

# Draft March 2010 Municipal Water Demand Forecasts for the Middle Ocmulgee Water Planning Region

**Table 1. Municipal Per Capita Water Use Rate (gpcd)**

COUNTY	Public Supplied <sup>1, 3</sup>	Base Year	Self Supplied <sup>2, 3</sup>
Bibb	177	2005	75
Butts	120	2005	75
Crawford	101	2005	75
Houston	168	2005	75
Jasper	138	2005	75
Jones	90	2005	75
Lamar	188	2005	75
Monroe	179	2005	75
Newton	99	2005	75
Peach	126	2005	75
Pulaski	89	2005	75
Twiggs	125	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

3 gpcd = gallons per day per person

**Table 2. Total Municipal Water Demand (mgd), Average Annual Demand (AAD)**

COUNTY	2010	2020	2030	2040	2050
Bibb	25.14	26.28	27.45	28.49	29.58
Butts	2.88	3.78	4.90	6.34	8.21
Crawford	1.04	1.24	1.43	1.60	1.78
Houston	22.81	26.66	30.92	35.12	39.75
Jasper	1.42	1.92	2.53	3.16	3.81
Jones	2.37	2.98	3.63	4.09	4.41
Lamar	2.20	2.64	3.14	3.73	4.42
Monroe	2.95	3.76	4.69	5.60	6.42
Newton	9.78	14.25	20.44	27.04	33.00
Peach	3.05	3.54	4.09	4.56	5.09
Pulaski	0.83	0.91	0.97	1.02	1.05
Twiggs	0.90	1.01	1.09	1.09	1.07
<b>Grand Total</b>	<b>75.38</b>	<b>88.97</b>	<b>105.27</b>	<b>121.84</b>	<b>138.60</b>

mgd = million gallons per day

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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# Draft March 2010 Municipal Water Demand Forecasts for the Middle Ocmulgee Water Planning Region

Table 2.1 Total Public Supply Water Demand (mgd), AAD

COUNTY	2010	2020	2030	2040	2050
Bibb	23.27	24.36	25.46	26.46	27.49
Butts	2.53	3.32	4.31	5.58	7.23
Crawford	0.28	0.33	0.39	0.43	0.49
Houston	22.54	26.34	30.55	34.71	39.29
Jasper	0.68	0.93	1.23	1.54	1.87
Jones	1.21	1.52	1.86	2.09	2.26
Lamar	1.46	1.76	2.11	2.51	2.98
Monroe	1.65	2.11	2.64	3.17	3.64
Newton	7.28	10.61	15.23	20.15	24.60
Peach	2.41	2.80	3.23	3.61	4.04
Pulaski	0.54	0.59	0.63	0.66	0.68
Twiggs	0.30	0.34	0.37	0.37	0.37
<b>Grand Total</b>	<b>64.14</b>	<b>75.02</b>	<b>88.00</b>	<b>101.28</b>	<b>114.92</b>

mgd = million gallons per day

Table 2.2 Public Supply Surface Water Demand (mgd), AAD

COUNTY	2010	2020	2030	2040	2050
Bibb	23.27	24.36	25.46	26.46	27.49
Butts	2.53	3.32	4.31	5.58	7.23
Crawford	0.00	0.00	0.00	0.00	0.00
Houston	0.00	0.00	0.00	0.00	0.00
Jasper	0.52	0.71	0.95	1.18	1.43
Jones	1.15	1.45	1.76	1.99	2.15
Lamar	1.46	1.76	2.11	2.51	2.98
Monroe	1.65	2.11	2.64	3.17	3.64
Newton	7.28	10.61	15.23	20.15	24.60
Peach	0.00	0.00	0.00	0.00	0.00
Pulaski	0.00	0.00	0.00	0.00	0.00
Twiggs	0.00	0.00	0.00	0.00	0.00
<b>Grand Total</b>	<b>37.86</b>	<b>44.32</b>	<b>52.45</b>	<b>61.03</b>	<b>69.52</b>

mgd = million gallons per day

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# Draft March 2010 Municipal Water Demand Forecasts for the Middle Ocmulgee Water Planning Region

Table 2.3 Public Supply Groundwater Demand (mgd), AAD

COUNTY	2010	2020	2030	2040	2050
Bibb	0.00	0.00	0.00	0.00	0.00
Butts	0.00	0.00	0.00	0.00	0.00
Crawford	0.28	0.33	0.39	0.43	0.49
Houston	22.54	26.34	30.55	34.71	39.29
Jasper	0.16	0.22	0.29	0.36	0.43
Jones	0.06	0.08	0.09	0.10	0.11
Lamar	0.00	0.00	0.00	0.00	0.00
Monroe	0.00	0.00	0.00	0.00	0.00
Newton	0.00	0.00	0.00	0.00	0.00
Peach	2.41	2.80	3.23	3.61	4.04
Pulaski	0.54	0.59	0.63	0.66	0.68
Twiggs	0.30	0.34	0.37	0.37	0.37
<b>Grand Total</b>	<b>26.28</b>	<b>30.69</b>	<b>35.55</b>	<b>40.25</b>	<b>45.40</b>

mgd = million gallons per day

Table 2.4 Self Supply Groundwater Demand (mgd), AAD

COUNTY	2010	2020	2030	2040	2050
Bibb	1.87	1.92	1.98	2.03	2.09
Butts	0.35	0.46	0.59	0.76	0.99
Crawford	0.76	0.90	1.04	1.16	1.30
Houston	0.27	0.32	0.36	0.41	0.46
Jasper	0.73	0.99	1.30	1.62	1.95
Jones	1.16	1.46	1.78	2.00	2.16
Lamar	0.74	0.87	1.03	1.22	1.44
Monroe	1.30	1.65	2.05	2.44	2.78
Newton	2.51	3.64	5.22	6.89	8.40
Peach	0.64	0.74	0.85	0.95	1.05
Pulaski	0.30	0.33	0.35	0.36	0.37
Twiggs	0.60	0.67	0.72	0.72	0.70
<b>Grand Total</b>	<b>11.24</b>	<b>13.95</b>	<b>17.27</b>	<b>20.56</b>	<b>23.68</b>

mgd = million gallons per day

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## Draft March 2010 Municipal Wastewater Demand Forecasts for the Middle Ocmlgee Water Planning Region

Table 3. Total Municipal Wastewater Produced (mgd), Annual Average Day (AAD)

COUNTY	2010	2020	2030	2040	2050
Bibb	24.37	25.49	26.62	27.64	28.70
Butts	2.47	3.24	4.20	5.43	7.04
Crawford	0.96	1.14	1.32	1.47	1.64
Houston	22.08	25.81	29.93	34.01	38.48
Jasper	1.12	1.52	2.01	2.50	3.02
Jones	1.88	2.37	2.88	3.25	3.50
Lamar	2.00	2.40	2.86	3.39	4.03
Monroe	2.55	3.25	4.06	4.85	5.55
Newton	8.89	13.04	18.84	25.10	30.85
Peach	2.75	3.19	3.69	4.11	4.59
Pulaski	0.69	0.76	0.81	0.85	0.88
Twiggs	0.82	0.92	0.99	1.00	0.97
<b>Grand Total</b>	<b>70.60</b>	<b>83.13</b>	<b>98.20</b>	<b>113.60</b>	<b>129.27</b>

mgd = million gallons per day

Table 3.1 Municipal Septic Wastewater (mgd), AAD

COUNTY	2010	2020	2030	2040	2050
Bibb	1.53	1.57	1.62	1.66	1.71
Butts	1.96	2.58	3.34	4.32	5.59
Crawford	0.67	0.79	0.91	1.02	1.13
Houston	5.92	6.91	8.01	9.10	10.30
Jasper	0.94	1.27	1.68	2.09	2.52
Jones	1.54	1.94	2.36	2.65	2.86
Lamar	1.21	1.45	1.72	2.04	2.42
Monroe	2.29	2.91	3.63	4.34	4.97
Newton	4.59	6.21	8.24	10.00	11.12
Peach	1.39	1.61	1.85	2.06	2.30
Pulaski	0.38	0.41	0.44	0.46	0.47
Twiggs	0.63	0.71	0.76	0.76	0.75
<b>Grand Total</b>	<b>23.03</b>	<b>28.35</b>	<b>34.55</b>	<b>40.51</b>	<b>46.15</b>

mgd = million gallons per day

Table 3.2 Municipal Septic Wastewater (% of wastewater flow)

COUNTY	2010	2020	2030	2040	2050
Bibb	6%	6%	6%	6%	6%
Butts	80%	80%	80%	79%	79%
Crawford	69%	69%	69%	69%	69%
Houston	27%	27%	27%	27%	27%
Jasper	84%	84%	84%	84%	84%
Jones	82%	82%	82%	82%	82%
Lamar	61%	60%	60%	60%	60%
Monroe	90%	90%	89%	89%	89%
Newton	52%	48%	44%	40%	36%
Peach	50%	50%	50%	50%	50%
Pulaski	54%	54%	54%	54%	54%
Twiggs	77%	77%	77%	77%	77%
<b>Grand Total</b>	<b>33%</b>	<b>34%</b>	<b>35%</b>	<b>36%</b>	<b>36%</b>

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## Draft March 2010 Municipal Wastewater Demand Forecasts for the Middle Ocmlgee Water Planning Region

Table 3.3 Municipal Centralized Wastewater (mgd), AAD

COUNTY	2010	2020	2030	2040	2050
Bibb	22.84	23.92	25.00	25.97	26.99
Butts	0.51	0.66	0.86	1.11	1.44
Crawford	0.30	0.35	0.41	0.46	0.51
Houston	16.17	18.90	21.92	24.90	28.18
Jasper	0.18	0.25	0.33	0.41	0.50
Jones	0.34	0.43	0.53	0.59	0.64
Lamar	0.79	0.95	1.14	1.35	1.61
Monroe	0.27	0.34	0.43	0.51	0.59
Newton	4.30	6.83	10.61	15.10	19.73
Peach	1.36	1.59	1.83	2.05	2.29
Pulaski	0.32	0.35	0.38	0.39	0.41
Twiggs	0.19	0.21	0.23	0.23	0.23
<b>Grand Total</b>	<b>47.57</b>	<b>54.78</b>	<b>63.65</b>	<b>73.09</b>	<b>83.11</b>

mgd = million gallons per day

Table 3.4 Municipal Centralized Wastewater (% of wastewater flow)

COUNTY	2010	2020	2030	2040	2050
Bibb	94%	94%	94%	94%	94%
Butts	20%	20%	20%	21%	21%
Crawford	31%	31%	31%	31%	31%
Houston	73%	73%	73%	73%	73%
Jasper	16%	16%	16%	16%	16%
Jones	18%	18%	18%	18%	18%
Lamar	39%	40%	40%	40%	40%
Monroe	10%	10%	11%	11%	11%
Newton	48%	52%	56%	60%	64%
Peach	50%	50%	50%	50%	50%
Pulaski	46%	46%	46%	46%	46%
Twiggs	23%	23%	23%	23%	23%
<b>Grand Total</b>	<b>67%</b>	<b>66%</b>	<b>65%</b>	<b>64%</b>	<b>64%</b>

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