.00	----	----	----	----	0.19	120.00	N/A	N/A	N/A
1998	1.43	0.00	0.00	----	----	1.27	0.00	----	----	----	----	0.15	116.89	N/A	N/A	N/A
1999	1.38	0.00	0.00	----	----	1.38	0.00	----	----	----	----	0.16	122.93	N/A	N/A	N/A
2000	1.40	0.00	0.00	2.70	0.00	1.54	0.00	20.64	0.38	0.07	0.02	0.06	101.01	26.41	101.41	127.82

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Taylor County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	1.00	0.00	0.00	0.20	0.00	50.00	0.00	0.12	0.08	----	----	0.00	0.00	51.32	0.08	51.40
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	1.20	0.00	0.00	0.38	0.00	53.70	0.00	0.10	0.00	----	----	0.00	0.00	55.38	0.00	55.38
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	1.37	0.00	0.00	0.42	0.00	57.02	0.00	0.29	0.13	----	----	0.00	0.00	59.10	0.13	59.23
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	1.67	0.00	0.00	0.53	0.00	48.40	0.00	0.17	0.16	----	----	0.00	0.00	50.77	0.16	50.93
1978	1.45	0.00	0.00	0.91	0.00	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1980	1.49	0.00	0.00	0.84	0.00	51.05	0.00	0.15	0.13	----	----	0.00	0.00	53.53	0.13	53.66
1981	----	----	----	----	----	48.27	0.00	----	----	----	----	0.00	0.00	N/A	N/A	N/A
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	1.58	0.00	0.00	1.13	0.00	45.21	1.63	0.61	0.00	0.00	0.00	0.00	0.00	48.53	1.63	50.16
1986	1.50	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	1.59	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	1.30	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	1.46	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	1.42	0.00	0.00	0.99	0.00	46.37	1.20	0.47	0.08	0.13	0.00	0.00	0.00	49.38	1.28	50.66
1991	1.44	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	1.32	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	1.24	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	1.39	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	1.93	0.00	0.00	1.33	0.00	47.40	1.98	0.33	0.00	0.11	0.00	0.00	0.00	51.10	1.98	53.08
1996	1.73	0.00	0.00	----	----	45.59	1.85	----	----	----	----	----	----	N/A	N/A	N/A
1997	1.70	0.00	0.00	----	----	44.37	1.79	----	----	----	----	----	----	N/A	N/A	N/A
1998	1.80	0.00	0.00	----	----	42.12	1.93	----	----	----	----	----	----	N/A	N/A	N/A
1999	1.79	0.00	0.00	----	----	43.75	1.73	----	----	----	----	----	----	N/A	N/A	N/A
2000	1.73	0.00	0.00	0.95	0.00	42.15	2.96	1.89	0.04	0.07	0.02	0.00	0.00	46.79	3.02	49.81

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Union County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	0.15	0.00	0.00	0.20	0.00	0.80	0.00	0.06	0.09	----	----	0.00	0.00	1.21	0.09	1.30
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	0.10	0.00	0.00	0.78	0.00	0.60	0.00	0.09	0.02	----	----	0.00	0.00	1.57	0.02	1.59
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	0.55	0.00	0.00	0.87	0.00	0.00	0.00	0.23	0.02	----	----	0.00	0.00	1.65	0.02	1.67
1976	0.55	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1977	0.56	0.00	0.00	0.40	0.00	0.00	0.00	0.26	0.13	----	----	0.00	0.00	1.22	0.13	1.35
1978	0.59	0.00	0.00	0.44	0.00	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	0.56	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1980	0.57	0.00	0.00	0.47	0.00	0.00	0.00	0.17	0.09	----	----	0.00	0.00	1.21	0.09	1.30
1981	0.50	0.00	0.00	----	----	----	----	----	----	----	----	0.00	0.00	N/A	N/A	N/A
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	0.52	0.00	0.00	0.86	0.00	0.02	0.00	0.71	0.00	0.00	0.00	0.00	0.00	2.11	0.00	2.11
1986	0.65	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	0.61	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	0.62	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	0.61	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	0.63	0.00	0.00	1.18	0.00	0.01	0.00	1.23	0.68	0.00	0.00	0.00	0.00	3.05	0.68	3.73
1991	0.62	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	0.33	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	0.31	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	0.29	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	0.38	0.00	0.00	0.82	0.00	0.35	0.00	1.02	0.13	0.00	0.00	0.00	0.00	2.57	0.13	2.70
1996	0.40	0.00	0.00	----	----	0.30	0.00	----	----	----	----	----	----	N/A	N/A	N/A
1997	0.45	0.00	0.00	----	----	0.31	0.00	----	----	----	----	----	----	N/A	N/A	N/A
1998	0.54	0.00	0.00	----	----	0.35	0.00	----	----	----	----	----	----	N/A	N/A	N/A
1999	0.39	0.00	0.00	----	----	0.37	0.00	----	----	----	----	----	----	N/A	N/A	N/A
2000	0.36	0.00	0.00	1.10	0.00	0.40	0.00	1.05	0.02	0.00	0.00	0.00	0.00	2.91	0.02	2.93

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Volusia County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	13.00	0.00	0.00	1.74	0.00	0.60	0.00	6.40	1.40	----	----	0.20	350.00	21.94	351.40	373.34
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	19.20	0.00	0.00	3.67	0.00	0.50	0.00	6.90	0.30	----	----	0.50	406.00	30.77	406.30	437.07
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	25.10	0.00	0.00	6.50	0.00	0.14	0.00	5.56	0.00	----	----	0.03	314.00	37.33	314.00	351.33
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	26.60	0.00	0.00	6.35	0.00	0.14	0.00	4.87	5.03	----	----	0.00	286.00	37.96	291.03	328.99
1978	26.49	0.00	0.00	3.94	0.00	0.31	0.00	13.47	5.32	----	----	0.32	283.77	44.53	289.09	333.62
1979	28.26	0.00	0.00	5.94	0.00	0.39	0.00	20.97	6.87	----	----	0.33	75.03	55.89	81.90	137.79
1980	30.22	0.00	0.00	4.53	0.00	0.54	0.00	22.90	2.46	----	----	0.55	154.10	58.74	156.56	215.30
1981	31.79	0.00	0.00	4.52	0.00	0.54	0.00	26.25	1.36	----	----	0.34	119.56	63.44	120.92	184.36
1982	31.23	0.00	0.00	5.12	0.00	0.32	0.00	26.11	1.36	----	----	0.34	116.85	63.12	118.21	181.33
1983	32.98	0.00	0.00	6.91	0.00	0.42	0.00	26.43	1.36	----	----	0.38	108.58	67.12	109.94	177.06
1984	34.58	0.00	0.00	5.66	0.00	0.55	0.00	23.01	4.85	----	----	0.25	86.55	64.05	91.40	155.45
1985	36.39	0.00	0.00	5.32	0.00	0.64	0.00	32.39	5.32	4.17	1.18	0.16	111.25	79.07	117.75	196.82
1986	37.74	0.00	0.00	5.35	0.00	0.94	0.00	28.75	5.31	4.84	1.41	0.36	116.92	77.98	123.64	201.62
1987	40.30	0.00	0.00	5.43	0.00	1.07	0.00	28.14	5.40	3.41	1.18	0.36	117.42	78.71	124.00	202.71
1988	43.67	0.00	0.00	5.42	0.00	0.55	0.00	28.29	5.52	2.84	1.01	0.41	117.45	81.18	123.98	205.16
1989	43.68	0.00	0.00	5.40	0.00	0.83	0.00	27.75	5.13	3.32	1.18	0.43	118.64	81.41	124.95	206.36
1990	44.21	0.00	0.00	6.75	0.00	0.69	0.00	19.33	3.24	3.70	1.26	0.44	198.85	75.12	203.35	278.47
1991	42.06	0.00	0.00	2.63	0.00	0.82	0.00	16.93	2.77	3.78	1.27	0.51	118.19	66.73	122.23	188.96
1992	44.14	0.00	0.00	6.00	0.00	0.85	0.00	17.70	2.75	1.27	0.45	0.34	116.06	70.30	119.26	189.56
1993	46.63	0.00	0.00	8.03	0.00	0.83	0.00	17.91	2.78	3.41	1.09	0.59	117.69	77.40	121.56	198.96
1994	46.27	0.00	0.00	8.53	0.00	0.67	0.00	16.32	2.42	3.36	1.07	0.57	117.70	75.72	121.19	196.91
1995	48.78	0.00	0.00	3.63	0.00	0.69	0.00	25.53	4.45	2.16	0.69	0.37	70.30	81.16	75.44	156.60
1996	49.59	0.00	0.00	2.37	0.00	5.20	0.00	27.69	4.49	4.28	1.50	0.42	1.80	89.55	7.79	97.34
1997	51.28	0.00	0.00	2.63	0.00	0.40	0.00	21.05	3.07	4.31	1.50	0.43	3.06	80.10	7.63	87.73
1998	55.90	0.00	0.00	2.93	0.00	0.56	0.00	24.95	3.34	5.56	1.95	0.51	2.94	90.41	8.23	98.64
1999	55.50	0.00	0.00	2.74	0.00	0.58	0.00	22.05	3.58	3.52	1.26	0.51	3.39	84.90	8.23	93.13
2000	54.90	0.00	0.00	3.02	0.00	0.49	0.00	29.03	3.88	9.04	3.21	0.54	130.63	97.02	137.72	234.74

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Power generation withdrawals for 1996-99 do not include all fresh surface water withdrawn within the County.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - Published water-use data from the St. Johns River Water Management District, Palatka.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004) and St. Johns River Water Management District (2004).

Appendix 1. Freshwater withdrawals by category in Wakulla County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ---, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	0.02	0.00	0.00	0.30	0.00	0.00	1.00	0.01	0.02	---	---	0.00	0.00	0.33	1.02	1.35
1966	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1967	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1968	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1969	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1970	0.20	0.00	0.00	0.47	0.00	0.70	0.40	0.00	0.00	---	---	0.30	159.92	1.67	160.32	161.99
1971	---	---	---	---	---	---	---	---	---	---	---	0.32	N/A	N/A	N/A	N/A
1972	---	---	---	---	---	---	---	---	---	---	---	0.31	N/A	N/A	N/A	N/A
1973	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1974	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1975	0.26	0.00	0.00	0.42	0.00	0.80	0.43	0.01	0.03	---	---	0.28	104.64	1.77	105.10	106.87
1976	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1977	0.36	0.00	0.00	0.45	0.00	0.78	0.00	0.06	0.05	---	---	0.47	95.30	2.12	93.35	95.47
1978	0.37	0.00	0.00	---	---	---	---	---	---	---	---	---	---	N/A	N/A	N/A
1979	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1980	0.44	0.00	0.00	0.69	0.00	0.81	0.00	0.02	0.03	---	---	0.06	86.70	2.02	86.73	88.75
1981	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1982	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1983	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1984	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1985	0.59	0.00	0.00	0.65	0.00	0.55	0.00	0.04	0.00	0.00	0.00	0.01	28.97	1.84	28.97	30.81
1986	0.70	0.00	0.00	---	---	---	---	---	---	---	---	---	---	N/A	N/A	N/A
1987	0.68	0.00	0.00	---	---	---	---	---	---	---	---	---	---	N/A	N/A	N/A
1988	0.64	0.00	0.00	---	---	---	---	---	---	---	---	---	---	N/A	N/A	N/A
1989	0.83	0.00	0.00	---	---	---	---	---	---	---	---	---	---	N/A	N/A	N/A
1990	0.77	0.00	0.00	0.71	0.00	0.79	0.00	0.11	0.00	0.00	0.00	0.31	51.80	2.69	51.80	54.49
1991	0.77	0.00	0.00	---	---	---	---	---	---	---	---	---	---	N/A	N/A	N/A
1992	0.84	0.00	0.00	---	---	---	---	---	---	---	---	---	---	N/A	N/A	N/A
1993	0.92	0.00	0.00	---	---	---	---	---	---	---	---	---	---	N/A	N/A	N/A
1994	1.05	0.00	0.00	---	---	---	---	---	---	---	---	---	---	N/A	N/A	N/A
1995	1.06	0.00	0.00	1.05	0.00	0.63	0.00	0.42	0.00	0.23	0.00	0.21	68.92	3.60	68.92	72.52
1996	1.26	0.00	0.00	---	---	---	---	---	---	---	---	---	---	N/A	N/A	N/A
1997	1.33	0.00	0.00	---	---	---	---	---	---	---	---	---	---	N/A	N/A	N/A
1998	1.89	0.00	0.00	---	---	---	---	---	---	---	---	---	---	N/A	N/A	N/A
1999	1.86	0.00	0.00	---	---	---	---	---	---	---	---	---	---	N/A	N/A	N/A
2000	2.19	0.00	0.00	1.44	0.00	0.62	0.00	0.28	0.00	0.20	0.00	0.06	28.38	4.79	28.38	33.17

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Power generation withdrawals include all surface water withdrawn for power generation within the County as the water may have been reported as saline in past years.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Walton County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	0.90	0.00	0.00	0.50	0.00	0.00	0.00	0.17	0.03	----	----	0.00	0.00	1.57	0.03	1.60
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	0.70	0.00	0.00	0.83	0.00	1.20	0.00	1.01	0.00	----	----	0.00	0.00	3.74	0.00	3.74
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	1.08	0.00	0.00	0.74	0.00	0.41	0.00	0.67	0.33	----	----	0.00	0.00	2.90	0.33	3.23
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	0.99	0.00	0.00	0.95	0.00	0.80	0.00	3.75	1.03	----	----	0.00	0.00	6.49	1.03	7.52
1978	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1979	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1980	1.58	0.00	0.00	0.86	0.00	0.74	0.00	8.19	1.14	----	----	0.00	0.00	11.37	1.14	12.51
1981	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	2.99	0.00	0.00	0.48	0.00	0.69	0.00	1.05	0.39	0.84	0.13	0.00	0.00	6.05	0.52	6.57
1986	3.00	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	3.14	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	3.15	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	3.21	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	3.71	0.00	0.00	0.41	0.00	0.86	0.00	2.40	0.87	0.55	0.25	0.00	0.00	7.93	1.12	9.05
1991	3.57	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	3.97	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	4.37	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	4.53	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	4.35	0.00	0.00	0.64	0.00	0.92	0.00	4.05	0.83	0.63	0.35	0.00	0.00	10.59	1.18	11.77
1996	4.82	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1997	4.60	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	4.90	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	6.58	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	7.35	0.00	0.00	0.17	0.00	0.92	0.00	1.80	0.29	0.27	1.52	0.00	0.00	10.51	1.81	12.32

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 1. Freshwater withdrawals by category in Washington County, 1965-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Transfers	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1965	0.30	0.00	0.00	0.40	0.00	0.00	0.00	0.06	0.26	----	----	0.00	0.00	0.76	0.26	1.02
1966	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1967	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1968	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1969	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1970	0.40	0.00	0.00	0.92	0.00	0.00	0.00	0.02	0.00	----	----	0.00	0.00	1.34	0.00	1.34
1971	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1972	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1973	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1974	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1975	0.59	0.00	0.00	0.80	0.00	0.00	0.00	0.10	0.07	----	----	0.00	0.00	1.49	0.07	1.56
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	0.78	0.00	0.00	0.93	0.00	0.00	0.00	0.07	0.08	----	----	0.00	0.00	1.78	0.08	1.86
1978	0.81	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1980	0.92	0.00	0.00	0.94	0.00	0.04	0.00	0.02	0.07	----	----	0.00	0.00	1.92	0.07	1.99
1981	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	1.03	0.00	0.00	1.15	0.00	0.00	0.00	0.34	0.14	0.55	0.00	0.00	0.00	3.07	0.14	3.21
1986	1.00	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	1.00	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	1.03	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	1.09	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	1.18	0.00	0.00	1.65	0.00	0.01	0.00	0.19	0.11	0.22	0.00	0.00	0.00	3.25	0.11	3.36
1991	1.52	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	1.20	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	1.49	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	1.09	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	1.14	0.00	0.00	1.73	0.00	0.13	0.00	0.97	0.27	0.35	0.00	0.00	0.00	4.32	0.27	4.59
1996	1.13	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1997	1.13	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	1.16	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	1.09	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	1.16	0.00	0.00	1.42	0.00	0.22	0.00	1.13	0.00	0.39	0.00	0.00	0.00	4.32	0.00	4.32

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1965 through 1984.

Data sources; 1965-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

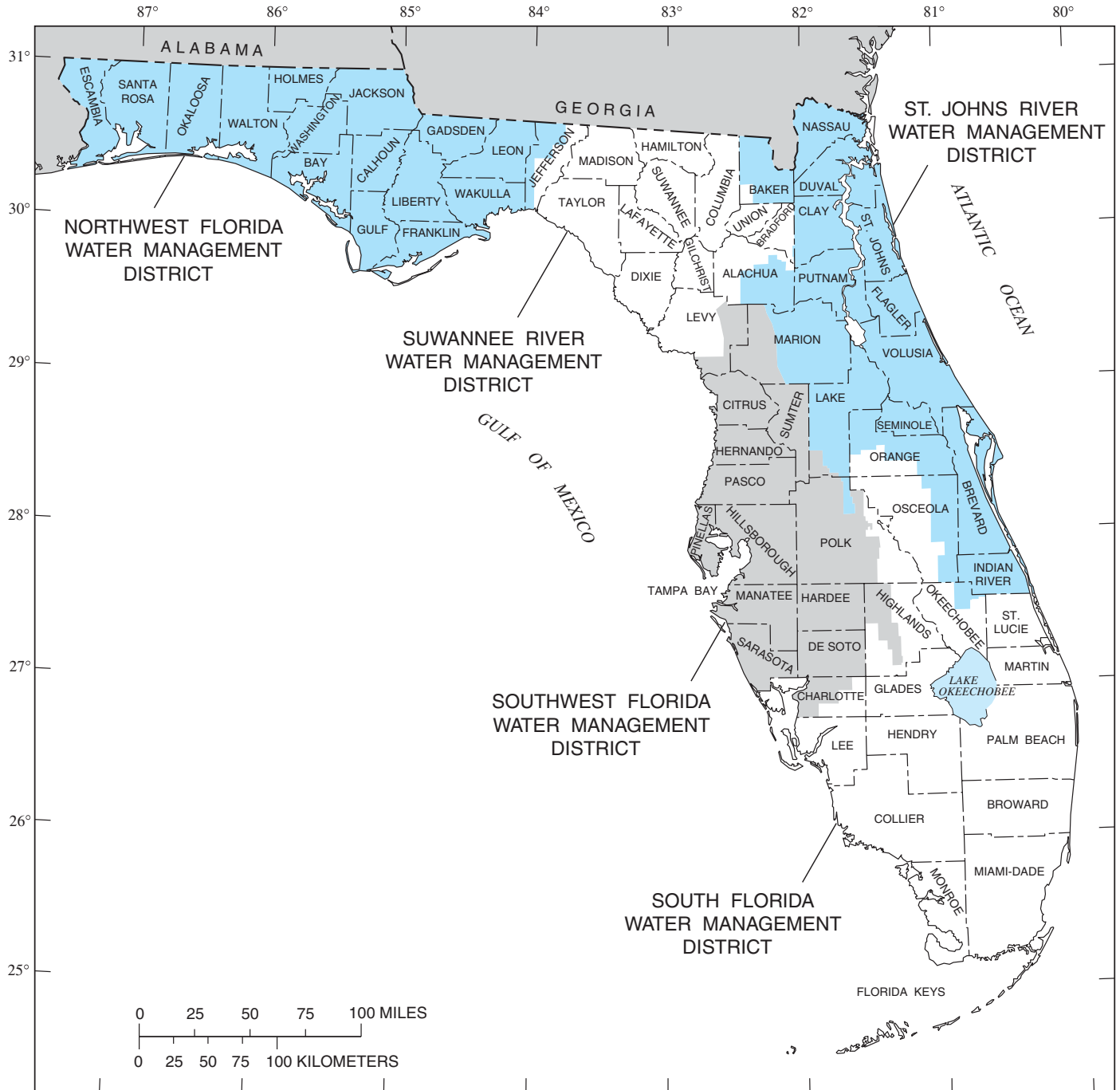
1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 2. Freshwater withdrawals by category for each Water Management District in Florida, 1975-2000

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Appendix 2. Freshwater withdrawals by category, Northwest Florida Water Management District, Florida, 1975-2000

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Treated	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1975	64.72	34.76	0.00	18.70	0.85	73.24	67.27	14.14	7.39	----	----	1.30	490.10	172.10	600.37	772.47
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	75.65	38.25	0.00	24.71	0.11	78.07	60.75	14.53	10.70	----	----	2.20	452.20	195.16	562.01	757.17
1978	75.44	38.95	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1980	79.23	37.75	0.00	24.73	0.10	65.22	70.91	25.43	13.21	----	----	7.76	540.30	202.37	662.27	864.64
1981	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	101.38	37.50	0.00	31.41	0.00	52.32	49.49	26.67	22.55	11.91	1.31	7.96	371.34	231.65	482.19	713.84
1986	104.92	43.08	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	107.84	40.83	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	112.45	41.55	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	112.26	40.06	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	117.03	41.40	0.00	31.95	0.00	52.27	53.69	46.23	20.03	15.24	1.18	8.13	350.22	270.85	466.52	737.37
1991	108.53	41.20	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	114.99	42.21	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	121.12	38.11	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	115.15	40.19	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	122.05	45.66	0.00	33.26	0.00	54.31	51.98	39.78	11.89	13.93	2.05	5.95	278.80	269.28	390.38	659.66
1996	123.85	43.01	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1997	123.96	46.37	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	136.47	38.45	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	135.79	47.26	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	145.90	46.17	0.00	21.75	0.00	51.86	26.30	36.32	9.94	18.57	4.50	6.41	317.80	280.81	404.71	685.52

Public supply treated includes water that does not meet public drinking water standards and is either treated through a desalination process or is diluted with fresher water to meet standards.

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1975 through 1984.

Data sources; 1975-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 2. Freshwater withdrawals by category, St. Johns River Water Management District, Florida, 1975-2000 (Continued)

[U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Treated	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1975	258.66	8.90	----	55.20	0.00	167.34	26.04	229.32	317.60	----	----	4.30	511.40	714.82	863.94	1,578.76
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	269.50	10.80	----	59.13	0.00	165.14	25.90	343.43	128.83	----	----	6.80	352.80	844.00	518.33	1,362.33
1978	239.35	9.46	----	75.28	0.00	158.71	21.00	440.82	226.40	----	----	3.99	306.70	918.15	563.56	1,481.71
1979	245.47	11.88	----	109.67	0.00	149.76	23.14	667.48	314.70	----	----	4.71	149.33	1,177.09	499.05	1,676.14
1980	281.90	12.97	----	85.37	0.00	137.79	25.57	416.91	190.77	----	----	4.94	117.39	926.91	346.70	1,273.61
1981	294.86	12.41	----	89.80	0.00	144.97	15.04	801.68	298.13	----	----	4.21	119.97	1,335.52	445.55	1,781.07
1982	280.19	11.33	----	88.20	0.00	128.82	40.87	484.01	214.76	----	----	4.05	117.27	985.27	384.23	1,369.50
1983	287.49	11.91	----	80.99	0.00	120.91	42.76	493.47	254.98	----	----	4.54	110.28	987.40	419.93	1,407.33
1984	318.85	13.21	----	87.72	0.00	137.33	12.91	492.58	261.32	----	----	4.55	88.32	1,041.03	375.76	1,416.79
1985	354.44	14.09	----	81.76	0.00	152.59	19.75	351.90	198.53	23.24	11.01	4.03	120.38	967.96	363.76	1,331.72
1986	366.52	15.47	----	82.33	0.00	127.96	20.50	370.90	201.53	32.43	13.11	4.71	129.01	984.85	379.62	1,364.47
1987	384.78	15.61	----	85.71	0.00	141.67	4.00	349.40	194.34	26.85	10.65	5.50	128.87	993.91	353.47	1,347.38
1988	393.14	16.15	----	86.73	0.00	146.11	4.00	375.95	219.11	25.46	10.40	6.29	129.49	1,033.68	379.15	1,412.83
1989	415.63	15.49	----	90.24	0.00	144.65	4.01	362.78	198.77	27.29	11.25	6.16	130.95	1,046.75	360.47	1,407.22
1990	427.90	16.24	4.51	85.98	0.00	126.09	10.27	347.41	214.08	27.20	10.79	6.75	206.56	1,021.33	457.94	1,479.27
1991	398.91	15.24	4.00	84.51	0.00	117.23	27.01	333.43	185.94	29.65	12.10	6.87	133.12	970.60	373.41	1,344.01
1992	409.80	14.83	4.07	84.92	0.00	109.82	38.38	344.25	280.35	12.03	5.41	6.18	130.25	967.00	469.22	1,436.22
1993	425.94	14.92	5.07	82.20	0.00	99.46	34.28	354.68	212.66	27.51	12.33	7.00	129.96	996.79	404.15	1,400.94
1994	418.35	15.71	4.25	85.35	0.00	90.79	35.08	357.76	210.28	27.23	12.29	12.11	130.26	991.59	403.62	1,395.21
1995	449.43	12.15	5.98	93.37	0.00	95.76	35.88	302.34	189.31	19.34	8.26	7.66	84.80	967.90	330.40	1,298.30
1996	475.07	11.07	6.54	86.05	0.00	108.19	17.99	313.27	189.30	28.20	12.23	19.07	17.71	1,029.85	248.30	1,278.15
1997	473.90	11.85	6.90	82.80	0.00	100.50	18.20	230.30	130.00	27.20	11.50	21.70	20.20	936.40	191.75	1,128.15
1998	517.82	12.15	7.38	88.25	0.00	97.03	34.49	417.26	197.30	32.77	13.69	7.89	19.27	1,161.02	276.90	1,437.92
1999	531.09	12.11	9.15	92.03	0.00	93.86	33.86	228.32	116.27	22.66	9.76	8.00	17.78	975.96	189.78	1,165.74
2000	558.51	14.08	6.23	51.70	0.00	90.64	31.80	392.33	214.20	72.66	31.94	10.86	144.53	1,176.70	436.55	1,613.25

Values presented in this table may not be identical to those reported or published by the water management district due to differences in data-collection procedures, categories of use, or revisions in reported or published values.

Public supply treated includes water that does not meet public drinking water standards and is either treated through a desalination process or is diluted with fresher water to meet standards.

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1975 through 1984.

Surface-water values for power generation for 1991-94 and 1996-99 do not include all of the fresh surface water withdrawn for power generation within the District.

Data sources; 1975-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - Published water-use data from the St. Johns River Water Management District, Palatka.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004) and St. Johns River Water Management District (2004).

Appendix 2. Freshwater withdrawals by category, South Florida Water Management District, Florida, 1975-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power Generation		Total freshwater withdrawn		
	Ground	Surface	Treated	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1975	513.78	42.83	----	48.99	1.20	18.26	54.35	576.63	1,274.71	----	----	1.36	0.00	1,159.02	1,373.09	2,532.11
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	549.11	39.62	----	42.90	0.90	22.73	55.14	675.70	1,288.23	----	----	1.89	0.00	1,292.33	1,383.89	2,676.22
1978	549.96	32.90	----	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1980	648.14	45.59	----	65.12	0.00	41.11	1.93	648.11	1,145.00	----	----	4.28	116.70	1,406.76	1,309.22	2,715.98
1981	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	746.22	37.37	10.82	59.92	0.00	48.80	1.56	498.53	1,020.45	47.91	46.23	0.68	24.50	1,402.06	1,130.11	2,532.17
1986	769.16	37.53	----	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	828.43	40.64	----	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	853.82	40.43	----	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	884.21	42.05	----	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	815.82	39.71	21.49	89.10	0.00	77.59	66.92	729.59	1,403.19	135.78	80.09	3.16	19.56	1,851.04	1,609.47	3,460.51
1991	848.46	40.80	17.69	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	897.46	40.85	18.78	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	913.97	38.72	24.81	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	923.13	37.93	35.74	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	933.59	39.38	37.29	74.81	0.00	66.58	54.52	696.84	1,496.75	127.43	59.37	2.80	19.28	1,902.05	1,669.30	3,571.35
1996	959.47	42.52	43.28	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1997	953.10	43.60	43.03	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1998	1,003.41	48.67	50.19	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1999	1,019.45	48.05	54.76	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
2000	1,070.28	49.24	73.66	52.43	0.00	88.83	35.18	784.37	1,682.22	86.21	123.68	2.95	24.63	2,085.07	1,914.95	4,000.02

Public supply treated includes water that does not meet public drinking water standards and is either treated through a desalination process or is diluted with fresher water to meet standards.

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1975 through 1984.

Data sources; 1975-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).

Appendix 2. Freshwater withdrawals by category, Southwest Florida Water Management District, Florida, 1975-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Treated	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1975	136.26	76.49	----	68.81	0.00	390.93	9.95	453.29	37.95	----	----	0.76	418.70	1,050.05	543.09	1,593.14
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	153.95	84.15	----	54.52	0.00	343.77	7.40	414.28	37.13	----	----	0.80	334.08	967.32	462.76	1,430.08
1978	176.36	72.77	----	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	194.95	72.04	----	45.15	0.00	344.27	31.51	408.87	23.70	----	----	0.80	307.80	994.04	435.05	1,429.09
1980	205.85	84.13	----	44.38	0.00	281.47	6.44	417.82	18.41	----	----	0.87	298.60	950.39	407.58	1,357.97
1981	222.29	96.06	----	45.64	0.00	289.50	24.16	582.55	31.06	----	----	1.13	392.00	1,141.11	543.28	1,684.39
1982	267.15	87.32	----	38.80	0.00	262.85	12.19	428.23	20.54	----	----	3.70	251.53	1,000.73	371.58	1,372.31
1983	256.30	89.78	----	57.97	0.00	251.02	2.71	438.23	22.29	----	----	3.60	175.69	1,007.12	290.47	1,297.59
1984	278.61	89.45	----	65.02	0.00	279.80	5.94	653.96	30.25	----	----	4.91	75.34	1,282.30	200.98	1,483.28
1985	286.50	104.65	7.86	62.88	0.00	284.87	1.14	592.50	27.92	35.67	3.29	3.24	80.59	1,264.66	217.59	1,482.25
1986	288.30	96.26	----	47.84	0.00	243.19	0.00	613.54	32.06	----	----	2.91	188.25	1,195.78	316.57	1,512.35
1987	298.97	104.01	----	69.08	0.00	267.60	0.06	472.78	24.80	----	----	2.79	116.53	1,111.22	245.40	1,356.62
1988	317.49	115.01	----	67.20	0.00	318.65	8.62	543.00	36.26	----	----	3.45	87.83	1,249.79	247.72	1,497.51
1989	327.54	120.17	18.19	84.36	0.00	319.31	4.84	624.69	69.45	----	----	2.01	63.49	1,357.91	257.95	1,615.86
1990	323.88	128.98	21.04	76.19	0.00	189.36	99.74	573.17	59.37	22.07	13.46	2.98	75.87	1,187.65	377.42	1,565.07
1991	334.49	143.58	19.84	32.18	0.00	147.35	228.58	486.77	85.26	23.52	33.65	2.20	1.36	1,026.51	492.43	1,518.94
1992	348.37	141.13	19.36	37.29	0.00	159.01	193.47	514.83	68.14	29.65	21.51	0.65	1.52	1,089.80	425.77	1,515.57
1993	337.03	123.15	23.64	90.00	0.00	138.72	102.52	433.92	20.29	37.57	20.07	1.16	0.11	1,038.40	266.14	1,304.54
1994	334.50	113.15	18.50	79.25	0.00	133.64	100.49	424.33	19.10	36.67	17.97	2.08	0.00	1,010.47	250.71	1,261.18
1995	336.21	112.51	14.55	72.24	0.00	127.52	107.35	408.19	15.70	34.68	14.82	2.70	118.79	981.54	369.17	1,350.71
1996	349.55	112.37	15.68	65.12	0.00	94.78	80.05	489.41	19.38	40.68	20.06	3.57	1.50	1,043.11	233.36	1,276.47
1997	363.68	119.22	16.04	71.89	0.00	122.77	67.62	465.07	17.80	45.32	21.54	3.81	1.88	1,072.54	228.06	1,300.60
1998	383.85	119.11	17.49	48.10	0.00	120.26	66.22	499.77	20.08	41.94	19.10	4.11	1.96	1,098.03	226.47	1,324.50
1999	385.94	132.02	16.84	50.62	0.00	115.69	57.45	524.79	19.36	48.29	18.97	6.36	2.07	1,131.69	229.87	1,361.56
2000	408.88	127.94	15.40	52.74	0.00	117.52	34.40	683.06	24.83	51.95	20.79	6.77	40.76	1,320.92	248.72	1,569.64

Values presented in this table may not be identical to those reported or published by the water management district due to differences in data-collection procedures, categories of use, or revisions in reported or published values.

Public supply treated includes water that does not meet public drinking water standards and is either treated through a desalination process or is diluted with fresher water to meet standards. Water withdrawals for mining operations were classified as ground water between 1965 and 1990, and were re-classified as surface water beginning in 1991.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1975-1984 and 1986-1989.

Surface-water values for power generation for 1991-94 and 1996-99 do not include all of the fresh surface water withdrawn for power generation within the District.

Data sources; 1975-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, and 1996-1999 - published water-use data, Southwest Florida Water Management District, Brooksville.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004) and Southwest Florida Water Management District (2002).

Appendix 2. Freshwater withdrawals by category, Suwannee River Water Management District, Florida, 1975-2000 (Continued)

[Compiled by the U.S. Geological Survey, Tallahassee, all values in million gallons per day; ----, no or partial data were available; N/A, totals not available]

Year	Public supply			Domestic self-supplied		Commercial-industrial-mining		Agricultural		Recreational irrigation		Power generation		Total freshwater withdrawn		
	Ground	Surface	Treated	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Total
1975	9.42	0.00	0.00	9.23	0.00	95.60	3.09	16.46	3.01	----	----	0.61	172.80	131.32	178.90	310.22
1976	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1977	10.86	0.00	0.00	10.53	0.00	93.97	4.30	29.32	4.48	----	----	1.11	172.80	145.79	181.58	327.37
1978	11.45	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1979	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1980	11.05	0.00	0.00	13.35	0.00	94.18	0.00	23.26	5.87	----	----	0.94	172.80	142.78	178.67	321.45
1981	10.88	0.00	0.00	14.90	0.00	96.93	0.00	30.63	7.78	----	----	1.00	172.80	154.34	180.58	334.92
1982	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1983	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1984	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1985	12.26	0.00	0.00	24.32	0.00	93.50	5.34	58.98	1.70	0.00	0.00	2.83	64.95	191.89	71.99	263.88
1986	12.81	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1987	13.16	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1988	12.84	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1989	14.56	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1990	14.19	0.00	0.00	24.75	0.00	97.01	3.20	80.27	4.04	0.65	0.00	2.19	108.51	219.06	115.75	334.81
1991	13.37	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1992	13.66	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1993	13.75	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1994	13.47	0.00	0.00	----	----	----	----	----	----	----	----	----	----	N/A	N/A	N/A
1995	14.29	0.00	0.00	23.06	0.00	93.95	3.98	80.37	2.93	1.00	0.00	2.27	113.21	214.94	120.12	335.06
1996	14.48	0.00	0.00	----	----	87.22	3.82	----	----	----	----	2.56	97.60	N/A	N/A	N/A
1997	14.53	0.00	0.00	----	----	84.08	3.74	----	----	----	----	2.44	120.00	N/A	N/A	N/A
1998	15.51	0.00	0.00	----	----	79.73	4.08	----	----	----	----	2.41	116.89	N/A	N/A	N/A
1999	15.36	0.00	0.00	----	----	84.49	1.73	----	----	----	----	2.50	122.93	N/A	N/A	N/A
2000	15.79	0.00	0.00	20.06	0.00	81.85	4.92	93.87	1.87	1.06	0.37	2.54	101.01	215.17	108.17	323.34

Public supply treated includes water that does not meet public drinking water standards and is either treated through a desalination process or is diluted with fresher water to meet standards.

The procedure used to estimate domestic self-supplied withdrawals changed for 2000 from previous years as a different per capita was used to calculate withdrawals.

Agricultural includes water withdrawn for crop irrigation, livestock, and fish farming purposes.

Recreational includes water used for all turf grass (golf, commercial, industrial, and public) irrigation. This category was accounted for under Agricultural from 1975 through 1984.

Data sources; 1975-1990 - Modified from USGS Open-File Report 94-521 (Marella, 1995).

1991-1994, 1996-1999 - USGS unpublished water-use data files, Tallahassee.

1995 - USGS Water-Resources Investigations Report 99-4002 (Marella, 1999).

2000 - USGS Scientific Investigations Report 2004-5151 (Marella, 2004).