

Draft March 2010 Municipal Water Demand Forecasts for the Suwannee-Satilla Water Planning Region

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.

SS1. Municipal Per Capita Water Use Rate

COUNTY	Public Supplied ¹	Base Year	Self Supplied ²
Atkinson	112	2005	100
Bacon	170	2005	100
Ben Hill	180	2005	100
Berrien	131	2005	100
Brantley	93	2005	100
Brooks	137	2005	100
Charlton	123	2005	100
Clinch	148	2005	100
Coffee	153	2005	100
Cook	142	2005	100
Echols	96	2005	100
Irwin	152	2005	100
Lanier	153	2005	100
Lowndes	133	2000	100
Pierce	127	2005	100
Tift	156	2005	100
Turner	140	2005	100
Ware	114	2005	100

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

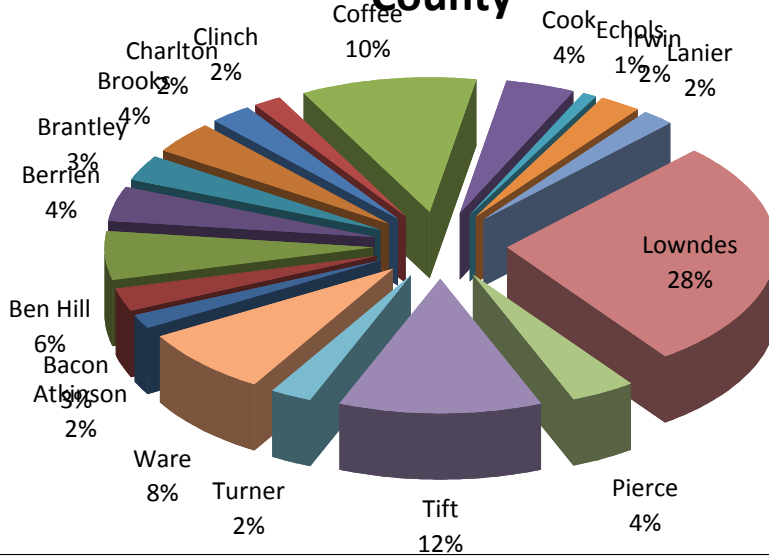
² Based on data from "Water Use in Georgia 2005" for residential wells or input from local water providers

SS2. Total Publicly-Supplied and Self-Supplied Domestic Water Demand (mgd), Average Annual Demand (AAD)

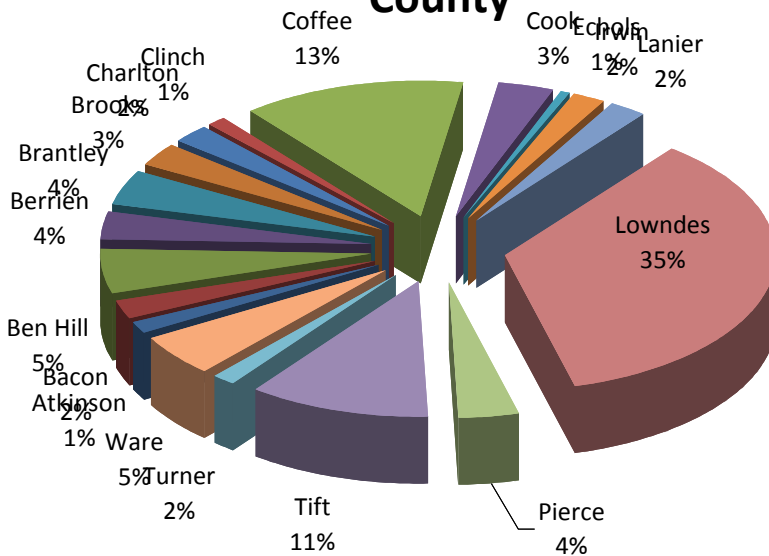
COUNTY	2010	2020	2030	2040	2050
Atkinson	0.88	0.92	0.94	0.98	1.01
Bacon	1.31	1.41	1.50	1.56	1.61
Ben Hill	2.94	3.20	3.45	3.66	3.86
Berrien	2.00	2.22	2.43	2.53	2.60
Brantley	1.60	1.98	2.36	2.71	3.08
Brooks	1.93	2.00	2.03	2.02	1.97
Charlton	1.22	1.42	1.58	1.66	1.73
Clinch	0.87	0.86	0.83	0.81	0.80
Coffee	5.15	6.32	7.65	8.81	9.86
Cook	2.10	2.22	2.31	2.36	2.39
Echols	0.41	0.44	0.46	0.47	0.47
Irwin	1.23	1.27	1.29	1.30	1.29
Lanier	1.04	1.22	1.42	1.58	1.73
Lowndes	13.78	16.27	19.15	22.39	26.08
Pierce	2.01	2.23	2.42	2.53	2.63
Tift	6.08	6.59	7.06	7.48	7.85
Turner	1.17	1.16	1.15	1.15	1.15
Ware	4.02	3.90	3.82	3.73	3.63
Grand Total	49.73	55.62	61.85	67.74	73.75

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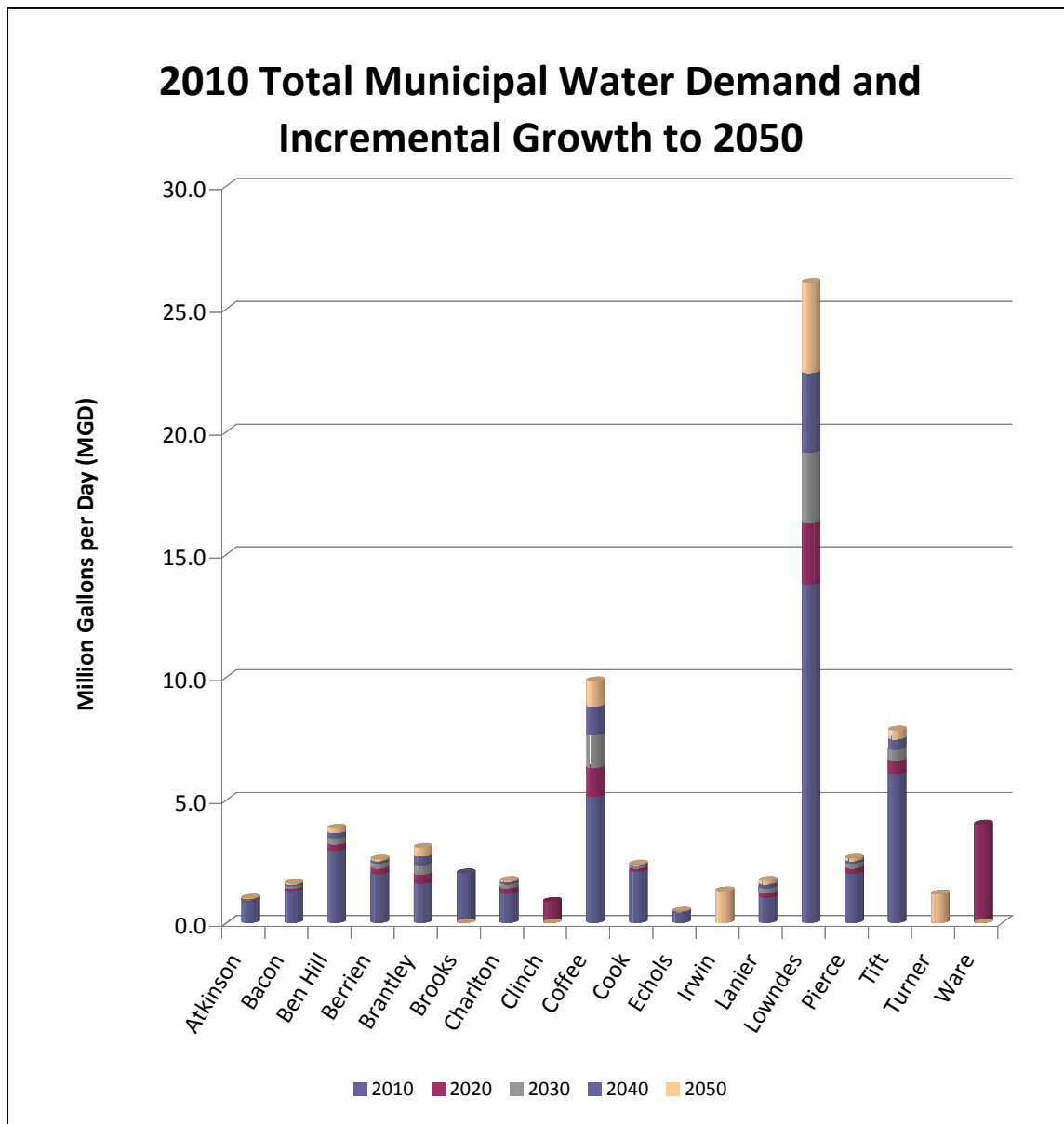
2010 Municipal Water Demand by County



2050 Municipal Water Demand by County



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SS2.1 Total Publicly- Supplied Water Demand (mgd), AAD

COUNTY	2010	2020	2030	2040	2050
Atkinson	0.43	0.45	0.47	0.49	0.50
Bacon	0.59	0.64	0.68	0.72	0.75
Ben Hill	2.56	2.79	3.02	3.21	3.39
Berrien	1.04	1.16	1.27	1.33	1.36
Brantley	0.21	0.26	0.31	0.35	0.40
Brooks	0.98	1.02	1.04	1.03	1.02
Charlton	0.57	0.66	0.74	0.78	0.81
Clinch	0.50	0.49	0.48	0.47	0.46
Coffee	2.68	3.30	4.02	4.64	5.22
Cook	1.37	1.45	1.51	1.55	1.58
Echols	0.08	0.09	0.09	0.10	0.10
Irwin	0.58	0.60	0.62	0.62	0.63
Lanier	0.51	0.61	0.71	0.79	0.87
Lowndes	11.89	14.05	16.55	19.36	22.57
Pierce	0.67	0.74	0.81	0.85	0.89
Tift	4.85	5.26	5.65	6.00	6.31
Turner	0.86	0.85	0.85	0.85	0.85
Ware	3.48	3.38	3.31	3.24	3.15
Grand Total	33.83	37.80	42.10	46.38	50.85

SS2.2 Public Supply Surface Water Demand (mgd), AAD

COUNTY	2010	2020	2030	2040	2050
Atkinson	0.00	0.00	0.00	0.00	0.00
Bacon	0.00	0.00	0.00	0.00	0.00
Ben Hill	0.00	0.00	0.00	0.00	0.00
Berrien	0.00	0.00	0.00	0.00	0.00
Brantley	0.00	0.00	0.00	0.00	0.00
Brooks	0.00	0.00	0.00	0.00	0.00
Charlton	0.00	0.00	0.00	0.00	0.00
Clinch	0.00	0.00	0.00	0.00	0.00
Coffee	0.00	0.00	0.00	0.00	0.00
Cook	0.00	0.00	0.00	0.00	0.00
Echols	0.00	0.00	0.00	0.00	0.00
Irwin	0.00	0.00	0.00	0.00	0.00
Lanier	0.00	0.00	0.00	0.00	0.00
Lowndes	0.00	0.00	0.00	0.00	0.00
Pierce	0.00	0.00	0.00	0.00	0.00
Tift	0.00	0.00	0.00	0.00	0.00
Turner	0.00	0.00	0.00	0.00	0.00
Ware	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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SS2.2.1 Public Supply Water Demand Percent Surface Water

COUNTY	2010	2020	2030	2040	2050
Atkinson	0%	0%	0%	0%	0%
Bacon	0%	0%	0%	0%	0%
Ben Hill	0%	0%	0%	0%	0%
Berrien	0%	0%	0%	0%	0%
Brantley	0%	0%	0%	0%	0%
Brooks	0%	0%	0%	0%	0%
Charlton	0%	0%	0%	0%	0%
Clinch	0%	0%	0%	0%	0%
Coffee	0%	0%	0%	0%	0%
Cook	0%	0%	0%	0%	0%
Echols	0%	0%	0%	0%	0%
Irwin	0%	0%	0%	0%	0%
Lanier	0%	0%	0%	0%	0%
Lowndes	0%	0%	0%	0%	0%
Pierce	0%	0%	0%	0%	0%
Tift	0%	0%	0%	0%	0%
Turner	0%	0%	0%	0%	0%
Ware	0%	0%	0%	0%	0%
Grand Total	0%	0%	0%	0%	0%

SS2.3 Public Supply Groundwater Demand (mgd), AAD

COUNTY	2010	2020	2030	2040	2050
Atkinson	0.43	0.45	0.47	0.49	0.50
Bacon	0.59	0.64	0.68	0.72	0.75
Ben Hill	2.56	2.79	3.02	3.21	3.39
Berrien	1.04	1.16	1.27	1.33	1.36
Brantley	0.21	0.26	0.31	0.35	0.40
Brooks	0.98	1.02	1.04	1.03	1.02
Charlton	0.57	0.66	0.74	0.78	0.81
Clinch	0.50	0.49	0.48	0.47	0.46
Coffee	2.68	3.30	4.02	4.64	5.22
Cook	1.37	1.45	1.51	1.55	1.58
Echols	0.08	0.09	0.09	0.10	0.10
Irwin	0.58	0.60	0.62	0.62	0.63
Lanier	0.51	0.61	0.71	0.79	0.87
Lowndes	11.89	14.05	16.55	19.36	22.57
Pierce	0.67	0.74	0.81	0.85	0.89
Tift	4.85	5.26	5.65	6.00	6.31
Turner	0.86	0.85	0.85	0.85	0.85
Ware	3.48	3.38	3.31	3.24	3.15
Grand Total	33.83	37.80	42.10	46.38	50.85

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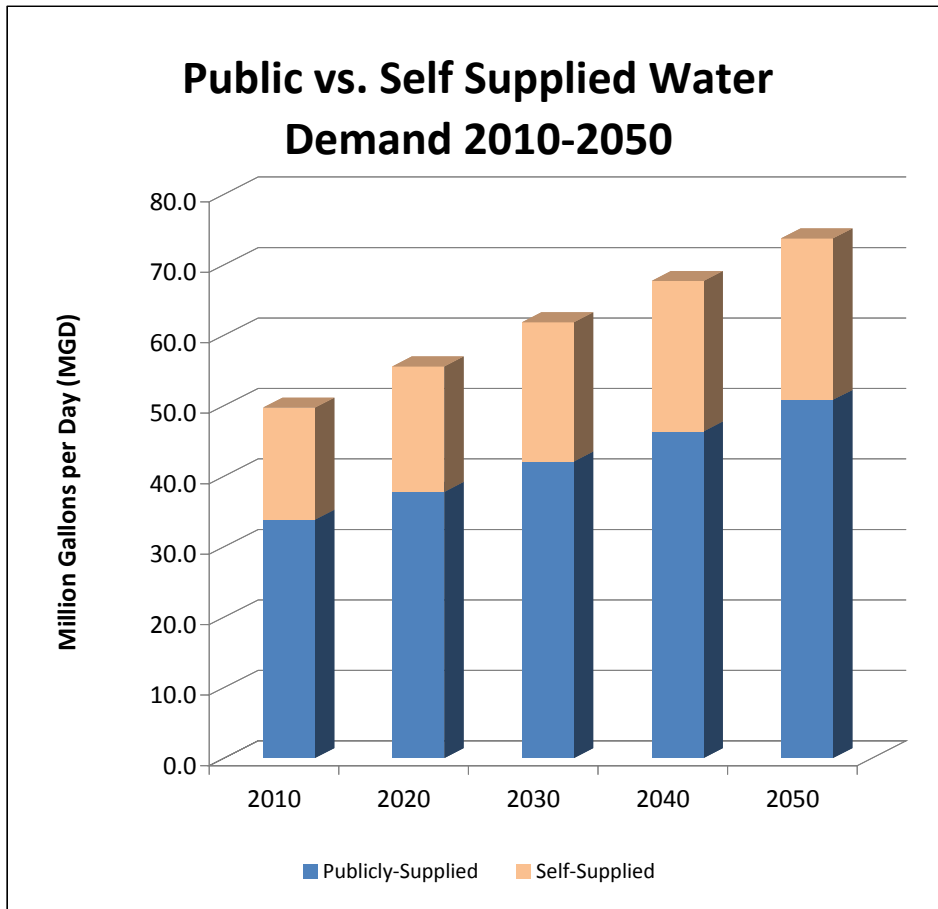
SS2.3.1 Public Supply Water Demand Percent Groundwater

COUNTY	2010	2020	2030	2040	2050
Atkinson	100%	100%	100%	100%	100%
Bacon	100%	100%	100%	100%	100%
Ben Hill	100%	100%	100%	100%	100%
Berrien	100%	100%	100%	100%	100%
Brantley	100%	100%	100%	100%	100%
Brooks	100%	100%	100%	100%	100%
Charlton	100%	100%	100%	100%	100%
Clinch	100%	100%	100%	100%	100%
Coffee	100%	100%	100%	100%	100%
Cook	100%	100%	100%	100%	100%
Echols	100%	100%	100%	100%	100%
Irwin	100%	100%	100%	100%	100%
Lanier	100%	100%	100%	100%	100%
Lowndes	100%	100%	100%	100%	100%
Pierce	100%	100%	100%	100%	100%
Tift	100%	100%	100%	100%	100%
Turner	100%	100%	100%	100%	100%
Ware	100%	100%	100%	100%	100%
Grand Total	100%	100%	100%	100%	100%

SS2.4 Self Supply Groundwater Demand (mgd), AAD

COUNTY	2010	2020	2030	2040	2050
Atkinson	0.44	0.46	0.47	0.49	0.51
Bacon	0.72	0.77	0.81	0.84	0.87
Ben Hill	0.38	0.41	0.44	0.46	0.47
Berrien	0.96	1.07	1.16	1.20	1.23
Brantley	1.39	1.72	2.06	2.36	2.68
Brooks	0.95	0.98	0.99	0.98	0.96
Charlton	0.66	0.76	0.84	0.89	0.92
Clinch	0.37	0.37	0.35	0.34	0.34
Coffee	2.47	3.01	3.63	4.16	4.64
Cook	0.73	0.77	0.79	0.81	0.81
Echols	0.33	0.35	0.36	0.37	0.37
Irwin	0.65	0.67	0.67	0.67	0.67
Lanier	0.53	0.62	0.71	0.79	0.86
Lowndes	1.89	2.23	2.60	3.03	3.51
Pierce	1.35	1.49	1.61	1.68	1.75
Tift	1.24	1.33	1.41	1.48	1.54
Turner	0.31	0.31	0.30	0.30	0.30
Ware	0.54	0.52	0.51	0.50	0.48
Grand Total	15.90	17.81	19.75	21.37	22.90

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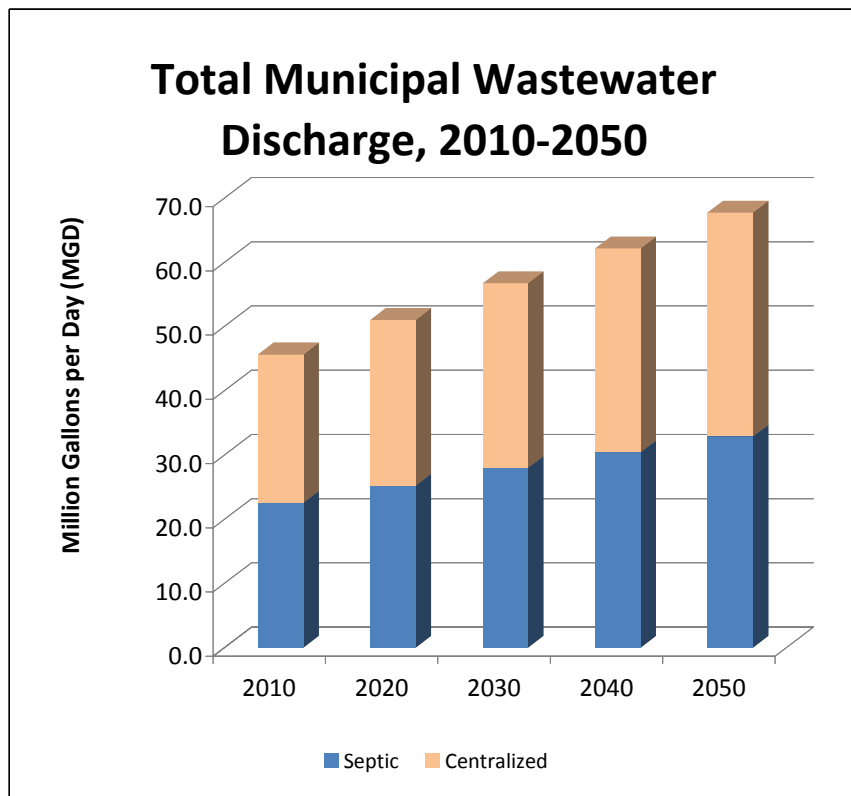
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Draft March 2010 Municipal Wastewater Demand Forecasts for the Suwannee-Satilla Water Planning Region

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SS3. Total Municipal Wastewater Produced (mgd), max monthly demand

COUNTY	2010	2020	2030	2040	2050
Atkinson	0.76	0.80	0.82	0.86	0.88
Bacon	1.21	1.30	1.39	1.45	1.49
Ben Hill	2.63	2.87	3.09	3.28	3.46
Berrien	1.90	2.11	2.31	2.40	2.47
Brantley	1.24	1.53	1.82	2.09	2.37
Brooks	1.74	1.81	1.83	1.82	1.79
Charlton	1.08	1.24	1.39	1.46	1.52
Clinch	0.82	0.81	0.79	0.77	0.76
Coffee	4.22	5.18	6.27	7.22	8.09
Cook	1.96	2.08	2.16	2.21	2.24
Echols	0.34	0.36	0.37	0.38	0.38
Irwin	1.16	1.20	1.22	1.23	1.22
Lanier	0.91	1.08	1.25	1.39	1.52
Lowndes	13.50	15.94	18.76	21.94	25.56
Pierce	1.82	2.01	2.19	2.29	2.38
Tift	5.53	5.99	6.42	6.81	7.14
Turner	1.13	1.12	1.12	1.11	1.11
Ware	3.69	3.59	3.51	3.43	3.34
Grand Total	45.64	51.02	56.71	62.15	67.74



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SS3.1 Municipal Septic Wastewater (mgd), max month

COUNTY	2010	2020	2030	2040	2050
Atkinson	0.54	0.57	0.58	0.61	0.63
Bacon	0.63	0.67	0.71	0.74	0.76
Ben Hill	1.30	1.41	1.52	1.61	1.70
Berrien	1.07	1.18	1.29	1.34	1.37
Brantley	1.22	1.51	1.80	2.07	2.35
Brooks	1.13	1.17	1.18	1.17	1.15
Charlton	0.87	1.00	1.12	1.17	1.22
Clinch	0.32	0.32	0.31	0.30	0.29
Coffee	2.69	3.30	3.99	4.58	5.12
Cook	0.89	0.94	0.97	0.99	1.00
Echols	0.34	0.36	0.37	0.38	0.38
Irwin	0.61	0.63	0.64	0.64	0.63
Lanier	0.72	0.84	0.98	1.09	1.19
Lowndes	4.43	5.23	6.15	7.18	8.34
Pierce	1.53	1.69	1.83	1.91	1.99
Tift	2.28	2.46	2.63	2.78	2.91
Turner	0.45	0.44	0.44	0.44	0.44
Ware	1.54	1.50	1.46	1.43	1.39
Grand Total	22.55	25.22	27.97	30.43	32.85

SS3.2 Municipal Septic Wastewater (% of wastewater flow)

COUNTY	2010	2020	2030	2040	2050
Atkinson	71%	71%	71%	71%	71%
Bacon	52%	52%	51%	51%	51%
Ben Hill	49%	49%	49%	49%	49%
Berrien	56%	56%	56%	56%	56%
Brantley	99%	99%	99%	99%	99%
Brooks	65%	65%	64%	64%	64%
Charlton	80%	80%	80%	80%	80%
Clinch	39%	39%	39%	39%	38%
Coffee	64%	64%	64%	63%	63%
Cook	45%	45%	45%	45%	45%
Echols	100%	100%	100%	100%	100%
Irwin	53%	52%	52%	52%	52%
Lanier	78%	78%	78%	78%	78%
Lowndes	33%	33%	33%	33%	33%
Pierce	84%	84%	84%	84%	84%
Tift	41%	41%	41%	41%	41%
Turner	40%	40%	39%	39%	39%
Ware	42%	42%	42%	42%	42%
Grand Total	49%	49%	49%	49%	49%

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SS3.3 Municipal Centralized Wastewater (mgd), max month

COUNTY	2010	2020	2030	2040	2050
Atkinson	0.22	0.23	0.24	0.25	0.26
Bacon	0.58	0.63	0.67	0.71	0.73
Ben Hill	1.33	1.45	1.57	1.67	1.76
Berrien	0.83	0.93	1.02	1.06	1.09
Brantley	0.02	0.02	0.02	0.03	0.03
Brooks	0.61	0.64	0.65	0.65	0.64
Charlton	0.21	0.24	0.27	0.29	0.30
Clinch	0.50	0.50	0.48	0.47	0.47
Coffee	1.52	1.88	2.28	2.64	2.97
Cook	1.07	1.14	1.19	1.22	1.24
Echols	0.00	0.00	0.00	0.00	0.00
Irwin	0.55	0.57	0.59	0.59	0.59
Lanier	0.20	0.23	0.27	0.30	0.33
Lowndes	9.06	10.71	12.62	14.77	17.22
Pierce	0.30	0.33	0.36	0.37	0.39
Tift	3.25	3.53	3.79	4.02	4.23
Turner	0.68	0.68	0.68	0.67	0.68
Ware	2.15	2.09	2.04	2.00	1.95
Grand Total	23.09	25.80	28.74	31.72	34.88

SS3.4 Municipal Centralized Wastewater (% of wastewater flow)

COUNTY	2010	2020	2030	2040	2050
Atkinson	29%	29%	29%	29%	29%
Bacon	48%	48%	49%	49%	49%
Ben Hill	51%	51%	51%	51%	51%
Berrien	44%	44%	44%	44%	44%
Brantley	1%	1%	1%	1%	1%
Brooks	35%	35%	36%	36%	36%
Charlton	20%	20%	20%	20%	20%
Clinch	61%	61%	61%	61%	62%
Coffee	36%	36%	36%	37%	37%
Cook	55%	55%	55%	55%	55%
Echols	0%	0%	0%	0%	0%
Irwin	47%	48%	48%	48%	48%
Lanier	22%	22%	22%	22%	22%
Lowndes	67%	67%	67%	67%	67%
Pierce	16%	16%	16%	16%	16%
Tift	59%	59%	59%	59%	59%
Turner	60%	60%	61%	61%	61%
Ware	58%	58%	58%	58%	58%
Grand Total	51%	51%	51%	51%	51%

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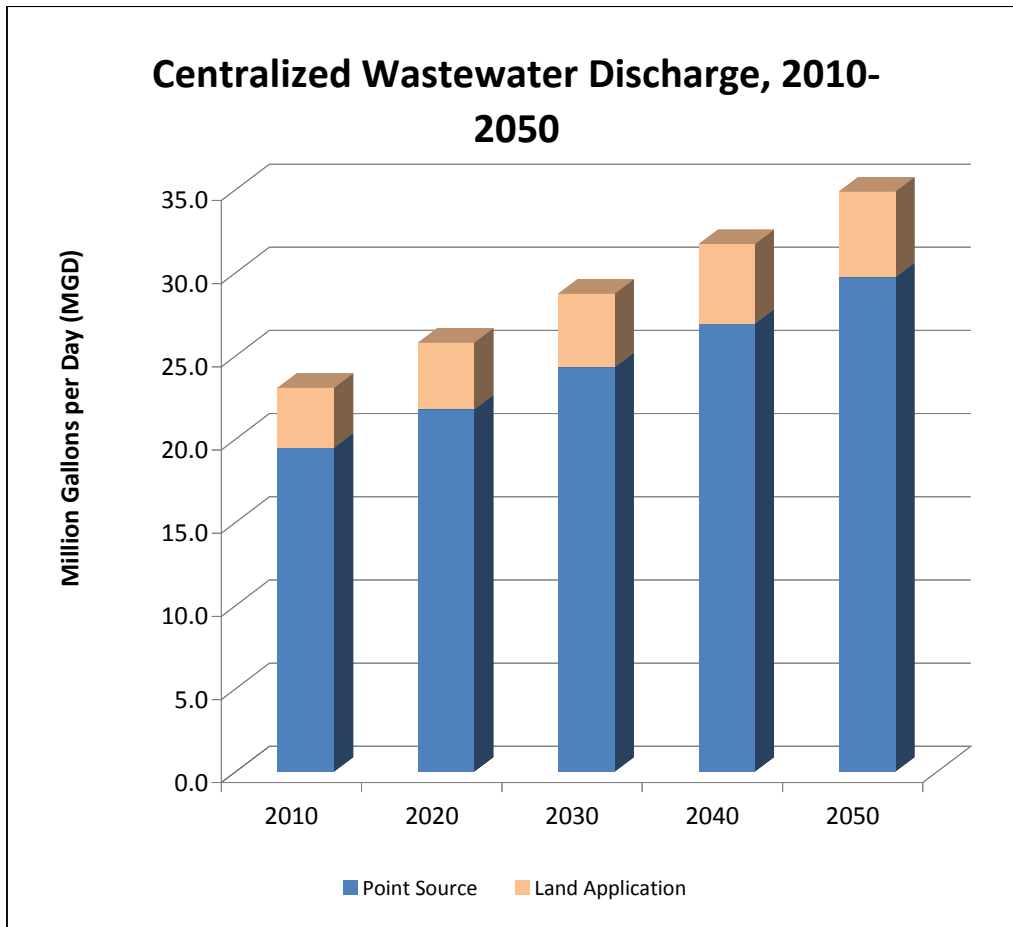
SS3.5 Municipal Centralized Wastewater, Point Source Discharge

COUNTY	2010	2020	2030	2040	2050
Atkinson	0.15	0.16	0.17	0.17	0.18
Bacon	0.58	0.63	0.67	0.71	0.73
Ben Hill	1.26	1.37	1.48	1.58	1.67
Berrien	0.10	0.11	0.12	0.13	0.13
Brantley	0.00	0.00	0.00	0.00	0.00
Brooks	0.00	0.00	0.00	0.00	0.00
Charlton	0.21	0.24	0.27	0.29	0.30
Clinch	0.50	0.50	0.48	0.47	0.47
Coffee	1.39	1.71	2.08	2.41	2.71
Cook	1.07	1.14	1.19	1.22	1.24
Echols	0.00	0.00	0.00	0.00	0.00
Irwin	0.00	0.00	0.00	0.00	0.00
Lanier	0.20	0.23	0.27	0.30	0.33
Lowndes	7.98	9.44	11.11	13.01	15.16
Pierce	0.04	0.04	0.04	0.05	0.05
Tift	3.19	3.47	3.72	3.95	4.16
Turner	0.65	0.65	0.65	0.65	0.65
Ware	2.15	2.09	2.04	2.00	1.95
Grand Total	19.48	21.78	24.32	26.93	29.73

SS3.6 Municipal Centralized Wastewater, Land Application Discharge

COUNTY	2010	2020	2030	2040	2050
Atkinson	0.07	0.07	0.07	0.08	0.08
Bacon	0.00	0.00	0.00	0.00	0.00
Ben Hill	0.07	0.08	0.09	0.09	0.10
Berrien	0.73	0.82	0.90	0.94	0.96
Brantley	0.02	0.02	0.02	0.03	0.03
Brooks	0.61	0.64	0.65	0.65	0.64
Charlton	0.00	0.00	0.00	0.00	0.00
Clinch	0.00	0.00	0.00	0.00	0.00
Coffee	0.13	0.16	0.20	0.23	0.26
Cook	0.00	0.00	0.00	0.00	0.00
Echols	0.00	0.00	0.00	0.00	0.00
Irwin	0.55	0.57	0.59	0.59	0.59
Lanier	0.00	0.00	0.00	0.00	0.00
Lowndes	1.08	1.28	1.50	1.76	2.05
Pierce	0.26	0.29	0.31	0.33	0.34
Tift	0.06	0.06	0.07	0.07	0.07
Turner	0.03	0.03	0.03	0.03	0.03
Ware	0.00	0.00	0.00	0.00	0.00
Grand Total	3.61	4.02	4.43	4.79	5.16

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