

Draft March 2010 Municipal Water Demand Forecasts for the Upper Flint (UFL) Water Planning Region

UFL1. Municipal Per Capita Water Use Rate

COUNTY	Public Supplied ¹	Base Year	Self Supplied ²
Crisp	122	2005	75
Dooly	163	2005	75
Macon	162	2005	75
Marion	191	2005	75
Meriwether	143	2005	75
Pike	142	2005	75
Schley	183	2000	75
Spalding	163	2005	75
Sumter	143	2005	75
Talbot	132	2005	75
Taylor	166	2005	75
Upson	233	2005	75
Webster	137	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

UFL2. Total Municipal Water Demand (mgd), Average Annual Demand (AAD)

COUNTY	2010	2020	2030	2040	2050
Crisp	2.53	2.79	3.06	3.42	3.80
Dooly	1.55	1.57	1.61	1.65	1.70
Macon	1.66	1.68	1.68	1.67	1.64
Marion	1.12	1.22	1.28	1.33	1.38
Meriwether	2.44	2.77	3.09	3.36	3.59
Pike	1.68	2.17	2.76	3.20	3.52
Schley	0.73	0.82	0.90	0.96	1.02
Spalding	9.66	11.57	13.77	16.24	19.11
Sumter	3.89	4.35	4.82	5.30	5.80
Talbot	0.75	0.78	0.78	0.79	0.80
Taylor	1.09	1.14	1.19	1.24	1.30
Upson	4.03	4.16	4.22	4.22	4.18
Webster	0.24	0.26	0.27	0.26	0.25
Grand Total	31.36	35.28	39.42	43.65	48.08

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.

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UFL2.1 Total Public Supply Water Demand (mgd), AAD

COUNTY	2010	2020	2030	2040	2050
Crisp	2.16	2.38	2.62	2.93	3.26
Dooly	1.25	1.27	1.31	1.35	1.39
Macon	1.20	1.22	1.22	1.22	1.20
Marion	0.98	1.06	1.12	1.16	1.20
Meriwether	1.44	1.64	1.84	2.02	2.16
Pike	0.59	0.77	0.99	1.15	1.27
Schley	0.67	0.76	0.83	0.89	0.95
Spalding	8.72	10.45	12.46	14.72	17.34
Sumter	2.97	3.33	3.70	4.08	4.48
Talbot	0.62	0.64	0.64	0.66	0.66
Taylor	0.78	0.82	0.86	0.90	0.94
Upson	2.87	2.98	3.04	3.06	3.04
Webster	0.16	0.18	0.18	0.18	0.17
Grand Total	24.40	27.50	30.80	34.30	38.08

UFL2.2 Public Supply Surface Water Demand (mgd), AAD

COUNTY	2010	2020	2030	2040	2050
Crisp	0.00	0.00	0.00	0.00	0.00
Dooly	0.00	0.00	0.00	0.00	0.00
Macon	0.00	0.00	0.00	0.00	0.00
Marion	0.00	0.00	0.00	0.00	0.00
Meriwether	1.44	1.64	1.84	2.02	2.16
Pike	0.59	0.77	0.99	1.15	1.27
Schley	0.00	0.00	0.00	0.00	0.00
Spalding	8.72	10.45	12.46	14.72	17.34
Sumter	0.00	0.00	0.00	0.00	0.00
Talbot	0.00	0.00	0.00	0.00	0.00
Taylor	0.00	0.00	0.00	0.00	0.00
Upson	2.78	2.89	2.94	2.96	2.95
Webster	0.00	0.00	0.00	0.00	0.00
Grand Total	13.53	15.75	18.23	20.85	23.72

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UFL2.3 Public Supply Groundwater Demand (mgd), AAD

COUNTY	2010	2020	2030	2040	2050
Crisp	2.16	2.38	2.62	2.93	3.26
Dooly	1.25	1.27	1.31	1.35	1.39
Macon	1.20	1.22	1.22	1.22	1.20
Marion	0.98	1.06	1.12	1.16	1.20
Meriwether	0.00	0.00	0.00	0.00	0.00
Pike	0.00	0.00	0.00	0.00	0.00
Schley	0.67	0.76	0.83	0.89	0.95
Spalding	0.00	0.00	0.00	0.00	0.00
Sumter	2.97	3.33	3.70	4.08	4.48
Talbot	0.62	0.64	0.64	0.66	0.66
Taylor	0.78	0.82	0.86	0.90	0.94
Upson	0.09	0.09	0.09	0.09	0.09
Webster	0.16	0.18	0.18	0.18	0.17
Grand Total	10.87	11.75	12.57	13.45	14.36

UFL2.4 Self Supply Groundwater Demand (mgd), AAD

COUNTY	2010	2020	2030	2040	2050
Crisp	0.37	0.41	0.44	0.49	0.54
Dooly	0.30	0.30	0.30	0.31	0.31
Macon	0.46	0.46	0.46	0.45	0.44
Marion	0.15	0.16	0.17	0.17	0.17
Meriwether	1.00	1.13	1.25	1.35	1.43
Pike	1.08	1.40	1.77	2.05	2.25
Schley	0.05	0.06	0.06	0.07	0.07
Spalding	0.94	1.12	1.31	1.53	1.77
Sumter	0.92	1.02	1.12	1.22	1.31
Talbot	0.14	0.14	0.14	0.14	0.14
Taylor	0.31	0.32	0.33	0.34	0.36
Upson	1.16	1.18	1.18	1.17	1.14
Webster	0.08	0.08	0.08	0.08	0.08
Grand Total	6.97	7.78	8.62	9.35	10.00

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Draft March 2010 Municipal Wastewater Demand Forecasts for the Upper Flint (UFL) Water Planning Region

UFL3. Total Municipal Wastewater Produced (mgd), max monthly demand

COUNTY	2010	2020	2030	2040	2050
Crisp	2.31	2.55	2.80	3.13	3.48
Dooly	1.47	1.49	1.53	1.57	1.62
Macon	1.33	1.35	1.34	1.32	1.30
Marion	1.05	1.14	1.20	1.24	1.28
Meriwether	2.18	2.47	2.76	3.00	3.21
Pike	1.31	1.69	2.15	2.50	2.74
Schley	0.65	0.73	0.80	0.86	0.91
Spalding	9.19	11.01	13.11	15.46	18.19
Sumter	3.66	4.09	4.53	4.99	5.46
Talbot	0.68	0.70	0.71	0.72	0.72
Taylor	0.92	0.97	1.01	1.05	1.10
Upson	3.81	3.93	3.99	4.00	3.96
Webster	0.21	0.23	0.23	0.23	0.22
Grand Total	28.77	32.35	36.15	40.07	44.19

UFL3.1 Municipal Septic Wastewater (mgd), max month

COUNTY	2010	2020	2030	2040	2050
Crisp	0.99	1.09	1.20	1.33	1.48
Dooly	0.55	0.56	0.57	0.58	0.60
Macon	0.75	0.75	0.75	0.74	0.72
Marion	0.49	0.54	0.56	0.58	0.60
Meriwether	1.56	1.77	1.97	2.14	2.28
Pike	1.21	1.57	1.99	2.31	2.54
Schley	0.45	0.51	0.56	0.60	0.64
Spalding	4.71	5.63	6.70	7.89	9.27
Sumter	1.02	1.13	1.24	1.36	1.47
Talbot	0.56	0.58	0.58	0.59	0.59
Taylor	0.41	0.42	0.44	0.46	0.48
Upson	1.50	1.54	1.55	1.54	1.51
Webster	0.21	0.23	0.23	0.23	0.22
Grand Total	14.41	16.32	18.34	20.35	22.40

UFL3.2 Municipal Septic Wastewater (% of wastewater flow)

COUNTY	2010	2020	2030	2040	2050
Crisp	43%	43%	43%	43%	43%
Dooly	38%	38%	38%	38%	38%
Macon	56%	56%	56%	56%	56%
Marion	47%	47%	47%	47%	47%
Meriwether	72%	72%	72%	72%	72%
Pike	93%	93%	93%	93%	93%
Schley	70%	70%	70%	70%	70%
Spalding	51%	51%	51%	51%	51%
Sumter	28%	28%	28%	28%	28%
Talbot	83%	83%	83%	83%	83%
Taylor	44%	44%	44%	44%	44%
Upson	39%	39%	39%	39%	39%
Webster	100%	100%	100%	100%	100%
Grand Total	50%	50%	51%	51%	51%

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UFL3.3 Municipal Centralized Wastewater (mgd), max month

COUNTY	2010	2020	2030	2040	2050
Crisp	1.32	1.46	1.60	1.80	2.00
Dooly	0.91	0.93	0.96	0.99	1.02
Macon	0.59	0.59	0.59	0.59	0.58
Marion	0.55	0.60	0.63	0.66	0.68
Meriwether	0.62	0.70	0.79	0.86	0.93
Pike	0.10	0.12	0.16	0.18	0.20
Schley	0.20	0.22	0.24	0.26	0.28
Spalding	4.48	5.38	6.41	7.57	8.92
Sumter	2.65	2.96	3.29	3.63	3.99
Talbot	0.12	0.12	0.12	0.12	0.13
Taylor	0.52	0.54	0.57	0.60	0.62
Upson	2.31	2.40	2.44	2.46	2.45
Webster	0.00	0.00	0.00	0.00	0.00
Grand Total	14.35	16.03	17.81	19.72	21.79

UFL3.4 Municipal Centralized Wastewater (% of wastewater flow)

COUNTY	2010	2020	2030	2040	2050
Crisp	57%	57%	57%	57%	57%
Dooly	62%	62%	62%	62%	62%
Macon	44%	44%	44%	44%	44%
Marion	53%	53%	53%	53%	53%
Meriwether	28%	28%	28%	28%	28%
Pike	7%	7%	7%	7%	7%
Schley	30%	30%	30%	30%	30%
Spalding	49%	49%	49%	49%	49%
Sumter	72%	72%	72%	72%	72%
Talbot	17%	17%	17%	17%	17%
Taylor	56%	56%	56%	56%	56%
Upson	61%	61%	61%	61%	61%
Webster	0%	0%	0%	0%	0%
Grand Total	50%	50%	49%	49%	49%

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