

Draft March 2010 Municipal Water Demand Forecasts for the Lower Flint-Ochlockonee Water Planning Region

LFO1. Municipal Per Capita Water Use Rate

COUNTY	Public Supplied ¹	Base Year	Self Supplied ²
Baker	129	2005	75
Calhoun	151	2005	75
Colquitt	158	2005	75
Decatur	199	2005	75
Dougherty	181	2005	75
Early	277	2005	75
Grady	143	2005	75
Lee	119	2005	75
Miller	282	2005	75
Mitchell	172	2005	75
Seminole	159	2005	75
Terrell	176	2005	75
Thomas	171	2005	75
Worth	133	2005	75

¹ Based on "Water Use in Georgia 2005" (USGS) or input from local water providers

² Based on data from "Water Use in Georgia 2005" for residential wells or input from local water providers

LFO2. Total Municipal Water Demand (mgd), Average Annual Demand (AAD)

COUNTY	2010	2020	2030	2040	2050
Baker	0.33	0.35	0.35	0.34	0.33
Calhoun	0.89	0.90	0.91	0.91	0.91
Colquitt	5.66	6.57	7.50	8.24	8.88
Decatur	4.04	4.41	4.76	5.08	5.38
Dougherty	16.96	16.97	16.82	16.66	16.49
Early	2.06	2.02	1.98	1.95	1.92
Grady	2.87	3.31	3.74	4.06	4.33
Lee	3.49	4.74	6.21	7.32	8.12
Miller	0.97	0.97	0.93	0.88	0.81
Mitchell	3.13	3.35	3.52	3.64	3.73
Seminole	1.02	1.09	1.12	1.18	1.30
Terrell	1.50	1.45	1.38	1.31	1.25
Thomas	6.81	7.79	8.83	9.92	11.06
Worth	2.21	2.51	2.77	2.94	3.08
Grand Total	51.96	56.42	60.81	64.43	67.58

These draft forecasts are for discussion and use in regional water planning only. They reflect an application of current management practices into the future. As such, Councils may opt to adjust this current application.

4/6/2010

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LFO2.1 Total Public Supply Water Demand (mgd), AAD

COUNTY	2010	2020	2030	2040	2050
Baker	0.10	0.11	0.11	0.11	0.10
Calhoun	0.82	0.83	0.85	0.85	0.85
Colquitt	4.09	4.77	5.46	6.03	6.52
Decatur	2.95	3.23	3.50	3.75	3.99
Dougherty	16.68	16.69	16.55	16.39	16.24
Early	1.63	1.60	1.58	1.56	1.54
Grady	1.96	2.26	2.57	2.80	3.00
Lee	2.11	2.87	3.77	4.46	4.96
Miller	0.69	0.69	0.67	0.63	0.59
Mitchell	2.29	2.46	2.59	2.69	2.77
Seminole	0.63	0.67	0.70	0.74	0.82
Terrell	1.27	1.24	1.18	1.12	1.07
Thomas	5.84	6.69	7.61	8.56	9.57
Worth	1.33	1.51	1.68	1.79	1.88
Grand Total	42.39	45.63	48.80	51.49	53.89

LFO2.2 Public Supply Surface Water Demand (mgd), AAD

COUNTY	2010	2020	2030	2040	2050
Baker	0.00	0.00	0.00	0.00	0.00
Calhoun	0.00	0.00	0.00	0.00	0.00
Colquitt	0.00	0.00	0.00	0.00	0.00
Decatur	0.00	0.00	0.00	0.00	0.00
Dougherty	0.00	0.00	0.00	0.00	0.00
Early	0.00	0.00	0.00	0.00	0.00
Grady	0.00	0.00	0.00	0.00	0.00
Lee	0.00	0.00	0.00	0.00	0.00
Miller	0.00	0.00	0.00	0.00	0.00
Mitchell	0.00	0.00	0.00	0.00	0.00
Seminole	0.00	0.00	0.00	0.00	0.00
Terrell	0.00	0.00	0.00	0.00	0.00
Thomas	0.00	0.00	0.00	0.00	0.00
Worth	0.00	0.00	0.00	0.00	0.00
Grand Total	0.00	0.00	0.00	0.00	0.00

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4/6/2010

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LFO2.3 Public Supply Groundwater Demand (mgd), AAD

COUNTY	2010	2020	2030	2040	2050
Baker	0.10	0.11	0.11	0.11	0.10
Calhoun	0.82	0.83	0.85	0.85	0.85
Colquitt	4.09	4.77	5.46	6.03	6.52
Decatur	2.95	3.23	3.50	3.75	3.99
Dougherty	16.68	16.69	16.55	16.39	16.24
Early	1.63	1.60	1.58	1.56	1.54
Grady	1.96	2.26	2.57	2.80	3.00
Lee	2.11	2.87	3.77	4.46	4.96
Miller	0.69	0.69	0.67	0.63	0.59
Mitchell	2.29	2.46	2.59	2.69	2.77
Seminole	0.63	0.67	0.70	0.74	0.82
Terrell	1.27	1.24	1.18	1.12	1.07
Thomas	5.84	6.69	7.61	8.56	9.57
Worth	1.33	1.51	1.68	1.79	1.88
Grand Total	42.39	45.63	48.80	51.49	53.89

LFO2.4 Self Supply Groundwater Demand (mgd), AAD

COUNTY	2010	2020	2030	2040	2050
Baker	0.23	0.24	0.24	0.24	0.22
Calhoun	0.06	0.06	0.06	0.06	0.06
Colquitt	1.57	1.80	2.04	2.21	2.36
Decatur	1.10	1.18	1.26	1.33	1.39
Dougherty	0.28	0.28	0.27	0.26	0.26
Early	0.43	0.42	0.40	0.39	0.38
Grady	0.91	1.04	1.17	1.26	1.33
Lee	1.38	1.87	2.44	2.86	3.17
Miller	0.28	0.28	0.26	0.24	0.22
Mitchell	0.84	0.89	0.93	0.95	0.96
Seminole	0.39	0.41	0.42	0.44	0.48
Terrell	0.23	0.22	0.20	0.19	0.18
Thomas	0.97	1.09	1.23	1.36	1.49
Worth	0.89	1.00	1.09	1.15	1.19
Grand Total	9.56	10.79	12.01	12.95	13.69

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4/6/2010

Draft March 2010 Municipal Wastewater Demand Forecasts for the Lower Flint-Ochlockonee (LFO) Water Planning Region

LFO3. Total Municipal Wastewater Produced (mgd), max monthly demand

COUNTY	2010	2020	2030	2040	2050
Baker	0.27	0.29	0.29	0.28	0.27
Calhoun	0.76	0.77	0.78	0.78	0.77
Colquitt	5.26	6.10	6.97	7.66	8.26
Decatur	3.75	4.09	4.41	4.71	4.99
Dougherty	16.14	16.15	16.01	15.86	15.70
Early	1.91	1.87	1.84	1.81	1.78
Grady	2.62	3.02	3.41	3.71	3.96
Lee	3.06	4.15	5.44	6.42	7.13
Miller	0.90	0.89	0.86	0.81	0.75
Mitchell	2.86	3.07	3.22	3.33	3.42
Seminole	0.81	0.86	0.89	0.93	1.03
Terrell	1.41	1.36	1.30	1.23	1.17
Thomas	6.37	7.28	8.27	9.28	10.35
Worth	2.01	2.28	2.51	2.67	2.80
Grand Total	48.13	52.20	56.20	59.50	62.37

LFO3.1 Municipal Septic Wastewater (mgd), max month

COUNTY	2010	2020	2030	2040	2050
Baker	0.27	0.29	0.29	0.28	0.27
Calhoun	0.32	0.32	0.32	0.32	0.32
Colquitt	2.59	2.99	3.40	3.72	4.00
Decatur	1.87	2.04	2.19	2.33	2.45
Dougherty	2.72	2.72	2.70	2.67	2.64
Early	0.97	0.95	0.93	0.91	0.89
Grady	1.55	1.77	2.00	2.17	2.31
Lee	2.03	2.75	3.60	4.24	4.70
Miller	0.61	0.61	0.58	0.55	0.50
Mitchell	1.64	1.75	1.83	1.89	1.93
Seminole	0.67	0.71	0.73	0.77	0.84
Terrell	0.61	0.58	0.55	0.53	0.50
Thomas	2.88	3.29	3.72	4.17	4.64
Worth	1.24	1.40	1.54	1.63	1.71
Grand Total	19.96	22.17	24.39	26.18	27.71

LFO3.2 Municipal Septic Wastewater (% of wastewater flow)

COUNTY	2010	2020	2030	2040	2050
Baker	100%	100%	100%	100%	100%
Calhoun	42%	42%	42%	42%	42%
Colquitt	49%	49%	49%	49%	49%
Decatur	50%	50%	50%	50%	50%
Dougherty	17%	17%	17%	17%	17%
Early	51%	51%	51%	51%	51%
Grady	59%	59%	59%	59%	59%
Lee	66%	66%	66%	66%	66%
Miller	68%	68%	68%	68%	68%
Mitchell	57%	57%	57%	57%	57%
Seminole	83%	83%	83%	83%	83%
Terrell	43%	43%	43%	43%	43%
Thomas	45%	45%	45%	45%	45%
Worth	62%	62%	62%	62%	62%
Grand Total	41%	42%	43%	44%	44%

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4/6/2010

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LFO3.3 Municipal Centralized Wastewater (mgd), max month

COUNTY	2010	2020	2030	2040	2050
Baker	0.00	0.00	0.00	0.00	0.00
Calhoun	0.44	0.45	0.45	0.46	0.45
Colquitt	2.67	3.11	3.57	3.93	4.26
Decatur	1.88	2.06	2.23	2.39	2.54
Dougherty	13.42	13.43	13.32	13.19	13.06
Early	0.94	0.92	0.91	0.90	0.89
Grady	1.08	1.24	1.41	1.54	1.65
Lee	1.03	1.40	1.84	2.18	2.42
Miller	0.29	0.29	0.28	0.26	0.25
Mitchell	1.23	1.32	1.39	1.44	1.48
Seminole	0.14	0.15	0.16	0.17	0.18
Terrell	0.80	0.78	0.74	0.71	0.68
Thomas	3.49	4.00	4.55	5.11	5.72
Worth	0.77	0.88	0.97	1.03	1.09
Grand Total	28.17	30.03	31.81	33.32	34.67

LFO3.4 Municipal Centralized Wastewater (% of wastewater flow)

COUNTY	2010	2020	2030	2040	2050
Baker	0%	0%	0%	0%	0%
Calhoun	58%	58%	58%	58%	58%
Colquitt	51%	51%	51%	51%	51%
Decatur	50%	50%	50%	50%	50%
Dougherty	83%	83%	83%	83%	83%
Early	49%	49%	49%	49%	49%
Grady	41%	41%	41%	41%	41%
Lee	34%	34%	34%	34%	34%
Miller	32%	32%	32%	32%	32%
Mitchell	43%	43%	43%	43%	43%
Seminole	17%	17%	17%	17%	17%
Terrell	57%	57%	57%	57%	57%
Thomas	55%	55%	55%	55%	55%
Worth	38%	38%	38%	38%	38%
Grand Total	59%	58%	57%	56%	56%

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4/6/2010