

Water Supply Assessment
Public Supply Population and Demand Projections
Southwest Florida Water Management District
04/21/2009 DRAFT RWSP Update

Table 1. County-Wide Permanent Population Projections

County	BEBR Medium Permanent Population ¹						Permanent Population ²					
	2005	2010	2015	2020	2025	2030	2005	2010	2015	2020	2025	2030
Charlotte	154,030	169,700	183,300	195,900	208,000	219,300	153,907	157,630	170,638	182,854	194,673	205,746
Citrus	132,635	145,000	158,200	170,300	182,000	192,900	130,897	145,000	158,200	170,300	182,001	192,901
DeSoto	32,606	34,700	37,500	39,200	40,700	42,100	31,638	34,700	37,500	39,200	40,700	42,100
Hardee	27,333	27,700	28,300	28,700	29,200	29,600	26,311	27,909	28,300	28,700	29,200	29,600
Hernando	150,784	169,100	187,800	205,100	221,900	237,600	150,784	169,100	187,800	205,100	221,900	237,600
Highlands	93,456	101,600	109,400	116,500	123,400	129,800	92,337	101,600	109,400	116,500	123,400	129,800
Hillsborough	1,131,546	1,234,900	1,346,600	1,449,900	1,549,900	1,643,400	1,131,546	1,234,867	1,346,566	1,449,865	1,549,863	1,643,359
Lake	263,017	303,500	347,900	389,500	430,200	468,700	286,409	293,428	336,371	377,467	417,708	455,481
Levy	37,985	41,400	45,200	48,600	52,000	55,100	36,958	41,400	45,200	48,600	51,999	55,099
Manatee	304,364	327,500	358,400	387,000	414,600	440,500	304,364	331,945	362,887	391,502	419,104	445,026
Marion	304,926	340,500	381,400	419,300	456,300	491,100	301,082	331,354	372,258	410,180	447,213	482,023
Pasco	406,898	454,200	507,400	556,600	604,500	649,500	406,898	454,233	507,434	556,636	604,537	649,541
Pinellas	947,744	950,300	966,900	982,200	997,000	1,010,900	947,744	950,300	966,900	982,200	991,854	991,854
Polk	541,840	602,500	660,500	713,900	765,500	813,800	541,307	602,500	660,500	713,900	765,500	813,800
Sarasota	367,867	400,600	436,100	468,800	500,300	529,800	367,867	408,225	444,275	477,345	509,123	538,828
Sumter	74,052	97,400	117,400	136,100	154,500	172,100	74,052	109,938	117,395	136,074	154,439	172,028
Total	4,971,083	5,400,600	5,872,300	6,307,600	6,730,000	7,126,200	4,984,101	5,394,129	5,851,624	6,286,423	6,703,214	7,084,786

Reference Sources for County-Wide Permanent and Permanent Population Projections

¹Source for years 2005 - 2030 BEBR Estimates from "Projections of Florida Population by County, 2007-2035," BEBR, March 2008.

²Source for years 2005 - 2030 is based on GIS Associates Population Projection Model, "The Small Area Population Projection Methodology of the Southwest Florida Water Management District," GIS Associates, February 2009.

Water Supply Assessment
Public Supply Population and Demand Projections
Southwest Florida Water Management District
04/21/2009 DRAFT RWSP Update

Table 2. County-Wide Functional Population Projections

County	Share in District ¹	Permanent Population in SWFWMD ¹						Functional Population in SWFWMD ²					
		2005	2010	2015	2020	2025	2030	2005	2010	2015	2020	2025	2030
Charlotte	0.9976	153,657	157,101	170,082	182,273	194,077	205,137	162,671	175,816	189,429	202,145	214,363	225,749
Citrus	1	130,897	145,000	158,200	170,300	182,001	192,901	132,265	164,429	178,835	192,031	204,752	216,608
DeSoto	1	31,638	34,700	37,500	39,200	40,700	42,100	31,638	37,490	40,544	42,415	44,072	45,622
Hardee	1	26,311	27,909	28,300	28,700	29,200	29,600	26,311	31,314	31,791	32,269	32,854	33,133
Hernando	1	150,784	169,100	187,800	205,100	221,900	237,600	154,953	176,258	194,019	211,789	228,102	245,301
Highlands	0.9106	85,096	93,247	100,036	106,291	112,361	117,969	86,412	98,650	105,460	111,272	117,408	123,226
Hillsborough	1	1,131,546	1,234,867	1,346,566	1,449,865	1,549,863	1,643,359	1,213,686	1,348,606	1,434,725	1,509,970	1,606,703	1,703,255
Lake	0.0025	658	720	741	764	780	805	658	720	741	764	780	805
Levy	0.5781	21,368	23,817	26,117	28,243	30,433	32,460	21,368	26,290	28,722	30,974	33,289	35,431
Manatee	1	304,364	331,945	362,887	391,502	419,104	445,026	350,230	412,567	444,689	474,744	503,511	530,600
Marion	0.296	87,860	104,849	123,646	140,420	158,805	177,888	87,860	114,119	134,553	152,349	171,512	191,348
Pasco	1	406,898	454,233	507,434	556,636	604,537	649,541	448,078	514,949	565,435	618,797	670,967	720,105
Pinellas	1	947,744	950,300	966,900	982,200	991,854	991,854	1,075,131	1,116,794	1,135,743	1,154,104	1,166,060	1,166,995
Polk	0.9361	507,199	560,968	612,046	660,973	707,476	750,697	537,474	688,177	784,575	868,211	948,874	1,031,367
Sarasota	1	367,867	408,225	444,275	477,345	509,123	538,828	410,161	445,027	484,873	521,069	555,859	593,617
Sumter	1	74,052	109,938	117,395	136,074	154,439	172,028	82,371	125,948	144,047	172,243	183,881	203,536
Total		4,427,939	4,806,919	5,189,925	5,555,886	5,906,653	6,227,793	4,821,267	5,477,154	5,898,181	6,295,146	6,682,987	7,066,698

Reference Sources for County-Wide Permanent in SWFWMD and Functional Population Projections

¹From Table A-1 of "Estimates of 2005 Census Populations by Political and Geographic Boundaries of the Southwest Florida Water Management District," GIS Associates, February 2008.

²Source for years 2005 - 2030 is based on GIS Associates Population Projection Model, "The Small Area Population Projection Methodology of the Southwest Florida Water Management District," GIS Associates, February 2009.

Water Supply Assessment
Public Supply Population and Demand Projections
Southwest Florida Water Management District
04/21/2009 DRAFT RWSP Update

TABLE 3. CHARLOTTE COUNTY POPULATION ESTIMATES AND PROJECTIONS

	(1)	(2)	(3)					(4)	(5)				
	ESTIMATED 2005 POP	ESTIMATED 2005 WITHDRAWAL (MGD)	2010	2015	2020	2025	2030	2003-2007 AVG GPCD	2010	2015	2020	2025	2030
(6) Domestic-Self Supply	27,152	2.389	31,656	35,121	38,482	41,704	44,878	88	2.786	3.091	3.386	3.670	3.949
(8) Small Utility	1,595	0.179	1,623	1,651	1,667	1,673	1,676	112	0.182	0.185	0.187	0.187	0.188
Gasparilla Island Water Assoc. (718)	3,602	0.998	5,137	5,200	5,224	5,239	5,249	277	1.423	1.440	1.447	1.451	1.454
City of Punta Gorda (871)	31,718	4.187	37,064	39,371	41,214	42,503	43,327	132	4.892	5.197	5.440	5.610	5.719
Charlotte Harbor Water Assoc. (1512)	4,607	0.332	5,152	5,496	5,800	6,076	6,352	72	0.371	0.396	0.418	0.437	0.457
Charlotte County Utilities / Burnt Store (3522)	5,662	0.487	6,120	6,440	6,818	7,260	7,769	86	0.526	0.554	0.586	0.624	0.668
Charlotte County Utilities (7104)	87,977	8.358	88,706	95,722	102,431	109,327	115,882	95	8.427	9.094	9.731	10.386	11.009
Island Harbor Beach Club (7768)	358	0.039	358	428	509	581	616	109	0.039	0.047	0.055	0.063	0.067
(9) Additional Irrigation Demand	4,099	1.230	4,430	4,773	5,093	5,401	5,688		1.329	1.432	1.528	1.620	1.706
Total County	162,671	18.198	175,816	189,429	202,145	214,363	225,749		19.975	21.435	22.779	24.051	25.218
(7) 1-10 Drought Year Demand									21.174	22.721	24.146	25.494	26.731

Notes:

MGD = million gallons per day

(1) From SWFWMD, *2005 Estimated Water Use Report, Table A-1 (June 2007)*.

(2) Estimated using average 2003-2007 GPCD, as provided in Table A-1 of the District's reports titled *Estimated Water Use, 2003-2007*.

(3) Projected County Population source for years 2010-2030 are utility specific projections based on GIS Associates Population Projection Model, "The Small Area Population Projection Methodology of the Southwest Florida Water Management District," GIS Associates, February 2009.

(4) For utilities with at least 0.1 mgd average annual withdrawal (i.e., the utilities individually listed in the table), year 2003-2007 average estimated per capita water use rates, as provided in Table A-1 of the District's reports titled *Estimated Water Use, 2003-2007* were used to project demands. See footnotes 6 and 8 for descriptions of the per capita used for the Domestic Self-Supply and Small Utility.

(5) Computed as projected population multiplied by 2001-2005 average per capita water use.

(6) County residential per capita rate from the District's reports titled *Estimated Water Use, 2003-2007* was used to calculate average estimated 2003-2007 usage, Table A-2. If a county residential per capita rate was not available, the District's 2003-2007 average residential per capita rate was used.

(7) 1-10 Drought Year Demand is calculated as 1.06 x Projected Future Water Use.

(8) Small Utility population is the "Additional Population" of Table 1, *2005 Estimated Water Use, District (June 2007)*. Small Utility 2005 Population Unit Use (Per Capita) is defined as follows: [the sum of "Estimated Water Use" and "Reported Water Use" on Table 1] divided by [the "Additional Population" from Table 1] of the District's reports titled *Estimated Water Use (2003-2007)*.

(9) Additional Irrigation Demand is defined as water demand from residential irrigation wells utilized by residents that depend upon a centralized system for indoor water needs. See attached table.

Water Supply Assessment
Public Supply Population and Demand Projections
Southwest Florida Water Management District
04/21/2009 DRAFT RWSP Update

TABLE 4. CITRUS COUNTY POPULATION ESTIMATES AND PROJECTIONS

	(1)	(2)	(3)					(4)	(5)				
	ESTIMATED 2005 POP	ESTIMATED 2005 WITHDRAWAL (MGD)	2010	2015	2020	2025	2030	2003-2007 AVG GPCD	2010	2015	2020	2025	2030
(6) Domestic-Self Supply	40,478	5.060	40,835	41,192	41,586	42,224	43,171	125	5.104	5.149	5.198	5.278	5.396
(8) Small Utility	5,842	1.034	6,035	6,317	6,441	6,547	6,665	177	1.068	1.118	1.140	1.159	1.180
City of Crystal River (207)	3,685	0.652	12,132	12,582	12,915	13,332	13,773	177	2.147	2.227	2.286	2.360	2.438
City of Inverness (419)	9,300	1.535	24,457	26,126	27,628	29,324	31,368	165	4.035	4.311	4.559	4.838	5.176
Floral City Water Association (1118)	5,668	0.317	6,876	7,169	7,371	7,574	7,850	56	0.385	0.401	0.413	0.424	0.440
Citrus Co. Water Resources / Citrus Springs (2842)	13,080	2.367	14,894	17,567	21,036	25,031	29,119	181	2.696	3.180	3.808	4.531	5.271
Rolling Oaks Utilities Inc (4153)	12,242	2.179	12,653	12,700	12,704	12,726	12,777	178	2.252	2.261	2.261	2.265	2.274
Homasassa Special Water District (4406)	6,075	0.790	6,488	7,013	7,588	7,972	8,353	130	0.843	0.912	0.986	1.036	1.086
Gulf Highway Land Corporation (6691)	578	0.083	590	646	760	816	819	143	0.084	0.092	0.109	0.117	0.117
Citrus Co. & Withlacoochee RWSA (7121)	23,917	4.712	27,851	33,977	38,126	41,608	44,462	197	5.487	6.693	7.511	8.197	8.759
Citrus County Water Resources / Oak Forest (7879)	415	0.049	424	426	426	430	440	119	0.050	0.051	0.051	0.051	0.052
Citrus County Water Resources / Sugarmill (9791)	9,659	2.183	9,743	11,552	13,769	15,373	15,903	226	2.202	2.611	3.112	3.474	3.594
Walden Woods LTD (11839)	752	0.142	832	945	1,058	1,171	1,284	189	0.157	0.179	0.200	0.221	0.243
Citrus Co. Water Resources / Lakeside Estates (13219)	574	0.075	619	623	623	624	624	130	0.080	0.081	0.081	0.081	0.081
(9) Additional Irrigation Demand	2,745	0.824	3,146	3,712	3,986	4,250	4,496		0.944	1.113	1.196	1.275	1.349
Total County	132,265	22.001	164,429	178,835	192,031	204,752	216,608		27.537	30.379	32.910	35.308	37.455
(7) 1-10 Drought Year Demand									29.189	32.201	34.884	37.426	39.702

Notes:

MGD = million gallons per day

(1) From SWFWMD, 2005 Estimated Water Use Report, Table A-1 (June 2007).

(2) Estimated using average 2003-2007 GPCD, as provided in Table A-1 of the District's reports titled *Estimated Water Use, 2003-2007*.

(3) Projected County Population source for years 2010-2030 are utility specific projections based on GIS Associates Population Projection Model, "The Small Area Population Projection Methodology of the Southwest Florida Water Management District," GIS Associates, February 2009.

(4) For utilities with at least 0.1 mgd average annual withdrawal (i.e., the utilities individually listed in the table), year 2003-2007 average estimated per capita water use rates, as provided in Table A-1 of the District's reports titled *Estimated Water Use, 2003-2007* were used to project demands. See footnotes 6 and 8 for descriptions of the per capita used for the Domestic Self-Supply and Small Utility.

(5) Computed as projected population multiplied by 2001-2005 average per capita water use.

(6) County residential per capita rate from the District's reports titled *Estimated Water Use, 2003-2007* was used to calculate average estimated 2003-2007 usage, Table A-2. If a county residential per capita rate was not available, the District's 2003-2007 average residential per capita rate was used.

(7) 1-10 Drought Year Demand is calculated as 1.06 x Projected Future Water Use.

(8) Small Utility population is the "Additional Population" of Table 1, 2005 Estimated Water Use, District (June 2007). Small Utility 2005 Population Unit Use (Per Capita) is defined as follows: [the sum of "Estimated Water Use" and "Reported Water Use" on Table 1] divided by [the "Additional Population" from Table 1] of the District's reports titled *Estimated Water Use (2003-2007)*.

(9) Additional Irrigation Demand is defined as water demand from residential irrigation wells utilized by residents that depend upon a centralized system for indoor water needs. See attached table.

Water Supply Assessment
Public Supply Population and Demand Projections
Southwest Florida Water Management District
04/21/2009 DRAFT RWSP Update

TABLE 5. DESOTO COUNTY POPULATION ESTIMATES AND WATER DEMAND PROJECTIONS

	(1)	(2)	(3)					(4)	(5)				
	ESTIMATED 2005 POP	ESTIMATED 2005 WITHDRAWAL (MGD)	2010	2015	2020	2025	2030	2003-2007 AVG GPCD	2010	2015	2020	2025	2030
(6) Domestic-Self Supply	19,887	1.591	19,968	21,958	23,349	24,643	25,874	80	1.597	1.757	1.868	1.971	2.070
(8) Small Utility	1,188	0.140	1,264	1,366	1,428	1,483	1,534	118	0.149	0.161	0.169	0.175	0.181
City of Arcadia (4725)	8,942	1.091	10,432	10,636	10,756	10,842	10,925	122	1.273	1.298	1.312	1.323	1.333
PRMRWSA / Lake Suzy (10420)	1,621	0.139	5,826	6,584	6,882	7,104	7,289	86	0.501	0.566	0.592	0.611	0.627
(9) Additional Irrigation Demand	626	0.188	695	802	839	871	902		0.208	0.240	0.252	0.261	0.271
Total County	31,638	3.149	37,490	40,544	42,415	44,072	45,622		3.729	4.022	4.192	4.342	4.481
(7) 1-10 Drought Year Demand									3.953	4.263	4.444	4.602	4.750

Notes:

MGD = million gallons per day

(1) From SWFWMD, *2005 Estimated Water Use Report, Table A-1 (June 2007)*.

(2) Estimated using average 2003-2007 GPCD, as provided in Table A-1 of the District's reports titled *Estimated Water Use, 2003-2007*.

(3) Projected County Population source for years 2010-2030 are utility specific projections based on GIS Associates Population Projection Model, "The Small Area Population Projection Methodology of the Southwest Florida Water Management District," GIS Associates, February 2009.

(4) For utilities with at least 0.1 mgd average annual withdrawal (i.e., the utilities individually listed in the table), year 2003-2007 average estimated per capita water use rates, as provided in Table A-1 of the District's reports titled *Estimated Water Use, 2003-2007* were used to project demands. See footnotes 6 and 8 for descriptions of the per capita used for the Domestic Self-Supply and Small Utility.

(5) Computed as projected population multiplied by 2001-2005 average per capita water use.

(6) County residential per capita rate from the District's reports titled *Estimated Water Use, 2003-2007* was used to calculate average estimated 2003-2007 usage, Table A-2. If a county residential per capita rate was not available, the District's 2003-2007 average residential per capita rate was used.

(7) 1-10 Drought Year Demand is calculated as 1.06 x Projected Future Water Use.

(8) Small Utility population is the "Additional Population" of Table 1, *2005 Estimated Water Use, District (June 2007)*. Small Utility 2005 Population Unit Use (Per Capita) is defined as follows: [the sum of "Estimated Water Use" and "Reported Water Use" on Table 1] divided by [the "Additional Population" from Table 1] of the District's reports titled *Estimated Water Use (2003-2007)*.

(9) Additional Irrigation Demand is defined as water demand from residential irrigation wells utilized by residents that depend upon a centralized system for indoor water needs. See attached table.

Water Supply Assessment
Public Supply Population and Demand Projections
Southwest Florida Water Management District
04/21/2009 DRAFT RWSP Update

TABLE 6. HARDEE COUNTY POPULATION ESTIMATES AND WATER DEMAND PROJECTIONS

	(1)	(2)	(3)					(4)	(5)				
	ESTIMATED 2005 POP	ESTIMATED 2005 WITHDRAWAL (MGD)	PROJECTED POPULATION					2003-2007 AVG GPCD	PROJECTED WATER DEMANDS (MGD)				
			2010	2015	2020	2025	2030		2010	2015	2020	2025	2030
(6) Domestic-Self Supply	13,793	1.076	14,050	14,307	14,580	14,930	15,219	78	1.096	1.116	1.137	1.165	1.187
(8) Small Utility	1,314	0.171	1,332	1,360	1,380	1,404	1,423	130	0.173	0.177	0.179	0.183	0.185
City of Bowling Green (30)	3,072	0.276	3,408	3,416	3,424	3,432	3,238	90	0.307	0.307	0.308	0.309	0.291
City of Wauchula (4461)	6,075	0.954	6,825	6,910	6,995	7,097	7,182	157	1.072	1.085	1.098	1.114	1.128
Town of Zolfo Springs (7658)	1,662	0.223	2,177	2,191	2,202	2,212	2,219	134	0.292	0.294	0.295	0.296	0.297
Hardee County / Wauchula Hills (13026)	395	0.062	3,522	3,607	3,688	3,779	3,852	157	0.553	0.566	0.579	0.593	0.605
(9) Additional Irrigation Demand	597	0.179	711	722	732	746	752		0.213	0.216	0.220	0.224	0.226
Total County	26,311	2.941	31,314	31,791	32,269	32,854	33,133		3.705	3.761	3.817	3.884	3.919
(7) 1-10 Drought Year Demand									3.928	3.987	4.046	4.117	4.154

Notes:

MGD = million gallons per day

(1) From SWFWMD, 2005 Estimated Water Use Report, Table A-1 (June 2007).

(2) Estimated using average 2003-2007 GPCD, as provided in Table A-1 of the District's reports titled *Estimated Water Use, 2003-2007*.

(3) Projected County Population source for years 2010-2030 are utility specific projections based on GIS Associates Population Projection Model, "The Small Area Population Projection Methodology of the Southwest Florida Water Management District," GIS Associates, February 2009.

(4) For utilities with at least 0.1 mgd average annual withdrawal (i.e., the utilities individually listed in the table), year 2003-2007 average estimated per capita water use rates, as provided in Table A-1 of the District's reports titled *Estimated Water Use, 2003-2007* were used to project demands. See footnotes 6 and 8 for descriptions of the per capita used for the Domestic Self-Supply and Small Utility.

(5) Computed as projected population multiplied by 2001-2005 average per capita water use.

(6) County residential per capita rate from the District's reports titled *Estimated Water Use, 2003-2007* was used to calculate average estimated 2003-2007 usage, Table A-2. If a county residential per capita rate was not available, the District's 2003-2007 average residential per capita rate was used.

(7) 1-10 Drought Year Demand is calculated as 1.06 x Projected Future Water Use.

(8) Small Utility population is the "Additional Population" of Table 1, 2005 Estimated Water Use, District (June 2007). Small Utility 2005 Population Unit Use (Per Capita) is defined as follows: [the sum of "Estimated Water Use" and "Reported Water Use" on Table 1] divided by [the "Additional Population" from Table 1] of the District's reports titled *Estimated Water Use (2003-2007)*.

(9) Additional Irrigation Demand is defined as water demand from residential irrigation wells utilized by residents that depend upon a centralized system for indoor water needs. See attached table.

Water Supply Assessment
Public Supply Population and Demand Projections
Southwest Florida Water Management District
04/21/2009 DRAFT RWSP Update

TABLE 7. HERNANDO COUNTY POPULATION ESTIMATES AND WATER DEMAND PROJECTIONS

	(1)	(2)	(3)					(4)	(5)				
	ESTIMATED 2005 POP	ESTIMATED 2005 WITHDRAWAL (MGD)	2010	2015	2020	2025	2030	2003-2007 AVG GPCD	2010	2015	2020	2025	2030
(6) Domestic-Self Supply	9,482	1.252	17,379	19,385	25,535	34,406	43,332	132	2.294	2.559	3.371	4.542	5.720
(8) Small Utility	3,405	0.555	3,819	4,241	4,632	5,011	5,365	163	0.622	0.691	0.755	0.817	0.874
Hernando County Water and Sewer (*)	129,476	22.140	138,820	153,193	163,548	169,451	176,076	171	23.738	26.196	27.967	28.976	30.109
City of Brooksville (7627)	12,590	1.397	16,240	17,200	18,074	19,234	20,528	111	1.803	1.909	2.006	2.135	2.279
(9) Additional Irrigation Demand	9,334	2.800	10,618	11,688	12,758	13,741	14,777		3.185	3.506	3.827	4.122	4.433
Total County	154,953	28.145	176,258	194,019	211,789	228,102	245,301		31.643	34.862	37.926	40.592	43.415
(7) 1-10 Drought Year Demand									33.541	36.953	40.202	43.027	46.020

Notes:

MGD = million gallons per day

(1) From SWFWMD, *2005 Estimated Water Use Report, Table A-1 (June 2007)*.

(2) Estimated using average 2003-2007 GPCD, as provided in Table A-1 of the District's reports titled *Estimated Water Use, 2003-2007*.

(3) Projected County Population source for years 2010-2030 are utility specific projections based on GIS Associates Population Projection Model, "The Small Area Population Projection Methodology of the Southwest Florida Water Management District," GIS Associates, February 2009.

(4) For utilities with at least 0.1 mgd average annual withdrawal (i.e., the utilities individually listed in the table), year 2003-2007 average estimated per capita water use rates, as provided in Table A-1 of the District's reports titled *Estimated Water Use, 2003-2007* were used to project demands. See footnotes 6 and 8 for descriptions of the per capita used for the Domestic Self-Supply and Small Utility.

(5) Computed as projected population multiplied by 2001-2005 average per capita water use.

(6) County residential per capita rate from the District's reports titled *Estimated Water Use, 2003-2007* was used to calculate average estimated 2003-2007 usage, Table A-2. If a county residential per capita rate was not available, the District's 2003-2007 average residential per capita rate was used.

(7) 1-10 Drought Year Demand is calculated as 1.06 x Projected Future Water Use.

(8) Small Utility population is the "Additional Population" of Table 1, *2005 Estimated Water Use, District (June 2007)*. Small Utility 2005 Population Unit Use (Per Capita) is defined as follows: [the sum of "Estimated Water Use" and "Reported Water Use" on Table 1] divided by [the "Additional Population" from Table 1] of the District's reports titled *Estimated Water Use (2003-2007)*.

(9) Additional Irrigation Demand is defined as water demand from residential irrigation wells utilized by residents that depend upon a centralized system for indoor water needs. See attached table.

*Includes Permit #s 2179, 2983, 5789, 5817, 12011, 13286.

Water Supply Assessment
Public Supply Population and Demand Projections
Southwest Florida Water Management District
04/21/2009 DRAFT RWSP Update

TABLE 8. HIGHLANDS COUNTY POPULATION ESTIMATES AND WATER DEMAND PROJECTIONS

	(1)	(2)	(3)					(4)	(5)				
	ESTIMATED 2005 POP	ESTIMATED 2005 WITHDRAWAL (MGD)	2010	2015	2020	2025	2030	2003-2007 AVG GPD	2010	2015	2020	2025	2030
(6) Domestic-Self Supply	6,730	0.478	8,718	9,770	10,640	11,693	13,310	71	0.619	0.694	0.755	0.830	0.945
(8) Small Utility	6,353	0.692	6,907	7,437	7,919	8,389	8,824	109	0.753	0.811	0.863	0.914	0.962
Lake Josephine Heights Water (4167,11768)	1,431	0.116	1,454	1,523	1,593	1,668	1,737	81	0.118	0.123	0.129	0.135	0.141
City of Sebring (4492)	33,546	3.288	37,200	39,472	41,675	43,738	45,721	98	3.646	3.868	4.084	4.286	4.481
Lake Placid Holding Company (4980)	3,085	0.275	3,369	3,718	3,718	3,718	3,718	89	0.300	0.331	0.331	0.331	0.331
Town of Lake Placid (5270)	4,040	0.578	4,098	4,337	4,528	4,690	4,840	143	0.586	0.620	0.648	0.671	0.692
City of Avon Park (5786,6029)	15,287	1.544	17,539	18,100	18,605	19,549	19,877	101	1.771	1.828	1.879	1.974	2.008
Highlands Co BOCC / Tomoka Heights (6326)	2,515	0.174	2,540	2,598	2,634	2,654	2,667	69	0.175	0.179	0.182	0.183	0.184
Buttonwood Bay Utilities (7139)	1,932	0.203	4,838	5,330	5,820	6,323	6,810	105	0.508	0.560	0.611	0.664	0.715
Country Club Utilities Inc. (7704)	837	0.248	949	1,046	1,089	1,111	1,125	296	0.281	0.310	0.322	0.329	0.333
Mink Assoc. / Crystal Lake Club (7811)	990	0.156	1,056	1,138	1,214	1,273	1,302	158	0.167	0.180	0.192	0.201	0.206
LP Utilities Inc. (9490)	536	0.047	555	710	784	816	832	88	0.049	0.062	0.069	0.072	0.073
Highlands Ridge Utilities (9516)	1,325	0.249	1,523	1,598	1,641	1,675	1,706	188	0.286	0.300	0.309	0.315	0.321
Sun n Lake of Sebring Improv. District (13099)	7,805	1.186	7,904	8,683	9,412	10,111	10,757	152	1.201	1.320	1.431	1.537	1.635
(9) Additional Irrigation Demand	9,098	2.729	10,387	11,104	11,715	12,362	12,974		3.116	3.331	3.515	3.708	3.892
Total County	86,412	11.963	98,650	105,460	111,272	117,408	123,226		13.576	14.517	15.319	16.151	16.918
(7) 1-10 Drought Year Demand									14.391	15.388	16.238	17.120	17.933

Notes:

MGD = million gallons per day

(1) From SWFWMD, 2005 Estimated Water Use Report, Table A-1 (June 2007).

(2) Estimated using average 2003-2007 GPCD, as provided in Table A-1 of the District's reports titled *Estimated Water Use, 2003-2007*.

(3) Projected County Population source for years 2010-2030 are utility specific projections based on GIS Associates Population Projection Model, "The Small Area Population Projection Methodology of the Southwest Florida Water Management District," GIS Associates, February 2009.

(4) For utilities with at least 0.1 mgd average annual withdrawal (i.e., the utilities individually listed in the table), year 2003-2007 average estimated per capita water use rates, as provided in Table A-1 of the District's reports titled *Estimated Water Use, 2003-2007* were used to project demands. See footnotes 6 and 8 for descriptions of the per capita used for the Domestic Self-Supply and Small Utility.

(5) Computed as projected population multiplied by 2001-2005 average per capita water use.

(6) County residential per capita rate from the District's reports titled *Estimated Water Use, 2003-2007* was used to calculate average estimated 2003-2007 usage, Table A-2. If a county residential per capita rate was not available, the District's 2003-2007 average residential per capita rate was used.

(7) 1-10 Drought Year Demand is calculated as 1.06 x Projected Future Water Use.

(8) Small Utility population is the "Additional Population" of Table 1, 2005 Estimated Water Use, District (June 2007). Small Utility 2005 Population Unit Use (Per Capita) is defined as follows: [the sum of "Estimated Water Use" and "Reported Water Use" on Table 1] divided by [the "Additional Population" from Table 1] of the District's reports titled *Estimated Water Use (2003-2007)*.

(9) Additional Irrigation Demand is defined as water demand from residential irrigation wells utilized by residents that depend upon a centralized system for indoor water needs. See attached table.

Water Supply Assessment
 Public Supply Population and Demand Projections
 Southwest Florida Water Management District
 04/21/2009 DRAFT RWSP Update

TABLE 9. HILLSBOROUGH COUNTY POPULATION ESTIMATES AND WATER DEMAND PROJECTIONS

	(1)	(2)	(3)					(4)	(5)				
	ESTIMATED 2005 POP	ESTIMATED 2005 WITHDRAWAL (MGD)	PROJECTED POPULATION					2003-2007 AVG GPD	PROJECTED WATER DEMANDS (MGD)				
			2010	2015	2020	2025	2030		2010	2015	2020	2025	2030
(6) Domestic-Self Supply	12,227	0.880	27,346	32,402	35,700	76,730	130,497	72	1.969	2.333	2.570	5.525	9.396
(8) Small Utility	15,148	1.727	16,532	18,027	19,410	20,749	22,000	114	1.885	2.055	2.213	2.365	2.508
City of Temple Terrace (450)	31,577	3.726	31,909	33,438	35,401	37,265	38,052	118	3.765	3.946	4.177	4.397	4.490
City of Plant City (1776)	34,528	5.663	38,934	42,049	47,516	52,742	54,852	164	6.385	6.896	7.793	8.650	8.996
City of Tampa (2062)	655,993	77.407	665,474	686,114	700,625	714,962	722,778	118	78.526	80.961	82.674	84.366	85.288
Charles E Springer / Davpam MHP (2285)	1,325	0.115	1,325	1,325	1,325	1,325	1,325	87	0.115	0.115	0.115	0.115	0.115
Eastlake Water Service, Inc. (2707)	2,290	0.229	2,536	2,536	2,536	2,536	2,536	100	0.254	0.254	0.254	0.254	0.254
Hillsborough County (4352,NW)	443,175	45.647	544,287	598,030	646,110	678,506	708,785	103	56.062	61.597	66.549	69.886	73.005
Wilder Mobile Home, Inc / Hawaiian Isles (4757)	1,000	0.093	1,000	1,000	1,000	1,000	1,000	93	0.093	0.093	0.093	0.093	0.093
Tampa Bay Water - Carrollwood (5886)	3,587	0.488	3,587	3,587	3,587	3,587	3,587	136	0.488	0.488	0.488	0.488	0.488
C W Utility Systems LLC (6879)	2,830	0.204	2,830	2,830	2,830	2,830	2,830	72	0.204	0.204	0.204	0.204	0.204
Malco Industries Inc. / Featherock (7002)	1,044	0.113	1,044	1,044	1,044	1,044	1,044	108	0.113	0.113	0.113	0.113	0.113
Cax Riverside LLC (7637)	754	0.173	945	1,486	2,029	2,570	3,112	230	0.217	0.342	0.467	0.591	0.716
Uniprop Income Fund II (7790)	1,228	0.074	2,849	2,849	2,849	2,849	2,849	60	0.171	0.171	0.171	0.171	0.171
Windemere Utility Company (10443)	3,080	0.367	3,080	3,080	3,080	3,080	3,080	119	0.367	0.367	0.367	0.367	0.367
Pebble Creek Utilities (12994)	3,900	0.452	4,928	4,928	4,928	4,928	4,928	116	0.572	0.572	0.572	0.572	0.572
(9) Additional Irrigation Demand	6,512	1.954	7,236	7,698	8,102	8,621	9,139		2.171	2.309	2.431	2.586	2.742
Total County	1,213,686	139.311	1,348,606	1,434,725	1,509,970	1,606,703	1,703,255		153.355	162.815	171.249	180.741	189.515
SWUCA	240,795	27.639	273,014	302,509	335,488	382,281	417,040		30.993	34.202	37.847	42.554	45.713
(7) 1-10 Drought Year Demand									162.556	172.584	181.524	191.586	200.886

Notes:

MGD = million gallons per day

(1) From SWFWMD, 2005 Estimated Water Use Report, Table A-1 (June 2007).

(2) Estimated using average 2003-2007 GPCD, as provided in Table A-1 of the District's reports titled *Estimated Water Use, 2003-2007*.

(3) Projected County Population source for years 2010-2030 are utility specific projections based on GIS Associates Population Projection Model, "The Small Area Population Projection Methodology of the Southwest Florida Water Management District," GIS Associates, February 2009.

(4) For utilities with at least 0.1 mgd average annual withdrawal (i.e., the utilities individually listed in the table), year 2003-2007 average estimated per capita water use rates, as provided in Table A-1 of the District's reports titled *Estimated Water Use, 2003-2007* were used to project demands. See footnotes 6 and 8 for descriptions of the per capita used for the Domestic Self-Supply and Small Utility.

(5) Computed as projected population multiplied by 2001-2005 average per capita water use.

(6) County residential per capita rate from the District's reports titled *Estimated Water Use, 2003-2007* was used to calculate average estimated 2003-2007 usage, Table A-2. If a county residential per capita rate was not available, the District's 2003-2007 average residential per capita rate was used.

(7) 1-10 Drought Year Demand is calculated as 1.06 x Projected Future Water Use.

(8) Small Utility population is the "Additional Population" of Table 1, *2005 Estimated Water Use, District (June 2007)*. Small Utility 2005 Population Unit Use (Per Capita) is defined as follows: [the sum of "Estimated Water Use" and "Reported Water Use" on Table 1] divided by [the "Additional Population" from Table 1] of the District's reports titled *Estimated Water Use (2003-2007)*.

(9) Additional Irrigation Demand is defined as water demand from residential irrigation wells utilized by residents that depend upon a centralized system for indoor water needs. See attached table.

Water Supply Assessment
Public Supply Population and Demand Projections
Southwest Florida Water Management District
04/21/2009 DRAFT RWSP Update

TABLE 10. LAKE COUNTY POPULATION ESTIMATES AND WATER DEMAND PROJECTIONS

	(1)	(2)	(3)					(4)	(5)				
	ESTIMATED 2005 POP	ESTIMATED 2005 WITHDRAWAL (MGD)	2010	2015	2020	2025	2030	2003-2007 AVG GPD	2010	2015	2020	2025	2030
(6) Domestic-Self Supply	658	0.053	720	741	764	780	805	80	0.058	0.059	0.061	0.062	0.064
(8) Additional Irrigation Demand	16	0.005	17	18	18	19	19		0.005	0.005	0.006	0.006	0.006
Total County	658	0.057	720	741	764	780	805		0.063	0.065	0.067	0.068	0.070
(7) 1-10 Drought Year Demand									0.067	0.069	0.071	0.072	0.074

Notes:

MGD = million gallons per day

(1) From SWFWMD, 2005 Estimated Water Use Report, Table A-1 (June 2007).

(2) Estimated using average 2003-2007 GPCD, as provided in Table A-1 of the District's reports titled *Estimated Water Use, 2003-2007*.

(3) Projected County Population source for years 2010-2030 are utility specific projections based on GIS Associates Population Projection Model, "The Small Area Population Projection Methodology of the Southwest Florida Water Management District," GIS Associates, February 2009.

(4) For utilities with at least 0.1 mgd average annual withdrawal (i.e., the utilities individually listed in the table), year 2003-2007 average estimated per capita water use rates, as provided in Table A-1 of the District's reports titled *Estimated Water Use, 2003-2007* were used to project demands. See footnotes 6 and 8 for descriptions of the per capita used for the Domestic Self-Supply and Small Utility.

(5) Computed as projected population multiplied by 2001-2005 average per capita water use.

(6) County residential per capita rate from the District's reports titled *Estimated Water Use, 2003-2007* was used to calculate average estimated 2003-2007 usage, Table A-2. If a county residential per capita rate was not available, the District's 2003-2007 average residential per capita rate was used.

(7) 1-10 Drought Year Demand is calculated as 1.06 x Projected Future Water Use.

(8) Small Utility population is the "Additional Population" of Table 1, 2005 *Estimated Water Use, District (June 2007)*. Small Utility 2005 Population Unit Use (Per Capita) is defined as follows: [the sum of "Estimated Water Use" and "Reported Water Use" on Table 1] divided by [the "Additional Population" from Table 1] of the District's reports titled *Estimated Water Use (2003-2007)*.

(9) Additional Irrigation Demand is defined as water demand from residential irrigation wells utilized by residents that depend upon a centralized system for indoor water needs. See attached table.

Water Supply Assessment
Public Supply Population and Demand Projections
Southwest Florida Water Management District
04/21/2009 DRAFT RWSP Update

TABLE 11. LEVY COUNTY POPULATION ESTIMATES AND WATER DEMAND PROJECTIONS

	(1)	(2)	(3)					(4)	(5)				
	ESTIMATED 2005 POP	ESTIMATED 2005 WITHDRAWAL (MGD)	2010	2015	2020	2025	2030	2003-2007 AVG GPCD	2010	2015	2020	2025	2030
(6) Domestic-Self Supply	15,068	1.673	19,148	21,290	23,325	25,472	27,476	111	2.125	2.363	2.589	2.827	3.050
(8) Small Utility	700	0.089	764	822	879	932	981	127	0.097	0.104	0.112	0.118	0.125
City of Williston (5640)	3,495	0.517	3,870	4,002	4,084	4,132	4,166	148	0.573	0.592	0.604	0.612	0.617
Town of Yankeetown (7755)	705	0.085	792	805	815	826	836	120	0.095	0.097	0.098	0.099	0.100
Town of Inglis (8953)	1,400	0.148	1,716	1,803	1,871	1,927	1,972	106	0.182	0.191	0.198	0.204	0.209
(9) Additional Irrigation Demand	121	0.036	149	163	176	189	201		0.045	0.049	0.053	0.057	0.060
Total County	21,368	2.548	26,290	28,722	30,974	33,289	35,431		3.117	3.396	3.654	3.917	4.161
(7) 1-10 Drought Year Demand									3.304	3.600	3.873	4.152	4.410

Notes:

MGD = million gallons per day

(1) From SWFWMD, *2005 Estimated Water Use Report, Table A-1 (June 2007)*.

(2) Estimated using average 2003-2007 GPCD, as provided in Table A-1 of the District's reports titled *Estimated Water Use, 2003-2007*.

(3) Projected County Population source for years 2010-2030 are utility specific projections based on GIS Associates Population Projection Model, "The Small Area Population Projection Methodology of the Southwest Florida Water Management District," GIS Associates, February 2009.

(4) For utilities with at least 0.1 mgd average annual withdrawal (i.e., the utilities individually listed in the table), year 2003-2007 average estimated per capita water use rates, as provided in Table A-1 of the District's reports titled *Estimated Water Use, 2003-2007* were used to project demands. See footnotes 6 and 8 for descriptions of the per capita used for the Domestic Self-Supply and Small Utility.

(5) Computed as projected population multiplied by 2001-2005 average per capita water use.

(6) County residential per capita rate from the District's reports titled *Estimated Water Use, 2003-2007* was used to calculate average estimated 2003-2007 usage, Table A-2. If a county residential per capita rate was not available, the District's 2003-2007 average residential per capita rate was used.

(7) 1-10 Drought Year Demand is calculated as 1.06 x Projected Future Water Use.

(8) Small Utility population is the "Additional Population" of Table 1, *2005 Estimated Water Use, District (June 2007)*. Small Utility 2005 Population Unit Use (Per Capita) is defined as follows: [the sum of "Estimated Water Use" and "Reported Water Use" on Table 1] divided by [the "Additional Population" from Table 1] of the District's reports titled *Estimated Water Use (2003-2007)*.

(9) Additional Irrigation Demand is defined as water demand from residential irrigation wells utilized by residents that depend upon a centralized system for indoor water needs. See attached table.

Water Supply Assessment
Public Supply Population and Demand Projections
Southwest Florida Water Management District
04/21/2009 DRAFT RWSP Update

TABLE 12. MANATEE COUNTY POPULATION ESTIMATES AND WATER DEMAND PROJECTIONS

	(1)	(2)	(3)					(4)	(5)				
	ESTIMATED 2005 POP	ESTIMATED 2005 WITHDRAWAL (MGD)	2010	2015	2020	2025	2030	2003-2007 AVG GPCD	2010	2015	2020	2025	2030
(6) Domestic-Self Supply	1,955	0.158	3,535	6,082	8,486	11,567	14,233	81	0.286	0.493	0.687	0.937	1.153
(8) Small Utility	387	0.045	416	456	492	527	560	115	0.048	0.052	0.057	0.061	0.064
Manatee County (5387,7345,7470)	257,048	30.075	314,966	342,970	369,167	393,812	417,028	117	36.851	40.127	43.193	46.076	48.792
City of Bradenton (6392)	54,304	5.756	54,893	55,316	56,423	57,020	57,805	106	5.819	5.863	5.981	6.044	6.127
Longboat Key (10963)	23,501	2.021	23,501	23,501	23,501	23,501	23,501	86	2.021	2.021	2.021	2.021	2.021
City of Palmetto (12443)	13,035	1.473	15,256	16,364	16,675	17,084	17,473	113	1.724	1.849	1.884	1.930	1.974
(9) Additional Irrigation Demand	4,199	1.260	4,946	5,332	5,692	6,037	6,362		1.484	1.599	1.708	1.811	1.908
Total County	350,230	40.787	412,567	444,689	474,744	503,511	530,600		48.233	52.006	55.530	58.880	62.041
(7) 1-10 Drought Year Demand									51.127	55.126	58.862	62.413	65.763

Notes:

MGD = million gallons per day

(1) From SWFWMD, 2005 Estimated Water Use Report, Table A-1 (June 2007).

(2) Estimated using average 2003-2007 GPCD, as provided in Table A-1 of the District's reports titled *Estimated Water Use, 2003-2007*.

(3) Projected County Population source for years 2010-2030 are utility specific projections based on GIS Associates Population Projection Model, "The Small Area Population Projection Methodology of the Southwest Florida Water Management District," GIS Associates, February 2009.

(4) For utilities with at least 0.1 mgd average annual withdrawal (i.e., the utilities individually listed in the table), year 2003-2007 average estimated per capita water use rates, as provided in Table A-1 of the District's reports titled *Estimated Water Use, 2003-2007* were used to project demands. See footnotes 6 and 8 for descriptions of the per capita used for the Domestic Self-Supply and Small Utility.

(5) Computed as projected population multiplied by 2001-2005 average per capita water use.

(6) County residential per capita rate from the District's reports titled *Estimated Water Use, 2003-2007* was used to calculate average estimated 2003-2007 usage, Table A-2. If a county residential per capita rate was not available, the District's 2003-2007 average residential per capita rate was used.

(7) 1-10 Drought Year Demand is calculated as 1.06 x Projected Future Water Use.

(8) Small Utility population is the "Additional Population" of Table 1, 2005 Estimated Water Use, District (June 2007). Small Utility 2005 Population Unit Use (Per Capita) is defined as follows: [the sum of "Estimated Water Use" and "Reported Water Use" on Table 1] divided by [the "Additional Population" from Table 1] of the District's reports titled *Estimated Water Use (2003-2007)*.

(9) Additional Irrigation Demand is defined as water demand from residential irrigation wells utilized by residents that depend upon a centralized system for indoor water needs. See attached table.

Water Supply Assessment
 Public Supply Population and Demand Projections
 Southwest Florida Water Management District
 04/21/2009 DRAFT RWSP Update

TABLE 13. MARION COUNTY POPULATION ESTIMATES AND WATER DEMAND PROJECTIONS

	(1)	(2)	(3)					(4)	(5)				
	ESTIMATED 2005 POP	ESTIMATED 2005 WITHDRAWAL (MGD)	2010	2015	2020	2025	2030	2003-2007 AVG GPCD	2010	2015	2020	2025	2030
(6) Domestic-Self Supply	40,906	5.481	41,678	49,077	57,172	66,761	77,352	134	5.585	6.576	7.661	8.946	10.365
(8) Small Utility	4,925	0.872	6,657	7,776	8,724	9,541	9,973	177	1.178	1.376	1.544	1.689	1.765
Marion County Utilities / Summerglenn (377)	9,248	1.184	16,883	24,142	29,103	34,399	39,787	128	2.161	3.090	3.725	4.403	5.093
On Top of The World Communities Inc (1156)	5,824	1.613	8,443	9,100	9,603	10,023	10,645	277	2.339	2.521	2.660	2.776	2.949
Marion Utilities Inc. (2999)	681	0.127	681	681	681	681	681	187	0.127	0.127	0.127	0.127	0.127
Rainbow Springs Utilities LC (4257)	2,774	0.613	3,013	3,448	3,807	4,107	4,424	221	0.666	0.762	0.841	0.908	0.978
Utilities Inc. of Florida / Golden Hills (5643)	1,785	0.173	1,841	1,945	2,063	2,217	2,449	97	0.179	0.189	0.200	0.215	0.238
Marion County Utilities (6151)	9,093	1.628	12,603	13,718	14,506	15,264	15,870	179	2.256	2.456	2.597	2.732	2.841
Sateke Village Utilities Hoa (6290)	76	0.009	87	87	87	88	88	124	0.011	0.011	0.011	0.011	0.011
Sun Communities Operating LP (6792)	845	0.123	845	845	845	845	845	146	0.123	0.123	0.123	0.123	0.123
Marion Utilities Inc. (7849)	807	0.149	954	1,055	1,109	1,138	1,166	185	0.176	0.195	0.205	0.211	0.216
Century Fairfield Village LTD (8005)	513	0.107	513	513	513	513	513	208	0.107	0.107	0.107	0.107	0.107
Marion Landingd HOA (8020)	1,144	0.180	1,196	1,196	1,196	1,196	1,196	157	0.188	0.188	0.188	0.188	0.188
Marion County Utilities / Quail Meadow (8165)	500	0.109	1,009	1,051	1,107	1,189	1,295	217	0.219	0.228	0.240	0.258	0.281
City of Dunnellon (8339)	2,770	0.346	6,135	7,064	8,166	9,255	10,151	125	0.767	0.883	1.021	1.157	1.269
Marion Utilities Inc. / Spruce Creek (8481)	3,000	0.723	5,533	6,469	6,903	7,100	7,246	241	1.333	1.559	1.664	1.711	1.746
Windstream Utilities Co (9360)	1,440	0.589	2,333	2,518	2,700	2,903	3,152	409	0.954	1.030	1.104	1.187	1.289
Upchurch Marinas / Sweetwater (9425)	249	0.069	452	452	452	452	452	277	0.125	0.125	0.125	0.125	0.125
Marion County Utilities (11752)	80	0.043	1,833	1,886	1,950	2,038	2,149	536	0.982	1.011	1.045	1.092	1.152
Marion County Utilities / Spruce Creek (12218)	1,200	0.584	1,430	1,530	1,662	1,802	1,914	487	0.696	0.745	0.809	0.878	0.932
(9) Additional Irrigation Demand	1,251	0.375	1,624	1,915	2,169	2,441	2,724		0.487	0.575	0.651	0.732	0.817
Total County	87,860	15.098	114,119	134,553	152,349	171,512	191,348		20.661	23.877	26.649	29.577	32.611
(7) 1-10 Drought Year Demand									21.900	25.309	28.248	31.351	34.568

Notes:

MGD = million gallons per day

(1) From SWFWMD, 2005 Estimated Water Use Report, Table A-1 (June 2007).

(2) Estimated using average 2003-2007 GPCD, as provided in Table A-1 of the District's reports titled *Estimated Water Use, 2003-2007*.

(3) Projected County Population source for years 2010-2030 are utility specific projections based on GIS Associates Population Projection Model, "The Small Area Population Projection Methodology of the Southwest Florida Water Management District," GIS Associates, February 2009.

(4) For utilities with at least 0.1 mgd average annual withdrawal (i.e., the utilities individually listed in the table), year 2003-2007 average estimated per capita water use rates, as provided in Table A-1 of the District's reports titled *Estimated Water Use, 2003-2007 were used to project demands*. See footnotes 6 and 8 for descriptions of the per capita used for the Domestic Self-Supply and Small Utility.

(5) Computed as projected population multiplied by 2001-2005 average per capita water use.

(6) County residential per capita rate from the District's reports titled *Estimated Water Use, 2003-2007* was used to calculate average estimated 2003-2007 usage, Table A-2. If a county residential per capita rate was not available, the District's 2003-2007 average residential per capita rate was used.

(7) 1-10 Drought Year Demand is calculated as 1.06 x Projected Future Water Use.

(8) Small Utility population is the "Additional Population" of Table 1, *2005 Estimated Water Use, District (June 2007)*. Small Utility 2005 Population Unit Use (Per Capita) is defined as follows: [the sum of "Estimated Water Use" and "Reported Water Use" on Table 1] divided by [the "Additional Population" from Table 1] of the District's reports titled *Estimated Water Use (2003-2007)*.

(9) Additional Irrigation Demand is defined as water demand from residential irrigation wells utilized by residents that depend upon a centralized system for indoor water needs. See attached table.

Water Supply Assessment
Public Supply Population and Demand Projections
Southwest Florida Water Management District
04/21/2009 DRAFT RWSP Update

TABLE 14. PASCO COUNTY POPULATION ESTIMATES AND WATER DEMAND PROJECTIONS

	(1)	(2)	(3)					(4)	(5)				
	ESTIMATED 2005 POP	ESTIMATED 2005 WITHDRAWAL (MGD)	2010	2015	2020	2025	2030	2003-2007 AVG GPD	2010	2015	2020	2025	2030
(6) Domestic-Self Supply	51,015	4.540	54,598	61,765	77,146	95,001	111,418	89	4.859	5.497	6.866	8.455	9.916
(8) Small Utility	32,730	3.600	36,535	40,814	44,772	48,625	52,244	110	4.019	4.490	4.925	5.349	5.747
Aqua Utilities Florida Inc. / Jasmine (279)	3,311	0.268	3,311	3,311	3,311	3,311	3,311	81	0.268	0.268	0.268	0.268	0.268
Holiday Gardens Utilities Inc. (540)	944	0.084	944	944	944	944	944	89	0.084	0.084	0.084	0.084	0.084
Crestridge Utility Corporation (543)	1,226	0.092	1,230	1,230	1,230	1,230	1,230	75	0.092	0.092	0.092	0.092	0.092
Mad Hatter Utilities Inc. (590)	4,973	0.860	4,973	4,973	4,973	4,973	4,973	173	0.860	0.860	0.860	0.860	0.860
C.S. Water Co. Inc / Crystal Springs (964)	848	0.118	891	957	1,042	1,094	1,172	139	0.124	0.133	0.145	0.152	0.163
City of Dade City (1631)	12,090	1.439	17,458	18,555	19,811	21,335	23,120	119	2.078	2.208	2.358	2.539	2.751
Orangewood Lakes Mobile Home (2043)	1,047	0.086	1,047	1,047	1,047	1,047	1,047	82	0.086	0.086	0.086	0.086	0.086
Lindrick Service Corp (2978)	9,279	0.714	9,805	10,317	10,560	10,685	10,736	77	0.755	0.794	0.813	0.823	0.827
Aloha Utilities Inc. / Seven Springs (3182)	31,866	3.282	33,480	36,205	37,736	38,824	39,842	103	3.448	3.729	3.887	3.999	4.104
Utilities Inc. of Florida / Buena Vista (3590)	2,763	0.155	3,102	3,122	3,122	3,122	3,122	56	0.174	0.175	0.175	0.175	0.175
Tierre Verde Utility / Summertree (3668)	2,313	0.164	2,848	3,196	3,353	3,405	3,418	71	0.202	0.227	0.238	0.242	0.243
Floralino Properties Inc. (3677)	2,097	0.099	2,097	2,097	2,097	2,097	2,097	47	0.099	0.099	0.099	0.099	0.099
City of Port Richey (3692)	9,692	0.969	10,707	11,158	11,437	11,725	12,057	100	1.071	1.116	1.144	1.173	1.206
City of San Antonio (4550)	1,000	0.151	1,120	1,274	1,377	1,471	1,566	151	0.169	0.192	0.208	0.222	0.236
Tierre Verde Utilities Inc. (4668)	1,478	0.108	1,678	1,678	1,678	1,678	1,678	73	0.122	0.122	0.122	0.122	0.122
Hudson Water Works Inc (4669)	7,598	0.676	7,643	8,171	8,603	9,116	9,728	89	0.680	0.727	0.766	0.811	0.866
City of New Port Richey (4734)	29,825	2.983	30,539	31,549	32,212	32,625	32,929	100	3.054	3.155	3.221	3.263	3.293
City of Zephyrhills (6040)	21,728	2.586	32,553	34,394	35,799	37,342	39,161	119	3.874	4.093	4.260	4.444	4.660
Labrador Utilities Inc. (6867)	2,245	0.092	4,765	4,826	4,873	4,897	4,912	41	0.195	0.198	0.200	0.201	0.201
Pasco Utilities Inc. / Angus Valley (7999)	1,720	0.151	2,359	2,437	2,490	2,538	2,558	88	0.208	0.214	0.219	0.223	0.225
Aloha Utilities Inc. / Aloha Gardens (8417)	8,230	0.379	8,588	8,568	8,572	8,573	8,574	46	0.395	0.394	0.394	0.394	0.394
Pasco Co. Utilities (11863)	208,060	24.759	242,678	272,847	300,612	325,309	348,268	119	28.879	32.469	35.773	38.712	41.444
(9) Additional Irrigation Demand	11,761	3.528	13,516	14,841	16,242	17,611	18,901		4.055	4.452	4.872	5.283	5.670
Total County	448,078	51.884	514,949	565,435	618,797	670,967	720,105		59.850	65.875	72.075	78.070	83.733
(7) 1-10 Drought Year Demand									63.441	69.828	76.399	82.755	88.757

Notes:

MGD = million gallons per day

(1) From SWFWMD, 2005 Estimated Water Use Report, Table A-1 (June 2007).

(2) Estimated using average 2003-2007 GPCD, as provided in Table A-1 of the District's reports titled *Estimated Water Use, 2003-2007*.

(3) Projected County Population source for years 2010-2030 are utility specific projections based on GIS Associates Population Projection Model, "The Small Area Population Projection Methodology of the Southwest Florida Water Management District," GIS Associates, February 2009.

(4) For utilities with at least 0.1 mgd average annual withdrawal (i.e., the utilities individually listed in the table), year 2003-2007 average estimated per capita water use rates, as provided in Table A-1 of the District's reports titled *Estimated Water Use, 2003-2007* were used to project demands. See footnotes 6 and 8 for descriptions of the per capita used for the Domestic Self-Supply and Small Utility.

(5) Computed as projected population multiplied by 2001-2005 average per capita water use.

(6) County residential per capita rate from the District's reports titled *Estimated Water Use, 2003-2007* was used to calculate average estimated 2003-2007 usage, Table A-2. If a county residential per capita rate was not available, the District's 2003-2007 average residential per capita rate was used.

(7) 1-10 Drought Year Demand is calculated as 1.06 x Projected Future Water Use.

(8) Small Utility population is the "Additional Population" of Table 1, 2005 *Estimated Water Use, District (June 2007)*. Small Utility 2005 Population Unit Use (Per Capita) is defined as follows: [the sum of "Estimated Water Use" and "Reported Water Use" on Table 1] divided by [the "Additional Population" from Table 1] of the District's reports titled *Estimated Water Use (2003-2007)*.

(9) Additional Irrigation Demand is defined as water demand from residential irrigation wells utilized by residents that depend upon a centralized system for indoor water needs. See attached table.

Water Supply Assessment
Public Supply Population and Demand Projections
Southwest Florida Water Management District
04/21/2009 DRAFT RWSP Update

TABLE 15. PINELLAS COUNTY POPULATION ESTIMATES AND WATER DEMAND PROJECTIONS

	(1)	(2)	(3)					(4)	(5)				
	ESTIMATED 2005 POP	ESTIMATED 2005 WITHDRAWAL (MGD)	2010	2015	2020	2025	2030	2003-2007 AVG GPD	2010	2015	2020	2025	2030
(6) Domestic Self Supply	4,948	0.351	5,474	5,696	5,723	5,741	5,741	71	0.389	0.404	0.406	0.408	0.408
(8) Small Utility	1,423	0.138	1,427	1,452	1,475	1,497	1,518	97	0.138	0.141	0.143	0.145	0.147
City of Tarpon Springs (742)	31,749	3.492	33,105	34,259	35,301	35,826	35,848	110	3.642	3.768	3.883	3.941	3.943
City of Dunedin (2980)	39,141	4.071	39,729	40,227	40,395	40,478	40,488	104	4.132	4.184	4.201	4.210	4.211
City of Clearwater (2981)	146,832	12.481	151,768	153,044	153,790	154,317	154,508	85	12.900	13.009	13.072	13.117	13.133
City of Bellair (7692)	5,172	0.967	5,299	5,377	5,399	5,418	5,432	187	0.991	1.005	1.010	1.013	1.016
Tierre Verde Inc. / Lake Tarpon (10350)	1,285	0.062	1,799	1,799	1,799	1,799	1,799	48	0.086	0.086	0.086	0.086	0.086
City of Gulfport (10795)	14,435	1.126	14,518	14,726	14,763	14,778	14,780	78	1.132	1.149	1.152	1.153	1.153
City of Oldsmar (11218)	18,482	1.589	19,772	21,104	21,819	21,945	21,961	86	1.700	1.815	1.876	1.887	1.889
City of Safety Harbor (11245)	17,750	2.219	17,750	17,750	17,750	17,750	17,750	125	2.219	2.219	2.219	2.219	2.219
City of Pinellas Park (12351)	75,573	4.459	79,925	81,520	81,722	81,843	81,868	59	4.716	4.810	4.822	4.829	4.830
Pinellas County	425,390	45.517	447,138	456,514	471,399	481,568	482,037	107	47.844	48.847	50.440	51.528	51.578
City of St. Petersburg	292,951	27.830	299,090	302,275	302,769	303,100	303,265	95	28.414	28.716	28.763	28.795	28.810
(9) Additional Irrigation Demand	12,273	3.682	12,748	12,965	13,174	13,311	13,321		3.825	3.889	3.952	3.993	3.996
Total County	1,075,131	107.984	1,116,794	1,135,743	1,154,104	1,166,060	1,166,995		112.127	114.042	116.025	117.323	117.419
(7) 1-10 Drought Year Demand									118.855	120.885	122.987	124.362	124.464

Notes:

MGD = million gallons per day

(1) From SWFWMD, 2005 Estimated Water Use Report, Table A-1 (June 2007).

(2) Estimated using average 2003-2007 GPCD, as provided in Table A-1 of the District's reports titled *Estimated Water Use, 2003-2007*.

(3) Projected County Population source for years 2010-2030 are utility specific projections based on GIS Associates Population Projection Model, "The Small Area Population Projection Methodology of the Southwest Florida Water Management District," GIS Associates, February 2009.

(4) For utilities with at least 0.1 mgd average annual withdrawal (i.e., the utilities individually listed in the table), year 2003-2007 average estimated per capita water use rates, as provided in Table A-1 of the District's reports titled *Estimated Water Use, 2003-2007* were used to project demands. See footnotes 6 and 8 for descriptions of the per capita used for the Domestic Self-Supply and Small Utility.

(5) Computed as projected population multiplied by 2001-2005 average per capita water use.

(6) County residential per capita rate from the District's reports titled *Estimated Water Use, 2003-2007* was used to calculate average estimated 2003-2007 usage, Table A-2. If a county residential per capita rate was not available, the District's 2003-2007 average residential per capita rate was used.

(7) 1-10 Drought Year Demand is calculated as 1.06 x Projected Future Water Use.

(8) Small Utility population is the "Additional Population" of Table 1, 2005 Estimated Water Use, District (June 2007). Small Utility 2005 Population Unit Use (Per Capita) is defined as follows: [the sum of "Estimated Water Use" and "Reported Water Use" on Table 1] divided by [the "Additional Population" from Table 1] of the District's reports titled *Estimated Water Use (2003-2007)*.

(9) Additional Irrigation Demand is defined as water demand from residential irrigation wells utilized by residents that depend upon a centralized system for indoor water needs. See attached table.

Water Supply Assessment
Public Supply Population and Demand Projections
Southwest Florida Water Management District
07/24/2009 DRAFT RWSP Update

TABLE 16. POLK COUNTY POPULATION ESTIMATES AND WATER DEMAND PROJECTIONS

	(1)	(2)	(3)					(4)	(5)				
	ESTIMATED 2005 POP	ESTIMATED 2005 WITHDRAWAL (MGD)	2010	2015	2020	2025	2030	2003-2007 AVG GPCD	2010	2015	2020	2025	2030
(6) Domestic-Self Supply	5,074	0.482	5,795	6,354	6,868	7,322	7,738	95	0.551	0.604	0.652	0.696	0.735
(8) Small Utility	21,025	2.901	23,379	25,629	27,701	29,704	31,578	138	3.226	3.537	3.823	4.099	4.358
Mountain Lake Corporation (143)	312	0.083	320	328	354	382	398	266	0.085	0.087	0.094	0.102	0.106
(10) City of Bartow (341)	20,047	3.869	27,184	35,964	44,056	52,146	61,876	193	5.247	6.941	8.503	10.064	11.942
City of Fort Meade (645)	6,942	0.784	7,841	8,402	8,744	9,113	9,522	113	0.886	0.949	0.988	1.030	1.076
Lake Region Moblie HOA (1616)	1,026	0.068	1,214	1,214	1,214	1,214	1,214	66	0.080	0.080	0.080	0.080	0.080
Four Lakes Golf Club LTD (1625)	1,840	0.350	2,066	2,066	2,066	2,066	2,066	190	0.393	0.393	0.393	0.393	0.393
Town of Lake Hamilton (2332)	1,500	0.218	1,909	2,079	2,186	2,316	2,467	145	0.277	0.301	0.317	0.336	0.358
SweetwaterEast / Lake Henry (2449)	1,019	0.124	1,019	1,019	1,019	1,019	1,019	122	0.124	0.124	0.124	0.124	0.124
Orchid Springs Development Corp. (3415)	700	0.083	851	852	852	852	852	119	0.101	0.101	0.101	0.101	0.101
Park Water Co. / Crooked Lake (4005)	2,012	0.227	2,752	2,846	2,937	3,027	3,113	113	0.311	0.322	0.332	0.342	0.352
(10) City of Winter Haven (4607)	65,766	9.733	85,135	95,000	105,676	116,149	127,660	148	12.600	14.060	15.640	17.190	18.894
City of Lake Wales (4658)	20,140	2.759	24,774	28,016	31,268	33,409	34,811	137	3.394	3.838	4.284	4.577	4.769
City of Lakeland (4912)	166,345	23.122	189,998	208,306	225,167	240,029	253,690	139	26.410	28.955	31.298	33.364	35.263
Grenelefe (5251)	3,140	0.672	3,163	3,224	3,285	3,324	3,342	214	0.677	0.690	0.703	0.711	0.715
(10) Polk County / NERUSA (5471,6509)	57,927	7.762	89,101	104,762	120,423	137,366	156,678	134	11.940	14.038	16.137	18.407	20.995
City of Davenport (5750)	3,978	0.597	5,522	6,280	7,078	8,040	9,187	150	0.828	0.942	1.062	1.206	1.378
(10) City of Frostproof (5870)	2,900	0.363	5,581	12,554	14,632	18,664	23,805	125	0.698	1.569	1.829	2.333	2.976
Town of Dundee(5893)	3,728	0.526	4,636	5,010	5,379	5,804	6,179	141	0.654	0.706	0.758	0.818	0.871
City of Mulberry (6124)	4,878	0.424	5,572	6,108	6,603	7,039	7,439	87	0.485	0.531	0.574	0.612	0.647
Saddlebag Lake Owners Assoc. (6174)	1,361	0.069	1,423	1,444	1,447	1,447	1,447	51	0.073	0.074	0.074	0.074	0.074
Polk County / NWRSA (6505)	23,100	3.026	41,239	46,374	50,392	52,407	53,946	131	5.402	6.075	6.601	6.865	7.067
Polk County / SWRSA (6506)	29,447	3.534	38,100	42,929	47,348	51,234	55,078	120	4.572	5.151	5.682	6.148	6.609
Polk County / CRSA (6507)	12,230	1.480	13,088	14,465	16,146	18,120	20,290	121	1.584	1.750	1.954	2.193	2.455
Polk County / SERSA (6508)	5,900	0.732	6,638	11,567	13,644	14,266	14,915	124	0.823	1.434	1.692	1.769	1.849
City of Lake Alfred (6624)	5,584	0.804	8,262	8,816	9,546	10,289	10,910	144	1.190	1.270	1.375	1.482	1.571
City of Eagle Lake (6920)	2,502	0.268	6,668	7,367	8,176	9,202	10,085	107	0.713	0.788	0.875	0.985	1.079
City of Auburndale (7119)	26,129	4.782	29,634	30,892	32,034	33,371	34,744	183	5.423	5.653	5.862	6.107	6.358
CHC VII Century Realty Fund / Lake Henry (7187)	1,964	0.395	1,964	1,964	1,964	1,964	1,964	201	0.395	0.395	0.395	0.395	0.395
Carefree Country Club (7328)	750	0.125	992	993	993	993	993	166	0.165	0.165	0.165	0.165	0.165
Aqua Utility Florida Inc. / Lake Gibson (7878)	2,023	0.235	2,070	2,073	2,073	2,073	2,073	116	0.240	0.240	0.240	0.240	0.240
Polk County / ERSA (8054)	4,584	0.495	7,774	9,425	10,781	12,384	14,134	108	0.840	1.018	1.164	1.337	1.526
S V Utilities LTD / Swiss Village (8344)	1,564	0.213	1,564	1,564	1,564	1,564	1,564	136	0.213	0.213	0.213	0.213	0.213
City of Polk City (8468)	2,200	0.246	5,984	9,767	10,948	12,289	13,494	112	0.670	1.094	1.226	1.376	1.511
City of Haines City (8522)	22,650	3.601	29,134	33,018	37,657	42,184	44,858	159	4.632	5.250	5.987	6.707	7.132
Plantation Landings Ltd (8753)	911	0.079	911	911	911	911	911	87	0.079	0.079	0.079	0.079	0.079
Sweetwater Community Inc. (8967)	1,028	0.140	1,028	1,028	1,028	1,028	1,028	136	0.140	0.140	0.140	0.140	0.140
Village of Highland Park (9807)	261	0.103	261	261	261	261	261	394	0.103	0.103	0.103	0.103	0.103
Cypress Lakes Utilities Inc. (8472 / 13043)	2,987	0.406	3,631	3,704	3,790	3,902	4,038	136	0.494	0.504	0.515	0.531	0.549
(9) Additional Irrigation Demand	4,907	1.472	6,283	7,164	7,927	8,664	9,417		1.885	2.149	2.378	2.599	2.825
Total County	537,474	77.351	688,177	784,575	868,211	948,874	1,031,367		98.600	112.314	124.413	136.093	148.075
SWUCA	487,865	70.212	624,658	712,159	788,075	861,293	936,172		89.499	101.948	112.930	123.532	134.407
(7) 1-10 Drought Year Demand									104.516	119.053	131.878	144.259	156.959

Notes:

MGD = million gallons per day

(1) From SWFWMD, 2005 Estimated Water Use Report, Table A-1 (June 2007).

(2) Estimated using average 2003-2007 GPCD, as provided in Table A-1 of the District's reports titled *Estimated Water Use, 2003-2007*.

(3) Projected County Population source for years 2010-2030 are utility specific projections based on GIS Associates Population Projection Model, "The Small Area Population Projection Methodology of the Southwest Florida Water Management District," GIS Associates, February 2009.

(4) For utilities with at least 0.1 mgd average annual withdrawal (i.e., the utilities individually listed in the table), year 2003-2007 average estimated per capita water use rates, as provided in Table A-1 of the District's reports titled *Estimated Water Use, 2003-2007* were used to project demands. See footnotes 6 and 8 for descriptions of the per capita used for the Domestic Self-Supply and Small Utility.

(5) Computed as projected population multiplied by 2001-2005 average per capita water use.

(6) County residential per capita rate from the District's reports titled *Estimated Water Use, 2003-2007* was used to calculate average estimated 2003-2007 usage, Table A-2. If a county residential per capita rate was not available, the District's 2003-2007 average residential per capita rate was used.

(7) 1-10 Drought Year Demand is calculated as 1.06 x Projected Future Water Use.

(8) Small Utility population is the "Additional Population" of Table 1, 2005 *Estimated Water Use, District (June 2007)*. Small Utility 2005 Population Unit Use (Per Capita) is defined as follows: [the sum of "Estimated Water Use" and "Reported Water Use" on Table 1] divided by [the "Additional Population" from Table 1] of the District's reports titled *Estimated Water Use (2003-2007)*.

(9) Additional Irrigation Demand is defined as water demand from residential irrigation wells utilized by residents that depend upon a centralized system for indoor water needs. See attached table.

(10) The City of Bartow, City of Winter Haven, City of Frostproof, and Polk County NERUSA supplied acceptable alternative methodology for future demand during the water use permit renewal evaluations for Regulatory and Central Florida Coordination Area Planning evaluations.

Water Supply Assessment
Public Supply Population and Demand Projections
Southwest Florida Water Management District
08/05/2009 DRAFT RWSP Update

TABLE 17. SARASOTA COUNTY POPULATION ESTIMATES AND WATER DEMAND PROJECTIONS

	(1)	(2)	(3)					(4)	(5)				
	ESTIMATED 2005 POP	ESTIMATED 2005 WITHDRAWAL (MGD)	2010	2015	2020	2025	2030	2003-2007 AVG GPCD	2010	2015	2020	2025	2030
(6) Domestic-Self Supply	4,667	0.313	5,013	5,479	5,905	6,280	6,623	67	0.336	0.367	0.396	0.421	0.444
(8) Small Utility	3,420	0.287	3,724	4,305	4,358	4,651	4,925	84	0.313	0.362	0.366	0.391	0.414
(10) City of North Port (2923)	36,588	3.330	43,365	53,856	66,247	78,737	93,500	91	3.946	4.901	6.028	7.165	8.509
City of Sarasota (4318)	71,762	7.391	74,869	76,934	77,267	77,616	78,714	103	7.712	7.924	7.959	7.994	8.108
Englewood Water District (4866)	47,472	2.658	51,695	54,395	57,306	60,759	65,539	56	2.895	3.046	3.209	3.403	3.670
City of Venice (5393)	24,666	2.195	28,140	30,011	30,285	30,676	31,204	89	2.504	2.671	2.695	2.730	2.777
Camelot Communities MHP LP (5807)	1,976	0.113	2,542	2,542	2,542	2,542	2,542	57	0.145	0.145	0.145	0.145	0.145
Royalty Resorts / Sun N Fun RV (7448)	2,600	0.117	2,600	2,600	2,600	2,600	2,600	45	0.117	0.117	0.117	0.117	0.117
Sarasota County (8836, 4709)	217,010	18.880	233,079	254,751	274,559	291,998	307,970	87	20.278	22.163	23.887	25.404	26.793
(9) Additional Irrigation Demand	12,163	3.649	13,197	14,379	15,452	16,484	17,603		3.959	4.314	4.636	4.945	5.281
Total County	410,161	38.933	445,027	484,873	521,069	555,859	593,617		42.205	46.010	49.437	52.714	56.257
(7) 1-10 Drought Year Demand									44.737	48.770	52.404	55.877	59.633

Notes:

MGD = million gallons per day

(1) From SWFWMD, *2005 Estimated Water Use Report, Table A-1 (June 2007)*.

(2) Estimated using average 2003-2007 GPCD, as provided in Table A-1 of the District's reports titled *Estimated Water Use, 2003-2007*.

(3) Projected County Population source for years 2010-2030 are utility specific projections based on GIS Associates Population Projection Model, "The Small Area Population Projection Methodology of the Southwest Florida Water Management District," GIS Associates, February 2009.

(4) For utilities with at least 0.1 mgd average annual withdrawal (i.e., the utilities individually listed in the table), year 2003-2007 average estimated per capita water use rates, as provided in Table A-1 of the District's reports titled *Estimated Water Use, 2003-2007* were used to project demands. See footnotes 6 and 8 for descriptions of the per capita used for the Domestic Self-Supply and Small Utility.

(5) Computed as projected population multiplied by 2001-2005 average per capita water use.

(6) County residential per capita rate from the District's reports titled *Estimated Water Use, 2003-2007* was used to calculate average estimated 2003-2007 usage, Table A-2. If a county residential per capita rate was not available, the District's 2003-2007 average residential per capita rate was used.

(7) 1-10 Drought Year Demand is calculated as 1.06 x Projected Future Water Use.

(8) Small Utility population is the "Additional Population" of Table 1, *2005 Estimated Water Use, District (June 2007)*. Small Utility 2005 Population Unit Use (Per Capita) is defined as follows: [the sum of "Estimated Water Use" and "Reported Water Use" on Table 1] divided by [the "Additional Population" from Table 1] of the District's reports titled *Estimated Water Use (2003-2007)*.

(9) Additional Irrigation Demand is defined as water demand from residential irrigation wells utilized by residents that depend upon a centralized system for indoor water needs. See attached table.

(10) The City of Northport supplied acceptable alternative methodology demonstrating the conversion of existing DSS residents and an increase in per capita due to changing utility demographics during the water use permit renewal evaluations for Regulatory.

Water Supply Assessment
Public Supply Population and Demand Projections
Southwest Florida Water Management District
04/21/2009 DRAFT RWSP Update

TABLE 18. SUMTER COUNTY POPULATION ESTIMATES AND WATER DEMAND PROJECTIONS

	(1)	(2)	(3)					(4)	(5)				
	ESTIMATED 2005 POP	ESTIMATED 2005 WITHDRAWAL (MGD)	2010	2015	2020	2025	2030	2003-2007 AVG GPCD	2010	2015	2020	2025	2030
(6) Domestic-Self Supply	22,695	3.291	25,855	28,863	34,125	40,374	57,729	145	3.749	4.185	4.948	5.854	8.371
(8) Small Utility	1,962	0.361	1,997	1,997	1,997	1,997	1,997	184	0.367	0.367	0.367	0.367	0.367
Lake Panasoffkee Water Assoc. Inc. (1368)	4,380	0.337	5,008	5,202	5,770	6,570	6,816	77	0.386	0.401	0.444	0.506	0.525
Continental Country Club RO Inc. (2622)	2,906	0.427	2,906	2,921	2,961	3,122	3,204	147	0.427	0.429	0.435	0.459	0.471
City of Bushnell (6519)	2,119	0.394	4,639	4,790	5,182	6,218	6,828	186	0.863	0.891	0.964	1.157	1.270
City of Webster (7185)	819	0.093	1,364	1,431	1,627	1,702	1,800	114	0.155	0.163	0.185	0.194	0.205
Cedar Acres, Inc. (7799)	637	0.045	649	707	915	1,203	1,293	70	0.045	0.049	0.064	0.084	0.091
City of Wildwood (8135)	12,450	2.079	16,764	21,027	29,781	32,545	33,274	167	2.800	3.512	4.973	5.435	5.557
City of Center Hill (8193)	983	0.069	1,621	1,666	1,816	2,081	2,526	70	0.113	0.117	0.127	0.146	0.177
Sumter WCA / Villages WCA / N Sumter (13005)	33,420	7.252	65,145	75,443	88,069	88,069	88,069	217	14.136	16.371	19.111	19.111	19.111
(9) Additional Irrigation Demand	707	0.212	1,081	1,236	1,478	1,578	1,747		0.324	0.371	0.444	0.473	0.524
Total County	82,371	14.561	125,948	144,047	172,243	183,881	203,536		23.367	26.856	32.064	33.786	36.668
(7) 1-10 Drought Year Demand									24.769	28.468	33.987	35.814	38.868

Notes:

MGD = million gallons per day

(1) From SWFWMD, 2005 *Estimated Water Use Report*, Table A-1 (June 2007).

(2) Estimated using average 2003-2007 GPCD, as provided in Table A-1 of the District's reports titled *Estimated Water Use, 2003-2007*.

(3) Projected County Population source for years 2010-2030 are utility specific projections based on GIS Associates Population Projection Model, "The Small Area Population Projection Methodology of the Southwest Florida Water Management District," GIS Associates, February 2009.

(4) For utilities with at least 0.1 mgd average annual withdrawal (i.e., the utilities individually listed in the table), year 2003-2007 average estimated per capita water use rates, as provided in Table A-1 of the District's reports titled *Estimated Water Use, 2003-2007* were used to project demands. See footnotes 6 and 8 for descriptions of the per capita used for the Domestic Self-Supply and Small Utility.

(5) Computed as projected population multiplied by 2001-2005 average per capita water use.

(6) County residential per capita rate from the District's reports titled *Estimated Water Use, 2003-2007* was used to calculate average estimated 2003-2007 usage, Table A-2. If a county residential per capita rate was not available, the District's 2003-2007 average residential per capita rate was used.

(7) 1-10 Drought Year Demand is calculated as 1.06 x Projected Future Water Use.

(8) Small Utility population is the "Additional Population" of Table 1, 2005 *Estimated Water Use, District (June 2007)*. Small Utility 2005 Population Unit Use (Per Capita) is defined as follows: [the sum of "Estimated Water Use" and "Reported Water Use" on Table 1] divided by [the "Additional Population" from Table 1] of the District's reports titled *Estimated Water Use (2003-2007)*.

(9) Additional Irrigation Demand is defined as water demand from residential irrigation wells utilized by residents that depend upon a centralized system for indoor water needs. See attached table.

Water Supply Assessment
Public Supply Population and Demand Projections
Southwest Florida Water Management District
04/21/2009 DRAFT RWSP Update

TABLE 19. DISTRICT TOTAL POPULATION ESTIMATES AND WATER DEMAND PROJECTIONS

	(1)	(2)	(3)					(4)	(5)				
	ESTIMATED 2005 POP	ESTIMATED 2005 WITHDRAWAL (MGD)	PROJECTED POPULATION					2003-2007 GPCD	PROJECTED WATER DEMANDS (MGD)				
			2010	2015	2020	2025	2030		2010	2015	2020	2025	2030
Domestic-Self Supply	276,735	29.068	321,768	359,482	409,386	505,628	625,396	104	33.403	37.246	42.553	51.586	63.169
Small Utility	101,417	12.791	112,411	123,650	133,275	142,730	151,263	126	14.219	15.627	16.842	18.019	19.065
Large Utility	4,443,115	508.929	5,042,975	5,415,049	5,752,485	6,034,629	6,290,039	116	586.715	633.847	677.212	712.454	744.365
(6) Additional Irrigation Demand	80,409	24.123	91,348	98,369	104,990	111,458	117,858		27.404	29.511	31.497	33.437	35.357
Total District	4,821,267	574.911	5,477,154	5,898,181	6,295,146	6,682,987	7,066,698	120	661.741	716.232	768.105	815.497	861.956
1-10 Drought Year Demand									701.445	759.206	814.191	864.426	913.673

Notes:

MGD = million gallons per day

(1) Sum of County Populations from Tables 4-22A through 4-37A

(2) Sum of County Withdrawals from Tables 4-22A through 4-37A

(3) Sum of County Projected Populations from Tables 4-22A through 4-37A

(4) Calculated as the average per capita use rate from the sum of all County population, by category, and that category's associated use. For example, the 2010 District-wide Domestic Self Supply projected use of 33.404 mgd divided by the associated population of 321,780 yields a per capita rate of 104 gpcd. Rounding errors account for nominal discrepancies.

(5) Sum of County Projected Future Water Use from Tables 4-22A through 4-37A

(6) Additional Irrigation Demand is defined as water demand from residential irrigation wells utilized by residents that depend upon a centralized system for indoor water needs. See attached table.

Water Supply Assessment
Public Supply Population and Demand Projections
Southwest Florida Water Management District
04/21/2009 DRAFT RWSP Update

TABLE 20. DISTRICT TOTAL WATER DEMAND PROJECTIONS BY REGION

Water Use by Planning Region	2005		2010		2015		2020		2025		2030		Change in Demand		% Change	
	Avg	1-in-10	Avg	1-in-10	Avg	1-in-10	Avg	1-in-10	Avg	1-in-10	Avg	1-in-10	Avg	1-in-10	Avg	1-10
SWUCA	213.822	226.651	251.915	267.030	277.900	294.574	301.851	319.962	326.107	345.674	348.954	369.891	135.132	143.240	63%	63%
Northern Tampa Bay (NTB) Area	271.539	287.832	294.339	311.999	308.531	327.043	321.502	340.792	333.580	353.595	344.954	365.652	73.415	77.820	27%	27%
Southern 10 Counties (Previous RWSP Planning Region)	492.501	522.051	555.354	588.676	596.798	632.606	634.836	672.926	672.249	712.584	707.575	750.030	215.074	227.979	44%	44%
2010 RWSP Northern Planning Region	82.410	87.354	106.387	112.770	119.434	126.600	133.269	141.265	143.248	151.843	154.380	163.643	71.971	76.289	87%	87%
2010 RWSP Tampa Bay Planning Region	299.179	317.129	325.332	344.851	342.733	363.297	359.349	380.910	376.134	398.702	390.667	414.107	91.488	96.978	31%	31%
2010 RWSP Heartland Planning Region	92.255	97.790	115.881	122.834	130.593	138.428	143.549	152.162	156.128	165.496	168.911	179.046	76.656	81.256	83%	83%
2010 RWSP Southern Planning Region	101.067	107.131	114.142	120.990	123.472	130.881	131.938	139.855	139.987	148.386	147.997	156.877	46.930	49.746	46%	46%
16-County District Total	574.911	609.405	661.741	701.445	716.232	759.206	768.105	814.191	815.497	864.426	861.956	913.673	287.045	304.268	50%	50%

Hillsborough County SWUCA Water Use Calculation:

Year 2005 SWUCA water use is 19.84% of total county water use; 2005 EWU Report, Table A-1, Permittees in the SWUCA
Assumes 100% of those utilities' service areas in SWUCA (includes south-central)
2025 & 2030 36% total county, based on TBW Long-Term Demand Forecasting Model, June 2004; 2005 - 2025 increased by 20% of 2025 growth per five year increment

Polk County SWUCA Water Use Calculation:

Year 2005 SWUCA water use is 90.77% of total county water use; 2005 EWU Report, Table A-1, Permittees in the SWUCA
This percentage is assumed to remain constant through the planning horizon

NTB Area = Hillsborough minus portion in SWUCA, 100% Pinellas, and 100% Pasco

Southern 10 Counties = Charlotte, DeSoto, Hardee, Highlands, Hillsborough, Manatee, Pasco, Pinellas, Polk, Sarasota

2010 RWSP Planning Regions

Northern Planning Region = Citrus, Hernando, Lake, Levy, Marion, Sumter

Tampa Bay Planning Region = Hillsborough, Pasco, Pinellas

Heartland Planning Region = Hardee, Highlands, Polk

Southern Planning Region = Charlotte, DeSoto, Manatee, Sarasota

Water Supply Assessment
 Public Supply Population and Demand Projections
 Southwest Florida Water Management District
 04/21/2009 DRAFT RWSP Update

TABLE 21. RESIDENTIAL IRRIGATION WELL DATA AND CALCULATIONS

	Functional Population (1)		2005 - 2010 Annual Exponential Pop. Growth Rate (2)	2002 Irrigation Wells (3)		2005 Irrigation Well Estimates (4)	
	2005	2010		# Wells	Withdrawal (mgd)	# Wells	Withdrawal (mgd)
Charlotte	162,671	175,816	0.01554	3,912	1.17	4,099	1.23
Citrus	132,265	164,429	0.04353	2,409	0.72	2,745	0.82
DeSoto	31,638	37,490	0.03394	565	0.17	626	0.19
Hardee	26,311	31,314	0.03482	538	0.16	597	0.18
Hernando	154,953	176,258	0.02577	8,640	2.59	9,334	2.80
Highlands	86,412	98,650	0.02649	8,403	2.52	9,098	2.73
Hillsborough	1,213,686	1,348,606	0.02108	6,113	1.83	6,512	1.95
Lake	658	720	0.01801	15	0.00	16	0.00
Levy	21,368	26,290	0.04146	107	0.03	121	0.04
Manatee	350,230	412,567	0.03276	3,806	1.14	4,199	1.26
Marion	87,860	114,119	0.05230	1,069	0.32	1,251	0.38
Pasco	448,078	514,949	0.02782	10,819	3.25	11,761	3.53
Pinellas	1,075,131	1,116,794	0.00760	11,996	3.60	12,273	3.68
Polk	537,474	688,177	0.04943	4,231	1.27	4,907	1.47
Sarasota	410,161	445,027	0.01632	11,582	3.47	12,163	3.65
Sumter	82,371	125,948	0.08493	548	0.16	707	0.21

General Note: Residential irrigation well data was developed by a consultant (*Southwest Florida Water Management District Irrigation Well Inventory*, August 12, 2004, D.L. Smith and Associates). The results of the study included the estimated number of residential irrigation wells and associated withdrawal within the District as of 2002. To develop an estimate of the number of residential irrigation wells in 2005, it was assumed that the number of irrigation wells and associated withdrawal is increasing proportionally with county population from the 2005 to 2010 time frame. Calculations are presented in this table.

(1) From Table 4-21A of this Technical Memorandum

(2) Growth Rates calculations are based on the assumption that county 2005 - 2010 county population growth patterns are growing exponentially and consistently with a pattern described by the exponential growth rate expression as follows:

$$N = N_0 e^{rt}, \text{ where:}$$

N = Final Population

N_0 = Initial Population

e = the exponential (2.71828....)

r = growth rate

t = length of time

This column solves for the county growth rates (r) by defining variables as follows: N = 2010 county population, N_0 = 2005 county population, t = 5 years; r = 2005 - 2010 Annual Exponential Population Growth Rate, in years, = $[\ln(N/N_0)] / [t \ln(e)]$

(3) From *Southwest Florida Water Management District Irrigation Well Inventory*, August 12, 2004, D.L. Smith and Associates, Table 4.

(4) The # wells in 2005 is calculated by inserting the annual exponential growth rate calculated for population growth between 2005 and 2010 and the # irrigation wells into the exponential growth rate expression and solving for # wells in 2005, as follows

$$N_0 = N * (e^{-rt}), \text{ where:}$$

N_0 = # irrigation wells in 2005

N = # irrigation wells in 2002

e = the exponential (2.71828....)

r = growth rate (calculated in column "2005 - 2010 Annual Exponential Pop. Growth Rate")

t = 3 years

Water Supply Assessment
Public Supply Population and Demand Projections
Southwest Florida Water Management District
04/21/2009 DRAFT RWSP Update

DISTRICT TOTAL PUBLIC SUPPLY WATER DEMAND PROJECTIONS BY COUNTY

County	2005		2010		2015		2020		2025		2030		Change in Demand		% Change	
	Avg	1-10	Avg	1-10	Avg	1-10	Avg	1-10	Avg	1-10	Avg	1-10	Avg	1-10	Avg	1-10
Charlotte	18.198	19.289	19.975	21.174	21.435	22.721	22.779	24.146	24.051	25.494	25.218	26.731	7.020	7.442	38.6%	38.6%
Citrus	22.001	23.321	27.537	29.189	30.379	32.201	32.910	34.884	35.308	37.426	37.455	39.702	15.454	16.381	70.2%	70.2%
DeSoto	3.149	3.338	3.729	3.953	4.022	4.263	4.192	4.444	4.342	4.602	4.481	4.750	1.332	1.412	42.3%	42.3%
Hardee	2.941	3.117	3.705	3.928	3.761	3.987	3.817	4.046	3.884	4.117	3.919	4.154	0.978	1.037	33.3%	33.3%
Hernando	28.145	29.834	31.643	33.541	34.862	36.953	37.926	40.202	40.592	43.027	43.415	46.020	15.270	16.186	54.3%	54.3%
Highlands	11.963	12.680	13.576	14.391	14.517	15.388	15.319	16.238	16.151	17.120	16.918	17.933	4.955	5.253	41.4%	41.4%
Hillsborough	139.311	147.670	153.355	162.556	162.815	172.584	171.249	181.524	180.741	191.586	189.515	200.886	50.204	53.216	36.0%	36.0%
Lake	0.057	0.061	0.063	0.067	0.065	0.069	0.067	0.071	0.068	0.072	0.070	0.074	0.013	0.014	22.3%	22.3%
Levy	2.548	2.701	3.117	3.304	3.396	3.600	3.654	3.873	3.917	4.152	4.161	4.410	1.613	1.709	63.3%	63.3%
Manatee	40.787	43.235	48.233	51.127	52.006	55.126	55.530	58.862	58.880	62.413	62.041	65.763	21.253	22.529	52.1%	52.1%
Marion	15.098	16.004	20.661	21.900	23.877	25.309	26.649	28.248	29.577	31.351	32.611	34.568	17.513	18.564	116.0%	116.0%
Pasco	51.884	54.997	59.850	63.441	65.875	69.828	72.075	76.399	78.070	82.755	83.733	88.757	31.849	33.760	61.4%	61.4%
Pinellas	107.984	114.463	112.127	118.855	114.042	120.885	116.025	122.987	117.323	124.362	117.419	124.464	9.435	10.002	8.7%	8.7%
Polk	77.351	81.993	98.600	104.516	112.314	119.053	124.413	131.878	136.093	144.259	148.075	156.959	70.723	74.966	91.4%	91.4%
Sarasota	38.933	41.269	42.205	44.737	46.010	48.770	49.437	52.404	52.714	55.877	56.257	59.633	17.324	18.363	44.5%	44.5%
Sumter	14.561	15.434	23.367	24.769	26.856	28.468	32.064	33.987	33.786	35.814	36.668	38.868	22.108	23.434	151.8%	151.8%
Total	574.911	609.405	661.741	701.445	716.232	759.206	768.105	814.191	815.497	864.426	861.956	913.673	287.045	304.268	49.9%	49.9%