

## Draft March 2010 Municipal Water Demand Forecasts for the Upper Oconee (UOC) Water Planning Region

### UOC1. Municipal Per Capita Water Use Rate

COUNTY	Public Supplied <sup>1</sup>	Base Year	Self Supplied <sup>2</sup>
Baldwin	140	2005	75
Barrow	170	2005	75
Clarke	157	2006	75
Greene	122	2005	75
Hancock	151	2005	75
Jackson	111	2005	75
Laurens	156	2005	75
Morgan	164	2005	75
Oconee	142	2006	75
Putnam	125	2005	75
Walton	112	2005	75
Washington	271	2005	75
Wilkinson	132	2005	75

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

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

### UOC2. Total Municipal Water Demand (mgd), Average Annual Demand (AAD)

COUNTY	2010	2020	2030	2040	2050
Baldwin	6.66	7.43	8.18	8.90	9.64
Barrow	9.49	13.33	18.46	23.48	28.00
Clarke	18.39	20.22	22.34	24.58	26.99
Greene	1.81	2.28	2.78	3.28	3.69
Hancock	1.17	1.22	1.24	1.28	1.34
Jackson	7.22	9.72	13.02	17.41	23.22
Laurens	5.80	6.51	7.20	7.86	8.52
Morgan	2.25	2.82	3.46	4.15	4.79
Oconee	3.98	5.47	7.35	9.84	13.25
Putnam	2.21	2.56	2.90	3.24	3.60
Walton	8.67	11.09	14.03	16.68	19.00
Washington	3.86	4.15	4.31	4.43	4.63
Wilkinson	1.15	1.16	1.14	1.14	1.13
<b>Grand Total</b>	<b>72.68</b>	<b>87.95</b>	<b>106.41</b>	<b>126.28</b>	<b>147.81</b>

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4/9/2010

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**UOC2.1 Total Public Supply Water Demand (mgd), AAD**

<b>COUNTY</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>
Baldwin	6.62	7.39	8.13	8.85	9.59
Barrow	6.83	9.63	13.39	17.09	20.46
Clarke	18.37	20.20	22.32	24.56	26.96
Greene	1.51	1.90	2.33	2.75	3.11
Hancock	0.91	0.95	0.97	1.01	1.06
Jackson	6.97	9.38	12.57	16.81	22.43
Laurens	4.08	4.61	5.12	5.63	6.14
Morgan	1.47	1.84	2.28	2.75	3.20
Oconee	2.95	4.06	5.47	7.36	9.94
Putnam	1.58	1.84	2.09	2.34	2.61
Walton	5.52	7.09	9.00	10.73	12.26
Washington	3.12	3.37	3.52	3.64	3.83
Wilkinson	0.92	0.93	0.92	0.92	0.91
<b>Grand Total</b>	<b>60.87</b>	<b>73.20</b>	<b>88.11</b>	<b>104.44</b>	<b>122.50</b>

**UOC2.2 Public Supply Surface Water Demand (mgd), AAD**

<b>COUNTY</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>
Baldwin	6.62	7.39	8.13	8.85	9.59
Barrow	6.22	8.76	12.18	15.56	18.62
Clarke	18.19	20.00	22.10	24.31	26.69
Greene	1.13	1.43	1.74	2.06	2.33
Hancock	0.91	0.95	0.97	1.01	1.06
Jackson	6.27	8.44	11.31	15.13	20.19
Laurens	3.43	3.87	4.30	4.73	5.15
Morgan	1.47	1.84	2.28	2.75	3.20
Oconee	2.59	3.58	4.82	6.47	8.74
Putnam	1.00	1.16	1.32	1.48	1.64
Walton	5.52	7.09	9.00	10.73	12.26
Washington	0.00	0.00	0.00	0.00	0.00
Wilkinson	0.00	0.00	0.00	0.00	0.00
<b>Grand Total</b>	<b>53.35</b>	<b>64.50</b>	<b>78.15</b>	<b>93.07</b>	<b>109.48</b>

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4/9/2010

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**UOC2.3 Public Supply Groundwater Demand (mgd), AAD**

COUNTY	2010	2020	2030	2040	2050
Baldwin	0.00	0.00	0.00	0.00	0.00
Barrow	0.61	0.87	1.20	1.54	1.84
Clarke	0.18	0.20	0.22	0.25	0.27
Greene	0.38	0.48	0.58	0.69	0.78
Hancock	0.00	0.00	0.00	0.00	0.00
Jackson	0.70	0.94	1.26	1.68	2.24
Laurens	0.65	0.74	0.82	0.90	0.98
Morgan	0.00	0.00	0.00	0.00	0.00
Oconee	0.35	0.49	0.66	0.88	1.19
Putnam	0.59	0.68	0.77	0.87	0.97
Walton	0.00	0.00	0.00	0.00	0.00
Washington	3.12	3.37	3.52	3.64	3.83
Wilkinson	0.92	0.93	0.92	0.92	0.91
<b>Grand Total</b>	<b>7.52</b>	<b>8.69</b>	<b>9.96</b>	<b>11.37</b>	<b>13.02</b>

**UOC2.4 Self Supply Groundwater Demand (mgd), AAD**

COUNTY	2010	2020	2030	2040	2050
Baldwin	0.04	0.04	0.05	0.05	0.05
Barrow	2.66	3.70	5.07	6.39	7.54
Clarke	0.02	0.02	0.02	0.02	0.03
Greene	0.30	0.37	0.45	0.53	0.59
Hancock	0.26	0.27	0.27	0.27	0.28
Jackson	0.25	0.34	0.45	0.60	0.79
Laurens	1.72	1.90	2.07	2.23	2.38
Morgan	0.79	0.97	1.18	1.40	1.60
Oconee	1.03	1.41	1.88	2.49	3.32
Putnam	0.63	0.72	0.81	0.90	0.99
Walton	3.14	4.00	5.03	5.95	6.74
Washington	0.74	0.78	0.79	0.79	0.81
Wilkinson	0.23	0.23	0.22	0.22	0.21
<b>Grand Total</b>	<b>11.81</b>	<b>14.76</b>	<b>18.30</b>	<b>21.84</b>	<b>25.31</b>

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4/9/2010

## Draft March 2010 Municipal Wastewater Demand Forecasts for the Upper Oconee (UOC) Water Planning Region

### UOC3. Total Municipal Wastewater Produced (mgd), max monthly demand

COUNTY	2010	2020	2030	2040	2050
Baldwin	5.48	6.12	6.73	7.33	7.93
Barrow	7.86	11.04	15.29	19.46	23.21
Clarke	18.61	20.47	22.62	24.88	27.32
Greene	1.63	2.05	2.50	2.95	3.32
Hancock	1.01	1.05	1.07	1.10	1.16
Jackson	6.29	8.47	11.45	15.30	20.42
Laurens	5.34	5.99	6.63	7.24	7.85
Morgan	1.98	2.48	3.05	3.66	4.22
Oconee	3.11	4.31	5.82	7.86	10.66
Putnam	1.90	2.20	2.49	2.79	3.09
Walton	7.62	9.75	12.34	14.68	16.72
Washington	3.62	3.89	4.04	4.16	4.35
Wilkinson	1.03	1.04	1.02	1.02	1.01
<b>Grand Total</b>	<b>65.49</b>	<b>78.85</b>	<b>95.05</b>	<b>112.43</b>	<b>131.27</b>

### UOC3.1 Municipal Septic Wastewater (mgd), max month

COUNTY	2010	2020	2030	2040	2050
Baldwin	3.34	3.73	4.10	4.47	4.84
Barrow	5.73	8.04	11.12	14.13	16.83
Clarke	7.37	8.11	8.96	9.86	10.82
Greene	0.86	1.07	1.31	1.54	1.74
Hancock	0.93	0.97	0.99	1.02	1.07
Jackson	4.23	5.69	7.10	9.49	12.66
Laurens	2.88	3.22	3.54	3.85	4.16
Morgan	1.57	1.96	2.41	2.88	3.33
Oconee	2.84	3.74	4.81	6.16	7.91
Putnam	1.36	1.58	1.78	1.99	2.21
Walton	4.94	6.31	7.98	9.47	10.77
Washington	0.71	0.75	0.76	0.77	0.78
Wilkinson	0.84	0.84	0.83	0.83	0.82
<b>Grand Total</b>	<b>37.60</b>	<b>46.01</b>	<b>55.70</b>	<b>66.46</b>	<b>77.92</b>

### UOC3.2 Municipal Septic Wastewater (% of wastewater flow)

COUNTY	2010	2020	2030	2040	2050
Baldwin	61%	61%	61%	61%	61%
Barrow	73%	73%	73%	73%	73%
Clarke	40%	40%	40%	40%	40%
Greene	53%	53%	52%	52%	52%
Hancock	92%	92%	92%	92%	92%
Jackson	67%	67%	62%	62%	62%
Laurens	54%	54%	53%	53%	53%
Morgan	79%	79%	79%	79%	79%
Oconee	91%	87%	83%	78%	74%
Putnam	72%	72%	72%	72%	71%
Walton	65%	65%	65%	65%	64%
Washington	20%	19%	19%	18%	18%
Wilkinson	81%	81%	81%	81%	81%
<b>Grand Total</b>	<b>57%</b>	<b>58%</b>	<b>59%</b>	<b>59%</b>	<b>59%</b>

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4/9/2010

**UOC3.3 Municipal Centralized Wastewater (mgd), max month**

COUNTY	2010	2020	2030	2040	2050
Baldwin	2.14	2.39	2.63	2.86	3.10
Barrow	2.13	3.00	4.17	5.33	6.38
Clarke	11.24	12.36	13.66	15.02	16.50
Greene	0.77	0.97	1.19	1.40	1.59
Hancock	0.08	0.08	0.08	0.09	0.09
Jackson	2.07	2.78	4.35	5.81	7.76
Laurens	2.46	2.78	3.09	3.39	3.70
Morgan	0.41	0.52	0.64	0.77	0.90
Oconee	0.27	0.56	1.01	1.70	2.75
Putnam	0.54	0.62	0.71	0.79	0.88
Walton	2.68	3.44	4.36	5.21	5.95
Washington	2.91	3.14	3.28	3.39	3.57
Wilkinson	0.19	0.19	0.19	0.19	0.19
<b>Grand Total</b>	<b>27.89</b>	<b>32.84</b>	<b>39.36</b>	<b>45.97</b>	<b>53.35</b>

**UOC3.4 Municipal Centralized Wastewater (% of wastewater flow)**

COUNTY	2010	2020	2030	2040	2050
Baldwin	39%	39%	39%	39%	39%
Barrow	27%	27%	27%	27%	27%
Clarke	60%	60%	60%	60%	60%
Greene	47%	47%	48%	48%	48%
Hancock	8%	8%	8%	8%	8%
Jackson	33%	33%	38%	38%	38%
Laurens	46%	46%	47%	47%	47%
Morgan	21%	21%	21%	21%	21%
Oconee	9%	13%	17%	22%	26%
Putnam	28%	28%	28%	28%	29%
Walton	35%	35%	35%	35%	36%
Washington	80%	81%	81%	82%	82%
Wilkinson	19%	19%	19%	19%	19%
<b>Grand Total</b>	<b>43%</b>	<b>42%</b>	<b>41%</b>	<b>41%</b>	<b>41%</b>

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