

Example for Polk Water Supply Plan
Public Supply Population and Demand Projections
Southwest Florida Water Management District
 Draft 2009 Update
 Monday, April 20, 2009

AMENDED / ABBREVIATED TABLE 4-35A. POLK COUNTY MUNICIPAL POPULATION ESTIMATES AND WATER DEMAND PROJECTIONS

	(1)		(2)	(3)					(4)	(5)					PERMITTED AAD (MGD) CURRENT	DEFICIT PERMITTED LESS 2030 (MGD)	SURPLUS PERMITTED LESS 2030 (MGD)	TOTAL PERMITTED LESS 2030 (MGD)
	ESTIMATED 2005 POP	PERCENT OF 2005 POP	Estimated 2005 WITHDRAWAL (MGD)	PROJECTED POPULATION					2001-2005 AVG GPCD	PROJECTED WATER DEMANDS (MGD)								
				2010	2015	2020	2025	2030		2010	2015	2020	2025	2030				
(6) City of Bartow (341)	20,047	3.75	3.208	23,868	32,272	39,901	47,991	57,721	160	3.819	5.164	6.384	7.679	9.235	7.900	-1.335		-1.335
City of Fort Meade (645)	6,942	1.30	0.757	7,929	8,693	9,397	10,017	10,587	109	0.864	0.948	1.024	1.092	1.154	1.014	-0.140		-0.140
Town of Lake Hamilton (2332)	2,408	0.45	0.344	2,750	3,015	3,260	3,475	3,672	143	0.393	0.431	0.466	0.497	0.525	0.484	-0.041		-0.041
(6) City of Winter Haven (4607)	65,766	12.31	9.733	85,135	95,000	105,676	116,149	127,660	148	12.600	14.060	15.640	17.190	18.894	12.326	-6.568		-6.568
(6) City of Lake Wales (4658)	20,140	3.77	2.779	22,892	26,106	29,898	32,943	35,725	138	3.159	3.603	4.126	4.546	4.930	3.821	-1.109		-1.109
City of Lakeland (4912)	166,345	31.13	23.787	189,998	208,306	225,167	240,029	253,690	143	27.170	29.788	32.199	34.324	36.278	35.030	-1.248		-1.248
(6)(7) Polk County / NERUSA & Oak Hill (6509,SFWMD)	60,366	11.30	8.092	93,397	109,813	126,229	143,990	164,233	134	12.520	14.708	16.907	19.287	22.000	13.950	-8.050		-8.050
(6) City of Davenport (5750)	3,978	0.74	0.597	5,297	6,042	6,875	7,866	9,286	150	0.795	0.906	1.031	1.180	1.393	1.002	-0.391		-0.391
(6) City of Frostproof (5870)	2,900	0.54	0.363	5,581	12,554	14,632	18,664	23,805	125	0.698	1.569	1.829	2.333	2.976	1.338	-1.638		-1.638
(6) Town of Dundee (5893)	3,728	0.70	0.488	4,859	5,527	5,948	6,435	6,963	131	0.637	0.724	0.779	0.843	0.912	1.831		0.919	0.919
City of Mulberry (6124)	4,878	0.91	0.502	5,572	6,108	6,603	7,039	7,439	103	0.574	0.629	0.680	0.725	0.766	1.120		0.354	0.354
(6) Polk County / NWRUSA (6505)	23,100	4.32	3.026	44,121	48,313	49,672	51,355	53,838	131	5.780	6.329	6.507	6.728	7.053	5.085	-1.968		-1.968
(6) Polk County / SWRUSA (6506)	29,447	5.51	3.534	41,812	48,560	53,542	57,220	59,075	120	5.017	5.827	6.425	6.866	7.089	4.948	-2.141		-2.141
Polk County / CRUSA (6507)	12,230	2.29	1.480	13,969	15,315	16,555	17,647	18,652	121	1.690	1.853	2.003	2.135	2.257	2.271		0.014	0.014
(6) Polk County / SERUSA (6508)	5,900	1.10	0.732	6,638	11,567	13,644	14,266	14,915	124	0.823	1.434	1.692	1.769	1.849	1.367	-0.482		-0.482
(6) City of Lake Alfred (6624)	5,584	1.04	0.709	8,262	8,816	9,546	10,289	10,910	127	1.049	1.120	1.212	1.307	1.386	1.381	-0.005		-0.005
(6) City of Eagle Lake (6920)	2,502	0.47	0.283	7,113	8,065	9,047	9,407	9,597	113	0.804	0.911	1.022	1.063	1.084	0.947	-0.137		-0.137
(6) City of Auburndale (7119)	26,129	4.89	4.782	31,210	33,623	37,134	39,512	41,831	183	5.711	6.153	6.796	7.231	7.655	7.036	-0.619		-0.619
Polk County / ERUSA (8054)	4,584	0.86	0.550	5,236	5,740	6,205	6,615	6,991	120	0.628	0.689	0.745	0.794	0.839	1.065		0.226	0.226
(6) City of Polk City (8468)	2,200	0.41	0.262	8,302	10,255	11,593	12,226	12,437	119	0.988	1.220	1.380	1.455	1.480	1.187	-0.293		-0.293
(6) City of Haines City (8522)	22,650	4.24	3.715	29,134	33,018	37,658	42,184	44,858	164	4.778	5.415	6.176	6.918	7.357	5.712	-1.645		-1.645
(6) Village of Highland Park (9807)	261		0.103	261	261	261	261	261	394	0.103	0.103	0.103	0.103	0.103	0.092	-0.011		-0.011
Municipal Total	492,085		69.825	643,336	736,970	818,442	895,579	974,147		90.600	103.584	115.126	126.064	137.215	110.907	-27.820	1.513	-26.308

Notes:

MGD = million gallons per day

(1) From SWFWMD, 2005 Estimated Water Use Report, Table A-1 (June 2007). 2005 values listed may vary if permittees that did not originally submit a survey in 2005 provided valid 2005 population data during the Polk County Water Supply Plan review.

(2) Estimated using average 2001-2005 GPCD, as provided in Table A-1 of the District's reports titled *Estimated Water Use, 2001-2005*.

(3) Projected County Population, BEBR adjusted, multiplied by percent of the 2005 Population.

(4) For utilities with at least 0.1 mgd average annual withdrawal (i.e., the utilities individually listed in the table), year 2001-2005 average estimated per capita water use rates, as provided in Table A-1 of the District's reports titled *Estimated Water Use, 2001-2005* were used to project demands.

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

(6) The City of Bartow, City of Winter Haven, City of Lake Wales, City of Davenport, City of Frostproof, Town of Dundee, City of Lake Alfred, City of Eagle Lake, City of Auburndale, City of Polk City, City of Haines City, Village of Highland Park and Polk County NERUSA, NWRUSA, SWRUSA and SERUSA supplied acceptable methodology (GIS methods) for future population and demand projections during either the water use permit renewal evaluations, Central Florida Coordination Area Planning evaluations, and/or Polk County Water Supply Planning evaluations. Utilization of the District's GIS Associates population model was incorporated and projections are within the BEBR medium - high total county range.

(7) The population and demand projections shown include those for the Polk County Oak Hill SFWMD permitted service area, the two systems are interconnected. The SFWMD Oak Hill Permit is for 3.031 mgd and the SWFWMD NERUSA permit is for 10.919 mgd.